

**New Jersey Department of Health and Senior Services**  
**Communicable Disease Service**  
**Influenza Activity Summary**  
**Week Ending January 26, 2008 (MMWR Week 4)**

**Influenza Activity Level:**    **REGIONAL**

**NOTE:** Three of three reporting parameters are above state baseline. Additionally, ten counties had 2 of 3 parameters above baseline as well as several laboratory confirmed cases in the previous 3 weeks for these same counties.

**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

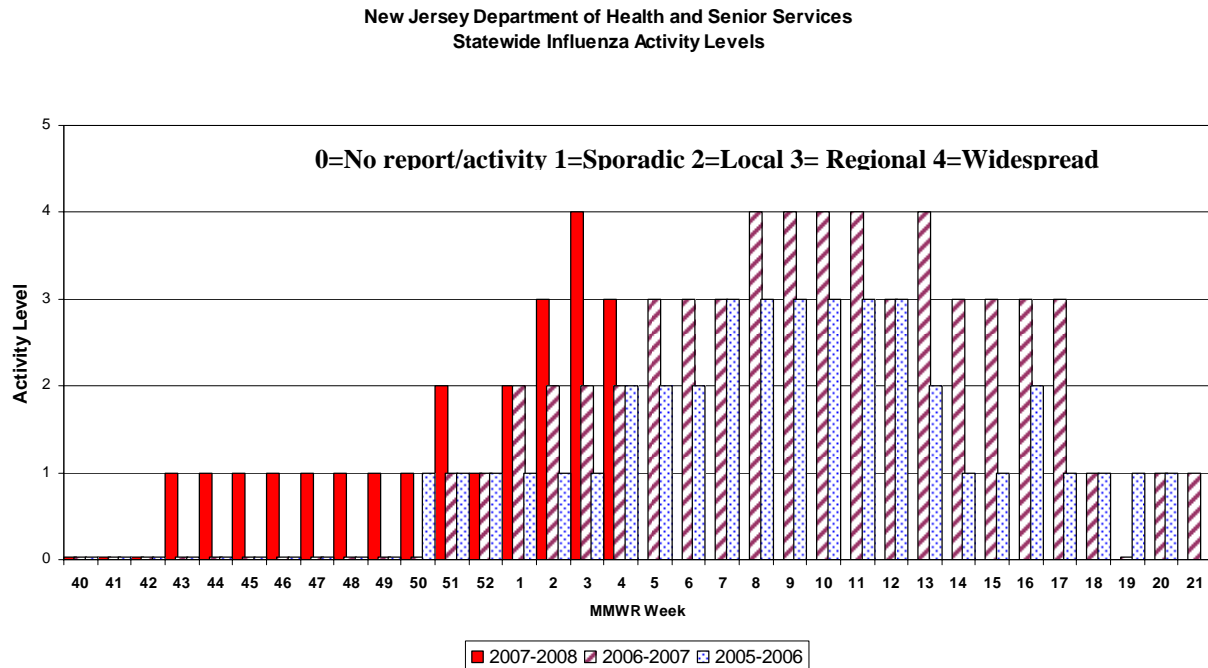
**Local** – At least 2 or 3 parameters above state baseline in a single county **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county

**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 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.



## **Regional Data**

### **REGIONAL – NE AND CE SPORADIC – NW, 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)

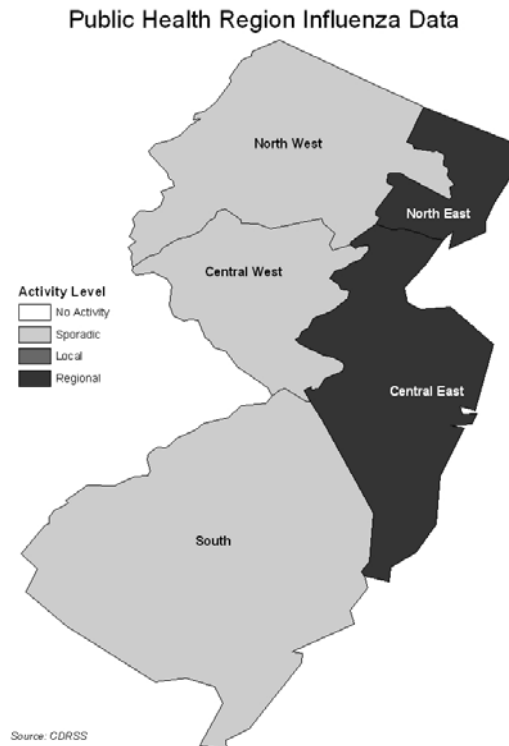
No Activity- At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases in the public health region

