

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending November 8, 2008 (MMWR Week 45)

Influenza Activity Level: **NO ACTIVITY**

NOTE: One reporting parameters is above state baseline. Only reports of rapid antigen test positives have been received.

No Activity- At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases

Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the state within previous 3 weeks **OR** at least one laboratory confirmed outbreak in an institution anywhere in the state

Local – At least 2 or 3 parameters above state baseline in a single county **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county

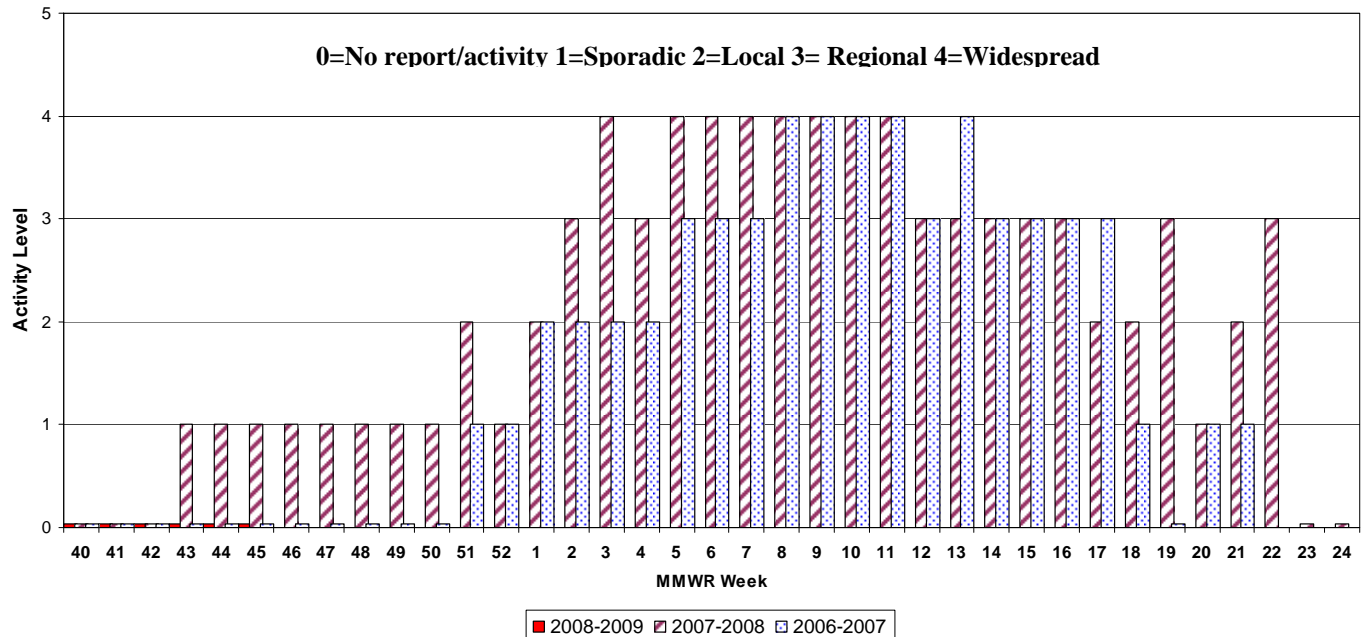
Regional – At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties

Widespread – At least 2 of 3 parameters above state baseline in > 10 counties **OR** institutional outbreaks in > 10 counties **AND** lab confirmed influenza cases in previous 3 weeks.

Parameter = School, emergency department, or long term care weekly surveillance data

Off season baseline is calculated by taking the average of statewide percentages of ILI for a 3 year (2006, 2007, 2008) period during months when influenza is less likely to be circulating (May-August).

