



Delaware Weekly Influenza Report

MMWR Week 2 (January 11 – 17, 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 2 (January 11 - 17, 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 44 states was reported as widespread. Guam, Puerto Rico, the U.S. Virgin Islands and five states (Alabama, Georgia, Hawaii, Minnesota and Tennessee) 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 2, there were 141 laboratory-confirmed cases of influenza reported among Delaware residents, bringing the total number of laboratory-confirmed cases this season to 1,748. Reports of influenza-like illness (ILI) received from participating providers, facilities and institutions indicated a “moderate activity” level in the community. The proportion of outpatient visits for influenza-like illness (ILI) was 4.1% in Delaware, above the regional baseline of 2.0%, and 4.5% nationally.

Level of Influenza Activity in Delaware, MMWR Week 2:

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. 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.	

¹ 2014-2015 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 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	Wk 2	YTD	YTD Total	YTD County %
STATEWIDE	A / 2009 H1N1	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	4	1,748	
	A / 2012 H3N2	0	1	2	1	9	8	13	23	33	37	47	88	61	48	49	37	457		
	A / no subtype	0	0	0	2	2	7	9	16	40	47	66	240	378	228	138	102	1,275		
	B / Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	3		
	B / Victoria	0	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	1	1	1	8		
New Castle County	A / 2009 H1N1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	709	40.6%
	A / 2012 H3N2	0	0	0	1	1	0	1	3	6	10	20	53	40	33	32	21	221		
	A / no subtype	0	0	0	0	0	0	0	1	3	3	7	69	177	110	67	45	482		
	B / Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	2		
	B / Victoria	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1		
	B / no lineage	0	0	0	1	0	0	0	0	0	1	0	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	0	3	668	38.2%
	A / 2012 H3N2	0	0	0	0	0	1	0	4	5	5	9	17	13	7	9	12	82		
	A / no subtype	0	0	0	0	0	1	1	4	16	23	38	113	177	104	57	43	577		
	B / Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1		
	B / Victoria	0	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	1	1	1	5		
Sussex County	A / 2009 H1N1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	371	21.2%
	A / 2012 H3N2	0	1	2	0	8	7	12	16	22	22	18	18	8	8	8	4	154		
	A / no subtype	0	0	0	2	2	6	8	11	21	21	21	58	24	14	14	14	216		
	B / Yamagata	0	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	0		
	B / no lineage	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1		

