

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending March 10, 2007 (MMWR Week 10)

Influenza activity level: WIDESPREAD

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

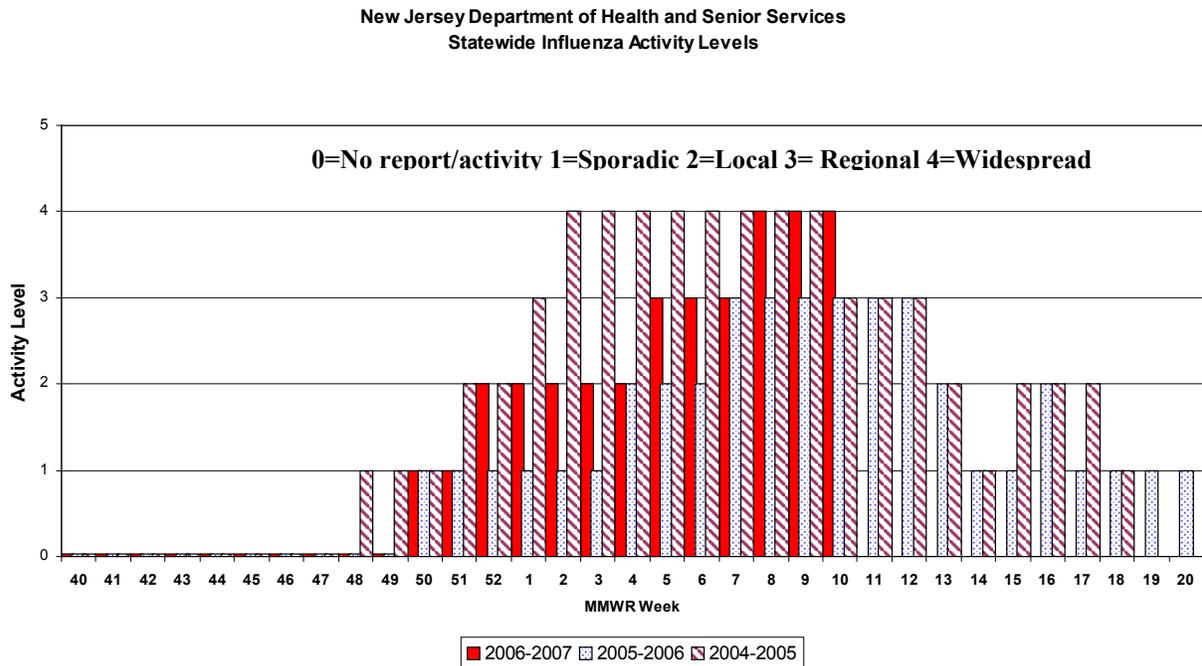
Local – At least 2 or 3 parameters above state baseline in a single county **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county

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 3 year (2004, 2005, 2006) 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.



Regional Data

REGIONAL ACTIVITY – NE, CE, and South **LOCAL ACTIVITY – NW and CW**

NOTE: More the half of the counties reporting in the NE, CE and South public health regions were above state baseline and more than half the counties had laboratories confirmed influenza by viral isolation in the previous three weeks. Only one county in the NW public health region was above state baseline and only one county had laboratories confirmed influenza by viral isolation in the previous three weeks. In the CW public health region only one county reported above state baseline but more than half the counties had laboratories confirmed influenza by viral isolation in the previous three weeks.

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

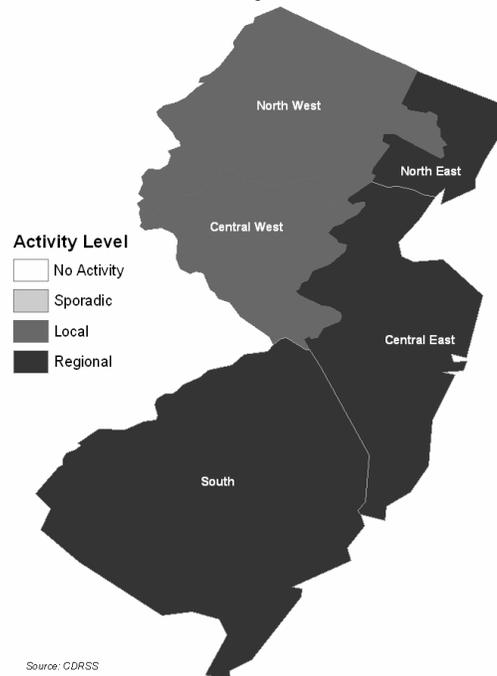
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

