

Respiratory Virus Surveillance Report¹



New Jersey Department of Health Communicable Disease Service

Week ending October 12, 2013 (MMWR week 41)

SYNOPSIS

Influenza Activity Level ²							
State Activi	ty Week ending 10/12:						
	LOW	Surdey Control					
Current w	veek Last year: LOW	of the August State					
Re	egional ³ Data	day was					
Northwest	LOW	Ocean A					
Northeast	LOW	Buring on					
Central West	LOW	Salery Arturns					
Central East	LOW	Content and Content					
South	LOW	V					

ILI Activity ⁴								
	P	Percent ILI/Absenteeism Base						
	Current week (range by county)							
Long Term Care Facilities	0.71 (0.00, 3.07)	0.65	0.67	0.59 (0.62, 0.87)				
Schools (absenteeism)	2.94 (0.00, 5.28)	3.46	3.89	3.79 (4.70, 4.90)				
Emergency Departments	2.62 (0.00, 4.07)	2.85	3.06	2.49 (3.28, 4.31)				

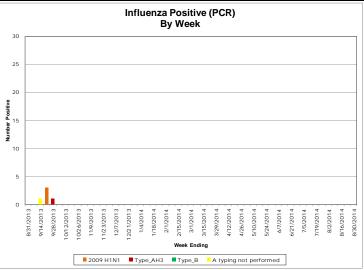
Viral Activity ⁷					
	Current Week	Past 3* Weeks	Cumulative* Total		
Influenza H1N1 (2009)	0	0	0		
Influenza H3N2	0	0	0		
Influenza B	0	0	0		
Respiratory Syncytial Virus (RSV)	4	-	4		
Rapid Influenza Tests	1	-	1		

ILINet Providers						
Current W	eek	Previous Week				
#of reporters	%ILI	#of reporters	%ILI			
15	1.43	18	1.19			

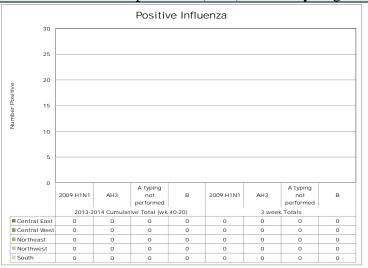
^{*} Four influenza positive specimens (3 2009H1N1, 1 AH3) have been detected prior to week 41. Three week and cumulative totals represent data reported from MMWR weeks 40 and 41. RSV and rapid data have a one week lag and therefore data presented represents data for week 40 only.

Virologic Surveillance⁷

Influenza Positive Specimens (PCR) - Result by Week



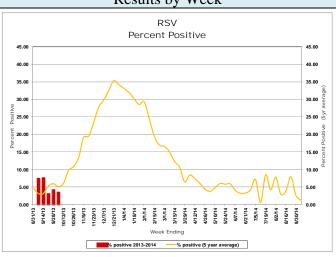
Influenza Positive Specimens (PCR)- Result by Region³



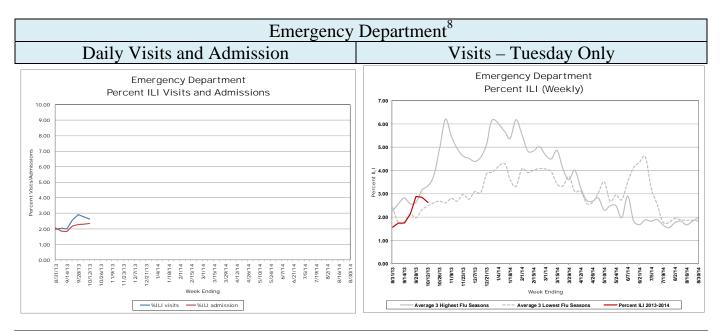
Influenza Rapid Antigen Result by Week

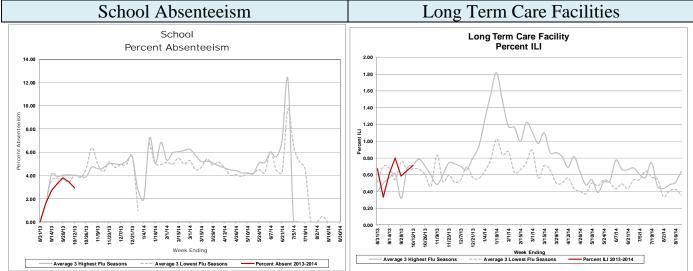
Rapid Influenza Tests Total Tested and Percent Positive 50.00 45.00 46.00 35

