

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending April 28, 2007 (MMWR Week 17)

Influenza activity level: **REGIONAL**

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 of 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

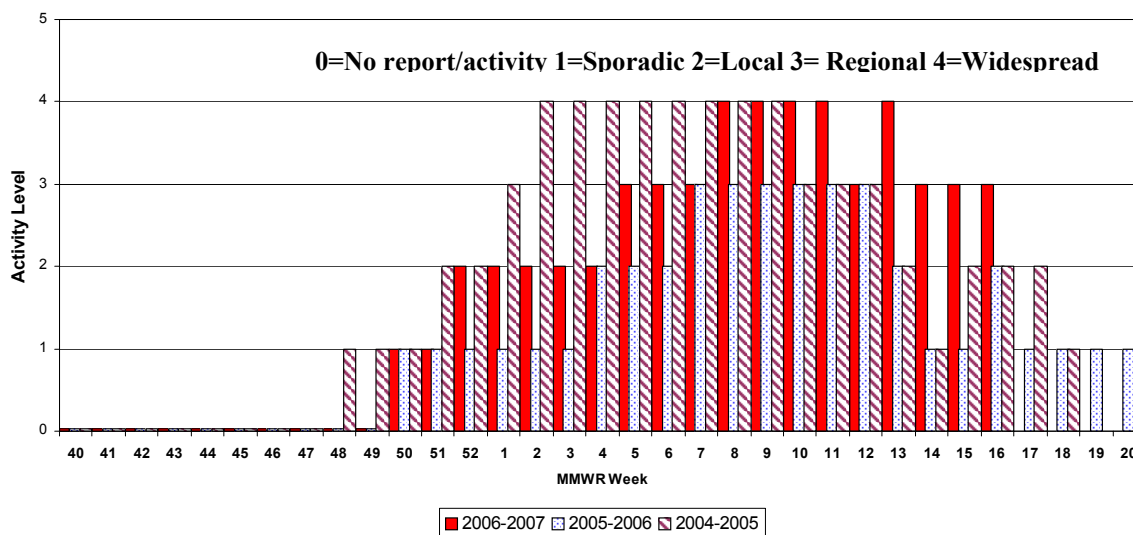
Regional – At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties

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.

New Jersey Department of Health and Senior Services
Statewide Influenza Activity Levels



Regional Data

REGIONAL - NE
LOCAL ACTIVITY – CE
SPORADIC ACTIVITY – NW and CW
NO ACTIVITY- SOUTH

NOTE: Two of the 3 counties in the NE public health region had parameters which were above state baseline and laboratory confirmed influenza cases were reported in the past 3 weeks. One county in the CE public health region was above state baseline and had laboratory confirmed influenza by viral isolation in the previous three weeks. In the NW and CW public health regions, parameters were above baseline and positive laboratories were reported in the past 3 weeks. In the south public health region, no positive laboratory reports were received.

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

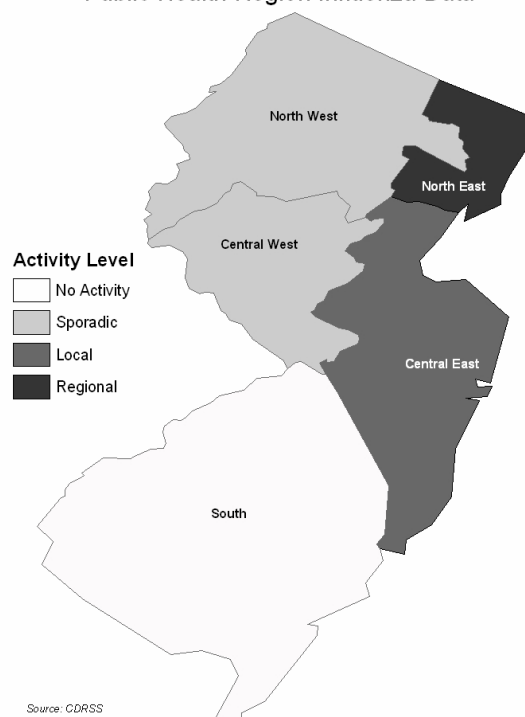
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

