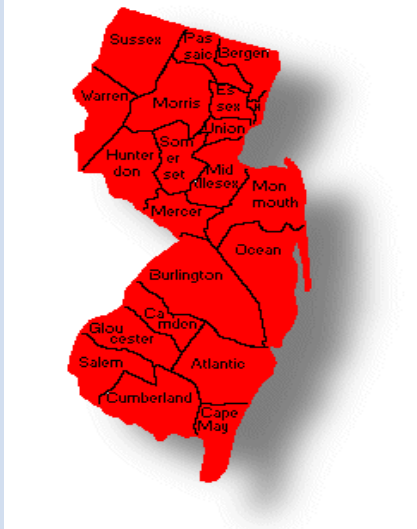


## Synopsis

Influenza Activity Level <sup>2</sup>	
<b>State Activity Week Ending 2/18:</b>	HIGH
<b>Current Week Last Year:</b>	HIGH
Regional <sup>3</sup> Data	
Northwest	HIGH
Northeast	HIGH
Central West	HIGH
Central East	HIGH
South	HIGH

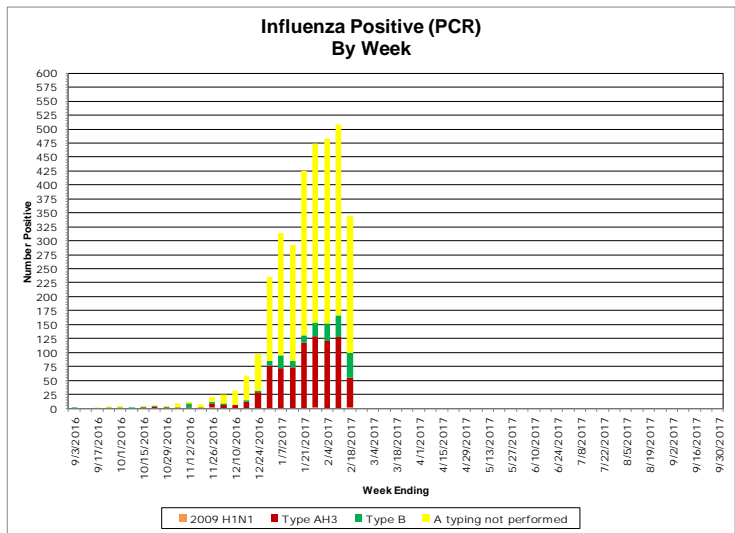


ILI Activity <sup>4</sup>				
	Percent ILI/Absenteeism			Baselines
	Current Week (range by county)	Last week Current year	Current week Last year	Non-season <sup>5</sup> Season <sup>6</sup> (3 low, 3 high)
<b>Long Term Care Facilities</b>	0.67 (0.00, 11.86)	0.88	0.43	0.56 (0.52, 0.76)
<b>Schools (Absenteeism)</b>	4.29 (2.94, 7.69)	4.70	5.83	3.42 (4.49, 4.81)
<b>Emergency Departments</b>	5.41 (2.65, 9.38)	5.89	3.95	2.35 (3.17, 3.81)

