



Delaware Weekly Influenza Report
Week 14 (March 30 – April 5, 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 most regions of the United States, during week 14(ending April 5, 2014). Five states reported widespread activity; four states and Guam reported regional activity; D.C. and 15 states reported local activity; 25 states and Puerto Rico reported sporadic activity; and one state and the U.S. Virgin Islands reported no influenza activity.

Surrounding states in our region reported sporadic (WV); and local (D.C., PA, 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 55 confirmed cases of influenza reported during week14 and the level of influenza activity was designated “Widespread” based on available data. The rates of influenza like illness (ILI) reported by sentinel providers was 2.43, above the regional baseline of 2.0%.

Level of Influenza Activity¹ in Delaware, Week 14

Widespread

Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed² 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-confirmed² cases of influenza and no reported increase in the number of cases of ILI.

Sporadic: Small numbers of laboratory-confirmed² 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-confirmed² 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 regions³.

Widespread: Outbreaks of influenza or increases in ILI cases and recent laboratory-confirmed² 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		Wk 40-52	Wk 01-04	Wk 05	Wk 06	Wk 07	Wk 08	Wk 09	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14	YTD	YTD Total	YTD County%
Statewide	A (2009 H1)	88	365	115	125	125	89	62	48	45	25	15	7	1109	1539	
	A (H3)	4	7	0	2	0	0	1	3	4	6	10	6	43		
	A (subtyping not performed)	18	69	15	38	41	36	18	7	11	15	11	13	292		
	B	6	1	1	1	1	2	6	6	5	16	21	29	95		
New Castle County	A (2009 H1)	20	165	43	47	41	25	18	13	11	4	7	2	394	592	39%
	A (H3)	3	2	0	2	0	0	0	2	2	4	5	3	23		
	A (subtyping not performed)	0	38	5	20	23	27	7	3	4	6	3	0	136		
	B	4	0	1	0	0	2	5	5	3	7	7	5	39		
Kent County	A (2009 H1)	26	150	45	48	50	32	28	21	22	14	5	5	446	604	39%
	A (H3)	0	2	0	0	0	0	1	0	1	2	3	2	11		
	A (subtyping not performed)	10	19	6	11	11	7	8	2	5	7	5	9	100		
	B	0	0	0	1	1	0	1	1	2	9	13	19	47		
Sussex County	A (2009 H1)	42	52	27	30	34	30	16	14	12	7	3	0	267	343	22%
	A (H3)	0	3	0	0	0	0	0	1	1	0	2	1	8		
	A (subtyping not performed)	8	13	4	7	7	4	3	2	2	2	3	4	59		
	B	2	1	0	0	0	0	0	0	0	0	0	1	5		

