

**New Jersey Department of Health and Senior Services**  
**Communicable Disease Service**  
**Influenza Activity Summary**  
**Week Ending April 18, 2009 (MMWR Week 15)**

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

Two of three reporting parameters were above state baseline. Six counties have 2 of 3 parameters above state baseline and nine counties have had culture positive samples in the last 3 weeks. Three 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

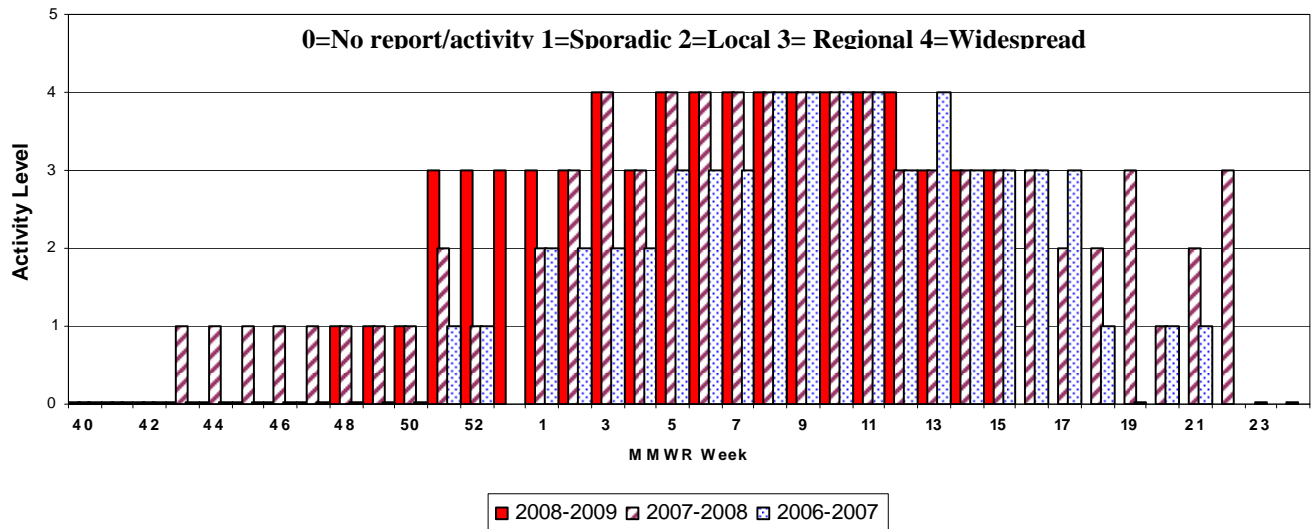
Regional – At least 2 of 3 parameters above state baseline in  $\geq 2$  but  $\leq 10$  counties **AND** laboratory confirmed cases from these same counties in the past 3 weeks **OR** confirmed outbreaks institutions in  $\geq 2$  but  $\leq 10$  counties

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>SPORADIC</b>
NE Region	Bergen, Essex, Hudson	<b>SPORADIC</b>
CW Region	Hunterdon, Mercer, Somerset	<b>SPORADIC</b>
CE Region	Middlesex, Monmouth, Ocean, Union	<b>SPORADIC</b>
South Region	Atlantic, Burlington, Camden, Cape May, Salem, Cumberland, Gloucester	<b>LOCAL</b>

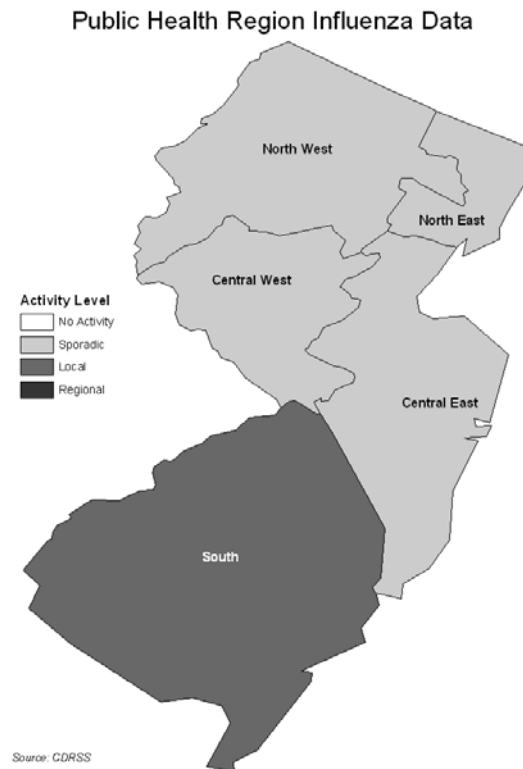
No Activity- At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases in the public health region

