

**New Jersey Department of Health and Senior Services**  
**Communicable Disease Service**  
**Influenza Activity Summary**  
**Week Ending February 3, 2007 (MMWR Week 5)**

**Influenza activity level:**    **REGIONAL**

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

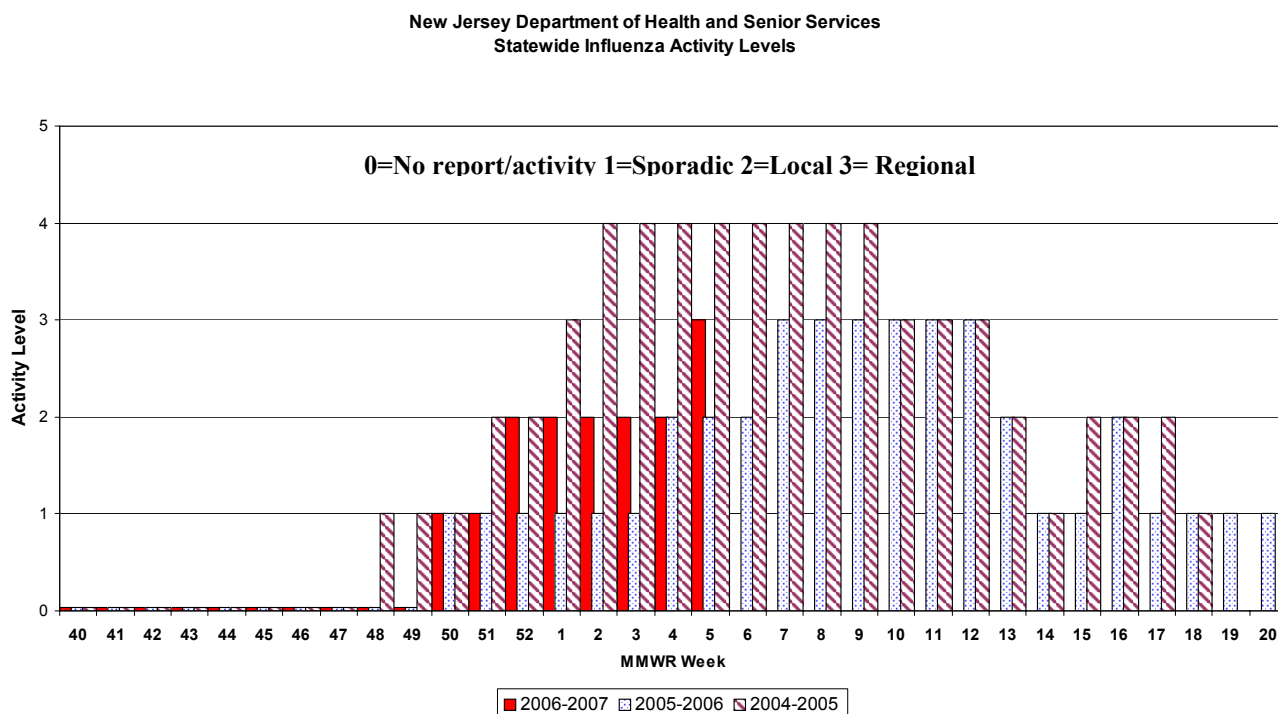
Local – At least 2 of 3 parameters above state baseline in a single county **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county

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

**LOCAL ACTIVITY – CENTRAL EAST REGION  
SPORADIC ACTIVITY NORTHEAST REGION  
NO ACTIVITY IN CW, NW, AND SOUTH PUBLIC HEALTH REGION**

**NOTE:** Three specimens from one county in the NE public health region tested positive for influenza by viral isolation in the past 3 weeks. Two of three parameters for this region were above the state baseline. Therefore, this region is listed as having sporadic activity. Four specimens from two counties in the CE public health region tested positive for influenza by viral isolation in the past 3 weeks. Two of three parameters for this region were above the state baseline. Therefore, this region is listed as having local activity. Two counties in the CW region and one county in the NW region also have positive laboratories by viral isolation in the past 3 weeks, however, 2 of the 3 parameter for these regions are not above baseline.