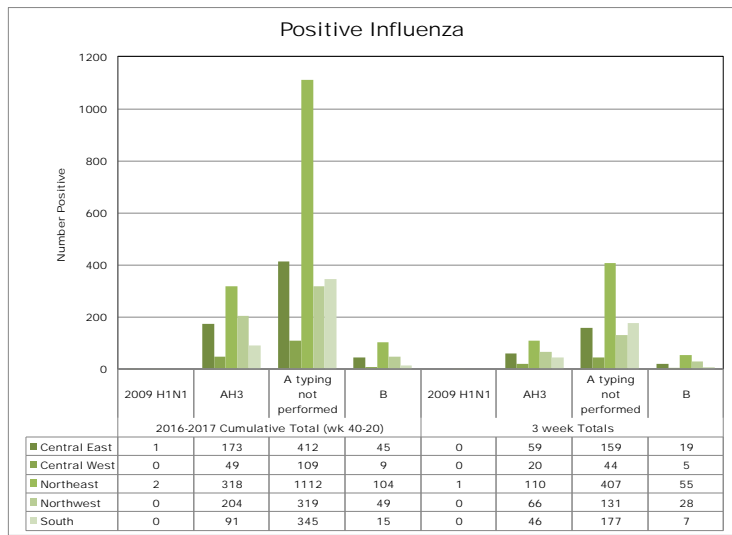
Viral Activity <sup>7</sup>			
	Current Week	Past 3 Weeks	Cumulative Total
<b>Influenza H1N1 (2009)</b>	1	1	3
<b>Influenza H3N2</b>	54	302	836
<b>Influenza B</b>	44	114	218
<b>Respiratory Syncytial Virus (RSV)</b>	112	361	2474
<b>Rapid Influenza Tests</b>	1237	3430	7123

# Virologic Surveillance<sup>7</sup>

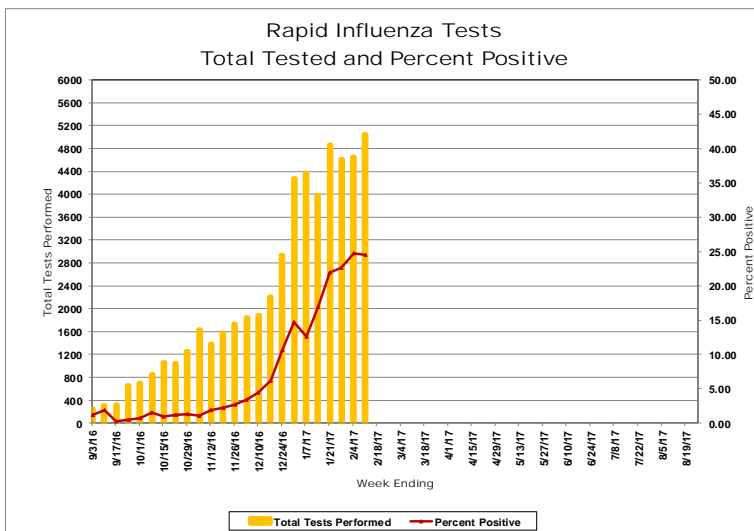
## Influenza Positive Specimens (PCR) – Result by Week



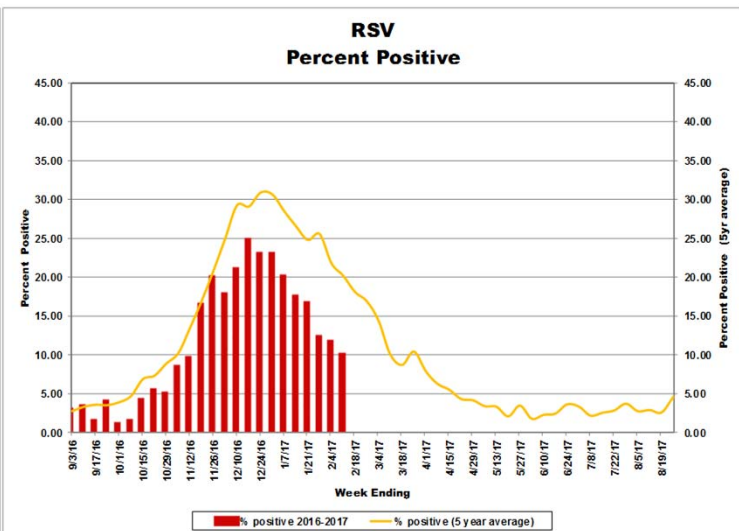
## Influenza Positive Specimens (PCR) – Result by Region<sup>3</sup>



