

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending January 10, 2009 (MMWR Week 1)

Influenza Activity Level: **REGIONAL**

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.

One reporting parameters was above state baseline. Three counties have 2 of 3 parameters above state baseline. One of these counties has culture positive samples. Eight other counties have positive influenza cultures but did not have increase in ILI parameters.

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

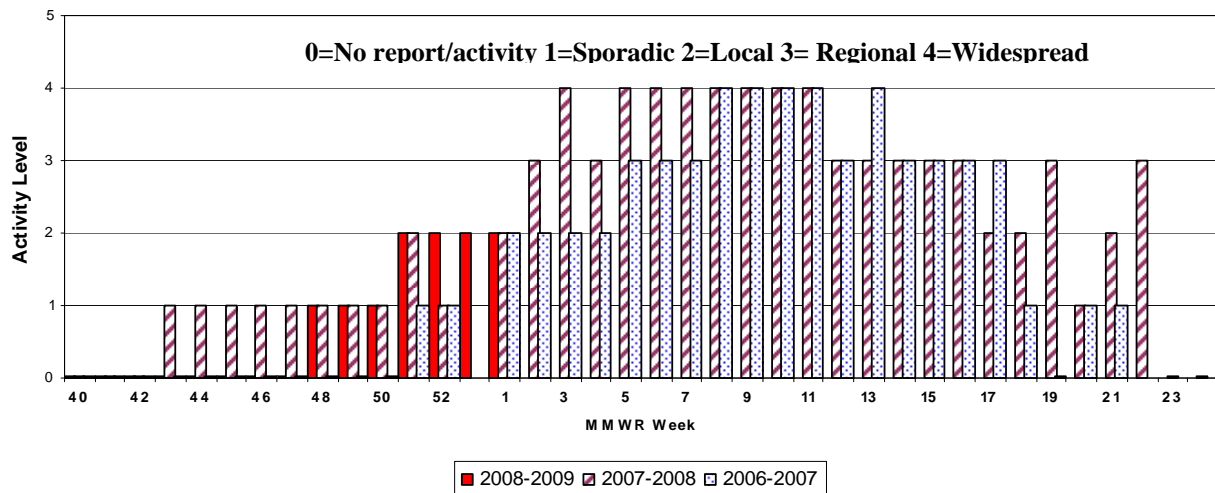
Regional – At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties

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

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 53, twenty 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.