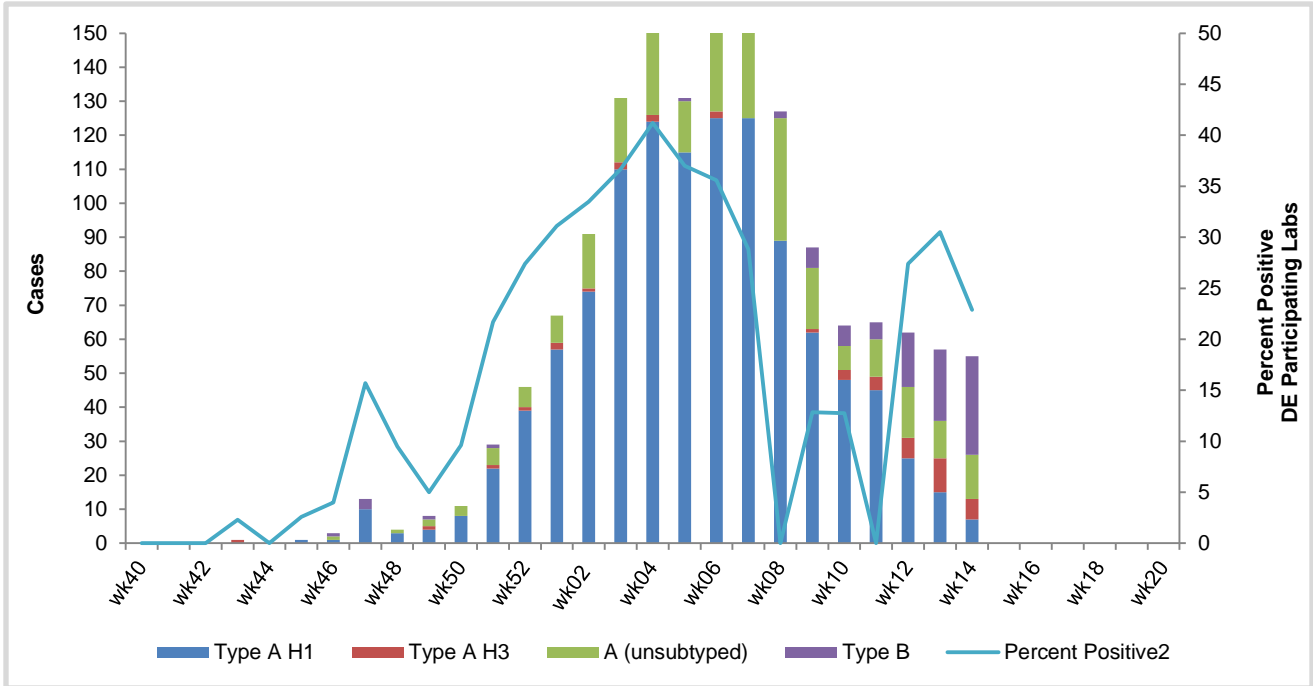
Table 1b. Age subgroup-specific influenza positive cases.

Confirmed Flu Cases by Age Group		Wk 40-52	Wk 01-04	Wk 05	Wk 06	Wk 07	Wk 08	Wk 09	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14	YTD	YTD Total	YTD County%
Statewide	0-4 years	33	78	24	29	30	19	24	6	14	4	8	7	276	1539	
	5-24 years	23	110	34	42	43	27	18	11	17	15	21	15	376		
	25-49 years	42	155	41	50	60	53	30	24	22	23	13	15	528		
	50-64 years	13	77	25	32	21	21	10	17	8	13	4	11	252		
	65+ years	5	23	7	13	13	7	4	6	4	7	11	7	107		
New Castle County	0-4 years	8	37	9	17	10	7	7	2	3	0	3	1	104	592	39%
	5-24 years	8	47	10	19	14	8	4	4	6	4	9	3	136		
	25-49 years	10	70	16	13	24	26	10	6	5	10	5	1	196		
	50-64 years	2	35	10	14	11	8	7	8	4	4	1	3	107		
	65+ years	0	14	4	6	5	5	1	3	2	3	4	2	49		
Kent County	0-4 years	12	24	8	6	15	7	14	3	7	4	4	6	110	605	39%
	5-24 years	3	48	15	14	12	11	6	1	10	8	11	8	147		
	25-49 years	16	60	16	25	23	13	13	12	10	8	4	12	212		
	50-64 years	4	32	9	11	5	8	2	7	3	9	3	6	99		
	65+ years	2	7	3	4	7	0	3	1	0	3	4	3	37		
Sussex County	0-4 years	13	17	7	6	5	5	3	1	4	0	1	0	62	342	22%
	5-24 years	12	15	9	9	17	8	8	6	1	3	1	4	93		
	25-49 years	16	25	9	12	13	14	7	6	7	5	4	2	120		
	50-64 years	7	10	6	7	5	5	1	2	1	0	0	2	46		
	65+ years	3	2	0	3	1	2	0	2	2	1	3	2	21		

