

**New Jersey Department of Health and Senior Services**  
**Communicable Disease Service**  
**Influenza Activity Summary**  
**Week Ending December 27, 2008 (MMWR Week 52)**

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

**NOTE:** Two of three reporting parameters are above state baseline. Two counties have 2 of 3 parameters above state baseline and have culture positive samples.

**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

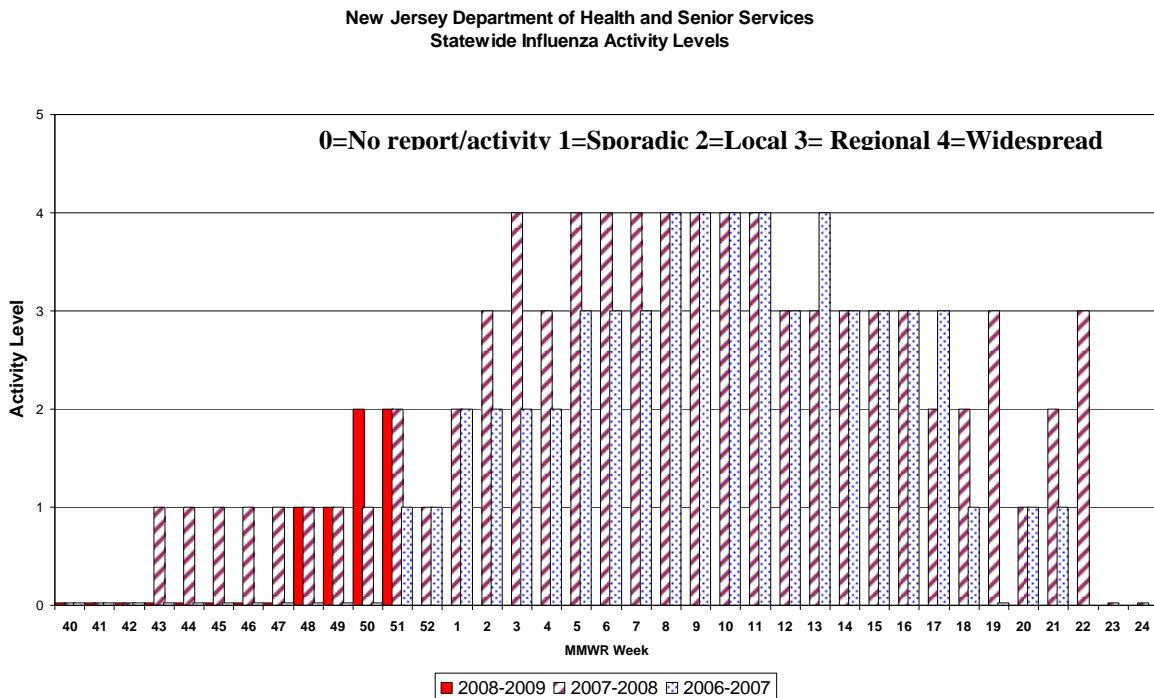
**Local** - At least 2 or 3 parameters above state baseline in a single county **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county

**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

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).



## Regional Data

Region	Counties in Region	Activity Level
NW Region	Morris, Passaic, Sussex, Warren	<b>NO ACTIVITY</b>
NE Region	Bergen, Essex, Hudson	<b>LOCAL</b>
CW Region	Hunterdon, Mercer, Somerset	<b>SPORADIC</b>
CE Region	Middlesex, Monmouth, Ocean, Union	<b>LOCAL</b>
South Region	Atlantic, Burlington, Camden, Cape May, Salem, Cumberland, Gloucester	<b>NO ACTIVITY</b>

### 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 51, eleven samples were found to be positive by viral culture for influenza AH1 and influenza B. Rapid and culture results by county are displayed below.

