

**New Jersey Department of Health and Senior Services**  
**Communicable Disease Service**  
**Influenza Activity Summary**  
**Week Ending March 24, 2007 (MMWR Week 12)**

**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 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

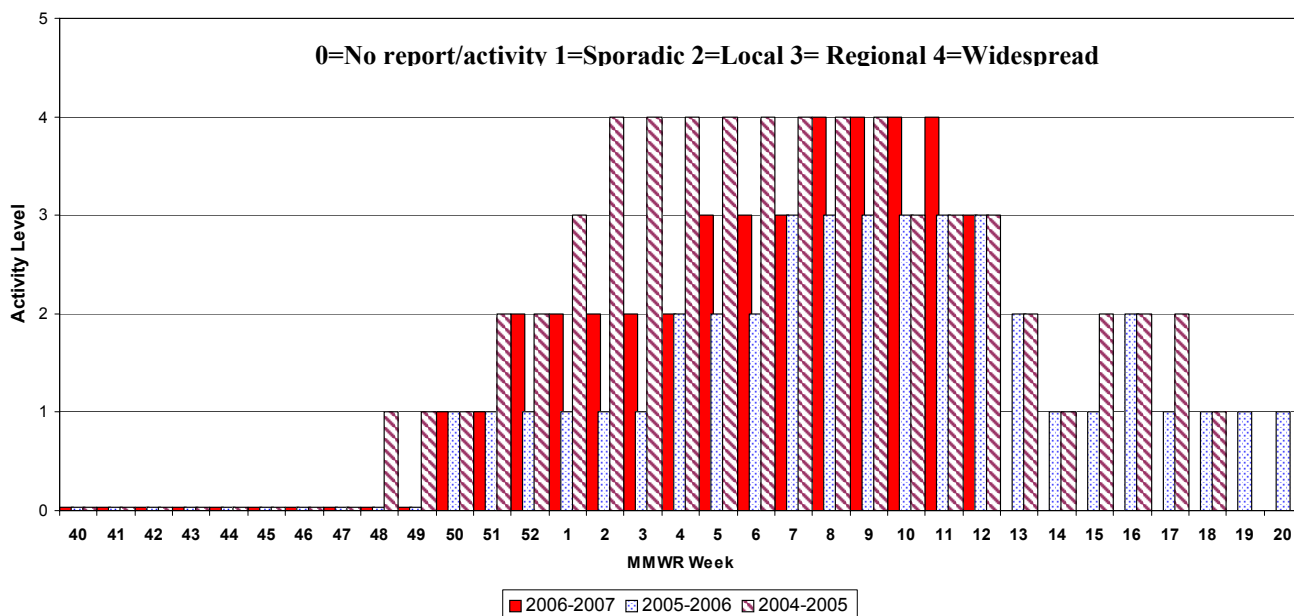
Regional – At least 2 of 3 parameters above state baseline in  $\geq 2$  but  $\leq 10$  counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in  $\geq 2$  but  $\leq 10$  counties

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.

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



## **Regional Data**

**REGIONAL ACTIVITY – NE and CE**  
**LOCAL ACTIVITY – NW and South**  
**SPORADIC ACTIVITY - CW**

**NOTE:** More the half of the counties reporting in the NE and CE 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 and South public health regions were above state baseline and had laboratories confirmed influenza by viral isolation in the previous three weeks. In the CW public health region no single county had positive laboratories and parameters above state baseline, however, positive laboratory reports were received for 2 counties.

