

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



New Jersey Department of Health Communicable Disease Service

Week ending Janueary 16, 2016 (MMWR week 2)

### **SYNOPSIS**

	Influenza Activity Leve	$2l^2$
State Activit	y Week ending 10/17:	Sussex Pas
M	ODERATE	Morrey Morrey Es
Current week Last year: HIGH		Hunter or don set Mild
Re	gional <sup>3</sup> Data	Mercer mouth
Northwest	MODERATE	Burlington Good
Northeast	LOW	Salem Atlantic
Central West	MODERATE	Cumberland Cape
Central East	MODERATE	
South	LOW	

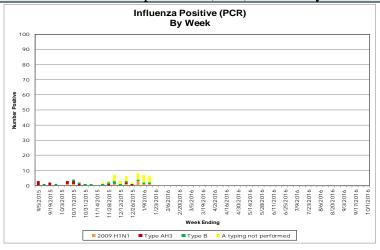
	ILI Activity <sup>4</sup>						
	P	ercent ILI/Absente	eeism	Baselines			
	Current week (range by county)  Last week Current week Non-season  Current year Last year Season <sup>6</sup> (3 low, 3						
Long Term Care Facilities	0.61 (0.00, 2.05)	0.37	1.40	0.58 (0.60, 0.77)			
Schools (absenteeism)	4.73 (2.84, 9.06)	5.59	3.99	3.56 (4.49, 4.85)			
Emergency Departments	3.11 (0.00, 9.38)	4.32	5.81	2.39 (3.21, 4.20)			

Viral Activity <sup>7</sup>							
	Current Past 3 Cumulative Week Weeks Total						
Influenza H1N1 (2009)	1	5	9				
Influenza H3N2	0	0	8				
Influenza B	1	3	13				
Respiratory Syncytial Virus (RSV)	203	752	1535				
Rapid Influenza Tests	47	154	380				

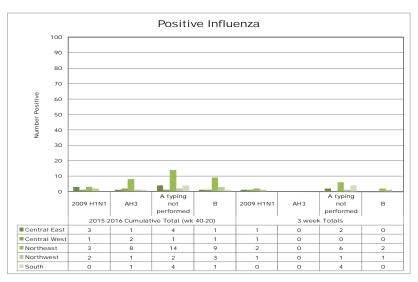
ILINet Providers					
Current Week Previous Week					
#of reporters	%ILI	#of reporters	%ILI		
20	3.89	21	4.59		