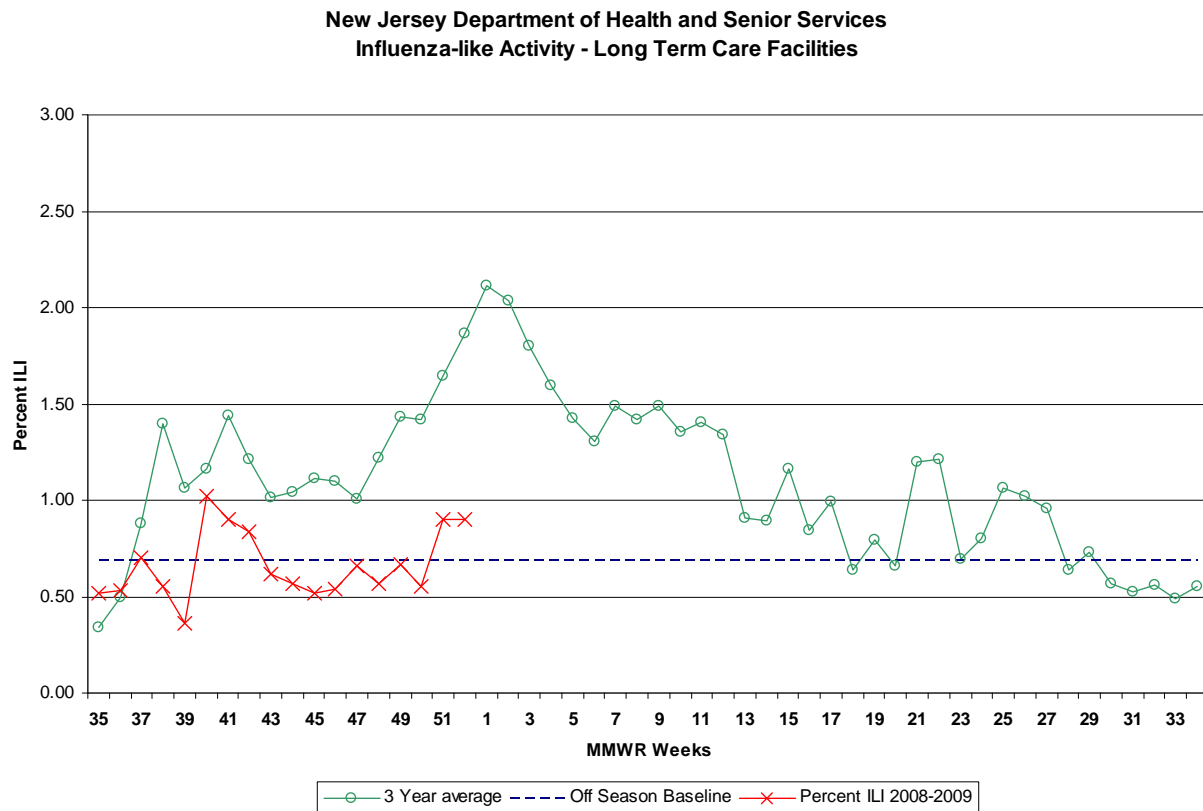
County	Week 40 to Week 51							Week 49, 50, 51						
	Rapid*			Culture*				Rapid*			Culture*			
	A	B	A/B	A H1	A H3	A UNK	B	A	B	A/B	A H1	A H3	A UNK	B
Atlantic County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bergen County	2	0	0	1	0	0	0	2	0	0	1	0	0	0
Burlington County	6	0	0	0	0	0	0	5	0	0	0	0	0	0
Camden County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cape May County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumberland County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Essex County	10	4	4	0	0	0	0	1	0	1	0	0	0	0
Gloucester County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hudson County	1	1	0	1	0	0	0	1	1	0	1	0	0	0
Hunterdon County	0	0	7	4	0	0	0	0	0	6	4	0	0	0
Mercer County	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Middlesex County	1	0	0	3	0	0	0	1	0	0	3	0	0	0
Monmouth County	8	0	3	0	0	0	0	3	0	0	0	0	0	0
Morris County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ocean County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Passaic County	5	1	0	0	0	0	0	3	1	0	0	0	0	0
Salem County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Somerset County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sussex County	3	1	0	0	0	0	0	2	1	0	0	0	0	0
Union County	0	1	0	1	0	0	1	0	0	0	1	0	0	0
Warren County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Total	37	8	14	10	0	0	1	18	2	7	10	0	0	0

\*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.

