

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending January 3, 2009 (MMWR Week 53)

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

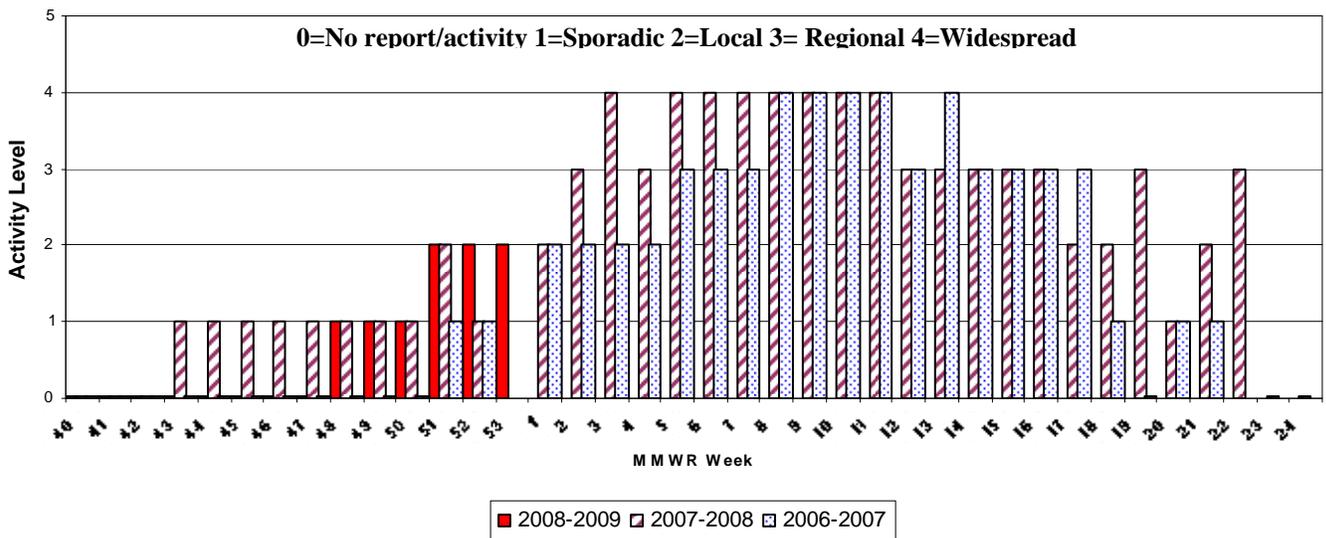
Regional – At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties

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	LOCAL
NE Region	Bergen, Essex, Hudson	LOCAL
CW Region	Hunterdon, Mercer, Somerset	SPORADIC
CE Region	Middlesex, Monmouth, Ocean, Union	SPORADIC
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

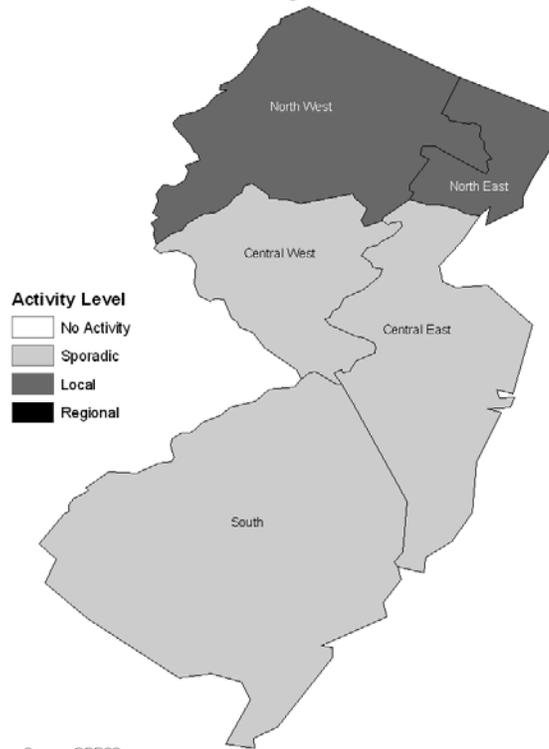
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