### 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

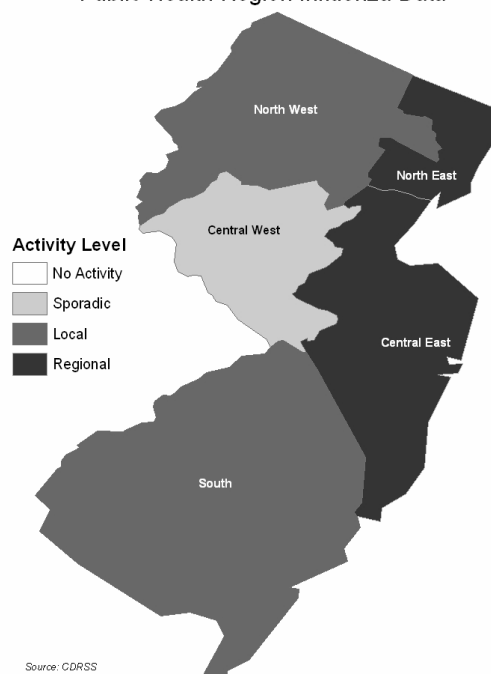
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

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, 322 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.

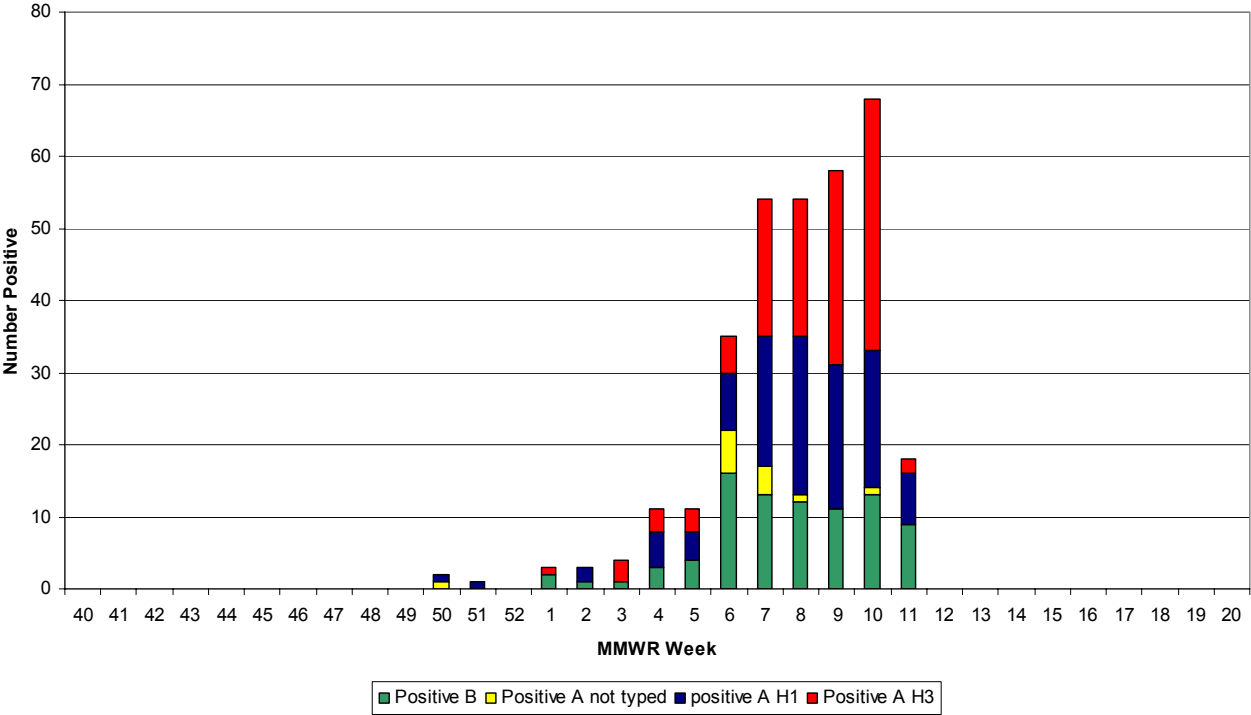
Influenza Type	Number positive	County Data		
		County	# positive	MMWR Week
Influenza A H1	107	Camden	1	50
		Bergen	1	51
		Morris	1	2
		Union	1	2
		Camden	1	4
		Essex	2	4
		Middlesex	2	4
		Mercer	1	5
		Monmouth	1	5
		Cape May	1	5
		Camden	1	5
		Monmouth	4	6
		Union	2	6
		Camden	1	6
		Middlesex	1	6
		Essex	3	7
		Middlesex	4	7
		Monmouth	2	7
		Morris	1	7
		Somerset	3	7
		Union	4	7
		Warren	1	7
		Essex	4	8
		Hudson	1	8
		Middlesex	3	8
		Mercer	1	8
		Monmouth	5	8
		Morris	1	8
		Somerset	3	8
		Union	3	8
		Warren	1	8
		Essex	2	9
		Gloucester	1	9
		Mercer	3	9
		Middlesex	4	9
		Monmouth	3	9
		Morris	1	9
		Passaic	1	9
		Somerset	3	9