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



## Laboratory Surveillance

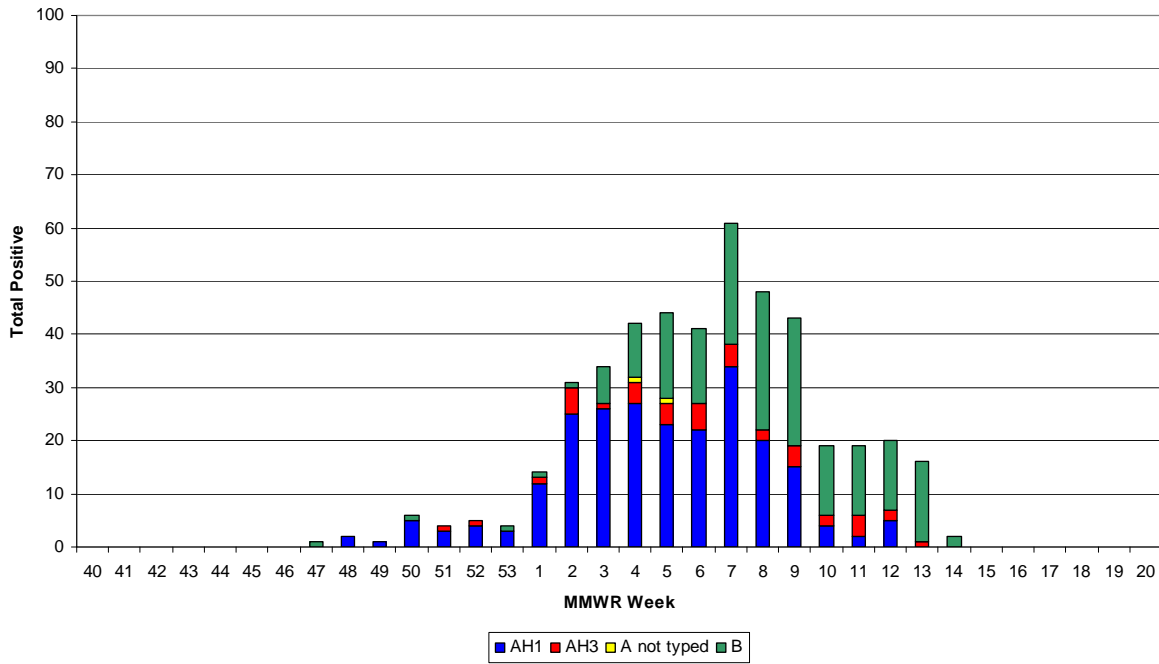
As of week 14, 456 samples were found to be positive by viral culture for influenza AH1, AH3 and influenza B. Rapid and culture results by county are displayed below.