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 52, fourteen 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 52							Week 50, 51, 52						
	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	8	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	1	0	0	1	0	1	0	1	0	0
Gloucester County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hudson County	3	2	0	1	0	0	0	2	1	0	1	0	0	0
Hunterdon County	0	0	7	5	0	0	0	0	0	4	5	0	0	0
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	0	0	0	1	0	0	0	0	0	0	1
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	2	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	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	43	10	14	11	1	0	2	14	4	5	8	1	0	1

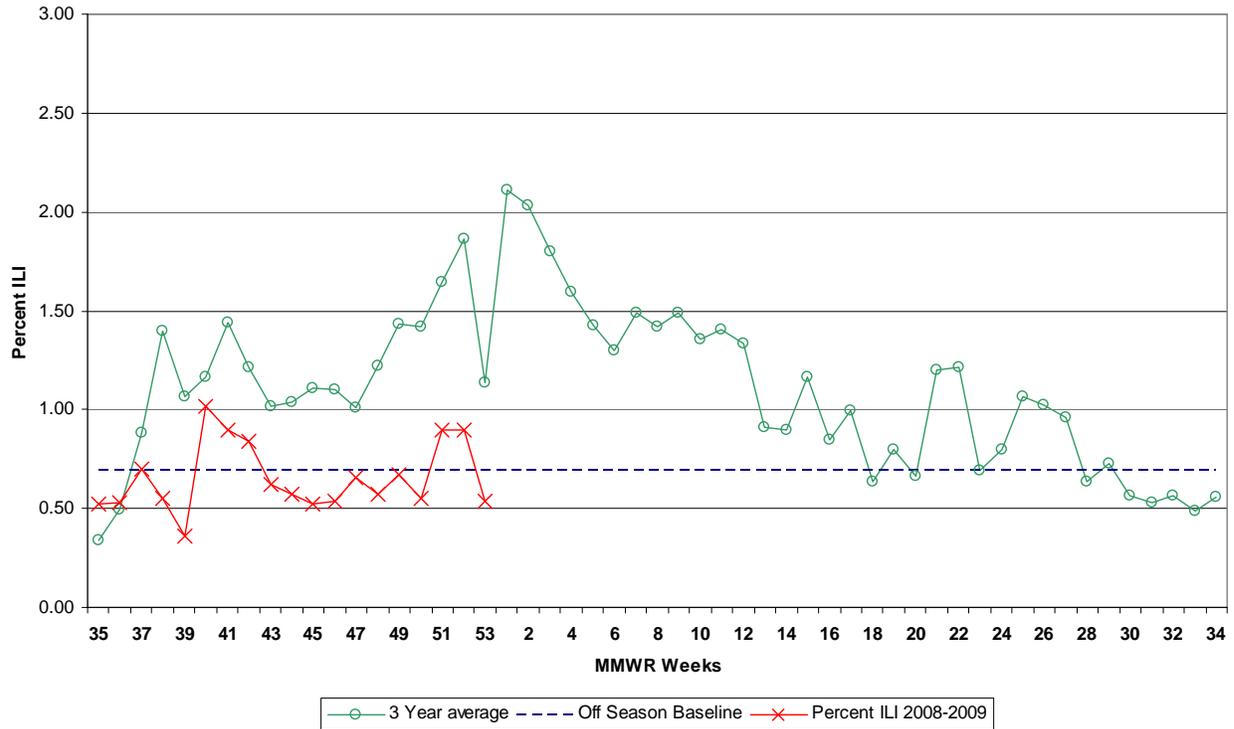
*Rapid data is acquired from facilities reporting rapid influenza tests via NREVSS or CDRSS ILI module. Culture results are obtained from the LIMS system at PHEL, hospital viral culture laboratories via NREVSS or commercial laboratories reporting in CDRSS. County of residence as provided by the laboratory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