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

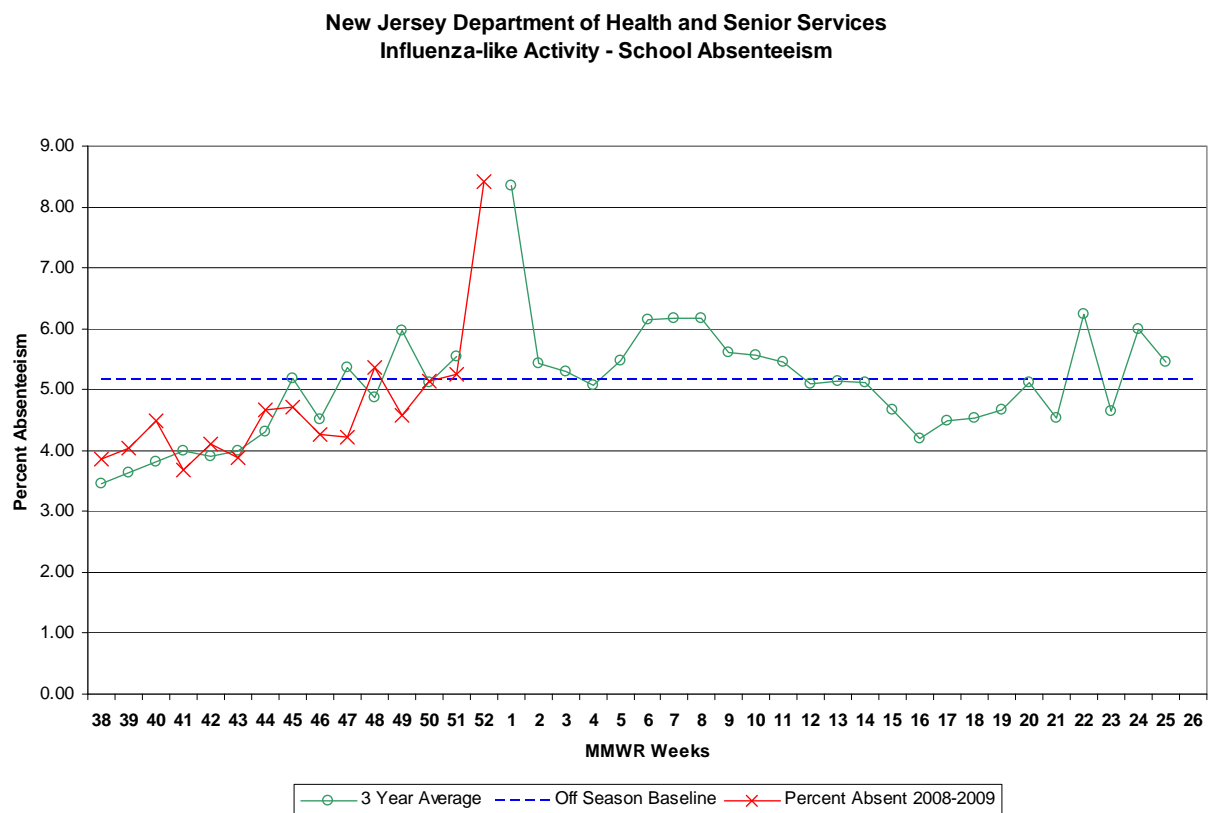
### **Long-term Care Facilities**

During week 52, 0.90% ILI was reported statewide from long term care facilities. The percent ILL remained the same when compared to the previous week (0.90%). The percent ILI for each county ranged from 0.00% to 1.93%. The percent ILI for this same week last year was 1.16% in long-term care facilities. The percent ILI for the northwest (0.90%), northeast (1.85%), south (0.84%) public health region was above the state baseline (0.69%).



