

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



New Jersey Department of Health Communicable Disease Service

Week ending February 1, 2014 (MMWR week 5)

#### **SYNOPSIS**

	Influenza Activity Lev	rel <sup>2</sup>
State Activ	rity Week ending 2/1:	
	HIGH	Sussen / Pus
Current w	eek Last year: <mark>HIGH</mark>	Marton Monts Est.
Re	egional <sup>3</sup> Data	Hunter or Manager Manager
Northwest	HIGH	Moreer mouth
Northeast	HIGH	Burlington
Central West	HIGH	Glou milon Cester Salem Attantic
Central East	HIGH	Cumbertand Cope May
South	HIGH	

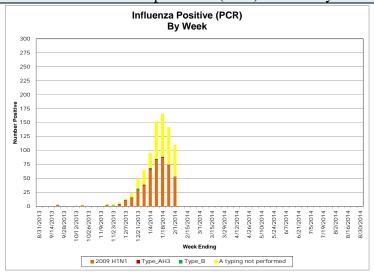
		ILI Activit	$y^4$	
	P	ercent ILI/Absente	eeism	Baselines
	Current week (range by county)	Last week Current year	Current week Last year	Non-season <sup>5</sup> Season <sup>6</sup> (3 low, 3 high)
Long Term Care Facilities	0.59 (0.00, 1.58)	0.44	1.43	0.59 (0.62, 0.87)
Schools (absenteeism)	4.03 (2.82, 6.73)	7.85	6.53	3.79 (4.70, 4.90)
Emergency Departments	4.11 (1.22, 6.06)	4.20	5.90	2.49 (3.28, 4.31)

Viral Ac	ctivity <sup>7</sup>		
	Current	Past 3	Cumulative
	Week	Weeks	Total
<b>Influenza H1N1 (2009)</b>	53	213	460
Influenza H3N2	0	3	14
Influenza B	1	2	10
Respiratory Syncytial Virus (RSV)	154	370	1381
Rapid Influenza Tests	324	739	1108

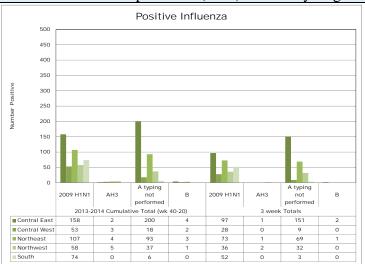
I	LINet P	Providers	
Current W	'eek	Previous W	<sup>7</sup> eek
#of reporters	%ILI	#of reporters	%ILI
6	4.08	23	2.53

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

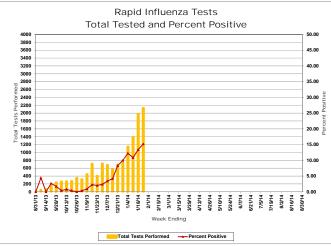
### Influenza Positive Specimens (PCR) - Result by Week



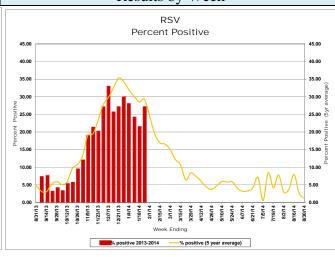
#### Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>



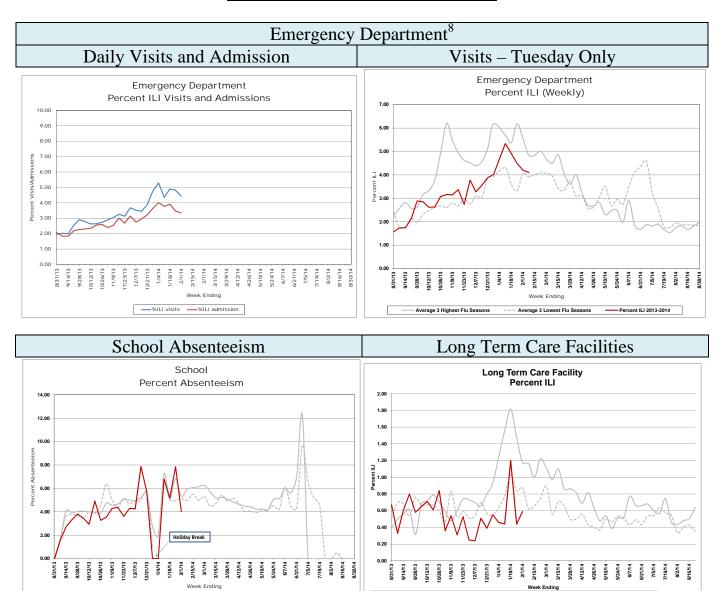
#### Influenza Rapid Antigen Result by Week