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, 462 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 H1	123	Camden	1	50
		Bergen	1	51
		Morris	1	2
		Union	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	4	6
		Union	2	6
		Camden	1	6
		Middlesex	1	6
		Essex	3	7
		Middlesex	4	7
		Monmouth	2	7
		Morris	1	7
		Somerset	3	7
		Union	4	7
		Warren	1	7
		Essex	4	8
		Hudson	1	8
		Middlesex	3	8
		Mercer	1	8
		Monmouth	5	8
		Morris	1	8
		Somerset	3	8
		Union	3	8
		Warren	1	8
		Essex	2	9
		Gloucester	1	9
		Mercer	3	9
		Middlesex	4	9
		Monmouth	3	9
		Morris	1	9
		Passaic	1	9
		Somerset	3	9
		Warren	1	9
		Cape May	1	10
		Essex	1	10
		Gloucester	2	10
		Hunterdon	2	10
		Middlesex	7	10
		Monmouth	2	10
		Morris	1	10
		Ocean	1	10
		Union	2	10
		Unknown	1	10
		Essex	1	11
		Hunterdon	1	11
		Mercer	1	11
		Middlesex	6	11
		Monmouth	1	11
		Morris	1	11
		Passaic	2	11
		Somerset	1	11
		Union	2	11
		Unknown	1	11
		Essex	1	12
		Middlesex	4	12
Influenza A H3	145	Middlesex	1	1
		Essex	1	3
		Hunterdon	1	3
		Monmouth	1	3
		Monmouth	1	4
		Passaic	1	4
		Unknown	1	4
		Mercer	1	5
		Sussex	1	5
		Passaic	1	5
		Middlesex	1	6
		Monmouth	1	6
		Mercer	1	6
		Passaic	2	6
		Hudson	1	7
		Mercer	4	7
		Middlesex	6	7
		Monmouth	1	7
		Morris	1	7
		Ocean	1	7
		Passaic	2	7
		Somerset	3	7
		Camden	1	8
		Essex	1	8
		Gloucester	2	8
		Mercer	1	8
		Middlesex	6	8
		Monmouth	1	8
		Morris	2	8
		Passaic	1	8
		Somerset	1	8
		Union	2	8
		Out of state	1	8
		Bergen	2	9
		Essex	2	9
		Gloucester	8	9
		Hunterdon	2	9
		Hudson	1	9
		Mercer	2	9
		Middlesex	5	9
		Monmouth	1	9
		Morris	1	9
		Somerset	1	9
		Out of state	2	9
		Burlington	1	10
		Essex	3	10
		Gloucester	5	10
		Hudson	2	10
		Hunterdon	4	10
		Mercer	2	10
		Middlesex	3	10
		Monmouth	4	10
		Morris	1	10
		Passaic	3	10
		Somerset	7	10
		Union	2	10
		Warren	1	10
		Unknown	1	10
		Out of state	1	10
		Bergen	1	11
		Essex	1	11
		Hunterdon	1	11
		Mercer	2	11

Influenza A H3 Continued	Middlesex	4	11
	Morris	3	11
	Passaic	3	11
	Somerset	1	11
	Union	1	11
	Out of state	1	11
	Essex	1	12
	Gloucester	1	12
	Middlesex	1	12
	Morris	1	12
	Passaic	2	12
	Somerset	1	12