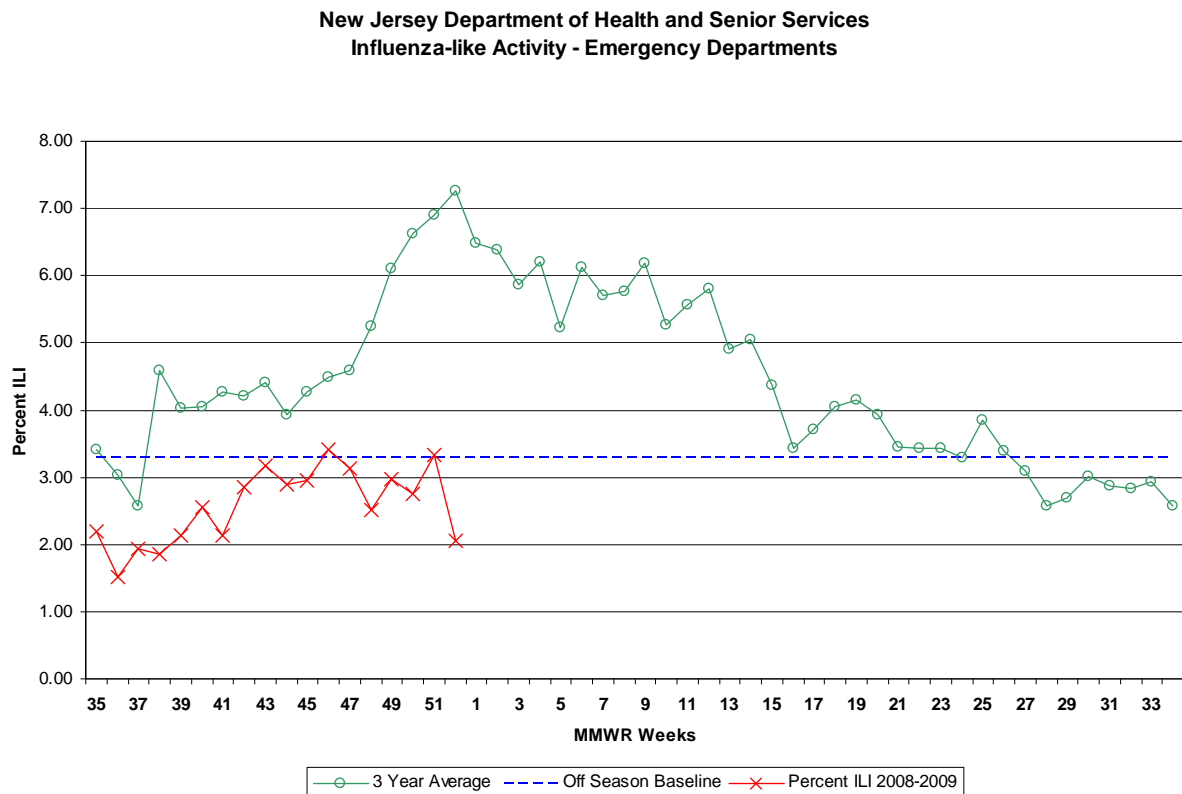
## School Absenteeism

During week 52, schools reported 8.42% absenteeism. This is an increase over the previous week (5.26%). The percent ILI for each county ranged from 1.59 to 12.16%. The percent absent for this same week last year is unavailable due to school closures. The percent ILI for the northwest (7.98%), northeast (6.37%), central west (8.94%), central east (8.47%) and south (8.44%) public health regions were above the state baseline (5.17%). Comments provided with reports suggest absences due to holiday.



## Emergency Departments

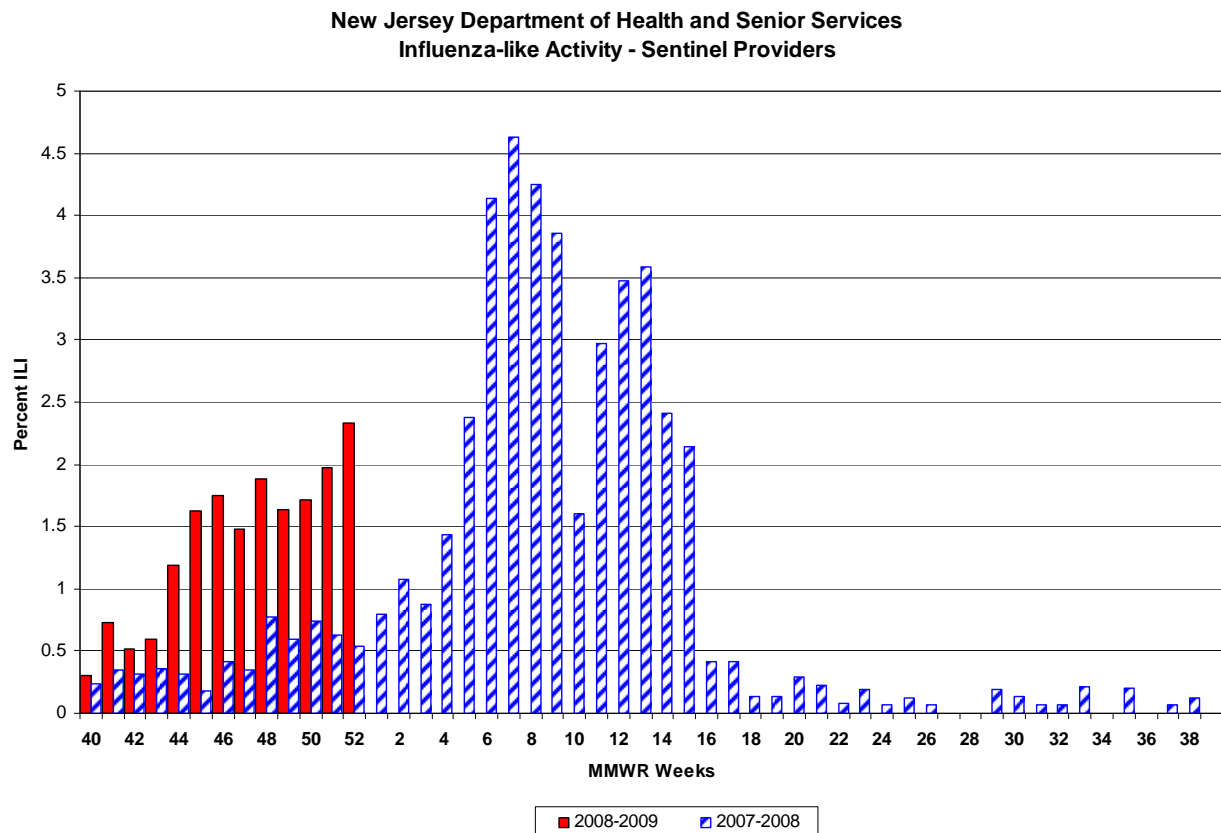
During week 52, 2.05% of ILI was reported statewide from emergency departments. This is a decrease over the previous week (3.33). The percent ILI for each county ranged from 0.00 to 6.66%. The percent ILI for this same week last year was 5.65% in emergency departments. The percent ILI was not above state baseline (2.60%) for any public health region.



