

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending December 8, 2007 (MMWR Week 49)

Influenza activity level: **SPORADIC**

NOTE: Three of three reporting parameters are above state baseline and laboratory confirmed influenza has been reported throughout the state.

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

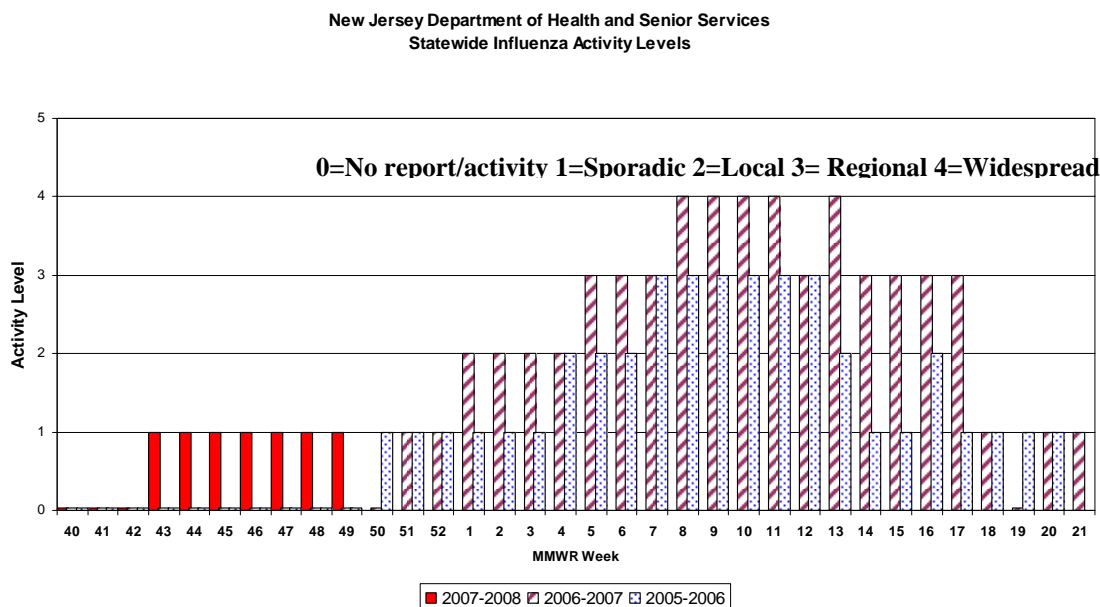
Local – At least 2 or 3 parameters above state baseline in a single county **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county

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

Baseline is calculated by taking the average of statewide percentages of ILI for a 4 year (2004, 2005, 2006, 2007) period during months when influenza is less likely to be circulating (May-August). Weeks in which less than 4 counties reported were not included in the calculation.



Regional Data

SPORADIC – NW, CE, CW and South NO ACTIVITY – NW

NOTE: Rapid or culture influenza positive tests were received from the NE, CW, CE and south public health regions.

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

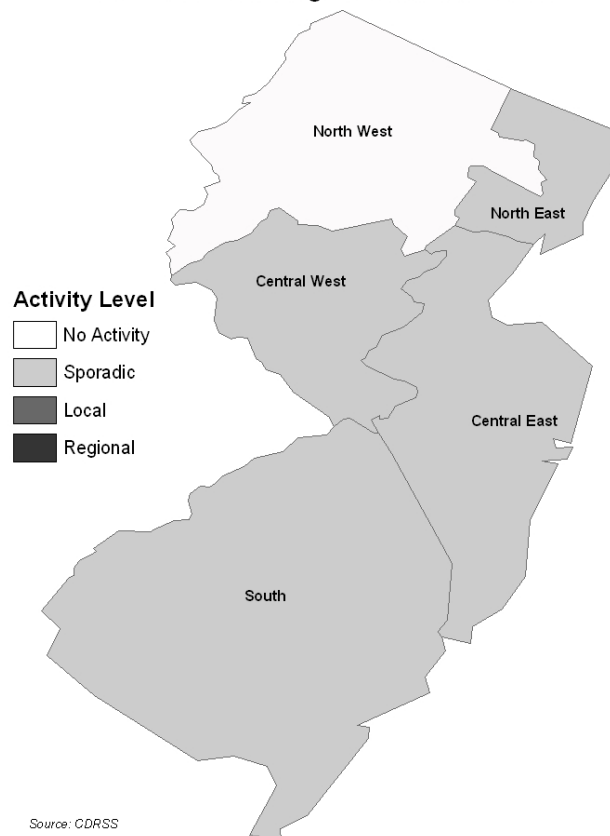
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

