

**New Jersey Department of Health and Senior Services**  
**Communicable Disease Service**  
**Influenza Activity Summary**  
**Week Ending December 20, 2008 (MMWR Week 51)**

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

**NOTE:** All 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

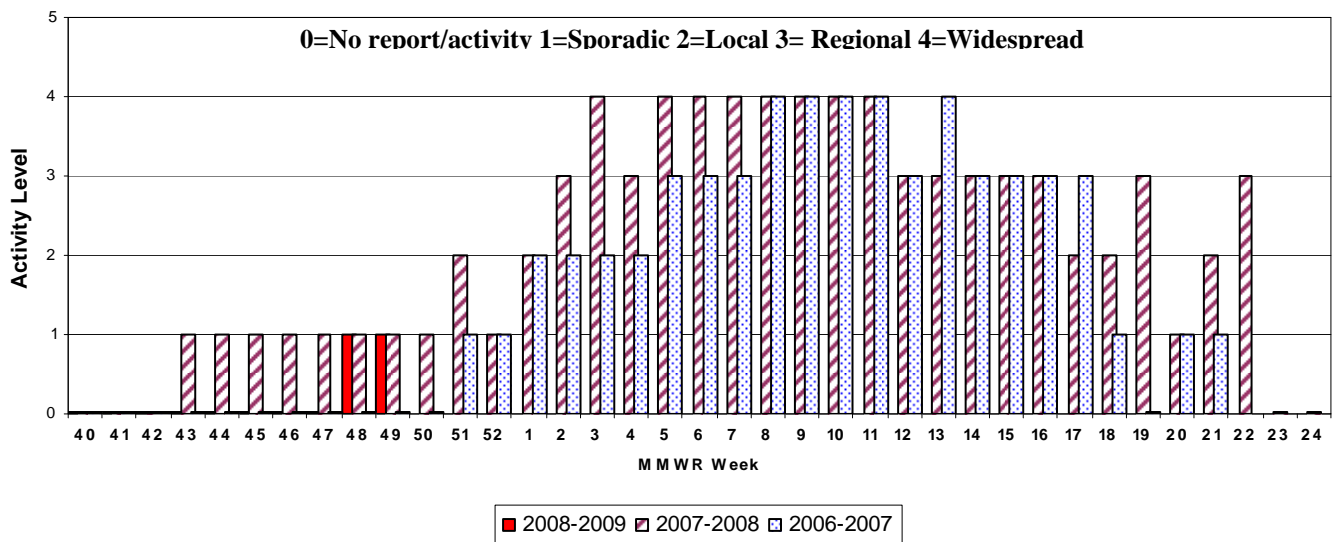
**Regional** - At least 2 of 3 parameters above state baseline in  $\geq 2$  but  $\leq 10$  counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in  $\geq 2$  but  $\leq 10$  counties

**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).

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



## **Regional Data**

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

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

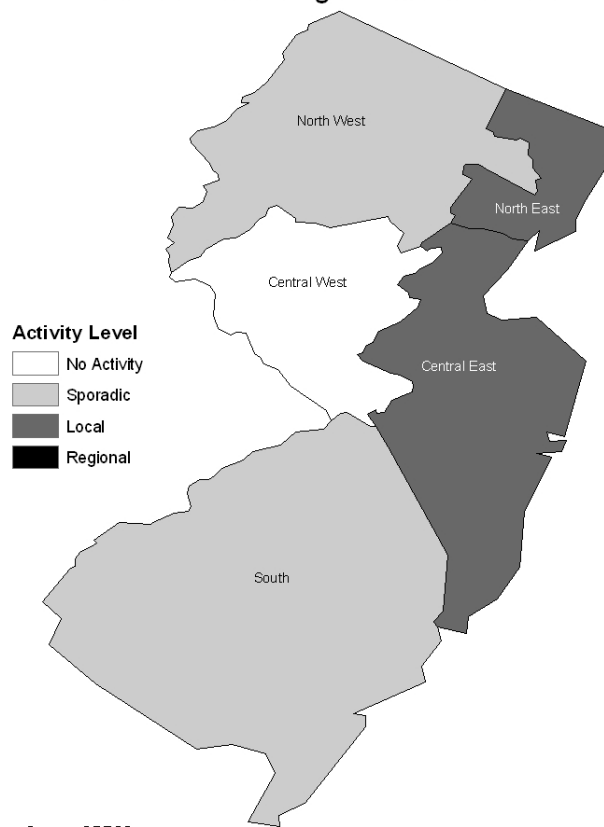
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

