



# Delaware Weekly Influenza Report

## MMWR Week 1 (January 4 – 10, 2015)

### Delaware Division of Public Health

#### National Influenza Synopsis 2014-2015:

National data are updated Friday of each week. Please visit <http://www.cdc.gov/flu/weekly/> for the most current information. During MMWR Week 1 (January 4 - 11, 2015), influenza activity remained elevated in the U.S. The severity of flu disease so far this season is similar to some previous seasons in which influenza A (H3N2) viruses have circulated predominantly. The geographic spread of influenza in 46 states and Guam was reported as widespread. Puerto Rico, the U.S. Virgin Islands and three states (Alabama, Georgia and Hawaii) reported regional activity. The District of Columbia and Alaska reported local activity. Both national and state data are provisional and subject to change as additional reports are received.

#### Delaware Influenza Surveillance 2014-2015:

During MMWR Week 1, there were 187 laboratory-confirmed cases of influenza reported among Delaware residents. Reports of influenza-like illness (ILI) received from participating providers, facilities, and institutions indicated relatively low levels of ILI in the community. For the second week, levels of ILI from sentinel providers were not reported due to insufficient data.

#### Level of Influenza Activity in Delaware, MMWR Week 1:

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

<sup>1</sup> 2014-2015 Region 3 (DE, DC, MD, PA, VA, and WV) baseline = 2.0%.

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

<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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**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 2014-15**

Confirmed Flu Cases by Subtype / Lineage		Wk 40	Wk 41	Wk 42	Wk 43	Wk 44	Wk 45	Wk 46	Wk 47	Wk 48	Wk 49	Wk 50	Wk 51	Wk 52	Wk 53	Wk 1	YTD	YTD Total	YTD County %
STATEWIDE	A / 2009 H1N1	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	4	1,542	
	A / 2012 H3N2	0	1	2	1	9	8	13	23	33	37	47	88	56	47	48	413		
	A / no subtype	0	0	0	2	2	7	9	16	40	47	66	241	326	223	136	1,115		
	B / Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2		
	B / Victoria	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1		
	B / no lineage	0	0	0	3	0	1	0	0	0	1	1	0	0	0	1	7		
New Castle County	A / 2009 H1N1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	579	37.6%
	A / 2012 H3N2	0	0	0	1	1	0	1	3	6	10	20	53	36	33	31	195		
	A / no subtype	0	0	0	0	0	0	0	1	3	3	7	70	124	105	65	378		
	B / Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2		
	B / Victoria	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1		
	B / no lineage	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2		
Kent County	A / 2009 H1N1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	608	39.4%
	A / 2012 H3N2	0	0	0	0	0	1	0	4	5	5	9	17	13	6	9	69		
	A / no subtype	0	0	0	0	0	1	1	4	16	23	38	113	176	104	56	532		
	B / Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	B / Victoria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	B / no lineage	0	0	0	1	0	1	0	0	0	0	1	0	0	0	1	4		
Sussex County	A / 2009 H1N1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	355	23.0%
	A / 2012 H3N2	0	1	2	0	8	7	12	16	22	22	18	18	7	8	8	149		
	A / no subtype	0	0	0	2	2	6	8	11	21	21	21	58	25	14	15	205		
	B / Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	B / Victoria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	B / no lineage	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1		

**Table 1b. Influenza positive<sup>1</sup> cases reported<sup>2</sup> statewide and county by age group, Delaware 2014-15**

