

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending December 1, 2007 (MMWR Week 48)

Influenza activity level: **SPORADIC**

NOTE: Two of three reporting parameter were above baseline for the state. Rapid positive tests were reported from the CW and South region.

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

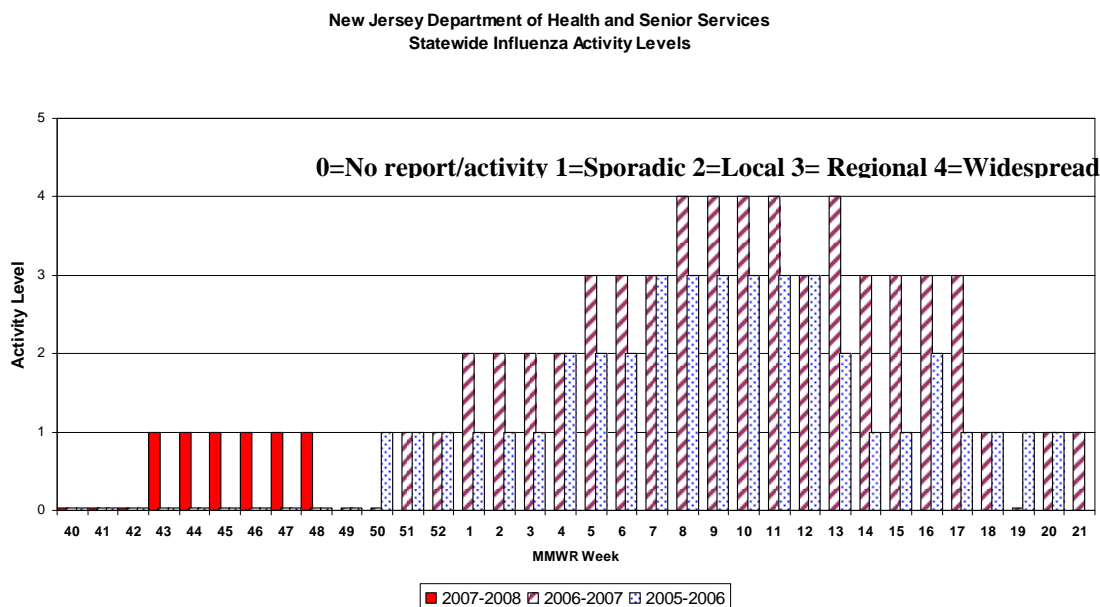
Local – At least 2 or 3 parameters above state baseline in a single county **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county

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

NOTE: No culture confirmed influenza cases were received from any counties.

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)

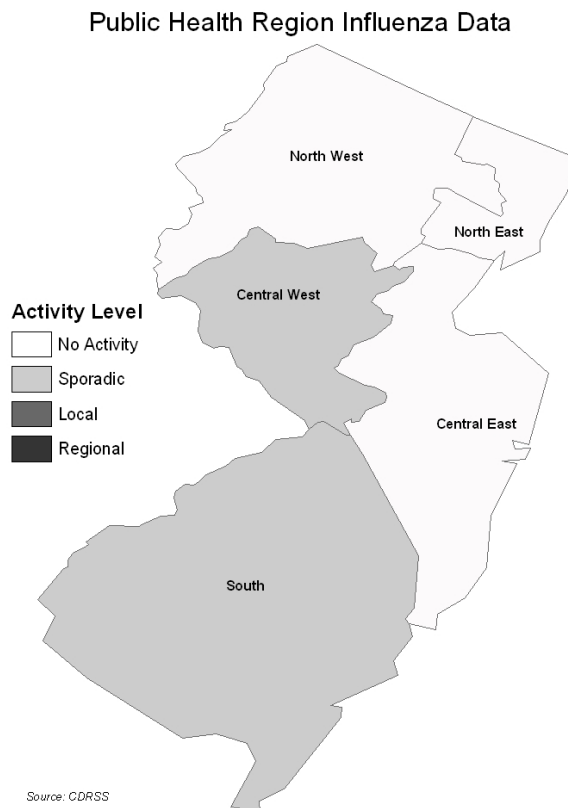
No Activity - At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases in the public health region

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 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 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