New Jersey Department of Health and Senior Services
Statewide Influenza Activity Levels



Regional Data

NO ACTIVITY – NW, NE, CW, CE AND SOUTH

Public Health Regions

NW Region (Morris, Passaic, Sussex, Warren)

NE Region (Bergen, Essex, Hudson)

CW Region (Hunterdon, Mercer, Somerset)

CE Region (Middlesex, Monmouth, Ocean, Union)

South Region (Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Salem)

No Activity- At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases in the public health region

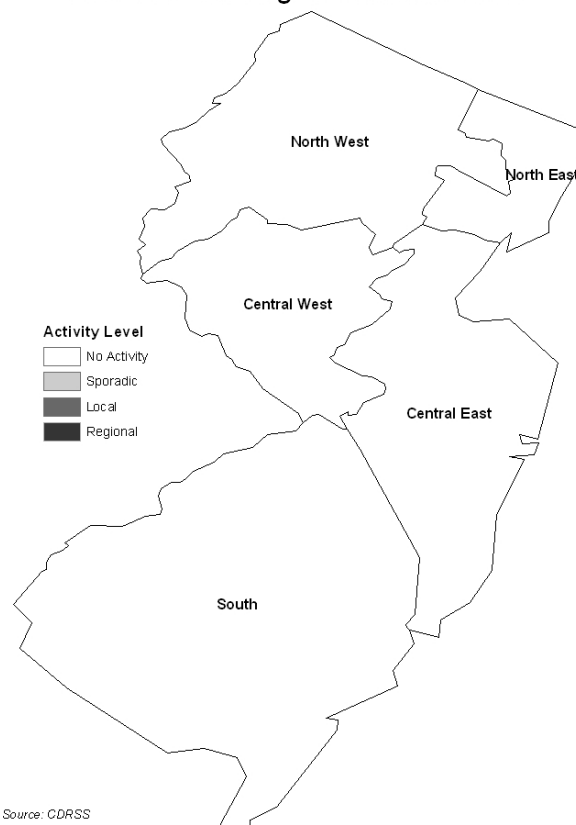
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

Local – At least 2 or 3 parameters above state baseline in a single county of a public health region **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county of a public health region

Regional – At least 2 of 3 parameters above state baseline in at least half of counties of public health region **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in at least half of counties of public health region counties

Widespread – Not used for public health region data

Public Health Region Influenza Data



Laboratory Surveillance

As of week 44, no samples have been found to be positive by viral culture. Nine samples have tested positive for influenza via rapid antigen tests. Results from rapid testing during periods of low influenza prevalence can be unreliable. Rapid and culture results by county are displayed below.

| County | Week 40 to Week 44 | | | | | | | Week 42, 43,44 | | | | | | |
|-------------------|--------------------|---|-----|----------|------|-------|---|----------------|---|-----|----------|------|-------|---|
| | Rapid* | | | Culture* | | | | Rapid* | | | Culture* | | | |
| | A | B | A/B | A H1 | A H3 | A UNK | B | A | B | A/B | A H1 | A H3 | A UNK | B |
| Atlantic County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bergen County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Burlington County | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Camden County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cape May County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumberland County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Essex County | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| Gloucester County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hudson County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hunterdon County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mercer County | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middlesex County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Monmouth County | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Morris County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ocean County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Passaic County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Salem County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Somerset County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sussex County | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Union County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Warren County | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| State Total | 8 | 0 | 2 | 0 | 0 | 0 | 0 | 7 | 0 | 2 | 0 | 0 | 0 | 0 |