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

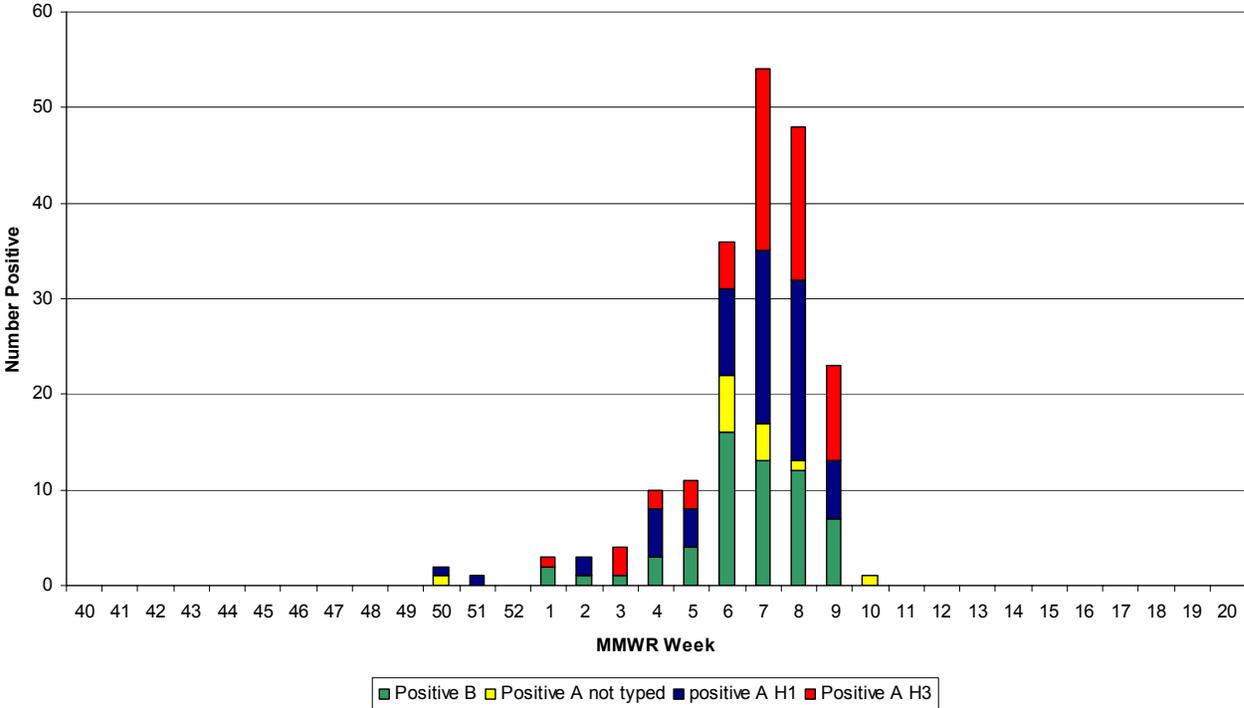
To date, 196 influenza specimens were found to be positive by viral culture. The below chart describes the number and type of influenza by MMWR week and county.

| Influenza Type | Number positive | County Data | | |
|-------------------------|-----------------|----------------|------------|-----------|
| | | County | # positive | MMWR Week |
| Influenza A – Not typed | 13 | Camden | 1 | 50 |
| | | Bergen | 3 | 6 |
| | | Passaic | 2 | 6 |
| | | Sussex | 1 | 6 |
| | | Burlington | 2 | 7 |
| | | Hudson | 1 | 7 |
| | | Union | 1 | 7 |
| | | Bergen | 1 | 8 |
| | | Bergen | 1 | 10 |
| | | Influenza A H1 | 65 | Camden |
| Bergen | 1 | | | 51 |
| Morris | 1 | | | 2 |
| Union | 1 | | | 2 |
| Camden | 1 | | | 4 |
| Essex | 2 | | | 4 |
| Middlesex | 2 | | | 4 |
| Mercer | 1 | | | 5 |
| Monmouth | 1 | | | 5 |
| Cape May | 1 | | | 5 |
| Camden | 1 | | | 5 |
| Monmouth | 5 | | | 6 |
| Union | 2 | | | 6 |
| Camden | 1 | | | 6 |
| Middlesex | 1 | | | 6 |
| Essex | 3 | | | 7 |
| Middlesex | 4 | | | 7 |
| Monmouth | 2 | | | 7 |
| Morris | 1 | | | 7 |
| Somerset | 3 | | | 7 |
| Union | 4 | | | 7 |
| Warren | 1 | | | 7 |
| Essex | 2 | | | 8 |
| Middlesex | 2 | | | 8 |
| Mercer | 1 | | | 8 |
| Monmouth | 5 | | | 8 |
| Morris | 1 | | | 8 |
| Somerset | 3 | | | 8 |
| Union | 3 | | | 8 |
| Warren | 1 | | | 8 |
| Unknown | 1 | | | 8 |
| Cumberland | 1 | | | 9 |
| Mercer | 2 | 9 | | |
| Middlesex | 2 | 9 | | |
| Warren | 1 | 9 | | |