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 55 confirmed cases of influenza reported during MMWR 14. 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	Wk 01-05	Wk 06	Wk 07	Wk 08	Wk 09	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14	YTD	YTD Total	YTD County%
Statewide	0-4 years	8	16	7	2	4	4	0	4	0	0	1	46	338	
	5-24 years	1	16	11	6	2	0	1	1	2	3	2	45		
	25-49 years	0	30	6	14	7	4	3	1	4	3	1	73		
	50-64 years	4	39	11	8	8	8	9	3	6	2	5	103		
	65+ years	2	20	7	8	4	2	6	4	5	8	5	71		
New Castle County	0-4 years	4	8	5	0	3	3	0	1	0	0	0	24	194	57.40%
	5-24 years	0	11	8	2	0	0	1	1	0	2	1	26		
	25-49 years	0	20	3	9	6	1	1	1	3	1	0	45		
	50-64 years	1	21	7	5	4	6	6	2	3	1	1	64		
	65+ years	0	10	4	5	2	1	3	2	3	3	2	35		
Kent County	0-4 years	4	5	1	2	1	1	0	2	0	0	1	17	109	32.25%
	5-24 years	1	5	1	3	1	0	0	0	2	1	0	14		
	25-49 years	0	6	2	3	1	2	2	0	1	2	1	20		
	50-64 years	2	10	3	2	4	2	2	1	3	1	2	32		
	65+ years	1	9	3	3	0	1	1	0	2	4	2	26		
Sussex County	0-4 years	0	3	1	0	0	0	0	1	0	0	0	5	35	10.35%
	5-24 years	0	0	2	1	1	0	0	0	0	0	1	5		
	25-49 years	0	4	1	2	0	1	0	0	0	0	0	8		
	50-64 years	1	1	1	1	0	0	1	0	0	0	2	7		
	65+ years	1	1	0	0	2	0	2	2	0	1	1	10		

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

Flu- Related Deaths	Wk 40-52	Wk 01-05	Wk 06	Wk 07	Wk 08	Wk 09	Wk 10	Wk 11	Wk 12	Wk 13	Wk 14	Cumulative
	0	1	0	2	1	0	0	0	0	0	0	4

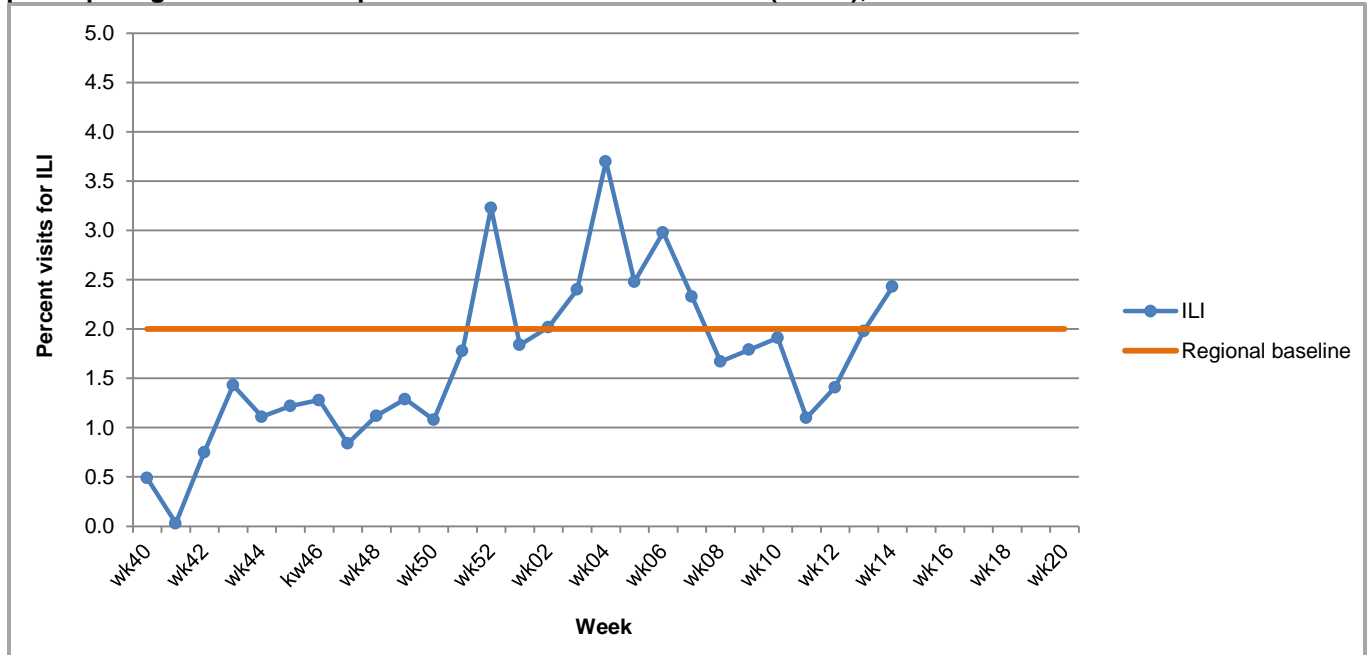
Table 4. Annual number of influenza cases reported by flu season, Delaware 2004-2013.