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



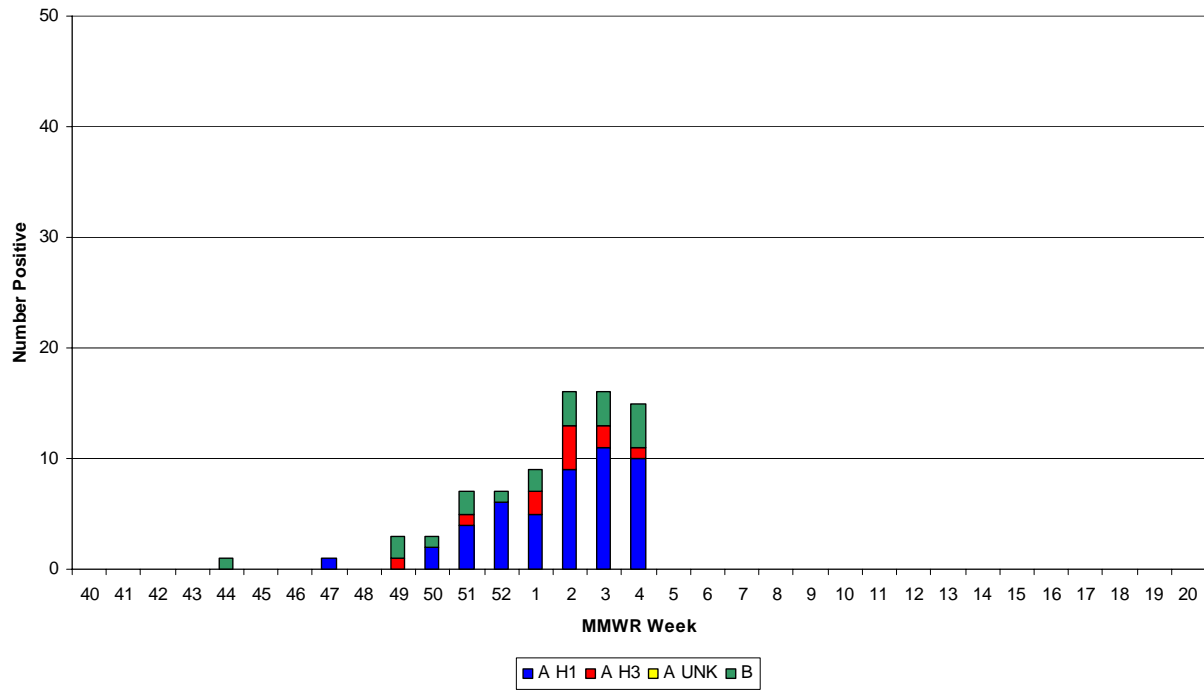
## Laboratory Surveillance

As of week 4, 78 samples have been found to be positive by viral culture (48- AH1, 11-AH3 and 19-B). Rapid and culture results by county are displayed below.

County	Week 40 to Week 4							Weeks 2, 3, 4						
	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														
Bergen County	6	3		4			2	1	1					
Burlington County	13							4						
Camden County														
Cape May County														
Cumberland County														
Essex County	12	6	14		1			8	5	8	1	1		
Gloucester County														
Hudson County				4	3		4				2	2		3
Hunterdon County				4	1		2				3	1		1
Mercer County	14	9		3	1		3	9	5		2	1		2
Middlesex County	3			4			1	3			2			
Monmouth County	2		5	3	1		1			5	2	1		1
Morris County				4	1		1				3			1
Ocean County														
Passaic County	5	2		6			1	5	2		5			1
Salem County														
Somerset County			3	5	1					2	4			
Sussex County	7	3						3	2					
Union County	1			8	2		3				4	1		
Warren County	3							2						
Unknown				2			1				2			1
State Total	66	23	22	48	11		19	35	15	15	30	7		10