County	Week 40 to Week 14							Week 12, 13, 14						
	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	34	14	0	9	1	0	2	2	1	0	0	0	0	2
Bergen County	24	13	0	11	2	2	7	2	2	0	0	0	0	0
Burlington County	58	21	0	1	0	0	1	9	3	0	0	0	0	0
Camden County	0	0	0	1	0	0	1	0	0	0	0	0	0	0
Cape May County	20	6	0	14	0	0	4	0	1	0	0	0	0	0
Cumberland County	0	0	0	7	0	0	6	0	0	0	0	0	0	1
Essex County	164	60	16	28	7	0	18	8	9	2	0	1	0	5
Gloucester County	0	0	0	5	0	0	12	0	0	0	0	0	0	0
Hudson County	31	9	0	25	3	0	24	1	1	0	2	0	0	11
Hunterdon County	7	0	59	22	5	0	12	3	0	4	0	0	0	0
Mercer County	2	0	0	14	0	0	8	0	0	0	0	0	0	0
Middlesex County	28	2	0	22	5	0	17	2	0	0	1	2	0	5
Monmouth County	57	23	67	13	3	0	8	21	11	4	0	0	0	1
Morris County	0	0	0	17	1	0	16	0	0	0	1	0	0	1
Ocean County	0	0	0	1	3	0	1	0	0	0	0	0	0	0
Passaic County	49	12	0	4	0	0	7	5	2	0	1	0	0	2
Salem County	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Somerset County	0	0	14	15	5	0	12	0	0	0	0	0	0	0
Sussex County	35	21	0	1	0	0	2	1	0	0	0	0	0	0
Union County	5	3	0	19	6	0	21	0	2	0	0	0	0	2
Warren County	22	13	0	3	0	0	1	1	1	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Total	536	197	156	232	41	2	181	55	33	10	5	3	0	30

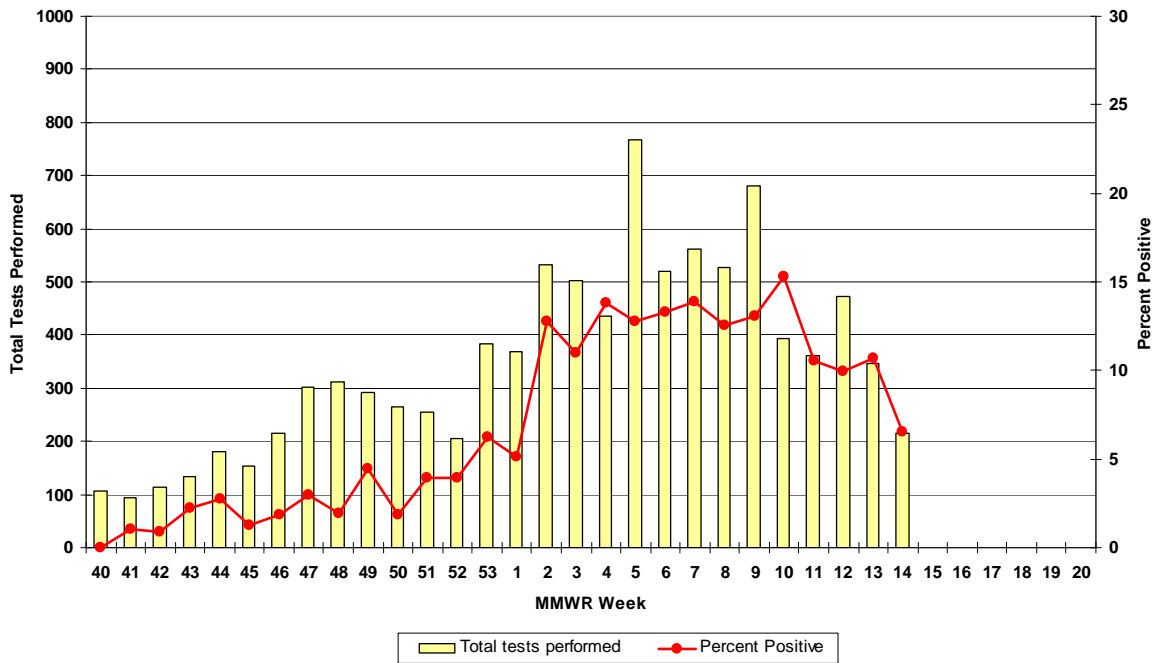
\*Rapid data is acquired from facilities reporting rapid influenza tests via NREVSS or CDRSS ILI module. Culture results are obtained from the LIMS system at PHEL, hospital viral culture laboratories via NREVSS or commercial laboratories reporting in CDRSS. County of residence as provided by the laboratory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

\*\*Thirty (20 AH1, 10 AH3) additional samples were found to positive by PCR but tested negative via culture. These results are not incorporated in the table above.

