

## Respiratory Virus Surveillance Report<sup>1</sup>



New Jersey Department of Health Communicable Disease Service

Week ending March 16, 2013 (MMWR week 11)

#### **SYNOPSIS**

Influenza Activity Level <sup>2</sup>					
State Activi	ty Week ending 03/16:				
	HIGH	Susses Pas Sale Serger			
	ek Last year: <mark>HIGH</mark>	Marie Marie			
Re	egional <sup>3</sup> Data	Hunter or Mid don get Mon mouth			
Northwest	MODERATE	Bulington			
Northeast	HIGH	Glou miden			
<b>Central West</b>	HIGH	Salorn Atlantic			
Central East	HIGH	Cope			
South	HIGH	•			

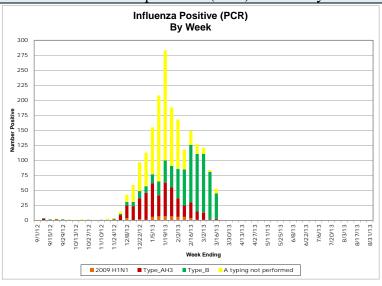
ILI Activity <sup>4</sup>								
	P	Percent ILI/Absenteeism						
	Current week (range by county)							
Long Term Care Facilities	0.85 (0.00, 1.77)	0.90	0.46	0.59 (0.62, 0.85)				
Schools (absenteeism)	5.92 (3.33, 8.08)	5.26	4.64	3.85 (4.75, 4.85)				
Emergency Departments	3.54 (0.00,6.12)	4.43	2.93	2.59 (3.43, 4.34)				

Viral Activity <sup>7</sup>						
	Current Week	Past 3 Weeks	Cumulative Total			
Influenza H1N1 (2009)	1	3	55			
Influenza H3N2	2	15	446			
Influenza B	42	216	671			
Respiratory Syncytial Virus (RSV)	43	220	3000			
Rapid Influenza Tests	160	554	5182			

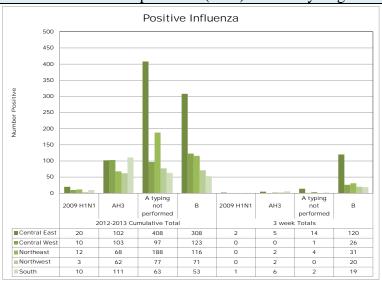
ILINet Providers					
Current W	eek	Previous Week			
#of reporters	%ILI	#of reporters	%ILI		
5	2.07	13	4.21		

#### Virologic Surveillance<sup>7</sup>

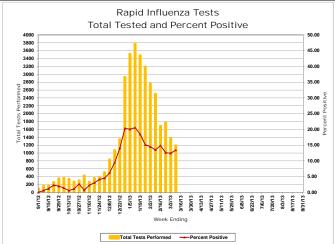
### Influenza Positive Specimens (PCR) - Result by Week



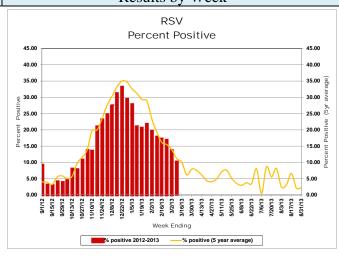
#### Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>



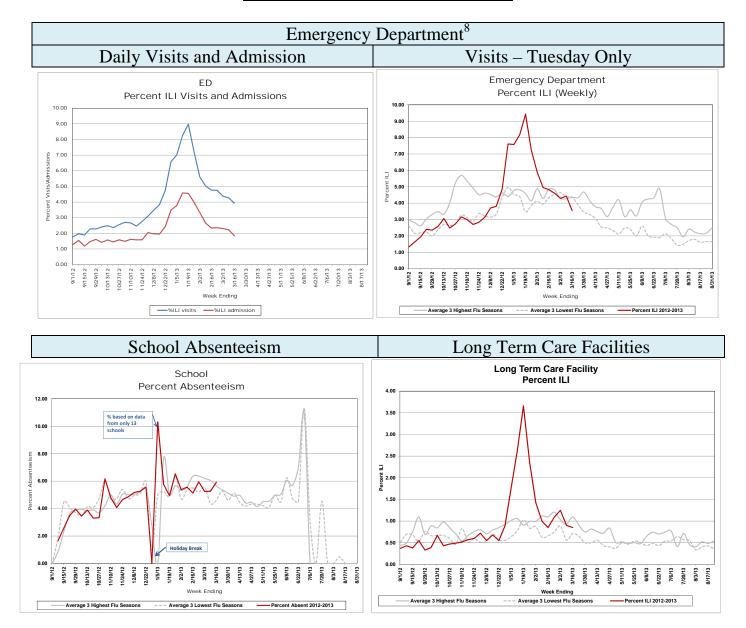
#### Influenza Rapid Antigen Result by Week



