



Delaware Weekly Influenza Report
Week 18 (April 27 – May 3, 2014)
Delaware Division of Public Health

National Synopsis 2013 – 2014

National data are updated Friday of each week. Please visit <http://www.cdc.gov/flu/weekly/> for the most current information. Influenza activity continued to decrease in the United States, during week 18(ending May 3, 2014). Four states and Guam reported widespread activity; two states reported regional activity; 8 states reported local activity; the District of Columbia, Puerto Rico and 32 states reported sporadic activity; the U.S. Virgin Islands and four states reported no influenza activity.

Surrounding states in our region reported sporadic (D.C., PA and WV); local (VA and MD) influenza activity.

Both national and state data are provisional and subject to change as additional reports are received.

Delaware Influenza Surveillance 2013 – 2014

There were 37 confirmed cases of influenza reported during week18 and the level of influenza activity was designated “Sporadic” based on available data. The rates of influenza like illness (ILI) reported by sentinel providers was 0.058%, well below the regional baseline of 2.0%.

Level of Influenza Activity¹ in Delaware, Week 18

Sporadic	Small numbers of laboratory-confirmed ² influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.
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 ² cases of influenza and no reported increase in the number of cases of ILI.
Sporadic: Small numbers of laboratory-confirmed ² 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 ² influenza in a single region of the state.
Regional: This level does not apply to Delaware. Per CDC, regional does not apply to states with ≤ 4 regions ³ .
Widespread: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed ² influenza in at least half the regions of the state with recent laboratory evidence of influenza in the state.

¹ Activity levels may not be comparable across states because some states may use different definitions for lab confirmation of influenza cases. Some states may include rapid diagnostic tests as confirmatory while Delaware considers viral culture or PCR as confirmatory.

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.

Table 1a. Influenza positive¹ cases reported², statewide and by county.

Confirmed Flu Cases by Subtype		Wks 40-52	Wks 01-08	Wk 09	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14	Wk 15	Wk 16	Wk 17	Wk 18	YTD	YTD Total	YTD County%
Statewide	A (2009 H1)	88	819	62	48	52	34	16	8	7	0	0	1	1135	1759	
	A (H3)	4	9	1	3	4	9	13	8	12	11	1	5	80		
	A (subtyping not performed)	18	199	18	8	10	12	12	14	7	4	9	13	324		
	B	6	6	6	6	6	19	25	38	48	28	14	18	220		
New Castle County	A (2009 H1)	20	321	18	13	17	10	8	3	2	0	0	0	410	719	41%
	A (H3)	3	4	0	2	2	7	8	5	6	7	1	1	46		
	A (subtyping not performed)	0	113	7	4	3	3	4	0	2	1	6	4	147		
	B	4	3	5	5	4	10	10	14	38	10	5	8	116		
Kent County	A (2009 H1)	26	325	28	21	23	14	5	5	4	0	0	1	452	662	38%
	A (H3)	0	2	1	0	1	2	3	2	2	2	0	3	18		
	A (subtyping not performed)	10	54	8	2	5	8	5	10	4	1	1	3	111		
	B	0	2	1	1	2	9	13	19	6	16	6	6	81		
Sussex County	A (2009 H1)	42	173	16	14	12	10	3	0	1	0	0	0	271	378	21%
	A (H3)	0	3	0	1	1	0	2	1	4	2	0	1	15		
	A (subtyping not performed)	8	35	3	2	2	1	3	4	1	2	2	6	69		
	B	2	1	0	0	0	0	2	5	4	2	3	4	23		