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



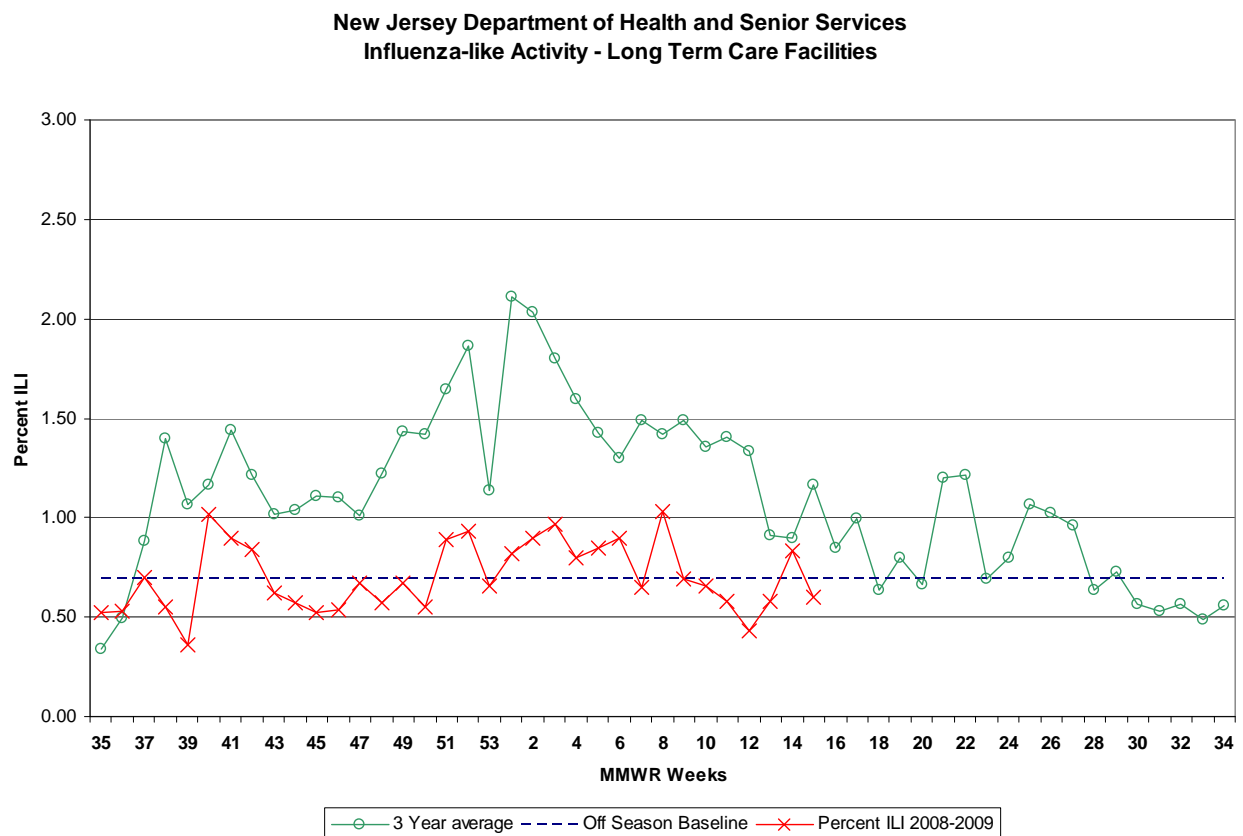
**Influenza Rapid Antigen Tests  
Total and Percent Positive  
2008-2009 Influenza Season**