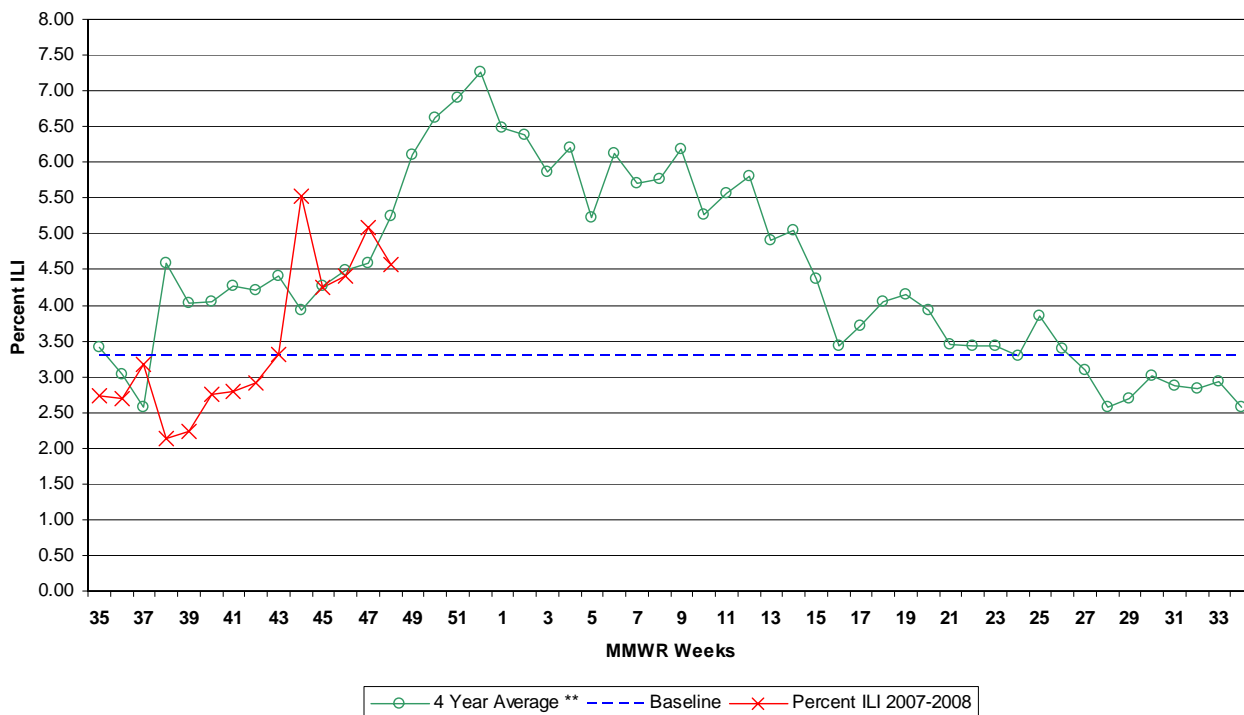
Rapid positive results were reported from the central west and south public health regions in the week 48. In week 44, one specimen from Middlesex County was been found to be positive by culture for influenza B. In week 47, on specimen from Bergen County was found to be positive by culture for influenza A.

Influenza-like Illness (ILI) Surveillance*

Emergency Departments

During week 48, 4.56% ILI was reported statewide from emergency departments. This is a decrease over the previous week (5.08%). The percent ILI for each county ranged from 0.00 to 12.26%. The percent ILI for this same week last year was 4.78% in emergency departments. The percent ILI for the northwest (7.72%), northeast (3.48%), central west (3.90%), central east (3.55%), and south (5.12%) public health regions were above state baseline (3.30%).