| Influenza Type | Number positive | County Data | | |
|----------------|-----------------|-------------|------------|-----------|
| | | County | # positive | MMWR Week |
| Influenza A H3 | 59 | Middlesex | 1 | 1 |
| | | Essex | 1 | 3 |
| | | Hunterdon | 1 | 3 |
| | | Monmouth | 1 | 3 |
| | | Monmouth | 1 | 4 |
| | | Passaic | 1 | 4 |
| | | Mercer | 1 | 5 |
| | | Sussex | 1 | 5 |
| | | Passaic | 1 | 5 |
| | | Middlesex | 1 | 6 |
| | | Monmouth | 1 | 6 |
| | | Mercer | 1 | 6 |
| | | Passaic | 2 | 6 |
| | | Hudson | 1 | 7 |
| | | Mercer | 4 | 7 |
| | | Middlesex | 6 | 7 |
| | | Monmouth | 1 | 7 |
| | | Morris | 1 | 7 |
| | | Ocean | 1 | 7 |
| | | Passaic | 2 | 7 |
| | | Somerset | 3 | 7 |
| | | Camden | 1 | 8 |
| | | Essex | 1 | 8 |
| | | Mercer | 1 | 8 |
| | | Middlesex | 6 | 8 |
| | | Morris | 1 | 8 |
| | | Passaic | 2 | 8 |
| | | Somerset | 1 | 8 |
| | | Union | 2 | 8 |
| | | Unknown | 1 | 8 |
| | | Bergen | 1 | 9 |
| | | Hudson | 1 | 9 |
| | | Mercer | 1 | 9 |
| Middlesex | 3 | 9 | | |
| Ocean | 2 | 9 | | |
| Somerset | 1 | 9 | | |
| Out of state | 1 | 9 | | |

| Influenza Type | Number positive | County Data | | |
|----------------|-----------------|-------------|------------|-----------|
| | | County | # positive | MMWR Week |
| Influenza B | 59 | Somerset | 1 | 1 |
| | | Warren | 1 | 1 |
| | | Passaic | 1 | 2 |
| | | Somerset | 1 | 3 |
| | | Essex | 1 | 4 |
| | | Monmouth | 1 | 4 |
| | | Morris | 1 | 4 |
| | | Monmouth | 3 | 5 |
| | | Sussex | 1 | 5 |
| | | Bergen | 1 | 6 |
| | | Essex | 1 | 6 |
| | | Gloucester | 1 | 6 |
| | | Mercer | 1 | 6 |
| | | Middlesex | 1 | 6 |
| | | Ocean | 2 | 6 |
| | | Monmouth | 7 | 6 |
| | | Morris | 1 | 6 |
| | | Warren | 1 | 6 |
| | | Burlington | 1 | 7 |
| | | Essex | 1 | 7 |
| | | Hudson | 1 | 7 |
| | | Middlesex | 1 | 7 |
| | | Monmouth | 4 | 7 |
| | | Morris | 1 | 7 |
| | | Somerset | 1 | 7 |
| | | Union | 3 | 7 |
| | | Essex | 1 | 8 |
| | | Mercer | 1 | 8 |
| | | Middlesex | 1 | 8 |
| | | Monmouth | 4 | 8 |
| | | Morris | 2 | 8 |
| Passaic | 2 | 8 | | |
| Unknown | 1 | 8 | | |
| Middlesex | 2 | 9 | | |
| Monmouth | 3 | 9 | | |
| Morris | 1 | 9 | | |
| Passaic | 1 | 9 | | |
| Total | 196 | | | |