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

Public Health Region Influenza Data



Laboratory Surveillance

To date, 4 samples have been found to be positive by viral culture (1- AH1 and 3-B). Rapid and culture results by county are displayed below.

County	Week 40 to Week 49							Weeks 47, 48, and 49						
	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														
Bergen County	1			1				1			1			
Burlington County	3							2						
Camden County														
Cape May County														
Cumberland County														
Essex County	2		1					2		1				
Gloucester County			3											
Hudson County														
Hunterdon County														
Mercer County	5							5	2					
Middlesex County							1							
Monmouth County	2													
Morris County														
Ocean County														
Passaic County														
Salem County														
Somerset County														
Sussex County														
Union County							2							2
Warren County														
Unknown														
State Total	13	2	4	1			3	10	2	1	1			2

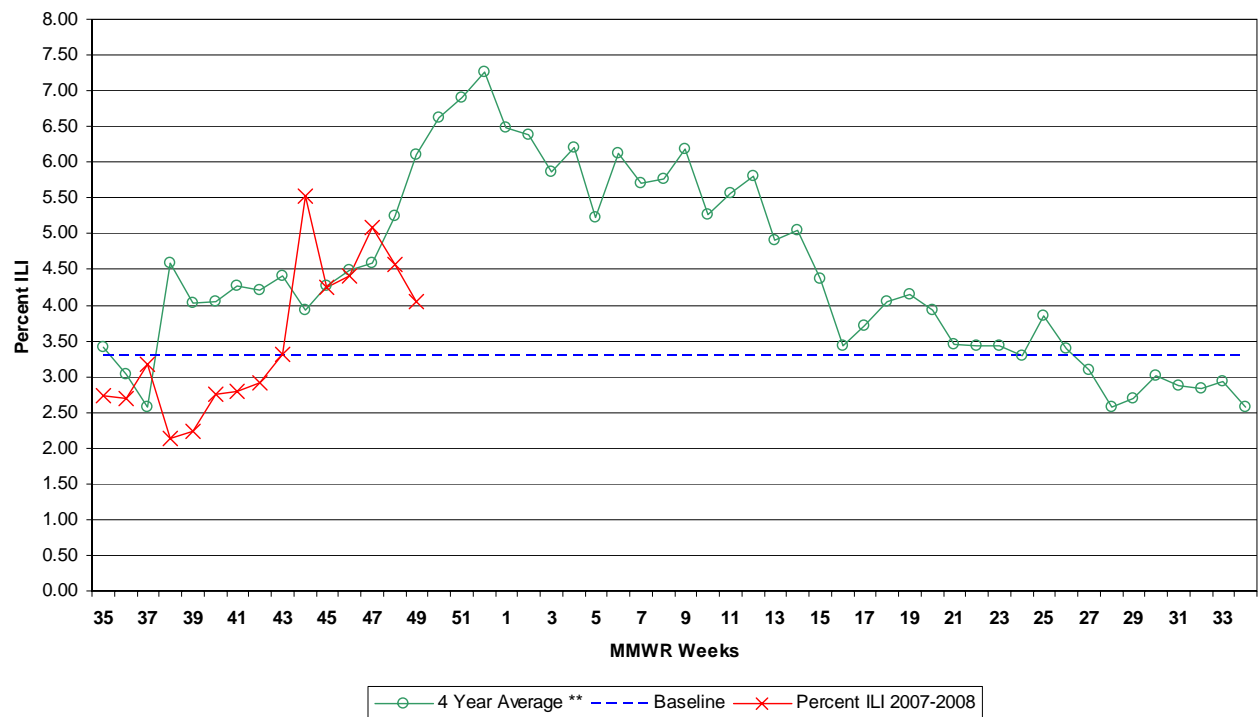
*Rapid data is acquired from facilities reporting rapid influenza tests via NREVSS or CDRSS ILI module. Culture results are obtained via PHEL, hospital viral culture laboratories or commercial laboratories.