Local – At least 2 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**

As of week 50, eight 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 50							Week 48, 49, 50						
	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	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Burlington County	5	0	0	0	0	0	0	4	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	3	0	0	0	0	3	1	0	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	5	2	0	0	0	0	0	4	2	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	4	0	1	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	3	0	0	0	0	0	0	2	0	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	0	0	0	0	0	0	2	0	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	33	6	11	7	0	0	1	18	2	5	7	0	0	0

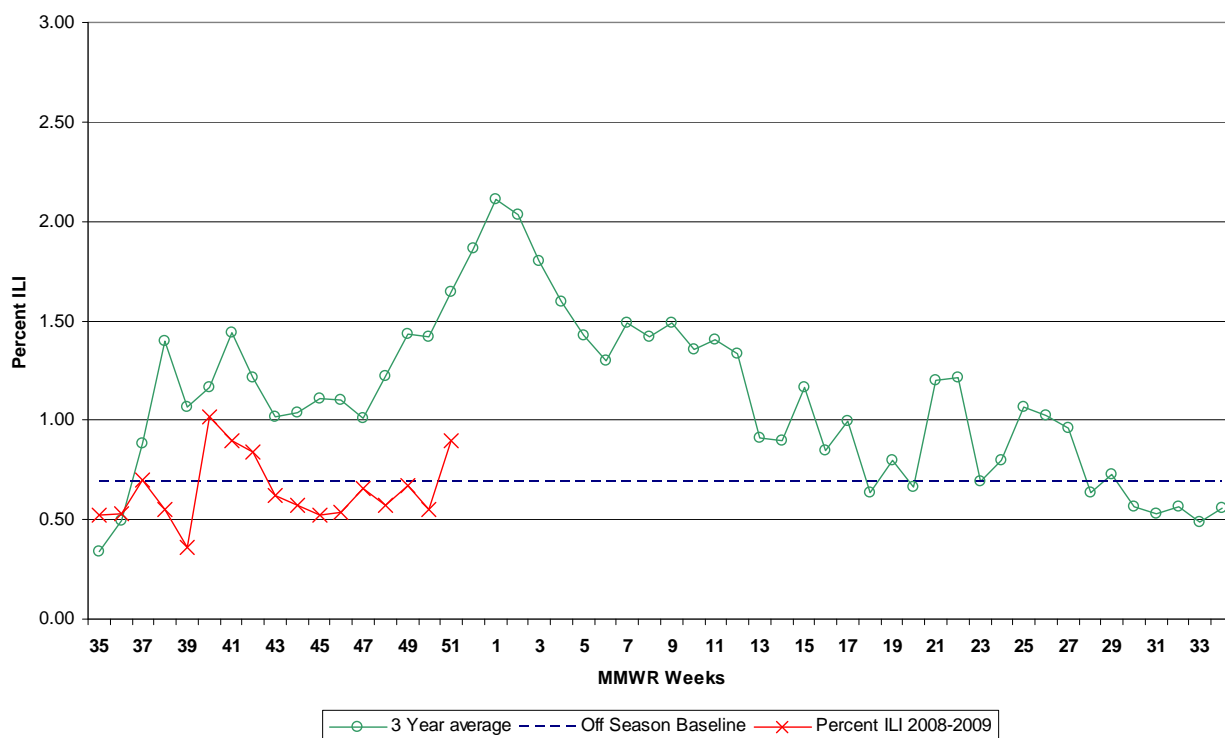
\*Rapid data is acquired from facilities reporting rapid influenza tests via NREVSS or CDRSS ILI module. Culture results are obtained from the LIMS system at PHEL, hospital viral culture laboratories via NREVSS or commercial laboratories reporting in CDRSS.

