

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending February 25, 2007 (MMWR Week 8)

Influenza activity level: **WIDESPREAD**

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

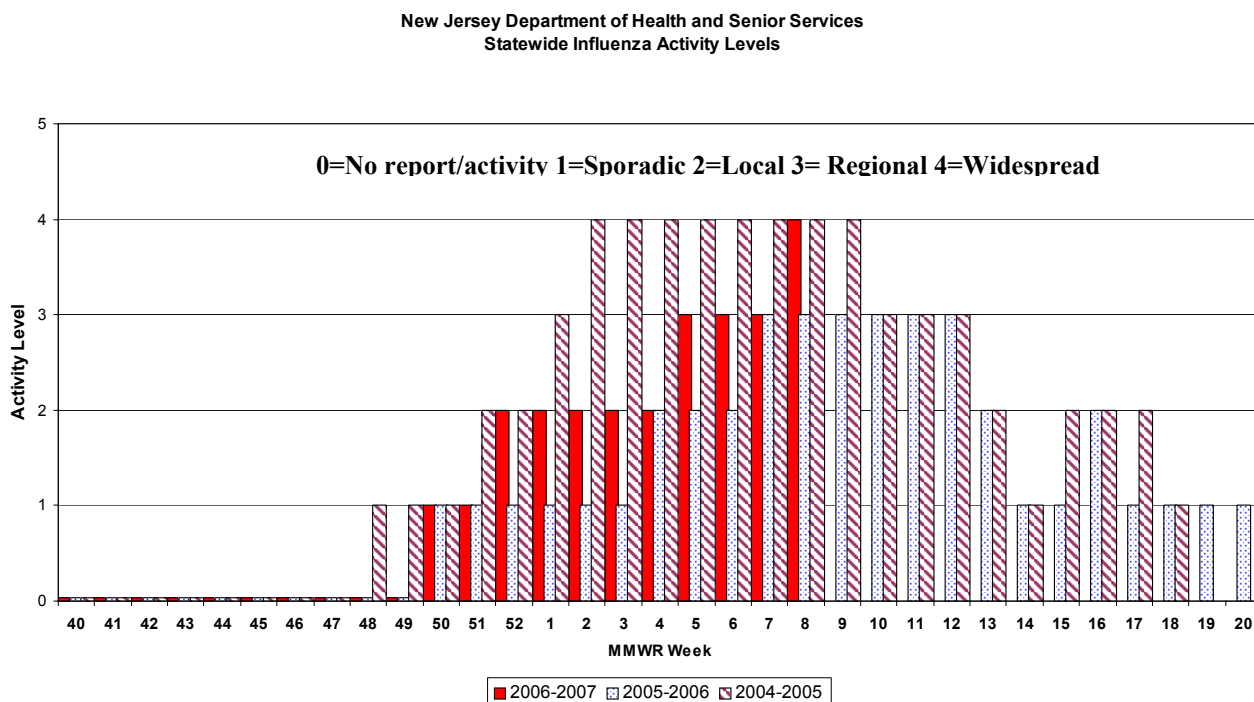
Local – At least 2 or 3 parameters above state baseline in a single county **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county

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 3 year (2004, 2005, 2006) 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

REGIONAL ACTIVITY – NW, NE, CW, AND CE SPORADIC ACTIVITY - SOUTH

NOTE: More the half of the counties reporting in the NE, NW, CW and CE public health regions were above state baseline and had laboratories confirmed by viral isolation in the previous three weeks.

