

Delaware Weekly Influenza Report MMWR Week 9 (March 1 - 7, 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 9 (March 1 - 7, 2015), influenza activity continued to decrease, but remained elevated in the United States. Influenza-associated hospitalization rates among adults aged ≥65 years remain higher this season in comparison to previous influenza seasons and the percentage of deaths due to pneumonia and influenza (7.4%) remained above the epidemic threshold. The geographic spread of influenza was reported as widespread in nine states (Connecticut, Indiana, Maine, Massachusetts, New Hampshire, New Jersey, New York, Oklahoma, and Vermont). Twenty-nine states, the U.S. Virgin Islands, Guam and Puerto Rico reported regional activity. Eleven states (Colorado, Delaware, Kentucky, Maryland, Minnesota, Nevada, Oregon, Rhode Island, South Dakota, West Virginia and Wisconsin) reported local activity. The District of Columbia and Alaska reported sporadic 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 9, there were 22 laboratory-confirmed cases of influenza reported among Delaware residents, bringing the total number of laboratory-confirmed cases this season to 2,253. Reports of influenza-like illness (ILI) received from participating providers, facilities and institution was 0.79%; below the regional baseline of 2.0%. ILI was 2.4% nationally, above the national baseline of 2.0%.

Level of Influenza Activity in Delaware, MMWR Week 9:

Local

Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed influenza in a single region of 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.³

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.

Region = population under surveillance in a defined geographical subdivision of a state. Regions typically include several counties. Regional doesn't apply to states with \leq four counties.

In this report:	page
Influenza positive cases reported statewide and county, by subtype, Delaware 2014-15	2
Influenza positive cases reported statewide and county by age group, Delaware 2014-15	2
Confirmed cases of influenza by type and subtype, Delaware 2014-15	3
Influenza-related hospitalizations, statewide and county, by age group, Delaware 2014-15	3
Influenza-related deaths, Delaware 2014-15	3
Annual number of influenza cases reported by flu season, Delaware 2004-2005 through 2014–15	4
Percentage of visits for influenza-like illness reported by sentinel providers participating in the ILINet, Delaware 2014-15	4
Influenza-like illness reported by ILI reporting partners, Delaware 2014-15	5
Number of confirmed influenza cases by MMWR Week, Delaware, 2014-15	5
Summary of International Influenza Activity	6

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

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

Table 1a. Influenza positive¹ cases reported² statewide and county by subtype (A) or lineage (B)³, Delaware 2014-15

	rmed Flu Cases btype / Lineage	Wk 40- 50	Wk 51	Wk 52	Wk 53	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	YTD	YTD Total	YTD County %
	A / 2009 H1N1	0	1	3	0	0	0	0	0	0	0	0	0	0	4		
ш	A / 2012 H3N2	175	88	61	48	49	46	45	40	36	26	12	16	14	656		
STATEWIDE	A / no subtype	189	241	387	228	141	101	99	58	32	51	23	4	3	1,557	2,253	
Ę	B / Yamagata	1	0	0	0	2	1	1	0	0	0	0	3	1	9	2,233	
ST/	B / Victoria	0	0	0	3	0	0	0	0	0	0	0	0	1	1		
	B / no lineage	6	0	0	0	1	1	1	0	1	3	6	4	3	26		
	A / 2009 H1N1	0	1	0	0	0	0	0	0	0	0	0	0	0	1		
ø.	A / 2012 H3N2	42	53	40	33	32	30	27	28	18	23	10	13	11	360		
New Castle County	A / no subtype	14	70	184	110	70	44	61	19	7	27	11	2	1	620	997	44.3%
w Cast County	B / Yamagata	1	0	0	0	0	2	0	1	0	0	0	0	0	4	997	44.3%
Š	B / Victoria	0	0	0	0	0	0	0	0	0	0	0	0	1	1		
	B / no lineage	2	0	0	0	0	0	0	0	0	1	4	2	2	11		
	A / 2009 H1N1	0	0	3	0	0	0	0	0	0	0	0	0	0	3		
_	A / 2012 H3N2	24	17	13	7	9	12	5	9	12	2	2	2	3	117		
Kent County	A / no subtype	83	113	177	104	57	43	30	37	21	18	12	2	1	698	829	36.8%
~ 양	B / Yamagata	0	0	0	0	0	0	1	0	0	0	0	0	0	1	629	30.6%
	B / Victoria	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	B / no lineage	3	0	0	0	0	1	1	1	0	0	1	2	1	10		
	A / 2009 H1N1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	A / 2012 H3N2	109	18	8	8	8	4	13	3	6	1	0	1	0	179	427	
Sussex	A / no subtype	92	58	26	14	14	14	8	2	4	6	0	0	1	239		19.0%
က္လ	B / Yamagata	0	0	0	0	0	0	0	0	0	0	0	3	1	4		
	B / Victoria	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	B / no lineage	1	0	0	0	0	0	0	0	1	1	0	1	1	5		