## Influenza Rapid Antigen Result by Week



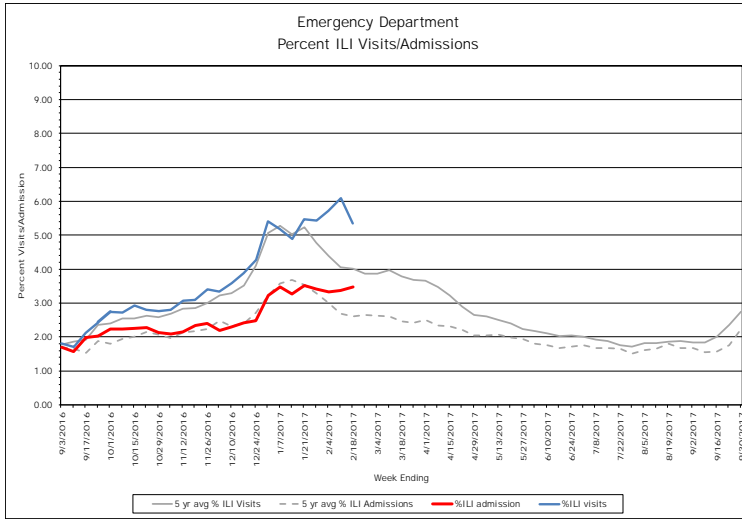
## Respiratory Syncytial Virus (RSV) Result by Week



