

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



New Jersey Department of Health Communicable Disease Service

Week ending November 10, 2012 (MMWR week 45)

### **SYNOPSIS**

	Influenza Activity Leve	
State Activi	ty Week ending 11/10:	Sussex (2)
	LOW	Morry Real
Current w	eek Last year: LOW	Hunter be with day of the day of
Re	egional <sup>3</sup> Data	Mercu
Northwest	LOW	Curlington
Northeast	LOW	Control Contro
Central West	LOW	Salem Attantio
Central East	LOW	
South	LOW	

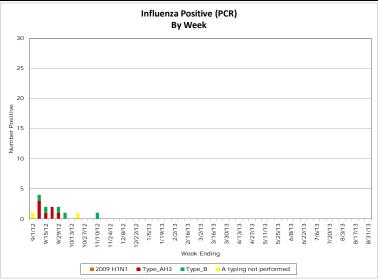
ILI Activity <sup>4</sup>					
	P	Baselines			
	Current week (range by county)	Last week Current year	Non-season <sup>5</sup> Season <sup>6</sup> (3 low, 3 high)		
Long Term Care Facilities	0.52 (0.00, 2.13)	0.49	0.70	0.59 (0.62, 0.85)	
Schools (absenteeism)	4.79 (1.36, 6.61)	6.17	4.88	3.85 (4.75, 4.85)	
Emergency Departments	2.99 (0.44, 7.53)	3.16	2.68	2.59 (3.43, 4.34)	

Viral A	ctivity <sup>7</sup>		
	Current Week	Past 3 Weeks	Cumulative Total
Influenza H1N1 (2009)	0	0	0
Influenza H3N2	0	0	7
Influenza B	1	1	5
Respiratory Synctial Virus (RSV)	43	83	143
Rapid Influenza Tests	3	11	35

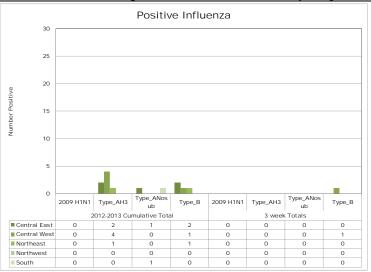
ILINet Providers						
Current W	eek	Previous Week				
#of reporters	%ILI	#of reporters	%ILI			
8	1.32	11	0.96			

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

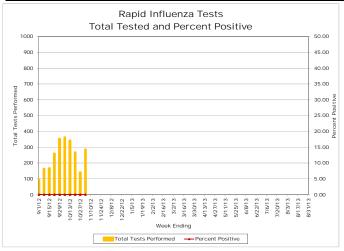
#### Influenza Positive Specimens (PCR) - Result by Week



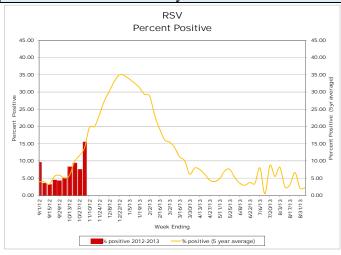
#### Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>



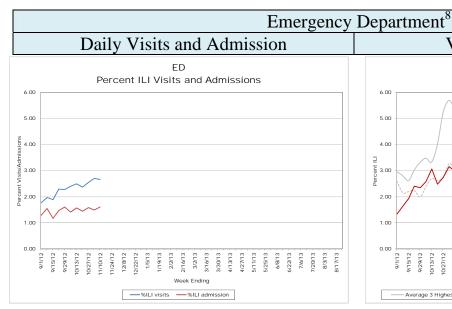
### Influenza Rapid Antigen Result by Week

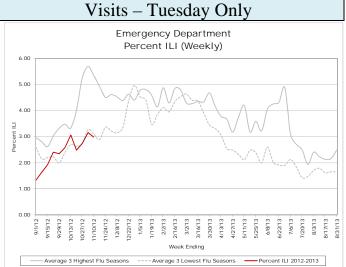


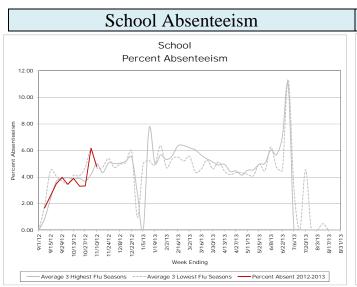
# Respiratory Syncytial Virus (RSV) Results by Week

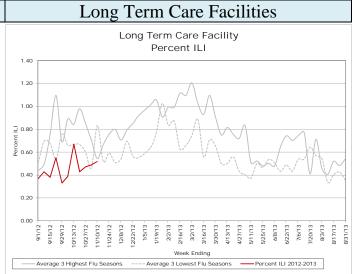


### Influenza-like Illness Surveillance





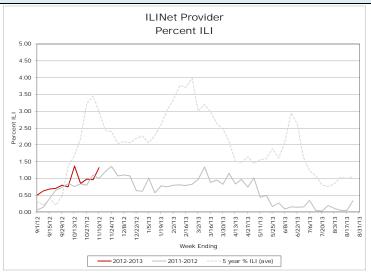




## Respiratory Outbreaks in Long Term Care Facilities<sup>9</sup>

Cumulative outbreaks 2012-2013 season	5
No. outbreaks last 3 weeks	2
Regions with recent outbreaks	CE(1), CW(1)





