

Respiratory Virus Surveillance Report¹



New Jersey Department of Health Communicable Disease Service

Week ending February 9, 2013 (MMWR week 6)

SYNOPSIS

Influenza Activity Level ²					
State Activi	ty Week ending 02/09:				
	HIGH	Sussex Pas Suspen			
Current week	Last year: MODERATE	Autron Moris See			
Re	egional ³ Data	Hunter or Mills of the Control of th			
Northwest	MODERATE	Wercer mouth			
Northeast	HIGH	Burlington			
Central West	HIGH	Glou Candon Cestor Salem Atlantic			
Central East	HIGH	Cumbortand Cape			
South	HIGH				

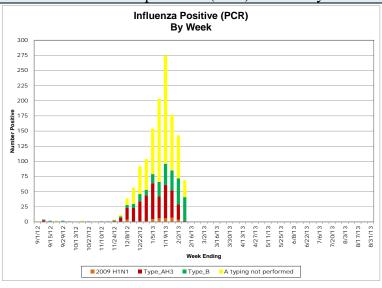
ILI Activity ⁴					
	P	ercent ILI/Absente	eeism	Baselines	
	Current week (range by county)	Last week Current year	Non-season ⁵ Season ⁶ (3 low, 3 high)		
Long Term Care Facilities	1.00 (0.00, 1.76)	1.43	0.38	0.59 (0.62, 0.85)	
Schools (absenteeism)	5.56 (4.14,7.07)	5.38	4.62	3.85 (4.75, 4.85)	
Emergency Departments	4.95 (0.00,8.97)	5.90	2.57	2.59 (3.43, 4.34)	

Viral Activity ⁷						
	Current Week	Past 3 Weeks	Cumulative Total			
Influenza H1N1 (2009)	0	11	35			
Influenza H3N2	2	72	358			
Influenza B	39	115	229			
Respiratory Syncytial Virus (RSV)	118	492	2527			
Rapid Influenza Tests	397	1516	4031			

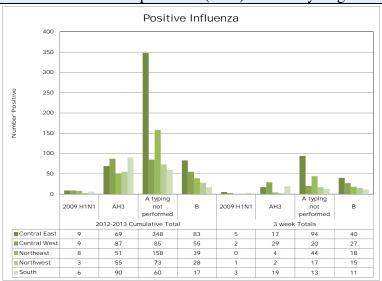
ILINet Providers					
Current W	eek	Previous Week			
#of reporters	%ILI	#of reporters	%ILI		
5	3.84	13	4.92		

Virologic Surveillance⁷

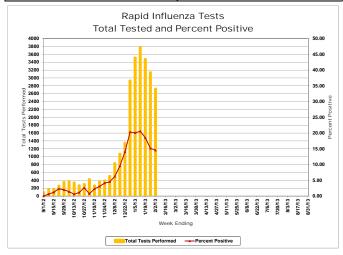
Influenza Positive Specimens (PCR) - Result by Week



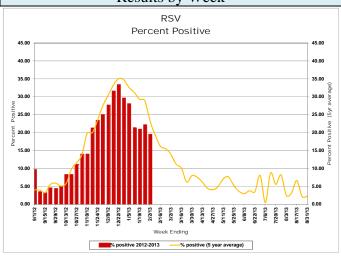
Influenza Positive Specimens (PCR)- Result by Region³



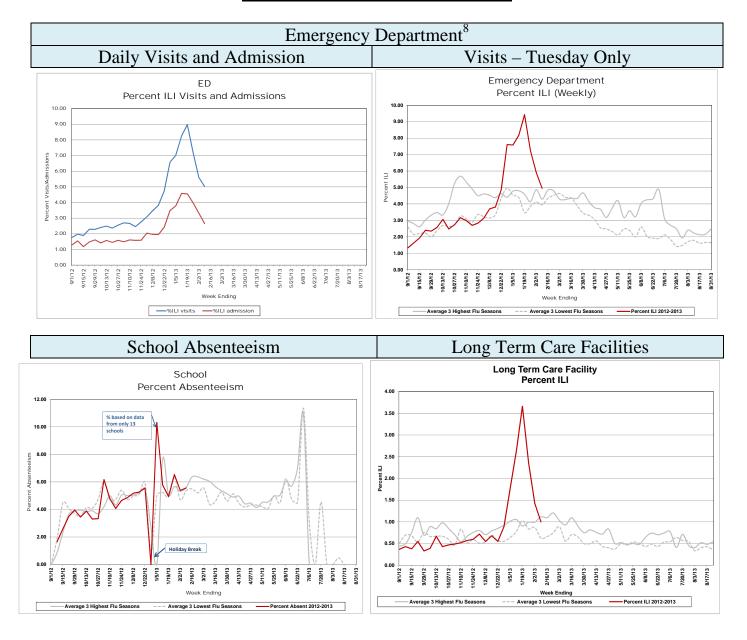
Influenza Rapid Antigen Result by Week



Respiratory Syncytial Virus (RSV) Results by Week



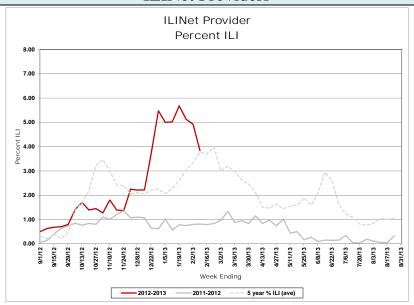
Influenza-like Illness Surveillance



Respiratory Outbreaks in Long Term Care Facilities⁹

Cumulative outbreaks 2012-2013 season	75
No. outbreaks last 3 weeks	13
Regions with recent	NW(1), NE(2),
outbreaks	CW(1), CE(5),
	S(4)