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

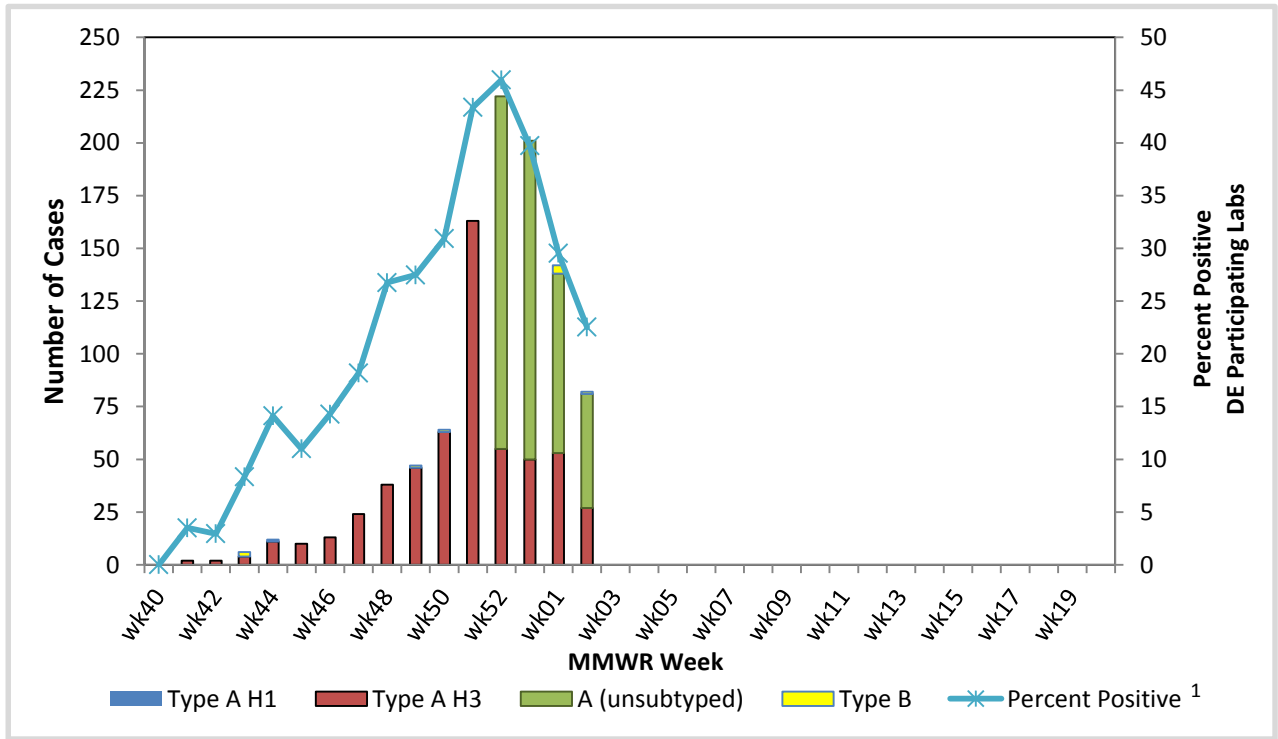
Confirmed Flu Cases by Age Group		Wk 40	Wk 41	Wk 42	Wk 43	Wk 44	Wk 45	Wk 46	Wk 47	Wk 48	Wk 49*	Wk 50	Wk 51	Wk 52	Wk 53	Wk 1	Wk 2	YTD	YTD Total	YTD County %
STATEWIDE	0-4 years	0	1	1	2	2	3	4	6	6	8	12	58	65	29	23	24	244	1,748	
	5-24 years	0	0	1	3	6	10	8	17	38	28	54	154	129	31	39	38	556		
	25-49 years	0	0	0	0	1	3	5	7	13	29	24	46	83	58	34	22	325		
	50-64 years	0	0	0	0	1	0	1	5	8	7	8	23	49	43	17	19	181		
	65+ years	0	0	0	1	1	0	4	4	8	13	17	48	116	115	77	38	442		
New Castle County	0-4 years	0	0	0	1	0	0	0	0	0	1	3	21	26	6	6	8	72	709	40.6%
	5-24 years	0	0	0	0	0	0	0	1	2	4	13	56	70	11	16	14	187		
	25-49 years	0	0	0	0	1	0	0	2	4	6	4	18	32	25	20	8	120		
	50-64 years	0	0	0	0	0	0	1	1	2	1	2	4	29	23	6	9	78		
	65+ years	0	0	0	1	0	0	0	0	1	2	6	24	60	78	53	27	252		
Kent County	0-4 years	0	0	0	1	0	1	1	0	3	3	5	26	30	20	16	12	118	668	38.2%
	5-24 years	0	0	0	0	0	1	0	6	12	12	22	67	51	16	17	19	223		
	25-49 years	0	0	0	0	0	1	0	1	3	7	13	17	48	29	9	11	139		
	50-64 years	0	0	0	0	0	0	0	0	2	1	2	13	15	14	9	8	64		
	65+ years	0	0	0	0	0	0	0	1	1	5	6	7	49	32	16	7	124		
Sussex County	0-4 years	0	1	1	0	2	2	3	6	3	4	4	11	9	3	1	4	54	371	21.2%
	5-24 years	0	0	1	3	6	9	8	10	24	12	19	31	8	4	6	5	146		
	25-49 years	0	0	0	0	0	2	5	4	6	16	7	11	3	4	5	3	66		
	50-64 years	0	0	0	0	1	0	0	4	4	5	4	6	5	6	2	2	39		
	65+ years	0	0	0	0	1	0	4	3	6	6	5	17	7	5	8	4	66		

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, 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*



¹ 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	Wk 2	YTD	YTD Total	YTD County %
STATEWIDE	0-4 years	0	0	0	1	0	0	0	1	1	0	0	1	5	2	0	2	13	424	
	5-24 years	0	0	0	0	0	0	0	1	1	1	1	2	6	2	4	0	18		
	25-49 years	0	0	0	0	0	0	0	0	0	2	1	6	7	12	9	5	42		
	50-64 years	0	0	0	0	0	0	0	0	1	0	3	0	5	18	21	8	62		
	65+ years	0	0	0	1	1	0	2	0	0	4	12	26	72	89	58	24	289		
New Castle County	0-4 years	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	291	68.6%
	5-24 years	0	0	0	0	0	0	0	0	1	0	1	2	5	2	3	0	14		
	25-49 years	0	0	0	0	0	0	0	0	0	2	1	4	5	9	7	4	32		
	50-64 years	0	0	0	0	0	0	0	1	0	1	0	0	14	18	5	5	44		
	65+ years	0	0	0	1	0	0	0	0	0	1	6	16	41	67	48	18	198		
Kent County	0-4 years	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	1	5	89	21.0%
	5-24 years	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	4		
	25-49 years	0	0	0	0	0	0	0	0	0	0	0	1	2	3	1	1	8		
	50-64 years	0	0	0	0	0	0	0	0	0	1	0	4	4	3	2	1	15		
	65+ years	0	0	0	0	0	0	0	0	0	1	1	2	27	18	5	3	57		
Sussex County	0-4 years	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	1	5	44	10.4%
	5-24 years	0	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	0	2		
	50-64 years	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	3		
	65+ years	0	0	0	0	1	0	2	0	0	2	5	8	4	4	5	3	34		