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

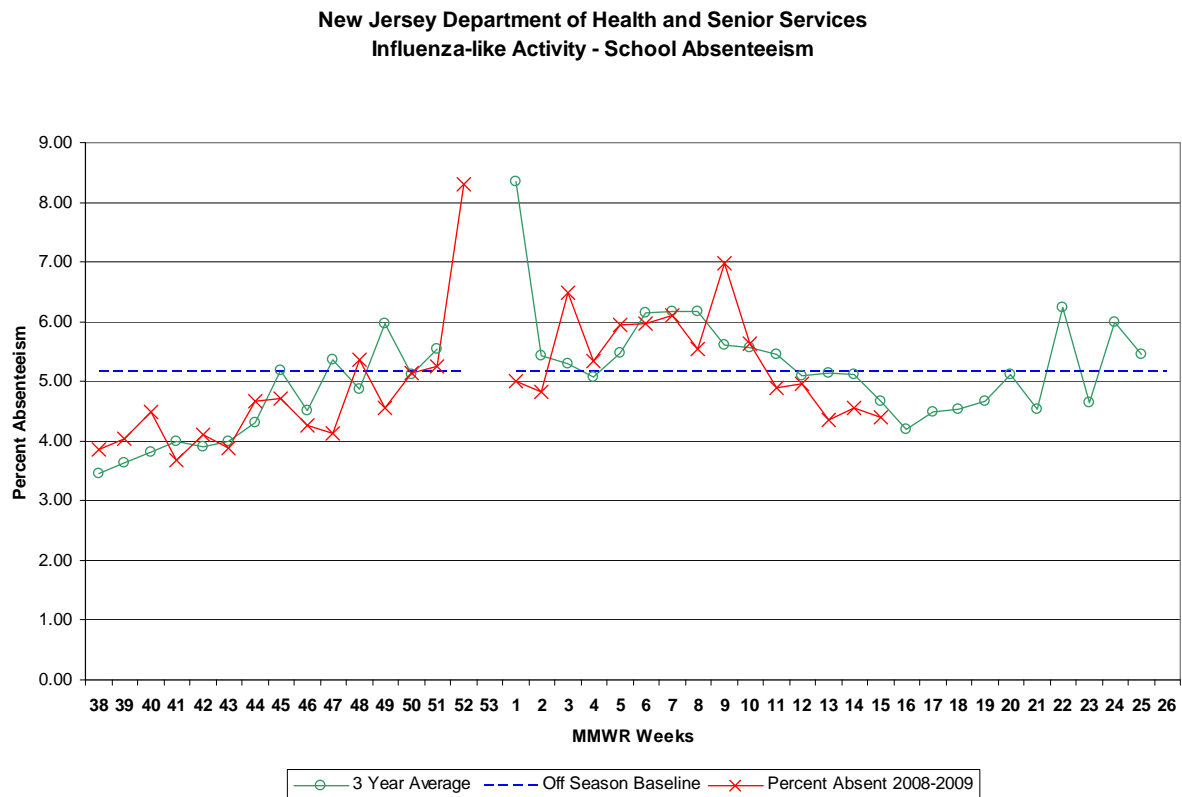
### Long-term Care Facilities

During week 15, 0.69% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (0.83%). The percent ILI for each county ranged from 0.00% to 17.24%. The percent ILI for this same week last year was 0.92% in long-term care facilities. The percent ILI for the northwest (0.80%) and south (0.92%) public health region was above the state baseline (0.69%).