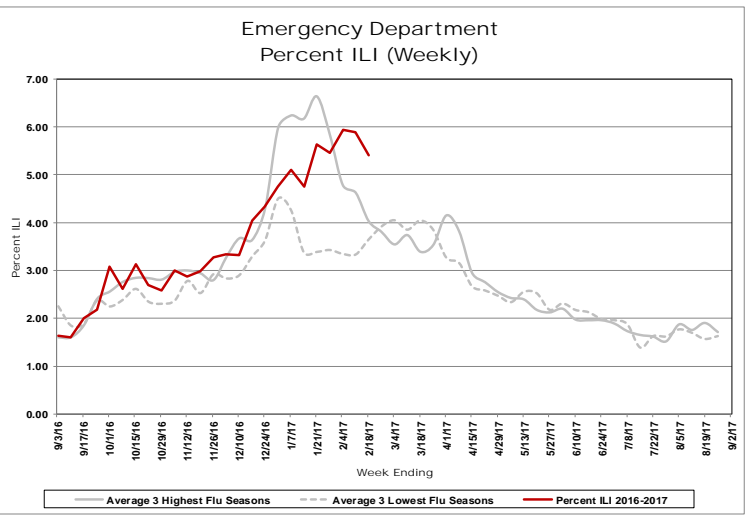
# Influenza-Like Illness Surveillance

## Emergency Department<sup>8</sup>

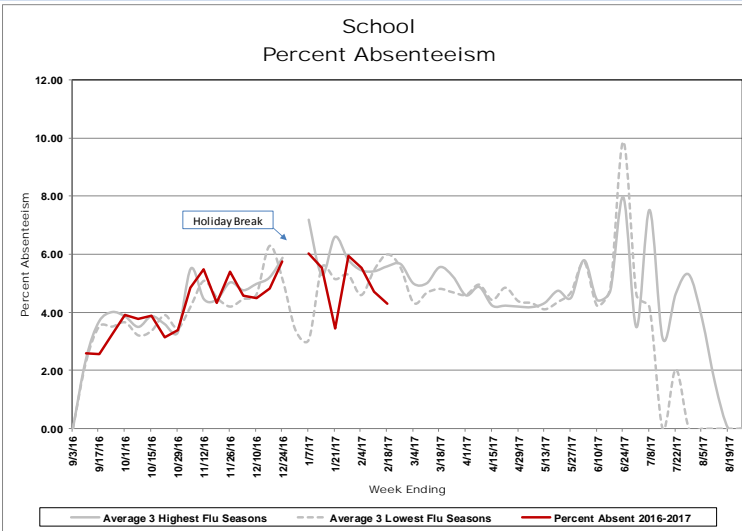
### Daily Visits and Admission



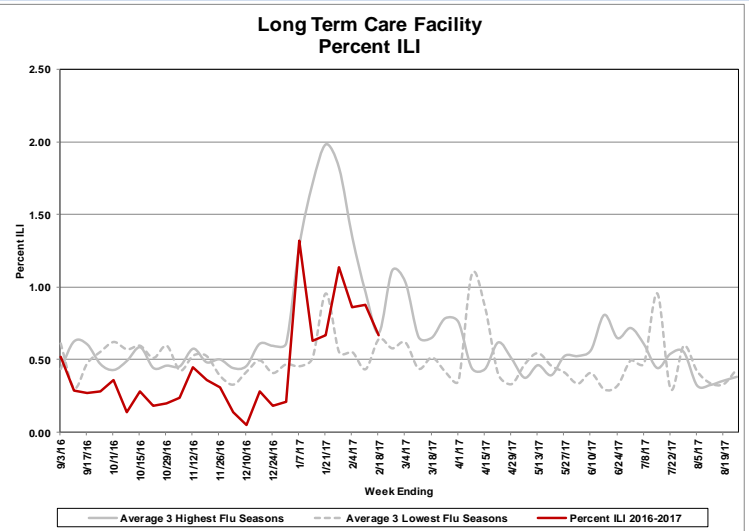
### Visits – Tuesday Only



### School Absenteeism



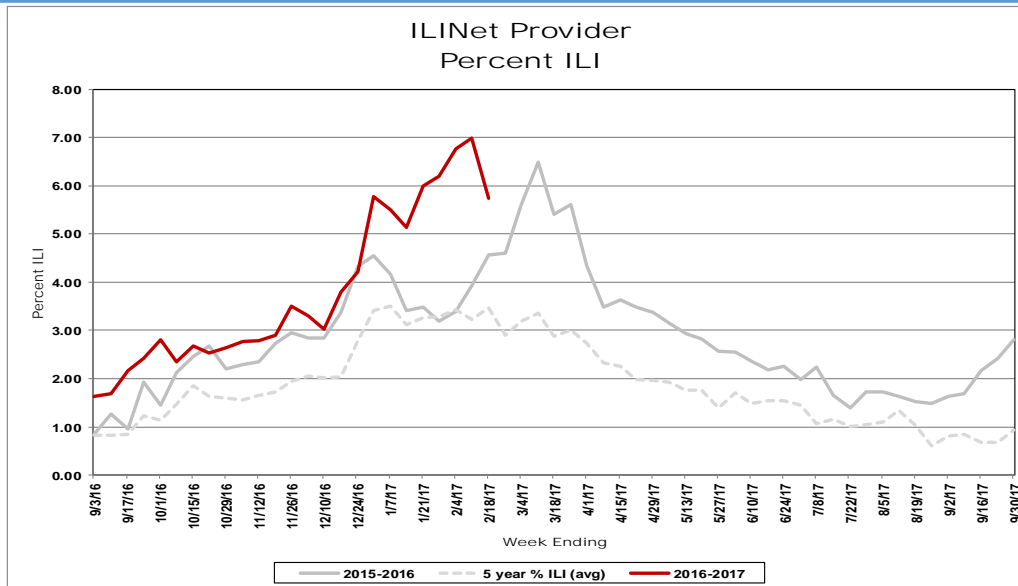
### Long Term Care Facilities



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

<b>Cumulative Outbreaks 2016-2017 season</b>	63
<b>No. outbreaks last 3 weeks</b>	12
<b>Regions with recent outbreaks</b>	NW, NE, CE, S

## ILINet Providers



ILINet Providers			
Current Week		Previous Week	
# of reporters	% ILI	# of reporters	% ILI
26	5.74	30	6.98

Pediatric Influenza Mortality <sup>10</sup>		
Number of Pediatric Influenza Deaths Reported to CDC		
Influenza Season	New Jersey	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	1	85
2016 – 2017	0	29

For additional information regarding influenza surveillance  
please visit the following websites.