Respiratory Syncytial Virus (RSV) Results by Week



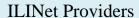
Influenza-like Illness Surveillance

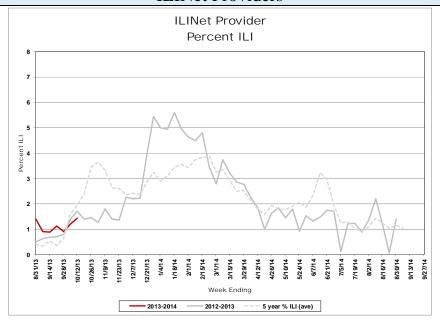




Respiratory Outbreaks in Long Term Care Facilities⁹

Cumulative outbreaks 2012-2013 season	0
No. outbreaks last 3 weeks	0
Regions with recent	n/a
outbreaks	II/a





For additional information regarding influenza surveillance please visit the following websites. http://nj.gov/health/flu/surveillance.shtml http://www.cdc.gov/flu/

Footnotes:

- 1. This report represents activity occurring in New Jersey related to influenza and RSV. In addition, reports of other circulating respiratory viruses or regarding illness severity (i.e., hospitalization) will be included when available.
- 2. Activity levels for the state and region are defined in Table 1 and 2 at the end of this document.
- 3. The following is a breakdown of counties contained within each public health region: Northwest: Morris, Passaic, Sussex, Warren; Northeast: Bergen, Essex, Hudson; Central west: Hunterdon, Mercer, Somerset; Central East: Middlesex, Monmouth, Ocean, Union; South: Atlantic, Burlington, Camden, Cape May, Salem, Cumberland, Gloucester
- 4. Influenza-like illness (ILI) is defined as fever (> 100°F [37.8°C], oral or equivalent) and cough and/or sore throat (in the absence of a known cause other than influenza). For long term care facilities, fever is defined as 2° above baseline temperature.
- 5. Non-season baseline is calculated by taking the average of statewide percentages of ILI for an 8 year (2006, 2007, 2008, 2009, 2010, 2011, 2012, and 2013) period during months when influenza is less likely to be circulating (May-August).
- 6. Three year seasonal averages are determined by calculating the average percent ILI/absenteeism for each influenza season (October to May). These averages are ranked and the three highest and lowest overall season averages were selected. The three highest and lowest numbers were then averaged to obtain a single high and single low value. The season which contribute to the high and low value vary by entity type and are as follows: LTCF (High: 07-08, 08-09, 12-13; Low: 09-10, 10-11,11-12), ED (High:07-08, 09-10,12-13; Low: 08-09, 10-11, 11-12) and schools (High: 07-08, 08-09,10-11; Low: 09-10, 11-12,12-13). A week by week average was also calculated using the average of the seasons listed above for each entity type.
- 7. Viral activity: Real-time polymerase chain reaction (PCR) results are obtained from electronic laboratory transmission submitted by acute care, commercial and public health laboratories to CDRSS. Rapid influenza test data and respiratory syncytial virus data are acquired from facilities reporting rapid influenza tests via the National Respiratory and Enteric Virus Surveillance System (NREVSS) or CDRSS ILI module. Counts for cumulative totals begin with week ending October 5, 2013. Three week count data includes current week and two prior weeks. Data presented for RSV and rapid influenza testing represent information for the week prior to the current report week.
- 8. Daily visits and admissions associated with ILI from emergency department data is collected via EpiCenter and Hippocrates. Prior to these systems, data on ILI visits were only recorded one day per week usually on Tuesday. This system is maintained as a large amount of historical data allows for better seasonal comparisons.
- 9. Only LTCF outbreaks reported to NJDOH that receive an outbreak number are recorded in this report.

<u>Table 1</u> Influenza Activity Level – Definitions for State Activity								
NJ Level	CSTE Level	Definition						
		ILI Activity/Outbreaks		Lab Activity				
	No Activity	ILI activity at or below baseline AND no detected outbreaks	AND	No lab confirmed cases				
Low	Sporadic	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the state	AND	Sporadic isolation of laboratory confirmed influenza				
	Local	Increase in ILI activity OR two or more lab confirmed outbreaks in one public health region (Other regions not experiencing increased ILI activity)	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI				
Moderate	Regional	Increase in ILI activity OR two or more lab confirmed outbreaks in at least 2 public health regions (Other regions not experiencing increased ILI activity)	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI				
High	Widespread	Increase in ILI activity OR two or more lab confirmed outbreaks in > 2 public health regions	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI				