## School Absenteeism

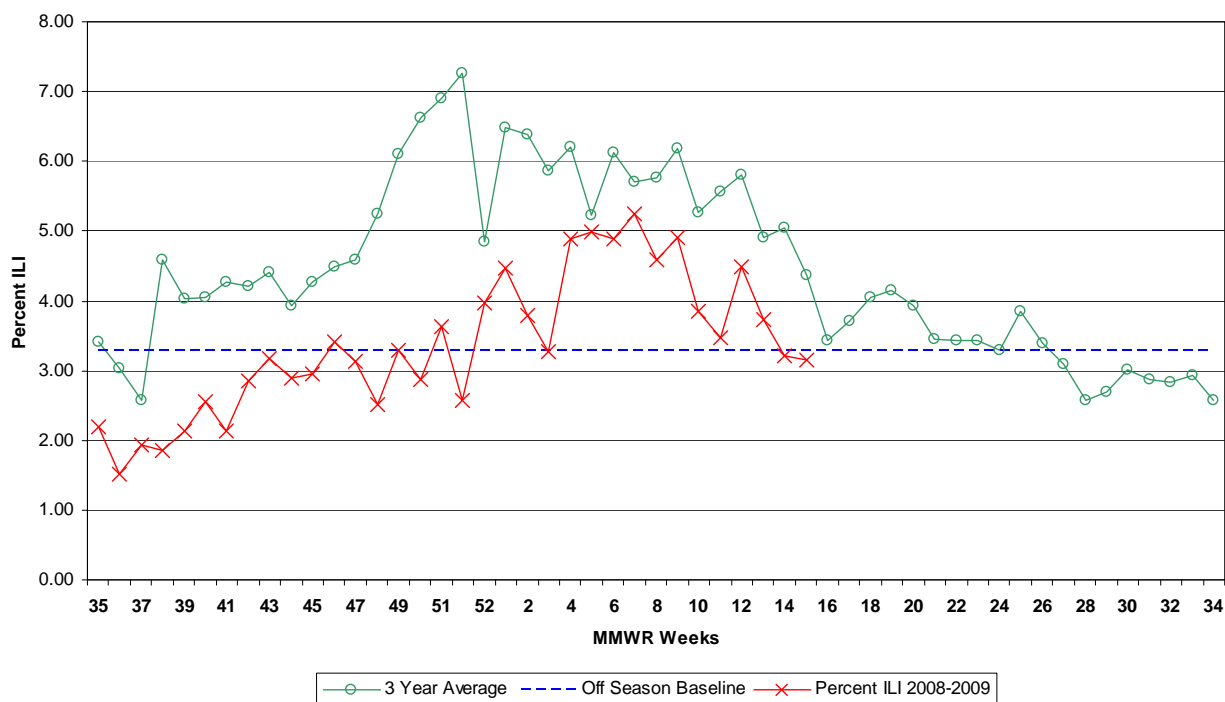
During week 15, schools reported 4.41% absenteeism. This is a decrease over the previous week (4.56%). The percent ILI for each county ranged from 1.93 to 11.12%. The percent absent for this same week last year was 4.68%. The percent absent for the south (9.07%) public health region was above the state baseline (5.17%).



## Emergency Departments

During week 15, 3.15% of ILI was reported statewide from emergency departments. This