Influenza-like Illness (ILI) Surveillance*

Long-term Care Facilities

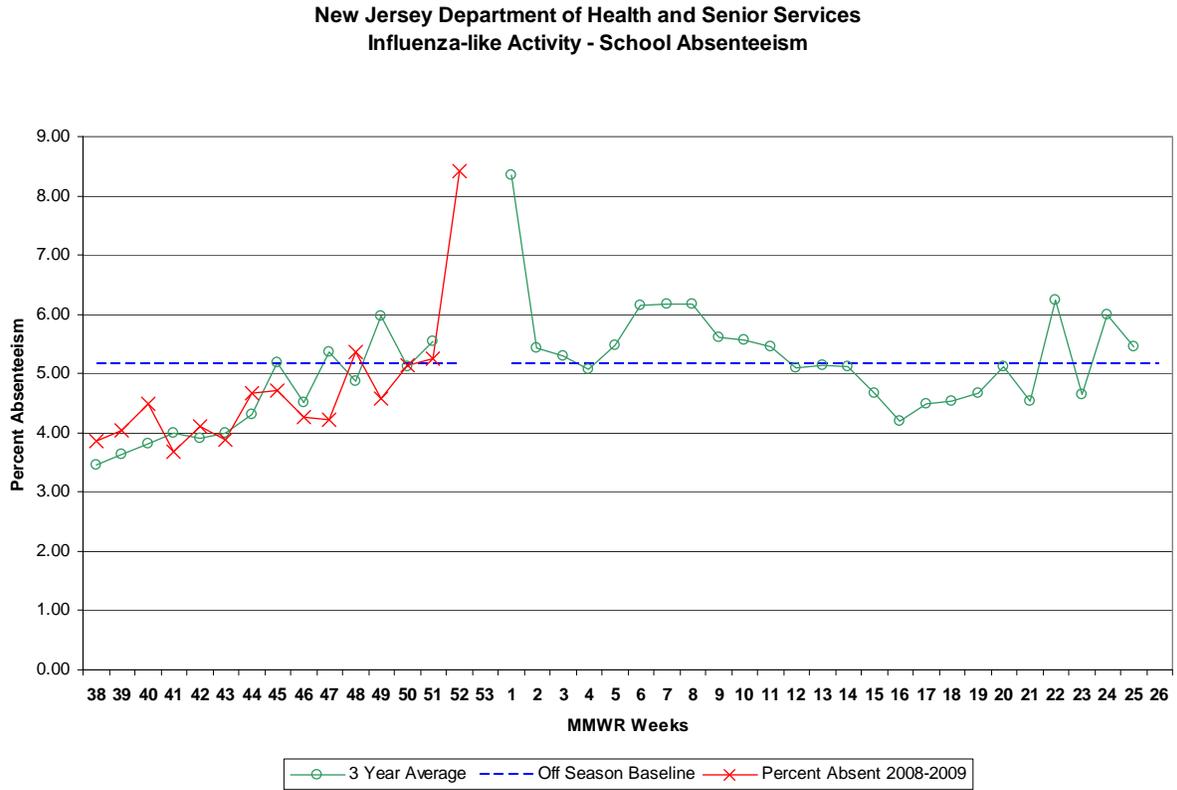
During week 53, 0.54% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (0.90). The percent ILI for each county ranged from 0.00% to 1.98%. The percent ILI for this same week last year was 1.06% in long-term care facilities. The percent ILI for the northwest (1.27%) and northeast (0.76%) public health region was above the state baseline (0.69%). No reports of respiratory outbreaks in long term care facilities were received in week 53.

