

**New Jersey Department of Health and Senior Services**  
**Communicable Disease Service**  
**Influenza Activity Summary**  
**Week Ending February 7, 2009 (MMWR Week 5)**

**Influenza Activity Level:**     **WIDESPREAD**

All three reporting parameters were above state baseline. Ten counties have 2 of 3 parameters above state baseline and seventeen counties have had culture positive samples in the last 3 weeks. Seven counties had both positive cultures and 2 of 3 parameters above baseline.

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

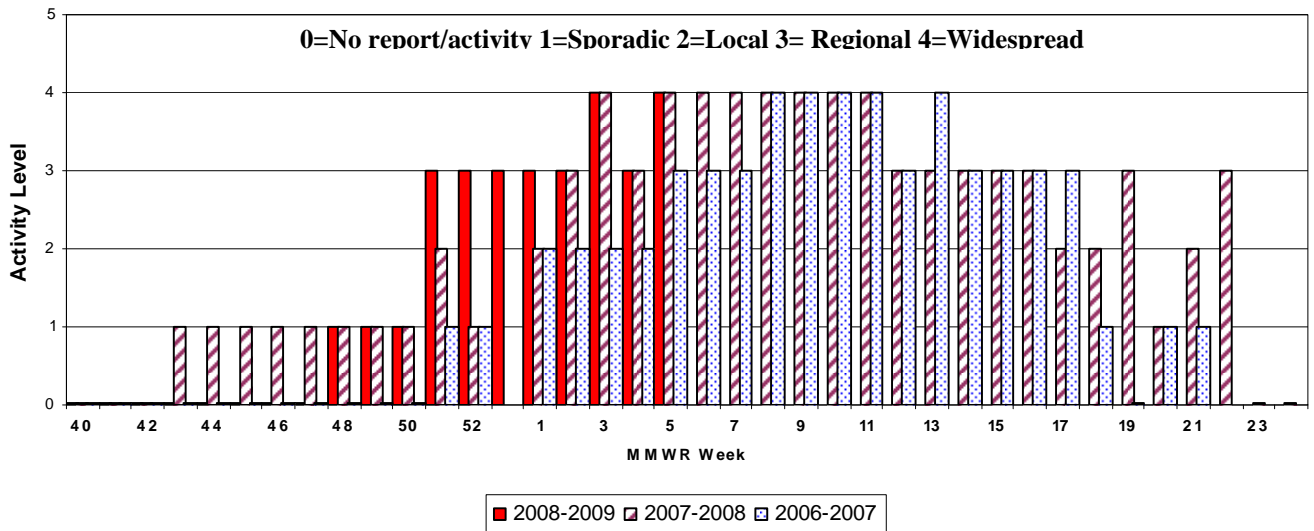
Regional – At least 2 of 3 parameters above state baseline in  $\geq 2$  but  $\leq 10$  counties **AND** laboratory confirmed cases from these same counties in the past 3 weeks **OR** confirmed outbreaks institutions in  $\geq 2$  but  $\leq 10$  counties

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

Off season baseline is calculated by taking the average of statewide percentages of ILI for a 3 year (2006, 2007, 2008) period during months when influenza is less likely to be circulating (May-August).

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



## Regional Data

Region	Counties in Region	Activity Level
NW Region	Morris, Passaic, Sussex, Warren	<b>REGIONAL</b>
NE Region	Bergen, Essex, Hudson	<b>LOCAL</b>
CW Region	Hunterdon, Mercer, Somerset	<b>LOCAL</b>
CE Region	Middlesex, Monmouth, Ocean, Union	<b>REGIONAL</b>
South Region	Atlantic, Burlington, Camden, Cape May, Salem, Cumberland, Gloucester	<b>REGIONAL</b>