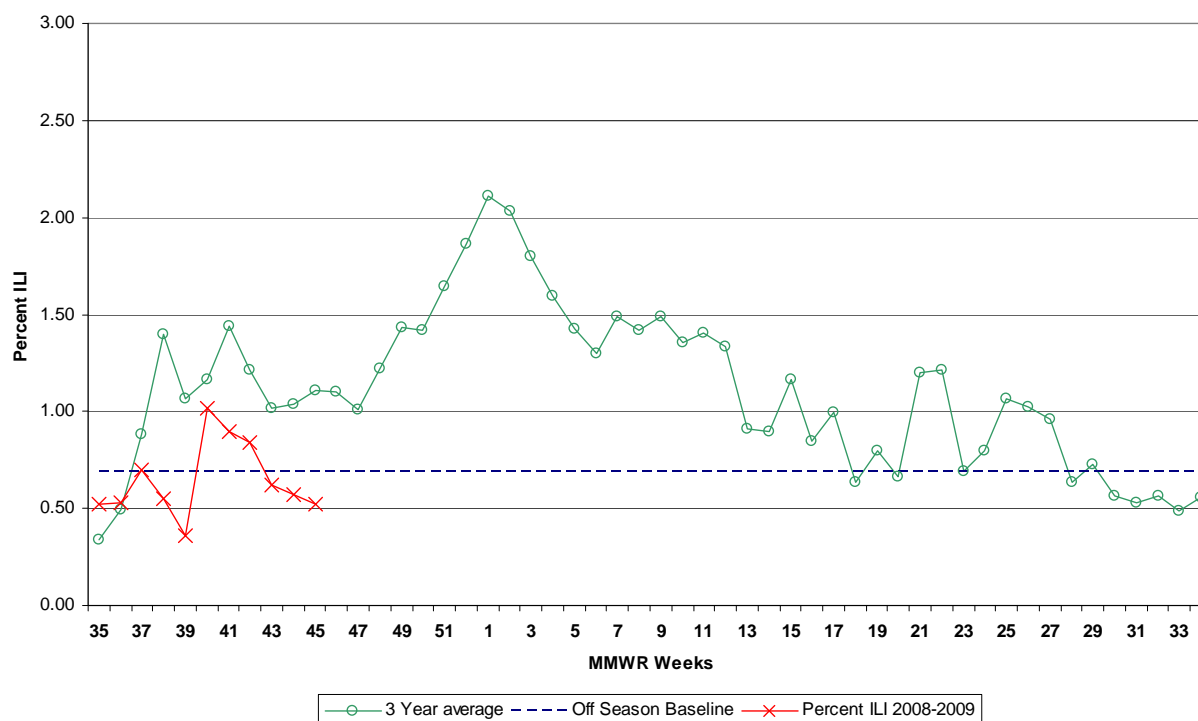
*Rapid data is acquired from facilities reporting rapid influenza tests via NREVSS or CDRSS ILI module. Culture results are obtained from the LIMS system at PHEL, hospital viral culture laboratories via NREVSS or commercial laboratories reporting in CDRSS.