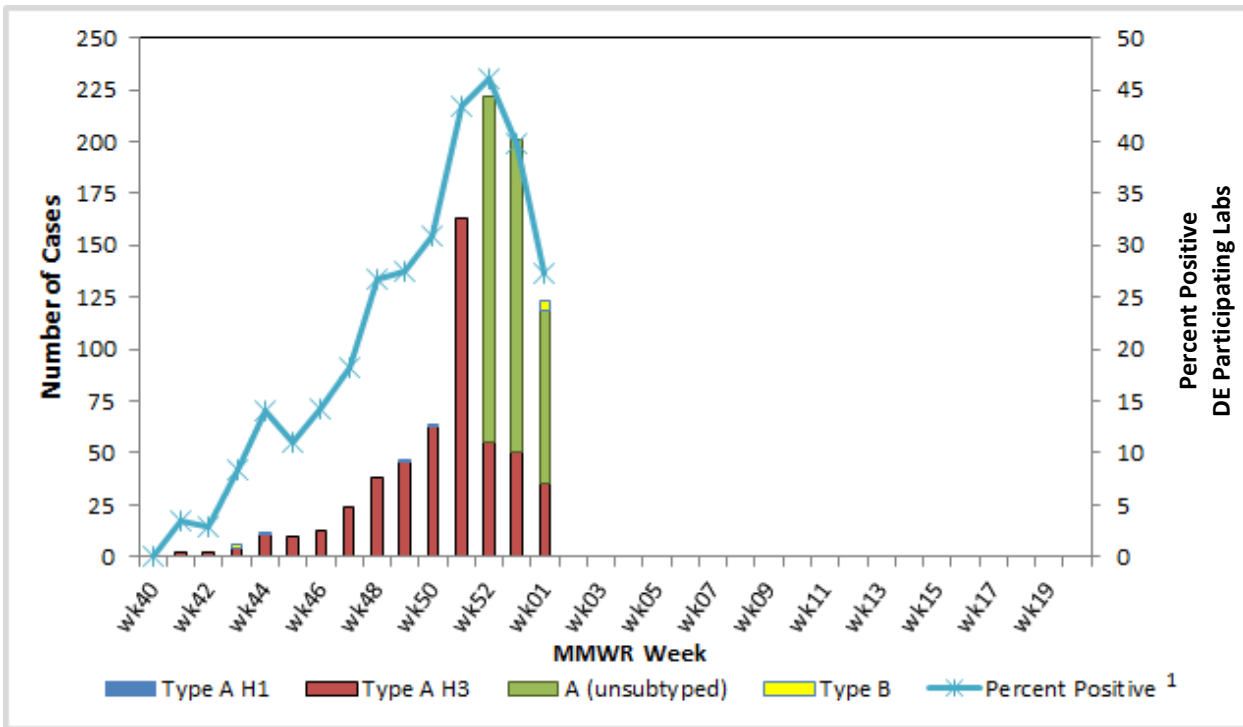
Confirmed Flu Cases by Age Group		Wk 40	Wk 41	Wk 42	Wk 43	Wk 44	Wk 45	Wk 46	Wk 47	Wk 48	Wk 49*	Wk 50	Wk 51	Wk 52	Wk 53	Wk 1	YTD	YTD Total	YTD County %
STATEWIDE	0-4 years	0	1	1	2	2	3	4	6	6	8	12	58	49	29	22	203	1,542	
	5-24 years	0	0	1	3	6	10	8	17	38	28	54	155	86	26	38	470		
	25-49 years	0	0	0	0	1	3	5	7	13	29	24	46	84	57	33	302		
	50-64 years	0	0	0	0	1	0	1	5	8	7	8	23	49	43	16	161		
	65+ years	0	0	0	1	1	0	4	4	8	13	17	48	117	115	78	406		
New Castle County	0-4 years	0	0	0	1	0	0	0	0	0	1	3	21	10	6	5	47	579	37.6%
	5-24 years	0	0	0	0	0	0	0	1	2	4	13	57	28	6	15	126		
	25-49 years	0	0	0	0	1	0	0	2	4	6	4	18	33	25	19	112		
	50-64 years	0	0	0	0	0	0	1	1	2	1	2	4	29	23	6	69		
	65+ years	0	0	0	1	0	0	0	0	1	2	6	24	60	78	53	225		
Kent County	0-4 years	0	0	0	1	0	1	1	0	3	3	5	26	30	20	16	106	608	39.4%
	5-24 years	0	0	0	0	0	1	0	6	12	12	22	67	50	16	17	203		
	25-49 years	0	0	0	0	0	1	0	1	3	7	13	17	48	28	9	127		
	50-64 years	0	0	0	0	0	0	0	0	2	1	2	13	15	14	8	55		
	65+ years	0	0	0	0	0	0	0	1	1	5	6	7	49	32	16	117		
Sussex County	0-4 years	0	1	1	0	2	2	3	6	3	4	4	11	9	3	1	50	355	23.0%
	5-24 years	0	0	1	3	6	9	8	10	24	12	19	31	8	4	6	141		
	25-49 years	0	0	0	0	0	2	5	4	6	16	7	11	3	4	5	63		
	50-64 years	0	0	0	0	1	0	0	4	4	5	4	6	5	6	2	37		
	65+ years	0	0	0	0	1	0	4	3	6	6	5	17	8	5	9	64		