#### Respiratory Syncytial Virus (RSV) Results by Week



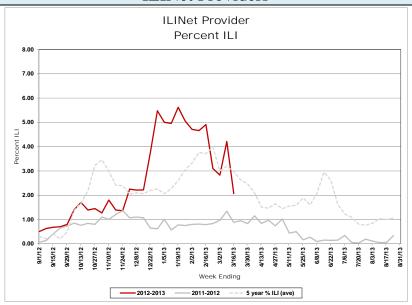
### Influenza-like Illness Surveillance



### Respiratory Outbreaks in Long Term Care Facilities<sup>9</sup>

Cumulative outbreaks 2012-2013 season	80
No. outbreaks last 3 weeks	4
Regions with recent outbreaks	CW(1), S(3)





#### **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	<u>Definition</u>						
		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				

<u>Table 2</u> Influenza Activity Level – Definitions for Public Health Regions							
NJ Level	Definition       ILI Activity/Outbreaks     Lab Activity						
Low	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the region	AND	Lab Activity  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

User Name: THOMAS, DEEPAM

# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 03/12/2013 to 03/12/2013



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	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% IL1
March, 12, 2013 12:00 AM MMR	W WEEK 11								
ATLANTIC	4	3	0.96	51	34	7.38	5	4	1.67
BERGEN	6	3	0.62	36	12	6.79	5	5	1.76
BURLINGTON	6	0	0.00	115	57	5.66	4	3	4.19
CAMDEN	5	0	0.00	17	0	0.00	7	7	3.56
CAPE MAY	7	2	0.00	11	10	7.49	1	1	4.46
CUMBERLAND	2	1	1.77	12	6	8.08	3	3	3.88
ESSEX	11	2	0.72	22	3	5.03	11	8	5.08
GLOUCESTER	5	3	0.58	6	6	6.42	2	2	1.21
HUDSON	16	3	0.58	90	57	6.41	6	6	2.27
HUNTERDON	4	4	1.14	8	8	4.03	1	1	6.02
MERCER	10	1	0.00	27	17	5.58	5	5	3.75
MIDDLESEX	20	6	0.72	35	22	3.69	6	6	6.12
MONMOUTH	15	5	1.52	26	14	7.18	5	2	4.58
MORRIS	4	0	0.00	5	0	0.00	4	4	2.21
OCEAN	23	14	1.29	24	19	6.32	4	3	4.35
PASSAIC	11	3	0.36	66	27	6.38	3	3	4.24
SALEM	2	1	0.00	14	7	5.79	1	1	1.37
SOMERSET	7	3	0.00	92	28	4.28	1	1	4.38
SUSSEX	6	0	0.00	24	0	0.00	2	2	0.00
UNION	4	0	0.00	195	0	0.00	5	5	0.66
UNKNOWN	0	0	0.00	1	1	3.33	0	0	0.00
WARREN	4	3	0.00	27	12	5.73	2	2	1.33
NW Region	25	6	0.26	122	39	6.26	11	11	2.88
NE Region	33	8	0.61	148	72	6.42	22	19	3.48
CW Region	21	8	0.70	127	53	4.61	7	7	4.10
CE Region	62 31	25 10	1.15 0.81	280 226	55 120	5.47 6.49	20 23	16	4.22 3.13
South Region State Total	172	57	0.81 <b>0.85</b>	903	339	5.92	83	21 <b>74</b>	3.13 3.54
State 10tal	1/2	31	0.85	903	339	3.92	83	74	3.34
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Communicable Disease Reporting and Surveillance System

# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 03/12/2013 to 03/12/2013



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					SENIOR SERVICES
	RSV	Tests	Flu	Tests	
		1		<u> </u>	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
March, 12, 2013 12:00 AM MMR	W WEEK 11				
ATLANTIC	9	57	16	146	
BERGEN	1	11	20	140	
BURLINGTON	1	26	16	81	
CAMDEN	2	38	6	48	
CAPE MAY	1	10	2	35	
CUMBERLAND	4	25	0	0	
ESSEX	1	43	17	128	
GLOUCESTER	1	14	10	69	
HUDSON	6	49	3	23	
HUNTERDON	2	10	12	67	
MERCER	7	27	1	7	
MIDDLESEX	5	64	0	0	
MONMOUTH	0	17	38	269	
MORRIS	2	17	3	25	
OCEAN	0	12	11	90	
PASSAIC	0	0	0	0	
SALEM	0	1	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	0	0	0	
UNION	0	0	0	0	
WARREN	1	2	5	62	
NW Region	3	19	8	87	
NE Region	8	103	40	291	
CW Region CE Region	9 5	37 93	13 49	74 359	
South Region	18	171	50	379	
State Total	43	423	160	1190	