

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending May 3, 2008 (MMWR Week 18)

Influenza Activity Level: **LOCAL**

NOTE: No reporting parameters are above state baseline. Additionally, two counties had 2 of 3 parameters above baseline. Only one county had culture confirmed influenza in the last 3 weeks while 10 other counties reported rapid positive results.

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

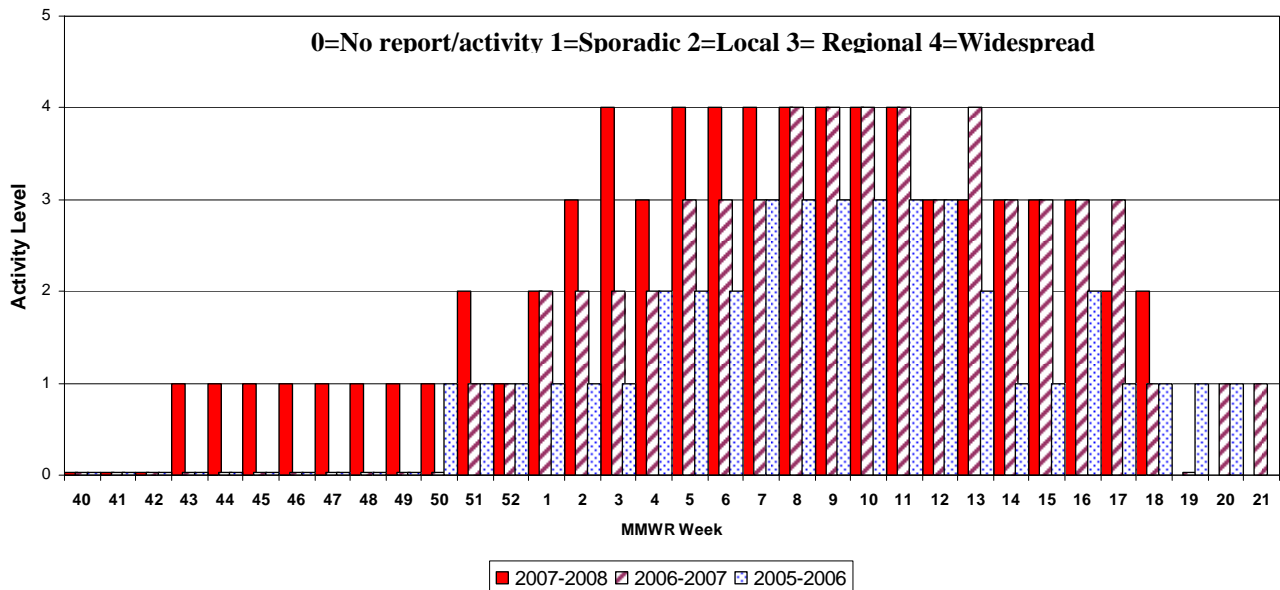
Regional – At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties

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

Baseline is calculated by taking the average of statewide percentages of ILI for a 4 year (2004, 2005, 2006, 2007) period during months when influenza is less likely to be circulating (May-August). Weeks in which less than 4 counties reported were not included in the calculation.