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



School Absenteeism

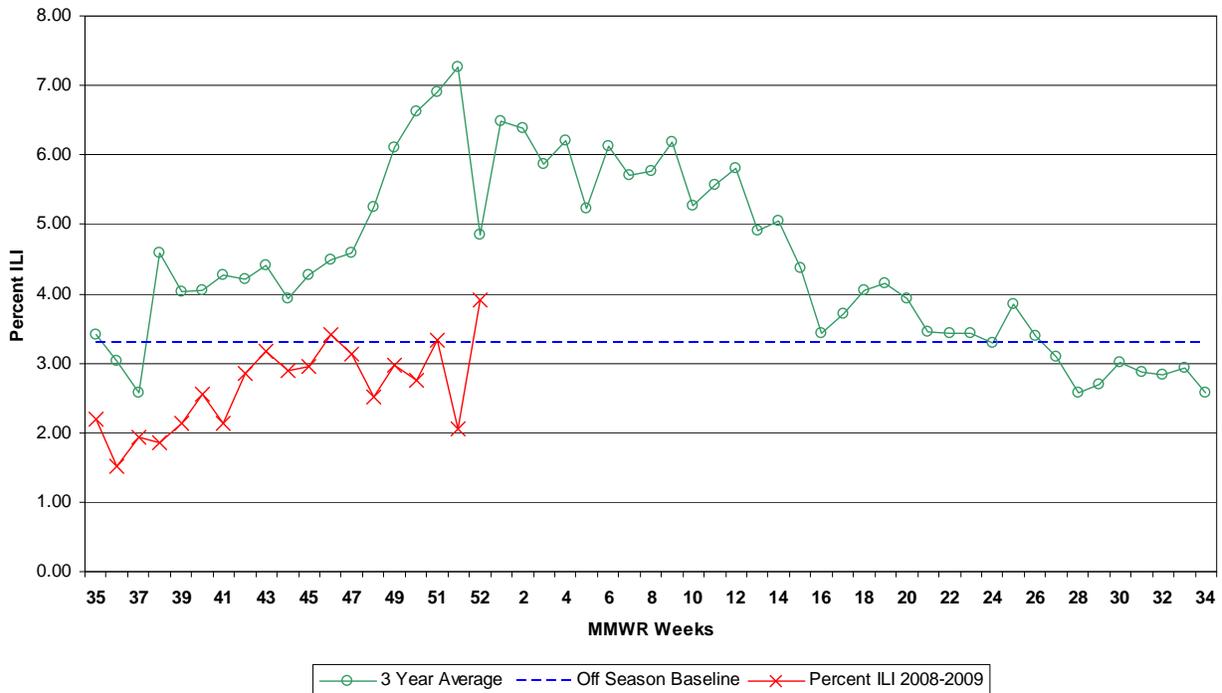
During week 53, schools did not report due to holiday closures.



Emergency Departments

During week 53, 3.91% of ILI was reported statewide from emergency departments. This is an increase over the previous week (2.05%). The percent ILI for each county ranged from 0.00 to 12.07%. The percent ILI for this same week last year was 4.73% in emergency departments. The percent ILI for the northwest (8.85%), northeast (5.43%), central west (3.28%), and central east (3.69%) public health regions were above the state baseline (2.60%).