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

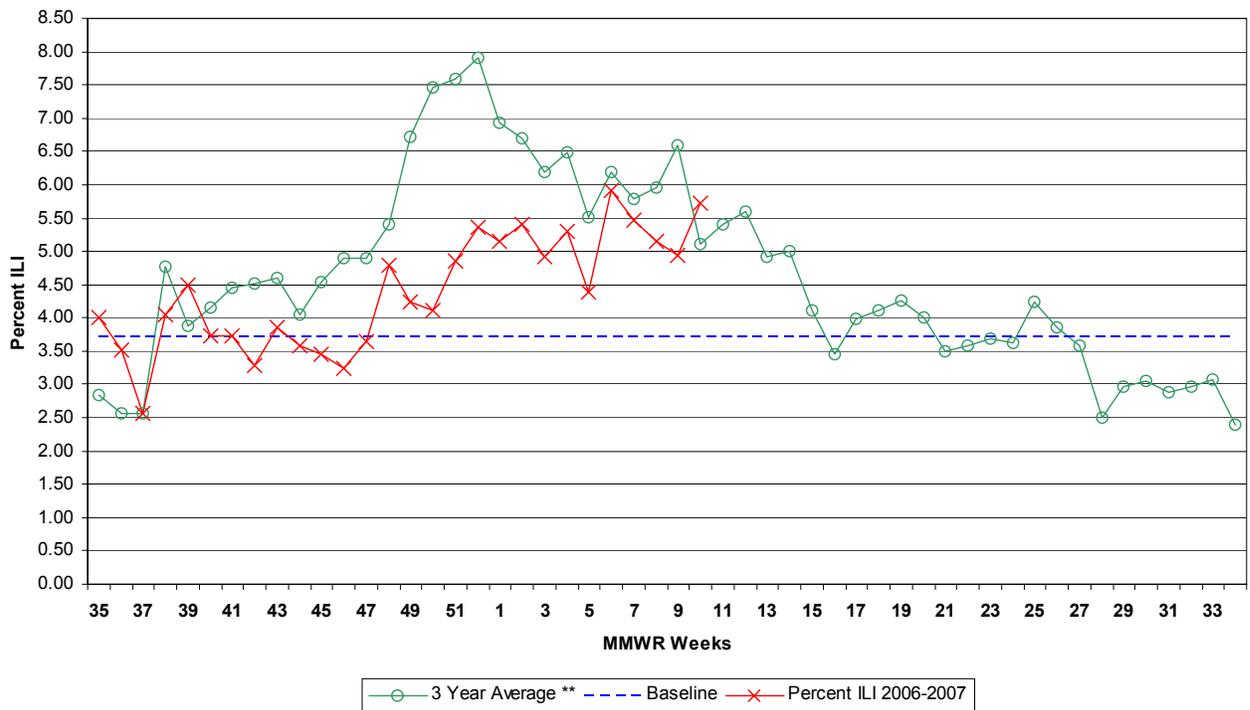


Influenza-like Illness (ILI) Surveillance*

Emergency Departments

During week 10, 5.73% ILI was reported statewide from emergency departments. This is an increase over the previous week (5.01%). The percent ILI for each county ranged from 1.23 to 13.72%. The percent ILI for this same week last year was 4.93% in emergency departments. The percent ILI for the northwest (5.66%), northeast (6.90%), central west (6.15%), central east (6.70%) and south (3.95%) public health regions were above state baseline (3.71%).