Influenza-like Illness (ILI) Surveillance*

Emergency Departments

During week 49, 4.04% ILI was reported statewide from emergency departments. This is a decrease over the previous week (4.56%). The percent ILI for each county ranged from 1.06 to 17.50. The percent ILI for this same week last year was 4.25% in emergency departments. The percent ILI for the central west (4.54%), central east (4.86%), and south (4.14%) public health regions were above state baseline (3.30%).

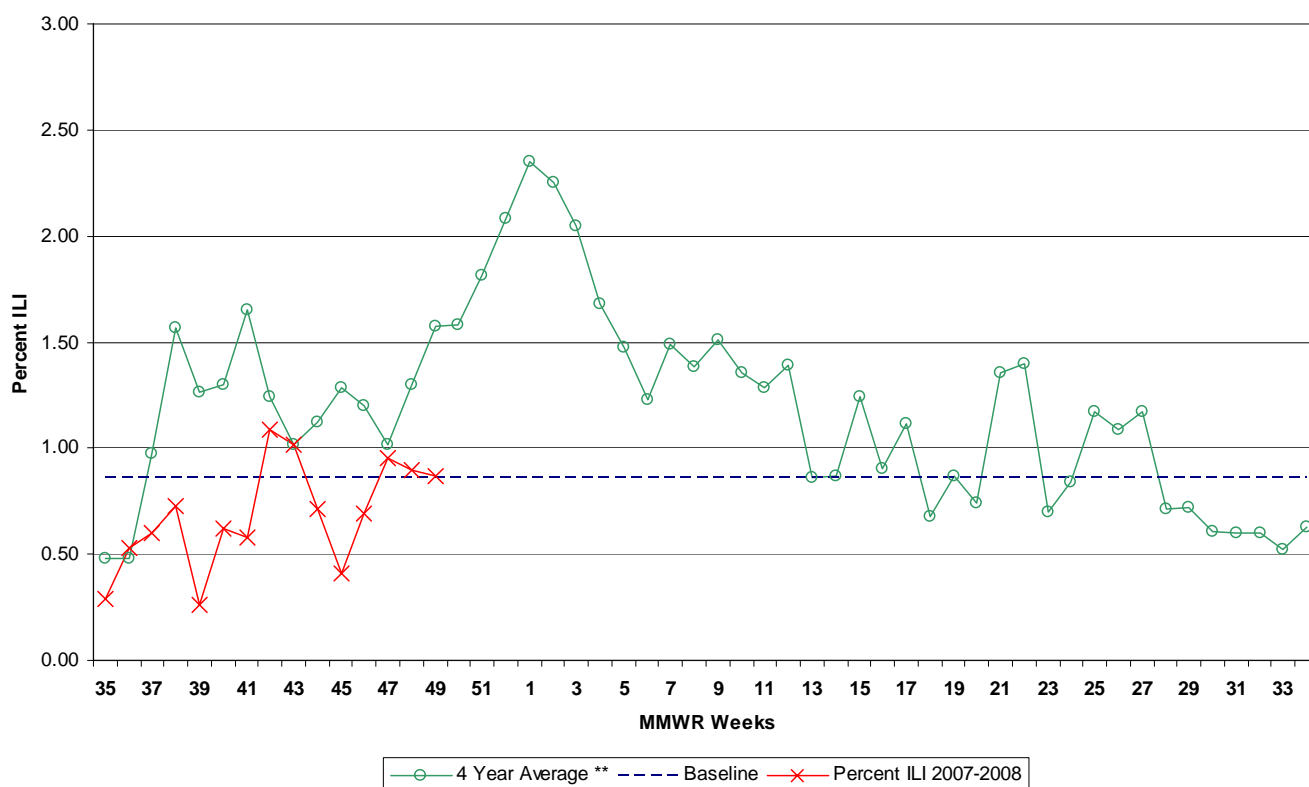
New Jersey Department of Health and Senior Services Influenza-like Activity - Emergency Departments