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)

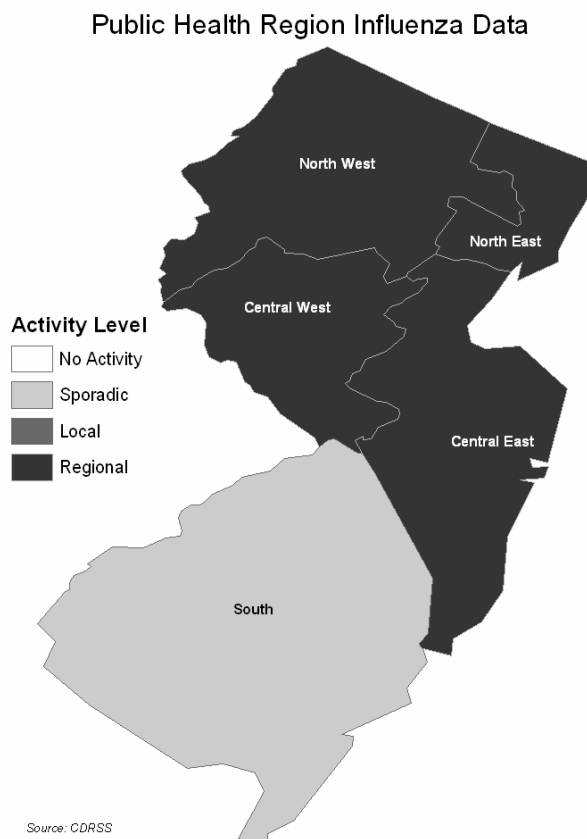
No Activity- At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases in the public health region

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



Laboratory Surveillance

To date, 92 influenza specimens were found to be positive by viral culture. The below chart describes the number and type of influenza by MMWR week and county.

Influenza Type	Number positive	County Data		
		County	# positive	MMWR Week
Influenza A – Not typed	11	Camden	1	50
		Bergen	3	6
		Passaic	2	6
		Sussex	1	6
		Burlington	2	7
		Hudson	1	7
		Union	1	7
Influenza A H1	31	Camden	1	50
		Bergen	1	51
		Morris	1	2
		Camden	1	4
		Essex	2	4
		Middlesex	2	4
		Mercer	1	5
		Monmouth	1	5
		Cape May	1	5
		Camden	1	5
		Monmouth	5	6
		Union	2	6
		Camden	1	6
		Middlesex	1	6
		Middlesex	4	7
		Monmouth	2	7
		Somerset	2	7
		Union	1	7
		Warren	1	7
Influenza A H3	21	Middlesex	1	1
		Essex	1	3
		Hunterdon	1	3
		Monmouth	1	3
		Monmouth	1	4
		Passaic	1	4
		Mercer	1	5
		Sussex	1	5
		Passaic	1	5
		Monmouth	1	6
		Mercer	1	6
		Passaic	2	6
		Mercer	3	7
		Middlesex	2	7
		Passaic	2	7
		Somerset	1	7