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



Regional Data

LOCAL – NE

SPORADIC – NW, CE, CW 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



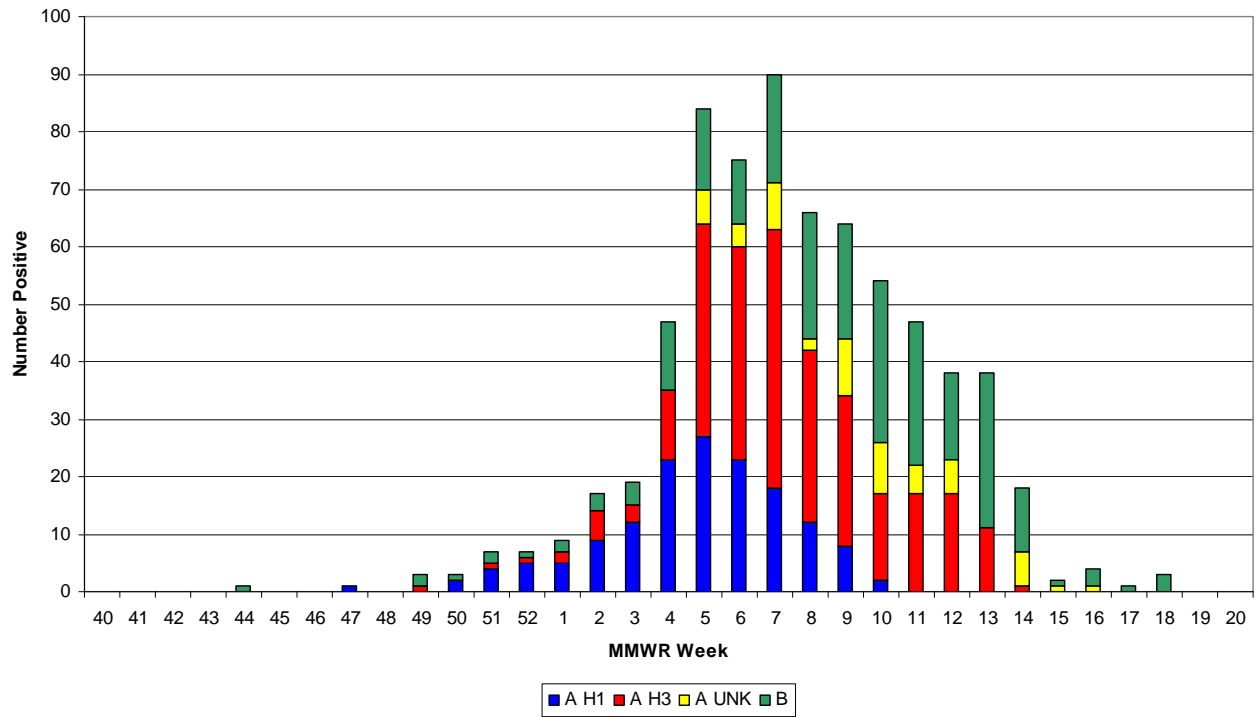
Laboratory Surveillance

As of week 18, 697 samples have been found to be positive by viral culture (151- AH1, 259- AH3, 58- A unknown type and 229-B). Rapid and culture results by county are displayed below.

| County | Week 40 to Week 18 | | | | | | | Weeks 16, 17,18 | | | | | | |
|-------------------|--------------------|-----|-----|----------|------|-------|-----|-----------------|----|-----|----------|------|-------|---|
| | 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 | 41 | 10 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Bergen County | 81 | 30 | 0 | 5 | 4 | 57 | 37 | 1 | 2 | 0 | 0 | 0 | 1 | 3 |
| Burlington County | 194 | 42 | 0 | 0 | 1 | 0 | 2 | 2 | 3 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cumberland County | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Essex County | 229 | 68 | 50 | 9 | 23 | 0 | 18 | 4 | 3 | 0 | 0 | 0 | 0 | 0 |
| Gloucester County | 0 | 0 | 0 | 21 | 38 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hudson County | 25 | 17 | 0 | 12 | 18 | 0 | 18 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| Hunterdon County | 0 | 0 | 0 | 8 | 10 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mercer County | 216 | 101 | 0 | 8 | 9 | 0 | 11 | 3 | 6 | 0 | 0 | 0 | 0 | 0 |
| Middlesex County | 44 | 15 | 0 | 11 | 11 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Monmouth County | 174 | 35 | 162 | 9 | 8 | 0 | 3 | 6 | 5 | 2 | 0 | 0 | 0 | 0 |
| Morris County | 0 | 0 | 0 | 19 | 42 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ocean County | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Passaic County | 95 | 46 | 0 | 12 | 6 | 0 | 11 | 3 | 3 | 0 | 0 | 0 | 0 | 0 |
| Salem County | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Somerset County | 7 | 2 | 17 | 12 | 16 | 0 | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Sussex County | 48 | 14 | 2 | 0 | 3 | 0 | 3 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| Union County | 22 | 12 | 0 | 12 | 21 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Warren County | 67 | 40 | 0 | 0 | 11 | 0 | 7 | 1 | 4 | 0 | 0 | 0 | 0 | 0 |
| Unknown | 0 | 0 | 0 | 12 | 32 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| State Total | 1250 | 433 | 231 | 151 | 259 | 58 | 229 | 20 | 31 | 5 | 0 | 0 | 1 | 7 |