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

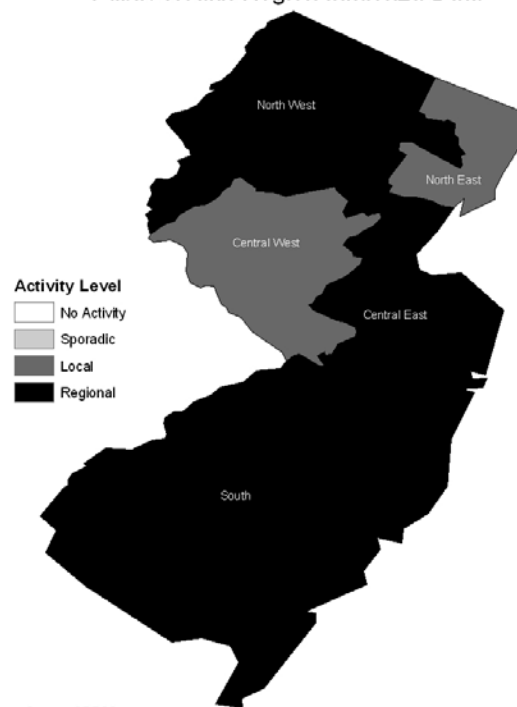
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

Local – At least 2 of 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 the counties of public health region **AND** laboratory confirmed cases from these same counties in the 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



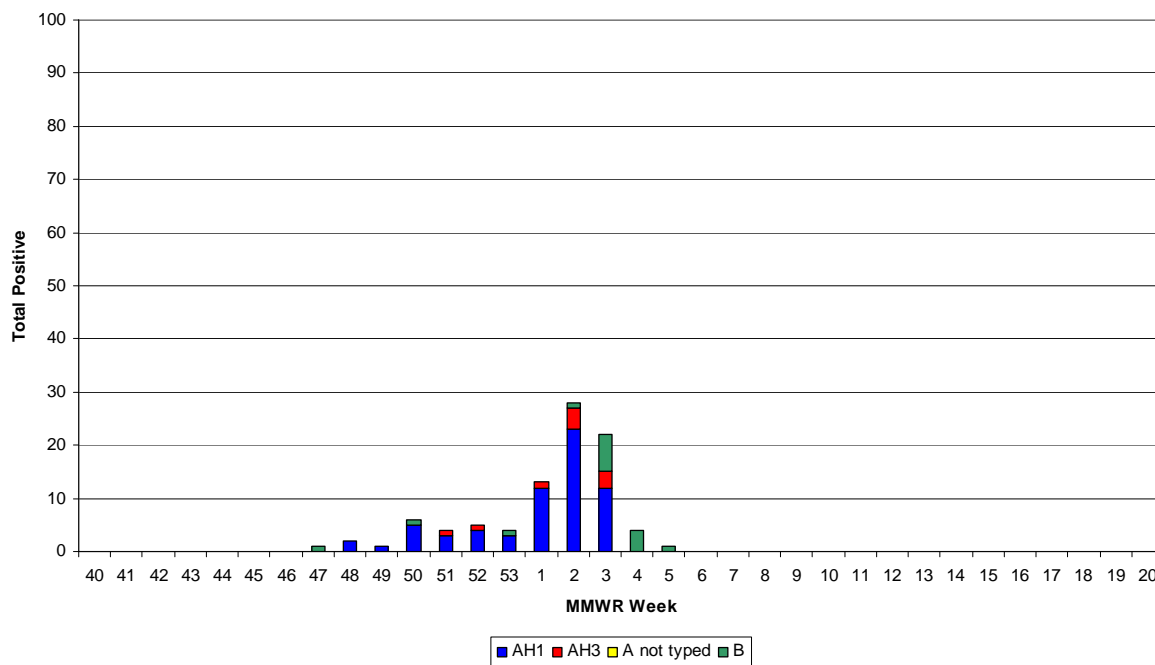
## Laboratory Surveillance

As of week 4, ninety-one samples were found to be positive by viral culture for influenza AH1, AH3 and influenza B. Rapid and culture results by county are displayed below.