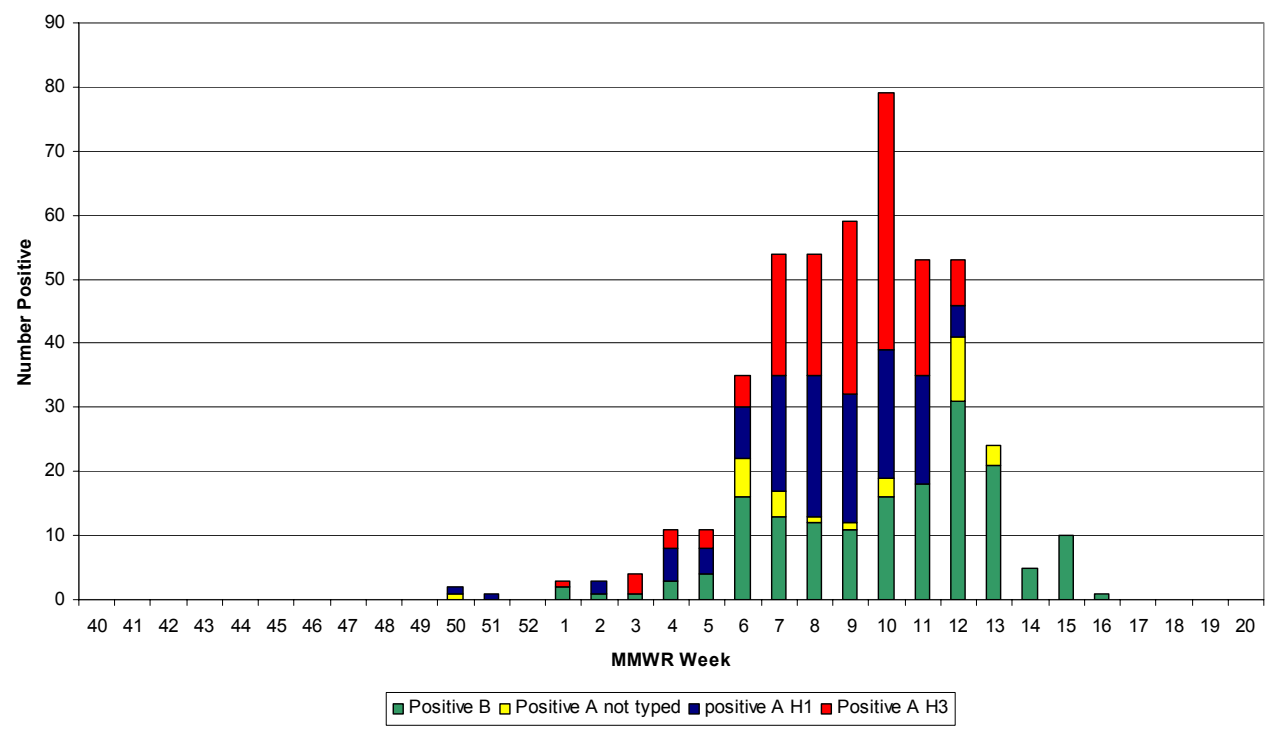
Influenza B Continued	Middlesex	1	11
	Monmouth	1	11
	Morris	1	11
	Passaic	1	11
	Somerset	1	11
	Union	6	11
	Unknown	1	11
	Bergen	3	12
	Essex	2	12
	Hunterdon	1	12
	Mercer	1	12
	Middlesex	4	12
	Monmouth	1	12
	Morris	4	12
	Ocean	1	12
	Passaic	2	12
	Somerset	1	12
	Union	9	12
	Unknown	1	12
	Out of state	1	12
	Bergen	2	13
	Essex	3	13
	Gloucester	1	13
	Hunterdon	2	13
	Middlesex	3	13
	Morris	1	13
	Passaic	1	13
	Union	6	13
	Unknown	2	13
	Gloucester	1	14
	Hudson	1	14
	Passaic	1	14
	Sussex	1	14
	Somerset	1	14
	Essex	1	15
	Hudson	2	15
	Hunterdon	1	15
	Middlesex	4	15
	Passaic	1	15
	Sussex	1	15