Table 2 Influenza Activity Level – Definitions for Public Health Regions						
NJ Level	ILI Activity/Outbreaks	<u>inition</u>	Lab Activity			
Low	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the region	AND	Sporadic isolation of laboratory confirmed influenza anywhere in the region			
Moderate	Increased ILI activity in less than half of the counties in the region OR two lab confirmed outbreaks in the public health region	AND	Recent (within 3 weeks) laboratory activity in same counties of the region with increased ILI			
High	Increased ILI activity in more than half of the counties in the region OR three or more lab confirmed outbreaks in the region	AND	Recent (within 3 weeks) laboratory activity in more than half of the counties in the region with increased ILI			

Notes:

ILI activity: Systems used to detect increases in ILI activity include: ILINet (i.e., sentinel providers), school absenteeism data, ED ILI visits and admissions collected via Hippocrates and EpiCenter systems, LTCF ILI data, LTCF outbreak data, and information on influenza mortality (122 city, influenza associated death report).

Lab Activity: Virologic surveillance data from PHEL and commercial laboratories will be used as the primary data source for the above levels. However, rapid influenza test data will also be considered when determining the appropriate activity levels.

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 10/08/2013 to 10/08/2013





	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% IL1	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% IL1
	1RW WEEK 41								
ATLANTIC	5	3	1.22	66	26	4.42	4	4	1.15
BERGEN	6	3	0.00	37	15	2.24	5	5	3.41
BURLINGTON	6	0	0.00	115	52	2.91	3	3	0.69
CAMDEN	5	0	0.00	17	0	0.00	7	7	3.41
CAPE MAY	7	2	0.00	11	4	3.80	1	1	0.00
CUMBERLAND	2	2	3.07	13	2	5.28	3	3	2.08
ESSEX	11	1	0.00	24	5	1.80	8	8	4.52
GLOUCESTER	4	3	0.33	6	6	1.97	2	2	1.36
HUDSON	16	5	0.91	90	16	3.52	6	1	2.63
HUNTERDON	4	4	0.92	8	6	1.82	1	1	3.61
MERCER	10	1	0.00	27	15	2.73	5	5	4.07
MIDDLESEX	20	4	0.41	35	23	1.90	6	6	1.94
MONMOUTH	15	3	1.03	26	16	4.32	5	5	2.95
MORRIS	4	0	0.00	5	0	0.00	4	4	1.45
OCEAN	23	0	0.00	24	0	0.00	4	4	1.38
PASSAIC	14	4	0.00	68	1	4.82	3	3	4.03
SALEM	1	0	0.00	10	4	3.30	1	1	0.00
SOMERSET	7	2	0.46	92	23	1.84	1	1	3.17
SUSSEX	6	5	0.48	24	8	3.40	2	2	1.06
UNION	4	0	0.00	195	29	2.59	5	5	0.72
UNKNOWN	0	0	0.00	1	1	0.00	0	0	0.00
WARREN	4	3	0.87	27	15	3.31	2	2	3.23
NW Region	28	12	0.38	124	24	3.54	11	11	2.78
NE Region	33	9	0.45	151	36	2.94	19	14	3.99
CW Region	21	7	0.76	127	44	2.14	7	7	3.87
CE Region	62 30	7 10	0.64 1.40	280 238	68 94	2.80 3.40	20 21	20 21	1.85 1.92
South Region State Total	174	45	0.71	920	266	2.94	78	73	2.62
State I Utai	1/4	43	0.71	920	200	2.74	70	13	2.02

User Name: THOMAS, DEEPAM

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Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 10/08/2013 to 10/08/2013



					SENIOR SERVICES
	RSV	Tests	Flu	Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
October, 8, 2013 12:00 AM MMI	RW WEEK 41				
ATLANTIC	0	16	0	28	
BERGEN	0	8	0	56	
BURLINGTON	0	0	0	0	
CAMDEN	0	6	0	10	
CAPE MAY	0	2	0	2	
CUMBERLAND	4	10	0	0	
ESSEX	0	0	0	6	
GLOUCESTER	0	0	0	0	
HUDSON	0	21	0	15	
HUNTERDON	0	4	0	37	
MERCER	0	0	0	0	
MIDDLESEX	0	20	0	0	
MONMOUTH	0	27	1	73	
MORRIS	0	0	0	0	
OCEAN	0	0	0	0	
PASSAIC	0	0	0	0	
SALEM	0	1	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	1	0	3	
UNION	0	4	0	0	
WARREN	0	2	0	13	
NW Region NE Region CW Region CE Region South Region	0 0 0 0 4	3 29 4 51 35	0 0 0 1	16 77 37 73 40	
State Total	4	122	1	243	