### 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)

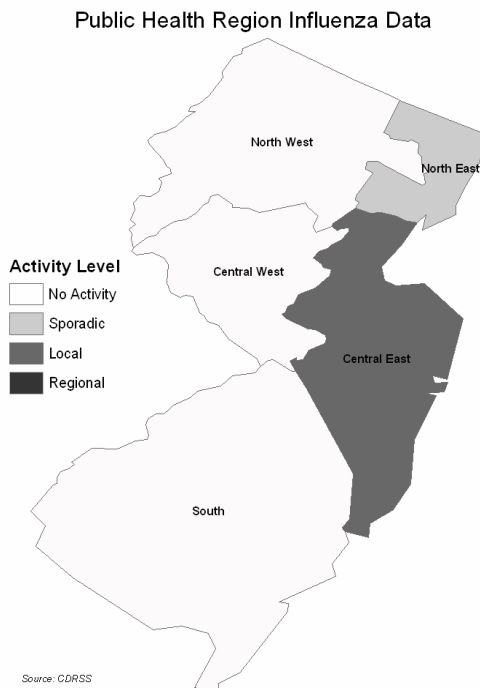
No Activity- At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases in the public health region

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**

To date, 16 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.

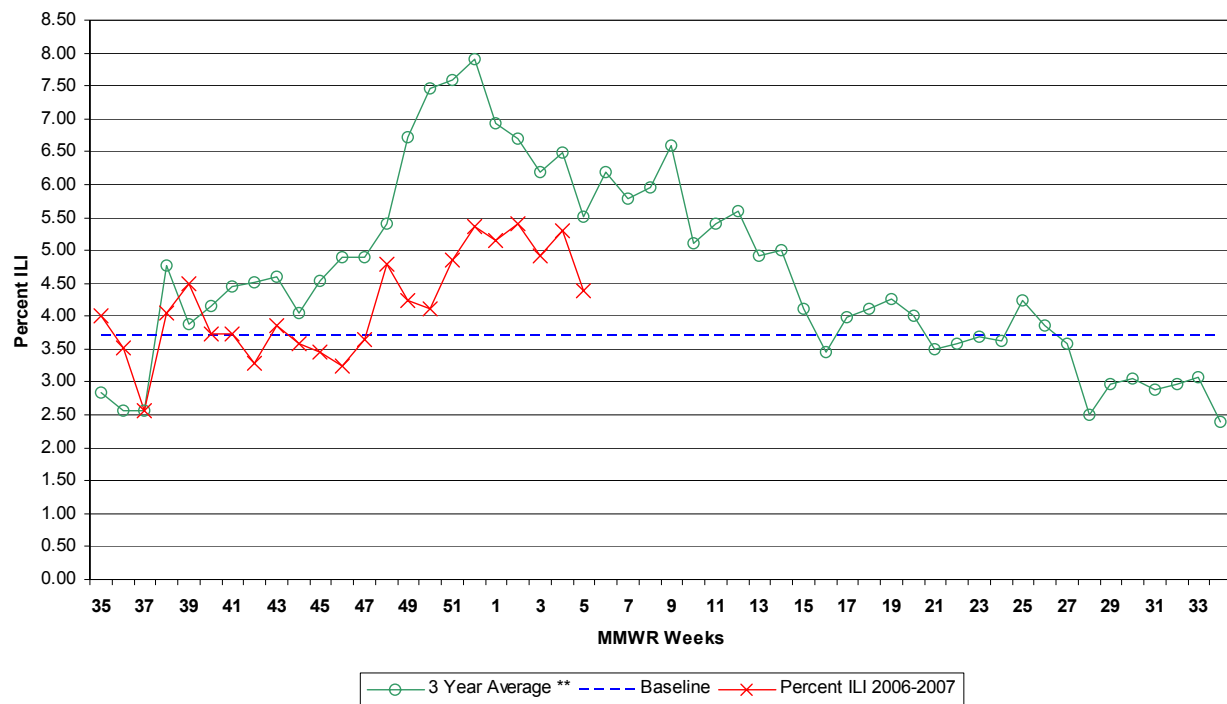
Influenza Type	Number positive	County of Residence (Week of collection)
Influenza A – Not typed	1	Camden (51)
Influenza A H1	6	Bergen (51), Camden(50), Two in Essex (both in week 4), Two in Middlesex (both in week 4)
Influenza A H3	5	Essex(3), Hunterdon(3), Middlesex (1 and 3), Passaic (4)
Influenza B	4	Passaic(2), Somerset (1 and 3), Unknown (4)
<b>Total</b>	<b>16</b>	

## **Influenza-like Illness (ILI) Surveillance\***

### **Emergency Departments**

During week 5, 4.38% ILI was reported statewide from emergency departments. This is a decrease over the previous week (5.30%). The percent ILI for each county ranged from 0.00 to 18.55%. The percent ILI for this same week last year was 5.58% in emergency departments. The percent ILI for the northeast (4.55%), central west (7.89%), and the central east (5.20%) public health regions were above state baseline (3.71%).