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

<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>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, these 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 2014-15\*



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

Table 2. Influenza-related hospitalizations statewide and county, by age group, Delaware 2014-15

Hospitalized Flu Cases by Age Group		Wk 40	Wk 41	Wk 42	Wk 43	Wk 44	Wk 45	Wk 46	Wk 47	Wk 48	Wk 49	Wk 50	Wk 51	Wk 52	Wk 53	Wk 1	YTD	YTD Total	YTD County %	
STATEWIDE	0-4 years	0	0	0	1	0	0	0	1	1	0	0	1	3	2	0	9	378		
	5-24 years	0	0	0	0	0	0	0	1	1	1	1	2	1	0	4	11			
	25-49 years	0	0	0	0	0	0	0	0	0	2	1	6	7	12	7	35			
	50-64 years	0	0	0	0	0	0	0	0	1	0	3	0	5	18	21	8			56
	65+ years	0	0	0	1	1	0	2	0	0	4	12	26	73	89	59	267			
New Castle County	0-4 years	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	253	66.9%	
	5-24 years	0	0	0	0	0	0	0	0	1	0	1	2	0	0	3	7			
	25-49 years	0	0	0	0	0	0	0	0	0	2	1	4	5	9	5	26			
	50-64 years	0	0	0	0	0	0	0	1	0	1	0	0	14	18	5	39			
	65+ years	0	0	0	1	0	0	0	0	0	1	6	16	41	67	48	180			
Kent County	0-4 years	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	4	83	22.0%	
	5-24 years	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	4			
	25-49 years	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	7			
	50-64 years	0	0	0	0	0	0	0	0	0	1	0	4	4	3	2	14			
	65+ years	0	0	0	0	0	0	0	0	0	1	1	2	27	18	5	54			
Sussex County	0-4 years	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	4	42	11.1%	
	5-24 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	25-49 years	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2			
	50-64 years	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	3			
	65+ years	0	0	0	0	1	0	2	0	0	2	5	8	5	4	6	33			

Table 3. Influenza-related deaths, Delaware 2014-15

Influenza-Related Deaths	Wk 40	Wk 41	Wk 42	Wk 43	Wk 44	Wk 45	Wk 46	Wk 47	Wk 48	Wk 49	Wk 50	Wk 51	Wk 52	Wk 53	Wk 1	YTD Total
	0	0	0	0	0	0	1	1	0	0	0	0	1	3	5	11

**Table 4. Annual number of influenza cases reported by flu season, Delaware 2004-05 through 2014-15**

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	1,470
2011 – 2012	262
2012 – 2013	1,773
2013 – 2014	1,842
2014 – 2015 (YTD)	1,542

