



Delaware Weekly Influenza Surveillance Report

Week 10 (March 6 - 12, 2011)
Delaware Division of Public Health

National Synopsis-2010-2011:

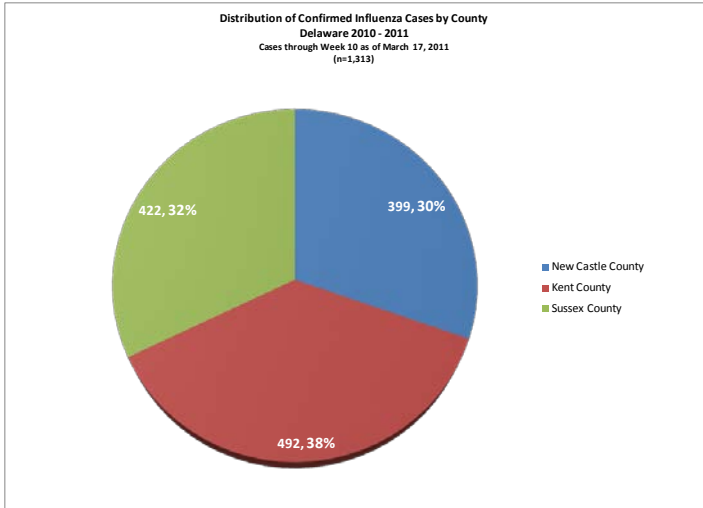
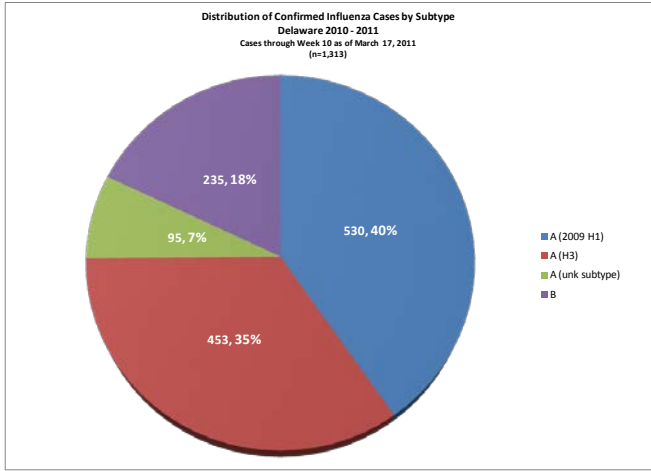
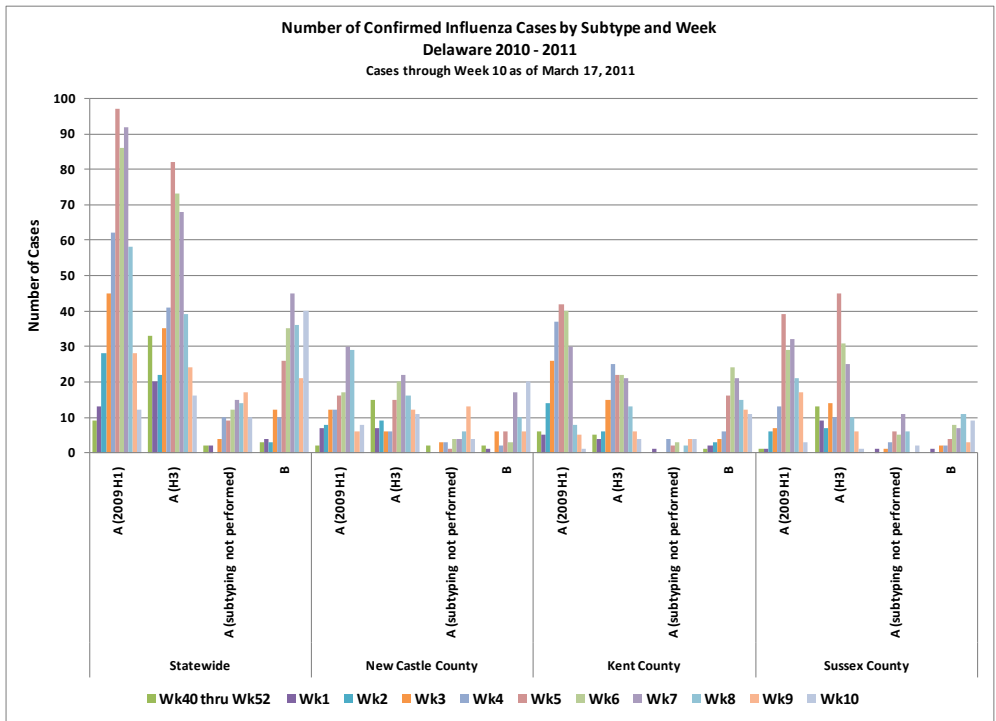
NOTE: National data is updated Friday of each week. Please visit <http://www.cdc.gov/flu/weekly/> for the most current information.

Delaware Influenza Surveillance-2010-2011:

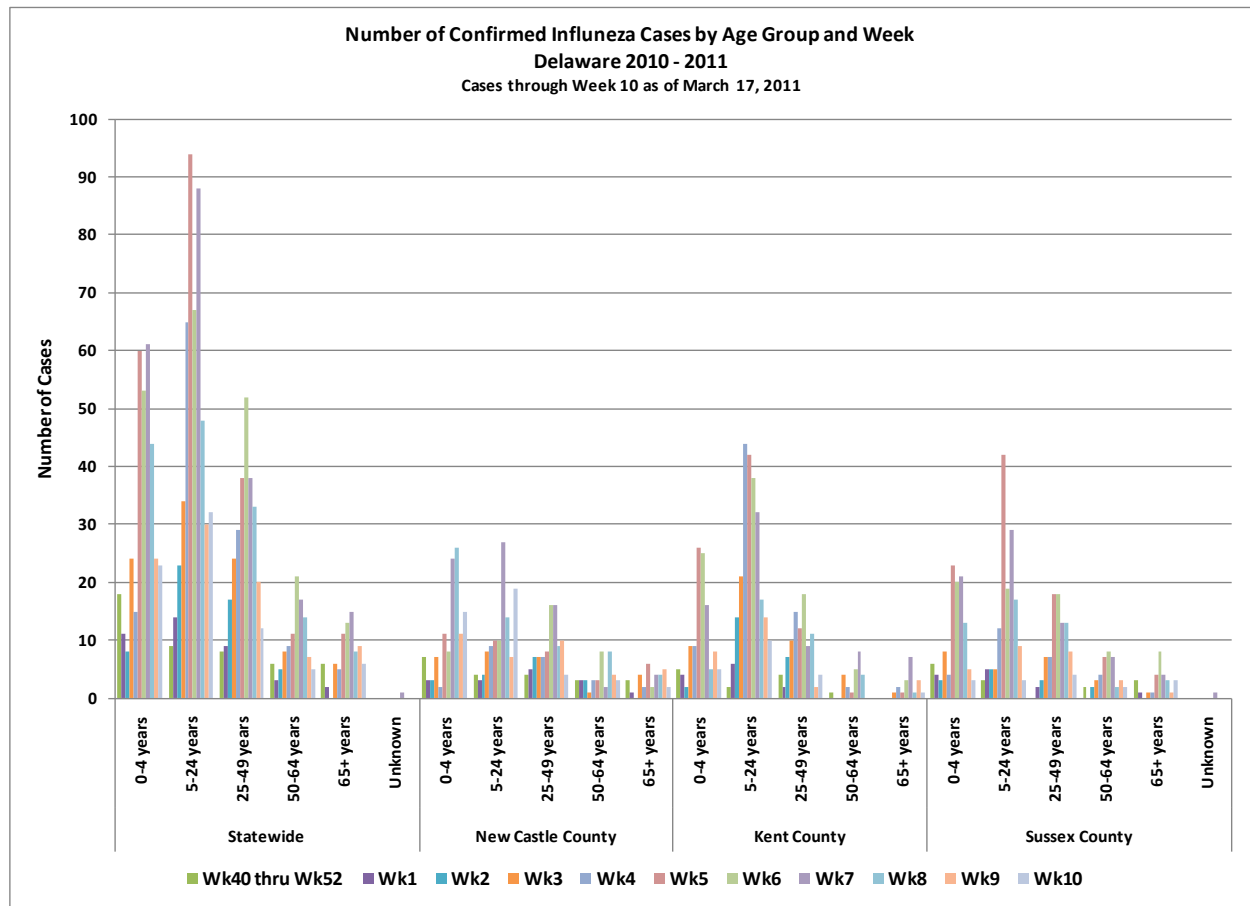
† Influenza Positive and Confirmed Cases Reported through Week 10 (Week ending March 12, 2011)

| Confirmed Flu Cases by Subtype | | 2010 | 2011 | | | | | | | | | | YTD | Total | Pct of Total |
|--------------------------------|-----------------------------|----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-------|--------------|
| | | Wk40 thru Wk52 | Wk1 | Wk2 | Wk3 | Wk4 | Wk5 | Wk6 | Wk7 | Wk8 | Wk9 | Wk10 | | | |
| Statewide | A (2009 H1) | 9 | 13 | 28 | 45 | 62 | 97 | 86 | 92 | 58 | 28 | 12 | 530 | 1313 | |
| | A (H3) | 33 | 20 | 22 | 35 | 41 | 82 | 73 | 68 | 39 | 24 | 16 | 453 | | |
| | A (subtyping not performed) | 2 | 2 | 0 | 4 | 10 | 9 | 12 | 15 | 14 | 17 | 10 | 95 | | |
| | B | 3 | 4 | 3 | 12 | 10 | 26 | 35 | 45 | 36 | 21 | 40 | 235 | | |
| New Castle County | A (2009 H1) | 2 | 7 | 8 | 12 | 12 | 16 | 17 | 30 | 29 | 6 | 8 | 147 | 399 | 32.3% |
| | A (H3) | 15 | 7 | 9 | 6 | 6 | 15 | 20 | 22 | 16 | 12 | 11 | 139 | | |
| | A (subtyping not performed) | 2 | 0 | 0 | 3 | 3 | 1 | 4 | 4 | 6 | 13 | 4 | 40 | | |
| | B | 2 | 1 | 0 | 6 | 2 | 6 | 3 | 17 | 10 | 6 | 20 | 73 | | |
| Kent County | A (2009 H1) | 6 | 5 | 14 | 26 | 37 | 42 | 40 | 30 | 8 | 5 | 1 | 214 | 492 | 39.8% |
| | A (H3) | 5 | 4 | 6 | 15 | 25 | 22 | 22 | 21 | 13 | 6 | 4 | 143 | | |
| | A (subtyping not performed) | 0 | 1 | 0 | 0 | 4 | 2 | 3 | 0 | 2 | 4 | 4 | 20 | | |
| | B | 1 | 2 | 3 | 4 | 6 | 16 | 24 | 21 | 15 | 12 | 11 | 115 | | |
| Sussex County | A (2009 H1) | 1 | 1 | 6 | 7 | 13 | 39 | 29 | 32 | 21 | 17 | 3 | 169 | 422 | 34.2% |
| | A (H3) | 13 | 9 | 7 | 14 | 10 | 45 | 31 | 25 | 10 | 6 | 1 | 171 | | |
| | A (subtyping not performed) | 0 | 1 | 0 | 1 | 3 | 6 | 5 | 11 | 6 | 0 | 2 | 35 | | |
| | B | 0 | 1 | 0 | 2 | 2 | 4 | 8 | 7 | 11 | 3 | 9 | 47 | | |