Influenza-like Illness (ILI) Surveillance*

Long-term Care Facilities

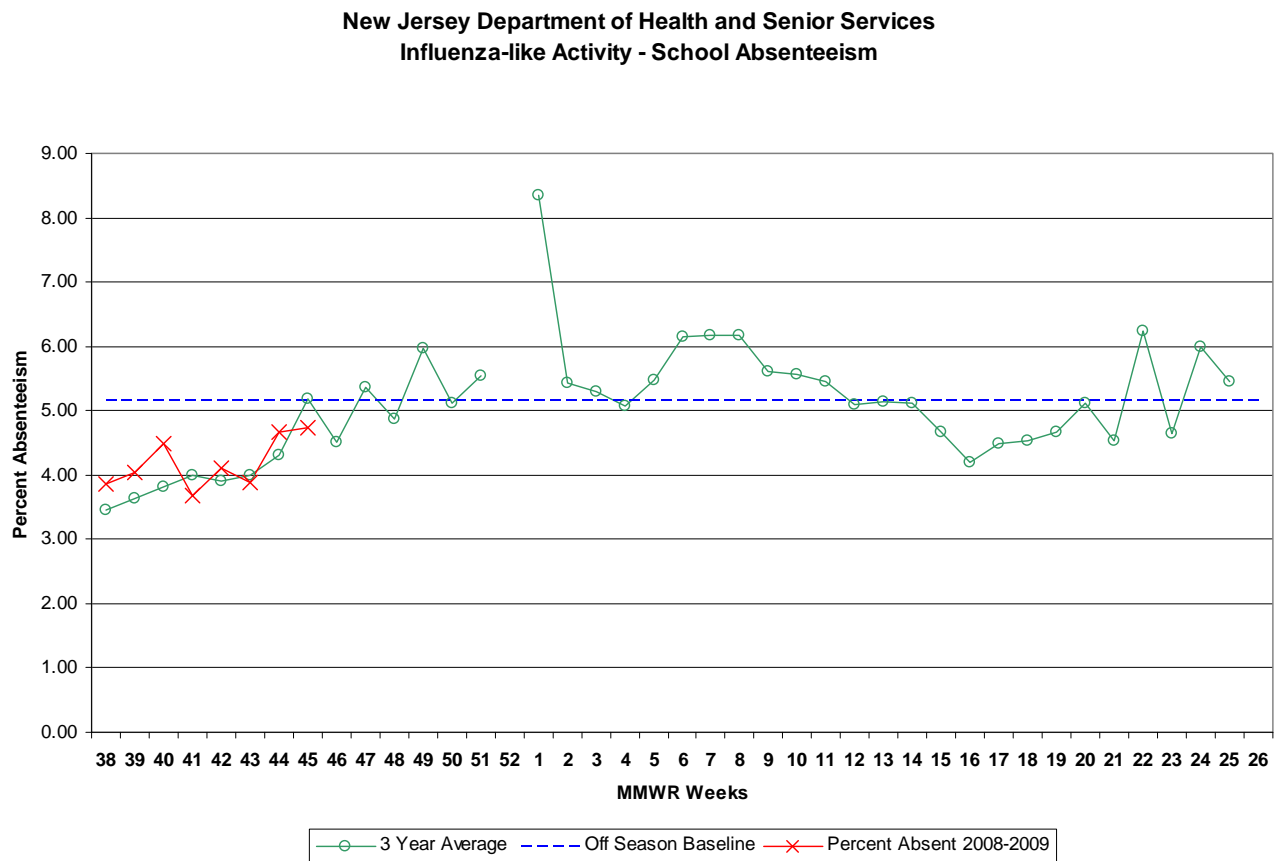
During week 45, 0.52% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (0.57%). The percent ILI for each county ranged from 0.00% to 2.74%. The percent ILI for this same week last year was 0.41% in long-term care facilities. The percent ILI for the central west (1.07%) public health region was above the state baseline (0.69%). One respiratory outbreak report in a long term care facilities was received in week 45.

New Jersey Department of Health and Senior Services
Influenza-like Activity - Long Term Care Facilities