\*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

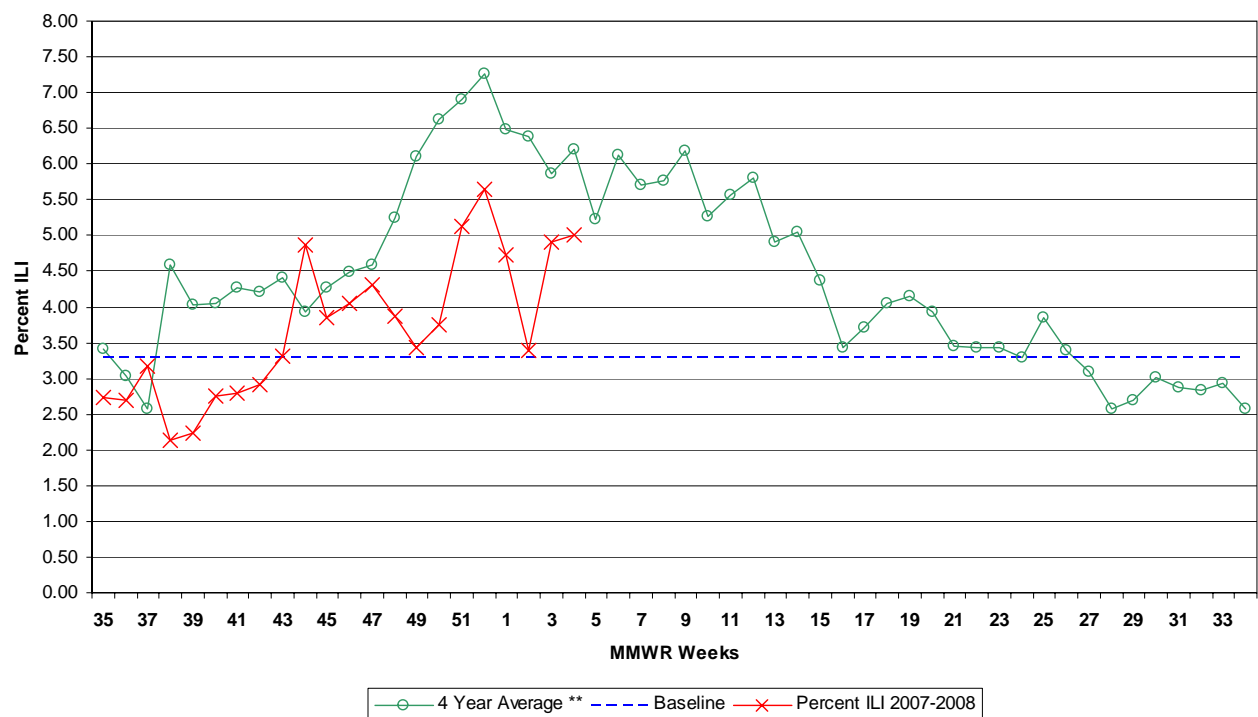


## Influenza-like Illness (ILI) Surveillance\*

### Emergency Departments

During week 4, 5.01% ILI was reported statewide from emergency departments. This is an increase over the previous week (4.90%). The percent ILI for each county ranged from 1.11 to 18.75%. The percent ILI for this same week last year was 5.30% in emergency departments. The percent ILI for the northwest (6.84%), northeast (6.75%), central east (5.48%) and south (3.33%) public health regions were above state baseline (3.30%).