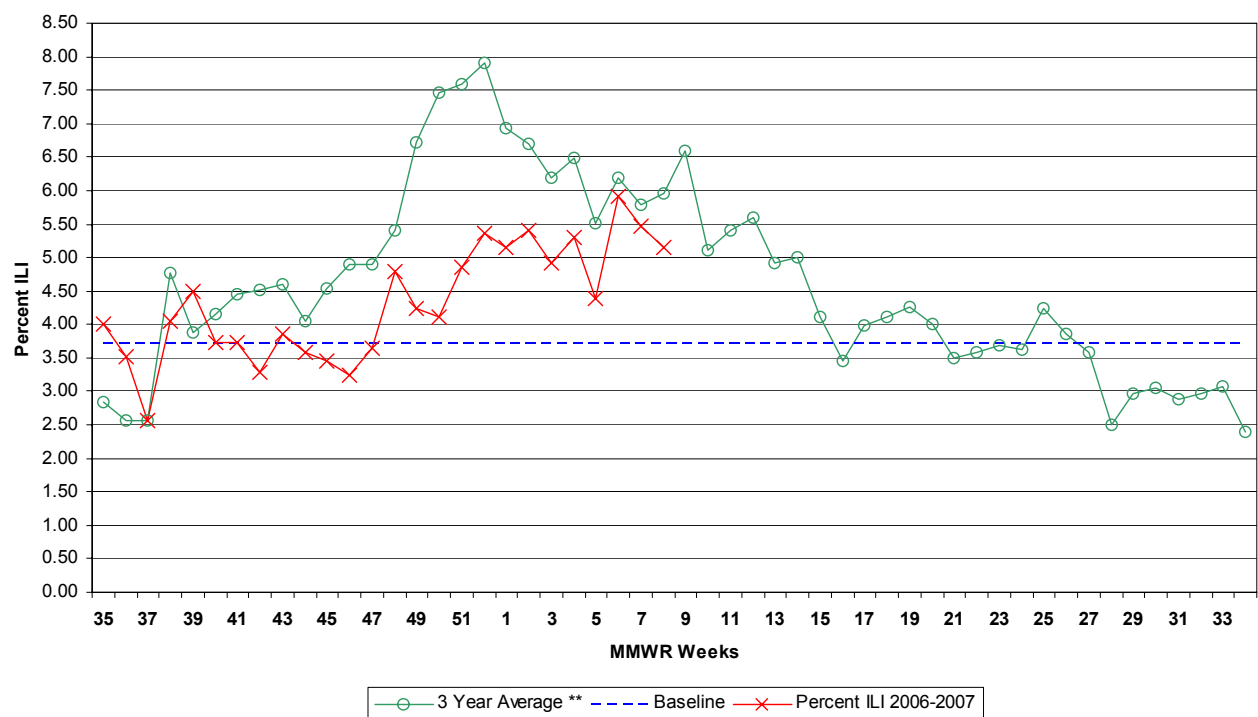
Influenza B	29	Somerset	1	1
		Warren	1	1
		Passaic	1	2
		Somerset	1	3
		Essex	1	4
		Monmouth	1	4
		Morris	1	4
		Monmouth	3	5
		Sussex	1	5
		Bergen	1	6
		Essex	1	6
		Gloucester	1	6
		Mercer	1	6
		Middlesex	1	6
		Ocean	1	6
		Monmouth	3	6
		Morris	1	6
		Warren	1	6
		Burlington	1	7
		Hudson	1	7
		Monmouth	2	7
		Morris	1	7
		Somerset	1	7
		Union	1	7
Total	92			

Influenza-like Illness (ILI) Surveillance*

Emergency Departments

During week 8, 5.15% ILI was reported statewide from emergency departments. This is a decrease over the previous week (5.47%). The percent ILI for each county ranged from 0.00 to 18.91%. The percent ILI for this same week last year was 5.47% in emergency departments. The percent ILI for the northwest (3.87%), northeast (5.21%), central west (8.76%), and central east (6.44%) public health regions were above state baseline (3.71%).