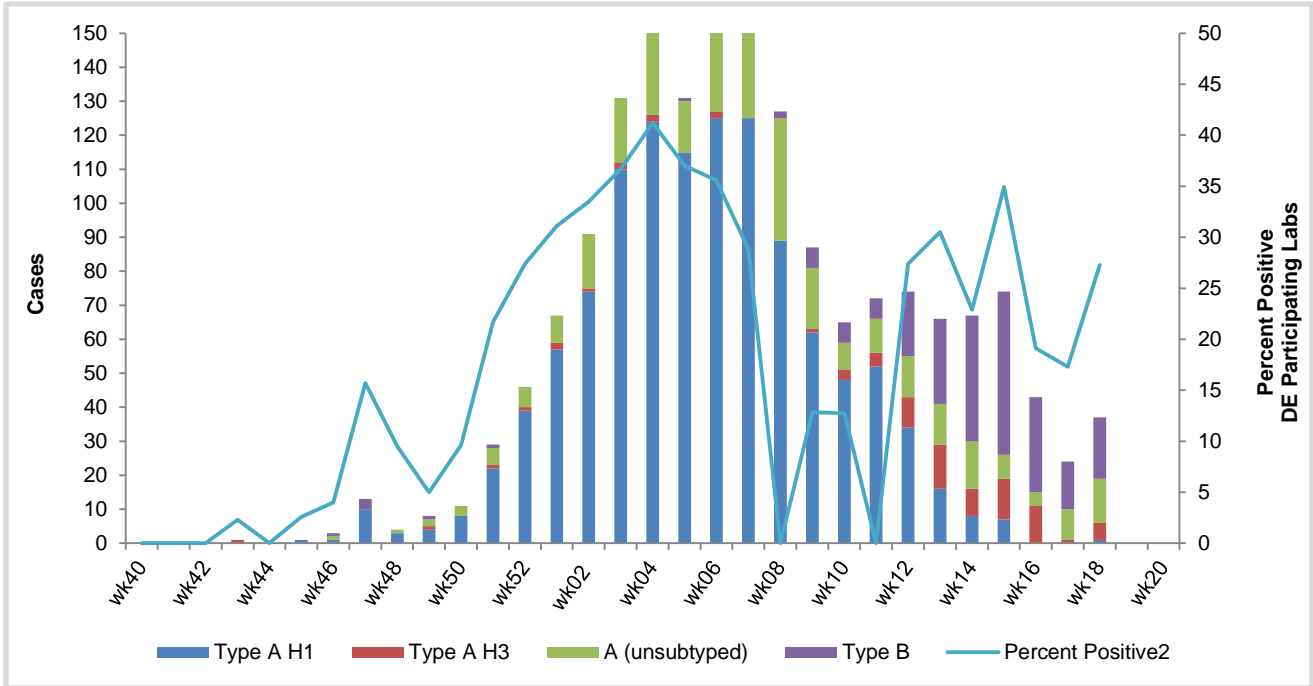
Table 1b. Age subgroup-specific influenza positive cases.

Confirmed Flu Cases by Age Group		Wks 40-52	Wks 01-08	Wk 09	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14	Wk 15	Wk 16	Wk 17	Wk 18	YTD	YTD Total	YTD County%
Statewide	0-4 years	33	180	24	6	18	8	11	11	9	3	0	4	307	1759	
	5-24 years	23	256	18	11	20	20	25	24	17	11	4	3	432		
	25-49 years	42	359	30	24	22	26	14	15	19	9	8	13	581		
	50-64 years	13	176	10	17	8	13	4	11	9	8	5	6	280		
	65+ years	5	63	4	7	4	7	12	7	20	12	7	11	159		
New Castle County	0-4 years	8	80	7	2	7	4	6	5	3	1	0	1	124	719	41%
	5-24 years	8	98	4	4	8	9	13	11	11	5	4	1	176		
	25-49 years	10	149	10	6	5	10	5	1	13	4	3	3	219		
	50-64 years	2	78	7	8	4	4	1	3	4	6	3	3	123		
	65+ years	0	34	1	4	2	3	5	2	17	2	2	5	77		
Kent County	0-4 years	12	60	14	3	7	4	4	6	4	1	0	0	115	663	38%
	5-24 years	3	100	6	1	11	8	11	9	5	4	0	2	160		
	25-49 years	16	137	13	12	10	9	4	12	4	2	2	6	227		
	50-64 years	4	65	2	7	3	9	3	6	3	2	1	3	108		
	65+ years	2	21	3	1	0	3	4	3	0	10	4	2	53		
Sussex County	0-4 years	13	40	3	1	4	0	1	0	2	1	0	3	68	377	21%
	5-24 years	12	58	8	6	1	3	1	4	1	2	0	0	96		
	25-49 years	16	73	7	6	7	7	5	2	2	3	3	4	135		
	50-64 years	7	33	1	2	1	0	0	2	2	0	1	0	49		
	65+ years	3	8	0	2	2	1	3	2	3	0	1	4	29		

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

² Reports are by date of specimen collection, not the date the results are obtained. As a result, prior weeks' counts may be adjusted to reflect additional cases received.

Figure 1. Confirmed cases¹ of influenza by type and subtype, Delaware 2013-2014 Influenza Season.



¹ Based on patients with positive nucleic acid or viral culture test results reported to the Delaware Division of Public Health. There were 37 confirmed cases of influenza reported during MMWR 18. Confirmed cases are reported for the date the specimen was collected; not the date that positive test result was reported; this is different from the percent positive calculation.