Influenza Type	Number positive	County Data		
		County	# positive	MMWR Week
Influenza B	165	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	2	6
		Monmouth	7	6
		Morris	1	6
		Warren	1	6
		Burlington	1	7
		Essex	1	7
		Hudson	1	7
		Middlesex	1	7
		Monmouth	4	7
		Morris	1	7
		Somerset	1	7
		Union	3	7
		Essex	2	8
		Mercer	1	8
		Middlesex	1	8
		Monmouth	4	8
		Morris	2	8
		Passaic	2	8
		Gloucester	1	9
		Middlesex	4	9
		Monmouth	3	9
		Passaic	1	9
		Somerset	1	9
		Union	1	9
		Atlantic	1	10
		Essex	2	10
		Gloucester	1	10
		Hunterdon	1	10
		Middlesex	3	10
		Monmouth	2	10
		Morris	1	10
		Ocean	1	10
		Somerset	1	10
		Union	3	10
		Bergen	1	11
		Essex	2	11
		Hudson	1	11
		Hunterdon	1	11
		Mercer	1	11

Influenza Type	Number positive	County Data		
		County	# positive	MMWR Week
Influenza A – Not typed	29	Camden	1	50
		Bergen	3	6
		Passaic	2	6
		Sussex	1	6
		Bergen	2	7
		Hudson	1	7
		Union	1	7
		Bergen	1	8
		Unknown	1	9
		Bergen	1	10
		Mercer	1	10
		Morris	1	10
		Bergen	7	12
		Essex	1	12
		Passaic	2	12
		Ocean	2	13
		Out of state	1	13

NOTE: Information on county of residence may be obtained after original laboratory report. The county of residence is updated each week to account the correct information on each case.

New Jersey Department of Health and Senior Services
Influenza Laboratory Report
Viral Culture Positive Specimens by MMWR Week