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



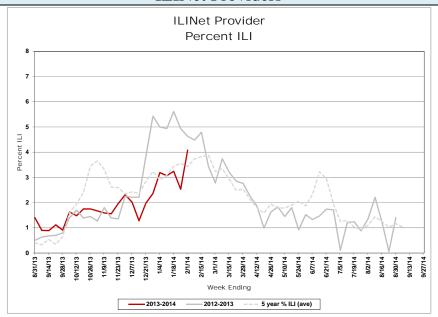
#### Influenza-like Illness Surveillance



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

Cumulative outbreaks 2013-2014 season	3
No. outbreaks last 3 weeks	2
Regions with recent	CW (1), CE (1)
outbreaks	C W (1), CE (1)





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 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.

	I	<u>Table 1</u> nfluenza Activity Level – Definitions for	State Ac	tivity
NJ Level	CSTE Level		<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		lic Health Regions
NJ Level	Def   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: 01/28/2014



02/04/2014 11:01 AM

		Long Term Ca	ıre		Schools		Hospit	al Emergency	y Dept
COUNTY	# Enrolled	# Reports Rec'd	∏ % I⊓	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	<b>II</b> %
January 28, 2014 MMRW WEEK 5				,					
ATLANTIC	7	4	0.95 %	68	36	5.62 %	4	4	1.27 %
BERGEN	5	3	0 %	126	63	3.78 %	5	5	6.06 %
BURLINGTON	8	0	0 %	115	0	0 %	3	2	3.98 %
CAMDEN	5	0	0 %	17	0	0 %	7	7	4.96 %
CAPE MAY	7	1	0 %	11	4	5.68 %	1	1	3.3 %
CUMBERLAND	2	2	0.22 %	24	9	5.47 %	3	3	3.97 %
ESSEX	13	0	0 %	27	4	3.35 %	8	7	3.56 %
GLOUCESTER	4	0	0 %	7	5	4.46 %	2	1	2.41 %
HUDSON	16	2	0 %	91	12	4.9 %	6	6	5.08 %
HUNTERDON	4	4	0.9 %	8	7	3.16 %	1	1	2.44 %
MERCER	10	2	0 %	28	17	3.36 %	5	2	3.77 %
MIDDLESEX	20	1	0 %	36	11	2.95 %	6	6	5.65 %
MONMOUTH	15	1	0 %	26	10	4.44 %	5	5	3.42 %
MORRIS	4	0	0 %	5	0	0 %	4	4	3.86 %
OCEAN	22	0	0 %	24	0	0 %	4	4	2.31 %
PASSAIC	14	5	1.58 %	71	24	3.06 %	3	3	5.94 %
SALEM	1	0	0 %	13	0	0 %	1	1	3.85 %
SOMERSET	7	2	1.15 %	91	18	2.82 %	1	1	5.93 %
SUSSEX	6	1	0 %	24	1	6.73 %	2	2	1.22 %
UNION	4	0	0 %	197	20	3.27 %	5	5	1.59 %
WARREN	4	2	0 %	27	8	5.17 %	2	2	5.08 %
NW Region	28	8	1.23 %	127	33	3.64 %	11	11	4.75 %
NE Region	34	5	0.00 %	244	79	4.07 %	19	18	4.67 %
CW Region	21	8	0.85 %	127	42	3.10 %	7	4	4.10 %
CE Region	61	2	0.00 %	283	41	3.46 %	20	20	3.54 %
South Region	34	7	0.54 %	255	54	5.46 %	21	19	3.75 %
State Total	178	30	0.57 %	1036	249	4.03 %	78	72	4.11 %

User Name: THOMAS, DEEPAM Page 1 of 1

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# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 01/28/2014



	RSV Tests		Flu	Flu Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
January 28, 2014 MMRW WEEK		<u> </u>		· · · -	
ATLANTIC	13	52	23	191	
BERGEN	12	46	56	338	
BURLINGTON	6	20	6	71	
CAMDEN	8	37	31	312	
CAPE MAY	0	5	6	57	
CUMBERLAND	11	33	0	0	
ESSEX	3	28	23	104	
GLOUCESTER	6	21	5	81	
HUDSON	5	29	19	63	
HUNTERDON	3	10	9	74	
MERCER	4	10	0	0	
MIDDLESEX	21	82	0	0	
MONMOUTH	32	107	33	286	
MORRIS	10	34	22	127	
OCEAN	0	0	0	0	
PASSAIC	11	37	65	214	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	0	1	3	
UNION	7	20	13	138	
WARREN	2	3	12	70	
NW Region	23	74	100	414	
NE Region	20	103	98	505	
CW Region	7	20	9	74	
CE Region	60	209	46	424	
South Region	44	168	71	712	
State Total	154	574	324	2129	