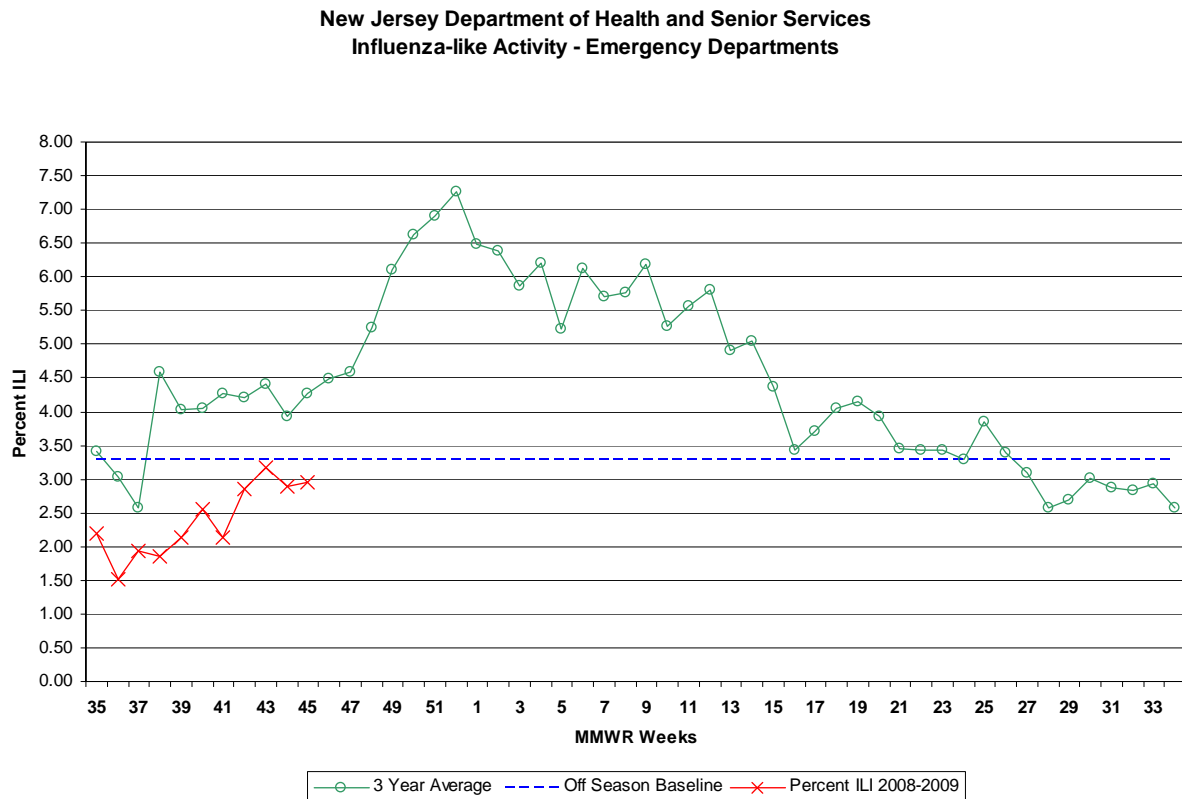
School Absenteeism

During week 45, schools reported 4.73% absenteeism. This is an increase over the previous week (4.67%). The percent ILI for each county ranged from 1.96 – 6.77%. The percent absent for this same week last year was 5.11%. The percent ILI for the central east (5.54%) and south (5.70%) public health regions were above the state baseline (5.17%).