² Percent positive= (number of specimens PCR positive for flu reported during the week) / (total number of specimens submitted during the week); lab data reflect the date the test result was reported and not the date that the specimen was collected. The percent positive reflects only the percent testing positive for specimens submitted by WHO/NREVSS Collaborating Laboratories in Delaware (includes Christiana Care and the Delaware Public Health Laboratory). The percent positive does not reflect specimens tested by hospitals not participating in the WHO/NREVSS Collaborating Labs in Delaware.

Table 2. Influenza-related hospitalizations, Delaware 2013-2014

Flu Related Hospitalizations		Wks 40-52	Wks 01-09	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14	Wk 15	Wk 16	Wk 17	Wk 18	YTD	YTD Total	YTD County%
Statewide	0-4 years	8	33	0	5	1	0	2	2	0	0	1	52	412	
	5-24 years	1	35	1	3	2	3	3	3	1	1	1	54		
	25-49 years	0	61	3	1	4	3	1	10	3	2	3	91		
	50-64 years	4	74	9	3	6	2	5	2	3	3	2	113		
	65+ years	2	41	7	4	5	9	5	12	8	2	7	102		
New Castle County	0-4 years	4	19	0	2	1	0	1	0	0	0	0	27	240	58%
	5-24 years	0	21	1	2	0	2	2	2	0	1	0	31		
	25-49 years	0	39	1	1	3	1	0	8	2	2	0	57		
	50-64 years	1	50	6	2	3	1	1	0	3	2	2	71		
	65+ years	0	22	4	2	3	4	2	10	2	2	3	54		
Kent County	0-4 years	4	10	0	2	0	0	1	1	0	0	0	18	123	30%
	5-24 years	1	10	0	1	2	1	0	0	0	0	1	16		
	25-49 years	0	14	2	0	1	2	1	1	1	0	1	23		
	50-64 years	2	21	2	1	3	1	2	1	0	0	0	33		
	65+ years	1	16	1	0	2	4	2	0	6	0	1	33		
Sussex County	0-4 years	0	4	0	1	0	0	0	1	0	0	1	7	49	12%
	5-24 years	0	4	0	0	0	0	1	1	1	0	0	7		
	25-49 years	0	8	0	0	0	0	0	1	0	0	2	11		
	50-64 years	1	3	1	0	0	0	2	1	0	1	0	9		
	65+ years	1	3	2	2	0	1	1	2	0	0	3	15		

Table 3. Influenza-related deaths, Delaware 2013-2014

Flu- Related Deaths	Wks 40-52	Wks 01-09	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14	Wk 15	Wk 16	Wk 17	Wk 18	Cumulative
	0	4	0	0	0	0	0	0	2	0	0	6

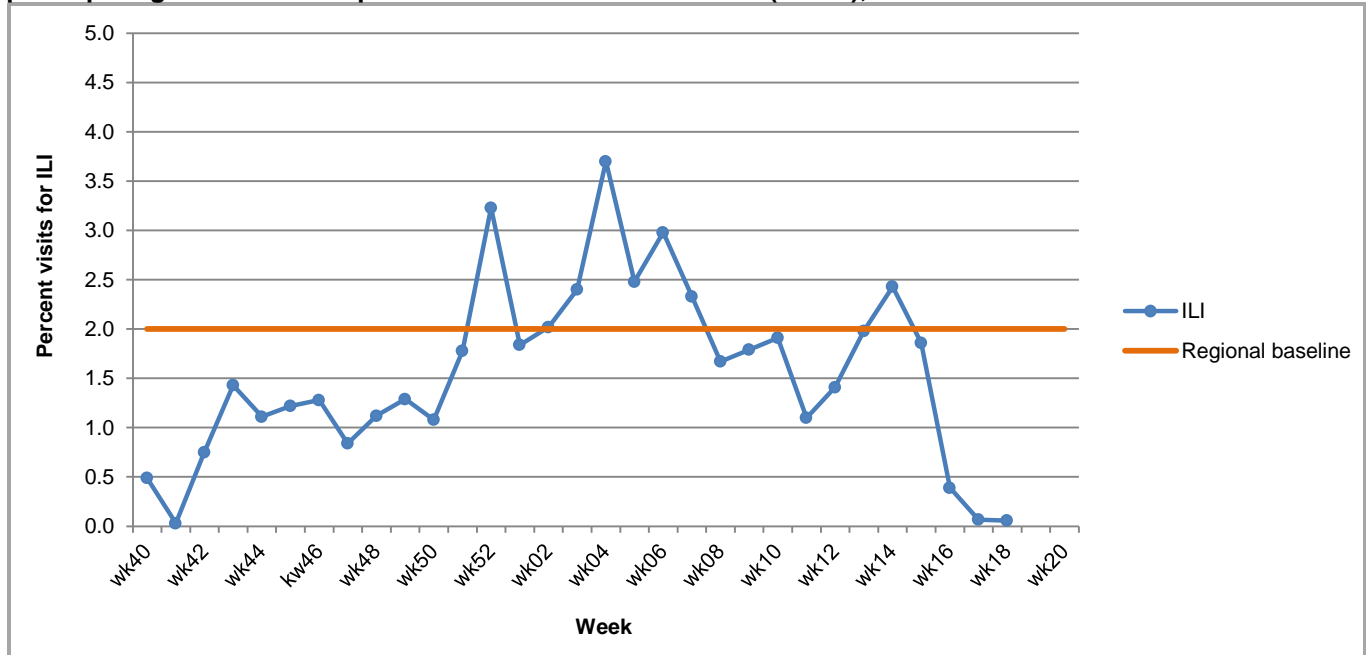
Table 4. Annual number of influenza cases reported by flu season, Delaware 2004-2013.