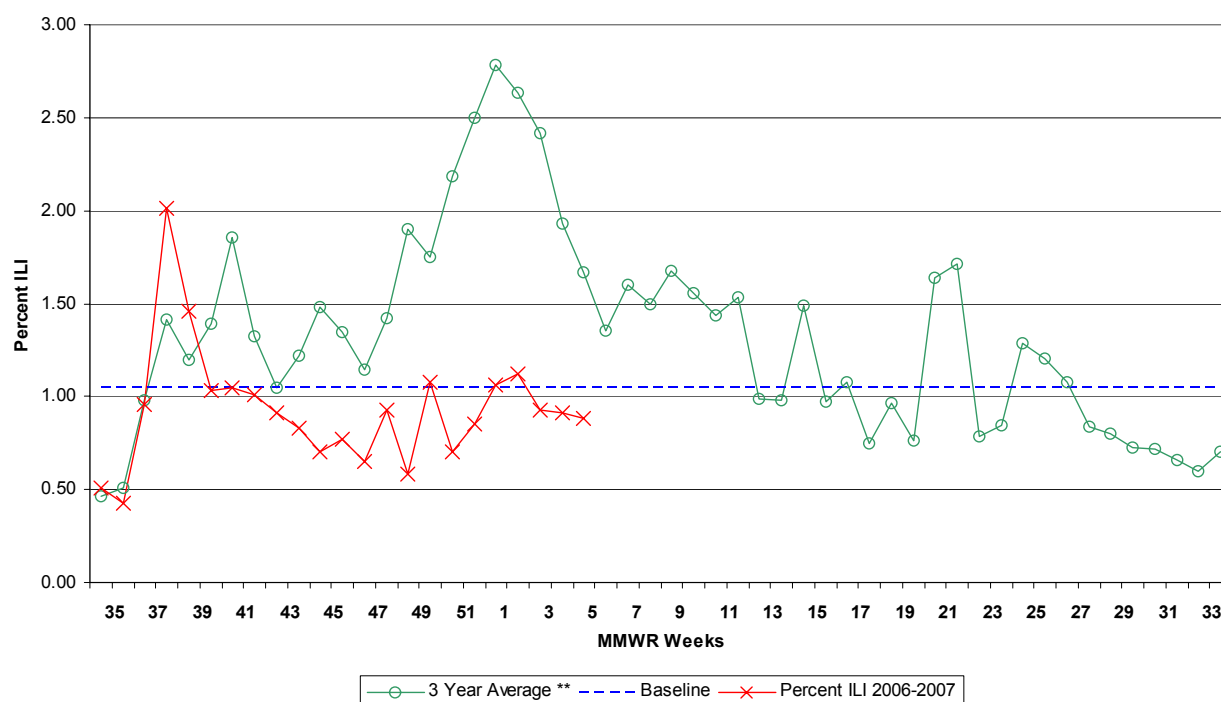
### **New Jersey Department of Health and Senior Services Influenza-like Activity - Emergency Departments**