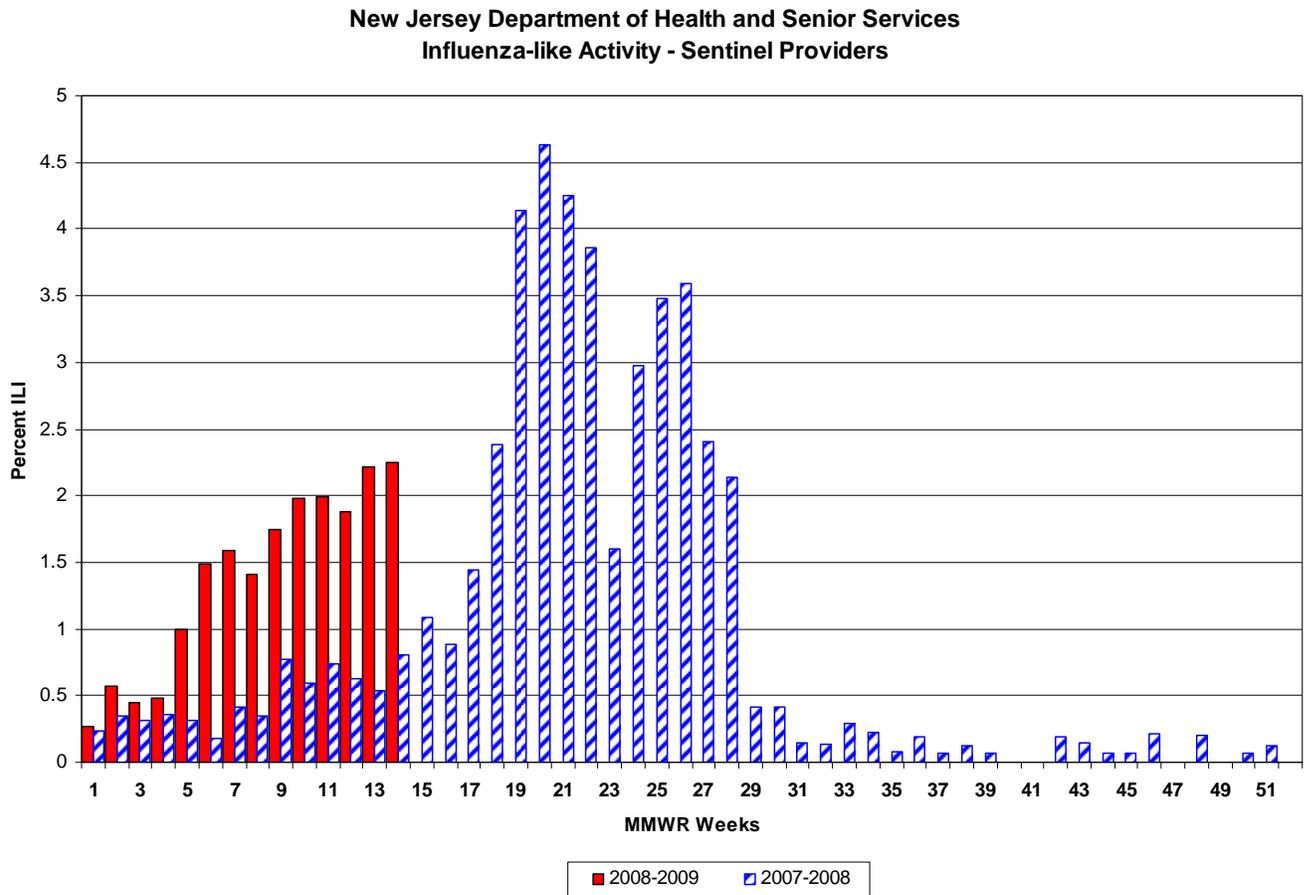
New Jersey Department of Health and Senior Services
Influenza-like Activity - Emergency Departments



Sentinel Provider Surveillance

During week 53, 2.25% of sentinel provider patient visits were due to ILI. These data reflect reports from ten (23%) of the enrolled sentinel providers.

During week 52, 2.22% of sentinel provider patient visits were due to ILI. These data reflect reports from seventeen (39%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

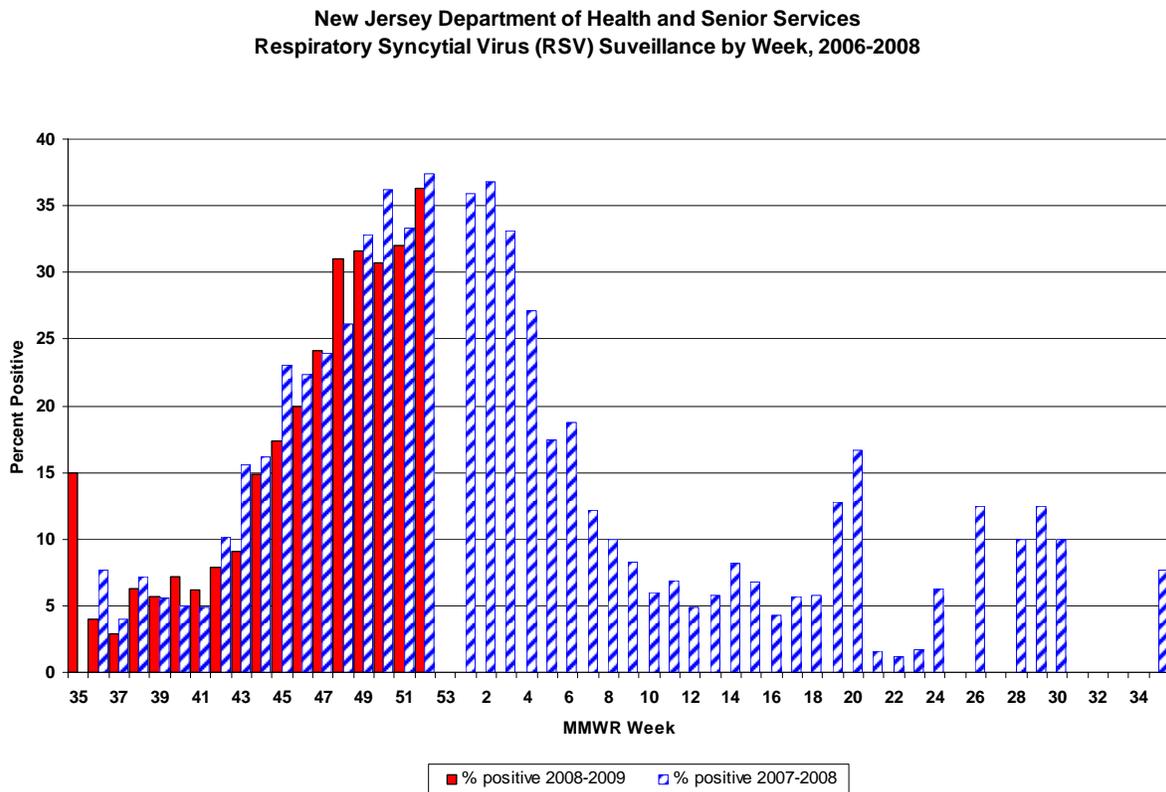
To date, NJDHSS has received six reports of pediatric illness meeting the case definition. No deaths have been reported as of week 53.