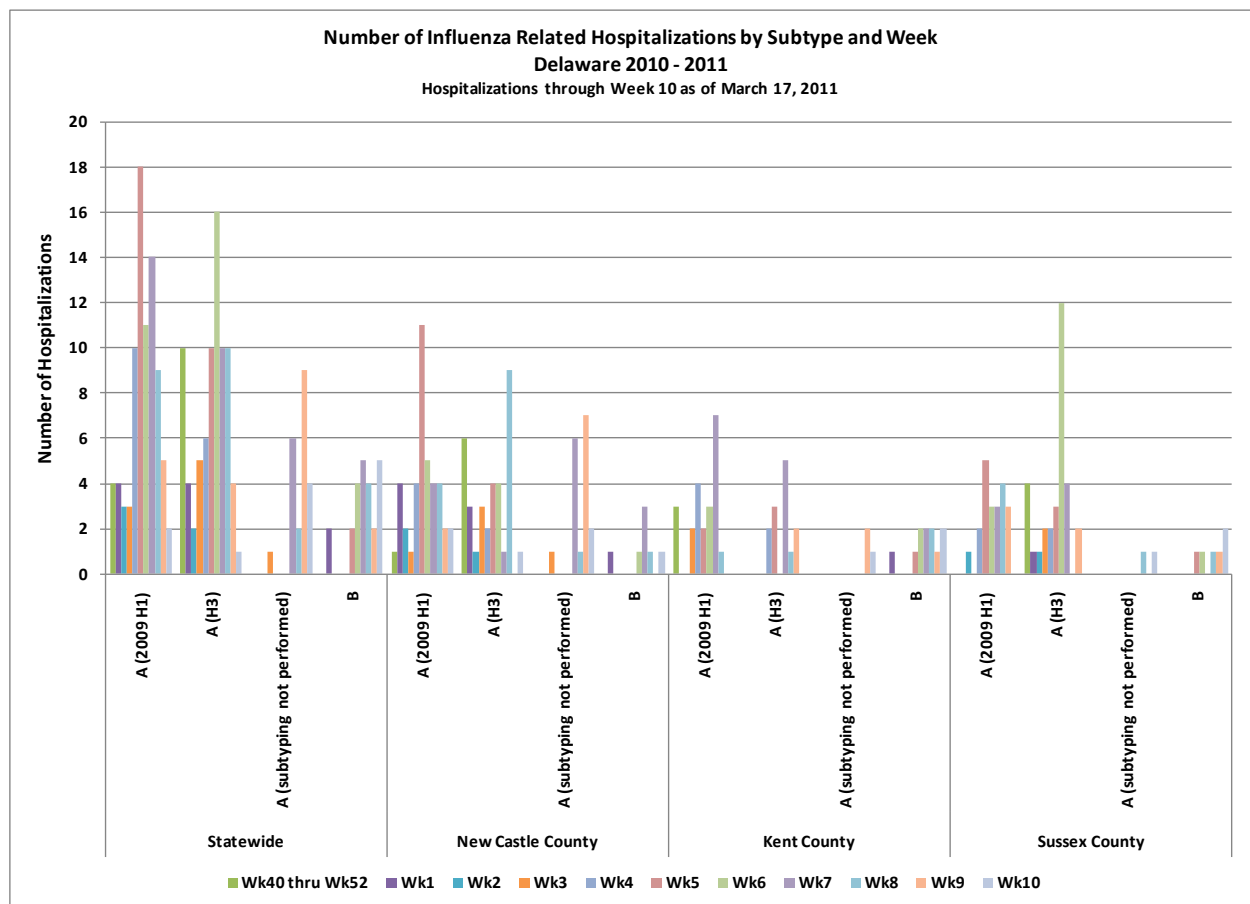
- Distribution of confirmed influenza cases across subtypes was as follows (see also graphic on following page):
 - 1,078 of the 1,313 (82.1%) of confirmed influenza cases were type A
 - Of these, 530 (49.2%) were subtype 2009 H1, and
 - 453 (42.0%) were subtype H3N2.
 - The remaining 95 (8.8%) were of unknown subtype.
 - 235 of the 1,313 (17.9%) confirmed influenza cases were type B.
- Distribution of confirmed influenza cases across counties was as follows (see also graphic on following page):
 - 37.5% occurred among Kent County residents
 - 30.4% occurred among New Castle County residents
 - 32.1% occurred among Sussex County residents



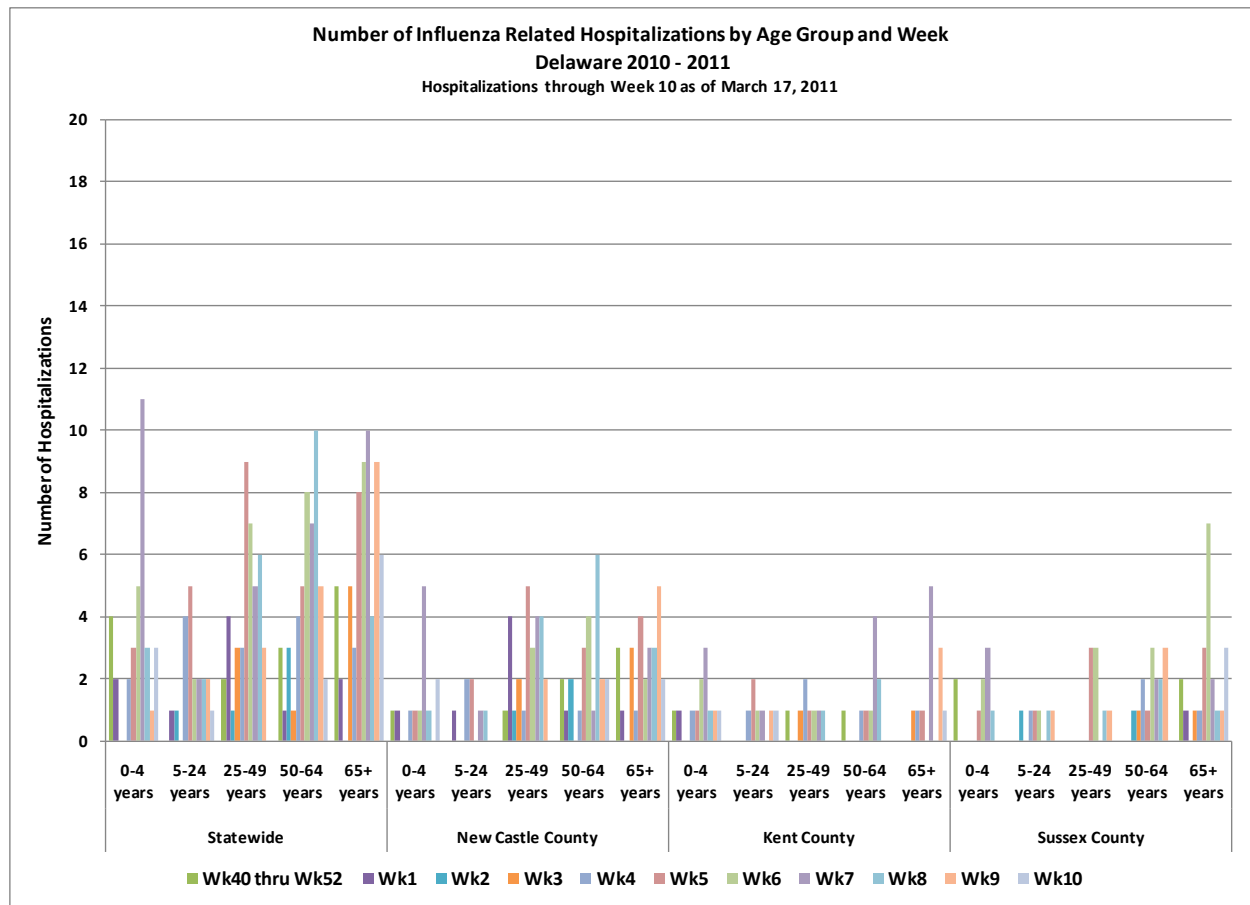
| Confirmed Flu Cases by Age Group | | 2010 | 2011 | | | | | | | | | | | | | |
|----------------------------------|-------------|----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-------|--------------|--|
| | | Wk40 thru Wk52 | Wk1 | Wk2 | Wk3 | Wk4 | Wk5 | Wk6 | Wk7 | Wk8 | Wk9 | Wk10 | YTD | Total | Pct of Total | |
| Statewide | 0-4 years | 18 | 11 | 8 | 24 | 15 | 60 | 53 | 61 | 44 | 24 | 23 | 341 | 1313 | | |
| | 5-24 years | 9 | 14 | 23 | 34 | 65 | 94 | 67 | 88 | 48 | 30 | 32 | 504 | | | |
| | 25-49 years | 8 | 9 | 17 | 24 | 29 | 38 | 52 | 38 | 33 | 20 | 12 | 280 | | | |
| | 50-64 years | 6 | 3 | 5 | 8 | 9 | 11 | 21 | 17 | 14 | 7 | 5 | 106 | | | |
| | 65+ years | 6 | 2 | 0 | 6 | 5 | 11 | 13 | 15 | 8 | 9 | 6 | 81 | | | |
| | Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | | | |
| New Castle County | 0-4 years | 7 | 3 | 3 | 7 | 2 | 11 | 8 | 24 | 26 | 11 | 15 | 117 | 399 | 30.4% | |
| | 5-24 years | 4 | 3 | 4 | 8 | 9 | 10 | 10 | 27 | 14 | 7 | 19 | 115 | | | |
| | 25-49 years | 4 | 5 | 7 | 7 | 7 | 8 | 16 | 16 | 9 | 10 | 4 | 93 | | | |
| | 50-64 years | 3 | 3 | 3 | 1 | 3 | 3 | 8 | 2 | 8 | 4 | 3 | 41 | | | |
| | 65+ years | 3 | 1 | 0 | 4 | 2 | 6 | 2 | 4 | 4 | 5 | 2 | 33 | | | |
| Kent County | 0-4 years | 5 | 4 | 2 | 9 | 9 | 26 | 25 | 16 | 5 | 8 | 5 | 114 | 492 | 37.5% | |
| | 5-24 years | 2 | 6 | 14 | 21 | 44 | 42 | 38 | 32 | 17 | 14 | 10 | 240 | | | |
| | 25-49 years | 4 | 2 | 7 | 10 | 15 | 12 | 18 | 9 | 11 | 2 | 4 | 94 | | | |
| | 50-64 years | 1 | 0 | 0 | 4 | 2 | 1 | 5 | 8 | 4 | 0 | 0 | 25 | | | |
| | 65+ years | 0 | 0 | 0 | 1 | 2 | 1 | 3 | 7 | 1 | 3 | 1 | 19 | | | |
| Sussex County | 0-4 years | 6 | 4 | 3 | 8 | 4 | 23 | 20 | 21 | 13 | 5 | 3 | 110 | 422 | 32.1% | |
| | 5-24 years | 3 | 5 | 5 | 5 | 12 | 42 | 19 | 29 | 17 | 9 | 3 | 149 | | | |
| | 25-49 years | 0 | 2 | 3 | 7 | 7 | 18 | 18 | 13 | 13 | 8 | 4 | 93 | | | |
| | 50-64 years | 2 | 0 | 2 | 3 | 4 | 7 | 8 | 7 | 2 | 3 | 2 | 40 | | | |
| | 65+ years | 3 | 1 | 0 | 1 | 1 | 4 | 8 | 4 | 3 | 1 | 3 | 29 | | | |
| | Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | | | |



| Flu Hospitalizations by Subtype | | 2010 | 2011 | | | | | | | | | | | | |
|---------------------------------|-----------------------------|----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-------|--------------|
| | | Wk40 thru Wk52 | Wk1 | Wk2 | Wk3 | Wk4 | Wk5 | Wk6 | Wk7 | Wk8 | Wk9 | Wk10 | YTD | Total | Pct of Total |
| Statewide | A (2009 H1) | 4 | 4 | 3 | 3 | 10 | 18 | 11 | 14 | 9 | 5 | 2 | 83 | 207 | |
| | A (H3) | 10 | 4 | 2 | 5 | 6 | 10 | 16 | 10 | 10 | 4 | 1 | 78 | | |
| | A (subtyping not performed) | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 2 | 9 | 4 | 22 | | |
| | B | 0 | 2 | 0 | 0 | 0 | 2 | 4 | 5 | 4 | 2 | 5 | 24 | | |
| New Castle County | A (2009 H1) | 1 | 4 | 2 | 1 | 4 | 11 | 5 | 4 | 4 | 2 | 2 | 40 | 98 | 50.5% |
| | A (H3) | 6 | 3 | 1 | 3 | 2 | 4 | 4 | 1 | 9 | 0 | 1 | 34 | | |
| | A (subtyping not performed) | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 1 | 7 | 2 | 17 | | |
| | B | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 1 | 7 | | |
| Kent County | A (2009 H1) | 3 | 0 | 0 | 2 | 4 | 2 | 3 | 7 | 1 | 0 | 0 | 22 | 49 | 25.3% |
| | A (H3) | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 5 | 1 | 2 | 0 | 13 | | |
| | A (subtyping not performed) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 3 | | |
| | B | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 2 | 2 | 1 | 2 | 11 | | |
| Sussex County | A (2009 H1) | 0 | 0 | 1 | 0 | 2 | 5 | 3 | 3 | 4 | 3 | 0 | 21 | 60 | 30.9% |
| | A (H3) | 4 | 1 | 1 | 2 | 2 | 3 | 12 | 4 | 0 | 2 | 0 | 31 | | |
| | A (subtyping not performed) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | | |
| | B | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 2 | 6 | | |