Long-term Care Facilities

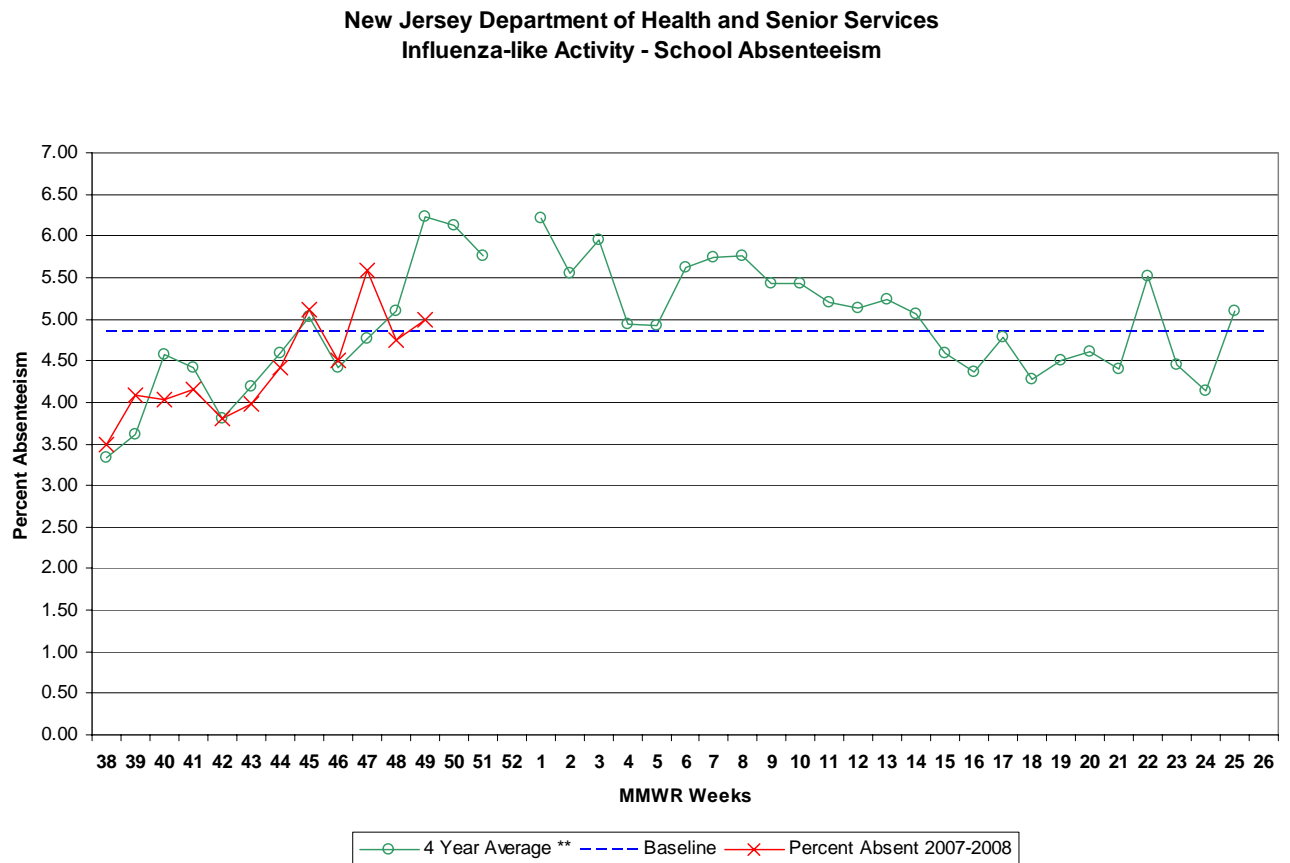
During week 49, 0.87% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (0.90%). The percent ILI for each county ranged from 0.00% to 3.13%. The percent ILI for this same week last year was 0.58% in long-term care facilities. The percent ILI for the northwest (0.93%), northeast (1.38%), central east (0.92%) and south (1.02%) public health regions were above state baseline (0.86%). One report of ILI/respiratory outbreaks in communal living facilities was received in week 49.