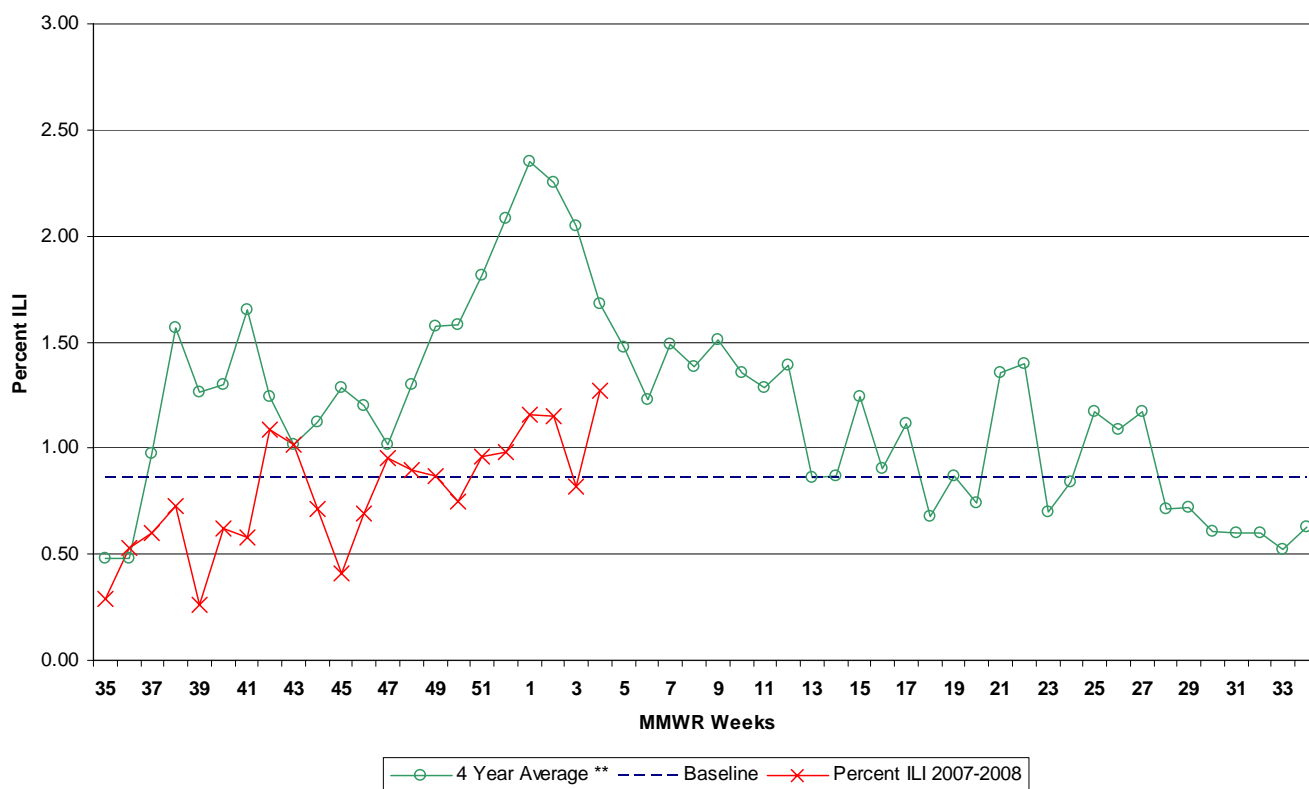
New Jersey Department of Health and Senior Services  
Influenza-like Activity - Emergency Departments