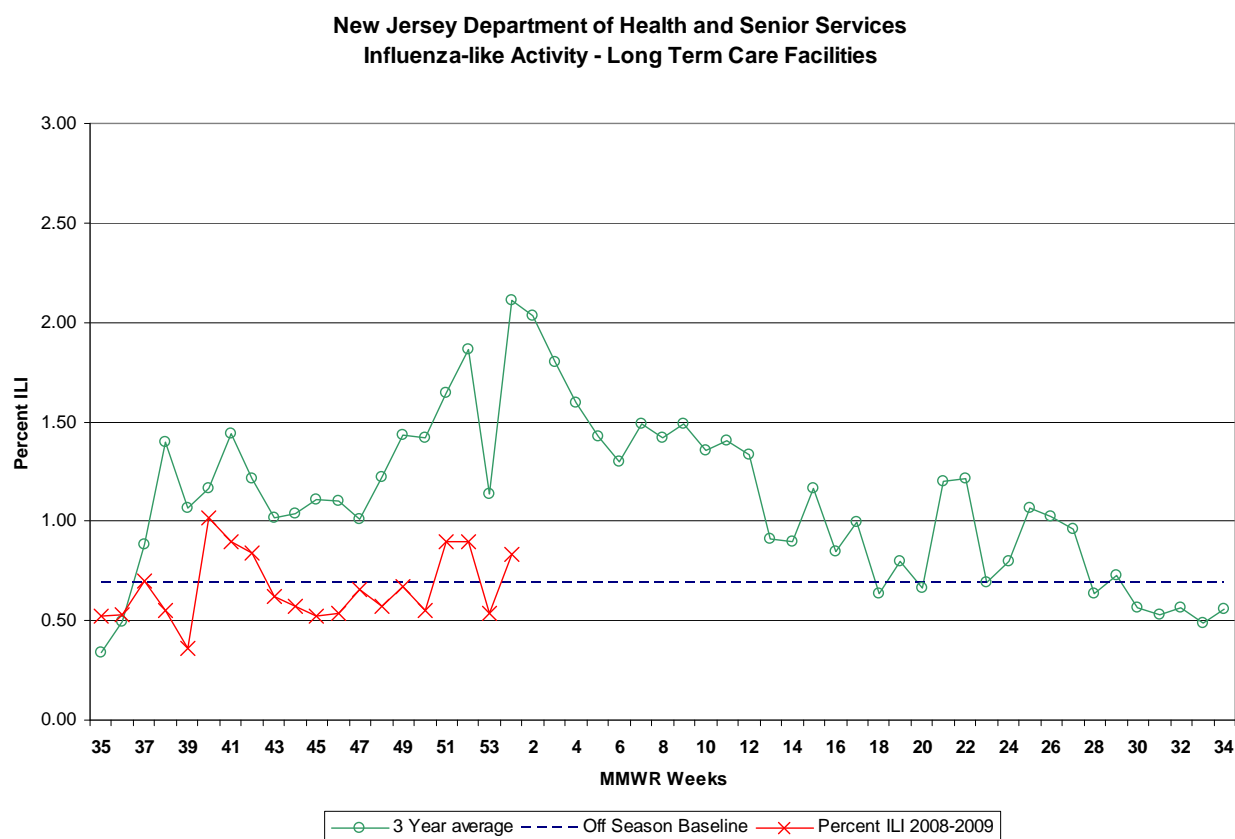
County	Week 40 to Week 53							Week 51, 52, 53						
	Rapid*			Culture*				Rapid*			Culture*			
	A	B	A/B	A H1	A H3	A UNK	B	A	B	A/B	A H1	A H3	A UNK	B
Atlantic County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bergen County	3	0	0	1	0	0	0	2	0	0	1	0	0	0
Burlington County	9	0	0	0	0	0	0	4	0	0	0	0	0	0
Camden County	0	0	0	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	18	8	4	1	1	0	0	8	4	1	1	1	0	0
Gloucester County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hudson County	6	2	0	1	0	0	0	5	1	0	0	0	0	0
Hunterdon County	0	0	8	5	0	0	1	0	0	3	2	0	0	1
Mercer County	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Middlesex County	3	0	0	3	0	0	0	2	0	0	0	0	0	0
Monmouth County	8	0	3	1	1	0	1	0	0	0	1	1	0	0
Morris County	0	0	0	2	0	0	0	0	0	0	2	0	0	0
Ocean County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Passaic County	11	1	0	0	0	0	0	8	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	2	0	0	0	0	0	0	2	0	0	0	0	0
Union County	1	1	0	1	0	0	1	1	0	0	0	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	63	14	15	15	2	0	3	30	8	4	7	2	0	1

*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-like Illness (ILI) Surveillance*