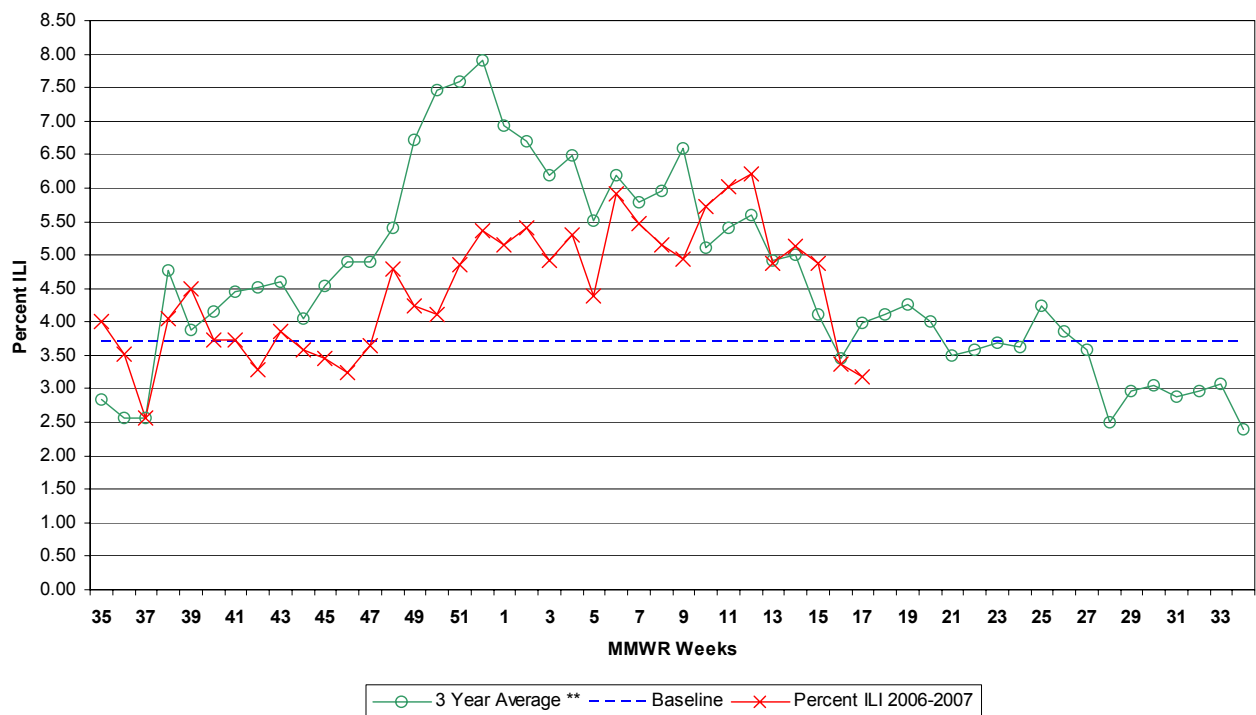


Influenza-like Illness (ILI) Surveillance*

Emergency Departments

During week 17, 3.19% ILI was reported statewide from emergency departments. This is a decrease over the previous week (3.37%). The percent ILI for each county ranged from 0.00 to 12.38%. The percent ILI for this same week last year was 4.11% in emergency departments. The percent ILI for the central west (4.63%) public health region was above state baseline (3.71%).

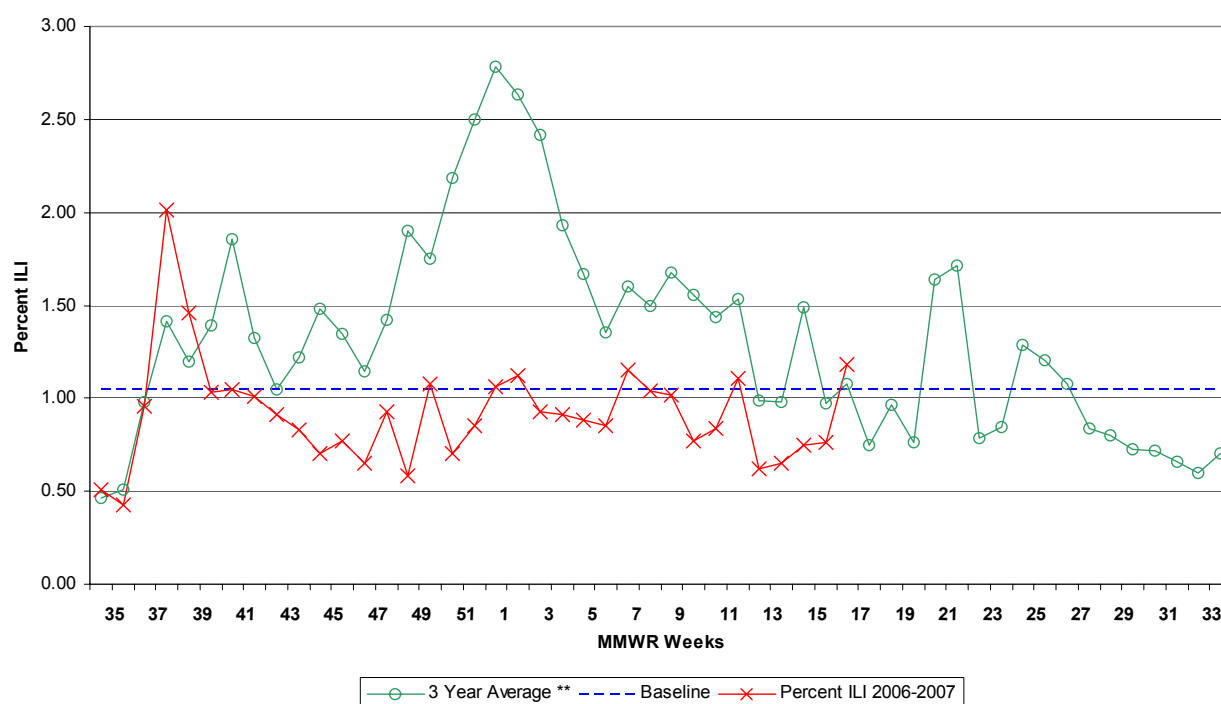
New Jersey Department of Health and Senior Services Influenza-like Activity - Emergency Departments