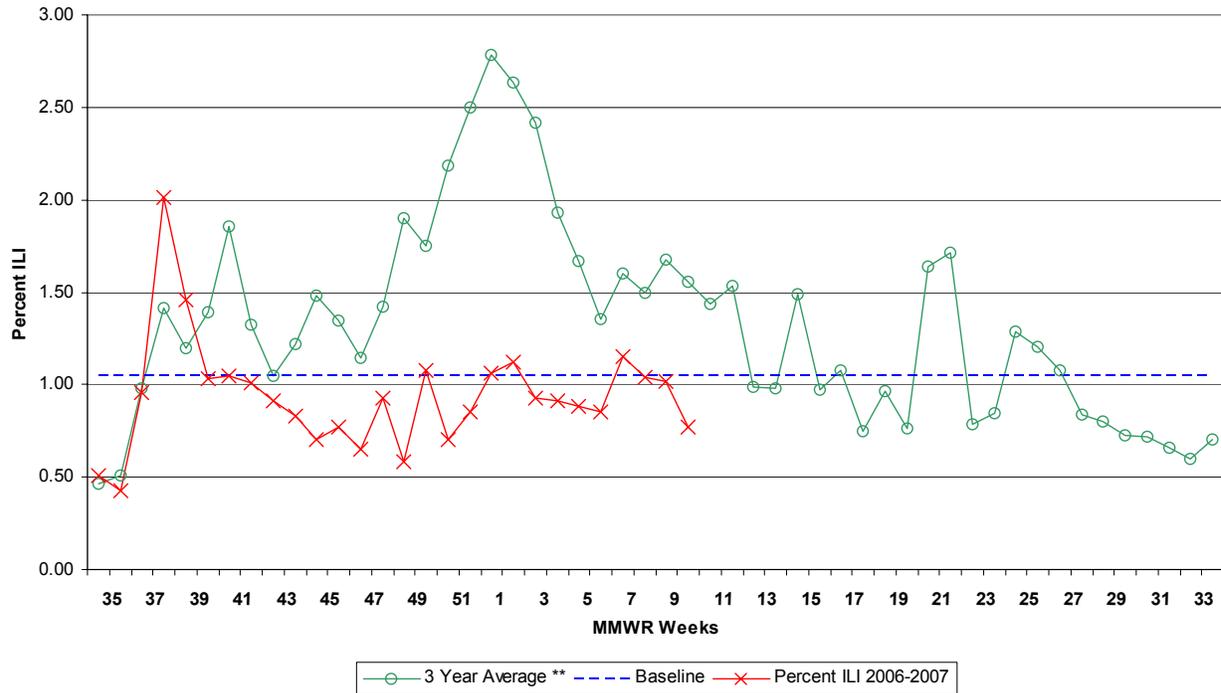
New Jersey Department of Health and Senior Services
Influenza-like Activity - Emergency Departments



Long-term Care Facilities

During week 10, 0.77% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (1.02%). The percent ILI for each county ranged from 0.00% to 2.38%. One report regarding ILI/respiratory outbreaks in communal living facilities was received in week 10. Rapid antigen detection kits were positive for influenza. The percent ILI for this same week last year was 0.94% in long-term care facilities. The percent ILI for the northeast (1.10%) public health region was above state baseline (1.05%).

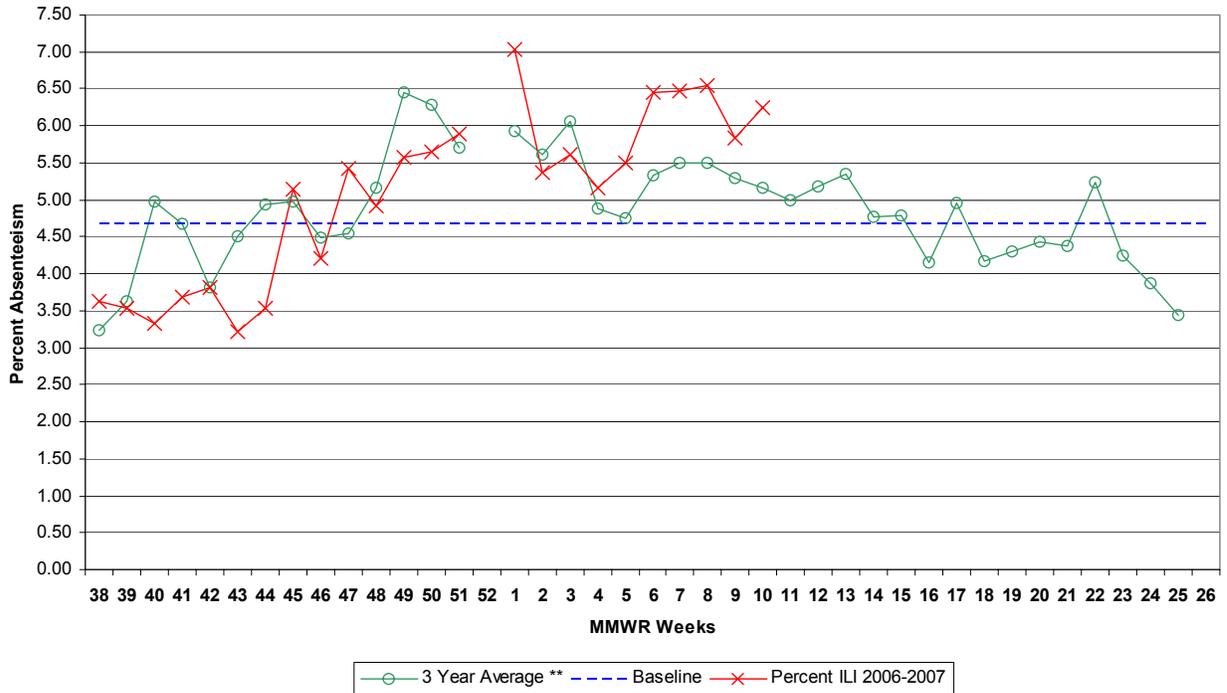
**New Jersey Department of Health and Senior Services
Influenza-like Activity - Long Term Care Facilities**