Influenza Season	Annual Flu Case Totals
2004 – 2005	995
2005 – 2006	541
2006 – 2007	508
2007 – 2008	1401
2008 – 2009	738
2009 – 2010	2247
2010 – 2011	1470
2011 – 2012	262
2012 – 2013	1773
2013 – 2014 (YTD)	1759

U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) (Sentinel) Provider Surveillance Network:

An ILINet (sentinel) provider conducts surveillance of 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.

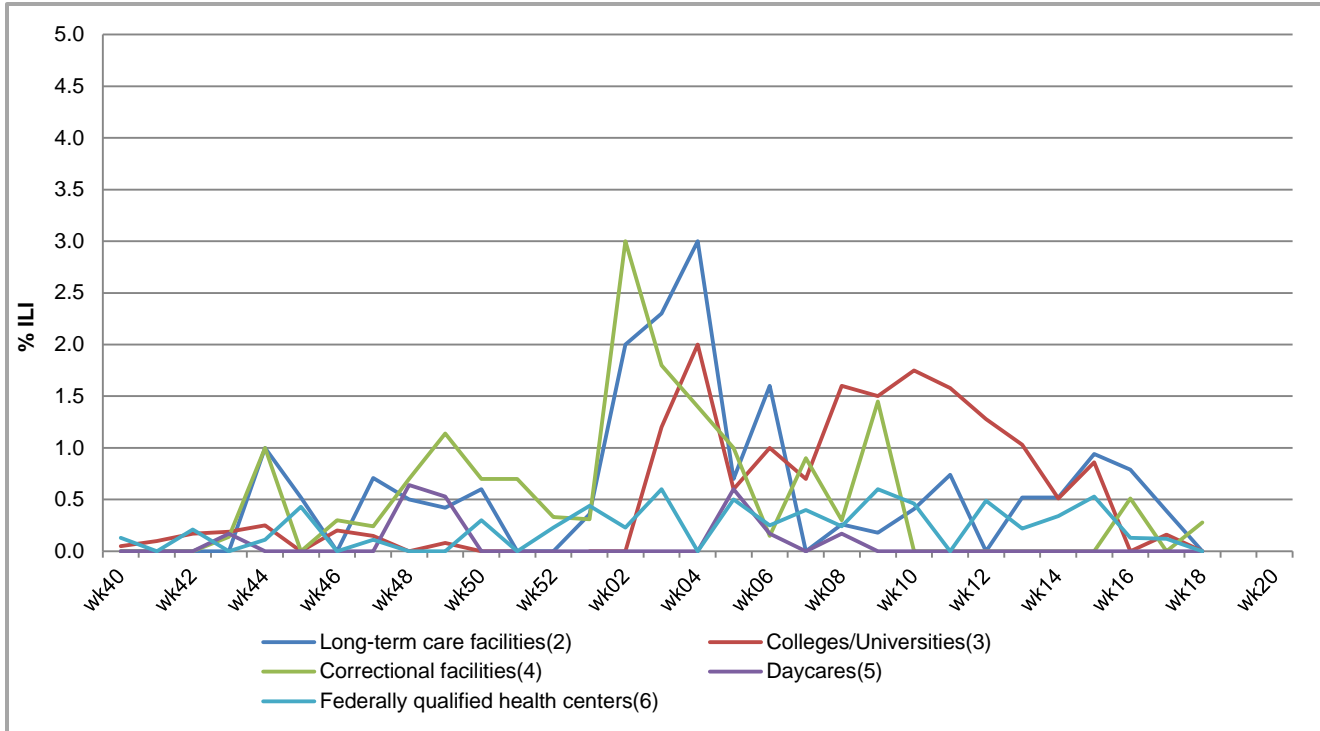
Figure 2. Percentage of visits for influenza-like illness (ILI) reported by sentinel healthcare providers¹ participating in the U.S. Outpatient ILI Surveillance Network (ILINet), Delaware 2013-2014.



