

Respiratory Virus Surveillance Report¹



New Jersey Department of Health Communicable Disease Service

Week ending March 28, 2015 (MMWR week 12)

SYNOPSIS

| | Influenza Activity Lev | el ² |
|--------------|---------------------------|-------------------|
| State Activ | ity Week ending 3/28: | |
| | HIGH | Dussey fras |
| Current w | eek Last year: HIGH | Martin Month Book |
| Re | egional ³ Data | Funce or Add Stan |
| Northwest | MODERATE | Ocean Comment |
| Northeast | HIGH | Blog Callington |
| Central West | HIGH | Sulem Attacks |
| Central East | HIGH | Caro (May |
| South | HIGH | • |

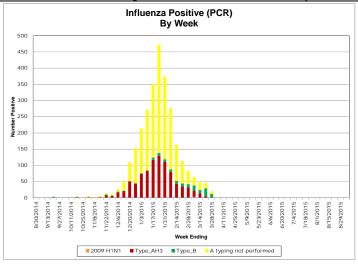
| | | ILI Activit | \mathbf{y}^4 | |
|------------------------------|--------------------------------|---------------------------|---------------------------|--|
| | P | ercent ILI/Absente | eism | Baselines |
| | Current week (range by county) | Last week Current year | Current week Last year | Non-season ⁵ Season ⁶ (3 low, 3 high) |
| Long Term Care Facilities | 0.82 (0.00, 3.72) | 0.50 | 0.19 | 0.59 (0.59, 0.78) |
| Schools (absenteeism) | 4.97 (2.51, 7.02) | 4.35 | 4.59 | 3.63 (4.56, 4.95) |
| Emergency Departments | 3.29 (0.86, 6.94) | 3.41 | 3.42 | 2.44 (3.17, 4.16) |

| Viral A | ctivity ⁷ | | |
|-----------------------------------|----------------------|-----------------|---------------------|
| | Current Week | Past 3 Weeks | Cumulative Total |
| Influenza H1N1 (2009) | 0 | 0 | 7 |
| Influenza H3N2 | 2 | 21 | 895 |
| Influenza B | 10 | 44 | 137 |
| Respiratory Syncytial Virus (RSV) | 44 | 139 | 2265 |
| Rapid Influenza Tests | 79 | 331 | 6596 |

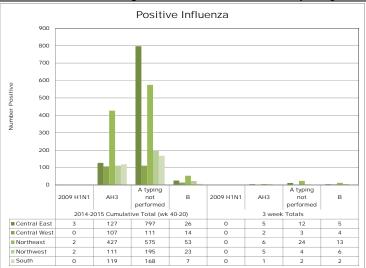
| I | LINet P | roviders | |
|---------------|---------|---------------|------------------|
| Current W | eek | Previous W | ⁷ eek |
| #of reporters | %ILI | #of reporters | %ILI |
| 17 | 2.50 | 22 | 2.90 |