		Warren	1	9
		Cape May	1	10
		Gloucester	2	10
		Hunterdon	2	10
		Middlesex	7	10
		Monmouth	2	10
		Ocean	1	10
		Union	2	10
		Unknown	2	10
		Hunterdon	1	11
		Middlesex	2	11
		Monmouth	1	11
		Passaic	1	11
		Union	1	11
		Unknown	1	11
Influenza A H3	117	Middlesex	1	1
		Essex	1	3
		Hunterdon	1	3
		Monmouth	1	3
		Monmouth	1	4
		Passaic	1	4
		Unknown	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
		Gloucester	2	8
		Mercer	1	8
		Middlesex	6	8
		Monmouth	1	8
		Morris	2	8
		Passaic	1	8
		Somerset	1	8
		Union	2	8
		Out of state	1	8
		Bergen	2	9
		Essex	1	9
		Gloucester	8	9
		Hunterdon	2	9
		Hudson	1	9
		Mercer	2	9
		Middlesex	5	9
		Monmouth	1	9
		Morris	1	9
		Somerset	1	9
		Unknown	1	9
		Out of state	2	9
		Essex	1	10
		Gloucester	5	10
		Hudson	2	10
		Hunterdon	4	10
		Middlesex	3	10
		Monmouth	4	10
		Morris	1	10
		Passaic	3	10
		Somerset	7	10
		Union	2	10
		Unknown	2	10
		Out of state	1	10
		Hunterdon	1	11
		Passaic	1	11