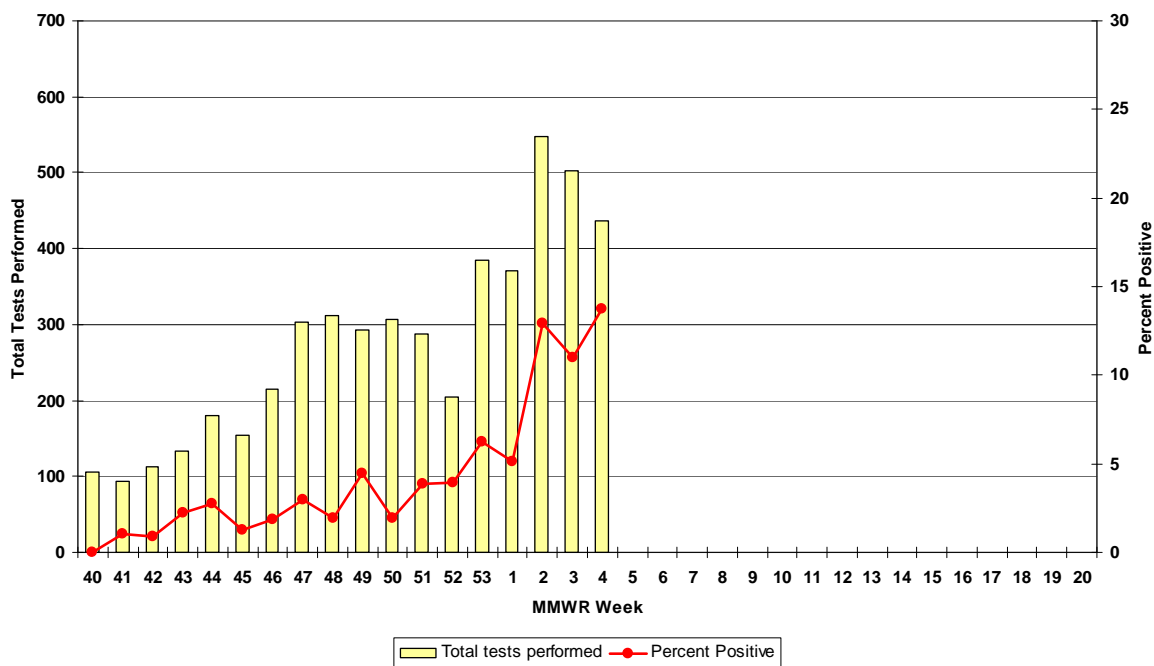
County	Week 40 to Week 3							Week 1, 2, 3						
	Rapid*			Culture*				Rapid*			Culture*			
	A	B	A/B	A H1	A H3	A UNK	B	A	B	A/B	A H1	A H3	A UNK	B
Atlantic County	16	0	0	7	0	0	0	15	0	0	6	0	0	0
Bergen County	10	1	0	2	0	0	0	5	0	0	1	0	0	0
Burlington County	15	0	0	0	0	0	0	6	0	0	0	0	0	0
Camden County	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Cape May County	9	0	0	4	0	0	0	8	0	0	4	0	0	0
Cumberland County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Essex County	76	21	10	1	1	0	2	53	13	6	0	0	0	2
Gloucester County	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Hudson County	17	2	0	4	1	0	1	11	0	0	1	1	0	1
Hunterdon County	4	0	14	9	1	0	1	4	0	5	3	1	0	0
Mercer County	1	0	0	1	1	0	0	0	0	0	1	1	0	0
Middlesex County	14	0	0	4	1	0	0	9	0	0	1	1	0	0
Monmouth County	10	0	23	6	1	0	1	2	0	18	2	0	0	0
Morris County	0	0	0	6	1	0	2	0	0	0	2	0	0	2
Ocean County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Passaic County	21	1	0	0	0	0	0	9	0	0	0	0	0	0
Salem County	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Somerset County	0	0	9	6	1	0	1	0	0	9	5	1	0	1
Sussex County	16	4	0	1	0	0	0	11	1	0	1	0	0	0
Union County	1	1	0	12	2	0	5	0	0	0	6	2	0	4
Warren County	2	0	0	2	0	0	0	1	0	0	2	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>State Total</b>	212	30	56	65	10	0	16	134	14	38	35	7	0	13

\*Rapid data is acquired from facilities reporting rapid influenza tests via NREVSS or CDRSS ILI module. Culture results are obtained from the LIMS system at PHEL, hospital viral culture laboratories via NREVSS or commercial laboratories reporting in CDRSS. County of residence as provided by the laboratory is used to assign culture results to a county. If county of residence is not available, the county of the facility reporting is utilized.