| Flu Hospitalizations by Age Group | | 2010 | 2011 | | | | | | | | | | | | | |
|-----------------------------------|-------------|----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-------|--------------|--|
| | | Wk40 thru Wk52 | Wk1 | Wk2 | Wk3 | Wk4 | Wk5 | Wk6 | Wk7 | Wk8 | Wk9 | Wk10 | YTD | Total | Pct of Total | |
| Statewide | 0-4 years | 4 | 2 | 0 | 0 | 2 | 3 | 5 | 11 | 3 | 1 | 3 | 34 | 207 | | |
| | 5-24 years | 0 | 1 | 1 | 0 | 4 | 5 | 2 | 2 | 2 | 2 | 1 | 20 | | | |
| | 25-49 years | 2 | 4 | 1 | 3 | 3 | 9 | 7 | 5 | 6 | 3 | 0 | 43 | | | |
| | 50-64 years | 3 | 1 | 3 | 1 | 4 | 5 | 8 | 7 | 10 | 5 | 2 | 49 | | | |
| | 65+ years | 5 | 2 | 0 | 5 | 3 | 8 | 9 | 10 | 4 | 9 | 6 | 61 | | | |
| New Castle County | 0-4 years | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 5 | 1 | 0 | 2 | 13 | 98 | 47.3% | |
| | 5-24 years | 0 | 1 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 7 | | | |
| | 25-49 years | 1 | 4 | 1 | 2 | 1 | 5 | 3 | 4 | 4 | 2 | 0 | 27 | | | |
| | 50-64 years | 2 | 1 | 2 | 0 | 1 | 3 | 4 | 1 | 6 | 2 | 2 | 24 | | | |
| | 65+ years | 3 | 1 | 0 | 3 | 1 | 4 | 2 | 3 | 3 | 5 | 2 | 27 | | | |
| Kent County | 0-4 years | 1 | 1 | 0 | 0 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 12 | 49 | 23.7% | |
| | 5-24 years | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 7 | | | |
| | 25-49 years | 1 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 8 | | | |
| | 50-64 years | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 2 | 0 | 0 | 10 | | | |
| | 65+ years | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 5 | 0 | 3 | 1 | 12 | | | |
| Sussex County | 0-4 years | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 0 | 0 | 9 | 60 | 29.0% | |
| | 5-24 years | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 6 | | | |
| | 25-49 years | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 1 | 1 | 0 | 8 | | | |
| | 50-64 years | 0 | 0 | 1 | 1 | 2 | 1 | 3 | 2 | 2 | 3 | 0 | 15 | | | |
| | 65+ years | 2 | 1 | 0 | 1 | 1 | 3 | 7 | 2 | 1 | 1 | 3 | 22 | | | |



| Total Flu-related Deaths in Delaware 2010 – 2011 Influenza Season | Wk40 thru Wk52 | Wk01 thru Wk10 | YTD |
|--|-------------------|-------------------|-----|
| | 0 | 4 | 4 |

| Annual Seasonal Flu Case Totals | |
|---------------------------------|-------|
| 2004 | 995 |
| 2005 | 541 |
| 2006 | 508 |
| 2007 | 1401 |
| 2008 | 738 |
| 2009-2010 | 2,247 |
| 2010-2011 | 1,313 |

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

† Reports are by date of specimen collection, not the date the results are obtained. As a result, prior weeks may be adjusted to reflect additional cases.

§§ Confirmed Influenza cases from all reporting sources (including State Lab)

NOTE: The data provided may not be a true reflection of the total number of people who have been infected with influenza virus in Delaware, chiefly due to the following:

- Many people ill with influenza-like symptoms do not seek medical care; and
- Many who do seek medical care are not tested for influenza.

Level of Influenza Activity in Delaware, Week 10:

| | |
|-------------------|---|
| Widespread | ➔ Increase in ILI reports above the regional baseline and/or institutional outbreaks of influenza (ILI or lab confirmed) AND recent (within the past 3 weeks) laboratory confirmed influenza in at least two of the three counties. |
|-------------------|---|

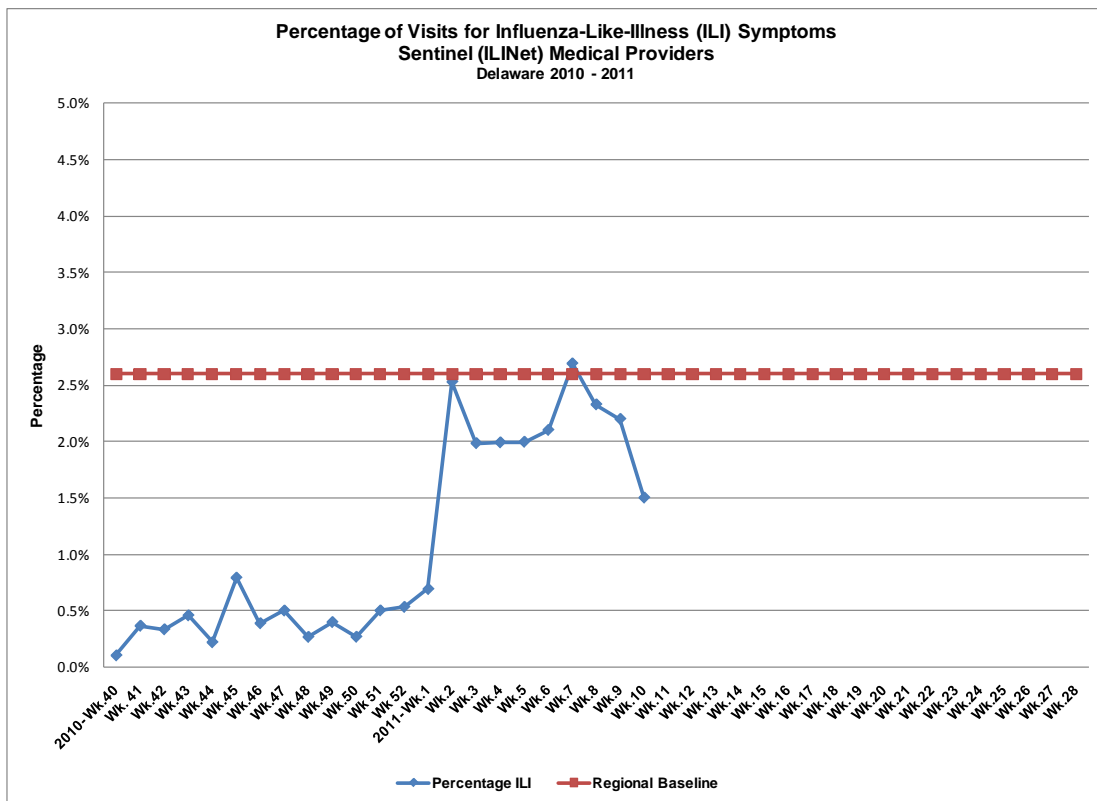
Influenza-like illness (ILI) is defined as patients presenting with fever over 100° F, cough and/or sore throat in the absence of a known cause other than influenza.