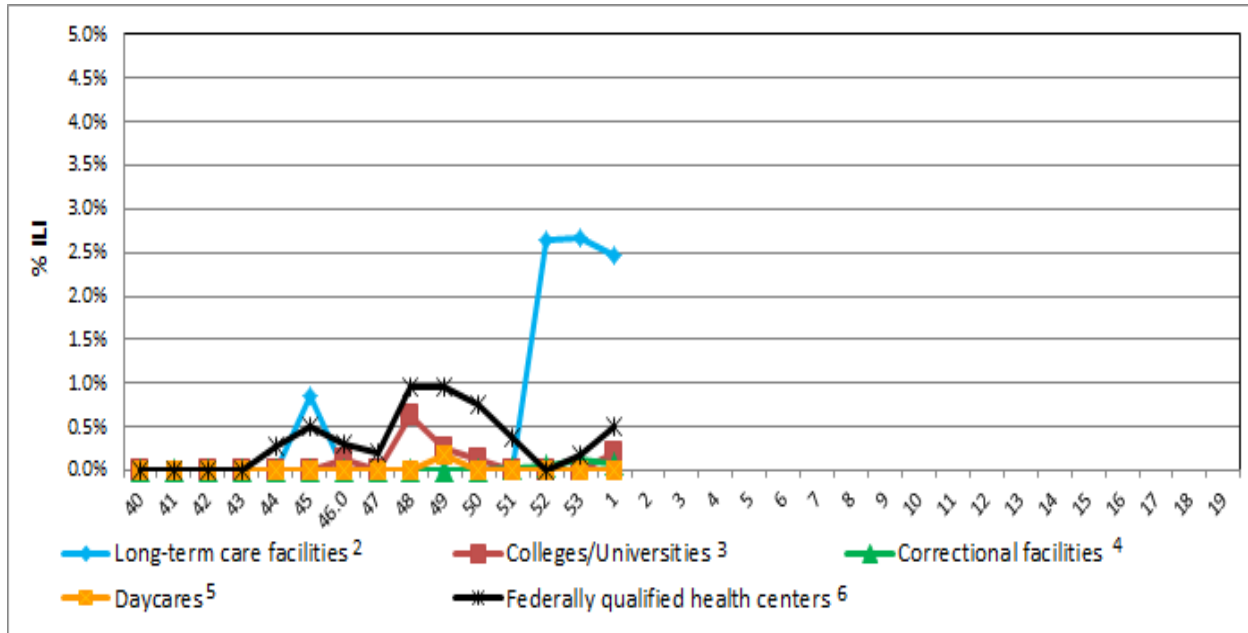
**U.S. Outpatient Influenza-Like Illness Surveillance Network (ILINet) Sentinel Providers**

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 2014-2015**

Figure 2 is not shown this week since insufficient data are available from sentinel providers.

**Figure 3. Influenza-like illness reported by influenza surveillance ILI reporting partners<sup>1</sup>, Delaware 2014-2015**



<sup>1</sup> ILINet reporting partners include long-term care facilities, colleges / universities, correctional facilities, daycare facilities and federally qualified health centers.

<sup>2</sup> % ILI= percentage of residents with ILI symptoms. Nine of 20 LTCFs reported.

<sup>3</sup> % ILI= percentage of student visits for ILI; One university reported.