**Influenza Laboratory Report  
Viral Culture Positive Specimens by Week  
2008-2009 Influenza Season**



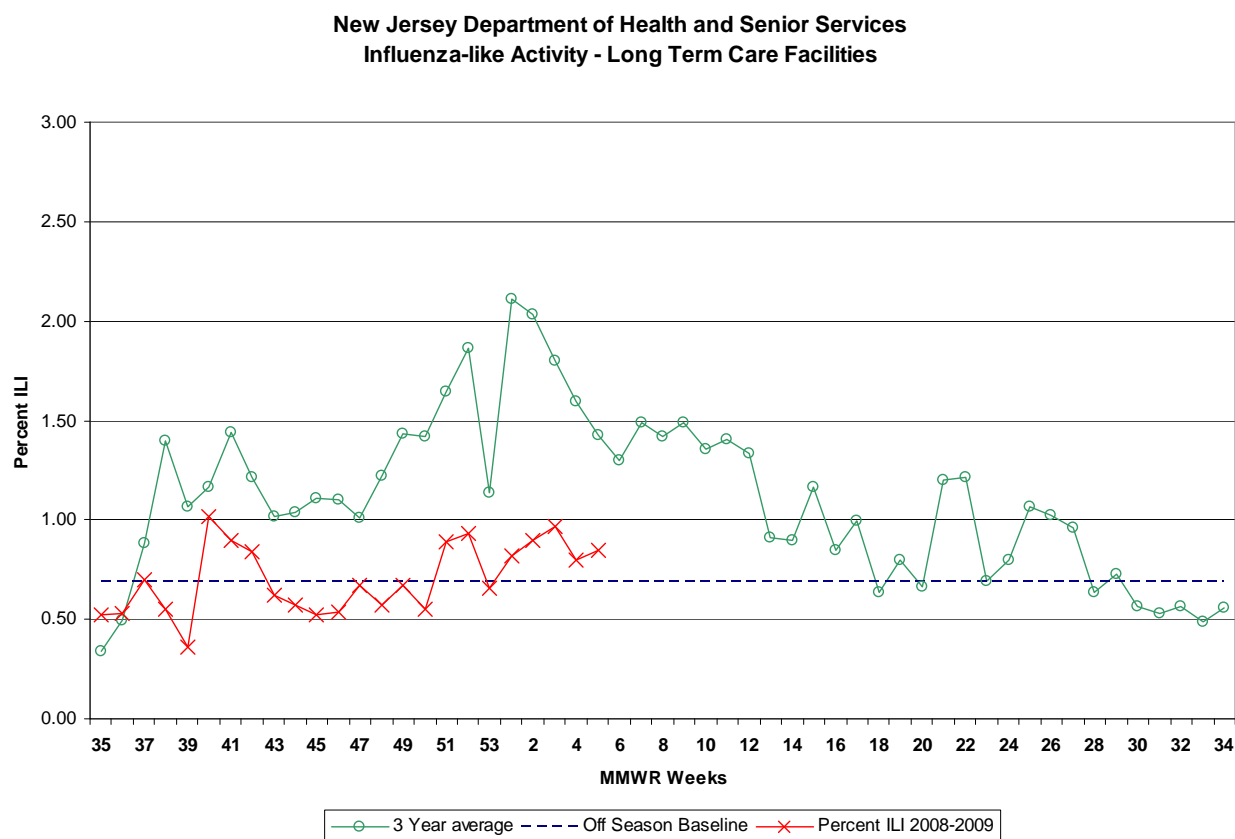
**Influenza Rapid Antigen Tests  
Total and Percent Positive  
2008-2009 Influenza Season**



