

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



New Jersey Department of Health Communicable Disease Service

Week ending January 18, 2014 (MMWR week 3)

# **SYNOPSIS**

	Influenza Activity Lev	rel <sup>2</sup>
State Activ	ity Week ending 1/18:	
	HIGH	Sussen Passen
Current w	eek Last year: HIGH	Marren Morris Sec.
R	egional <sup>3</sup> Data	Hunter or Ministry Mon
Northwest	HIGH	Moror
Northeast	HIGH	Burlington
Central West	HIGH	Glou much Oster Salem Attanto
Central East	HIGH	Cumbertand Cape
South	HIGH	

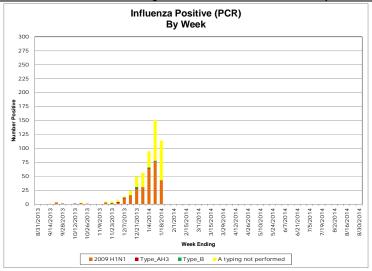
		ILI Activit	ty <sup>4</sup>	
	P	ercent ILI/Absente	eeism	Baselines
	Current week (range by county)	Last week Current year	Current week Last year	Non-season <sup>5</sup> Season <sup>6</sup> (3 low, 3 high)
Long Term Care Facilities	1.20 (0.00, 5.63)	0.44	3.66	0.59 (0.62, 0.87)
Schools (absenteeism)	5.20 (3.33, 8.45)	6.81	5.77	3.79 (4.70, 4.90)
Emergency Departments	4.49 (0.00, 6.24)	4.92	9.43	2.49 (3.28, 4.31)

Viral Ac	ctivity <sup>7</sup>		
	Current Week	Past 3 Weeks	Cumulative Total
Influenza H1N1 (2009)	43	182	271
Influenza H3N2	0	2	10
Influenza B	0	3	8
Respiratory Syncytial Virus (RSV)	99	329	1026
Rapid Influenza Tests	151	265	351

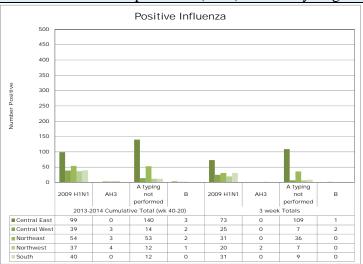
I	LINet P	Providers	
Current W	'eek	Previous W	<sup>7</sup> eek
#of reporters	%ILI	#of reporters	%ILI
18	3.19	21	3.07

# Virologic Surveillance<sup>7</sup>

# Influenza Positive Specimens (PCR) - Result by Week



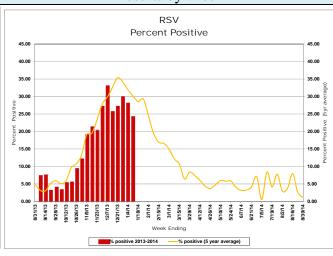
## Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>



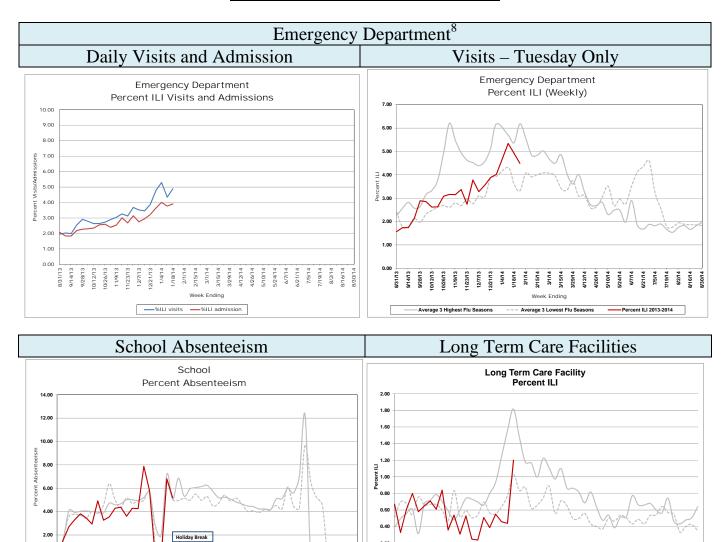
# Influenza Rapid Antigen Result by Week