Long-term Care Facilities

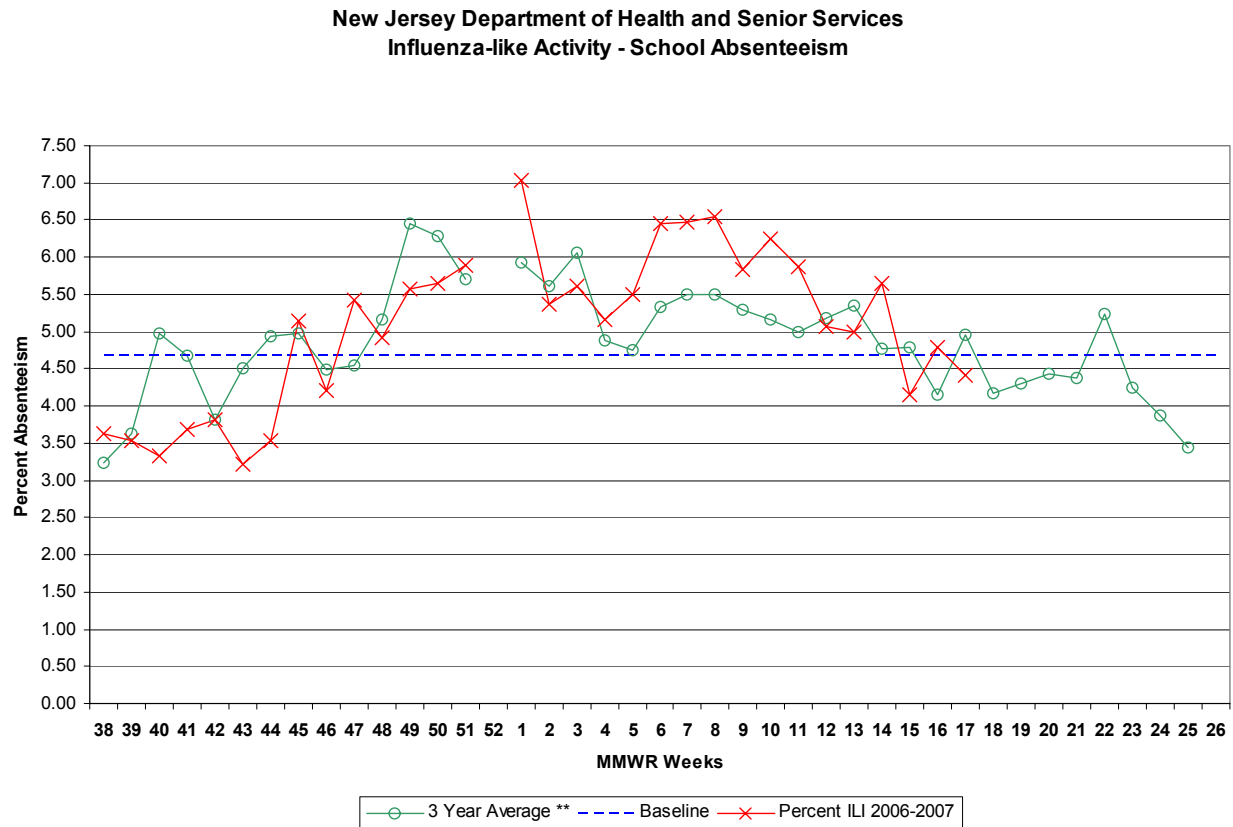
During week 17, 1.18% ILI was reported statewide from long term care facilities. This is an increase over the previous week (0.76%). The percent ILI for each county ranged from 0.00% to 7.55%. The percent ILI for this same week last year was 0.58% in long-term care facilities. The percent ILI for the northwest (1.65%), northeast (1.52%), and central east (1.34%) public health regions were above baseline (1.05%). One report regarding ILI/respiratory outbreaks in communal living facilities was received in week 17.