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

### Long-term Care Facilities

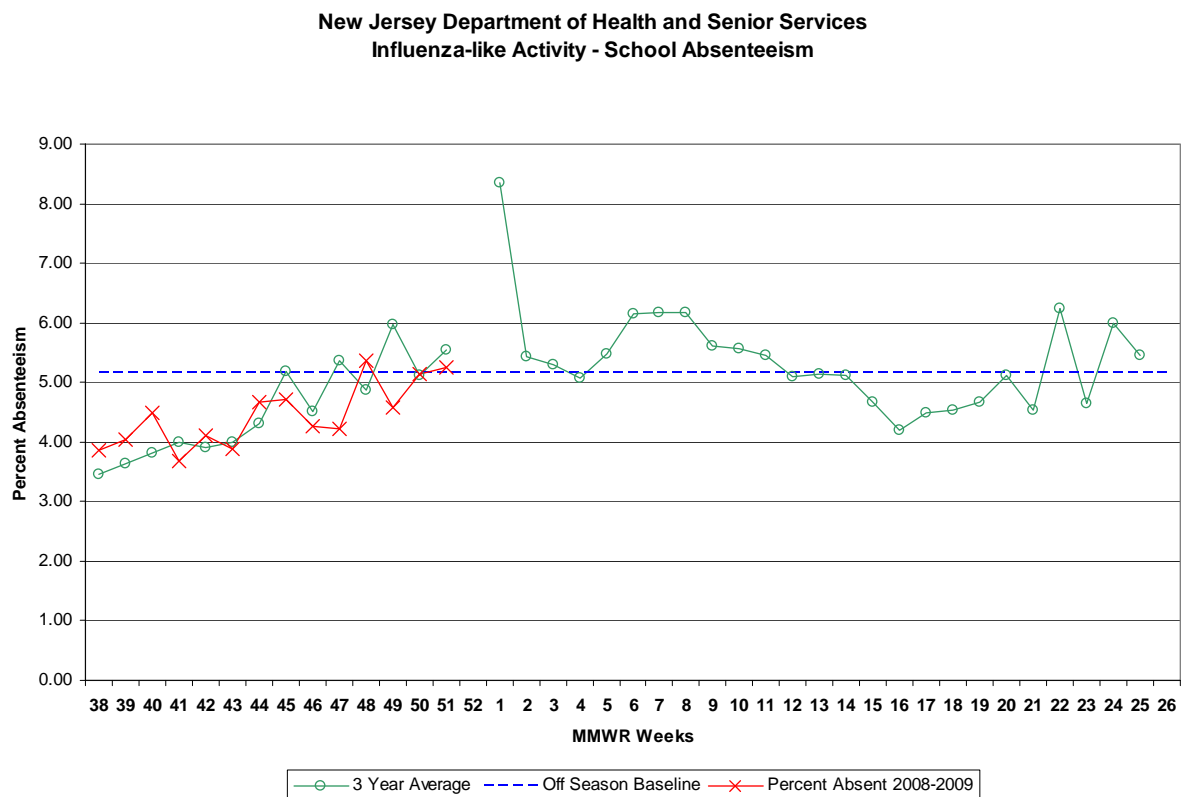
During week 51, 0.90% ILI was reported statewide from long term care facilities. This is an increase over the previous week (0.55%). The percent ILI for each county ranged from 0.00% to 1.93%. The percent ILI for this same week last year was 0.96% in long-term care facilities. The percent ILI for the northwest (0.77%), northeast (1.79%), central east (1.11%) and central west (1.00%) public health region was above the state baseline (0.69%). No reports of respiratory outbreaks in long term care facilities were received in week 51.