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
		Bergen	2	7
		Hudson	1	7
		Union	1	7
		Bergen	1	8
		Bergen	1	10

Influenza Type	Number positive	County Data		
		County	# positive	MMWR Week
Influenza B	85	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	2	8
		Mercer	1	8
		Middlesex	1	8
		Monmouth	4	8
		Morris	2	8
		Passaic	2	8
		Gloucester	1	9
		Middlesex	4	9
		Monmouth	3	9
		Passaic	1	9
		Somerset	1	9
		Union	1	9
		Atlantic	1	10
		Gloucester	1	10
		Hunterdon	1	10
		Middlesex	2	10
		Monmouth	2	10
		Ocean	1	10
		Somerset	1	10
		Union	2	10
		Unknown	2	10
		Bergen	1	11
		Hunterdon	1	11
		Monmouth	1	11
		Morris	1	11
		Passaic	1	11
		Somerset	1	11
		Union	2	11
		Unknown	21	11
<b>Total</b>	<b>322</b>			

**NOTE:** Information on county of residence may be obtained after original laboratory report. The county of residence is updated each week to account the correct information on each case.

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

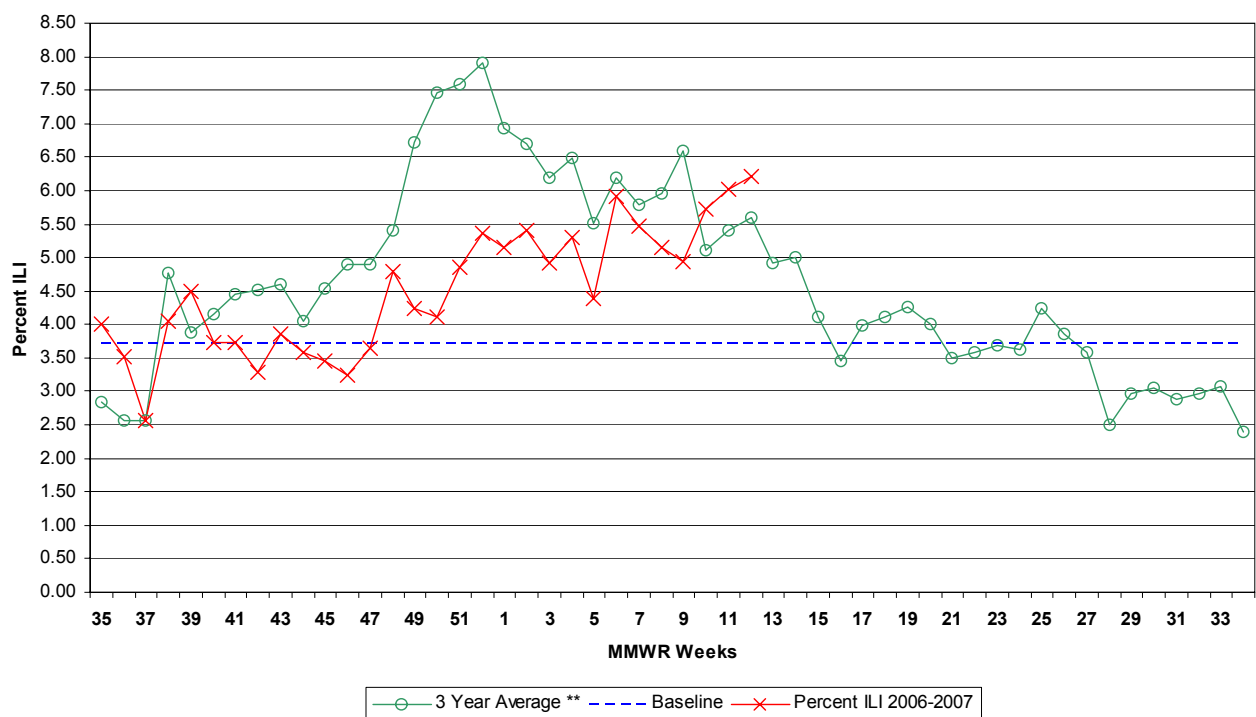


## **Influenza-like Illness (ILI) Surveillance\***

### **Emergency Departments**

During week 12, 6.22% ILI was reported statewide from emergency departments. This is an increase over the previous week (6.03%). The percent ILI for each county ranged from 0.00 to 29.67%. The percent ILI for this same week last year was 4.90% in emergency departments. The percent ILI for the northwest (5.17%), northeast (7.27%), central west (10.56%), and central east (7.54%) public health regions were above state baseline (3.71%).