#### **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> <a href="http://www.cdc.gov/flu/">http://www.cdc.gov/flu/</a>

#### 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.

Table 1 Influenza Activity Level – Definitions for State Activity						
NJ Level	CSTE Level	Def	<u>inition</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	ILI Activity/Outbreaks	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: 11/06/2012 to





	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% IL1	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
	MRW WEEK 45								
ATLANTIC	4	0	0.00	14	0	0.00	5	4	0.72
BERGEN	6	2	0.00	36	10	3.66	5	5	1.52
BURLINGTON	6	2	0.00	115	25	5.46	4	3	2.00
CAMDEN	5	0	0.00	17	0	0.00	7	7	3.38
CAPE MAY	7	3	0.00	11	9	5.53	1	1	0.92
CUMBERLAND	2	2	0.22	11	7	5.37	3	3	2.81
ESSEX	9	3	0.87	20	3	6.61	11	8	3.82
GLOUCESTER	5	4	0.00	6	3	3.29	2	2	0.44
HUDSON	16	3	0.54	88	5	4.79	6	6	2.38
HUNTERDON	4	4	0.91	8	2	1.36	1	1	2.22
MERCER	10	0	0.00	27	10	2.97	5	5	6.20
MIDDLESEX	19	6	0.23	26	0	0.00	6	6	3.42
MONMOUTH	14	2	0.73	26	0	0.00	5	5	2.70
MORRIS	4	0	0.00	5	0	0.00	4	4	1.42
OCEAN	12	0	0.00	56	1	4.08	4	3	7.53
PASSAIC	9	0	0.00	48	11	5.84	3	3	2.40
SALEM	2	0	0.00	10	4	5.23	1	1	0.00
SOMERSET	6	1	0.79	87	0	0.00	2	1	1.80
SUSSEX	5	3	1.20	23	9	5.32	2	2	1.05
UNION	3	0	0.00	195	0	0.00	5	4	1.90
UNKNOWN	0	0	0.00	1	1	4.44	0	0	0.00
WARREN	4	2	2.13	27	14	4.36	2	2	3.23
NW Region	22	5	1.38	103	34	5.32	11	11	1.98
NE Region	31	8	0.39	144	18	4.44	22	19	2.83
CW Region	20	5	0.88	122	12	2.72	8	7	4.79
CE Region South Region	48 31	8 11	0.30 0.07	303 184	1 48	4.08 5.28	20 23	18 21	3.80 2.12
State Total	152	37	0.07	856	113	3.28 <b>4.79</b>	84	76	2.12
State I Utai	132	31	0.32	030	113	7.17	- UT	70	2.77

User Name: THOMAS, DEEPAM

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# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 11/06/2012





ATLANTIC BERGEN BURLINGTON CAMDEN CAPE MAY	RSV  # IMRW WEEK 4  0  0  0  0  1	Tests  Lests  Lests  16  0  11  26  5		Tests  Lests  Lests  A 23  22  0	
November, 6, 2012 12:00 AM MATLANTIC BERGEN BURLINGTON CAMDEN CAPE MAY	0 0 0 0 3 0	16 0 11 26	0 0 0	23 22	
November, 6, 2012 12:00 AM M ATLANTIC BERGEN BURLINGTON CAMDEN CAPE MAY	0 0 0 0 3 0	16 0 11 26	0 0 0	23 22	
November, 6, 2012 12:00 AM M ATLANTIC BERGEN BURLINGTON CAMDEN CAPE MAY	0 0 0 0 3 0	16 0 11 26	0 0 0	23 22	
ATLANTIC BERGEN BURLINGTON CAMDEN CAPE MAY	0 0 0 3 0	16 0 11 26	0	22	
ATLANTIC BERGEN BURLINGTON CAMDEN CAPE MAY	0 0 3 0	0 11 26	0	22	
BURLINGTON CAMDEN CAPE MAY	0 3 0	11 26	0		
CAMDEN CAPE MAY	3 0	26		0	
CAPE MAY	0		0		
		5		14	
	1	ı -	0	5	
CUMBERLAND		16	0	0	
ESSEX	10	44	2	88	
GLOUCESTER	2	10	1	16	
HUDSON	0	0	0	0	
HUNTERDON	0	6	0	20	
MERCER	2	12	0	0	
MIDDLESEX	18	85	0	0	
MONMOUTH	7	42	0	58	
MORRIS	0	1	0	13	
OCEAN	0	0	0	5	
PASSAIC	0	0	0	0	
SALEM	0	1	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	4	0	5	
UNION	0	0	0	0	
WARREN	0	4	0	17	
NW Region	0	9	0	35	
NE Region	10	44	2	110	
CW Region	2	18	0	20	
CE Region	25 6	127 85	0	63 58	
South Region State Total	43	283	1 3	286	
State I Utai					