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



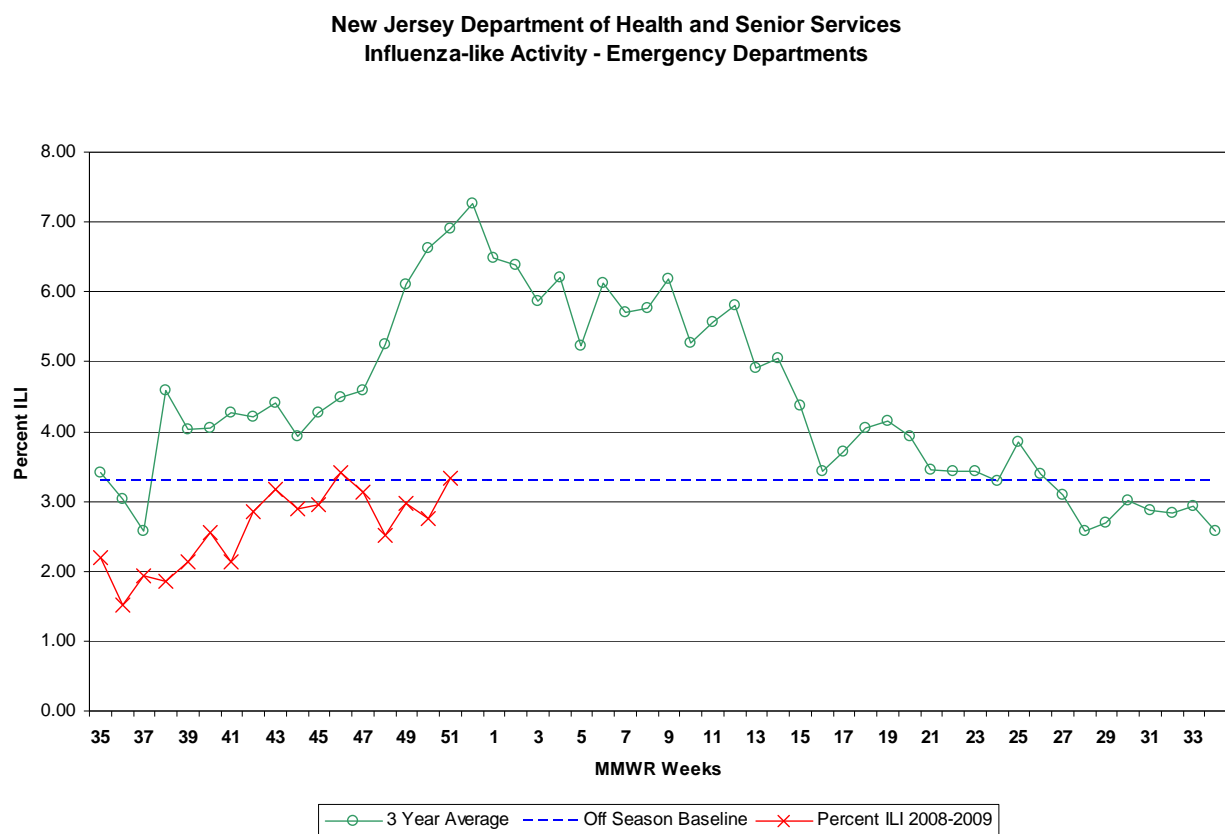
## School Absenteeism

During week 51, schools reported 5.26% absenteeism. This is an increase over the previous week (5.14%). The percent ILI for each county ranged from 2.82 to 7.50%. The percent absent for this same week last year was 5.35%. The percent ILI for the northwest (5.45%), northeast (5.68%), central east (1.11%) and south (5.20%) public health regions were above the state baseline (5.17%).



