

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



New Jersey Department of Health Communicable Disease Service

Week ending December 22, 2012 (MMWR week 51)

### **SYNOPSIS**

	Influenza Activity Level	2
State Activi	ty Week ending 12/22:	
	HIGH	Sussex Pas gaio Bergert Suron, Moris San P
Current w	veek Last year: LOW	Huntor Commission
Re	egional <sup>3</sup> Data	don set Mid deser Mon Morer mouth
Northwest	MODERATE	Doean
Northeast	MODERATE	Burlington
Central West	MODERATE	Gloud mden coster Salem Atlantio
Central East	MODERATE	Cumberland
South	HIGH	May

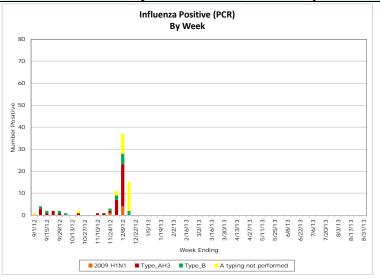
	ILI Activity <sup>4</sup>						
	P	ercent ILI/Absente	eeism	Baselines			
	Current week (range by county)	Last week Current year	Current week Last year	Non-season <sup>5</sup> Season <sup>6</sup> (3 low, 3 high)			
Long Term Care Facilities	0.55 (0.00, 1.15)	0.68	0.48	0.59 (0.62, 0.85)			
Schools (absenteeism)	5.56 (2.22, 6.98)	5.26	5.13	3.85 (4.75, 4.85)			
Emergency Departments	4.87 (0.00, 7.38)	3.81	3.51	2.59 (3.43, 4.34)			

Viral Activity <sup>7</sup>						
Current Past 3 Cumulative Week Weeks Total						
Influenza H1N1 (2009)	0	3	4			
Influenza H3N2	7	46	65			
Influenza B	2	15	22			
Respiratory Synctial Virus (RSV)	227	470	801			
Rapid Influenza Tests	102	178	248			

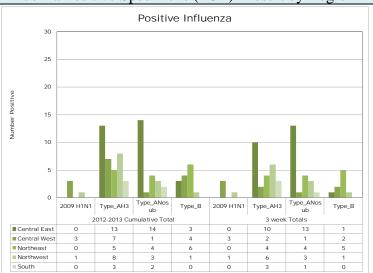
ILINet Providers						
Current W	eek	Previous W	<b>'eek</b>			
#of reporters	%ILI	#of reporters	%ILI			
5	3.47	15	2.11			

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

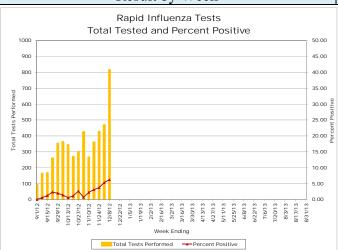
### Influenza Positive Specimens (PCR) - Result by Week



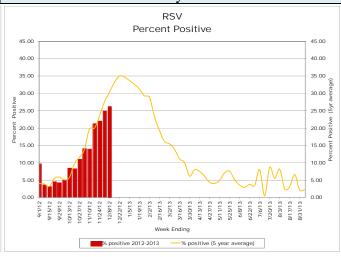
### Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>



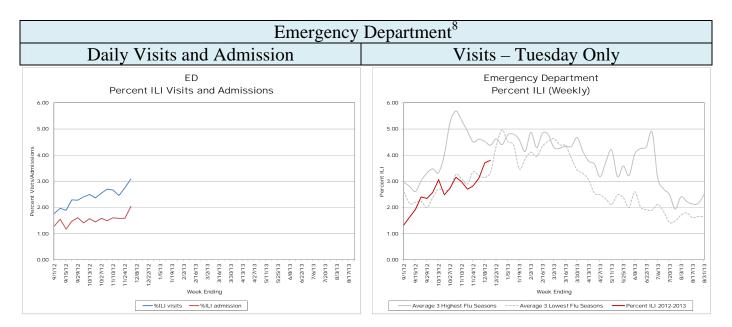
### Influenza Rapid Antigen Result by Week