Additional Information

A second report containing information about age specific illness, hospitalization and deaths will be produced on a monthly basis or as needed when important information needs to be disseminated. 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 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 a 7 year (2006, 2007, 2008, 2009, 2010, 2011, 2012) 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: 06-07, 07-08, 08-09; Low: 09-10, 10-11,11-12), ED (High: 06-07, 08-09, 09-10; Low: 07-08, 10-11, 11-12) and schools (High: 06-07, 07-08, 08-09; Low: 09-10, 10-11,11-12). 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 6, 2012. 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 admission 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 received 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 Definition						
NJ Level	ILI Activity/Outbreaks	IIItion	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 admission 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: 02/05/2013 to 02/05/2013



2/11/2013 9:06:42AM

	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
February, 5, 2013 12:00 AM MM	RW WEEK 6								
ATLANTIC	4	2	0.00	51	42	6.58	5	4	3.41
BERGEN	6	2	0.91	36	17	5.82	5	5	5.47
BURLINGTON	6	0	0.00	115	61	5.77	4	3	4.54
CAMDEN	5	0	0.00	17	0	0.00	7	7	5.67
CAPE MAY	7	3	0.00	11	10	7.07	1	1	5.88
CUMBERLAND	2	2	2.47	12	7	6.89	3	3	5.20
ESSEX	11	4	0.91	22	8	4.63	11	8	5.32
GLOUCESTER	5	4	0.97	6	6	4.96	2	2	4.87
HUDSON	16	5	1.14	89	64	5.35	6	6	5.27
HUNTERDON	4	3	1.12	8	8	4.99	1	1	2.83
MERCER	10	1	0.00	27	20	4.93	5	5	8.97
MIDDLESEX	20	9	1.04	35	22	4.21	6	6	6.29
MONMOUTH	15	4	1.63	26	17	5.44	5	5	3.64
MORRIS	4	0	0.00	5	0	0.00	4	4	3.20
OCEAN	23	12	1.76	24	22	6.74	4	2	4.99
PASSAIC	11	7	0.09	66	50	5.80	3	3	5.33
SALEM	2	1	0.00	13	8	5.86	1	1	0.00
SOMERSET	7	4	1.57	92	29	4.14	1	1	9.25
SUSSEX	6	3	0.16	24	14	6.22	2	2	0.00
UNION	4	1	0.00	195	19	5.05	5	5	1.40
UNKNOWN	0	0	0.00	1	1	6.67	0	0	0.00
WARREN	4	2	0.00	27	14	5.57	2	2	1.55
NW Region	25	12	0.11	122	78	5.84	11	11	3.68
NE Region	33	11	1.04	147	89	5.36	22	19	5.35
CW Region	21	8	1.39	127	57	4.49	7	7	8.23
CE Region	62	26	1.37	280	80	5.41	20	18	4.29
South Region State Total	31 172	12 69	1.01 1.00	225 901	134 438	6.18 5.56	23 83	21 76	4.81 4.95
State Total	1/2	09	1.00	701	430	3.30	- 65	70	4.33

User Name: THOMAS, DEEPAM Page 1 of 1

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 02/05/2013 to 02/05/2013



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					SENIOR SERVICES
	RSV	Tests	Flu	Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
	RW WEEK 6				
ATLANTIC	10	70	49	223	
BERGEN	6	19	82	486	
BURLINGTON	9	28	44	362	
CAMDEN	7	57	4	94	
CAPE MAY	1	13	14	68	
CUMBERLAND	1	5	0	0	
ESSEX	13	55	40	334	
GLOUCESTER	4	19	16	99	
HUDSON	9	52	0	0	
HUNTERDON	2	12	16	109	
MERCER	3	8	3	20	
MIDDLESEX	17	83	0	0	
MONMOUTH	21	114	72	444	
MORRIS	2	5	8	66	
OCEAN	4	23	24	165	
PASSAIC	0	0	0	0	
SALEM	0	3	0	0	
SOMERSET	0	0	0	0	
SUSSEX	1	9	2	6	
UNION	5	28	11	105	
WARREN	3	9	12	145	
NW Region NE Region CW Region CE Region South Region	6 28 5 47 32	23 126 20 248 195	22 122 19 107 127	217 820 129 714 846	
State Total	118	612	397	2726	