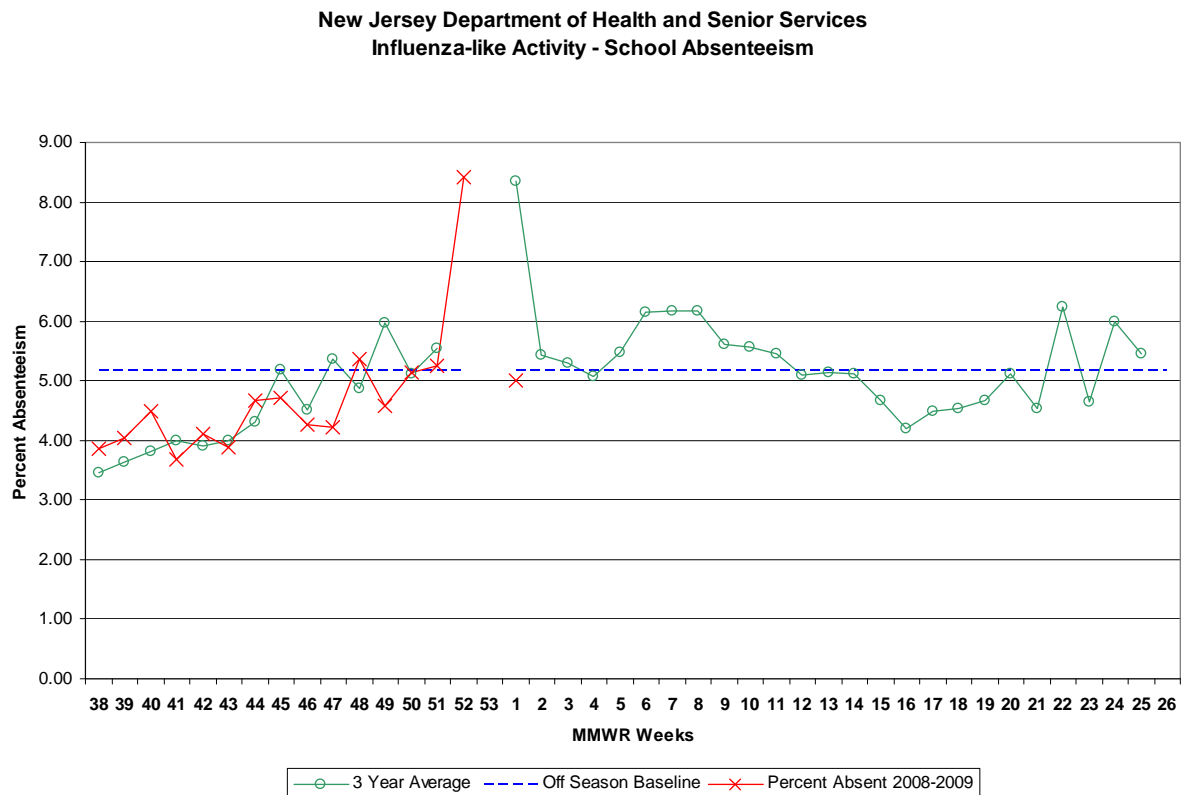
Long-term Care Facilities

During week 1, 0.83% ILI was reported statewide from long term care facilities. This is an increase over the previous week (0.54%). The percent ILI for each county ranged from 0.00% to 2.33%. The percent ILI for this same week last year was 1.16% in long-term care facilities. The percent ILI for the northwest (1.25%), central west (0.79%), and central east (1.40%) public health regions were above the state baseline (0.69%). No reports of respiratory outbreaks in long term care facilities were received in week 1.