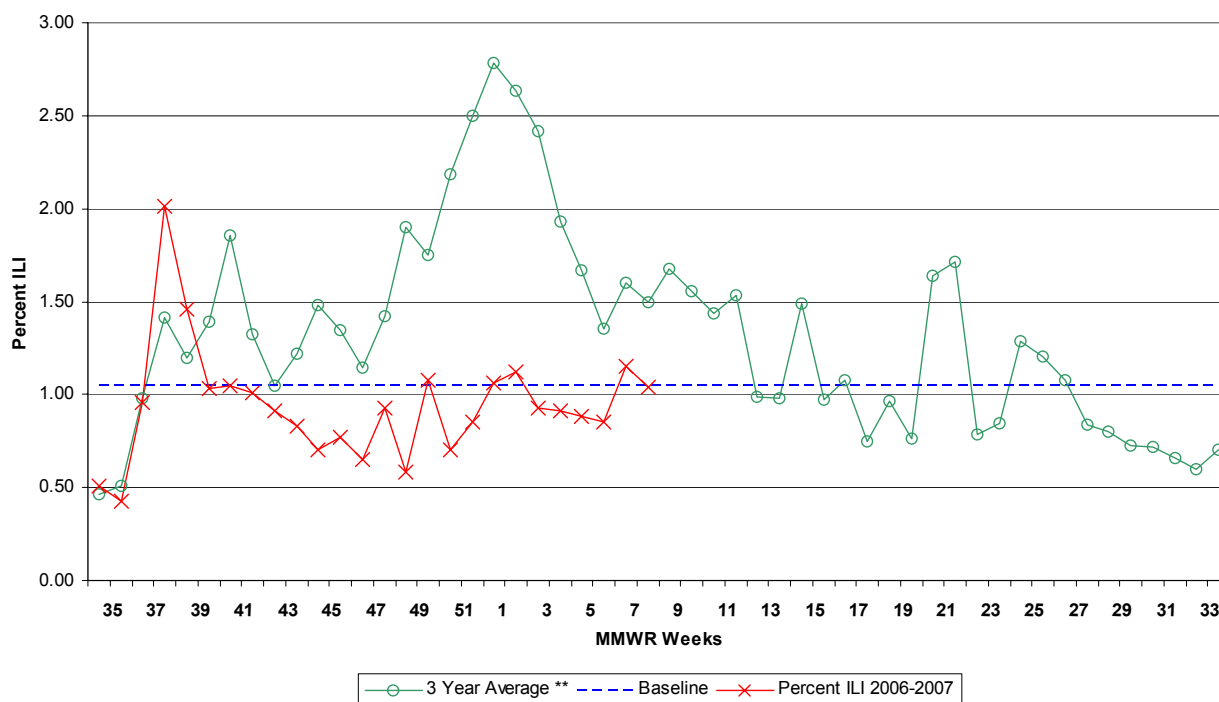
New Jersey Department of Health and Senior Services Influenza-like Activity - Emergency Departments



Long-term Care Facilities

During week 8, 1.04% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (1.59%). The percent ILI for each county ranged from 0.00% to 2.37%. No reports regarding ILI/respiratory outbreaks in communal living facilities were