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

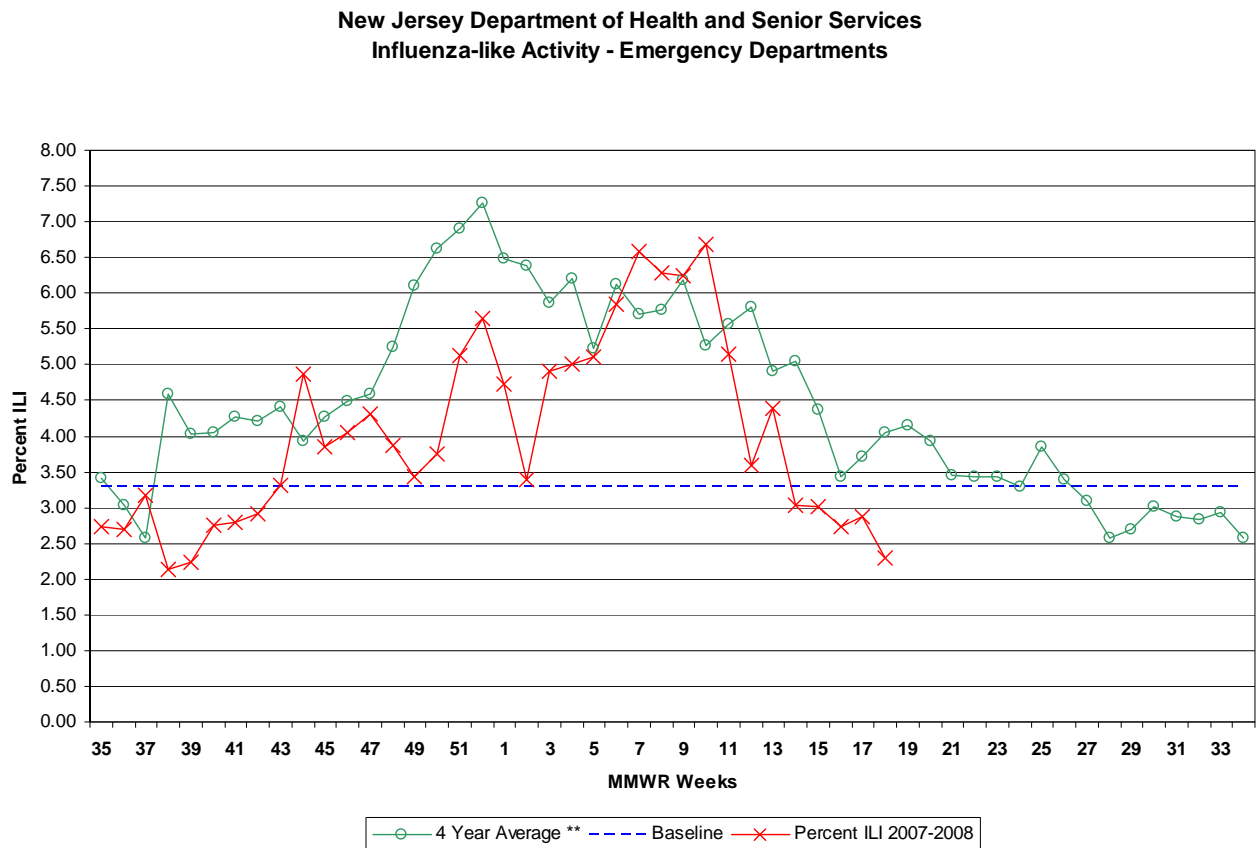
**New Jersey Department of Health and Senior Services
Influenza Laboratory Report
Viral Culture Positive Specimens by MMWR Week**