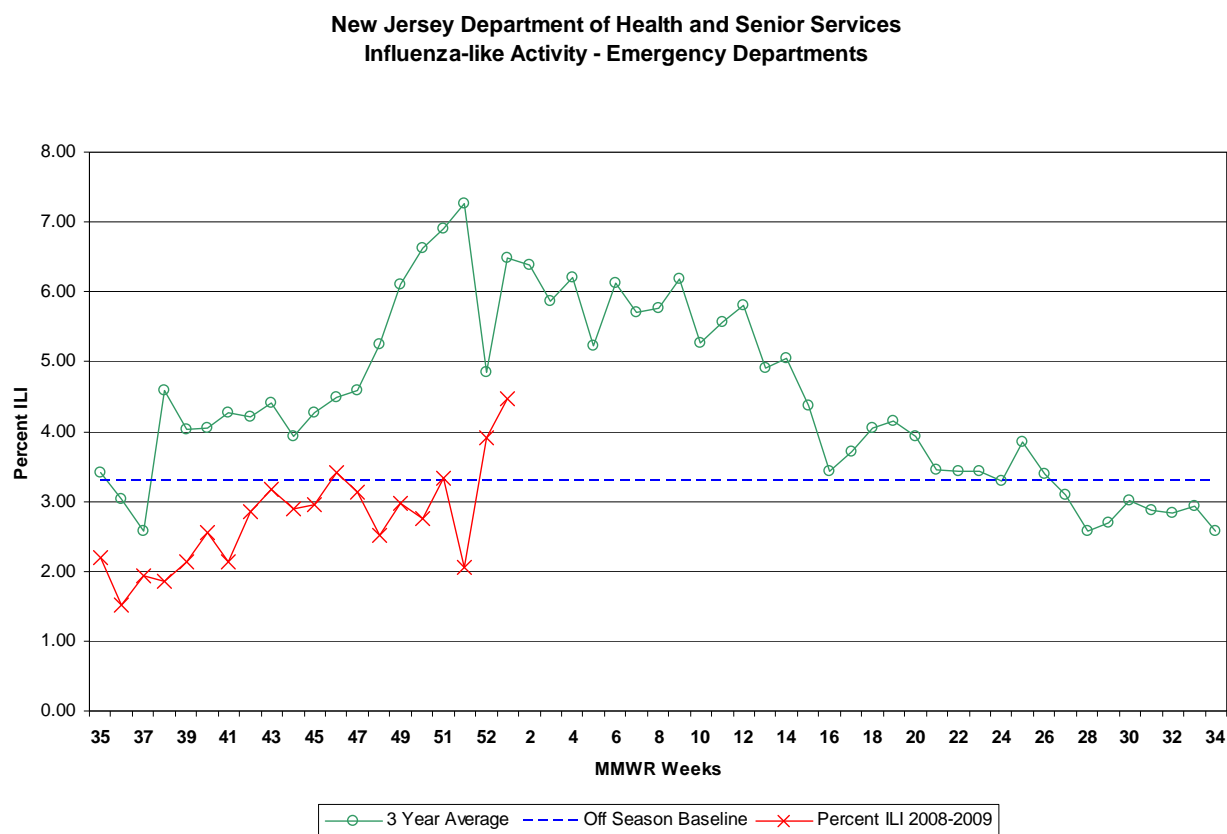
School Absenteeism

During week 1, schools reported 5.00% absenteeism. This is a decrease over the previous week (8.42%). The percent ILI for each county ranged from 3.02 to 7.44%. The percent absent for this same week last year was 10.95%. The percent ILI for the northwest (5.32%) and the northeast (5.48%) public health regions were above the state baseline (5.17%).



Emergency Departments

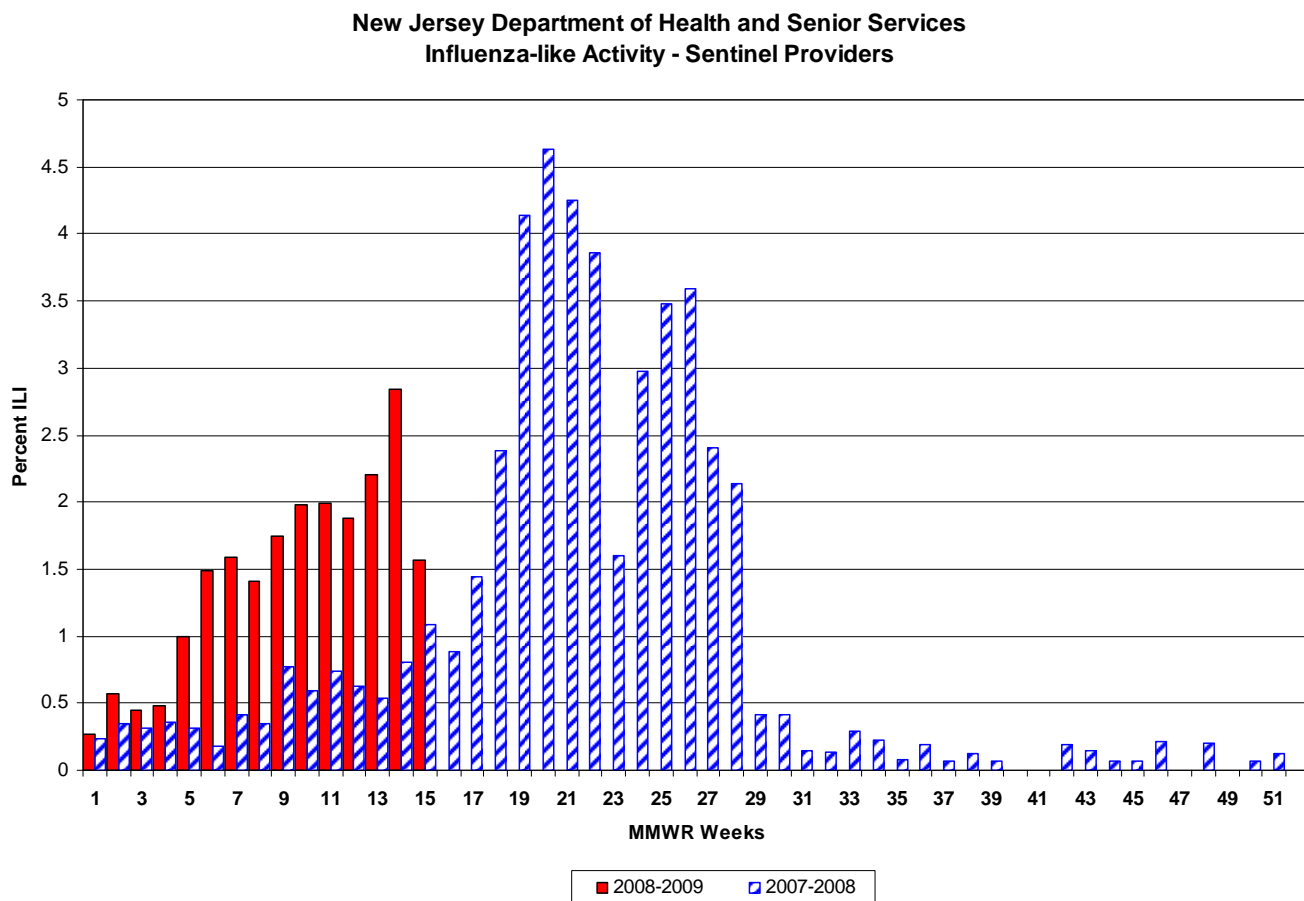
During week 1, 4.47% of ILI was reported statewide from emergency departments. This is an increase over the previous week (3.91%). The percent ILI for each county ranged from 0.00 to 11.64%. The percent ILI for this same week last year was 4.73% in emergency departments. The percent ILI for the northwest (5.17%), northeast (5.34%), central east (4.72%), and south (3.68%) public health regions were above the state baseline (2.60%).