School Absenteeism

During week 10, schools reported 6.25% absenteeism. This is an increase over the previous week (5.83%). The percent ILI for each county ranged from 3.17 – 7.65%. The percent absent for this same week last year was 5.37%. The percent ILI for the northwest (5.74%), the northeast (6.96%), the central west (4.76%) the central east (6.93%) and the south (6.15%) public health regions were above state baseline (4.68%).

New Jersey Department of Health and Senior Services
Influenza-like Activity - School Absenteeism



Sentinel Provider Surveillance

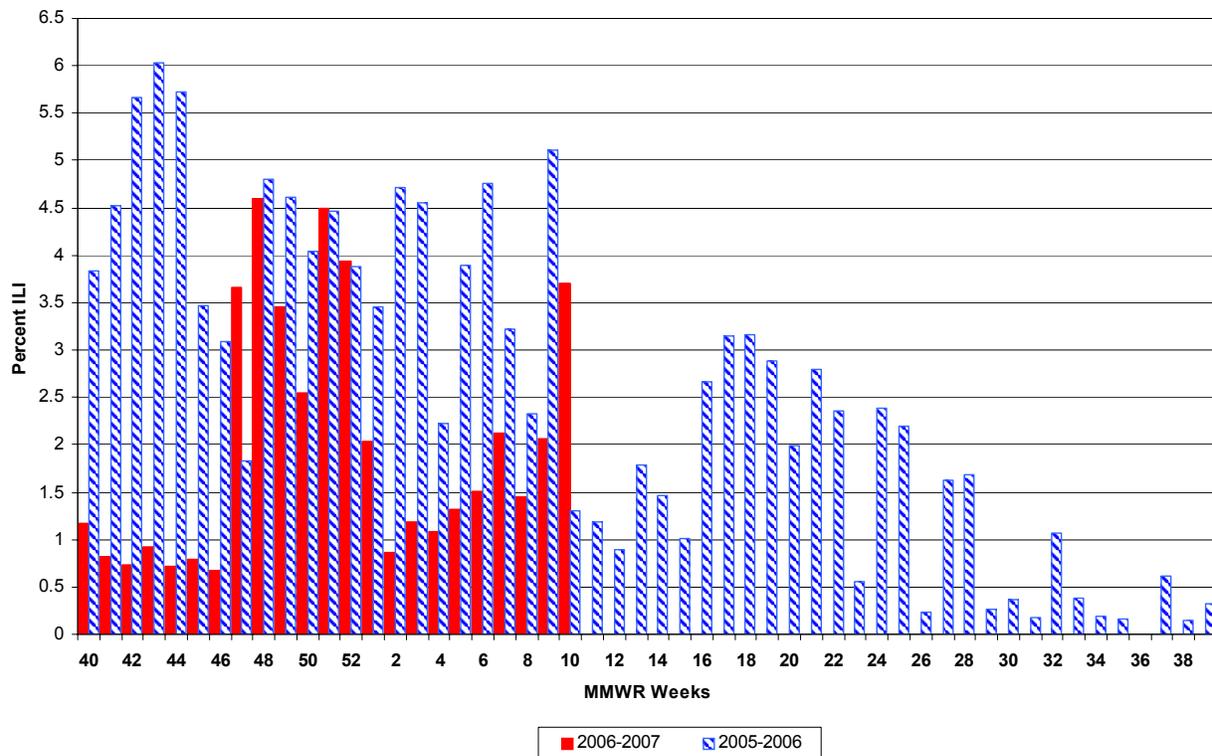
During week 10, 3.71% of sentinel provider patient visits were due to ILI. These data reflect reports from eleven (23%) of the enrolled sentinel providers.