## **Sentinel Provider Surveillance**

During week 52, 2.33% of sentinel provider patient visits were due to ILI. These data reflect reports from seven (16%) of the enrolled sentinel providers.

During week 51, 1.97% of sentinel provider patient visits were due to ILI. These data reflect reports from seventeen (39%) of the enrolled sentinel providers.



## **Pediatric Influenza Surveillance**

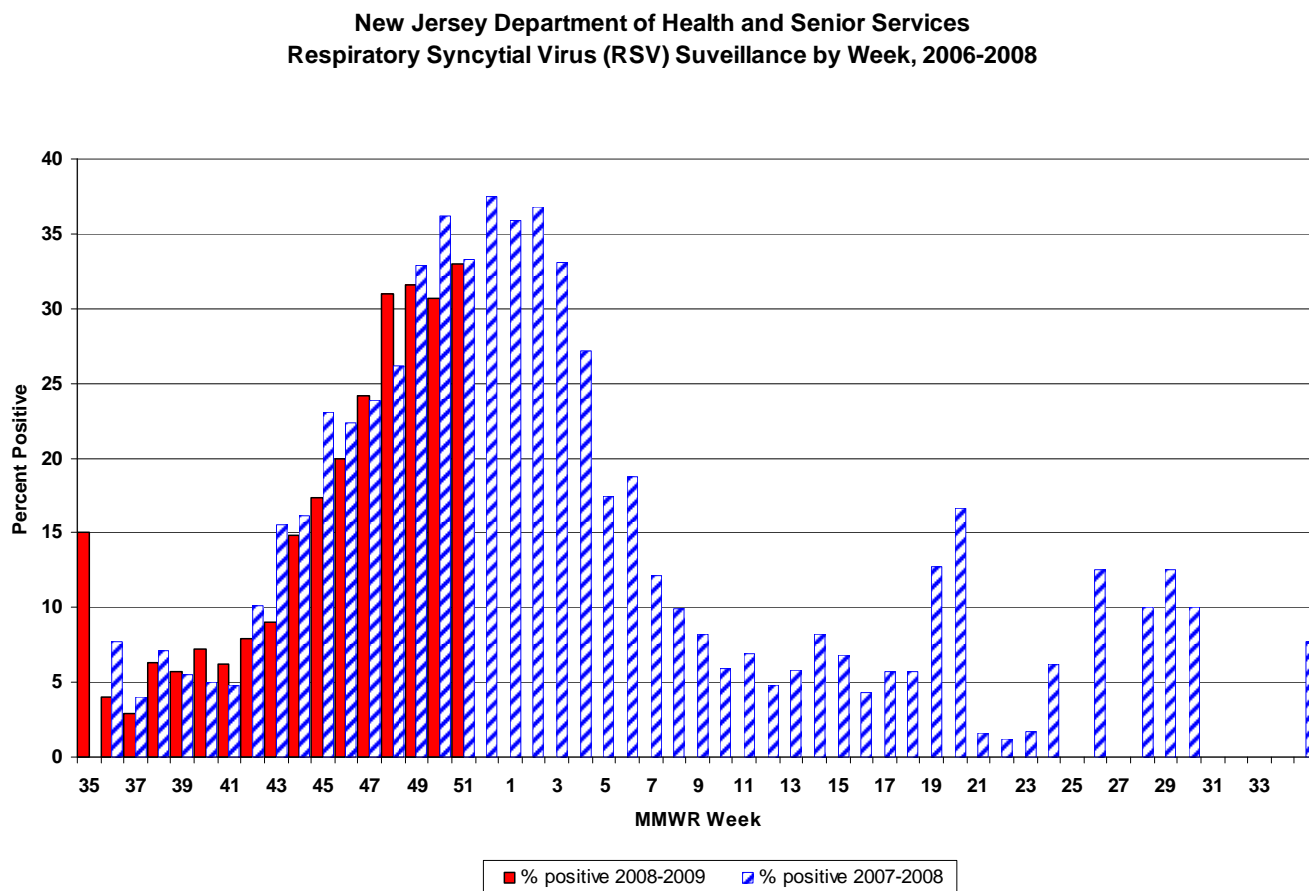
To date, NJDHSS has received six reports of pediatric illness meeting the case definition. No deaths have been reported as of week 52.