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	Wk 2	YTD Total
	0	0	0	0	0	0	1	1	0	0	0	0	1	3	5	5	16

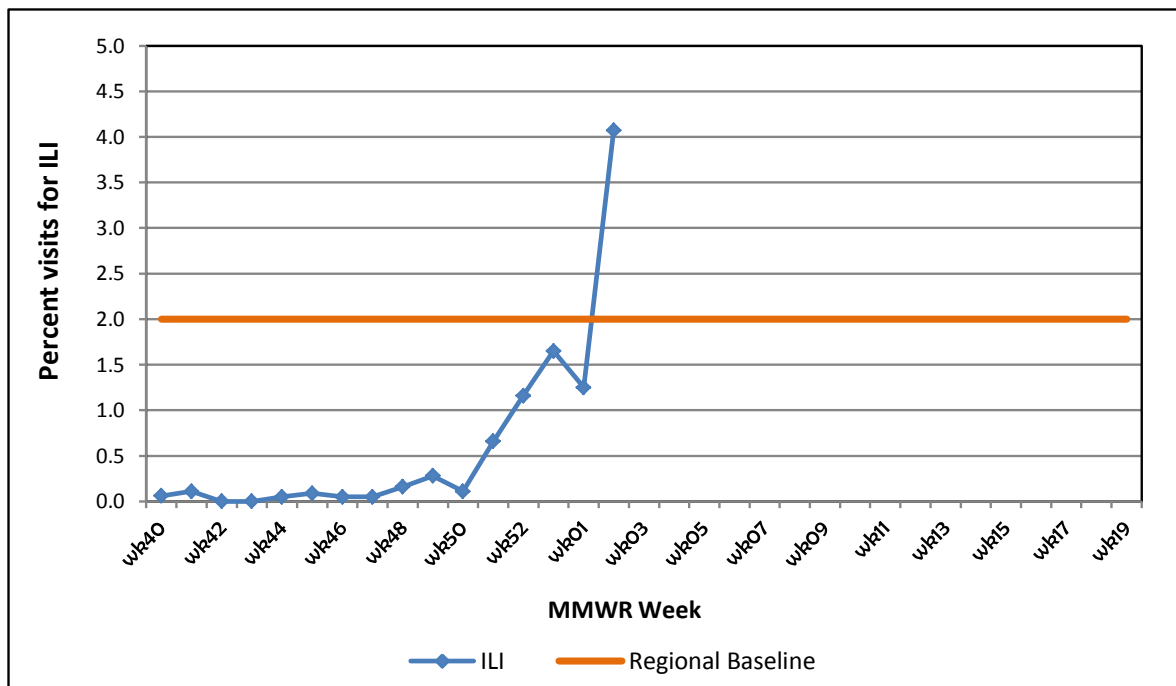
Table 4. Annual number of influenza cases reported by flu season, Delaware 2004-05 through 2014-15

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)	1,748

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.