122 City Mortality Report

During week 52, 3.16% 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 (8.39%). The percentage of death due to pneumonia or influenza for this same week last year was 1.87%.

RSV Reports

During week 52, 36.29% of all RSV samples tested were positive. This is an increase over the previous week 32.09%. The percent of samples positive for RSV for this same week last year was 37.45%.



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.



County	Long Term Care			Schools			Hospital Emergency Department			RSV Tests	
	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI	# Positive	Total Tests Performed
ATLANTIC	4	1	0.00	16	0	0.00	4	4	2.09	11	33
BERGEN	3	0	0.00	25	0	0.00	6	0	0.00	0	0
BURLINGTON	6	1	0.00	115	0	0.00	3	3	2.57	17	33
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	0	0
CAPE MAY	6	0	0.00	11	0	0.00	1	0	0.00	0	0
CUMBERLAND	6	3	0.43	18	0	0.00	3	2	12.07	10	20
ESSEX	18	5	0.38	34	0	0.00	11	6	5.69	17	67
GLOUCESTER	5	4	0.00	2	0	0.00	2	2	0.00	6	8
HUDSON	10	1	1.98	92	0	0.00	6	1	2.70	10	25
HUNTERDON	4	4	0.23	8	0	0.00	1	1	5.66	2	11
MERCER	11	4	0.00	26	0	0.00	5	2	2.01	3	4
MIDDLESEX	2	0	0.00	89	0	0.00	5	0	0.00	39	106
MONMOUTH	14	0	0.00	24	0	0.00	5	4	1.45	16	44
MORRIS	2	0	0.00	13	0	0.00	4	0	0.00	2	7
OCEAN	6	0	0.00	39	0	0.00	4	4	3.99	8	20
PASSAIC	9	0	0.00	23	0	0.00	6	0	0.00	18	43
SALEM	4	1	0.00	5	0	0.00	1	1	0.00	0	0
SOMERSET	5	0	0.00	63	0	0.00	2	0	0.00	0	0
SUSSEX	5	5	1.10	22	0	0.00	2	2	8.49	1	6
UNION	4	2	0.38	130	0	0.00	5	5	5.66	7	26
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	2	1.95	21	0	0.00	2	2	9.09	1	10
NW Region	23	7	1.27	79	0	0.00	14	4	8.85	22	66
NE Region	31	6	0.76	151	0	0.00	23	7	5.43	27	92
CW Region	20	8	0.12	97	0	0.00	8	3	3.28	5	15
CE Region	26	2	0.38	282	0	0.00	19	13	3.69	70	196
South Region	38	10	0.15	184	0	0.00	21	12	2.44	44	94
State Total	138	33	0.54	793	0	0.00	85	39	3.91	168	463