- ➔ **No Activity:** No laboratory confirmed cases of influenza and no increase in the number of reports of ILI above regional baseline for the season.
- ➔ **Sporadic:** Isolated laboratory confirmed cases **OR** a laboratory confirmed outbreak in one institution but no increase in reports of ILI from the regional baseline for the season.
- ➔ **Local:** Increased ILI above the regional baseline for the season in a single county; ILI activity in other counties is not increased above baseline AND recent (within the past three weeks) laboratory evidence of influenza in the county with increased ILI **OR** two or more institutional outbreaks (ILI or laboratory confirmed flu) in a single county AND recent (within the past three weeks) laboratory evidence of influenza in the county with the outbreaks; virus activity is no greater than sporadic in other counties.
- ➔ **Regional:** Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least 2 but less than half the regions of the state. (This level of activity does not apply for small states with 4 or fewer regions.)
- ➔ **Widespread:** Increase in ILI reports above the regional baseline and/or institutional outbreaks of influenza (ILI or lab confirmed) AND recent (within the past 3 weeks) laboratory confirmed influenza in at least two of the three counties.

ILINet (Sentinel) Provider Surveillance Network:

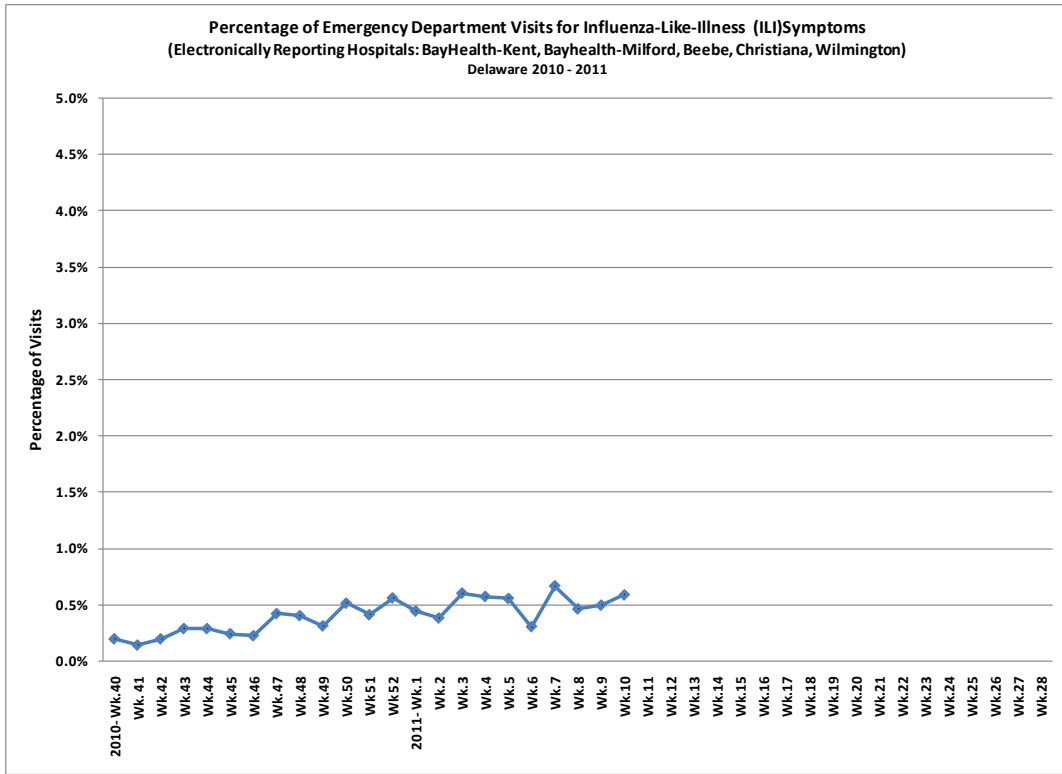
An ILINet (Sentinel) provider conducts surveillance for influenza-like illness (ILI) in collaboration with the state health department and the Centers for Disease Control and Prevention. Data reported by ILINet (Sentinel) providers, in combination with other influenza surveillance data, provide a national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

**Influenza-like illness reported from ILINet (Sentinel) Providers
Delaware 2010-2011
10 of 17 Sentinels reporting**

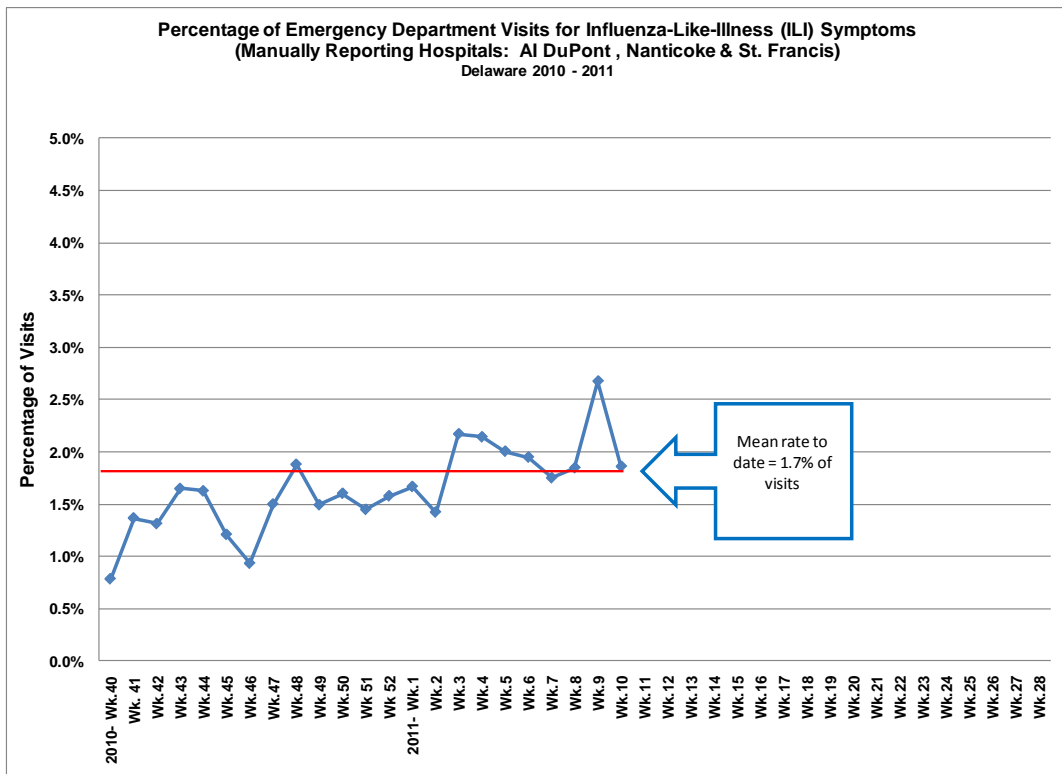


Regional Baseline for 2010-2011 applicable to: Region 3 (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia & West Virginia); baseline= 2.6%.