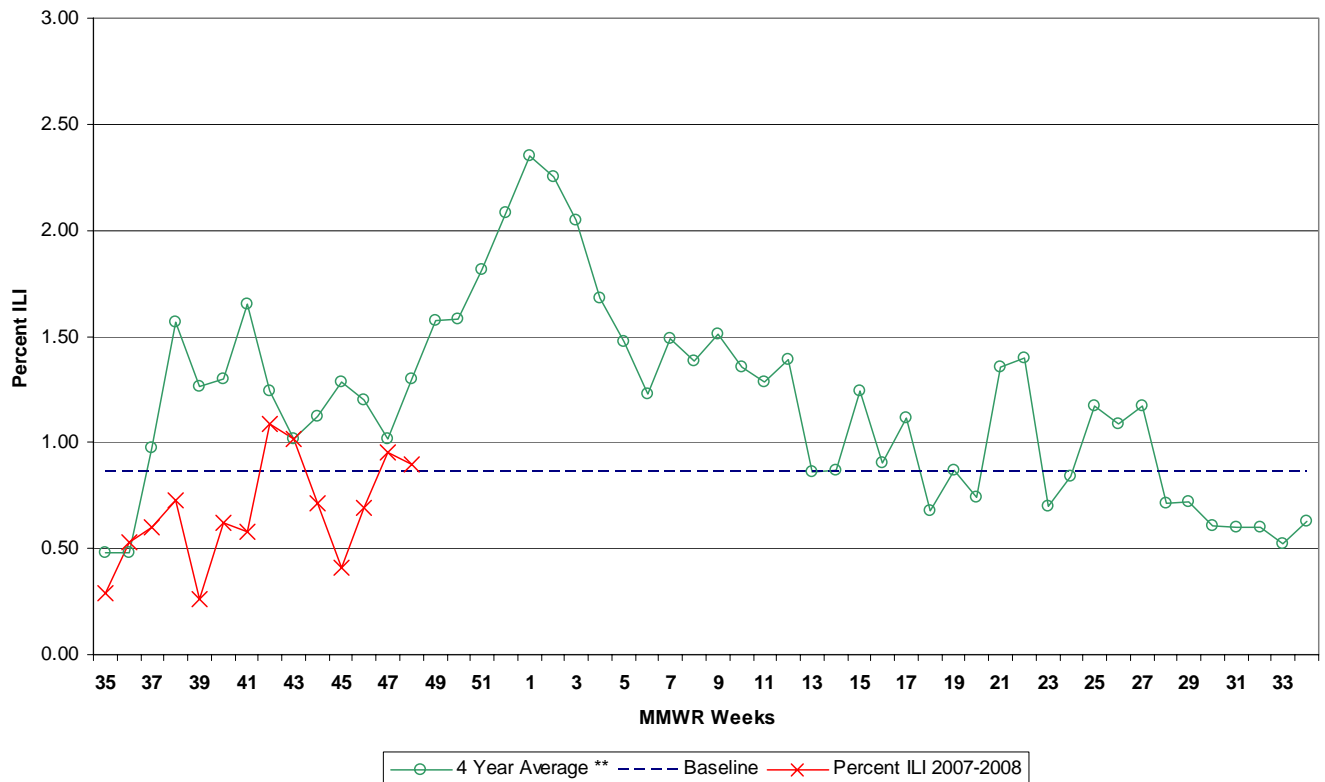
**New Jersey Department of Health and Senior Services
Influenza-like Activity - Emergency Departments**