<http://nj.gov/health/flu/surveillance.shtml>

<http://www.cdc.gov/flu/>

## 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 ( $> 100^{\circ}\text{F}$  [ $37.8^{\circ}\text{C}$ ], 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  $2^{\circ}\text{F}$  above baseline temperature.
5. Non-season baseline is calculated by taking the average of statewide percentages of ILI for a 11 year (2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015 and 2016) 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: 10-11, 12-13, 14-15; Low: 11-12, 13-14, 15-16), ED (High: 12-13, 13-14, 14-15; Low: 10-11, 11-12, 15-16 ) and schools (High: 10-11, 12-13, 15-16; 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 8, 2016. 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: <http://www.cdc.gov/flu/weekly/>.

**Table 1**  
**Influenza Activity Level – Definitions for State Activity**

<u>NJ Level</u>	<u>CSTE Level</u>	<u>Definition</u>		
		<u>ILI Activity/Outbreaks</u>		<u>Lab Activity</u>
Low	No Activity	ILI activity at or below baseline AND no detected outbreaks	AND	No lab confirmed cases
	Sporadic	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the state	AND	Sporadic isolation of laboratory confirmed influenza
Moderate	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
	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

**Table 2**  
**Influenza Activity Level – Definitions for Public Health Regions**

<u>NJ Level</u>	<u>Definition</u>		
	<u>ILI Activity/Outbreaks</u>		<u>Lab Activity</u>
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 7, 2016 to current MMWR week**

**Source: CDRSS**

Frequency	COUNTY(COUNTY)	RESULT				Total
		Influenza A - Typing not performed	Influenza A 2009 H1N1	Influenza AH3	Influenza B	
	ATLANTIC	381	0	29	23	433
	BERGEN	1236	1	203	102	1542
	BURLINGTON	226	0	8	21	255
	CAMDEN	639	0	30	24	693
	CAPE MAY	12	0	1	3	16
	CUMBERLAND	8	0	2	0	10
	ESSEX	319	1	48	34	402
	GLOUCESTER	178	0	36	8	222
	HUDSON	549	0	68	33	650
	HUNTERDON	86	0	23	4	113
	MERCER	203	0	16	10	229
	MIDDLESEX	260	0	35	26	321
	MONMOUTH	657	0	22	34	713
	MORRIS	364	0	76	32	472
	OCEAN	514	0	11	28	553
	PASSAIC	717	0	65	51	833
	SALEM	5	0	0	0	5
	SOMERSET	58	0	21	5	84
	SUSSEX	53	0	17	9	79
	UNION	344	1	106	39	490
	WARREN	73	0	45	10	128
	<b>Total</b>	<b>6882</b>	<b>3</b>	<b>862</b>	<b>496</b>	<b>8243</b>

## INFLUENZA LABORATORY REPORTS BY REGION

**Counts represent total positive specimens  
from week ending October 7, 2016 to current MMWR week**

**Source: CDRSS**

Frequency	Table of REGION by RESULT					
REGION	RESULT					Total
	Influenza A - Typing not performed	Influenza A 2009 H1N1	Influenza AH3	Influenza B		
Central East	1775	1	174	127		2077
Central West	347	0	60	19		426
Northeast	2104	2	319	169		2594
Northwest	1207	0	203	102		1512
South	1449	0	106	79		1634
<b>Total</b>	<b>6882</b>	<b>3</b>	<b>862</b>	<b>496</b>		<b>8243</b>