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

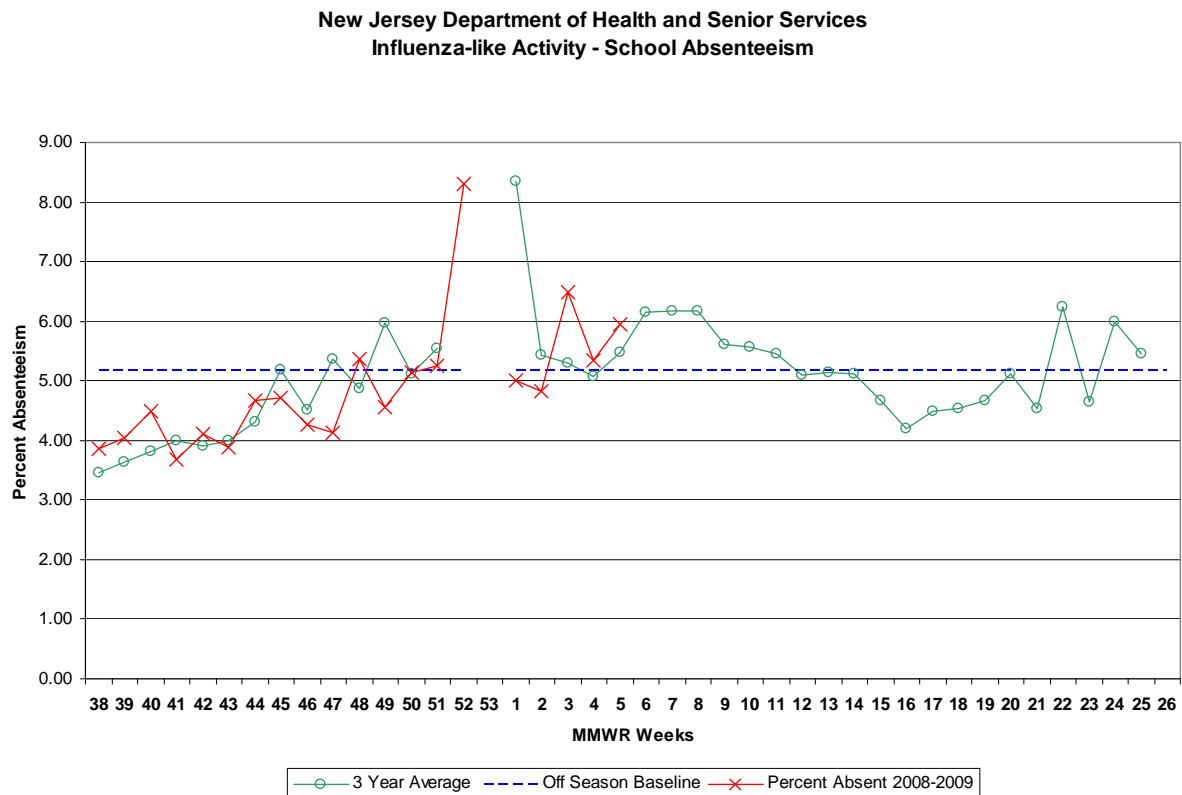
### **Long-term Care Facilities**

During week 5, 0.85% ILI was reported statewide from long term care facilities. This is an increase over the previous week (0.80%). The percent ILI for each county ranged from 0.00% to 4.11%. The percent ILI for this same week last year was 1.25% in long-term care facilities. The percent ILI for the northwest (1.31%), northeast (2.49%) and south (0.78%) public health regions were above the state baseline (0.69%). No new respiratory outbreaks in long term care facilities were received in week 5.