Virologic Surveillance⁷

Influenza Positive Specimens (PCR) - Result by Week

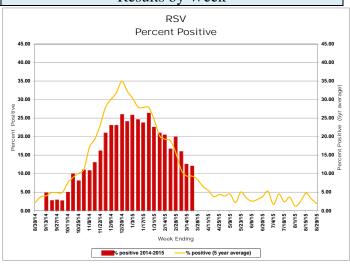


Influenza Positive Specimens (PCR)- Result by Region³

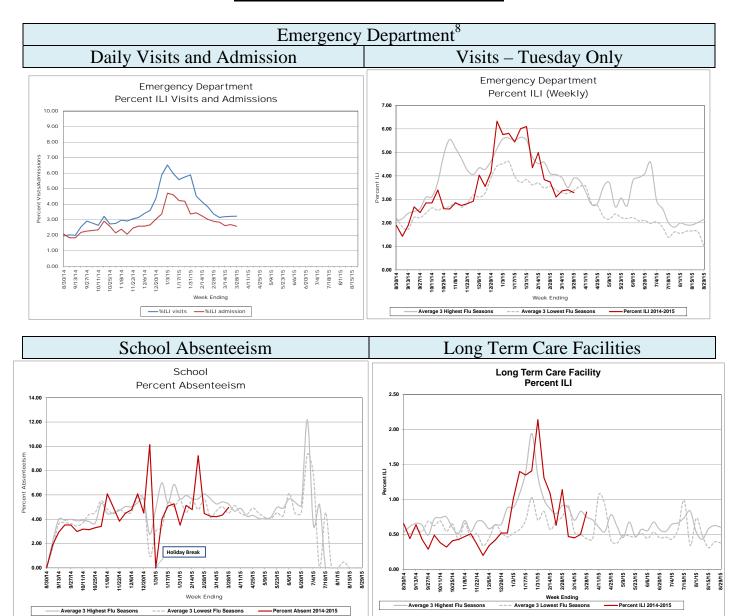


Influenza Rapid Antigen Result by Week

Respiratory Syncytial Virus (RSV) Results by Week



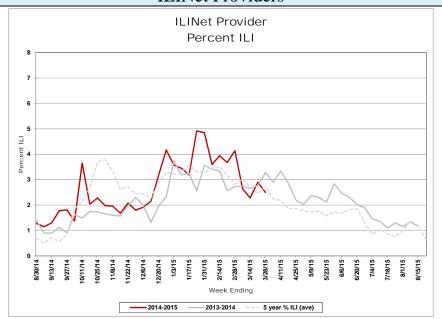
Influenza-like Illness Surveillance



Respiratory Outbreaks in Long Term Care Facilities⁹

| Cumulative outbreaks 2014-2015 season | 101 |
|--|-----|
| No. outbreaks last 3 weeks | 1 |
| Regions with recent outbreaks | NE |





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°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 9 year (2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, and 2014) 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: 08-09,09-10, 12-13; Low: 10-11,11-12,13-14), ED (High:08-09, 09-10,12-13; Low: 10-11, 11-12,13-14) and schools (High: 08-09, 10-11, 12-13; Low: 09-10, 11-12,13-14). 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 4, 2014. 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: 03/24/2015



