

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



New Jersey Department of Health Communicable Disease Service

Week ending February 13, 2016 (MMWR week 6)

## **SYNOPSIS**

State Activity		2
State Activity	Week ending 2/13:	Patters   Fifty
MO	DERATE	Morre
Current weel	k Last year: HIGH	Trans of the Control
Regi	onal <sup>3</sup> Data	Manager Man
Northwest	MODERATE	Gurling on
Northeast	HIGH	California (California California
Central West	MODERATE	Salem Attunio Cumberland
Central East	HIGH	and the state of t
South	LOW	•

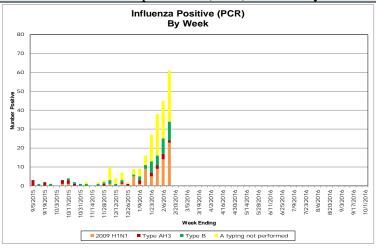
		ILI Activit	$y^4$	
	P	ercent ILI/Absente	eism	Baselines
	Current week (range by county)	Last week Current year	Current week Last year	Non-season <sup>5</sup> Season <sup>6</sup> (3 low, 3 high)
Long Term Care Facilities	0.40 (0.00, 1.98)	0.46	1.09	0.58 (0.60, 0.77)
Schools (absenteeism)	5.16 (2.90, 8.46)	4.45	4.79	3.56 (4.49, 4.85)
Emergency Departments	2.83 (0.00, 6.12)	3.30	4.99	2.39 (3.21, 4.20)

Viral Ac	ctivity <sup>7</sup>		
	Current Week	Past 3 Weeks	Cumulative Total
Influenza H1N1 (2009)	23	46	70
Influenza H3N2	1	6	18
Influenza B	10	23	44
Respiratory Syncytial Virus (RSV)	157	582	2378
Rapid Influenza Tests	125	304	731

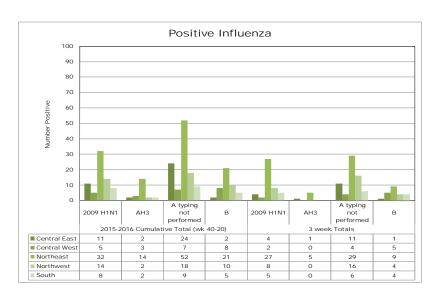
I	LINet P	Providers	
Current W	'eek	Previous W	<sup>7</sup> eek
#of reporters	%ILI	#of reporters	%ILI
8	5.81	23	3.77

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

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

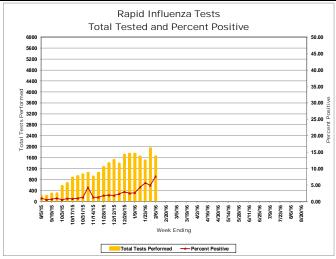


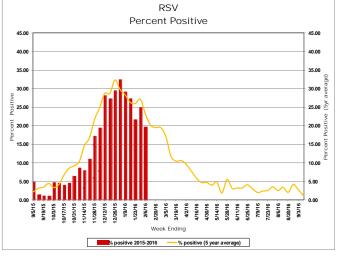
### Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>



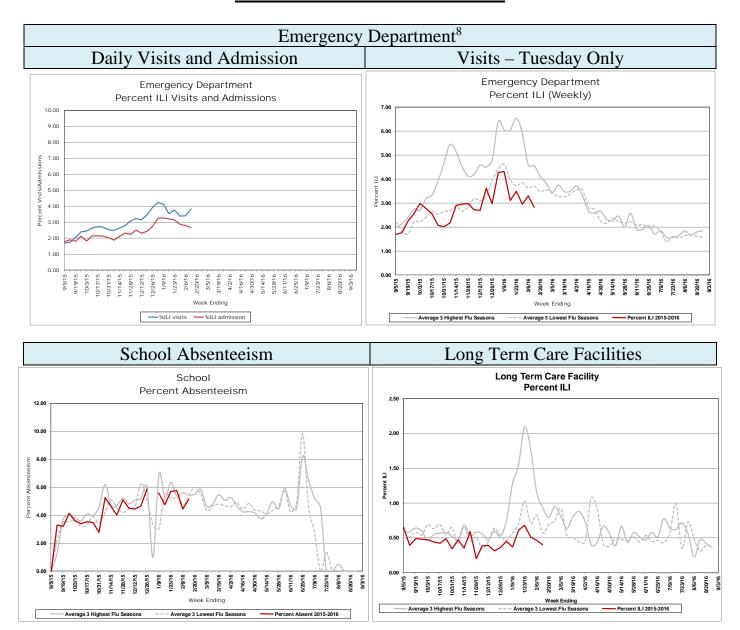
### Influenza Rapid Antigen Result by Week

# Respiratory Syncytial Virus (RSV) Results by Week





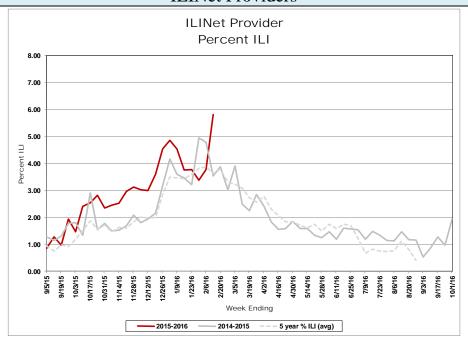
## **Influenza-like Illness Surveillance**



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

Cumulative outbreaks 2015-2016 season	9
No. outbreaks last 3 weeks	1
Regions with recent outbreaks	NE

## **ILINet Providers**



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

	Influenz	of Pediatric za Deaths d to CDC
Influenza season	NJ	US (includes NJ)
2010-2011	4	123
2011-2012	1	35
2012-2013	7	171
2013-2014	6	108
2014-2015	1	146
2015-2016	0	11

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>.