Influenza-like Illness (ILI) Surveillance*

Emergency Departments

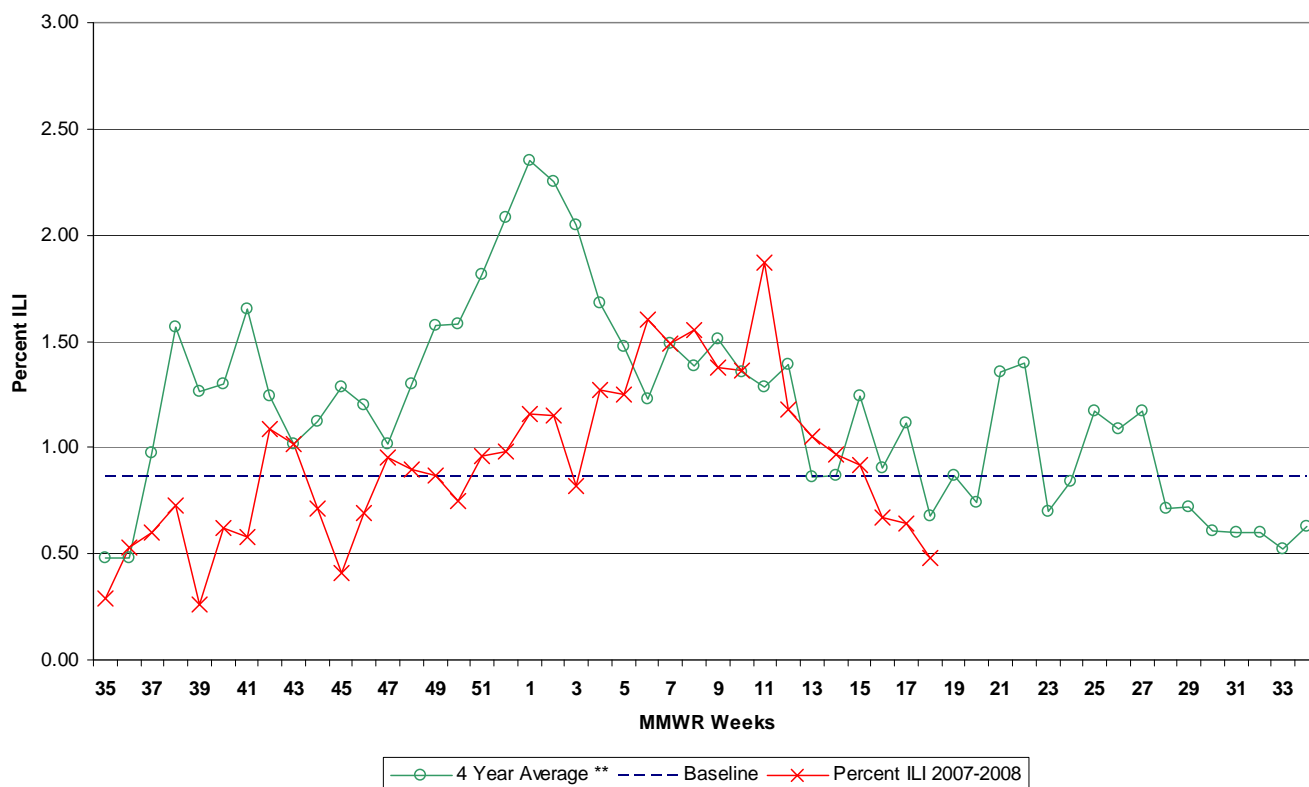
During week 18, 2.30% ILI was reported statewide from emergency departments. This is a decrease over the previous week (2.87%). The percent ILI for each county ranged from 0.00 to 7.06%. The percent ILI for this same week last year was 3.91% in emergency departments. No public health regions were above state baseline (3.30%).