## Long-term Care Facilities

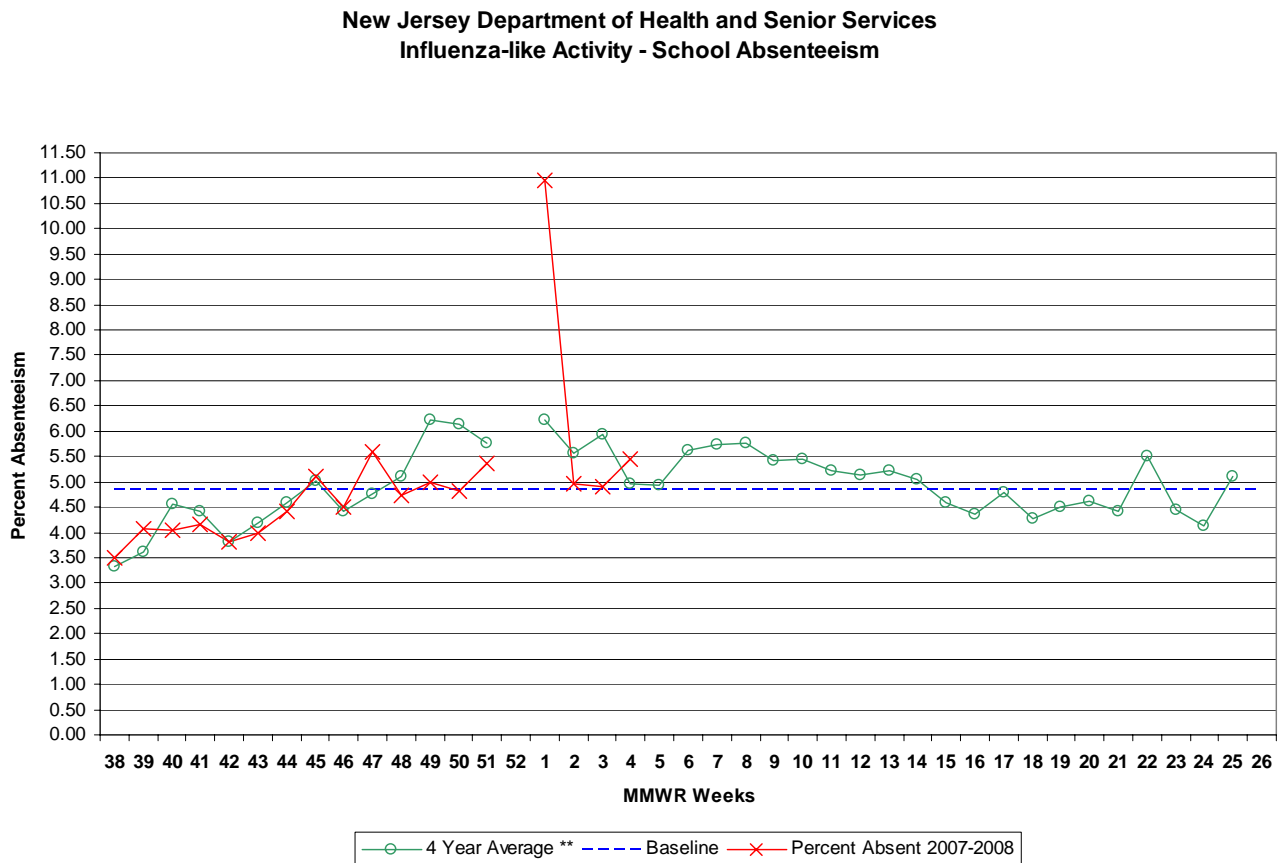
During week 4, 1.27% ILI was reported statewide from long term care facilities. This is an increase over the previous week (0.82%). The percent ILI for each county ranged from 0.00% to 8.48%. The percent ILI for this same week last year was 0.91% in long-term care facilities. The percent ILI for the northwest (2.33%), central east (1.49%) and south (0.98%) public health regions were above state baseline (0.86%). One report was received regarding an ILI/respiratory outbreak in communal living facilities in week 4.