	I	<u>Table 1</u> nfluenza Activity Level – Definitions for	State Ac	ctivity
NJ Level	CSTE Level	i i	inition	•
		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	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.

## **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	22	2	1	1	26
BERGEN	48	26	11	22	107
BURLINGTON	10	3	1	11	25
CAMDEN	13	3	0	9	25
CUMBERLAND	1	0	0	0	1
ESSEX	29	3	2	4	38
GLOUCESTER	0	0	0	1	1
HUDSON	15	4	1	5	25
HUNTERDON	2	1	1	2	6
MERCER	8	0	3	10	21
MIDDLESEX	16	4	1	2	23
MONMOUTH	58	1	0	23	82
MORRIS	8	2	0	5	15
OCEAN	27	0	1	4	32
PASSAIC	18	7	1	7	33
SOMERSET	10	4	1	2	17
SUSSEX	2	0	0	0	2
UNION	26	6	0	1	33
WARREN	2	5	1	1	9
Total	315	71	25	110	521

#### **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 b	y RESULT		
		R	ESULT		
REGION	Influenza A - Typing not performed	Influenza A 2009 H1N1	Influenza AH3	Influenza B	Total
Central East	127	11	2	30	170
<b>Central West</b>	20	5	5	14	44
Northeast	92	33	14	31	170
Northwest	30	14	2	13	59
South	46	8	2	22	78
Total	315	71	25	110	521

Communicable Disease Reporting and Surveillance System

## NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 02/09/2016



02/16/2016 8:34 AM

		Long Term Car	re		Schools		Hospit	tal Emergency	Dept
COUNTY	# Enrolled	# Reports Rec'd		# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	₩ 
February 9, 2016 MMWR WEEK 6				,,,					
ATLANTIC	6	2	0.00	41	33	8.46	4	4	1.92
BERGEN	4	2	0.00	34	26	3.68	5	5	2.22
BURLINGTON	6	2	0.30	79	45	4.81	4	4	2.22
CAMDEN	0	0	0.00	1	0	0.00	7	7	3.39
CAPE MAY	3	0	0.00	14	11	5.39	1	1	6.12
CUMBERLAND	5	1	0.00	11	3	6.60	3	3	3.62
ESSEX	2	1	0.00	4	4	4.00	8	6	2.75
GLOUCESTER	3	2	0.00	4	4	5.97	2	2	1.83
HUDSON	4	3	1.98	13	7	4.12	6	6	2.56
HUNTERDON	4	4	0.00	8	7	4.43	1	1	0.00
MERCER	3	0	0.00	22	19	4.50	5	4	2.78
MIDDLESEX	4	1	0.34	21	17	3.99	6	6	3.62
MONMOUTH	5	2	1.80	16	14	6.07	5	5	2.95
MORRIS	0	0	0.00	8	7	3.58	4	4	1.01
OCEAN	1	0	0.00	5	5	7.41	4	4	1.79
PASSAIC	6	4	0.00	26	14	2.90	3	3	5.71
SALEM	0	0	0.00	3	3	6.11	1	1	6.06
SOMERSET	3	2	0.00	22	17	3.79	1	1	1.33
SUSSEX	2	2	0.00	5	5	3.57	2	2	0.00
UNION	1	0	0.00	49	32	5.84	5	5	3.60
WARREN	4	1	0.00	20	16	5.13	2	2	1.37
NW Region	12	7	0.00	59	42	3.65	11	11	3.23
NE Region	10	6	0.86	51	37	3.82	19	17	2.53
CW Region	10	6	0.00	52	43	4.20	7	6	2.12
CE Region	11	3	1.05	91	68	5.41	20	20	3.03
South Region	23	7	0.11	153	99	6.25	22	22	2.95
State Total	66	29	0.40	406	289	5.16	79	76	2.83

User Name: MCHUGH, LISA Page 1 of 1

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## NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 02/09/2016



02/16/2016 8:34 AM

	RSV	' Tests	Rapid F	lu Tests
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed
February 9, 2016 MMWR WEEK			,,	
ATLANTIC	11	44	4	90
BERGEN	2	12	17	151
BURLINGTON	0	0	0	0
CAMDEN	6	17	5	165
CAPE MAY	4	13	0	24
CUMBERLAND	0	0	0	0
ESSEX	15	107	24	302
GLOUCESTER	2	9	3	51
HUDSON	3	27	11	78
HUNTERDON	2	10	5	49
MERCER	0	7	1	40
MIDDLESEX	12	69	2	39
MONMOUTH	49	134	19	384
MORRIS	12	151	0	0
OCEAN	8	33	5	88
PASSAIC	10	41	26	130
SALEM	0	0	0	0
SOMERSET	0	0	0	0
SUSSEX	0	0	0	0
UNION	18	109	1	14
WARREN	3	31	2	45
NW Region	25	223	28	175
NE Region	20	146	52	531
CW Region	2	17	6	89
CE Region	87	345	27	525
South Region	23	83	12	330
State Total	157	814	125	1650

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