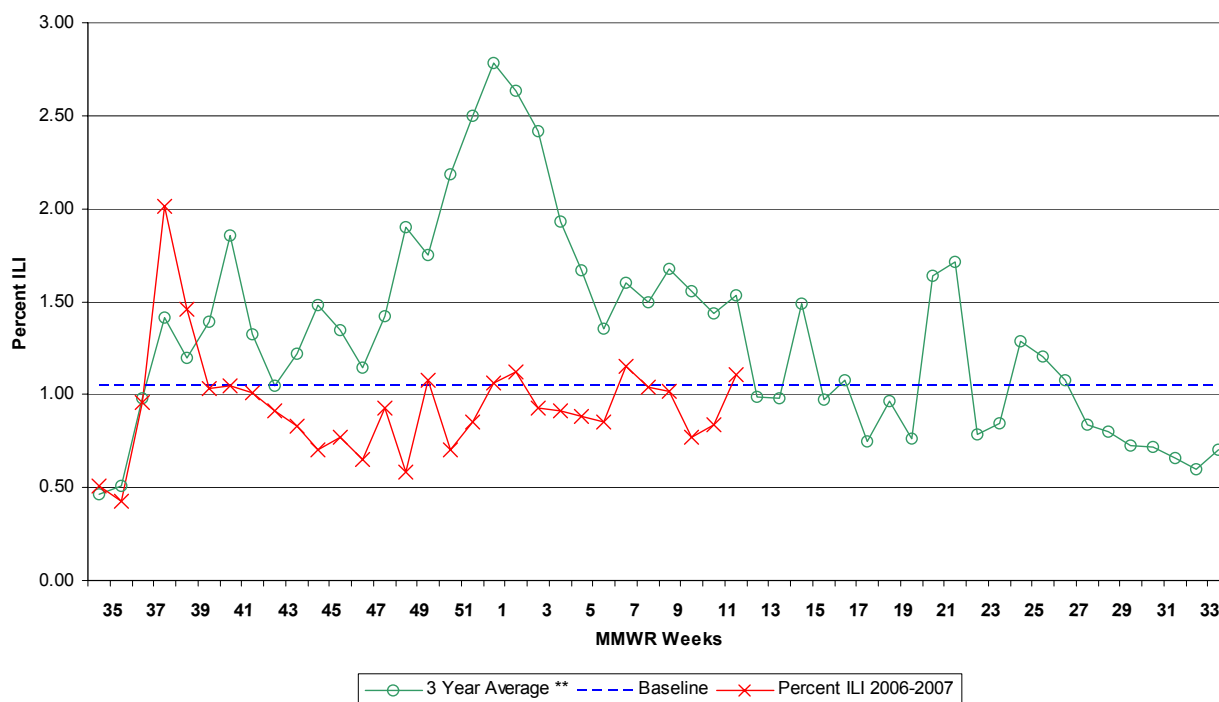
### **New Jersey Department of Health and Senior Services Influenza-like Activity - Emergency Departments**



## Long-term Care Facilities

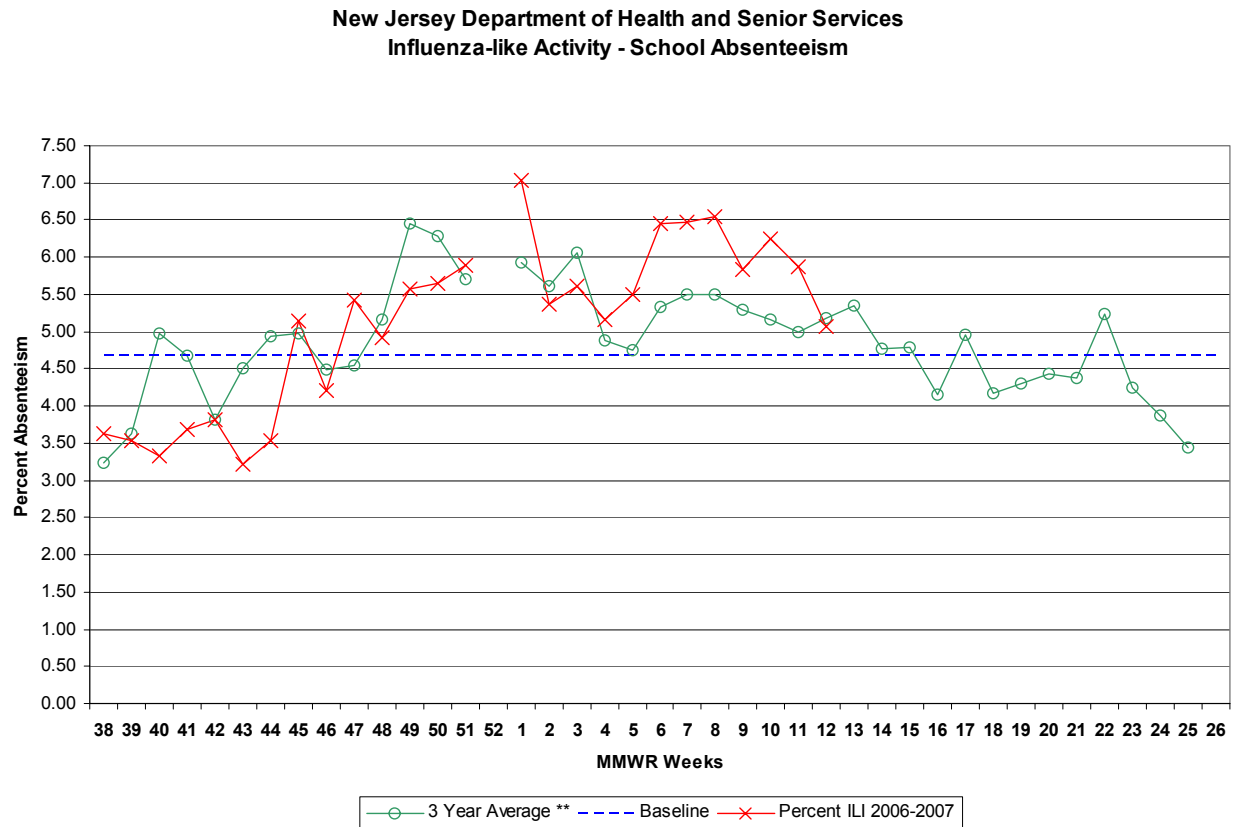
During week 12, 1.11% ILI was reported statewide from long term care facilities. This is an increase over the previous week (0.84%). The percent ILI for each county ranged from 0.00% to 5.69%. One report regarding ILI/respiratory outbreaks in communal living facilities were received in week 12. Specimens from 4 patients were collected, 3 of which were positive by PCR. The percent ILI for this same week last year was 1.20% in long-term care facilities. The percent ILI for the northwest (1.29%), central west (2.01%) and south (1.06%) public health regions were above state baseline (1.05%).