¹ Eight of 11 sentinel providers reported during Week 18. Data are subject to change as additional reports are received.

² Regional baseline is calculated by CDC using non-influenza weeks from the previous 3 influenza seasons. Delaware is a member of Region 3 and includes DE, DC, MD, PA, VA, and WV. Regional baseline= 2.0%.

Figure 3. Influenza-Like Illness (ILI) reported by influenza surveillance reporting partners¹, Delaware 2013-2014.



¹ Reporting partners include long-term care facilities, colleges and universities, correctional facilities, daycares, and federally qualified health centers.

² % ILI= percentage of residents with ILI symptoms. Six of 19 LTCFs reported for MMWR 18.

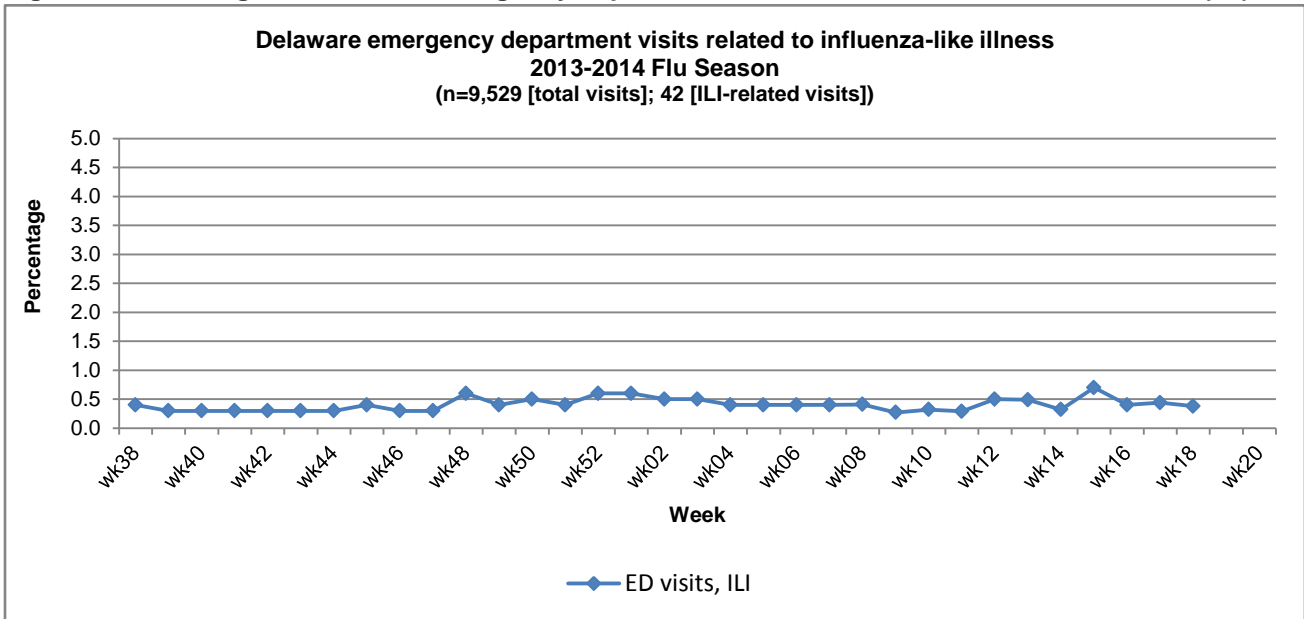
³ % ILI= percentage of student visits for ILI. Schools reporting include the University of Delaware, Delaware State University, and Wesley College.

⁴ % ILI= percentage of visits for ILI at the correctional facility. Five of 10 facilities reported for MMWR 18.

⁵ % ILI= percentage of children absent with ILI. One of 12 daycare providers reported for MMWR 18.

⁶ % ILI= percentage of visits for ILI at FQHCs. FQHCs reporting include LARED and Henrietta Johnson Medical Center.

Figure 4. Percentage of Delaware emergency department visits related to Influenza-like Illness (ILI).



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 as a result of 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 (DPHL) is limited by capacity to processing a maximum of 3 specimens per day from each reporting entity.

The Division of Public Health (DPH) is committed to serving you better. 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, please call the Office of Infectious Disease Epidemiology at 302-744-1033. For questions regarding influenza vaccination information, please call 302-744-1060.