Long-term Care Facilities

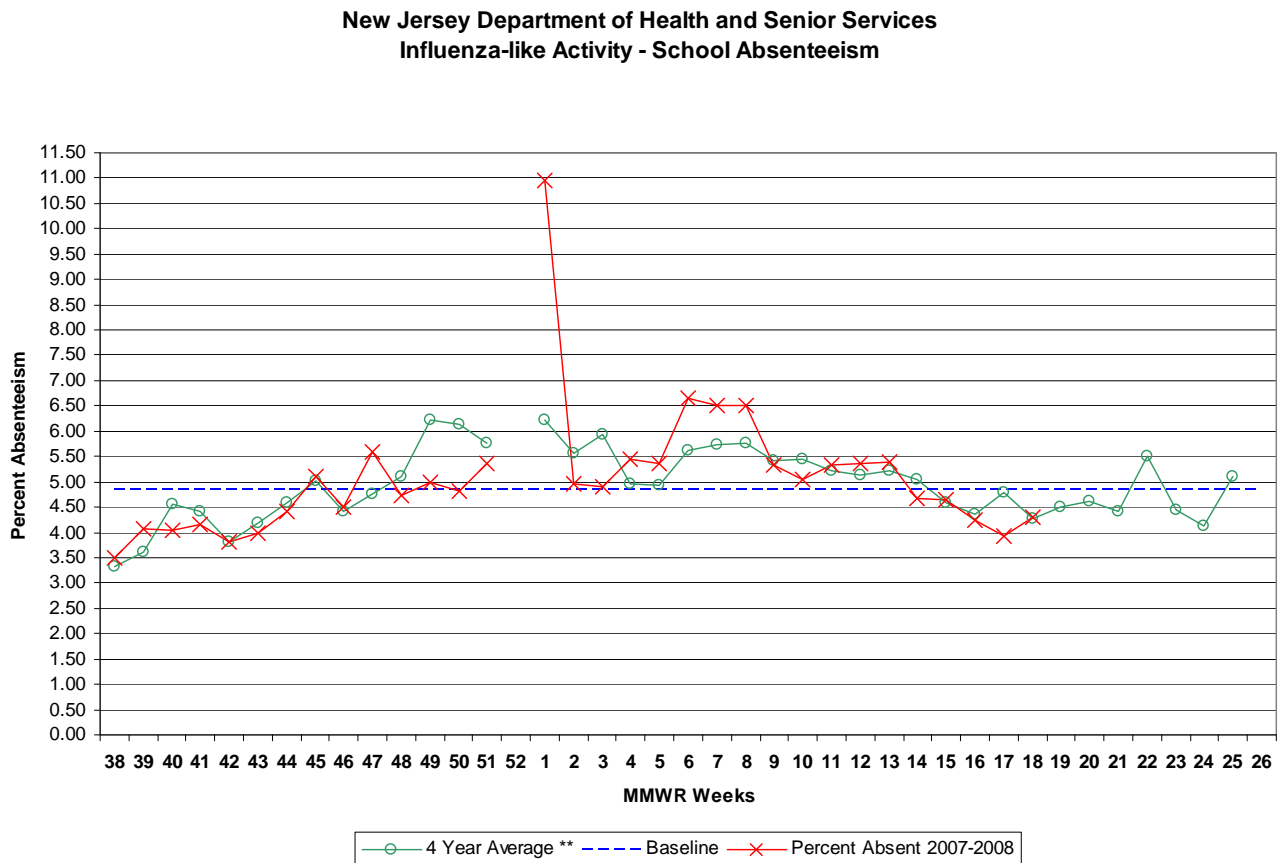
During week 18, 0.48% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (0.64%). The percent ILI for each county ranged from 0.00% to 5.26%. The percent ILI for this same week last year was 0.64% in long-term care facilities. The percent ILI for the northeast (1.53%) public health region was above state baseline (0.86%). No new reports of respiratory outbreaks in long term care facilities were received in week 18.