Emergency Departments

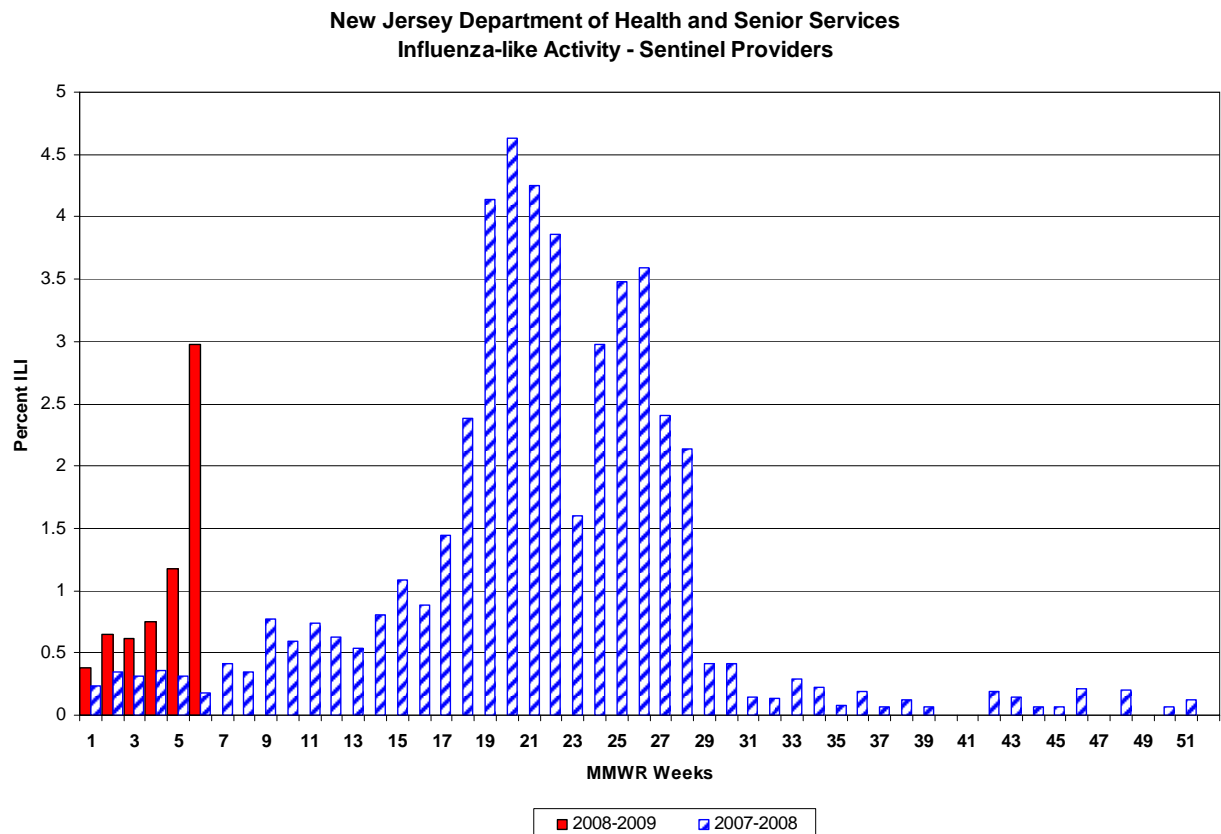
During week 45, 2.95% of ILI was reported statewide from emergency departments. This is an increase over the previous week (2.89%). The percent ILI for each county ranged from 0.00 to 13.33%. The percent ILI for this same week last year was 3.85% in emergency departments. The percent ILI for the northwest (4.15%) and northeast (4.91%) public health regions were above the state baseline (2.60%).



Sentinel Provider Surveillance (at time of report data unavailable for week 45)

During week 44, 1.17% of sentinel provider patient visits were due to ILI. These data reflect reports from thirteen (33%) of the enrolled sentinel providers.

During week 43, 0.75% of sentinel provider patient visits were due to ILI. These data reflect reports from eighteen (45%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