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



School Absenteeism

During week 17, schools reported 4.42% absenteeism. This is a decrease over the previous week (4.79%). The percent ILI for each county ranged from 2.08– 7.19%. The percent absent for this same week last year was 5.15%. The percent ILI for the northeast (4.97%), central east (4.73%), and south (4.83%) public health regions were above state baseline (4.68%).



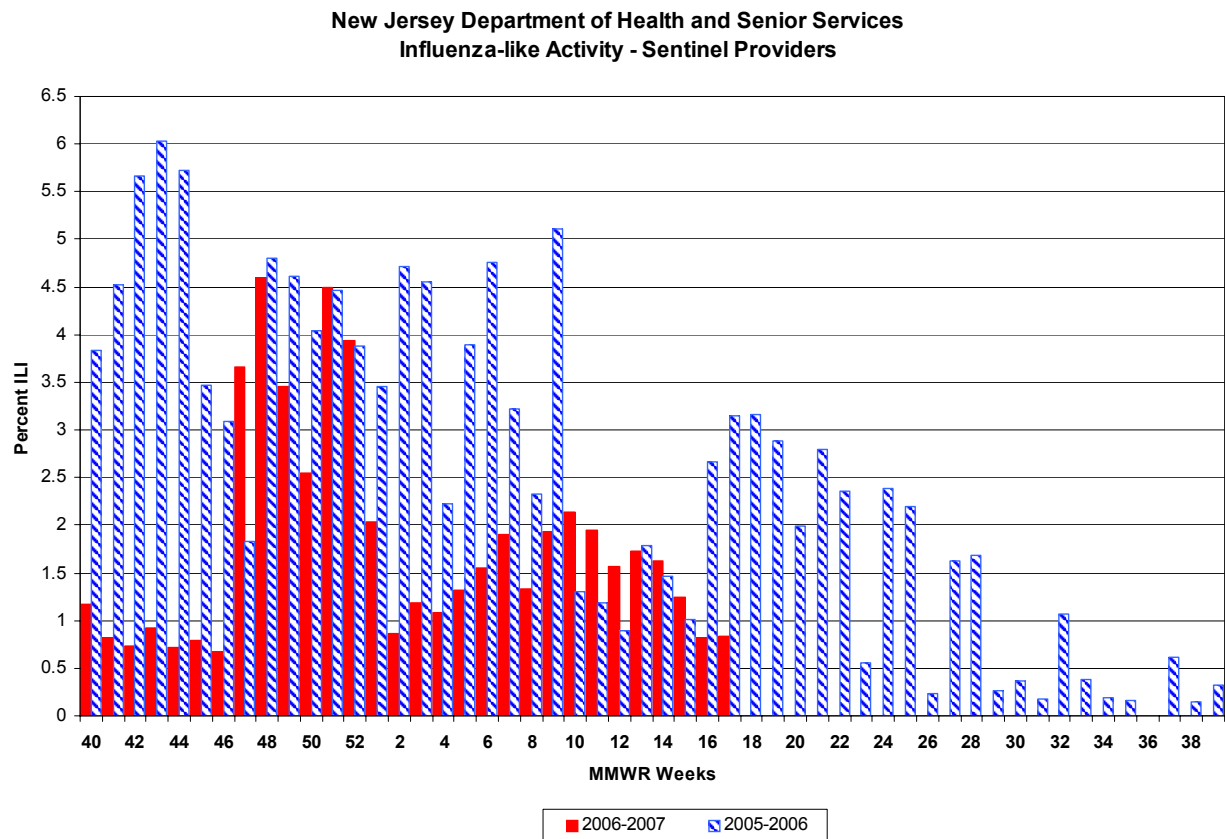
Sentinel Provider Surveillance

During week 17, 0.83% of sentinel provider patient visits were due to ILI. These data reflect reports from four (9%) of the enrolled sentinel providers.