# Rapid Influenza Tests Total Tested and Percent Positive 50,00 45,00 40,00 3200

# Respiratory Syncytial Virus (RSV) Results by Week



# Influenza-like Illness Surveillance

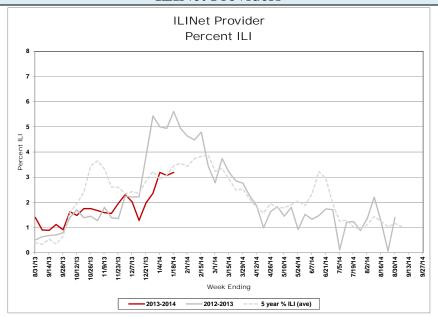


# Respiratory Outbreaks in Long Term Care Facilities<sup>9</sup>

Percent ILI 2013-2014

Cumulative outbreaks 2012-2013 season	2
No. outbreaks last 3 weeks	2
Regions with recent outbreaks	CW





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: 01/14/2014



01/21/2014 11:53 AM

		Long Term Ca	ire		Schools		Hospi	tal Emergency	y Dept
COUNTY	# Enrolled	# Reports Rec'd	<b>∥</b> %	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	□ %
January 14, 2014 MMRW WEEK 3				1		Ţ.			
ATLANTIC	7	2	1.91 %	68	25	8.45 %	4	4	1.7 %
BERGEN	5	3	0.62 %	125	59	3.88 %	5	5	6.24 %
BURLINGTON	8	0	0 %	115	15	5.11 %	3	3	4.51 %
CAMDEN	5	0	0 %	17	0	0 %	7	7	4.08 %
CAPE MAY	7	2	0 %	11	9	5.79 %	1	1	4.55 %
CUMBERLAND	2	2	0.21 %	24	15	6.54 %	3	3	5.06 %
ESSEX	13	0	0 %	27	2	3.56 %	8	7	5.02 %
GLOUCESTER	4	1	0 %	7	5	4.35 %	2	1	1.54 %
HUDSON	16	1	2.68 %	91	17	5.17 %	6	6	3.53 %
HUNTERDON	4	4	1.13 %	8	8	3.33 %	1	1	0.96 %
MERCER	10	1	0 %	28	16	4.23 %	5	4	4.08 %
MIDDLESEX	20	0	0 %	35	11	6.49 %	6	6	5.63 %
MONMOUTH	15	3	1 %	26	10	6.31 %	5	5	5.91 %
MORRIS	4	0	0 %	5	0	0 %	4	3	4.89 %
OCEAN	22	0	0 %	24	0	0 %	4	4	4.96 %
PASSAIC	14	4	0.98 %	69	21	4.74 %	3	3	6.23 %
SALEM	1	0	0 %	13	0	0 %	1	1	0 %
SOMERSET	7	3	5.63 %	91	11	4.01 %	1	1	3.35 %
SUSSEX	6	0	0 %	24	1	6.98 %	2	2	2.65 %
UNION	4	1	0 %	197	14	3.76 %	5	5	1.49 %
WARREN	4	2	0 %	27	17	5.33 %	2	2	2.65 %
NW Region	28	6	0.73 %	125	39	4.95 %	11	10	5.07 %
NE Region	34	4	0.92 %	243	78	4.34 %	19	18	5.04 %
CW Region	21	8	3.18 %	127	35	3.95 %	7	6	3.51 %
CE Region	61	4	0.54 %	282	35	5.61 %	20	20	4.72 %
South Region	34	7	0.54 %	255	69	6.54 %	21	20	3.59 %
State Total	178	29	1.20 %	1032	256	5.20 %	78	74	4.49 %

User Name: THOMAS, DEEPAM Page 1 of 1

Communicable Disease Reporting and Surveillance System

# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 01/14/2014



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	RSV Tests		Flu	Flu Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
January 14, 2014 MMRW WEEK	3				
ATLANTIC	13	45	10	118	
BERGEN	6	9	43	256	
BURLINGTON	0	0	0	23	
CAMDEN	0	0	0	0	
CAPE MAY	0	7	2	31	
CUMBERLAND	15	54	0	0	
ESSEX	0	0	0	0	
GLOUCESTER	5	11	0	60	
HUDSON	12	61	4	55	
HUNTERDON	3	10	10	93	
MERCER	0	0	0	0	
MIDDLESEX	12	69	0	0	
MONMOUTH	20	91	34	421	
MORRIS	3	18	16	98	
OCEAN	0	0	0	0	
PASSAIC	1	2	8	38	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	0	1	8	
UNION	3	21	7	96	
WARREN	6	16	16	94	
NW Region	10	36	41	238	
NE Region	18	70	47	311	
CW Region	3	10	10	93	
CE Region	35	181	41	517	
South Region	33	117	12	232	
State Total	99	414	151	1391	