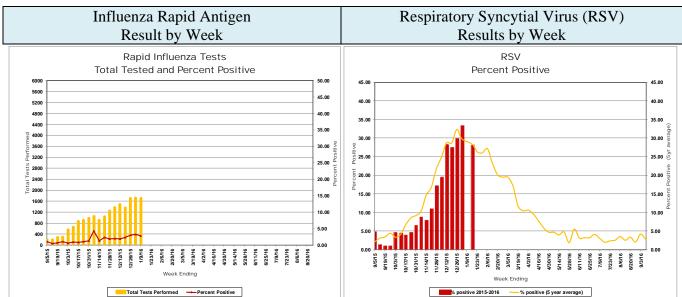
## Virologic Surveillance<sup>7</sup>

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

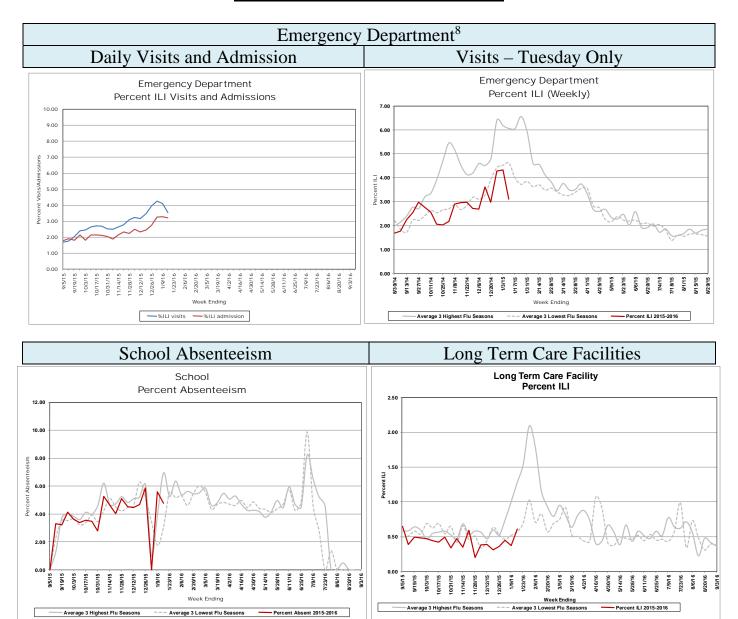


### Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>





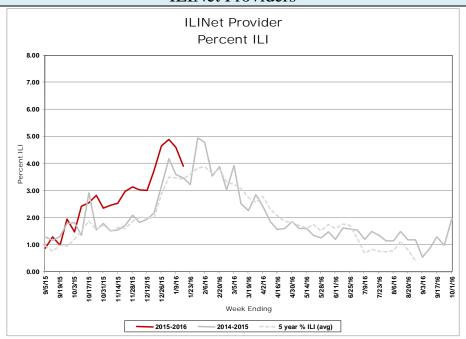
## **Influenza-like Illness Surveillance**



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

Cumulative outbreaks 2015-2016 season	6
No. outbreaks last 3 weeks	2
Regions with recent	CW, NE
outbreaks	CW, ILE

## **ILINet Providers**



## Pediatric Influenza Mortality<sup>10</sup>

	Number of Pediatric Influenza Deaths Reported to CDC			
Influenza season	NJ US (includes N			
2010-2011	4	123		
2011-2012	1	35		
2012-2013	7	171		
2013-2014	6	108		
2014-2015	1	146		
2015-2016	0	7		

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 a 10 year (2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014 and 2015) 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: 09-10, 12-13, 14-15; Low: 10-11,11-12,13-14), ED (High: 09-10, 12-13, 14-15; Low: 10-11, 11-12,13-14) and schools (High: 09-10, 10-11, 12-13; Low: 11-12,13-14, 14-15). 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 10, 2015. 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.
- 10. Data presented for New Jersey are for cases confirmed as of the current reporting week. Data presented for the United States represent data reported for the prior MMWR week. This data can be viewed at: <a href="http://www.cdc.gov/flu/weekly/">http://www.cdc.gov/flu/weekly/</a>.

	<u>Table 1</u> Influenza Activity Level – Definitions for State Activity						
NJ Level							
		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   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.

### **INFLUENZA LABORATORY REPORTS BY COUNTY**

## Counts represent total positive specimens from week ending October 10, 2015 to current MMWR week

**Source: CDRSS** 

Frequency

		R	ESULT		
COUNTY(COUNTY)	Influenza A - Typing not performed	Influenza A 2009 H1N1	Influenza AH3	Influenza B	Total
ATLANTIC	15	0	0	0	15
BERGEN	16	2	7	8	33
BURLINGTON	3	0	1	5	9
CAMDEN	6	0	0	5	11
ESSEX	8	2	1	4	15
GLOUCESTER	0	0	0	1	1
HUDSON	3	0	0	2	5
HUNTERDON	0	0	1	1	2
MERCER	5	0	1	1	7
MIDDLESEX	2	2	0	1	5
MONMOUTH	28	0	0	16	44
MORRIS	1	0	0	1	2
OCEAN	16	0	1	2	19
PASSAIC	3	2	1	2	8
SOMERSET	2	1	0	0	3
UNION	6	1	0	0	7
Total	114	10	13	49	186