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



School Absenteeism

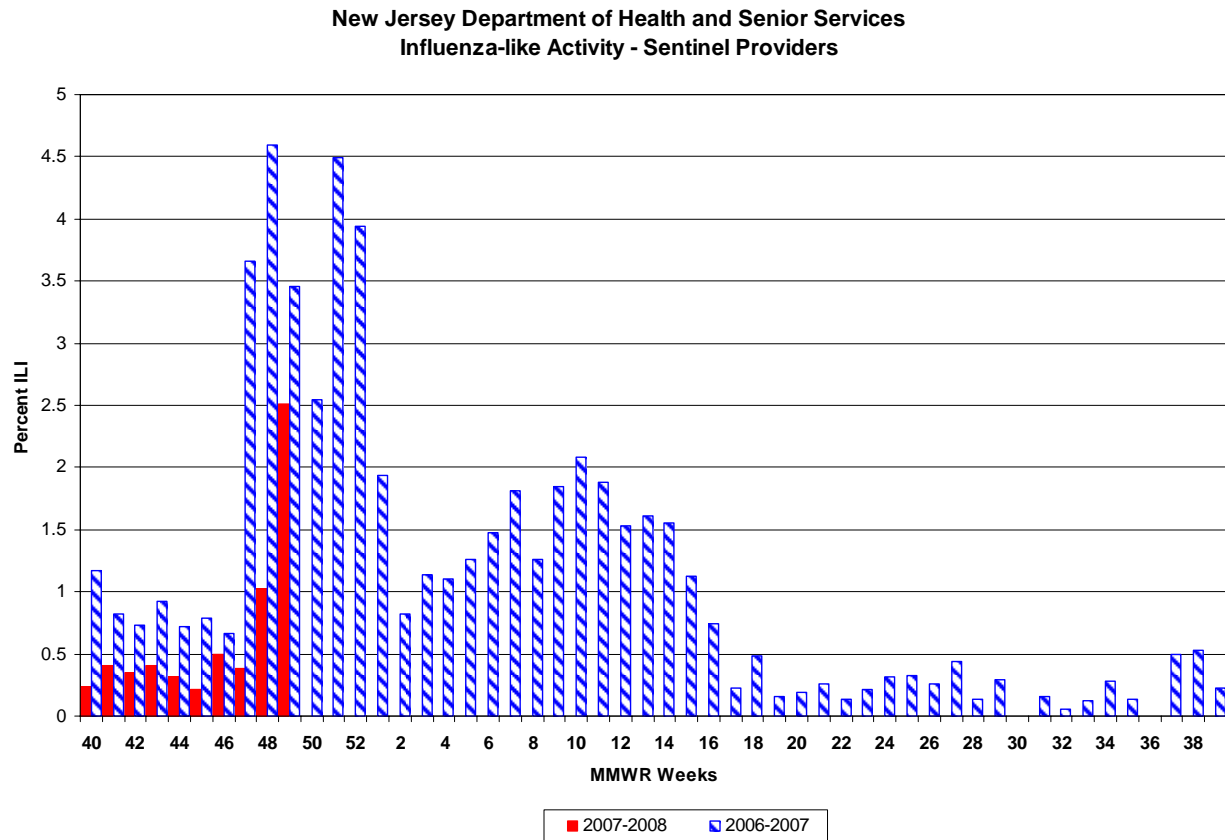
During week 49, schools reported 5.00% absenteeism. This is a decrease over the previous week (4.74%). The percent ILI for each county ranged from 2.25 – 8.12%. The percent absent for this same week last year was 5.58%. The percent ILI for the northwest (5.32%), northeast (5.00%), central east (5.26%) and south (5.45%) public health regions were above state baseline (4.85%).