## Emergency Departments

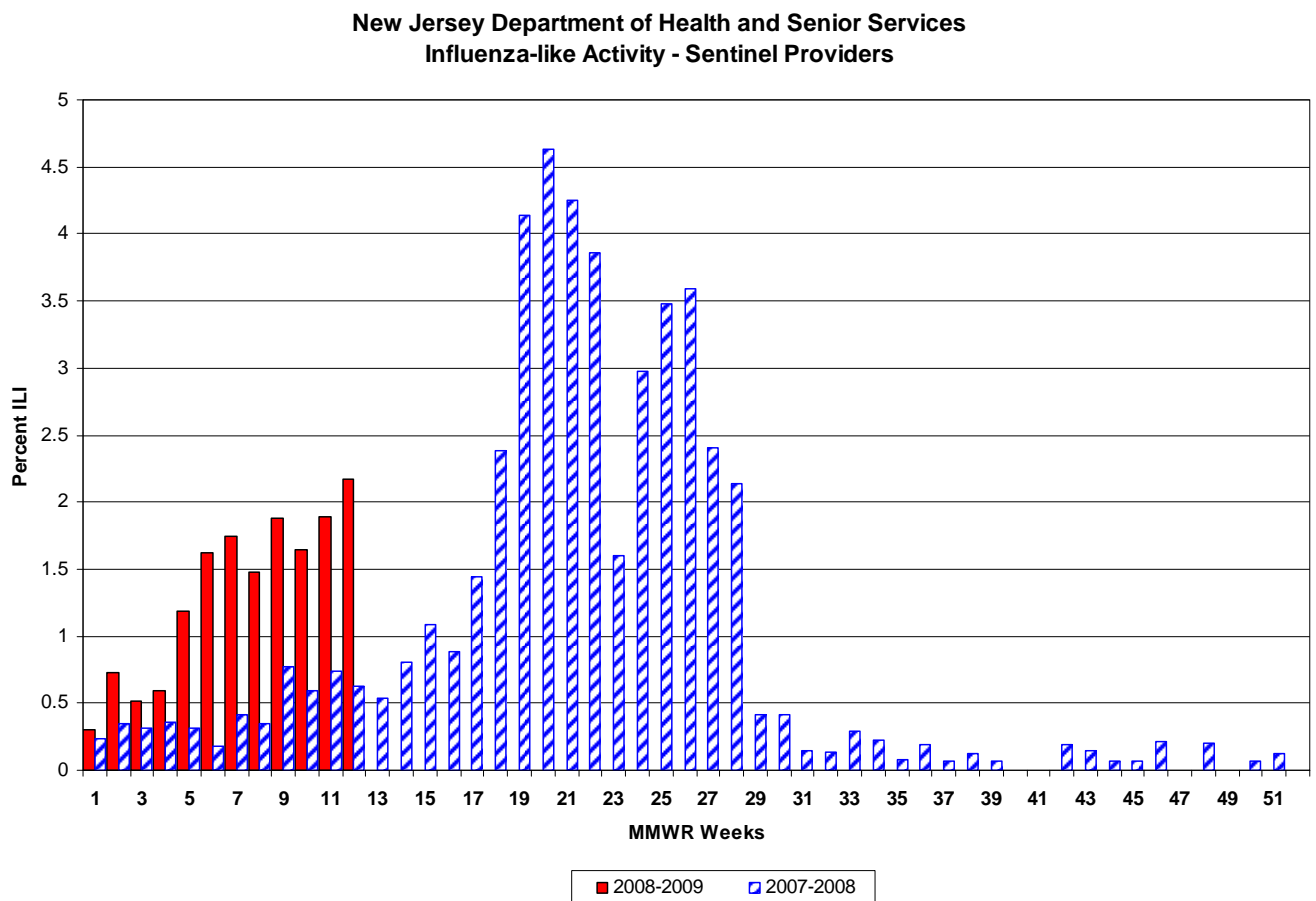
During week 51, 3.33% of ILI was reported statewide from emergency departments. This is an increase over the previous week (2.76). The percent ILI for each county ranged from 0.00 to 9.77%. The percent ILI for this same week last year was 5.12% in emergency departments. The percent ILI for the northwest (4.00%), northeast (3.21%) central east (5.67%), and south (2.79%) public health regions were above the state baseline (2.60%).



## **Sentinel Provider Surveillance**

During week 51, 2.17% of sentinel provider patient visits were due to ILI. These data reflect reports from nine (20%) of the enrolled sentinel providers.

During week 50, 1.89% of sentinel provider patient visits were due to ILI. These data reflect reports from seventeen (39%) of the enrolled sentinel providers.