Sentinel Provider Surveillance

During week 1, 1.57% of sentinel provider patient visits were due to ILI. These data reflect reports from thirteen (30%) of the enrolled sentinel providers.

During week 53, 2.84% of sentinel provider patient visits were due to ILI. These data reflect reports from fifteen (34%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

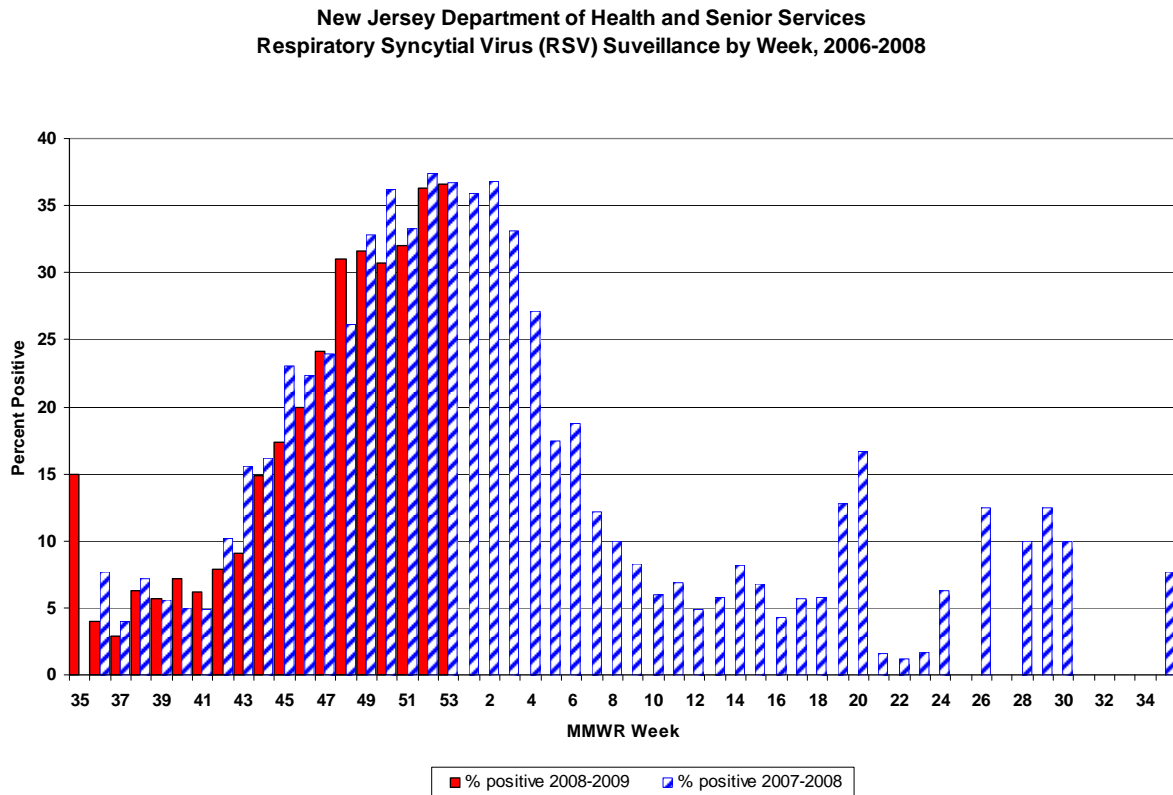
To date, NJDHSS has received six reports of pediatric illness meeting the case definition. No deaths have been reported as of week 1.