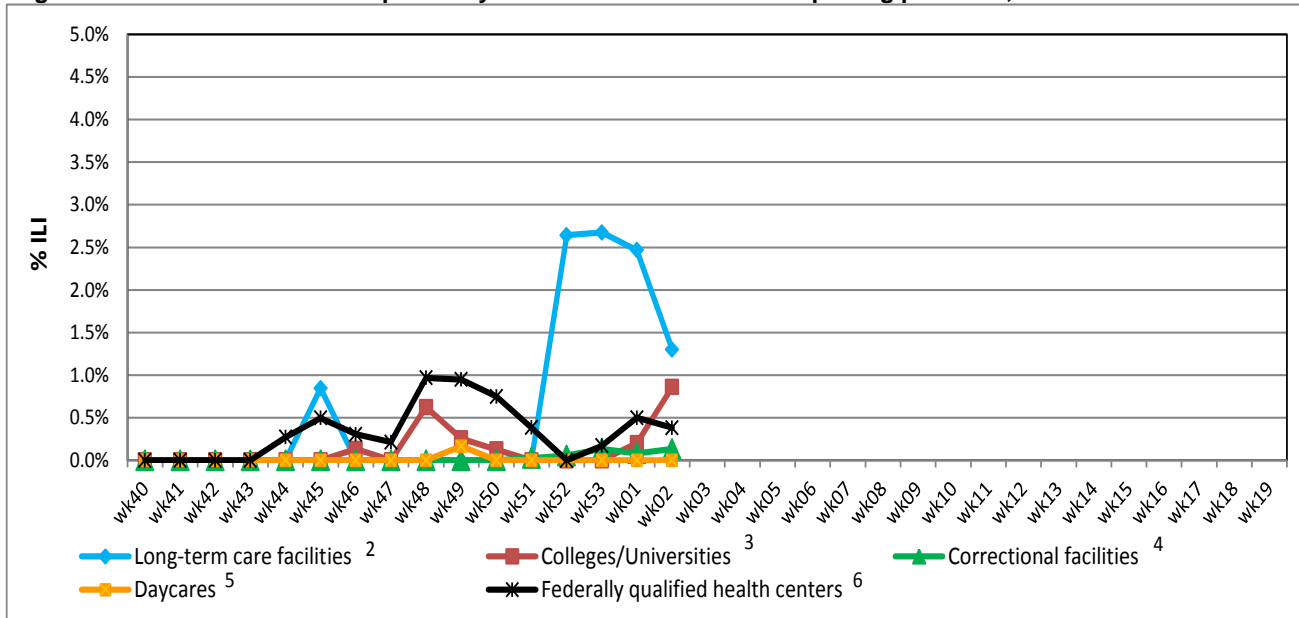
Figure 2. Percentage of visits for influenza-like illness reported by sentinel providers¹ participating in the U.S. Outpatient ILI Surveillance Network (ILINet), Delaware 2014-15



¹ 12 of 16 sentinel providers reported.

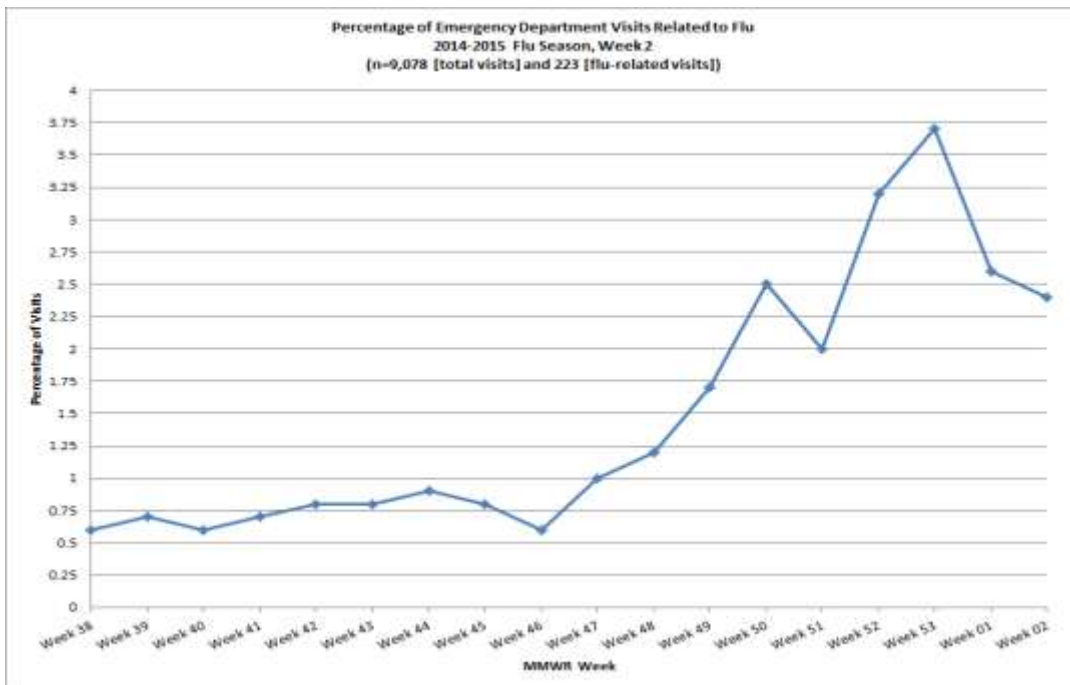
² Regional baseline is calculated by CDC using non-influenza weeks from the previous three influenza seasons. Delaware is a member of Region 3 that includes DE, DC, MD, PA, VA and WV.

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.
² % ILI= percentage of residents with ILI symptoms. Nine of 20 LTCFs reported.
³ % ILI= percentage of student visits for ILI; Two universities reported.
⁴ % ILI= percentage of visits for ILI at the correctional facility; Nine of 10 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).
⁷ 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)*, 2014-15



* 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/ 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.