is a decrease over the previous week (3.21%). The percent ILI for each county ranged from 0.00 to 6.38%. The percent ILI for this same week last year was 3.01% in emergency departments. The percent ILI for the northwest (3.59%), northeast (3.04%), central west (4.47%) and central east (3.40%) public health regions were above the state baseline (2.60%).

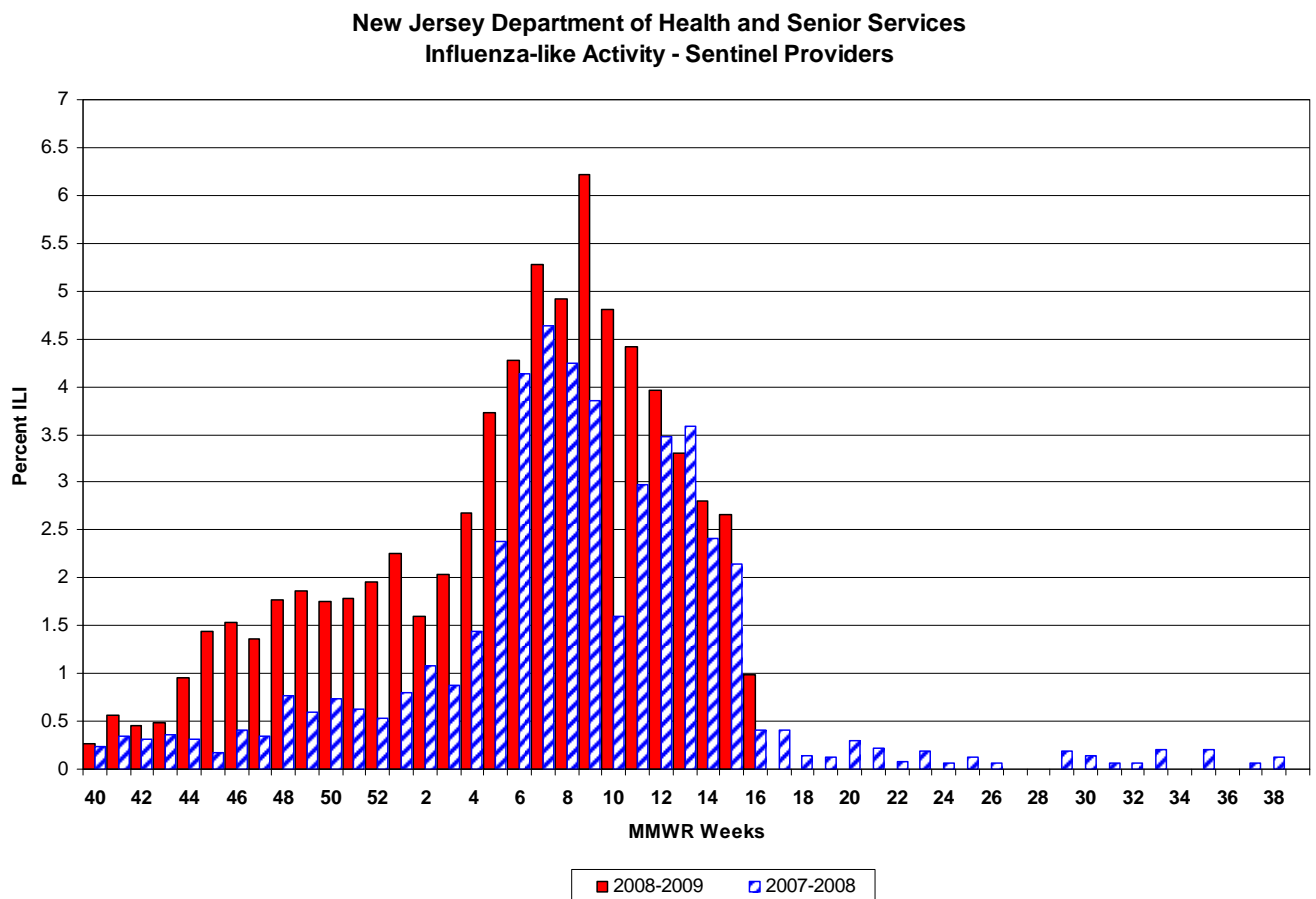
New Jersey Department of Health and Senior Services  
Influenza-like Activity - Emergency Departments