## Long-term Care Facilities

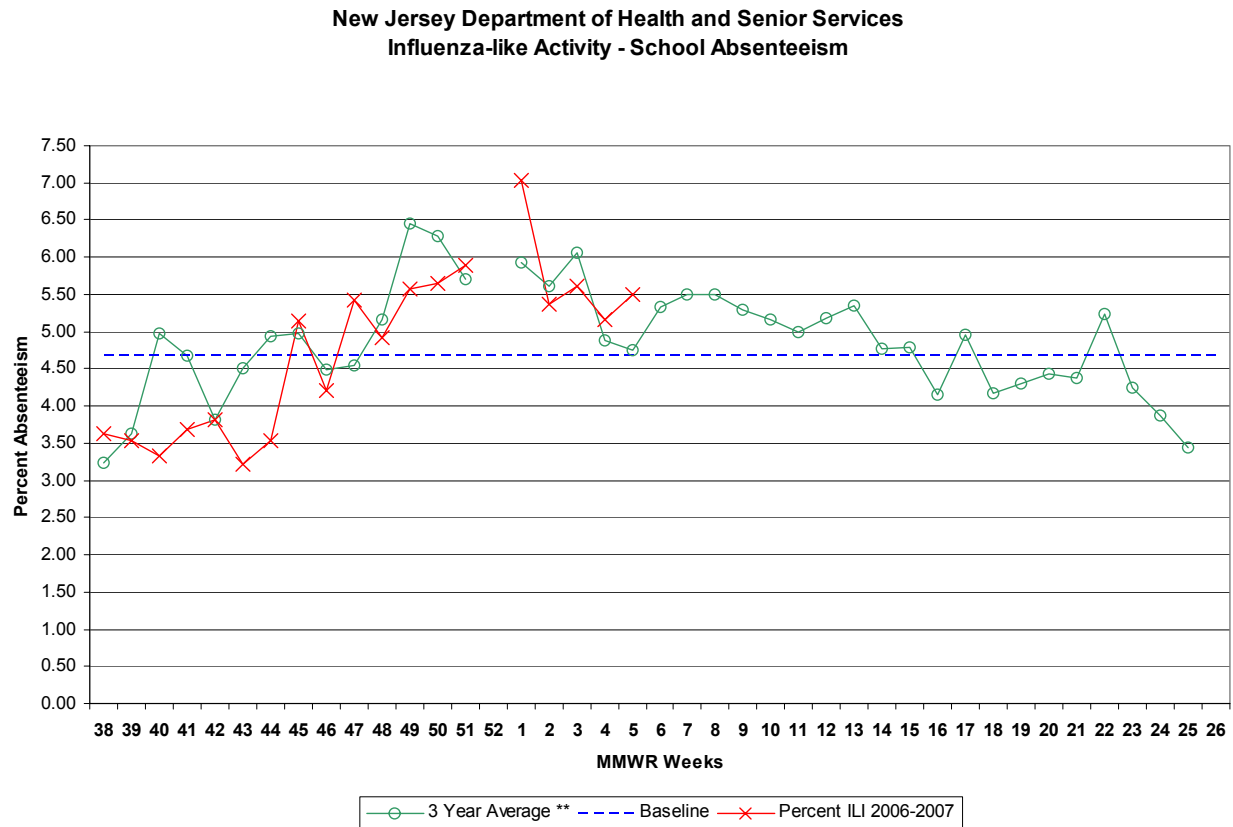
During week 5, 0.88% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (0.91%). The percent ILI for each county ranged from 0.00% to 2.35%. One upper respiratory outbreak was reported from a communal living facility was reported in week 5. To date, no samples for influenza have been collected from this facility. The percent ILI for this same week last year was 1.37% in long-term care facilities. The percent ILI for the northeast (1.20%) and the central east (1.66%) 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 5, schools reported 5.49% absenteeism. This is an increase over the previous week (5.16%). The percent ILI for each county ranged from 2.62- 7.65%. The percent absent for this same week last year was 5.57%. The percent ILI for the northwest (5.57%), the northeast (5.33%), the central east (6.06%) and the south (5.94%) public health regions were above state baseline (4.68%).