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| | | Long Term Car | е | | Schools | | Hospi | tal Emergency | Dept |
|-----------------------------|------------|--------------------|------------|------------|--------------------|----------|------------|--------------------|-------|
| COUNTY | # Enrolled | # Reports Rec'd | □ % | # Enrolled | # Reports Rec'd | % Absent | # Enrolled | # Reports Rec'd | % ILI |
| March 24, 2015 MMWR WEEK 12 | | <u></u> | | | — | | | | |
| ATLANTIC | 7 | 0 | 0.00 | 71 | 30 | 5.56 | 4 | 4 | 0.86 |
| BERGEN | 5 | 3 | 0.00 | 128 | 14 | 3.76 | 5 | 4 | 3.28 |
| BURLINGTON | 8 | 2 | 0.44 | 122 | 53 | 6.68 | 4 | 3 | 4.82 |
| CAMDEN | 5 | 0 | 0.00 | 17 | 0 | 0.00 | 7 | 7 | 3.18 |
| CAPE MAY | 7 | 1 | 0.00 | 11 | 8 | 4.87 | 1 | 1 | 1.20 |
| CUMBERLAND | 5 | 4 | 0.60 | 24 | 11 | 6.52 | 3 | 3 | 4.26 |
| ESSEX | 13 | 0 | 0.00 | 27 | 1 | 2.51 | 8 | 7 | 4.30 |
| GLOUCESTER | 4 | 1 | 0.00 | 7 | 3 | 4.65 | 2 | 2 | 3.46 |
| HUDSON | 16 | 1 | 0.37 | 92 | 19 | 4.89 | 6 | 6 | 1.09 |
| HUNTERDON | 4 | 4 | 0.92 | 8 | 6 | 3.69 | 1 | 1 | 1.05 |
| MERCER | 8 | 1 | 0.00 | 32 | 15 | 4.04 | 5 | 4 | 4.41 |
| MIDDLESEX | 21 | 2 | 3.72 | 37 | 14 | 3.92 | 6 | 6 | 3.72 |
| MONMOUTH | 15 | 2 | 0.00 | 24 | 13 | 5.64 | 5 | 5 | 5.04 |
| MORRIS | 4 | 0 | 0.00 | 5 | 0 | 0.00 | 4 | 4 | 1.02 |
| OCEAN | 24 | 0 | 0.00 | 24 | 7 | 4.89 | 4 | 3 | 6.94 |
| PASSAIC | 14 | 4 | 0.36 | 73 | 15 | 2.86 | 3 | 2 | 2.35 |
| SALEM | 1 | 0 | 0.00 | 15 | 1 | 5.06 | 1 | 1 | 5.80 |
| SOMERSET | 7 | 2 | 0.00 | 92 | 13 | 3.72 | 1 | 0 | 0.00 |
| SUSSEX | 6 | 1 | 0.00 | 24 | 1 | 3.12 | 2 | 2 | 1.01 |
| UNION | 4 | 0 | 0.00 | 197 | 1 | 7.02 | 5 | 5 | 1.16 |
| WARREN | 4 | 2 | 0.00 | 27 | 9 | 3.75 | 2 | 2 | 1.49 |
| NW Region | 28 | 7 | 0.28 | 129 | 25 | 3.03 | 11 | 10 | 1.34 |
| NE Region | 34 | 4 | 0.08 | 247 | 34 | 4.53 | 19 | 17 | 3.24 |
| CW Region | 19 | 7 | 0.56 | 132 | 34 | 3.84 | 7 | 5 | 3.78 |
| CE Region | 64 | 4 | 3.11 | 282 | 35 | 4.68 | 20 | 19 | 4.03 |
| South Region | 37 | 8 | 0.45 | 267 | 106 | 6.07 | 22 | 21 | 3.15 |
| State Total | 182 | 30 | 0.82 | 1057 | 234 | 4.97 | 79 | 72 | 3.29 |

User Name: THOMAS, DEEPAM Page 1 of 1

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 03/24/2015



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| | RSV | Tests | Flu | Tests |
|----------------------------|------------|-----------------------------|------------|-----------------------------|
| County | # Positive | Total Tests Performed | # Positive | Total Tests Performed |
| March 24, 2015 MMWR WEEK 1 | | | | |
| ATLANTIC | 0 | 6 | 0 | 34 |
| BERGEN | 0 | 5 | 10 | 136 |
| BURLINGTON | 0 | 0 | 0 | 9 |
| CAMDEN | 1 | 16 | 4 | 154 |
| CAPE MAY | 1 | 5 | 0 | 14 |
| CUMBERLAND | 0 | 0 | 0 | 0 |
| ESSEX | 8 | 49 | 13 | 175 |
| GLOUCESTER | 3 | 17 | 6 | 106 |
| HUDSON | 12 | 80 | 3 | 36 |
| HUNTERDON | 4 | 14 | 1 | 58 |
| MERCER | 0 | 3 | 1 | 31 |
| MIDDLESEX | 2 | 61 | 8 | 61 |
| MONMOUTH | 11 | 81 | 25 | 395 |
| MORRIS | 2 | 15 | 0 | 37 |
| OCEAN | 0 | 5 | 8 | 65 |
| PASSAIC | 0 | 1 | 0 | 12 |
| SALEM | 0 | 0 | 0 | 0 |
| SOMERSET | 0 | 0 | 0 | 0 |
| SUSSEX | 0 | 0 | 0 | 1 |
| UNION | 0 | 22 | 0 | 9 |
| WARREN | 0 | 0 | 0 | 0 |
| NW Region | 2 | 16 | 0 | 50 |
| NE Region | 20 | 134 | 26 | 347 |
| CW Region | 4 | 17 | 2 | 89 |
| CE Region | 13 | 169 | 41 | 530 |
| South Region | 5 | 44 | 10 | 317 |
| State Total | 44 | 380 | 79 | 1333 |