## **Sentinel Provider Surveillance**

During week 15, 0.99% of sentinel provider patient visits were due to ILI. These data reflect reports from six (14%) of the enrolled sentinel providers.

During week 14, 2.66% of sentinel provider patient visits were due to ILI. These data reflect reports from twelve (27%) of the enrolled sentinel providers.



## **Pediatric Influenza Surveillance**

To date, NJDHSS has received twenty-seven reports of pediatric illness. Of these cases, two deaths were reported.

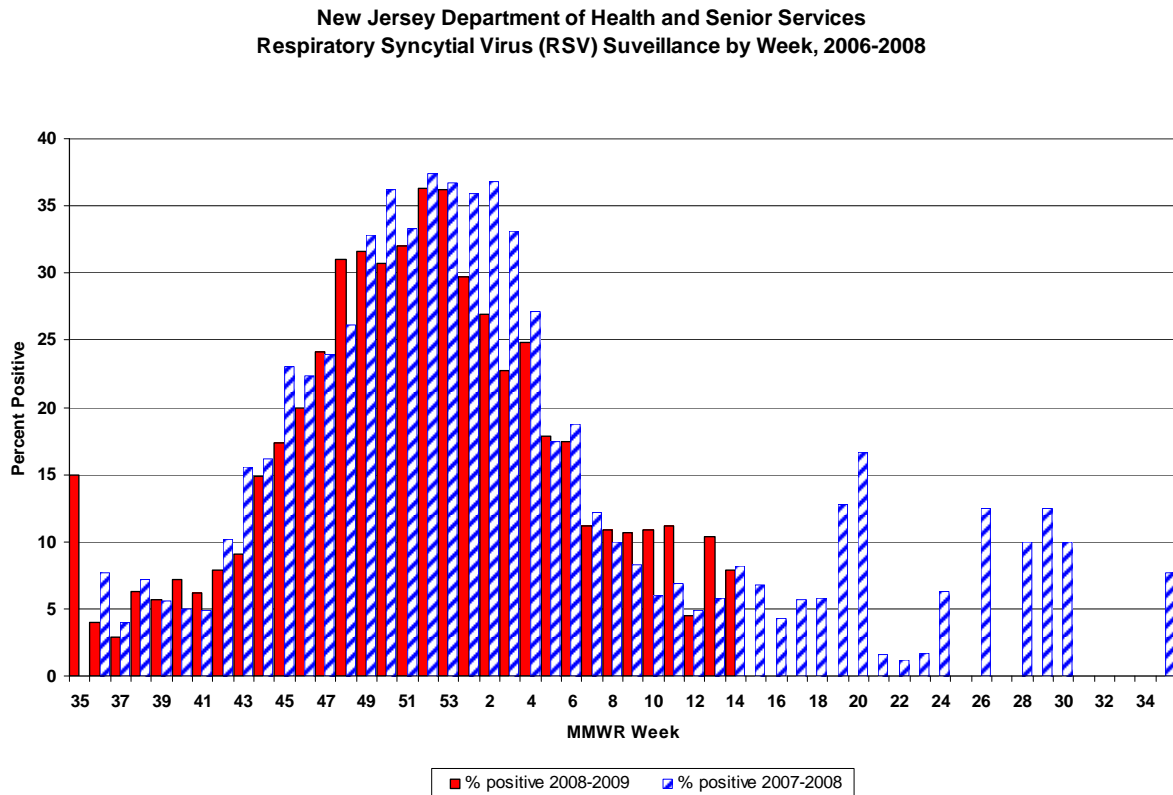
### **122 City Mortality Report**

During week 14, 5.83% of all deaths reported by the vital statistics offices in 6 New Jersey cities (i.e., Camden, Elizabeth, Jersey City, Newark, Paterson) were due to pneumonia or influenza. This is a decrease over the previous week (6.21%). The percentage of death due to pneumonia or influenza for this same week last year was 9.64%.



## **RSV Reports**

During week 14, 7.91% of all RSV samples tested were positive. This is a decrease over the previous week 10.32%. The percent of samples positive for RSV for this same week last year was 8.19%.



## **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.

**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	0	0.00	19	3	11.12	4	1	0.00	5	31
BERGEN	3	0	0.00	25	1	3.14	6	0	0.00	0	0
BURLINGTON	6	3	0.00	115	0	0.00	3	3	1.62	0	8
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	0	0
CAPE MAY	6	2	0.72	11	0	0.00	1	1	6.06	0	4
CUMBERLAND	6	2	2.00	18	0	0.00	3	3	5.93	1	4
ESSEX	18	2	0.00	34	1	3.25	11	4	3.04	2	44
GLOUCESTER	5	4	0.27	4	3	4.59	2	2	0.00	0	0
HUDSON	10	0	0.00	92	0	0.00	6	0	0.00	2	12
HUNTERDON	4	4	0.22	8	0	0.00	1	1	0.00	1	6
MERCER	11	5	0.84	26	12	4.26	5	3	5.40	1	16
MIDDLESEX	2	0	0.00	89	7	4.61	5	0	0.00	2	71
MONMOUTH	14	3	0.00	24	1	2.87	5	3	0.25	3	10
MORRIS	2	0	0.00	13	12	1.93	4	1	1.01	0	0
OCEAN	6	0	0.00	20	0	0.00	4	0	0.00	1	6
PASSAIC	9	4	0.00	23	0	0.00	6	2	4.31	0	19
SALEM	4	1	0.69	5	0	0.00	1	1	0.00	0	1
SOMERSET	5	3	0.93	63	16	3.57	2	0	0.00	0	0
SUSSEX	5	5	0.84	22	0	0.00	2	2	1.80	1	2
UNION	4	2	0.19	130	0	0.00	5	5	5.64	1	19
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	1	17.24	21	4	3.17	2	2	6.38	0	0
NW Region	23	10	0.80	79	16	2.13	14	7	3.59	1	21
NE Region	31	2	0.00	151	2	3.22	23	4	3.04	4	56
CW Region	20	12	0.66	97	28	3.86	8	4	4.47	2	22
CE Region	26	5	0.11	263	8	4.24	19	8	3.40	7	106
South Region	38	12	0.70	189	6	9.07	21	11	2.26	6	48
State Total	138	41	0.60	779	60	4.41	85	34	3.15	20	253