received in week 8. The percent ILI for this same week last year was 1.59% in long-term care facilities. The percent ILI for the northwest (1.53%), central west (1.32%) and central east (2.00%) public health region was above state baseline (1.05%).

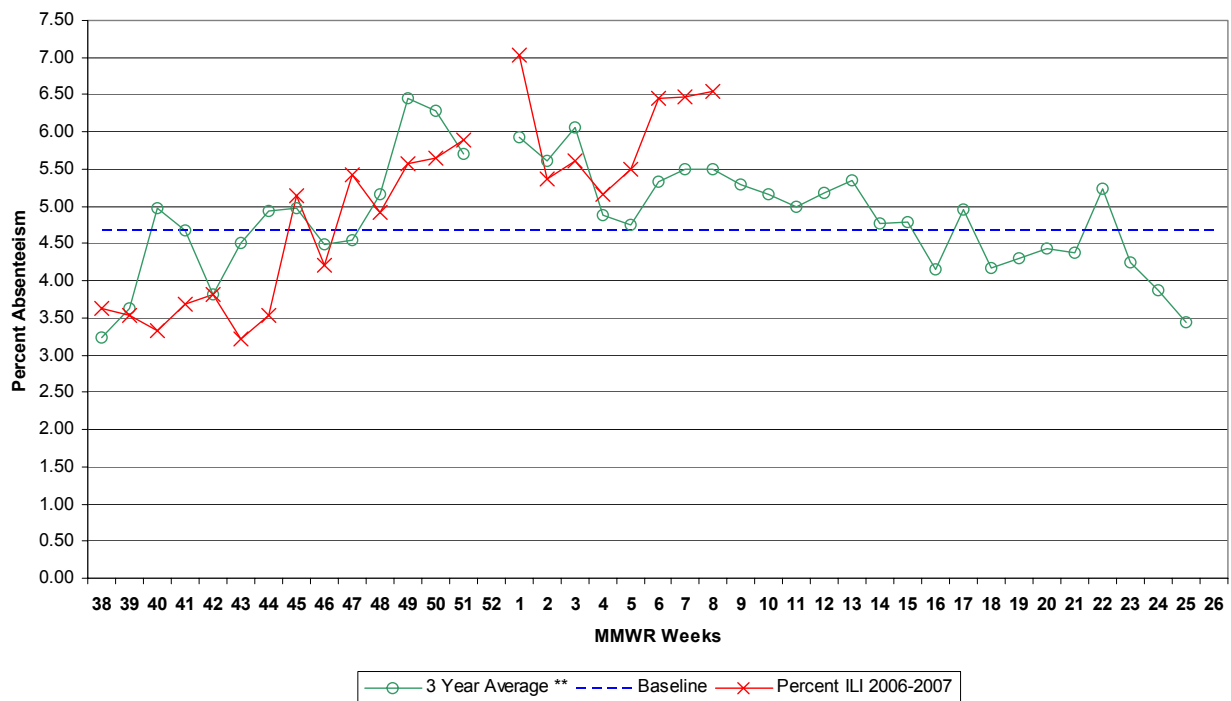
New Jersey Department of Health and Senior Services Influenza-like Activity - Long Term Care Facilities