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



## School Absenteeism

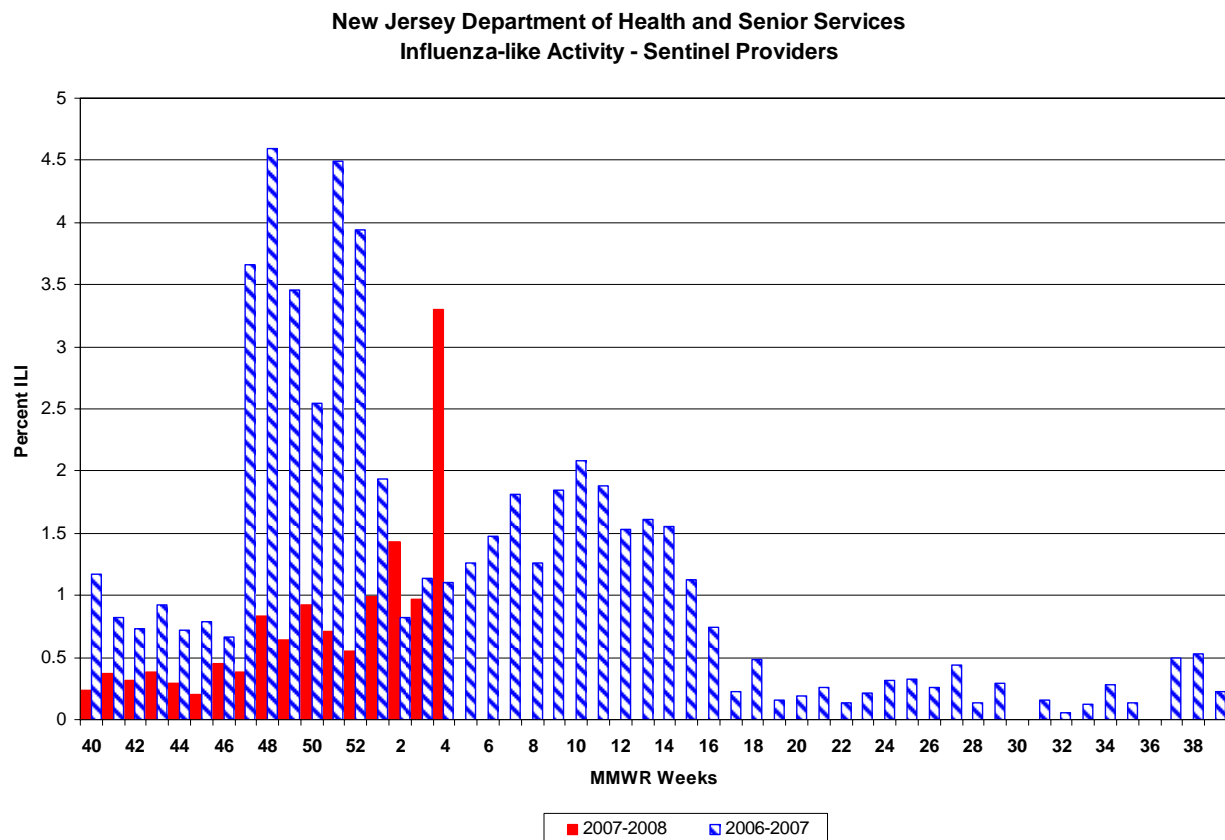
During week 4, schools reported 5.45% absenteeism. This is an increase over the previous week (4.91%). The percent ILI for each county ranged from 2.90 – 8.21%. The percent absent for this same week last year was 5.16%. The percent ILI for the northwest (5.87%), northeast (5.63%), central east (5.83%) and south (5.25%) public health regions were above state baseline (4.85%).