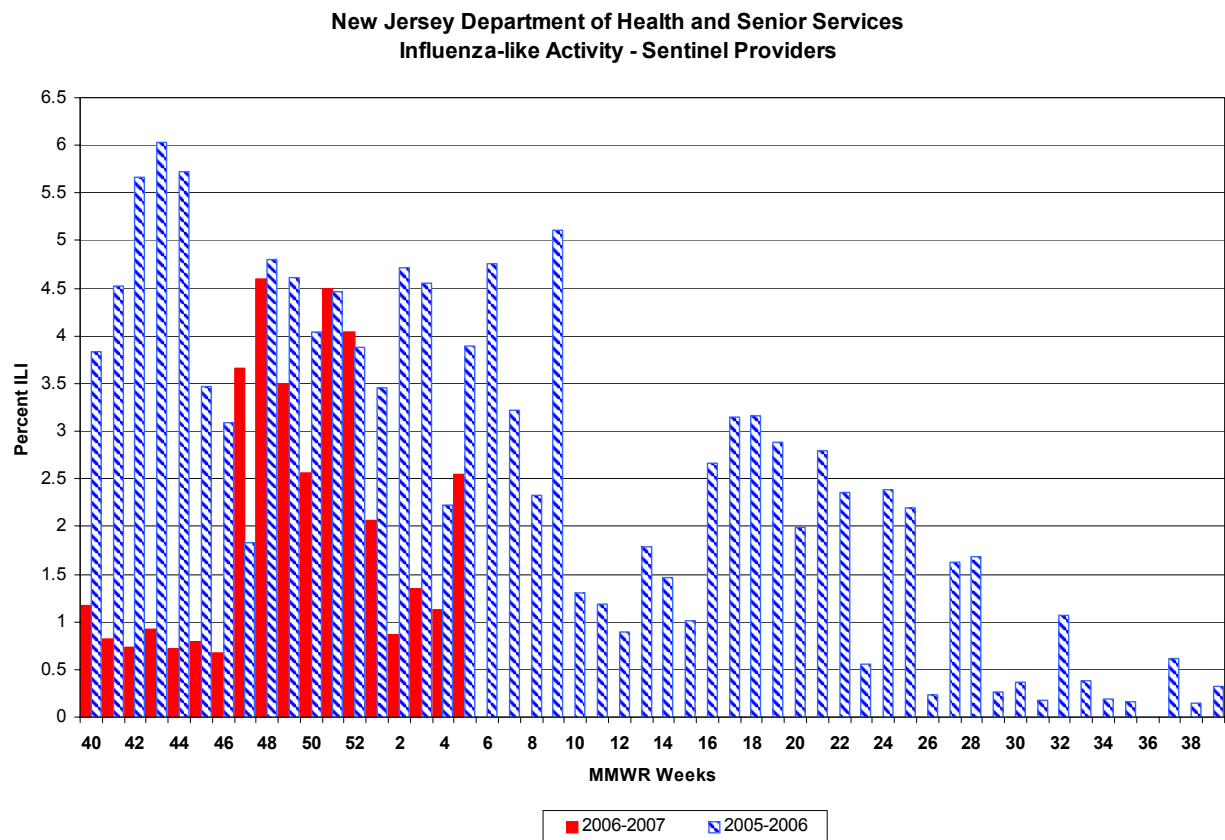
## **Sentinel Provider Surveillance**

During week 5, 2.54% of sentinel provider patient visits were due to ILI. These data reflect reports from five (11) of the enrolled sentinel providers.

### **UPDATE**

During week 4, 1.12% of sentinel provider patient visits were due to ILI. These data reflect reports from twelve (27%) of the enrolled sentinel providers.

During week 3, 1.34% of sentinel provider patient visits were due to ILI. These data reflect reports from fourteen (32%) of the enrolled sentinel providers.



## **Pediatric Influenza Surveillance**

To date, NJDHSS has received 27 reports of pediatric illness. To date, four cases have met the case definition for pediatric illness or death associated with influenza. No new reports meeting the case definition were received during week 4.