***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***



**SURVEILLANCE DATE: 02/14/2017**



COUNTY	Long Term Care			Schools			Hospital Emergency Dept		
	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
<b>February 14, 2017 MMWR WEEK 7</b>									
ATLANTIC	6	0	0.00	43	22	5.24	4	4	4.21
BERGEN	10	6	0.24	37	20	3.32	6	6	3.70
BURLINGTON	8	4	0.48	95	62	4.67	4	3	3.26
CAMDEN	1	0	0.00	1	0	0.00	7	7	7.13
CAPE MAY	3	0	0.00	14	8	5.08	1	1	5.77
CUMBERLAND	5	5	1.09	12	10	7.69	3	3	5.06
ESSEX	7	3	0.00	4	2	3.90	8	7	6.71
GLOUCESTER	3	1	11.86	4	2	5.79	2	2	6.67
HUDSON	4	2	2.02	14	8	4.21	6	6	4.09
HUNTERDON	4	4	0.66	8	5	5.31	1	1	3.16
MERCER	3	1	0.00	22	14	3.12	5	4	4.79
MIDDLESEX	11	8	0.00	22	18	3.64	6	6	5.54
MONMOUTH	6	2	0.00	16	7	4.79	5	5	4.88
MORRIS	2	0	0.00	9	5	4.30	4	4	4.00
OCEAN	8	2	0.00	5	4	5.50	4	4	6.79
PASSAIC	10	3	1.53	29	14	2.94	3	3	6.53
SALEM	0	0	0.00	3	3	5.33	1	1	7.55
SOMERSET	4	0	0.00	23	15	3.70	1	1	4.97
SUSSEX	2	2	0.00	5	3	3.99	2	2	2.65
UNION	1	0	0.00	51	22	3.06	5	5	5.10
WARREN	5	3	0.00	20	11	3.32	2	2	9.38
<b>NW Region</b>	<b>19</b>	<b>8</b>	<b>0.76</b>	<b>63</b>	<b>33</b>	<b>3.26</b>	<b>11</b>	<b>11</b>	<b>5.46</b>
<b>NE Region</b>	<b>21</b>	<b>11</b>	<b>0.63</b>	<b>55</b>	<b>30</b>	<b>3.65</b>	<b>20</b>	<b>19</b>	<b>5.21</b>
<b>CW Region</b>	<b>11</b>	<b>5</b>	<b>0.66</b>	<b>53</b>	<b>34</b>	<b>3.77</b>	<b>7</b>	<b>6</b>	<b>4.63</b>
<b>CE Region</b>	<b>26</b>	<b>12</b>	<b>0.00</b>	<b>94</b>	<b>51</b>	<b>3.61</b>	<b>20</b>	<b>20</b>	<b>5.53</b>
<b>South Region</b>	<b>26</b>	<b>10</b>	<b>1.52</b>	<b>172</b>	<b>107</b>	<b>5.15</b>	<b>22</b>	<b>21</b>	<b>5.68</b>
<b>State Total</b>	<b>103</b>	<b>46</b>	<b>0.67</b>	<b>437</b>	<b>255</b>	<b>4.29</b>	<b>80</b>	<b>77</b>	<b>5.41</b>

**SURVEILLANCE DATE: 02/14/2017**



County	RSV Tests		Rapid Flu Tests	
	# Positive	Total Tests Performed	# Positive	Total Tests Performed
February 14, 2017 MMWR WEEK 7				
ATLANTIC	2	27	75	292
BERGEN	7	40	244	696
BURLINGTON	0	1	5	45
CAMDEN	3	18	56	385
CAPE MAY	2	20	15	85
CUMBERLAND	0	0	0	0
ESSEX	16	188	215	991
GLOUCESTER	0	1	27	205
HUDSON	0	8	18	61
HUNTERDON	6	26	22	134
MERCER	0	6	97	361
MIDDLESEX	3	71	16	123
MONMOUTH	16	120	160	678
MORRIS	20	192	43	171
OCEAN	3	18	58	208
PASSAIC	9	41	116	342
SALEM	0	0	0	0
SOMERSET	0	0	0	0
SUSSEX	12	137	44	141
UNION	9	148	1	9
WARREN	4	72	25	123
<b>NW Region</b>	45	442	228	777
<b>NE Region</b>	23	236	477	1748
<b>CW Region</b>	6	32	119	495
<b>CE Region</b>	31	357	235	1018
<b>South Region</b>	7	67	178	1012
<b>State Total</b>	112	1134	1237	5050