School Absenteeism

During week 8, schools reported 6.55% absenteeism. This is an increase over the previous week (6.48%). The percent ILI for each county ranged from 1.43- 9.88%. The percent absent for this same week last year was 5.45%. The percent ILI for the northwest (6.37%), the northeast (7.13%), the central west (4.73%), the central east (7.22%) and the south (6.69%) public health regions were above state baseline (4.68%).

New Jersey Department of Health and Senior Services Influenza-like Activity - School Absenteeism



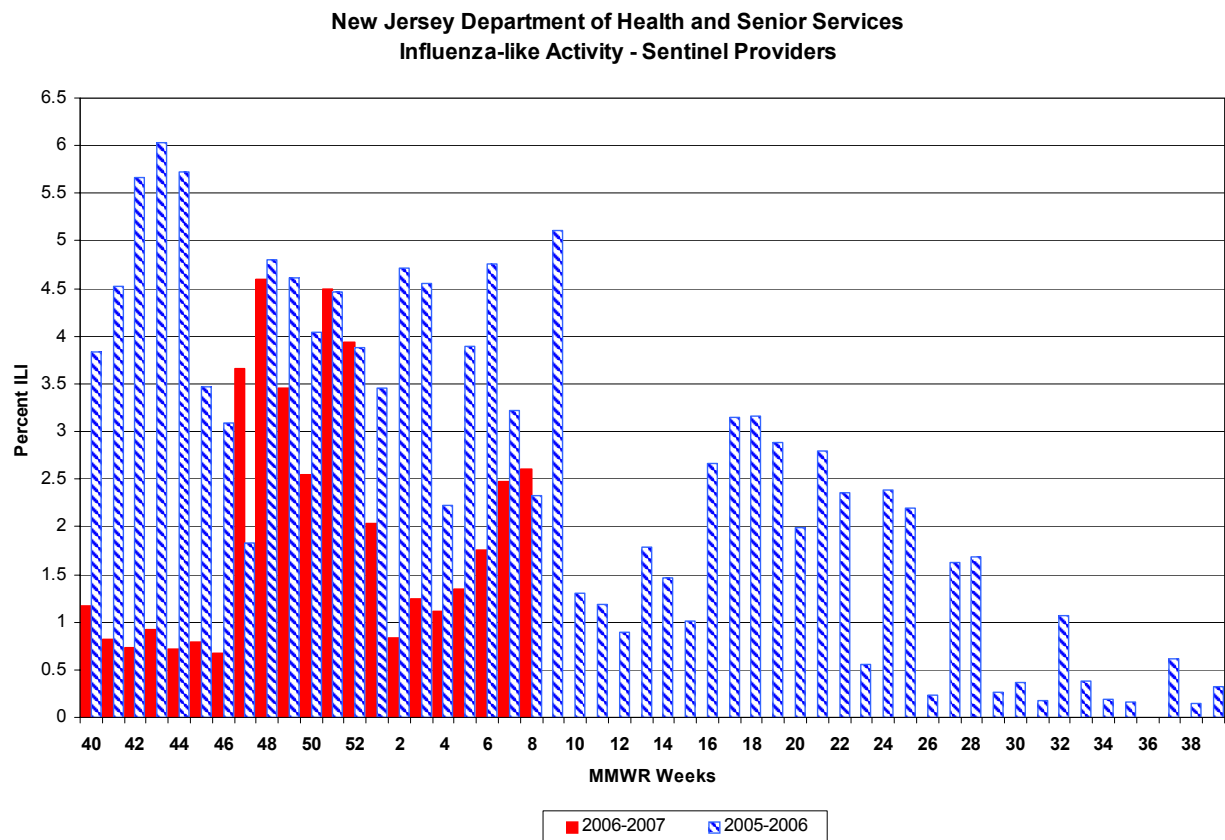
Sentinel Provider Surveillance

During week 8, 2.61% of sentinel provider patient visits were due to ILI. These data reflect reports from six (13%) of the enrolled sentinel providers.

UPDATE

During week 7, 2.48% of sentinel provider patient visits were due to ILI. These data reflect reports from thirteen (28%) of the enrolled sentinel providers.

During week 6, 1.75% of sentinel provider patient visits were due to ILI. These data reflect reports from fifteen (32%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

To date, NJDHSS has received 44 reports of pediatric illness. To date, four cases have met the case definition for pediatric illness or death associated with influenza.