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



School Absenteeism

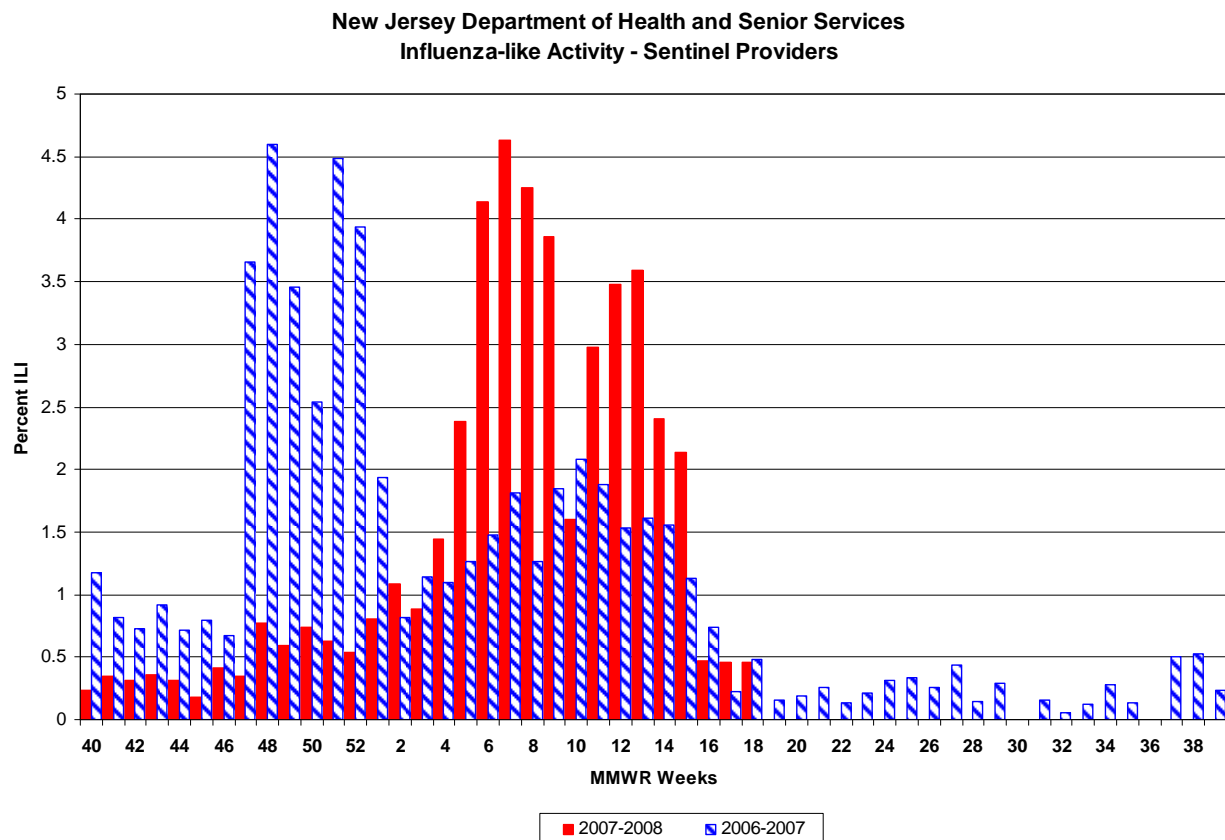
During week 18, schools reported 4.30% absenteeism. This is an increase over the previous week (3.93%). The percent ILI for each county ranged from 2.03 – 6.41%. The percent absent for this same week last year was 4.63%. The percent ILI for the northeast (5.54%) public health region was above state baseline (4.85%).



Sentinel Provider Surveillance

During week 18, 0.46% of sentinel provider patient visits were due to ILI. These data reflect reports from six (15%) of the enrolled sentinel providers.

During week 17, 0.46% of sentinel provider patient visits were due to ILI. These data reflect reports from ten (25%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