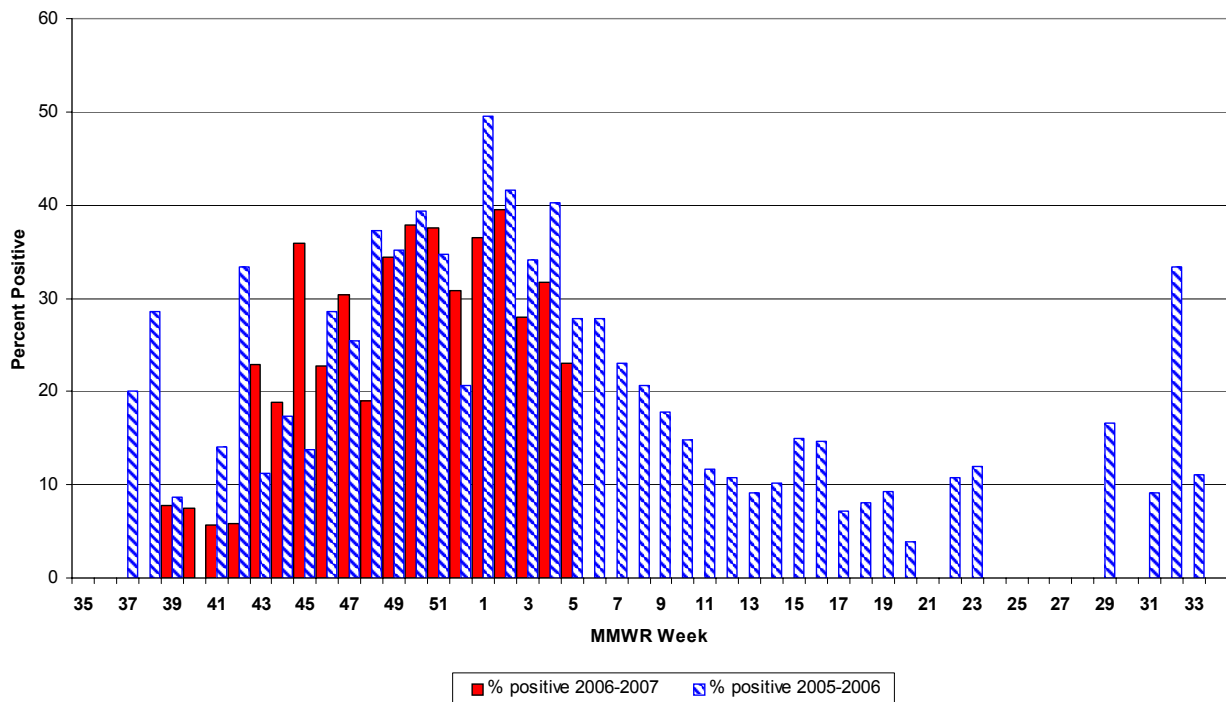
## **122 City Mortality Report**

During week 4, 4.31% of all deaths reported by the vital statistics offices in 4 New Jersey cities (i.e., Camden, Elizabeth, Newark, Trenton) were due to pneumonia or influenza. This was a decrease over the previous week (4.50%). The percentage of death due to pneumonia or influenza for this same week last year was 3.55%.

## **RSV Reports**

During week 5, 23.05% of all RSV samples tested were positive. This was a decrease over the previous week 31.74%. The percent of samples positive RSV for this same week last year was 27.82%.

**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.



	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	5	2	1.33	16	15	7.65	4	4	1.92	11	29
BERGEN	3	0	0.00	11	0	0.00	6	0	0.00	0	0
BURLINGTON	5	4	0.20	103	66	5.33	3	3	2.20	6	25
CAMDEN	7	5	0.37	17	6	5.16	7	6	1.74	0	0
CAPE MAY	4	1	0.00	11	10	5.91	1	1	13.04	0	0
CUMBERLAND	4	2	1.16	18	7	7.53	3	3	4.91	2	13
ESSEX	14	6	1.00	31	14	5.51	11	8	4.55	21	85
GLOUCESTER	2	1	0.00	4	4	3.82	2	2	0.91	4	8
HUDSON	10	1	2.35	75	37	5.28	7	0	0.00	0	0
HUNTERDON	4	4	0.00	8	8	3.87	1	1	1.06	2	9
MERCER	10	5	1.75	12	10	2.86	5	4	3.69	6	36
MIDDLESEX	2	1	2.22	3	1	2.62	5	2	11.92	6	38
MONMOUTH	5	1	2.17	24	14	7.11	5	5	3.56	2	29
MORRIS	11	4	0.39	14	14	3.25	4	4	1.62	10	30
OCEAN	6	2	1.52	23	21	6.57	4	4	4.17	0	0
PASSAIC	8	4	0.50	22	9	5.79	6	2	5.98	0	0
SALEM	4	1	0.00	5	0	0.00	1	1	0.00	0	0
SOMERSET	5	3	0.56	52	26	4.20	2	2	18.55	0	0
SUSSEX	5	5	0.72	18	18	7.08	2	2	5.61	2	5
UNION	4	1	0.91	80	43	5.50	5	5	4.14	2	10
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	7	2.24	21	21	5.35	2	0	0.00	0	4
<b>NW Region</b>	31	20	0.88	75	62	5.57	14	8	3.55	12	39
<b>NE Region</b>	27	7	1.20	117	51	5.33	24	8	4.55	21	85
<b>CW Region</b>	19	12	0.74	72	44	3.78	8	7	7.89	8	45
<b>CE Region</b>	17	5	1.66	130	79	6.06	19	16	5.20	10	77
<b>South Region</b>	31	16	0.59	174	108	5.94	21	20	2.53	23	75
<b>State Total</b>	<b>125</b>	<b>60</b>	<b>0.88</b>	<b>568</b>	<b>344</b>	<b>5.49</b>	<b>86</b>	<b>59</b>	<b>4.38</b>	<b>74</b>	<b>321</b>