## **Pediatric Influenza Surveillance**

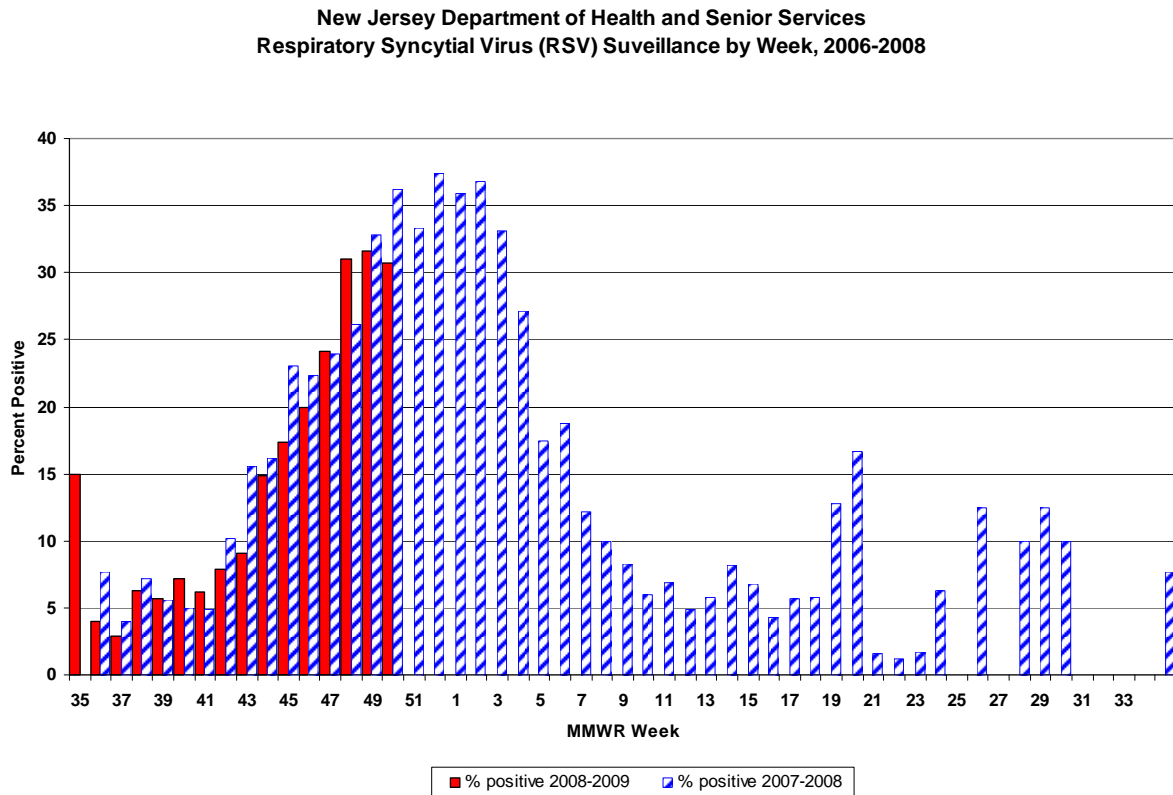
To date, NJDHSS has received five reports of pediatric illness meeting the case definition. No deaths have been reported as of week 50.

## **122 City Mortality Report**

During week 50, 5.23% 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 a decrease over the previous week (3.42%). The percentage of death due to pneumonia or influenza for this same week last year was 5.61%.

## **RSV Reports**

During week 50, 30.69% of all RSV samples tested were positive. This is an increase over the previous week 31.58%. The percent of samples positive for RSV for this same week last year was 36.19%.



## **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	0	0.00	16	2	6.13	4	4	2.17	15	35
BERGEN	3	0	0.00	25	0	0.00	6	0	0.00	7	42
BURLINGTON	6	3	0.00	115	64	5.03	3	3	2.57	8	17
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	0	0
CAPE MAY	6	6	1.53	11	9	5.82	1	1	5.56	1	5
CUMBERLAND	6	3	1.30	18	8	6.34	3	3	6.95	10	14
ESSEX	18	2	1.57	34	5	2.85	11	4	3.68	9	42
GLOUCESTER	5	4	1.05	6	1	0.00	2	2	0.00	1	8
HUDSON	10	2	1.93	92	55	5.83	6	2	2.12	6	28
HUNTERDON	4	4	0.67	8	8	3.10	1	1	0.00	2	4
MERCER	11	5	0.00	26	21	4.24	5	3	1.49	21	47
MIDDLESEX	2	0	0.00	89	0	0.00	5	0	0.00	3	12
MONMOUTH	14	3	1.11	24	12	7.50	5	3	0.42	8	28
MORRIS	2	0	0.00	13	12	3.33	4	1	1.06	3	16
OCEAN	6	0	0.00	39	1	2.82	4	0	0.00	0	0
PASSAIC	9	2	0.39	23	7	5.56	6	0	0.00	16	51
SALEM	4	1	0.00	5	0	0.00	1	1	0.00	0	0
SOMERSET	5	2	0.41	63	16	3.83	2	0	0.00	1	2
SUSSEX	5	5	1.08	22	21	6.16	2	2	1.92	1	10
UNION	4	0	0.00	130	17	6.54	5	3	9.30	4	17
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	3	0.29	21	13	5.86	2	2	9.77	0	0
NW Region	23	10	0.77	79	53	5.45	14	5	4.00	20	77
NE Region	31	4	1.79	151	60	5.68	23	6	3.21	22	112
CW Region	20	11	0.34	97	45	3.91	8	4	1.15	24	53
CE Region	26	3	1.11	282	30	6.95	19	6	5.67	15	57
South Region	38	17	1.00	188	84	5.20	21	14	2.79	35	79
State Total	138	45	0.90	797	272	5.26	85	35	3.33	116	378