## **122 City Mortality Report**

During week 51, 8.39% of all deaths reported by the vital statistics offices in 6 New Jersey cities (i.e., Camden, Elizabeth, Jersey City, Newark, Paterson, Trenton) were due to pneumonia or influenza. This is an increase over the previous week (5.23%). The percentage of death due to pneumonia or influenza for this same week last year was 6.72%.

## **RSV Reports**

During week 51, 32.99% of all RSV samples tested were positive. This is an increase over the previous week 30.69%. The percent of samples positive for RSV for this same week last year was 33.28%.



## **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.



	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	1	0.58	16	12	12.16	4	4	1.91	20	40
BERGEN	3	0	0.00	25	0	0.00	6	0	0.00	6	14
BURLINGTON	6	0	0.00	115	24	1.59	3	0	0.00	15	34
CAMDEN	7	0	0.00	17	0	0.00	7	1	0.00	6	27
CAPE MAY	6	2	1.74	11	1	3.79	1	0	0.00	0	0
CUMBERLAND	6	1	0.62	18	4	9.71	3	3	6.64	8	23
ESSEX	18	3	2.68	34	1	5.23	11	1	3.33	12	47
GLOUCESTER	5	1	0.00	6	1	0.00	2	1	0.00	1	1
HUDSON	10	2	1.47	92	2	6.84	6	1	0.00	8	31
HUNTERDON	4	4	0.68	8	6	4.26	1	1	2.02	2	6
MERCER	11	1	0.00	26	19	10.20	5	1	1.43	1	3
MIDDLESEX	2	0	0.00	89	0	0.00	5	0	0.00	24	73
MONMOUTH	14	1	0.00	24	1	2.24	5	3	0.00	8	47
MORRIS	2	0	0.00	13	8	4.20	4	0	0.00	17	49
OCEAN	6	0	0.00	39	5	8.38	4	0	0.00	3	12
PASSAIC	9	1	0.00	23	3	2.82	6	0	0.00	18	39
SALEM	4	1	0.74	5	0	0.00	1	1	0.00	0	1
SOMERSET	5	0	0.00	63	0	0.00	2	0	0.00	0	0
SUSSEX	5	5	1.10	22	10	11.03	2	2	2.27	2	8
UNION	4	2	0.37	130	12	8.77	5	5	3.29	10	33
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	3	0.38	21	10	7.51	2	0	0.00	0	0
NW Region	23	9	0.90	79	31	7.98	14	2	2.27	37	96
NE Region	31	5	1.85	151	3	6.37	23	2	0.74	26	92
CW Region	20	5	0.57	97	25	8.94	8	2	1.67	3	9
CE Region	26	3	0.28	282	18	8.47	19	8	1.87	45	165
South Region	38	6	0.84	188	42	2.81	21	10	2.46	50	126
State Total	138	28	0.90	797	119	4.80	85	24	2.05	161	488