122 City Mortality Report

During week 53, 3.73% of all deaths reported by the vital statistics offices in 6 New Jersey cities (i.e., Camden, Elizabeth, Newark, Jersey City, Paterson, Trenton) were due to pneumonia or influenza. This is an increase over the previous week (3.16%). The percentage of death due to pneumonia or influenza for this same week last year was 14.19%.

RSV Reports

During week 53, 36.60% of all RSV samples tested were positive. This is an increase over the previous week 36.29%. The percent of samples positive for RSV for this same week last year was 36.69%.



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	2.33	15	13	7.37	4	4	3.47	13	41
BERGEN	3	0	0.00	25	17	3.94	6	0	0.00	0	0
BURLINGTON	6	2	0.00	115	71	4.65	3	3	2.68	17	32
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	0	0
CAPE MAY	6	5	0.36	11	10	4.59	1	1	10.92	3	11
CUMBERLAND	6	2	0.68	18	9	6.23	3	3	6.47	19	29
ESSEX	18	6	0.22	34	6	3.30	11	10	5.34	36	117
GLOUCESTER	5	4	0.26	2	1	5.76	2	2	0.32	5	8
HUDSON	10	2	1.40	92	54	5.90	6	0	0.00	12	39
HUNTERDON	4	4	0.23	8	8	3.95	1	1	1.14	10	21
MERCER	11	2	0.00	26	22	3.99	5	2	2.31	1	2
MIDDLESEX	2	0	0.00	89	25	3.99	5	2	7.67	3	22
MONMOUTH	14	1	3.18	24	12	6.96	5	5	1.29	13	37
MORRIS	2	0	0.00	13	0	0.00	4	0	0.00	0	0
OCEAN	6	1	0.00	38	19	7.25	4	4	2.30	13	20
PASSAIC	9	4	2.22	23	7	7.44	6	1	3.31	0	0
SALEM	4	1	0.00	5	0	0.00	1	1	0.00	0	0
SOMERSET	5	4	1.81	63	16	3.02	2	0	0.00	1	4
SUSSEX	5	5	0.97	22	22	4.60	2	2	1.96	0	4
UNION	4	1	1.23	130	20	3.78	5	5	9.38	7	31
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	2	0.49	21	12	4.53	2	2	11.64	0	0
NW Region	23	11	1.25	79	41	5.32	14	5	5.17	0	4
NE Region	31	8	0.56	151	77	5.48	23	10	5.34	48	156
CW Region	20	10	0.79	97	46	3.65	8	3	1.97	12	27
CE Region	26	3	1.40	281	76	5.13	19	16	4.72	36	110
South Region	38	15	0.51	183	104	5.16	21	14	3.68	57	121
State Total	138	47	0.83	791	344	5.00	85	48	4.47	153	418