Sentinel Provider Surveillance

During week 49, 2.51% of sentinel provider patient visits were due to ILI. These data reflect reports from five (13%) of the enrolled sentinel providers.

During week 48, 1.03% of sentinel provider patient visits were due to ILI. These data reflect reports from ten (26%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

To date, NJDHSS has received 2 reports of pediatric illness. One of these cases have met the case definition for pediatric illness or death associated with influenza

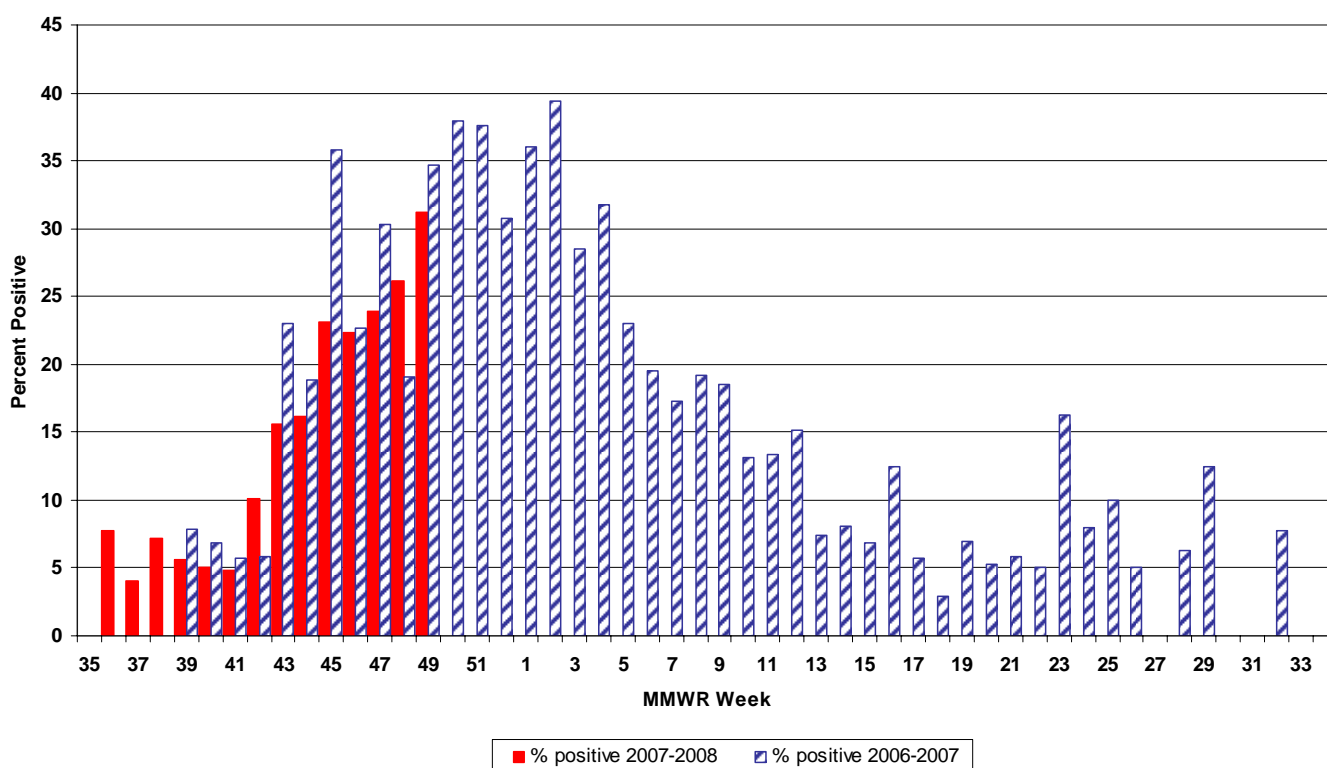
122 City Mortality Report

During week 48, 9.41% 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 as the previous week (5.71%). The percentage of death due to pneumonia or influenza for this same week last year was 3.09%.

RSV Reports

During week 49, 31.25% of all RSV samples tested were positive. This was an increase over the previous week 26.18%. The percent of samples positive for RSV for this same week last year was 34.66%.

**New Jersey Department of Health and Senior Services
Respiratory Syncytial Virus (RSV) Surveillance by Week, 2006-2008**



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/>

* Baseline is calculated by taking the average of statewide percentages of ILI for a 4 year (2004, 2005, 2006, 2007) period during months when influenza is less likely to be circulating (May-August). Weeks in which less than 4 counties reported were not included in the calculation.