## **Sentinel Provider Surveillance**

During week 4, 3.30% of sentinel provider patient visits were due to ILI. These data reflect reports from six (15%) of the enrolled sentinel providers.

During week 3, 0.97% 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 10 reports of pediatric illness. Eight of these cases have met the case definition for pediatric illness or death associated with influenza

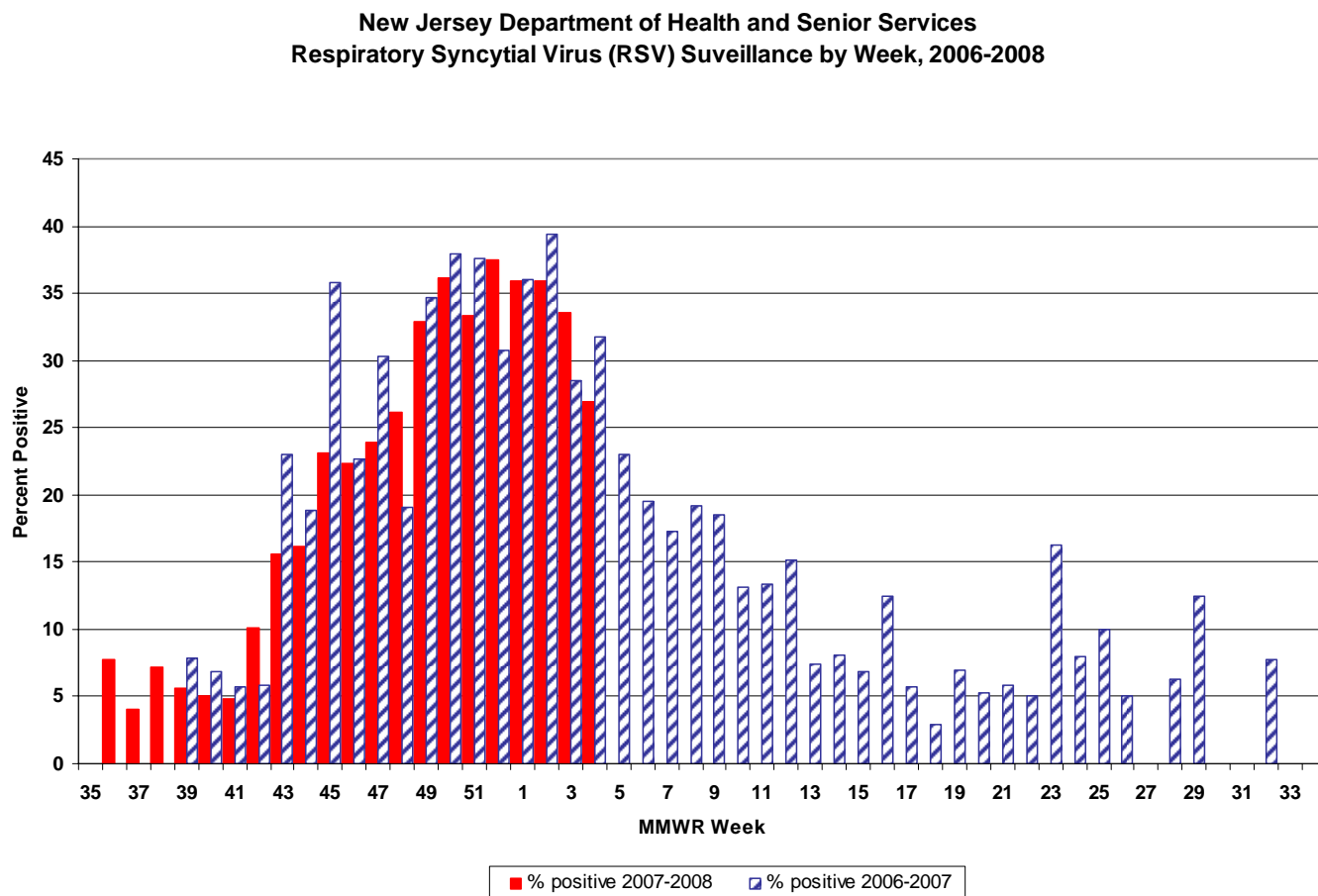
## **122 City Mortality Report**

During week 3, 7.34% of all deaths reported by the vital statistics offices in 4 New Jersey cities (i.e., Camden, Elizabeth, Paterson, Trenton) were due to pneumonia or influenza. This is a decrease as the previous week (8.07%). The percentage of death due to pneumonia or influenza for this same week last year was 4.50%.



## **RSV Reports**

During week 4, 26.88% of all RSV samples tested were positive. This was a decrease over the previous week 33.52%. The percent of samples positive for RSV for this same week last year was 31.74%.



## **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	5	1	2.30	17	15	6.48	4	4	1.11	7	39
BERGEN	3	0	0.00	14	0	0.00	6	0	0.00	0	19
BURLINGTON	6	3	0.00	104	55	4.42	3	0	0.00	19	51
CAMDEN	7	1	0.00	17	1	8.31	7	4	1.12	0	0
CAPE MAY	5	4	0.92	11	9	5.46	1	1	11.36	2	6
CUMBERLAND	4	2	3.04	18	10	7.45	3	3	5.82	3	8
ESSEX	14	2	0.00	34	5	3.88	11	5	9.07	19	87
GLOUCESTER	2	1	3.17	5	2	5.14	2	2	4.97	3	5
HUDSON	10	2	0.69	87	62	5.70	8	2	2.70	5	10
HUNTERDON	4	4	0.23	8	6	5.22	1	1	1.20	1	20
MERCER	10	5	0.53	24	17	4.56	5	4	4.74	15	45
MIDDLESEX	2	1	0.00	46	15	4.96	5	1	12.23	17	89
MONMOUTH	6	4	1.97	24	13	7.38	5	4	2.85	11	32
MORRIS	11	2	0.46	14	11	2.90	4	2	2.45	12	29
OCEAN	6	0	0.00	27	0	0.00	4	0	0.00	0	0
PASSAIC	8	4	2.44	23	5	8.21	6	1	8.33	5	25
SALEM	4	2	0.00	5	0	0.00	1	1	1.67	0	0
SOMERSET	5	2	0.81	62	19	4.19	2	2	4.21	4	8
SUSSEX	5	5	2.08	24	22	6.19	2	2	4.39	7	11
UNION	4	1	0.90	118	44	5.62	5	4	6.70	6	22
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	3	8.48	21	14	5.03	2	1	18.75	0	0
NW Region	31	14	2.33	82	52	5.87	14	6	6.84	24	65
NE Region	27	4	0.28	135	67	5.63	25	7	6.75	24	116
CW Region	19	11	0.48	94	42	4.48	8	7	4.17	20	73
CE Region	18	6	1.49	215	72	5.83	19	9	5.48	34	143
South Region	33	14	0.98	177	92	5.25	21	15	3.33	34	109
State Total	128	49	1.27	703	325	5.45	87	44	5.01	136	506