Long-term Care Facilities

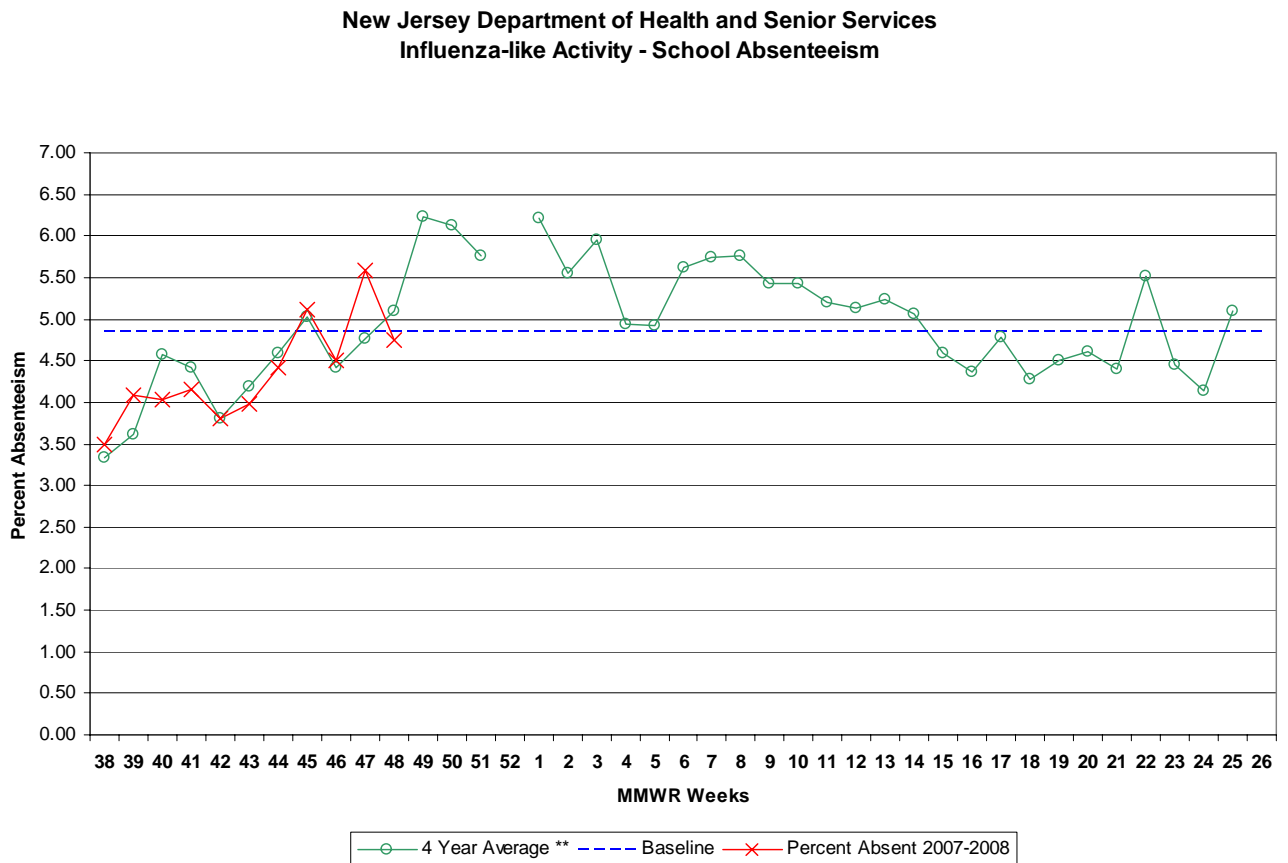
During week 48, 0.90% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (1.95%). The percent ILI for each county ranged from 0.00% to 3.17%. The percent ILI for this same week last year was 0.58% in long-term care facilities. The percent ILI for the northwest (1.44%) and northeast (1.83%) public health regions were above state baseline (0.86%). No report regarding ILI/respiratory outbreaks in communal living facilities were received in week 48.