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)	1539

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.

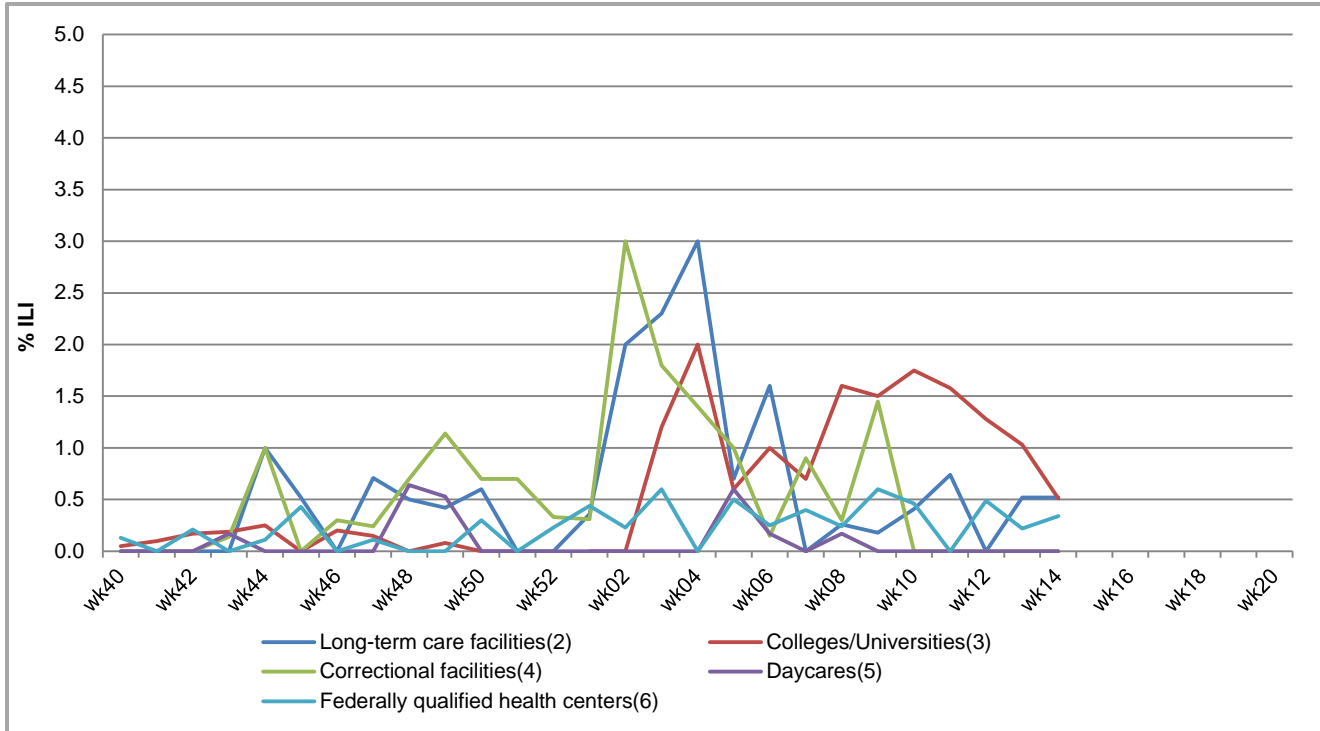
Figure 2. Percentage of visits for influenza-like illness (ILI) reported by sentinel healthcare providers¹ participating in the U.S. Outpatient ILI Surveillance Network (ILINet), Delaware 2013-2014.