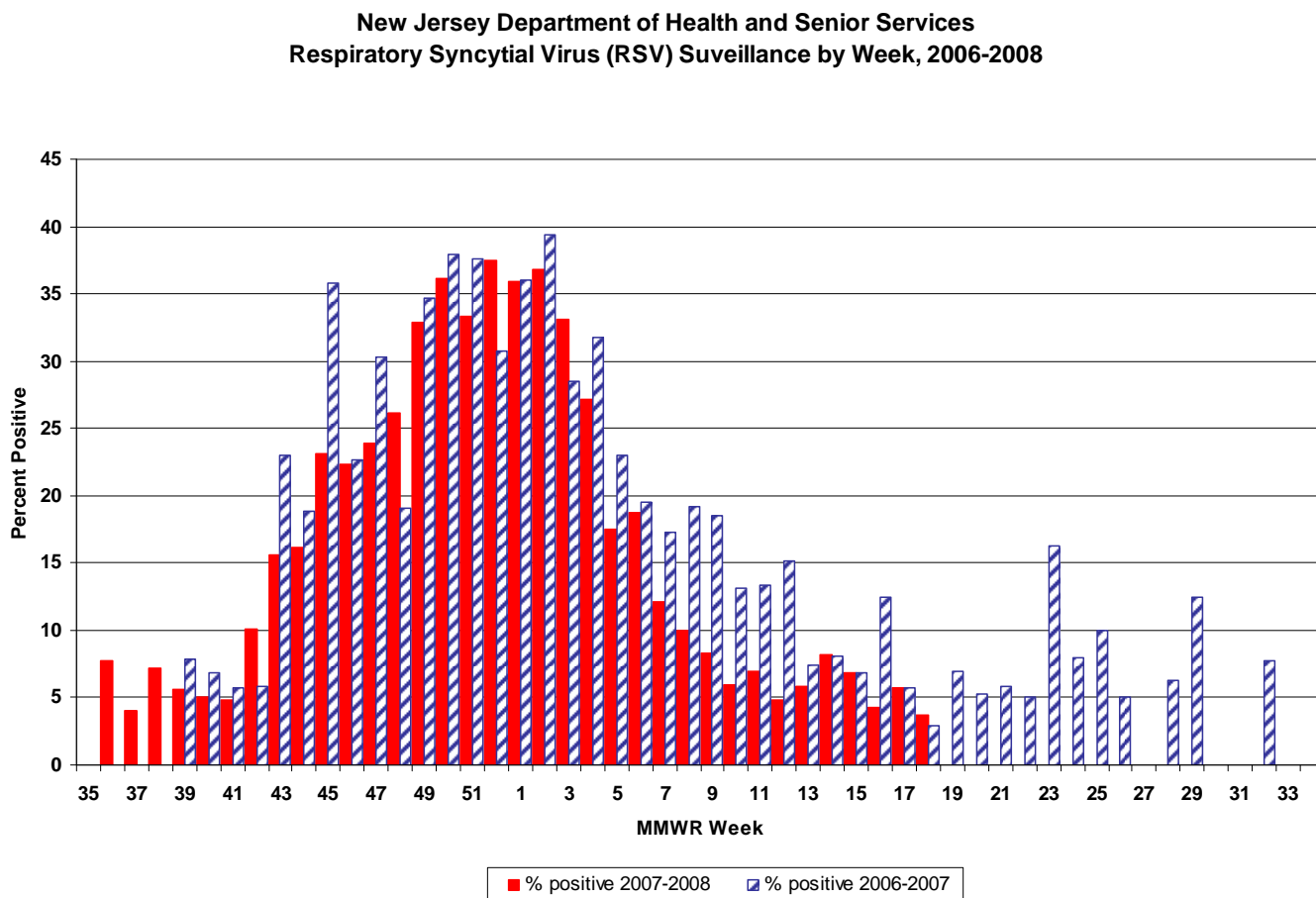
To date, NJDHSS has received 50 reports of pediatric illness. A total of 24 cases have met the case definition. Of these, one death was reported in week 9.

122 City Mortality Report

During week 17, 4.19% of all deaths reported by the vital statistics offices in 6 New Jersey cities (i.e., Camden, Elizabeth, Newark, Paterson, Jersey City, Trenton) were due to pneumonia or influenza. This is a decrease over the previous week (7.19%). The percentage of death due to pneumonia or influenza for this same week last year was 4.92%.

RSV Reports

During week 18, 3.68% of all RSV samples tested were positive. This was a decrease over the previous week 5.70%. The percent of samples positive for RSV for this same week last year was 2.90%.



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/>

* Baseline is calculated by taking the average of statewide percentages of ILI for a 4 year (2004, 2005, 2006, 2007) period during months when influenza is less likely to be circulating (May-August). Weeks in which less than 4 counties reported were not included in the calculation.