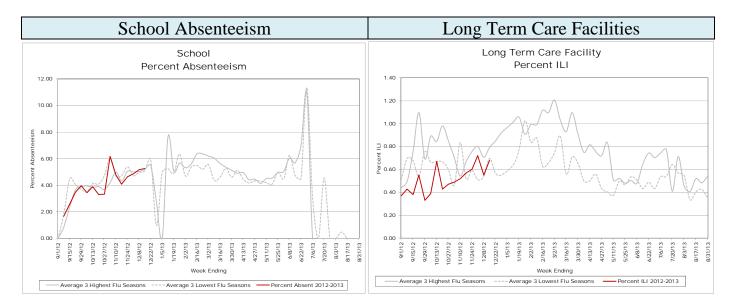


# Respiratory Syncytial Virus (RSV) Results by Week



## Influenza-like Illness Surveillance

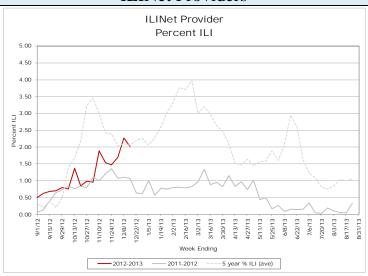




# Respiratory Outbreaks in Long Term Care Facilities<sup>9</sup>

Cumulative outbreaks 2012-2013 season	11
No. outbreaks last 3 weeks	4
Regions with recent outbreaks	NW, NE, CW, CE

#### **ILINet Providers**



### **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. <a href="http://nj.gov/health/flu/surveillance.shtml">http://nj.gov/health/flu/surveillance.shtml</a>

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							
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 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: 12/18/2012 to





	Long Term Care			Schools			Hospital Emergency Department			
County	# Enrolled	# Reports Rec'd	% IL1	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% IL1	
	MMRW WEEK 51									
ATLANTIC	4	3	0.82	51	41	6.00	5	4	1.46	
BERGEN	6	3	0.00	36	13	4.76	5	5	5.23	
BURLINGTON	6	1	0.00	115	58	5.26	4	3	4.14	
CAMDEN	5	0	0.00	17	0	0.00	7	6	6.64	
CAPE MAY	7	2	0.00	11	11	6.25	1	1	6.06	
CUMBERLAND	2	1	0.00	11	9	6.98	3	3	7.09	
ESSEX	10	3	0.43	20	4	3.11	11	8	5.09	
GLOUCESTER	5	4	0.00	6	6	4.91	2	2	4.31	
HUDSON	16	3	0.60	88	25	5.12	6	6	6.68	
HUNTERDON	4	3	1.15	8	8	5.00	1	1	3.19	
MERCER	10	0	0.00	27	20	5.39	5	5	3.95	
MIDDLESEX	20	2	0.00	34	12	5.50	6	6	6.02	
MONMOUTH	14	3	0.00	26	14	6.69	5	4	5.23	
MORRIS	4	0	0.00	5	0	0.00	4	4	2.68	
OCEAN	10	4	1.03	16	13	6.89	4	3	7.38	
PASSAIC	9	4	0.96	51	23	5.80	3	3	2.86	
SALEM	2	0	0.00	10	3	5.66	1	1	0.00	
SOMERSET	6	2	0.40	87	11	3.36	1	1	5.84	
SUSSEX	5	3	0.82	24	16	5.89	2	2	0.00	
UNION	3	0	0.00	195	0	0.00	5	5	2.38	
UNKNOWN	0	0	0.00	1	1	2.22	0	0	0.00	
WARREN	4	1	0.00	27	12	5.49	2	2	3.61	
NW Region	22	8	0.81	107	51	5.78	11	11	2.67	
NE Region	32	9	0.41	144	42	4.88	22	19	5.55	
CW Region	20	5	0.78	122	39	4.70	7	7	4.21	
CE Region South Region	47 31	9 11	0.53 0.25	271 221	39 128	6.46 5.70	20 23	18 20	5.38 4.83	
State Total	152	42	0.25	865	299	5.70 5.56	83	75	4.83 4.87	
State Istai	132	72	0.33	003	2))	3.30	03	13	7.07	

User Name: THOMAS, DEEPAM

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### NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS 12/24/2012 12

# 12/24/2012 12:37:58PM



					SENIOR SERVI
	RSV	Tests	Flu	Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
December, 18, 2012 12:00 AM M	MRW WEEK:	<b>5</b> 1			
ATLANTIC	24	76	4	95	
BERGEN	18	32	33	272	
BURLINGTON	7	29	11	79	
CAMDEN	21	59	0	58	
CAPE MAY	5	12	0	19	
CUMBERLAND	13	43	0	0	
ESSEX	23	67	10	109	
GLOUCESTER	13	38	7	46	
HUDSON	5	18	0	0	
HUNTERDON	1	5	7	43	
MERCER	7	20	0	3	
MIDDLESEX	45	148	0	0	
MONMOUTH	31	114	20	242	
MORRIS	1	7	4	36	
OCEAN	12	37	1	47	
PASSAIC	0	0	0	0	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	1	11	3	15	
UNION	0	0	0	0	
WARREN	0	3	2	6	
NW Region	2	21	9	57	
NE Region	46	117	43	381	
CW Region CE Region	8 88	25 299	7 21	46 289	
South Region	83	257	21 22	289	
State Total	227	719	102	1070	

SURVEILLANCE DATE: 12/18/2012