

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



New Jersey Department of Health Communicable Disease Service

Week ending February 20, 2016 (MMWR week 7)

## **SYNOPSIS**

	Influenza Activity Lev	$el^2$
State Activ	ity Week ending 2/20:	Duscos Je St
	HIGH	Marine Marine
Current w	eek Last year: <mark>HIGH</mark>	Francis .
Re	egional <sup>3</sup> Data	Morning Mon
Northwest	HIGH	Country Love At 1
Northeast	MODERATE	Say Carbon
Central West	HIGH	Subm Attantio Combestand
Central East	HIGH	
South	MODERATE	

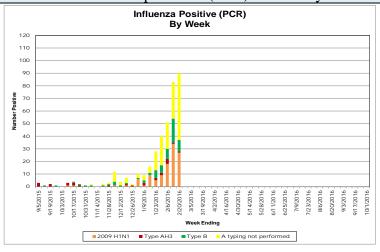
		ILI Activit	$y^4$	
	P	ercent ILI/Absente	eism	Baselines
	Current week (range by county)	Last week Current year	Current week Last year	Non-season <sup>5</sup> Season <sup>6</sup> (3 low, 3 high)
Long Term Care Facilities	0.43 (0.00, 1.83)	0.40	0.63	0.58 (0.60, 0.77)
Schools (absenteeism)	5.83 (0.00, 10.50)	5.16	9.22	3.56 (4.49, 4.85)
Emergency Departments	3.95 (0.00, 8.03)	2.83	3.84	2.39 (3.21, 4.20)

Viral Ac	ctivity <sup>7</sup>		
	Current Week	Past 3 Weeks	Cumulative Total
Influenza H1N1 (2009)	27	79	113
Influenza H3N2	1	6	20
Influenza B	9	36	34
Respiratory Syncytial Virus (RSV)	159	551	2540
Rapid Influenza Tests	165	386	897

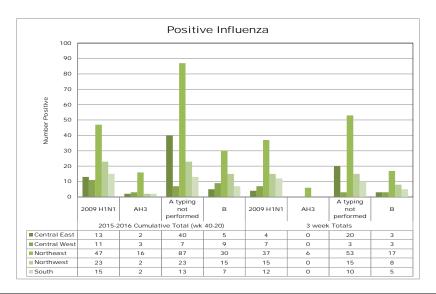
I	LINet P	Providers	
Current W	'eek	Previous W	<sup>7</sup> eek
#of reporters	%ILI	#of reporters	%ILI
11	5.28	21	4.71

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

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



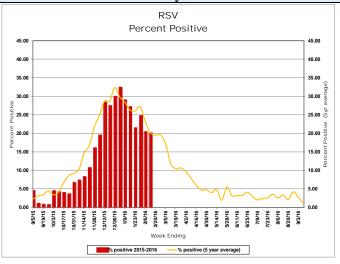
#### Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>



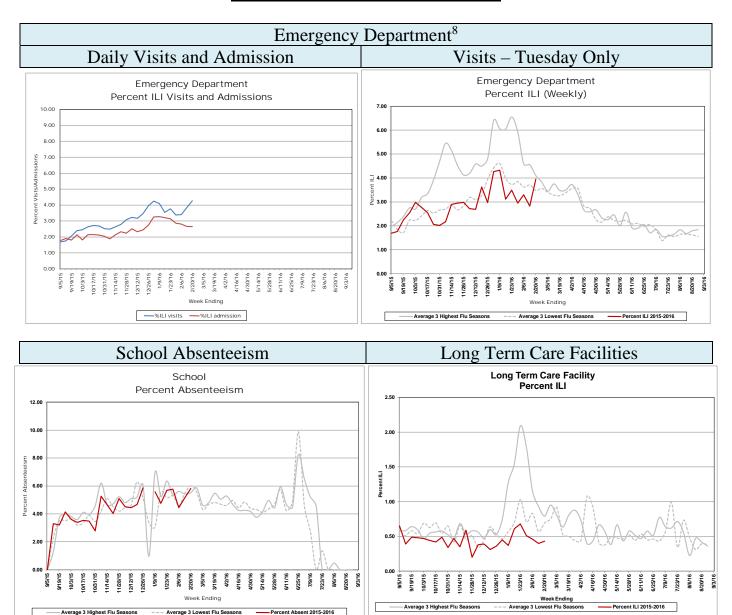
## Influenza Rapid Antigen Result by Week

# Result by week Rapid Influenza Tests Total Tested and Percent Positive 50.00 45.00

## Respiratory Syncytial Virus (RSV) Results by Week



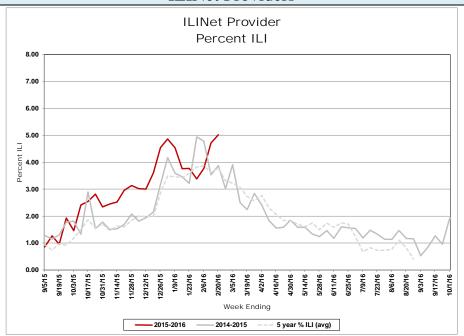
## **Influenza-like Illness Surveillance**