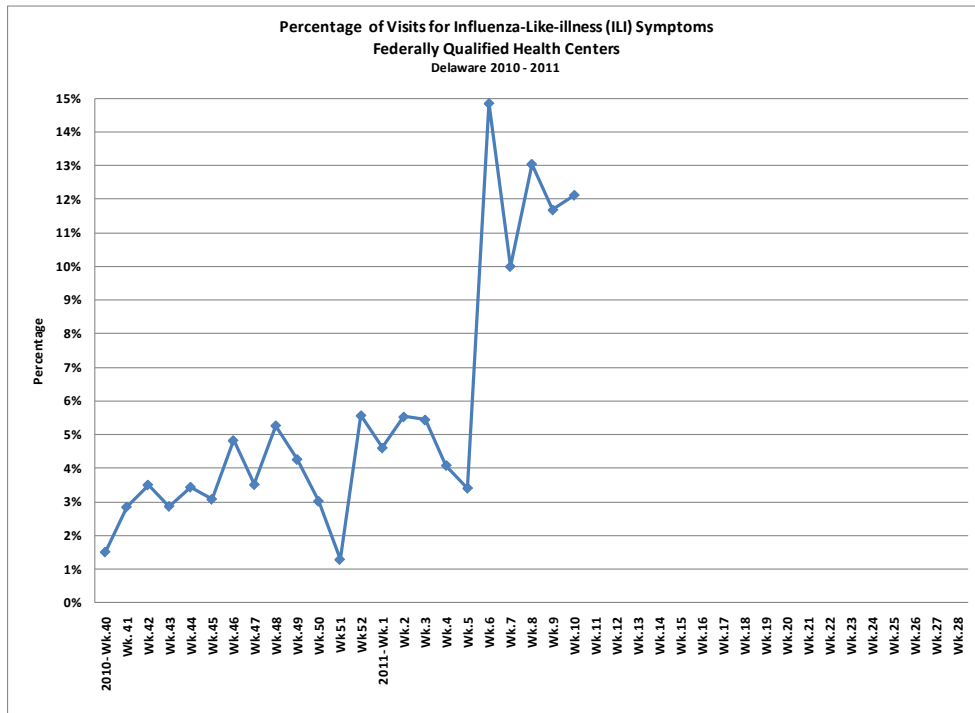
Hospital Electronic Surveillance Data: Delaware 2010-2011 5 of 5 hospitals reporting



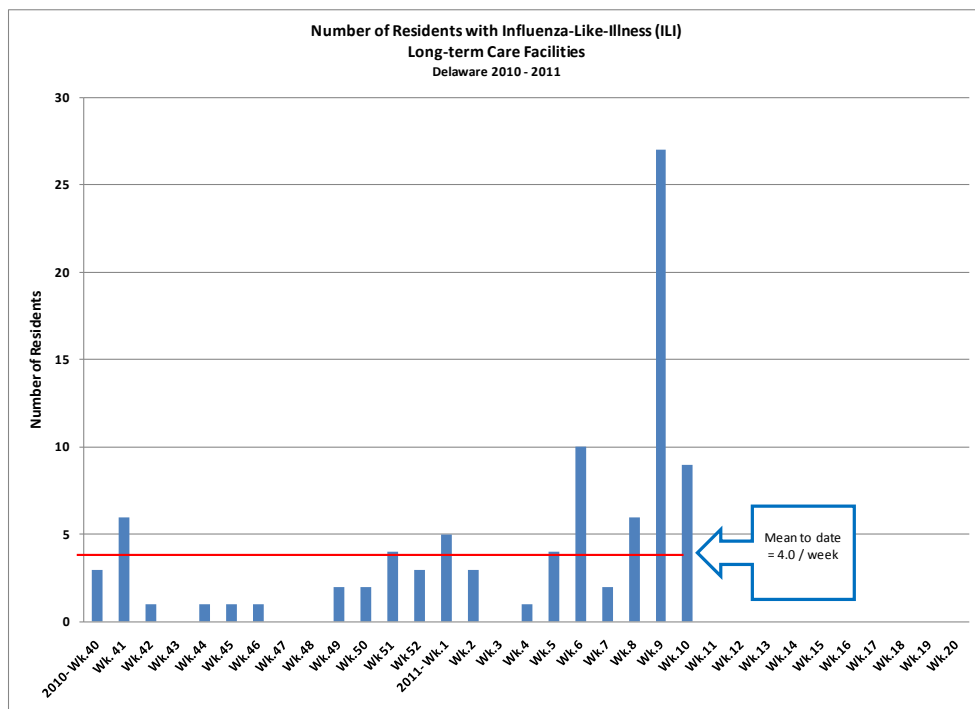
Hospital Manual Surveillance Data: Delaware 2010-2011 3 of 3 hospitals reporting



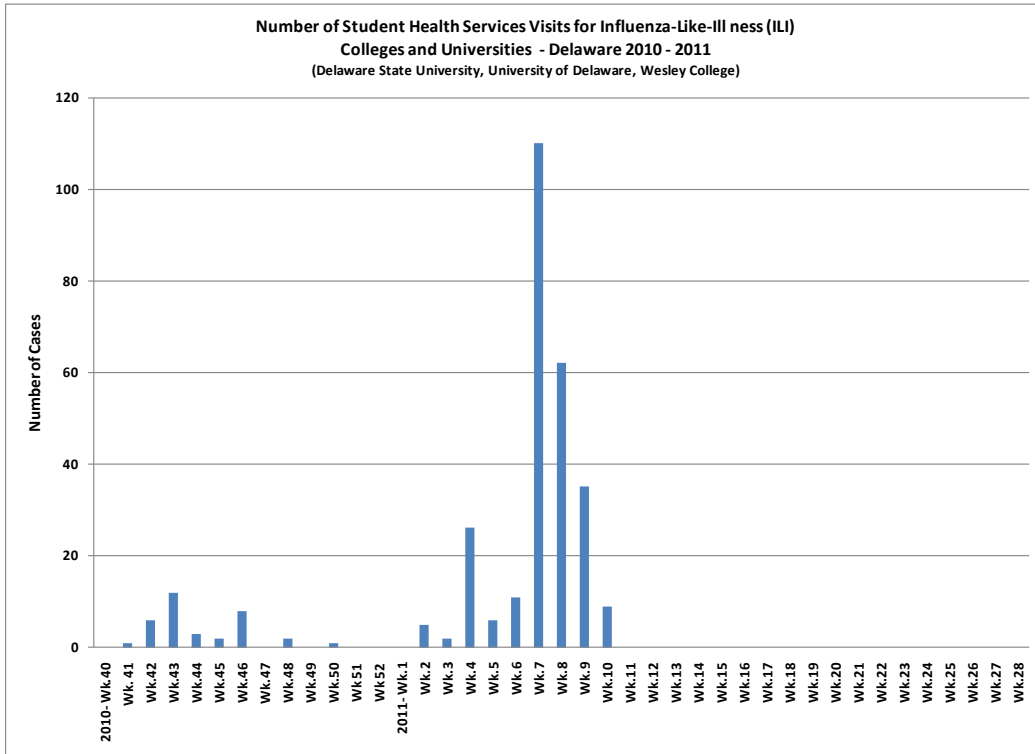
Influenza-like illness reported from Federally Qualified Health Centers (FQHCs):
 Delaware 2010-2011
 1 of 2 facilities reporting (Henrietta Johnson)