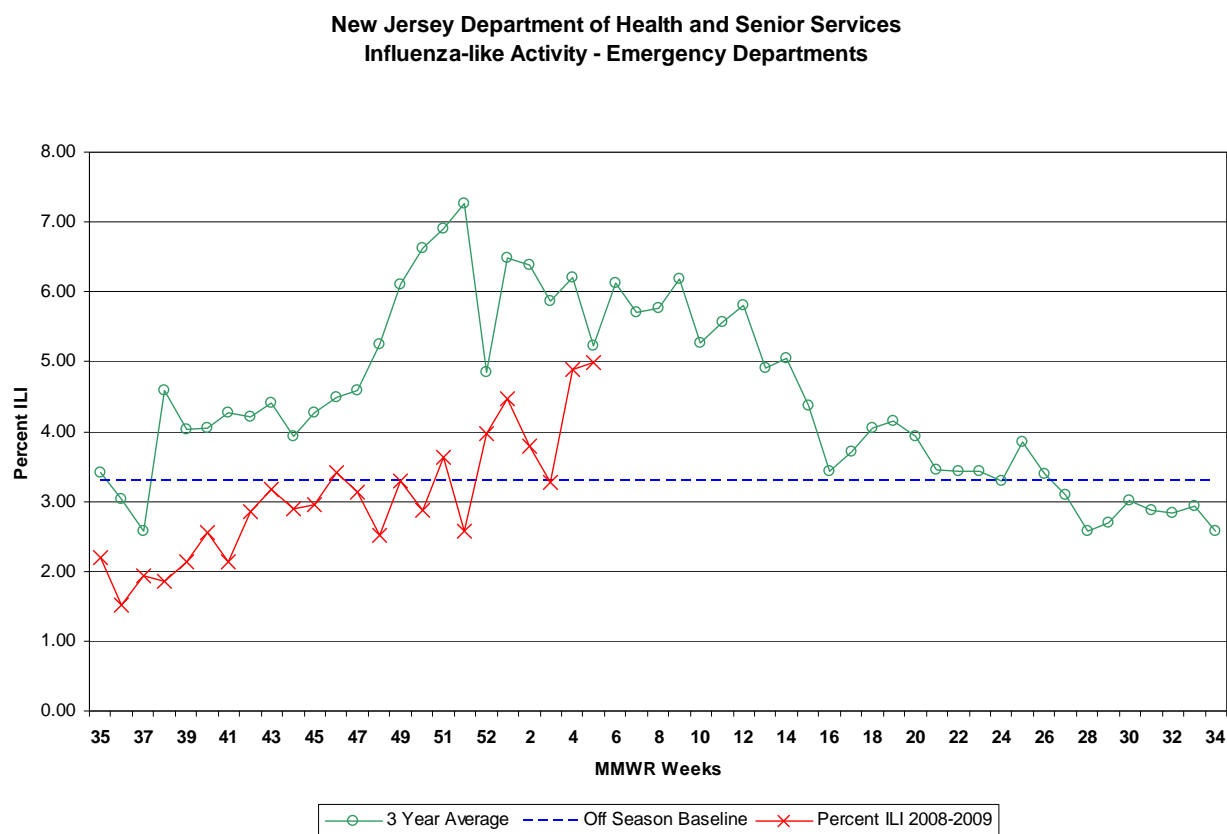
## School Absenteeism

During week 5, schools reported 5.95% absenteeism. This is an increase over the previous week (5.35%). The percent ILI for each county ranged from 3.60 to 9.27%. The percent absent for this same week last year was 5.35%. The percent ILI for the northwest (7.46%), central east (6.50%) and the south (6.54%) public health regions were above the state baseline (5.17%).



## Emergency Departments

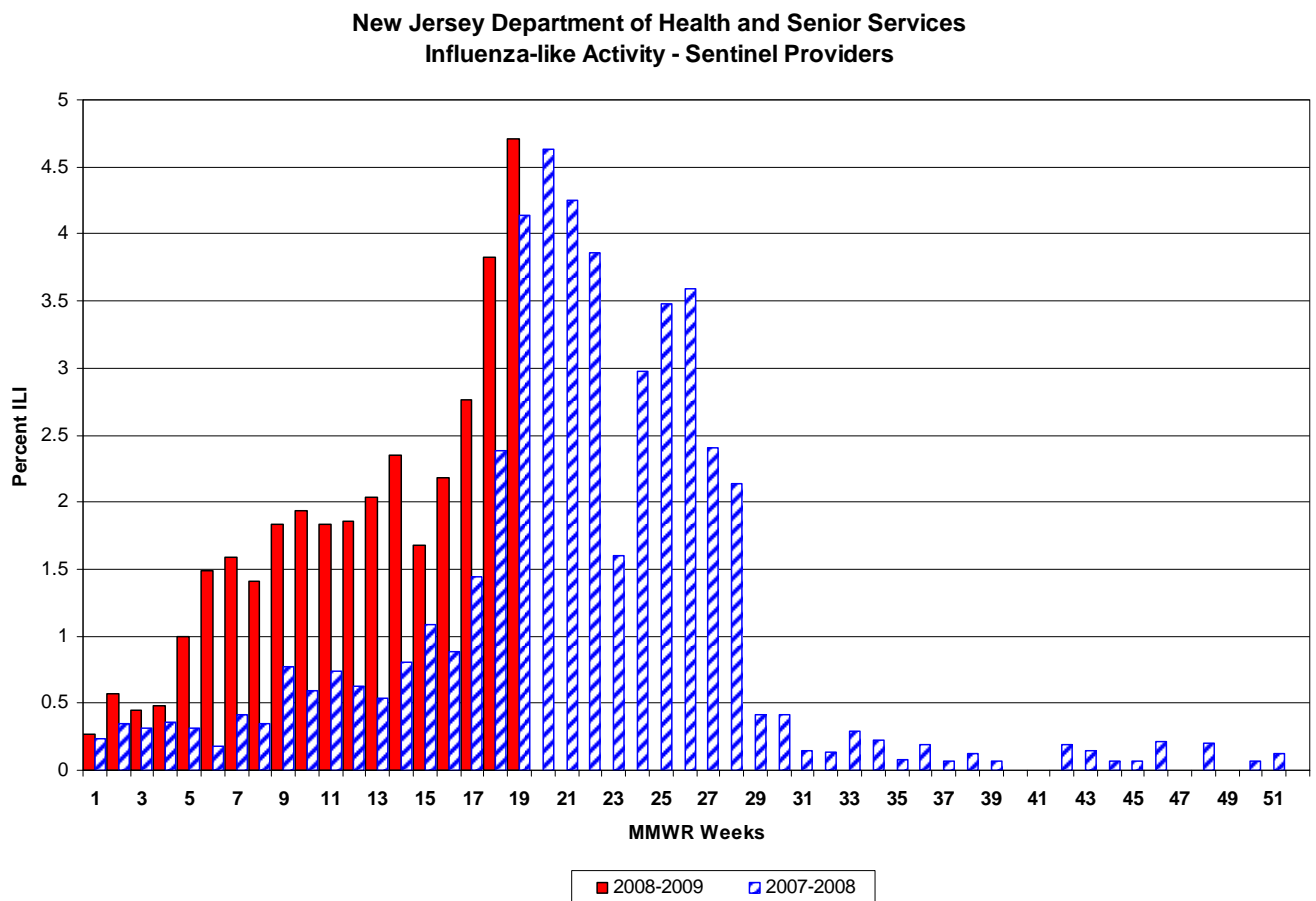
During week 5, 4.99% of ILI was reported statewide from emergency departments. This is an increase over the previous week (4.89%). The percent ILI for each county ranged from 0.00 to 18.97%. The percent ILI for this same week last year was 5.11% in emergency departments. The percent ILI for the northwest (4.96%), northeast (5.63%), central west (6.03%), central east (5.64%), and south (3.45%) public health regions were above the state baseline (2.60%).