**Four year average is an average of the 2003-2004, 2004-2005, 2005-2006, 2006-2007 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	5	2	2.39	18	15	7.18	4	4	1.39	4	34
BERGEN	3	0	0.00	14	0	0.00	6	0	0.00	6	20
BURLINGTON	6	3	0.00	104	61	4.58	3	2	1.67	6	22
CAMDEN	7	3	1.12	17	2	4.67	7	5	0.27	0	0
CAPE MAY	5	1	0.00	11	9	6.50	1	1	17.50	0	3
CUMBERLAND	4	2	1.51	18	8	8.12	3	3	4.33	0	8
ESSEX	14	1	3.13	31	5	2.08	11	4	3.24	33	102
GLOUCESTER	2	1	0.00	5	0	0.00	2	2	11.07	2	3
HUDSON	10	3	1.28	87	65	5.07	8	0	0.00	11	18
HUNTERDON	4	4	0.44	8	8	4.08	1	1	1.20	1	4
MERCER	10	5	0.00	24	20	3.61	5	4	5.22	8	32
MIDDLESEX	2	1	0.00	46	17	5.11	5	1	10.77	30	99
MONMOUTH	6	1	0.97	25	14	6.86	5	2	0.75	0	0
MORRIS	11	2	1.08	14	13	2.48	4	2	1.03	17	29
OCEAN	6	2	1.90	27	12	5.43	4	3	6.34	0	6
PASSAIC	8	4	0.00	23	9	7.70	6	0	0.00	0	0
SALEM	4	2	0.00	5	0	0.00	1	0	0.00	0	0
SOMERSET	5	2	0.81	62	26	3.60	2	0	0.00	0	2
SUSSEX	5	5	0.97	24	24	5.37	2	2	1.06	3	8
UNION	4	1	0.29	118	43	4.60	5	5	4.35	5	18
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	4	1.84	21	17	5.32	2	0	0.00	4	8
NW Region	31	15	0.93	82	63	5.32	14	4	1.04	24	45
NE Region	27	4	1.38	132	70	4.97	25	4	3.24	50	140
CW Region	19	11	0.30	94	54	3.67	8	5	4.54	9	38
CE Region	18	5	0.92	216	86	5.26	19	11	4.86	35	123
South Region	33	14	1.02	178	95	5.45	21	17	4.14	12	70
State Total	128	49	0.87	702	368	4.99	87	41	4.04	130	416