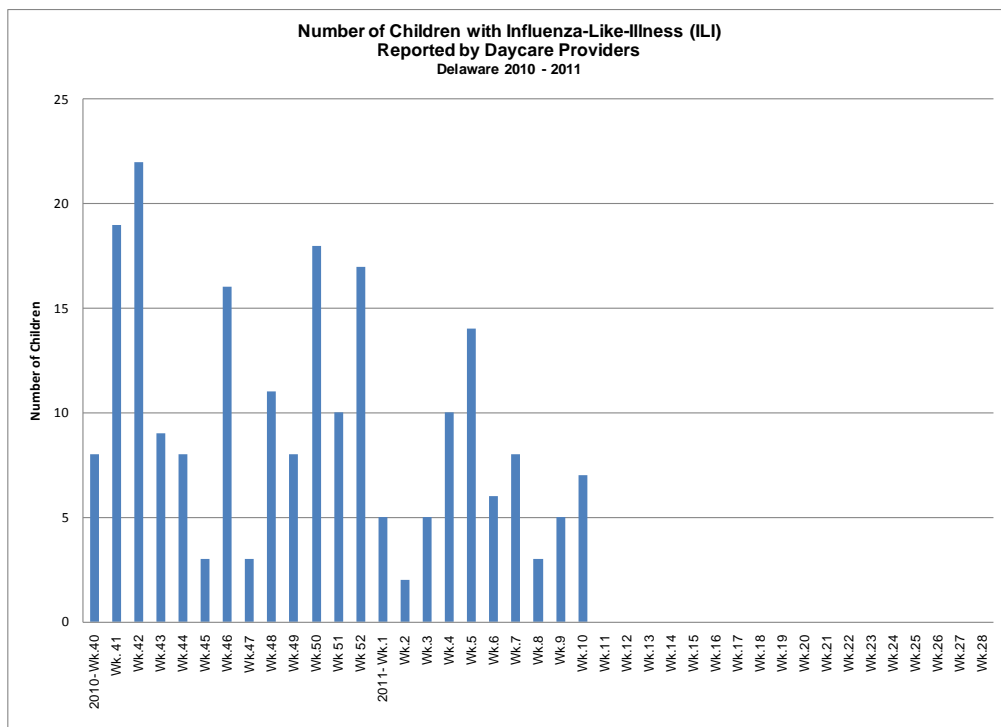
Influenza-like illness reported from Long-Term Care Facilities (LTCFs):
 Delaware 2010-2011
 9 of 19 facilities reporting



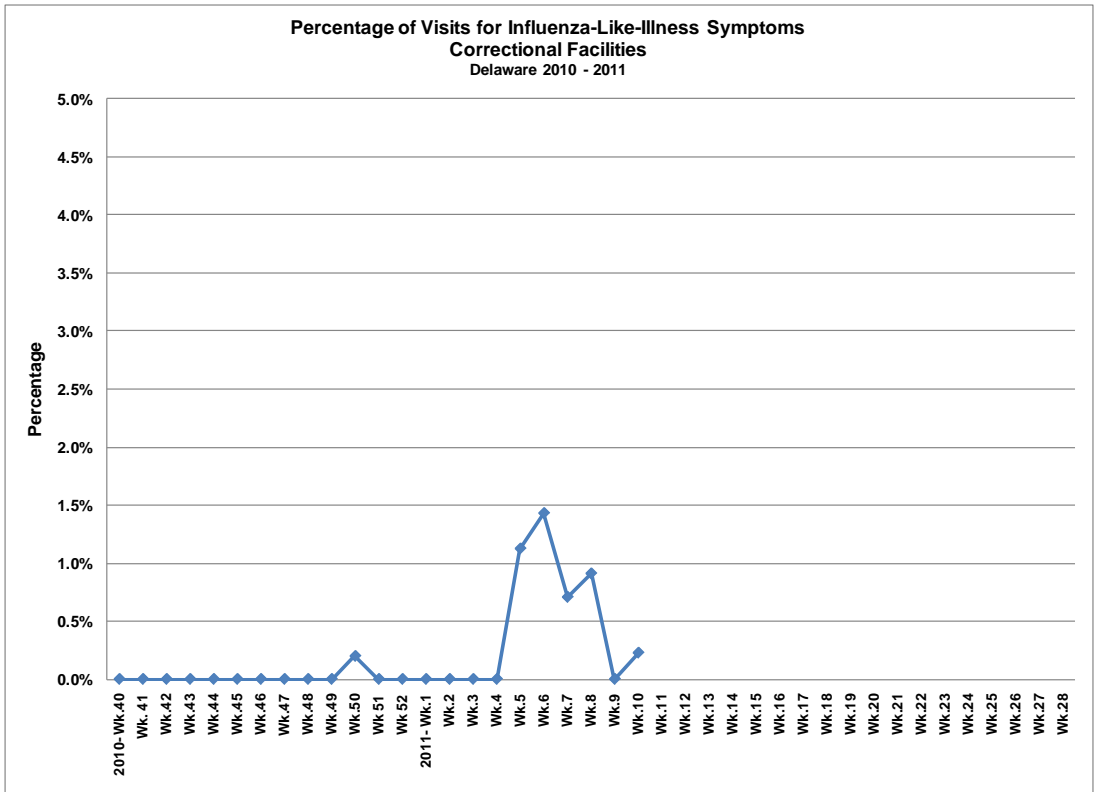
Influenza-like illness reported from Colleges/Universities: Delaware 2010-2011
Delaware 2010 – 2011
2 of 3 schools reporting (Delaware State University & University of Delaware)



Influenza-like illness reported from Daycare Providers: Delaware 2010-2011
5 of 13 providers reporting



**Influenza-like illness reported from DE Correctional Facilities:
 Delaware 2010-2011
 2 of 3 facilities reporting (Howard R. Young & Sussex Correctional)**



The Division of Public Health is committed to serving you better. If you have not found the answers to your questions, please visit flu.delaware.gov or call (302) 744-4704.