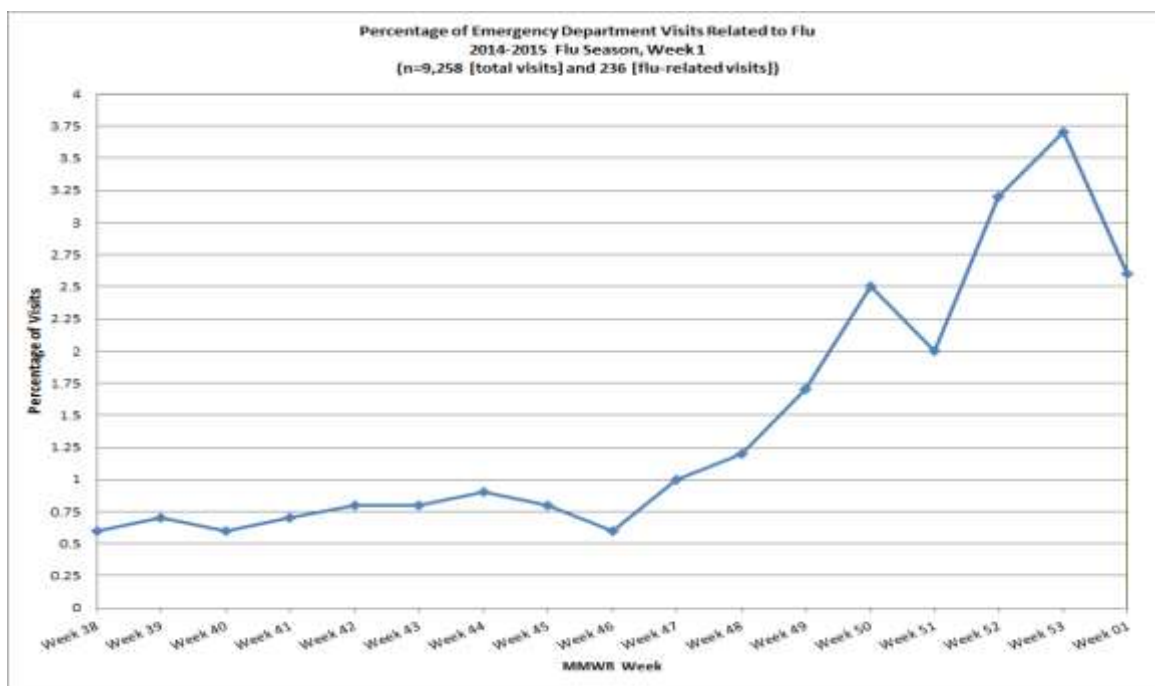
<sup>4</sup> % ILI= percentage of visits for ILI at the correctional facility; Eight of 10 facilities reported.

<sup>5</sup> % ILI= percentage of children absent with ILI; One daycare provider reported.

<sup>6</sup> % ILI= percentage of visits for ILI at FQHCs; LaRed (Seaford & Georgetown) and Henrietta Johnson Medical Center (Wilmington & Southbridge).

<sup>7</sup> The regional baseline is calculated by CDC using non-influenza weeks from the previous three influenza seasons. Delaware is part of Region 3 that also includes DC, MD, PA, VA and WV.

**Figure 4. Percentage of Delaware emergency department visits related to influenza (flu)\***



\* Two syndromes are represented in this graph. Influenza-like illness (ILI) syndrome is defined as a chief complaint with fever and cough and/or sore throat. The flu syndrome is defined as any chief complaint regarding influenza.

**Summary of International Influenza Activity**

Globally influenza activity continued to increase in the northern hemisphere with influenza A(H3N2) viruses predominating so far this season. In North America, the influenza season was ongoing with influenza activity still increasing in most areas. Influenza A(H3N2) was the predominant virus. In the United States, flu activity continued to increase in intensity and expand geographically in many areas of the country. The severity of flu disease so far this season is similar to some previous seasons in which influenza A (H3N2) viruses have circulated predominantly. In Canada, ILI activity was within expected levels. Influenza detections continued to increase and influenza A(H3N2) and influenza A (not subtyped) have predominated. Influenza activity increased in some countries of the Caribbean, decreased in Central America and was low in the tropical countries of South America. In Europe influenza activity was still low, but the season seemed to have started. In eastern Asia, influenza activity increased with influenza A(H3N2) virus predominant. In tropical Asia, influenza activity increased slightly but remained low with influenza B predominating.

Reference: World Health Organization (WHO), 2015. Influenza Update number 228 (1/12/15). Retrieved on January 13, 2015, 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.

**NOTE:** The 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 influenza data available. Please visit us at [flu.delaware.gov](http://flu.delaware.gov) or <http://dhss.delaware.gov/dhss/dph/dpc/immunize-flu.html> for general information on the flu or specific information on DPH flu clinics.

- 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 information, please call 302-744-1060.