UPDATE

During week 9, 2.06% of sentinel provider patient visits were due to ILI. These data reflect reports from eighteen (38%) of the enrolled sentinel providers.

During week 8, 1.45% of sentinel provider patient visits were due to ILI. These data reflect reports from sixteen (34%) of the enrolled sentinel providers.

**New Jersey Department of Health and Senior Services
Influenza-like Activity - Sentinel Providers**



Pediatric Influenza Surveillance

To date, NJDHSS has received 54 reports of pediatric illness. To date, seven cases have met the case definition for pediatric illness or death associated with influenza.

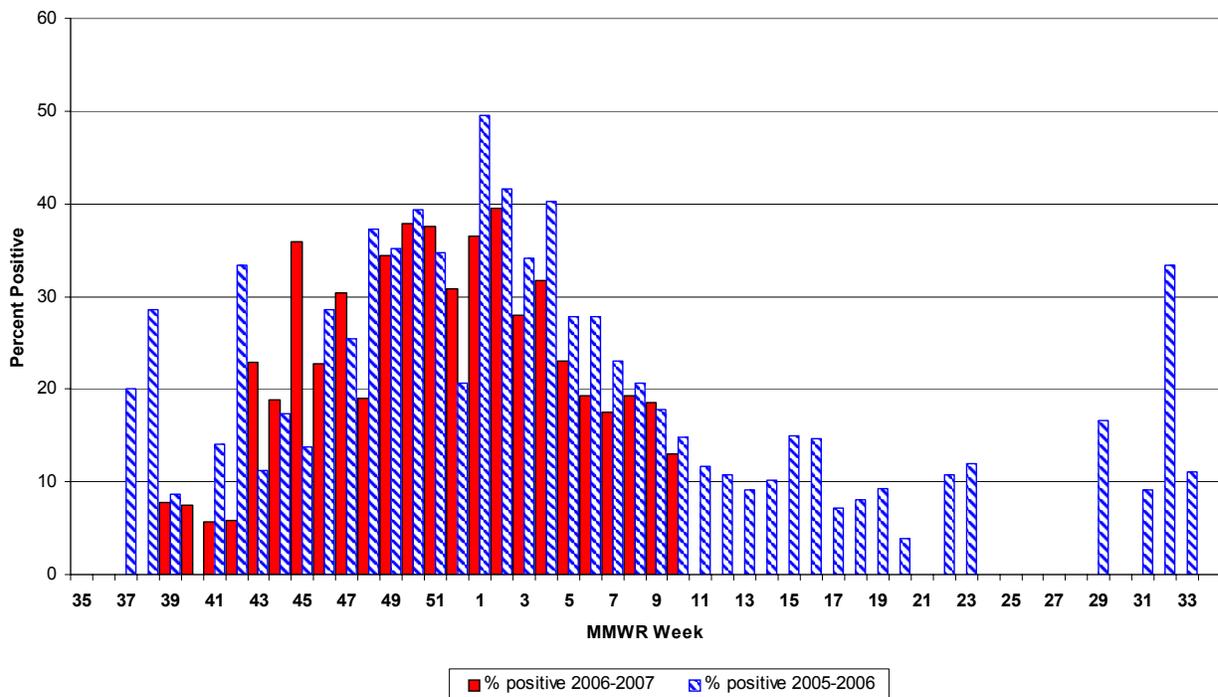
122 City Mortality Report

During week 9, 8.92% of all deaths reported by the vital statistics offices in 6 New Jersey cities (i.e., Camden, Jersey City, Elizabeth, Newark, Paterson, Trenton) were due to pneumonia or influenza. This was an increase over the previous week (6.16%). The percentage of death due to pneumonia or influenza for this same week last year was 6.48%.

RSV Reports

During week 10, 13.08% of all RSV samples tested were positive. This was a decrease over the previous week 18.50%. The percent of samples positive RSV for this same week last year was 14.79%.

**New Jersey Department of Health and Senior Services
Respiratory Syncytial Virus (RSV) Surveillance by Week**



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 3 year (2004, 2005, 2006) 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.