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



School Absenteeism

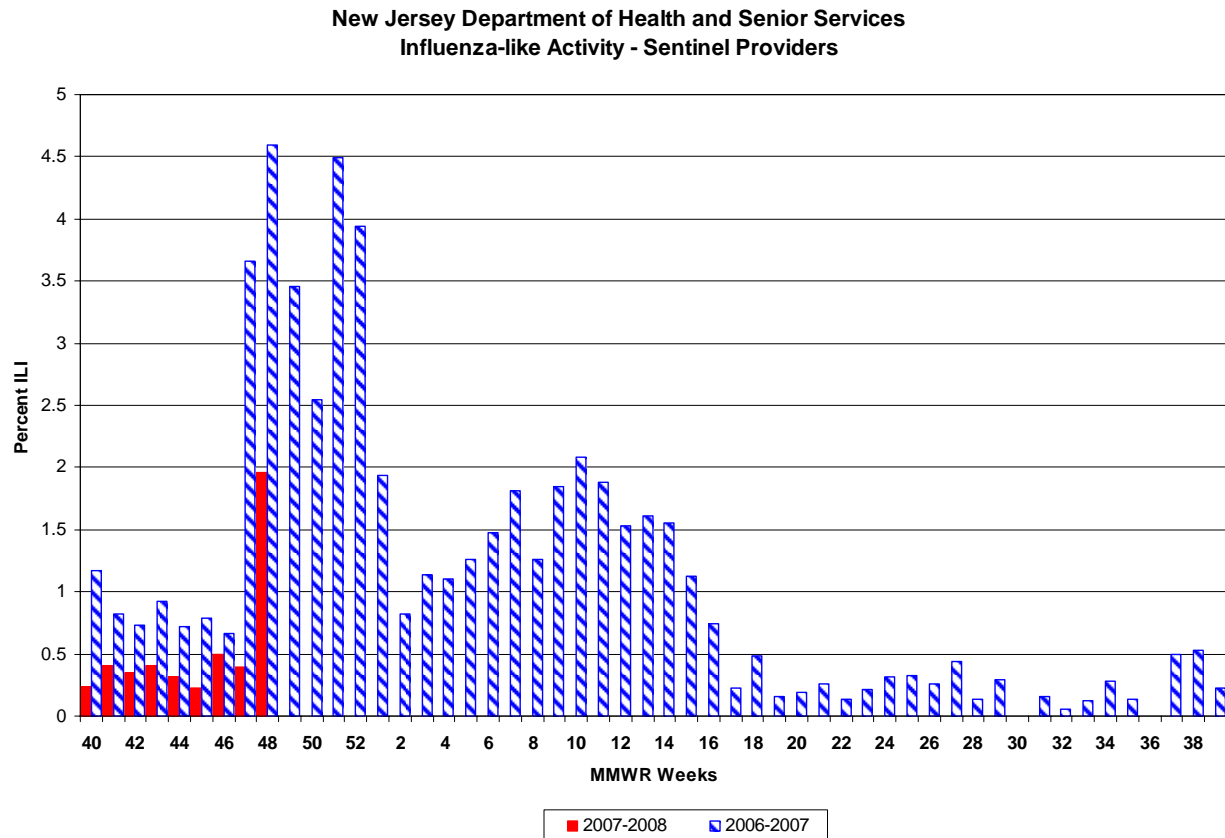
During week 48, schools reported 4.74% absenteeism. This is a decrease over the previous week (5.59%). The percent ILI for each county ranged from 1.67 – 7.59%. The percent absent for this same week last year was 4.92%. The percent ILI for the northwest (5.77%), northeast (4.90%), and south (5.13%) public health regions were above state baseline (4.85%).



Sentinel Provider Surveillance

During week 48, 1.96% of sentinel provider patient visits were due to ILI. These data reflect reports from six (15%) of the enrolled sentinel providers.

During week 47, 0.39% of sentinel provider patient visits were due to ILI. These data reflect reports from twelve (31%) 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