Table 1b. Influenza positive¹ cases reported² statewide and county by age group, Delaware 2014-15

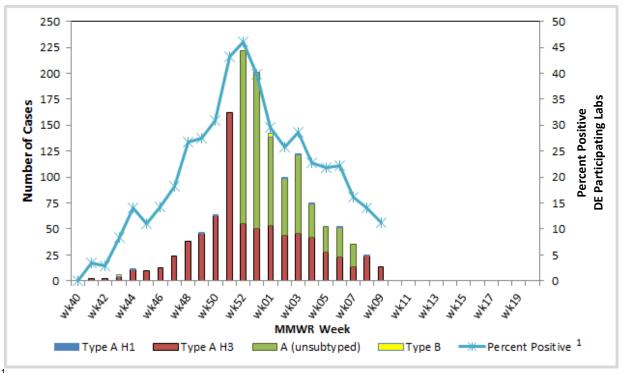
	irmed Flu Cases ge Group	Wk 40- 50	Wk 51	Wk 52	Wk 53	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	YTD	YTD Total	YTD County %
111	0-4 years	45	58	73	29	24	24	14	17	5	12	4	5	2	312		
STATEWIDE	5-24 years	165	154	129	31	39	38	26	22	19	14	10	2	4	653		
Ē	25-49 years	83	46	84	58	35	23	32	21	12	10	9	3	7	423	2,253	
.¥	50-64 years	30	23	49	43	18	20	24	14	14	12	6	8	2	263	2,200	
0)	65+ years	48	49	116	115	77	44	50	24	19	32	12	9	7	602		
	0-4 years	5	21	33	6	7	8	7	4	4	12	2	3	1	113		
, te	5-24 years	20	56	70	11	16	14	12	8	2	7	8	1	4	229		
ew Cast County	25-49 years	17	18	32	25	21	9	20	12	2	6	2	0	4	168	997	44.3%
New Castle County	50-64 years	7	4	29	23	7	10	17	7	4	5	4	6	1	124	ļ	
z	65+ years	10	25	60	78	53	33	33	16	13	21	9	7	5	363		
	0-4 years	14	26	30	20	16	12	5	12	1	0	2	2	0	140		
_	5-24 years	53	67	51	16	17	19	10	14	17	4	2	1	0	271		
Kent	25-49 years	25	17	48	29	9	11	8	7	5	3	7	1	2	172	829	36.8%
중정	50-64 years	5	13	15	14	9	8	5	5	7	4	2	1	0	88		
	65+ years	13	7	49	32	16	7	8	8	3	10	3	0	2	158		
	0-4 years	26	11	10	3	1	4	2	1	0	0	0	0	1	59		
t č	5-24 years	92	31	8	4	6	5	4	0	0	3	0	0	0	153		
Sussex	25-49 years	41	11	4	4	5	3	4	2	5	1	0	2	1	83	427	19.0%
တပ	50-64 years	18	6	5	6	2	2	2	2	3	3	0	1	1	51		
	65+ years	25	17	7	5	8	4	9	0	3	1	0	2	0	81		

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

MMWR Week 9 = March 1-7, 2015

Based on patients with positive nucleic acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest results reported to the Division of a specific acid of viral culture lest reported to the Division of a specific acid of viral culture lest reported to the Division of a specific acid of viral culture lest reported to the Division of a specific acid of viral culture lest reported to the Division of a specific acid of viral culture lest reported to the Division of a specific acid of viral culture lest reported to the Division of a specific acid of viral culture lest reported to the Division of a specific acid of viral culture lest reported to the Division of a specific acid of viral culture lest reported to the Division of a specific acid of viral culture lest reported to the Division of viral culture lest reported to the Division of viral culture lest reported to the Division of viral capability, these influenza cases will be categorized as Influenza B, no lineage identified.