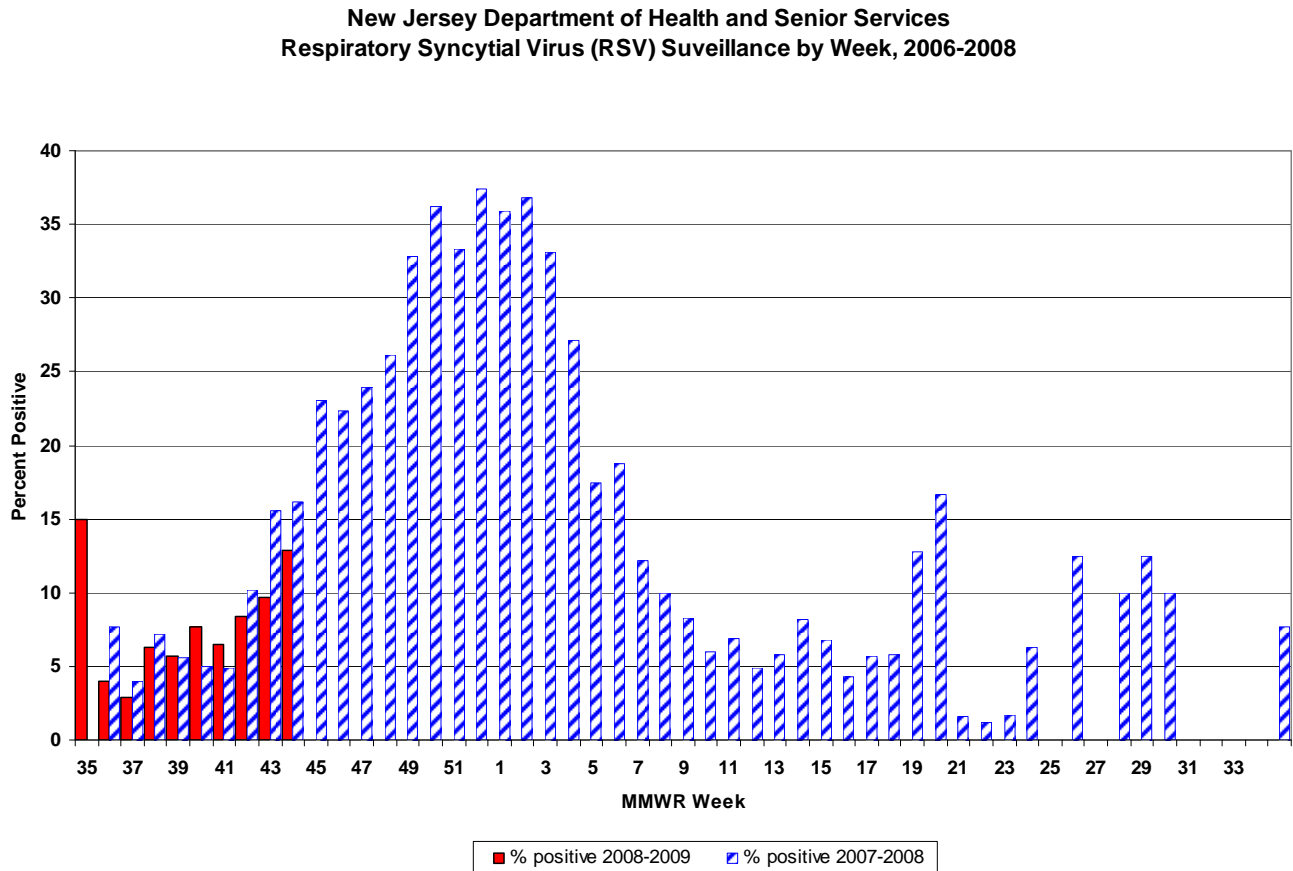
To date, NJDHSS has received three reports of pediatric illness meeting the case definition.

122 City Mortality Report

During week 44, 0.92% of all deaths reported by the vital statistics offices in 6 New Jersey cities (i.e., Camden, Elizabeth, Jersey City, Newark, Paterson, Trenton) were due to pneumonia or influenza. This is a decrease over the previous week (5.80%). The percentage of death due to pneumonia or influenza for this same week last year was 4.12%.

RSV Reports

During week 44, 12.92% of all RSV samples tested were positive. This is an increase over the previous week 9.65%. The percent of samples positive for RSV for this same week last year was 16.18%.



Additional Information

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

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

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

* Off Season baseline is calculated by taking the average of statewide percentages of ILI for a 3 year (2006, 2007, 2008) period during months when influenza is less likely to be circulating (May-August).