## **Sentinel Provider Surveillance**

During week 5, 4.71% of sentinel provider patient visits were due to ILI. These data reflect reports from thirteen (29%) of the enrolled sentinel providers.

During week 4, 3.83% of sentinel provider patient visits were due to ILI. These data reflect reports from twenty-one (48%) of the enrolled sentinel providers.



## **Pediatric Influenza Surveillance**

To date, NJDHSS has received eleven reports of pediatric illness meeting the case definition. No deaths have been reported as of week 4.

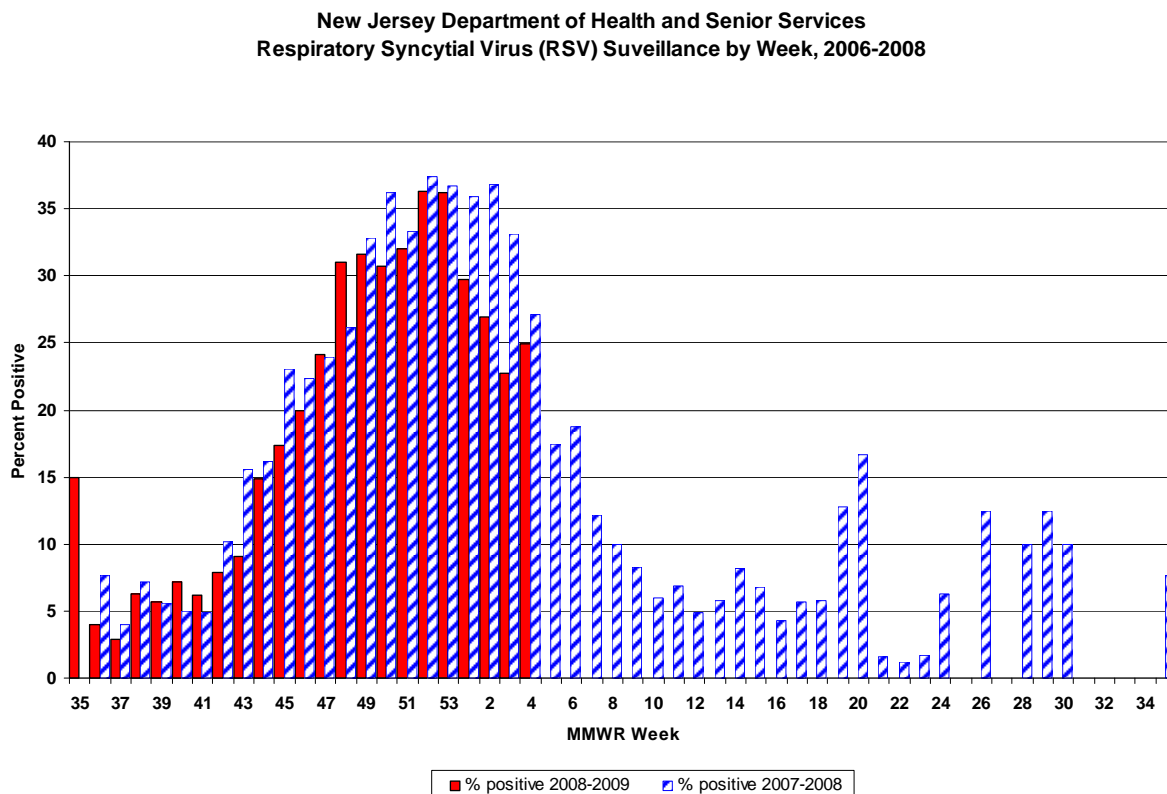
## **122 City Mortality Report**

During week 4, 4.96% of all deaths reported by the vital statistics offices in 5 New Jersey cities (i.e., Camden, Elizabeth, Newark, Paterson, Trenton) were due to pneumonia or influenza. This is a decrease over the previous week (6.02%). The percentage of death due to pneumonia or influenza for this same week last year was 10.49%.



## **RSV Reports**

During week 4, 24.91% of all RSV samples tested were positive. This is an increase over the previous week 22.73%. The percent of samples positive for RSV for this same week last year was 27.17%.



## **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/>

\* Off Season baseline is calculated by taking the average of statewide percentages of ILI for a 3 year (2006, 2007,2008) period during months when influenza is less likely to be circulating (May-August).

\*\*Three year average is an average of the 2005-2006, 2006-2007, 2007-2008 influenza seasons.

**NOTE:** CDC classifies the beginning of the MMWR year using the day of the week January 1 falls. Since January 1, 2009 fell on Thursday, the week ending January 3, 2009 is classified as Week 53. Since Week 53 has not been used for the past 3 influenza seasons, an average of weeks 51, 52, 1 and 2 was used to estimate data reported for week 53 in the past 3 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	4	2	1.13	18	16	7.16	4	4	3.64	4	27
BERGEN	3	0	0.00	25	15	6.05	6	0	0.00	8	25
BURLINGTON	6	0	0.00	115	65	5.92	3	2	0.36	6	10
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	12	47
CAPE MAY	6	5	0.36	11	10	7.38	1	1	13.21	2	6
CUMBERLAND	6	2	1.56	18	8	9.19	3	3	6.84	2	11
ESSEX	18	2	4.11	34	5	3.89	11	5	7.18	10	48
GLOUCESTER	5	5	0.23	1	1	5.71	2	2	0.33	7	12
HUDSON	10	1	1.57	92	57	4.76	6	2	0.55	4	25
HUNTERDON	4	4	0.00	8	8	3.94	1	1	2.33	8	14
MERCER	11	8	0.00	26	21	4.66	5	4	6.69	13	37
MIDDLESEX	2	1	0.00	89	25	4.82	5	1	5.48	17	97
MONMOUTH	14	3	0.60	24	18	8.12	5	4	2.73	12	49
MORRIS	2	0	0.00	13	12	3.60	4	1	2.02	18	41
OCEAN	6	0	0.00	20	18	9.27	4	3	3.92	4	18
PASSAIC	9	3	1.72	23	11	8.32	6	0	0.00	5	29
SALEM	4	0	0.00	5	0	0.00	1	1	0.00	1	2
SOMERSET	5	3	2.09	63	18	5.02	2	0	0.00	0	1
SUSSEX	5	5	0.73	22	21	7.99	2	2	2.80	1	7
UNION	4	2	0.19	130	36	5.89	5	5	9.57	3	44
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	3	2.69	21	14	8.22	2	1	18.97	0	0
NW Region	23	11	1.31	79	58	7.46	14	4	4.96	24	77
NE Region	31	3	2.49	151	77	4.86	23	7	5.63	22	98
CW Region	20	15	0.44	97	47	4.69	8	5	6.03	21	52
CE Region	26	6	0.37	263	97	6.50	19	13	5.64	36	208
South Region	38	14	0.78	185	100	6.54	21	13	3.45	34	115
State Total	138	49	0.85	775	379	5.95	85	42	4.99	137	550