Figure 1. Confirmed cases¹ of influenza by type and subtype/lineage, Delaware 2014-15*



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

	italized Flu s by Age Group	Wk 40- 50	Wk 51	Wk 52	Wk 53	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	YTD	YTD Total	YTD County %
	0-4 years	3	1	7	2	0	2	0	0	0	0	0	0	0	15		
STATEWIDE	5-24 years	4	2	6	2	4	0	0	2	1	0	1	1	3	26		
Ī	25-49 years	3	6	7	12	9	5	7	7	1	2	2	0	3	64	592	
T.	50-64 years	4	5	18	21	9	6	12	4	3	2	2	1	1	88		
0)	65+ years	20	27	73	89	58	28	35	15	11	25	8	7	3	399		
	0-4 years	0	0	4	0	0	0	0	0	0	0	0	0	0	4		
y the	5-24 years	2	2	5	2	3	0	0	2	1	0	1	1	3	22		
w Cast County	25-49 years	3	4	5	9	7	4	5	7	0	2	1	0	3	50	429	72.5%
New Castle County	50-64 years	2	0	14	18	6	5	10	3	2	1	2	1	1	65		
Z	65+ years	8	17	41	67	48	22	30	11	9	17	8	7	3	288		
	0-4 years	1	1	1	1	0	1	0	0	0	0	0	0	0	5		
	5-24 years	2	0	1	0	1	0	0	0	0	0	0	0	0	4		
Kent	25-49 years	0	1	2	3	1	1	1	0	0	0	1	0	0	10	112	18.9%
ㅈ 호	50-64 years	1	4	4	3	2	1	1	1	1	1	0	0	0	19		
	65+ years	2	2	28	18	5	3	4	4	1	7	0	0	0	74		
	0-4 years	2	0	2	1	0	1	0	0	0	0	0	0	0	6		
ıty şe	5-24 years	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sussex	25-49 years	0	1	0	0	1	0	1	0	1	0	0	0	0	4	51	8.6%
S O	50-64 years	1	1	0	0	1	0	1	0	0	0	0	0	0	4	٥.	0.070
	65+ years	10	8	4	4	5	3	1	0	1	1	0	0	0	37		

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

Influenza- Related	Wk 40- 46	Wk 47	Wk 48	Wk 49	Wk 50	Wk 51	Wk 52	Wk 53	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	YTD
Deaths	0	2	0	0	0	0	1	3	5	5	3	1	2	0	4	2	0	28

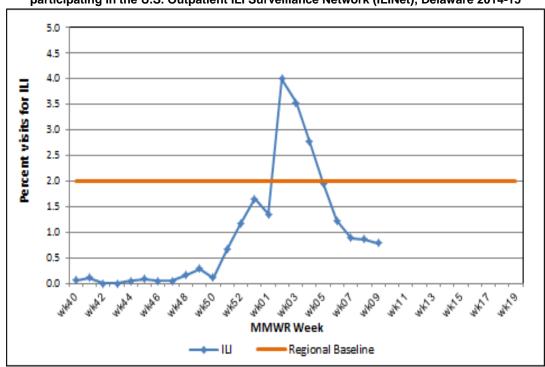
Table 4. Annual number of influenza cases reported by flu season, Delaware 2004-05 through 2014-15

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	1,479
2011 – 2012	267
2012 – 2013	1,781
2013 – 2014	1,842
2014 – 2015 (YTD)	2,253

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.