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



## School Absenteeism

During week 12, schools reported 5.07% absenteeism. This is a decrease over the previous week (5.87%). The percent ILI for each county ranged from 2.94 – 6.98%. The percent absent for this same week last year was 4.82%. The percent ILI for the northwest (4.79%), the northeast (6.09%), the central east (5.40%) and the south (5.04%) public health regions were above state baseline (4.68%).





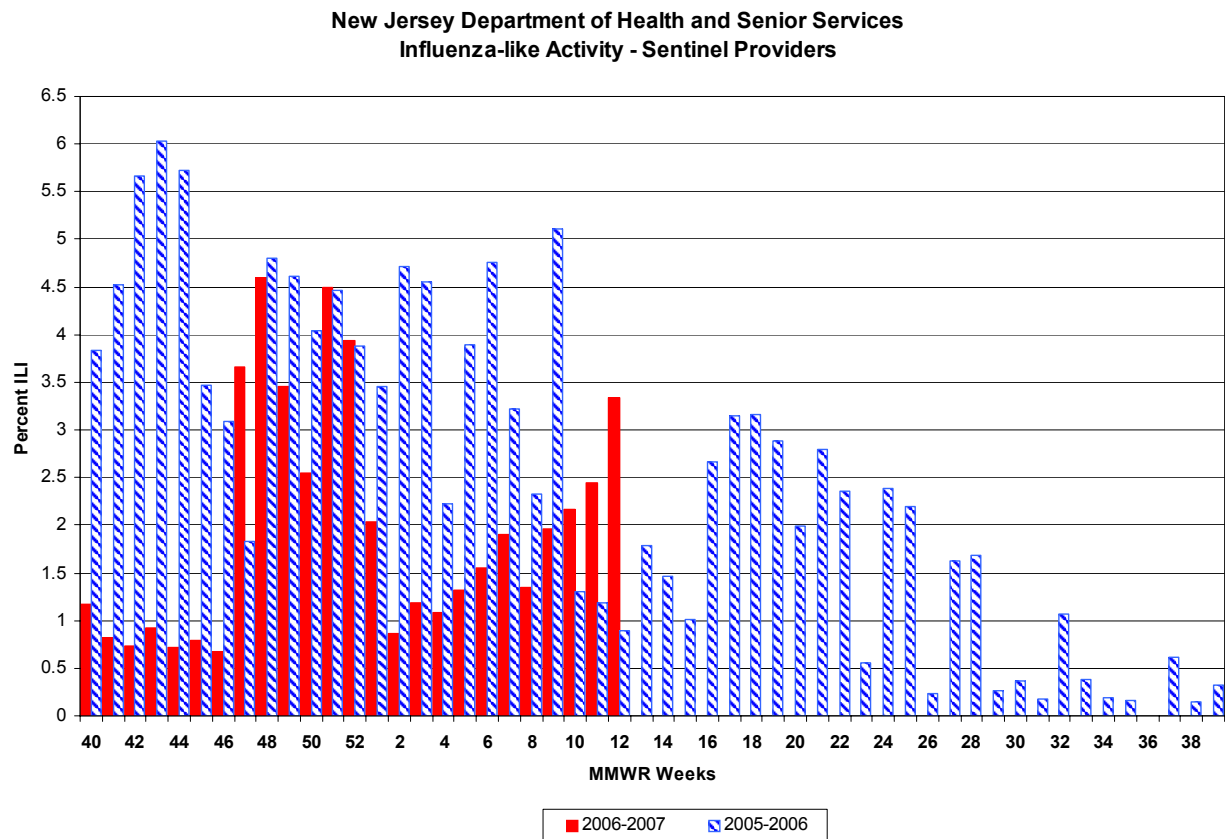
## **Sentinel Provider Surveillance**

During week 12, 3.34% of sentinel provider patient visits were due to ILI. These data reflect reports from eight (17%) of the enrolled sentinel providers.

### **UPDATE**

During week 11, 2.44% of sentinel provider patient visits were due to ILI. These data reflect reports from fourteen (30%) of the enrolled sentinel providers.

During week 10, 2.17% of sentinel provider patient visits were due to ILI. These data reflect reports from twenty (42%) of the enrolled sentinel providers.



## **Pediatric Influenza Surveillance**

To date, NJDHSS has received 77 reports of pediatric illness. To date, eight cases have met the case definition for pediatric illness or death associated with influenza.