**Three year average is an average of the 2005-2006, 2006-2007, 2007-2008 influenza seasons.



| | Long Term Care | | | Schools | | | Hospital Emergency Department | | | RSV Tests | |
|--------------|----------------|--------------------|-------|------------|--------------------|----------|-------------------------------------|--------------------|-------|------------|-----------------------------|
| County | # Enrolled | # Reports Rec'd | % ILI | # Enrolled | # Reports Rec'd | % Absent | # Enrolled | # Reports Rec'd | % ILI | # Positive | Total Tests Performed |
| ATLANTIC | 4 | 1 | 0.51 | 16 | 0 | 0.00 | 4 | 4 | 1.01 | 11 | 25 |
| BERGEN | 3 | 1 | 0.00 | 25 | 14 | 4.62 | 6 | 0 | 0.00 | 0 | 20 |
| BURLINGTON | 6 | 3 | 0.00 | 115 | 41 | 5.58 | 3 | 3 | 1.93 | 0 | 5 |
| CAMDEN | 7 | 0 | 0.00 | 17 | 0 | 0.00 | 7 | 0 | 0.00 | 0 | 10 |
| CAPE MAY | 6 | 4 | 0.00 | 11 | 10 | 5.57 | 1 | 1 | 0.00 | 0 | 2 |
| CUMBERLAND | 6 | 3 | 0.80 | 18 | 7 | 6.77 | 3 | 3 | 5.66 | 1 | 3 |
| ESSEX | 18 | 4 | 0.66 | 34 | 4 | 1.96 | 11 | 9 | 4.91 | 7 | 90 |
| GLOUCESTER | 5 | 5 | 0.00 | 5 | 0 | 0.00 | 2 | 2 | 0.64 | 1 | 4 |
| HUDSON | 10 | 0 | 0.00 | 89 | 0 | 0.00 | 7 | 0 | 0.00 | 2 | 9 |
| HUNTERDON | 4 | 4 | 0.45 | 8 | 6 | 2.97 | 1 | 1 | 0.00 | 0 | 1 |
| MERCER | 11 | 3 | 0.00 | 26 | 4 | 5.68 | 5 | 3 | 1.88 | 1 | 2 |
| MIDDLESEX | 2 | 0 | 0.00 | 89 | 0 | 0.00 | 5 | 0 | 0.00 | 3 | 10 |
| MONMOUTH | 14 | 0 | 0.00 | 24 | 9 | 5.74 | 5 | 4 | 0.58 | 0 | 16 |
| MORRIS | 2 | 0 | 0.00 | 13 | 11 | 1.98 | 4 | 2 | 0.71 | 1 | 22 |
| OCEAN | 6 | 0 | 0.00 | 39 | 5 | 6.51 | 4 | 3 | 4.31 | 2 | 6 |
| PASSAIC | 9 | 4 | 0.98 | 23 | 4 | 2.86 | 6 | 1 | 1.33 | 0 | 0 |
| SALEM | 4 | 1 | 0.00 | 5 | 0 | 0.00 | 1 | 1 | 0.00 | 0 | 0 |
| SOMERSET | 5 | 3 | 2.74 | 63 | 7 | 4.27 | 2 | 0 | 0.00 | 0 | 0 |
| SUSSEX | 5 | 5 | 0.59 | 22 | 19 | 4.23 | 2 | 2 | 2.11 | 0 | 2 |
| UNION | 3 | 1 | 0.30 | 130 | 21 | 5.34 | 5 | 5 | 2.85 | 2 | 13 |
| UNKNOWN | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0 |
| WARREN | 7 | 2 | 0.00 | 21 | 12 | 4.07 | 2 | 2 | 13.33 | 0 | 0 |
| NW Region | 23 | 11 | 0.62 | 79 | 46 | 3.55 | 14 | 7 | 4.15 | 1 | 24 |
| NE Region | 31 | 5 | 0.43 | 148 | 18 | 3.99 | 24 | 9 | 4.91 | 9 | 119 |
| CW Region | 20 | 10 | 1.07 | 97 | 17 | 4.04 | 8 | 4 | 1.52 | 1 | 3 |
| CE Region | 25 | 1 | 0.30 | 282 | 35 | 5.54 | 19 | 12 | 2.51 | 7 | 45 |
| South Region | 38 | 17 | 0.27 | 187 | 58 | 5.70 | 21 | 14 | 1.80 | 13 | 49 |
| State Total | 137 | 44 | 0.52 | 793 | 174 | 4.73 | 86 | 46 | 2.95 | 31 | 240 |