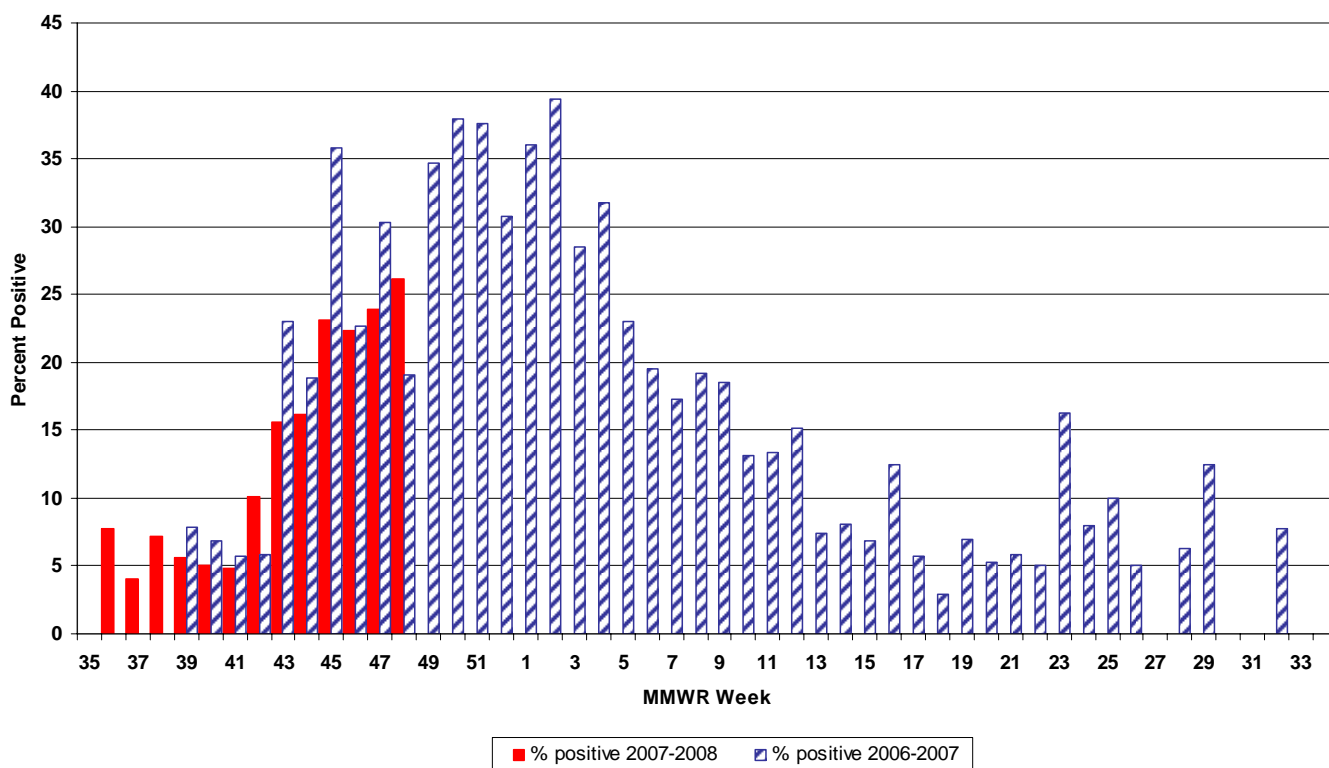
122 City Mortality Report

During week 47, 5.71% 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 a decrease as the previous week (9.40%). The percentage of death due to pneumonia or influenza for this same week last year was 3.73%.

RSV Reports

During week 48, 26.18% of all RSV samples tested were positive. This was an increase over the previous week 23.96%. The percent of samples positive for RSV for this same week last year was 19.03%.

**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 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	1.17	18	14	7.38	4	4	1.75	5	26
BERGEN	3	0	0.00	14	0	0.00	6	0	0.00	0	0
BURLINGTON	6	3	0.00	104	62	4.33	3	2	0.64	0	0
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	0	0
CAPE MAY	5	2	1.81	11	9	5.07	1	1	7.92	1	7
CUMBERLAND	4	2	1.08	18	10	6.78	3	3	5.41	2	7
ESSEX	14	0	0.00	31	5	1.67	11	4	3.48	16	54
GLOUCESTER	2	1	3.17	6	3	4.37	2	2	11.50	1	3
HUDSON	10	4	1.83	86	65	5.01	8	1	0.00	3	8
HUNTERDON	4	4	0.66	8	8	3.52	1	1	0.00	3	12
MERCER	10	6	0.00	21	15	3.30	5	3	4.82	8	29
MIDDLESEX	2	1	0.00	46	15	4.84	5	1	11.90	2	14
MONMOUTH	6	0	0.00	25	6	3.99	5	4	0.60	6	18
MORRIS	11	0	0.00	14	0	0.00	4	0	0.00	0	0
OCEAN	6	1	0.00	27	12	4.92	4	3	4.19	0	0
PASSAIC	8	3	2.39	23	7	7.59	6	1	6.92	0	0
SALEM	4	1	0.00	5	0	0.00	1	1	0.00	0	0
SOMERSET	5	3	0.00	62	29	3.25	2	0	0.00	2	4
SUSSEX	5	5	0.85	24	24	5.52	2	2	3.45	0	5
UNION	4	0	0.00	118	42	4.66	5	5	3.78	1	4
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	4	2.21	21	18	4.73	2	2	12.26	0	0
NW Region	31	12	1.44	82	49	5.77	14	5	7.72	0	5
NE Region	27	4	1.83	131	70	4.90	25	5	3.48	19	62
CW Region	19	13	0.21	91	52	3.30	8	4	3.90	13	45
CE Region	18	2	0.00	216	75	4.65	19	13	3.55	9	36
South Region	33	10	0.71	179	98	5.13	21	13	5.12	9	43
State Total	128	41	0.90	699	344	4.74	87	40	4.56	50	191