¹ Eight of 11 sentinel providers reported during Week 14. 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. Seven of 19 LTCFs reported for MMWR 14.

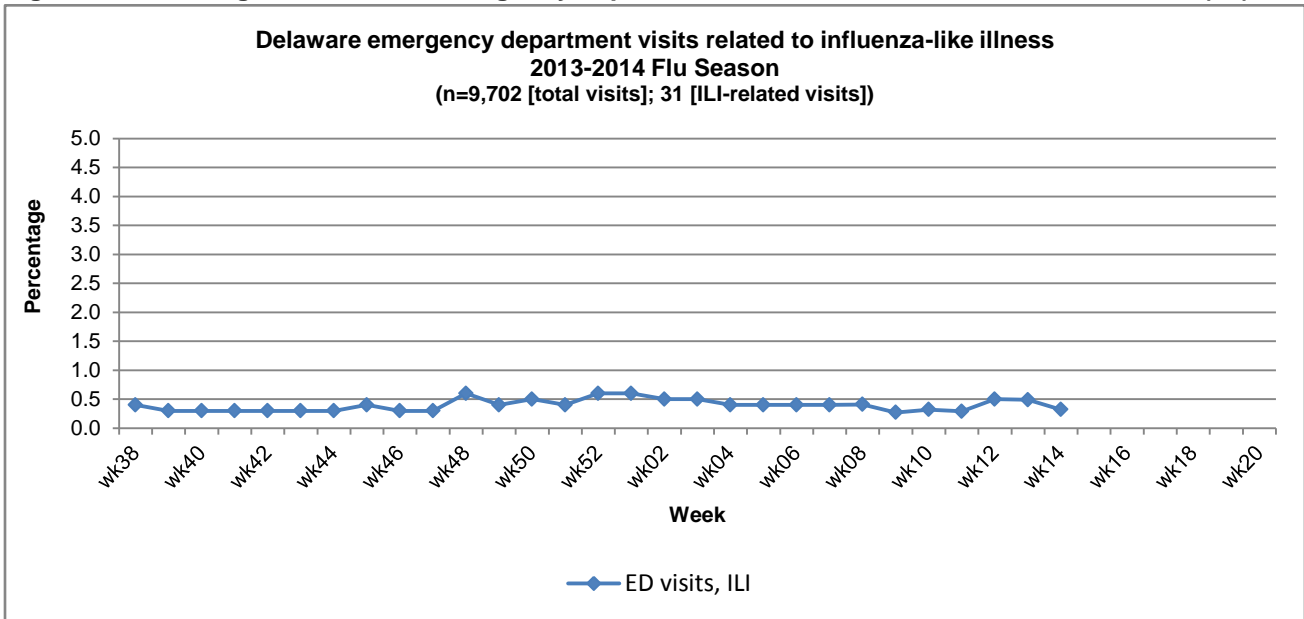
³ % ILI= percentage of student visits for ILI. Schools reporting include the University of Delaware, Delaware State University, and Wesley College.

⁴ % ILI= percentage of visits for ILI at the correctional facility. Seven of 10 facilities reported for MMWR 14.

⁵ % ILI= percentage of children absent with ILI. One of 12 daycare providers reported for MMWR 14.

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.