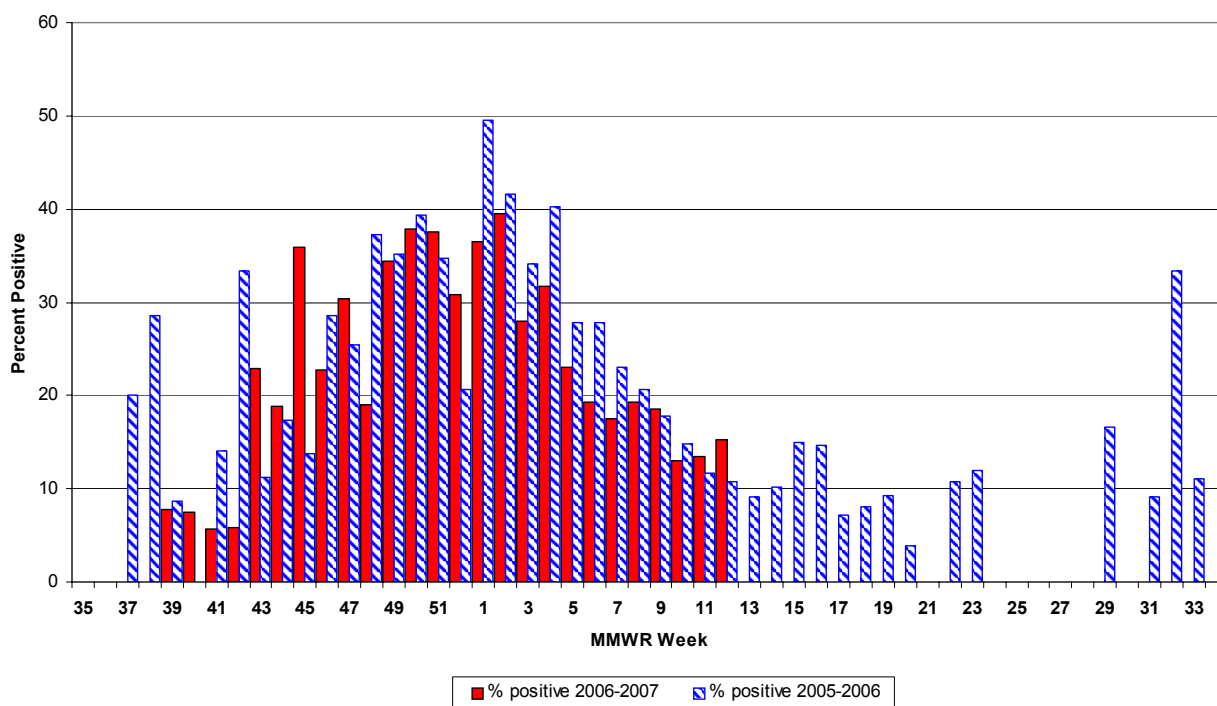
## **122 City Mortality Report**

During week 11, 8.46% 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 (8.43%). The percentage of death due to pneumonia or influenza for this same week last year was 4.17%.

## **RSV Reports**

During week 12, 15.27% of all RSV samples tested were positive. This was an increase over the previous week 13.49%. The percent of samples positive RSV for this same week last year was 10.84%.

**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	0.54	16	13	6.98	4	4	1.57	5	22
BERGEN	3	0	0.00	14	1	6.91	6	0	0.00	1	9
BURLINGTON	6	1	0.00	103	65	4.88	3	3	1.42	2	21
CAMDEN	7	3	0.17	17	4	4.65	7	4	2.46	0	0
CAPE MAY	4	3	3.87	11	9	3.97	1	1	12.38	0	0
CUMBERLAND	4	2	1.85	18	4	4.67	3	3	5.63	0	6
ESSEX	14	4	0.34	31	12	5.42	11	7	8.03	17	119
GLOUCESTER	2	2	0.00	4	3	2.94	2	2	2.82	0	3
HUDSON	10	2	0.70	76	43	6.24	8	2	4.26	3	8
HUNTERDON	4	3	5.69	8	8	3.47	1	1	1.09	0	2
MERCER	10	5	0.95	12	10	3.49	5	4	3.58	3	100
MIDDLESEX	2	0	0.00	20	6	5.04	5	2	17.35	8	56
MONMOUTH	6	2	0.51	25	13	6.50	5	4	4.71	1	13
MORRIS	11	4	2.39	14	12	3.11	4	2	3.58	1	17
OCEAN	6	2	0.00	27	15	5.32	4	4	5.25	0	0
PASSAIC	8	3	0.59	22	10	4.72	6	2	5.03	0	0
SALEM	4	2	0.00	5	0	0.00	1	1	0.00	0	0
SOMERSET	5	2	0.00	53	25	3.64	2	2	29.67	0	0
SUSSEX	5	5	0.12	20	20	5.58	2	2	1.96	0	8
UNION	4	2	0.88	82	38	5.07	5	4	7.36	41	153
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	3	0.93	21	17	4.69	2	2	11.19	0	0
<b>NW Region</b>	31	15	1.29	77	59	4.79	14	8	5.17	1	25
<b>NE Region</b>	27	6	0.46	121	56	6.09	25	9	7.27	21	136
<b>CW Region</b>	19	10	2.01	73	43	3.57	8	7	10.56	3	102
<b>CE Region</b>	18	6	0.55	154	72	5.40	19	14	7.54	50	222
<b>South Region</b>	32	15	1.06	174	98	5.04	21	18	3.02	7	52
<b>State Total</b>	<b>127</b>	<b>52</b>	<b>1.11</b>	<b>599</b>	<b>328</b>	<b>5.07</b>	<b>87</b>	<b>56</b>	<b>6.22</b>	<b>82</b>	<b>537</b>