**Four year average is an average of the 2003-2004, 2004-2005, 2005-2006, 2006-2007 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 | 6 | 2 | 0.80 | 17 | 14 | 6.41 | 4 | 4 | 1.39 | 0 | 8 |
| BERGEN | 3 | 0 | 0.00 | 16 | 4 | 3.49 | 6 | 0 | 0.00 | 0 | 0 |
| BURLINGTON | 6 | 4 | 0.00 | 104 | 53 | 3.79 | 3 | 3 | 0.84 | 0 | 11 |
| CAMDEN | 7 | 2 | 0.27 | 17 | 2 | 2.66 | 7 | 6 | 0.33 | 0 | 10 |
| CAPE MAY | 5 | 2 | 0.00 | 11 | 7 | 4.47 | 1 | 1 | 5.04 | 1 | 5 |
| CUMBERLAND | 4 | 2 | 1.11 | 18 | 8 | 5.33 | 3 | 3 | 4.65 | 0 | 2 |
| ESSEX | 14 | 1 | 5.26 | 34 | 3 | 3.31 | 11 | 4 | 1.92 | 0 | 11 |
| GLOUCESTER | 2 | 1 | 0.00 | 5 | 1 | 2.35 | 2 | 2 | 1.28 | 0 | 0 |
| HUDSON | 10 | 2 | 1.04 | 88 | 38 | 5.73 | 7 | 2 | 2.60 | 1 | 6 |
| HUNTERDON | 4 | 4 | 0.23 | 8 | 8 | 2.30 | 1 | 1 | 1.03 | 1 | 5 |
| MERCER | 11 | 3 | 0.00 | 26 | 15 | 3.46 | 5 | 3 | 2.82 | 0 | 20 |
| MIDDLESEX | 2 | 0 | 0.00 | 56 | 15 | 4.41 | 5 | 2 | 4.49 | 0 | 6 |
| MONMOUTH | 14 | 2 | 0.00 | 24 | 13 | 5.79 | 5 | 4 | 1.50 | 0 | 4 |
| MORRIS | 11 | 0 | 0.00 | 14 | 13 | 2.03 | 4 | 2 | 0.00 | 2 | 29 |
| OCEAN | 6 | 1 | 0.00 | 27 | 8 | 5.15 | 4 | 4 | 3.11 | 0 | 0 |
| PASSAIC | 8 | 3 | 0.75 | 23 | 2 | 2.86 | 6 | 1 | 1.12 | 0 | 0 |
| SALEM | 4 | 3 | 0.00 | 5 | 0 | 0.00 | 1 | 1 | 0.00 | 0 | 0 |
| SOMERSET | 5 | 2 | 0.83 | 63 | 20 | 2.60 | 2 | 1 | 7.06 | 0 | 1 |
| SUSSEX | 5 | 4 | 0.79 | 24 | 20 | 4.20 | 2 | 2 | 3.74 | 0 | 1 |
| UNION | 4 | 0 | 0.00 | 120 | 25 | 4.10 | 5 | 5 | 4.23 | 0 | 16 |
| UNKNOWN | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0 |
| WARREN | 7 | 2 | 0.00 | 21 | 14 | 3.71 | 2 | 0 | 0.00 | 0 | 1 |
| NW Region | 31 | 9 | 0.73 | 82 | 49 | 3.49 | 14 | 5 | 1.03 | 2 | 31 |
| NE Region | 27 | 3 | 1.53 | 138 | 45 | 5.54 | 24 | 6 | 2.09 | 1 | 17 |
| CW Region | 20 | 9 | 0.31 | 97 | 43 | 2.90 | 8 | 5 | 3.15 | 1 | 26 |
| CE Region | 26 | 3 | 0.00 | 227 | 61 | 4.74 | 19 | 15 | 3.24 | 0 | 26 |
| South Region | 34 | 16 | 0.35 | 177 | 85 | 4.43 | 21 | 20 | 1.54 | 1 | 36 |
| State Total | 138 | 40 | 0.48 | 721 | 283 | 4.30 | 86 | 51 | 2.30 | 5 | 136 |