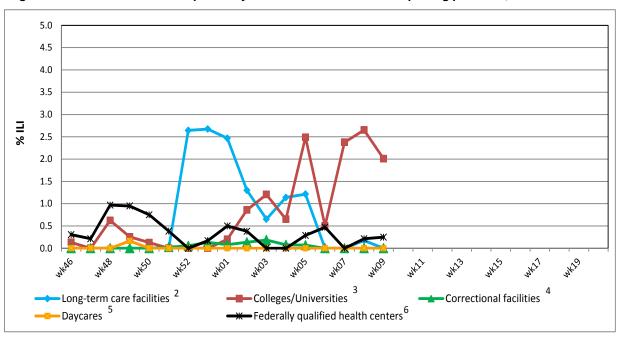
Figure 2. Percentage of visits for influenza-like illness reported by sentinel providers¹ participating in the U.S. Outpatient ILI Surveillance Network (ILINet), Delaware 2014-15



¹ Eleven of 16 sentinel providers reported.

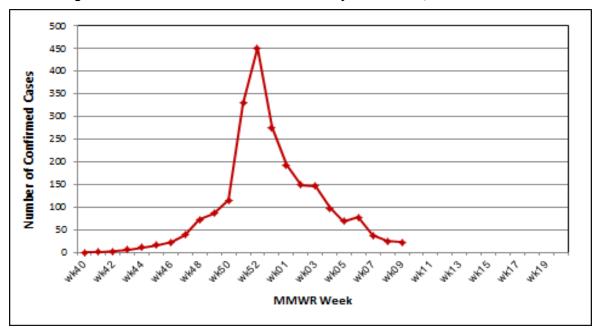
² Regional baseline is calculated by CDC using non-influenza weeks from the previous three influenza seasons. Delaware is in Region 3 that includes DE, DC, MD, PA, VA and WV.

Figure 3. Influenza-like illness reported by influenza surveillance ILI reporting partners¹, Delaware 2014-15



¹ ILINet reporting partners include long-term care facilities, colleges / universities, correctional facilities, daycare facilities and federally qualified health centers (FQHCs).

Figure 4. Number of confirmed influenza cases by MMWR week, Delaware 2014-15



Note: Data on the percentage of Delaware emergency department visits related to influenza (formerly Figure 4) are not available from week 5 on.

² % ILI= percentage of residents with ILI symptoms. Seven 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; Ten facilities reported.

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

^{6 %} ILI= percentage of visits for ILI at FQHCs; LaRed (Seaford & Georgetown) and Henrietta Johnson Medical Center (Wilmington & Southbridge).

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.

Summary of International Influenza Activity

Globally, influenza activity remained high in the northern hemisphere with influenza A(H3N2) viruses predominating. Some countries in Africa, Asia and southern part of Europe reported an increased influenza A(H1N1)pdm09 activity. In North America, the influenza activity remained elevated following the influenza peak. Influenza A(H3N2) remained the dominant virus detected this season. In the United States, ILI activity (3%) remained above the national baseline of 2%. Influenza detections (12.1% positivity) continued to decrease while influenza A (not subtyped) and influenza A(H3) predominated. Nearly 70 percent (69.7%) of influenza A(H3N2) strains characterized differ from the current vaccine strain. ILI activity (2.4%) decreased this week but remained above the national baseline of 2.0%. In Canada, ILI activity decreased this week and is within expected levels. Influenza A detections continued to decrease while those of influenza B continue to increase. In the Caribbean, respiratory virus activity remained low with the exception of Puerto Rico, where influenza activity remained high but decreasing, and Jamaica, where active circulation of A(H3N2) has been reported.

In Europe, the influenza season was at its height, particularly in central and western countries. Influenza A(H3N2) virus continued to predominate this season. Influenza activity continues to increase in eastern and central countries of the WHO European Region, but is decreasing in western countries. In northern Africa and the Middle East, influenza activity was decreasing in most of the region and Influenza A was predominant. In the temperate countries of Asia, influenza activity decreased from its peak in northern China and Mongolia, but continued to increase in the Republic of Korea. Influenza A(H3N2) virus predominated. In the southern hemisphere, influenza activity continued at inter-seasonal levels.

Reference: World Health Organization (WHO), 2015. Influenza Update number 232 (3/9/15). Retrieved on March 11, 2015, from 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 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.