** Three year average is an average of the 2003-2004, 2004-2005, and 2005-2006 influenza seasons.



| County | Long Term Care | | | Schools | | | Hospital Emergency Department | | | RSV Tests | |
|---------------------|----------------|--------------------|-------------|------------|--------------------|-------------|-------------------------------------|--------------------|-------------|------------|-----------------------------|
| | # Enrolled | # Reports Rec'd | % ILI | # Enrolled | # Reports Rec'd | % Absent | # Enrolled | # Reports Rec'd | % ILI | # Positive | Total Tests Performed |
| ATLANTIC | 5 | 2 | 0.81 | 16 | 13 | 6.35 | 4 | 4 | 1.69 | 5 | 20 |
| BERGEN | 3 | 0 | 0.00 | 11 | 1 | 3.17 | 6 | 0 | 0.00 | 0 | 0 |
| BURLINGTON | 6 | 2 | 0.00 | 103 | 56 | 6.00 | 3 | 2 | 3.90 | 4 | 22 |
| CAMDEN | 7 | 4 | 0.00 | 17 | 5 | 6.61 | 7 | 6 | 4.31 | 0 | 0 |
| CAPE MAY | 4 | 1 | 0.00 | 11 | 8 | 6.32 | 1 | 1 | 10.87 | 0 | 7 |
| CUMBERLAND | 4 | 2 | 1.63 | 18 | 5 | 7.18 | 3 | 3 | 5.17 | 1 | 12 |
| ESSEX | 14 | 6 | 0.87 | 31 | 11 | 6.07 | 11 | 9 | 7.04 | 12 | 73 |
| GLOUCESTER | 2 | 2 | 0.00 | 4 | 3 | 4.86 | 2 | 2 | 3.22 | 0 | 4 |
| HUDSON | 10 | 2 | 2.11 | 76 | 45 | 7.25 | 8 | 1 | 5.98 | 2 | 21 |
| HUNTERDON | 4 | 4 | 0.66 | 8 | 8 | 4.98 | 1 | 1 | 1.32 | 2 | 4 |
| MERCER | 10 | 5 | 0.76 | 12 | 10 | 3.69 | 5 | 4 | 2.91 | 4 | 28 |
| MIDDLESEX | 2 | 1 | 0.00 | 20 | 10 | 6.27 | 5 | 2 | 13.38 | 5 | 55 |
| MONMOUTH | 5 | 2 | 1.33 | 24 | 16 | 7.65 | 5 | 2 | 2.55 | 0 | 26 |
| MORRIS | 11 | 3 | 0.53 | 14 | 14 | 3.16 | 4 | 2 | 1.23 | 6 | 29 |
| OCEAN | 6 | 2 | 0.00 | 25 | 19 | 7.60 | 4 | 3 | 5.82 | 0 | 0 |
| PASSAIC | 8 | 3 | 0.79 | 22 | 8 | 4.14 | 6 | 2 | 8.60 | 0 | 0 |
| SALEM | 4 | 2 | 0.98 | 5 | 0 | 0.00 | 1 | 1 | 5.17 | 0 | 0 |
| SOMERSET | 5 | 3 | 0.28 | 53 | 24 | 5.25 | 2 | 2 | 13.72 | 0 | 0 |
| SUSSEX | 5 | 5 | 0.86 | 20 | 20 | 7.13 | 2 | 2 | 3.37 | 1 | 3 |
| UNION | 4 | 2 | 0.22 | 82 | 45 | 6.56 | 5 | 5 | 5.68 | 0 | 17 |
| UNKNOWN | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0 | 0.00 | 0 | 0 |
| WARREN | 7 | 6 | 2.38 | 21 | 19 | 6.72 | 2 | 2 | 12.50 | 0 | 0 |
| NW Region | 31 | 17 | 1.03 | 77 | 61 | 5.74 | 14 | 8 | 5.66 | 7 | 32 |
| NE Region | 27 | 8 | 1.10 | 118 | 57 | 6.96 | 25 | 10 | 6.90 | 14 | 94 |
| CW Region | 19 | 12 | 0.60 | 73 | 42 | 4.76 | 8 | 7 | 6.15 | 6 | 32 |
| CE Region | 17 | 7 | 0.47 | 151 | 90 | 6.93 | 19 | 12 | 6.70 | 5 | 98 |
| South Region | 32 | 15 | 0.51 | 174 | 90 | 6.15 | 21 | 19 | 3.95 | 10 | 65 |
| State Total | 126 | 59 | 0.77 | 593 | 340 | 6.25 | 87 | 56 | 5.73 | 42 | 321 |