#### **INFLUENZA LABORATORY REPORTS BY REGION**

## Counts represent total positive specimens from week ending October 10, 2015 to current MMWR week

**Source: CDRSS** 

**Frequency** 

Table of REGION by RESULT									
		RESULT							
REGION	Influenza A - Typing not performed	A - Typing Influenza not A 2009 Influenza Influenza							
Central East	52	3	1	19	75				
<b>Central West</b>	7	1	2	2	12				
Northeast	27	4	8	14	53				
Northwest	4	2	1	3	10				
South	24	0	1	11	36				
Total	114	10	13	49	186				

Communicable Disease Reporting and Surveillance System

# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 01/12/2016



01/19/2016 9:38 AM

Long Term Care				Schools		Hospi	tal Emergency	Dept	
COUNTY	# Enrolled	# Reports Rec'd	% I⊏I	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
January 12, 2016 MMWR WEEK 2									
ATLANTIC	6	1	0.00	40	32	6.95	4	4	1.90
BERGEN	4	2	0.00	34	25	3.10	5	5	3.07
BURLINGTON	6	3	0.00	79	49	4.48	4	4	1.80
CAMDEN	0	0	0.00	1	0	0.00	7	7	2.98
CAPE MAY	3	1	0.00	14	11	4.96	1	1	9.09
CUMBERLAND	5	5	1.29	11	11	9.06	3	3	2.94
ESSEX	2	0	0.00	4	4	2.84	8	7	4.64
GLOUCESTER	3	2	0.00	4	2	5.99	2	2	0.00
HUDSON	4	3	1.14	13	6	4.59	6	6	0.95
HUNTERDON	4	4	0.68	8	7	4.67	1	1	0.00
MERCER	3	0	0.00	22	18	4.29	5	4	4.50
MIDDLESEX	4	2	0.00	21	18	4.13	6	6	3.09
MONMOUTH	5	1	0.00	16	12	6.31	5	5	2.78
MORRIS	0	0	0.00	7	6	3.17	4	4	1.16
OCEAN	1	0	0.00	5	4	8.50	4	4	2.10
PASSAIC	6	6	1.17	24	15	3.16	3	3	5.22
SALEM	0	0	0.00	3	2	7.08	1	1	0.00
SOMERSET	3	1	2.05	22	17	3.50	1	1	4.26
SUSSEX	2	2	0.00	5	4	4.05	2	1	0.00
UNION	1	0	0.00	47	27	2.94	5	5	3.28
WARREN	4	1	0.00	20	15	4.25	2	2	9.38
NW Region	12	9	0.63	56	40	3.52	11	10	4.05
NE Region	10	5	0.52	51	35	3.40	19	18	3.51
CW Region	10	5	1.02	52	42	4.00	7	6	3.89
CE Region	11	3	0.00	89	61	4.36	20	20	2.80
South Region	23	12	0.71	152	107	5.83	22	22	2.43
State Total	66	34	0.61	400	285	4.73	79	76	3.11

User Name: HALDEMAN, ANNMARIE Page 1 of 1

Communicable Disease Reporting and Surveillance System

# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 01/12/2016



I	NJ Health
н	New Jersey Department of Health

	RSV Tests		Rapid Flu Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed
January 12, 2016 MMWR WEEK 2				
ATLANTIC	6	42	0	110
BERGEN	4	20	5	123
BURLINGTON	0	1	0	0
CAMDEN	9	34	4	171
CAPE MAY	2	13	0	25
CUMBERLAND	2	19	0	0
ESSEX	38	120	7	295
GLOUCESTER	9	35	2	111
HUDSON	10	45	7	82
HUNTERDON	5	12	0	72
MERCER	4	8	1	48
MIDDLESEX	23	64	0	46
MONMOUTH	42	129	7	402
MORRIS	0	0	0	0
OCEAN	7	24	1	52
PASSAIC	21	49	13	164
SALEM	0	0	0	0
SOMERSET	0	0	0	0
SUSSEX	0	0	0	0
UNION	21	117	0	9
WARREN	0	0	0	0
NW Region	21	49	13	164
NE Region	52	185	19	500
CW Region	9	20	1	120
CE Region	93	334	8	509
South Region	28	144	6	417
State Total	203	732	47	1710