## 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





## 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	13

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.
- 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	31	2	1	2	36
BERGEN	86	38	12	31	167
BURLINGTON	11	7	1	12	31
CAMDEN	21	6	0	12	39
CUMBERLAND	1	0	0	0	1
ESSEX	40	3	3	4	50
GLOUCESTER	1	0	0	2	3
HUDSON	18	7	1	6	32
HUNTERDON	4	6	1	3	14
MERCER	16	0	3	10	29
MIDDLESEX	22	4	1	5	32
MONMOUTH	89	2	0	31	122
MORRIS	13	2	0	6	21
OCEAN	42	1	1	8	52
PASSAIC	24	15	1	11	51
SOMERSET	11	5	1	2	19
SUSSEX	3	0	0	1	4
UNION	42	6	0	2	50
WARREN	2	6	1	3	12
Total	477	110	27	151	765

#### **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	195	13	2	46	256
<b>Central West</b>	31	11	5	15	62
Northeast	144	48	16	41	249
Northwest	42	23	2	21	88
South	65	15	2	28	110
Total	477	110	27	151	765

Communicable Disease Reporting and Surveillance System

# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 02/16/2016



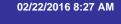
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		Long Term Care			Schools		Hospit	tal Emergency	Dept
COUNTY	# Enrolled	# Reports Rec'd	∏ %	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	∏ %
February 16, 2016 MMWR WEEK 7						· ·			
ATLANTIC	6	2	0.40	41	35	6.88	4	4	2.11
BERGEN	4	2	0.00	34	8	3.24	5	5	2.71
BURLINGTON	6	4	0.00	79	41	5.94	4	4	6.64
CAMDEN	0	0	0.00	1	0	0.00	7	7	5.48
CAPE MAY	3	0	0.00	14	10	5.82	1	1	1.92
CUMBERLAND	5	5	0.32	11	11	9.94	3	3	1.43
ESSEX	2	1	0.00	4	2	0.00	8	7	5.13
GLOUCESTER	3	2	0.81	4	2	6.88	2	2	2.37
HUDSON	4	2	1.33	13	5	5.50	6	6	2.27
HUNTERDON	4	4	1.34	8	6	6.51	1	1	4.17
MERCER	3	0	0.00	22	12	5.22	5	4	5.47
MIDDLESEX	4	1	0.00	21	20	3.91	6	6	4.92
MONMOUTH	5	2	1.83	16	12	6.92	5	5	3.34
MORRIS	0	0	0.00	8	5	3.90	4	4	1.37
OCEAN	1	0	0.00	5	5	6.88	4	4	3.22
PASSAIC	6	4	0.42	26	14	5.68	3	2	8.03
SALEM	0	0	0.00	3	2	6.41	1	1	0.00
SOMERSET	3	1	0.00	22	16	3.03	1	1	0.00
SUSSEX	2	2	0.00	5	3	10.50	2	2	2.22
UNION	1	0	0.00	49	27	5.50	5	5	1.71
WARREN	4	1	0.00	20	5	8.48	2	2	5.36
NW Region	12	7	0.18	59	27	6.12	11	10	4.88
NE Region	10	5	0.43	51	15	4.36	19	18	3.78
CW Region	10	5	1.02	52	34	4.29	7	6	4.18
CE Region	11	3	0.89	91	64	5.30	20	20	3.53
South Region	23	13	0.27	153	101	6.69	22	22	4.05
State Total	66	33	0.43	406	241	5.83	79	76	3.95

User Name: HALDEMAN, ANNMARIE Page 1 of 1

Communicable Disease Reporting and Surveillance System

# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 02/16/2016





	RSV	Tests	Rapid F	lu Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
February 16, 2016 MMWR WEEK	₹7	<u> </u>	, , , , , , , , , , , , , , , , , , ,		
ATLANTIC	14	48	6	82	
BERGEN	2	15	30	161	
BURLINGTON	2	3	0	0	
CAMDEN	3	16	7	153	
CAPE MAY	1	4	1	11	
CUMBERLAND	0	4	0	0	
ESSEX	8	113	32	346	
GLOUCESTER	12	31	4	111	
HUDSON	1	13	9	39	
HUNTERDON	5	14	5	61	П
MERCER	0	9	4	46	
MIDDLESEX	12	65	5	40	
MONMOUTH	49	134	28	336	
MORRIS	21	162	0	0	
OCEAN	1	13	2	76	
PASSAIC	0	2	25	55	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	0	0	0	
UNION	19	144	1	11	
WARREN	9	44	6	77	
NW Region	30	208	31	132	$\Box$
NE Region	11	141	71	546	
CW Region	5	23	9	107	
CE Region	81	356	36	463	
South Region	32	106	18	357	
State Total	159	834	165	1605	