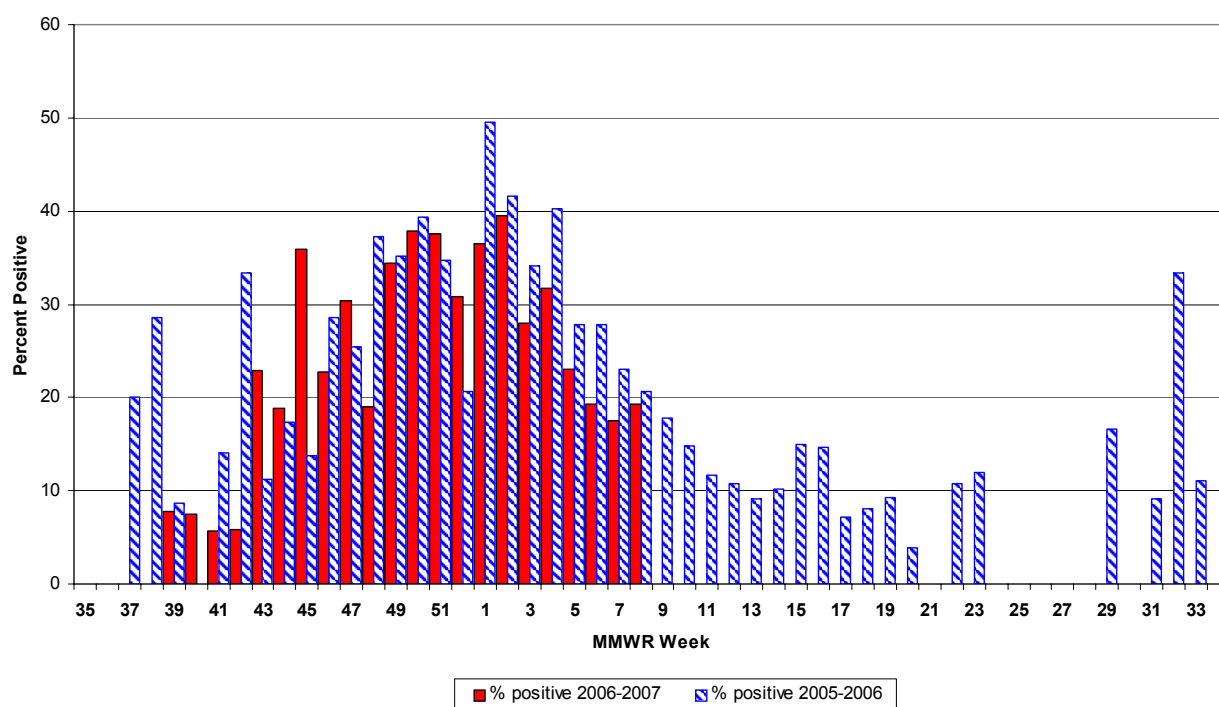
122 City Mortality Report

During week 7, 9.21% of all deaths reported by the vital statistics offices in 4 New Jersey cities (i.e., Elizabeth, Newark, Jersey City, Trenton) were due to pneumonia or influenza. During week 6, 5.81% of all deaths reported by the vital statistics offices in 5 New Jersey cities (i.e., Elizabeth, Newark, Paterson, Jersey City, Trenton) were due to pneumonia or influenza. The percentage of death due to pneumonia or influenza for week 7 last year was 4.02% and for week 6 last year was 5.52%.

RSV Reports

During week 8, 19.28% of all RSV samples tested were positive. This was an increase over the previous week 17.48%. The percent of samples positive RSV for this same week last year was 20.64%.

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



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 3 year (2004, 2005, 2006) 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.

**Three year average is an average of the 2003-2004, 2004-2005, and 2005-2006 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	1	1.14	16	15	8.22	4	4	0.89	12	34
BERGEN	3	0	0.00	11	0	0.00	6	0	0.00	0	0
BURLINGTON	6	5	0.00	103	69	6.24	3	3	1.30	1	17
CAMDEN	7	5	0.25	17	5	5.29	7	6	2.68	0	0
CAPE MAY	4	2	0.58	11	10	7.53	1	1	9.90	0	0
CUMBERLAND	4	2	1.66	18	3	9.88	3	3	7.72	2	7
ESSEX	14	5	0.29	31	9	6.19	11	10	5.35	36	164
GLOUCESTER	2	2	0.54	4	4	5.60	2	1	0.00	4	9
HUDSON	10	3	1.28	76	42	7.34	8	2	4.56	0	12
HUNTERDON	4	4	0.44	8	8	4.12	1	1	0.00	1	4
MERCER	10	5	1.64	12	11	4.51	5	4	5.09	3	15
MIDDLESEX	2	1	0.00	16	7	5.60	5	2	15.21	2	43
MONMOUTH	5	1	1.56	24	13	8.61	5	5	3.44	3	22
MORRIS	11	3	0.53	14	1	1.43	4	4	1.93	2	15
OCEAN	6	2	3.46	24	17	7.97	4	4	5.51	0	0
PASSAIC	8	5	1.81	22	5	5.06	6	1	3.97	0	0
SALEM	4	2	0.50	5	0	0.00	1	1	4.41	0	0
SOMERSET	5	3	1.96	53	22	5.07	2	2	18.91	0	0
SUSSEX	5	5	1.70	18	4	8.13	2	2	1.69	2	3
UNION	4	1	0.00	80	29	6.57	5	5	5.10	0	5
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	6	2.37	21	19	6.37	2	2	12.41	2	13
NW Region	31	19	1.53	75	29	6.37	14	9	3.87	6	31
NE Region	27	8	0.64	118	51	7.13	25	12	5.21	36	176
CW Region	19	12	1.32	73	41	4.73	8	7	8.76	4	19
CE Region	17	5	2.00	144	66	7.22	19	16	6.44	5	70
South Region	32	19	0.47	174	106	6.69	21	19	2.94	19	67
State Total	126	63	1.04	584	293	6.55	87	63	5.15	70	363