UPDATE

During week 16, 0.82% of sentinel provider patient visits were due to ILI. These data reflect reports from fifteen (33%) of the enrolled sentinel providers.

During week 15, 1.24% of sentinel provider patient visits were due to ILI. These data reflect reports from sixteen (35%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

To date, NJDHSS has received 96 reports of pediatric illness. To date, 11 cases have met the case definition for pediatric illness or death associated with influenza.

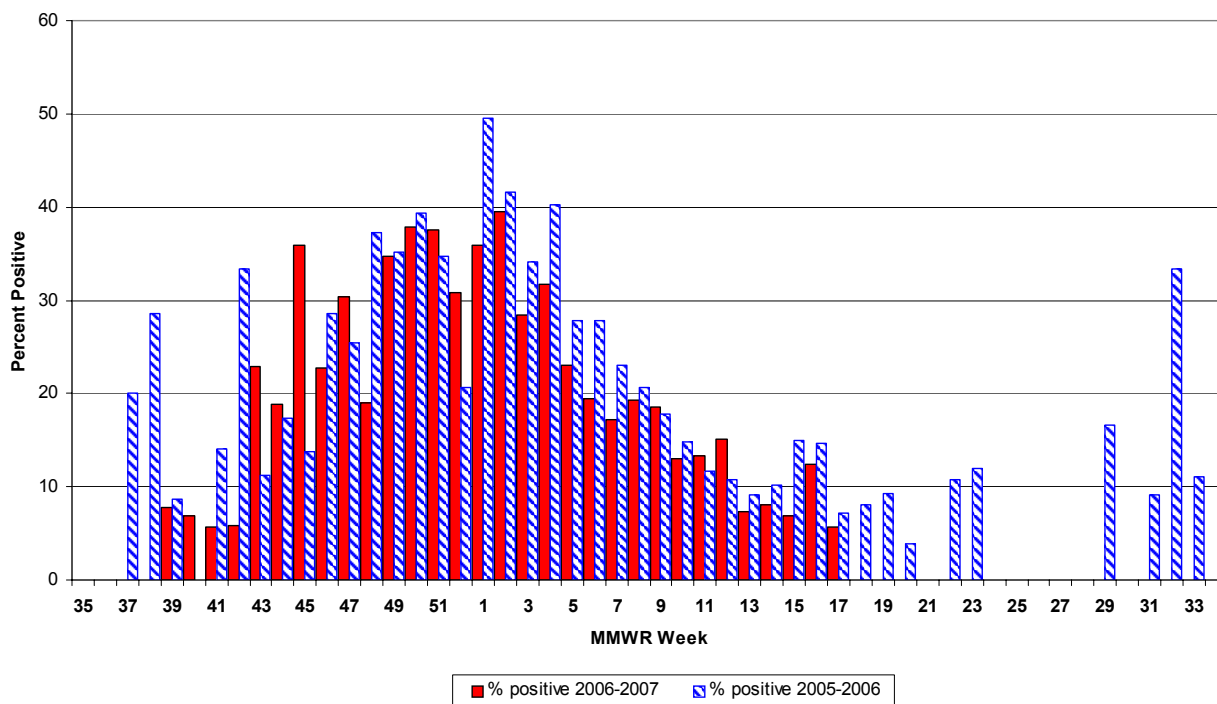
122 City Mortality Report

During week 16, 5.10% 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 over the previous week (3.33%). The percentage of death due to pneumonia or influenza for this same week last year was 3.35%.

RSV Reports

During week 17, 5.73% of all RSV samples tested were positive. This was a decrease over the previous week 12.46%. The percent of samples positive RSV for this same week last year was 7.14%.

**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	2	1.09	16	15	7.19	4	4	0.88	0	16
BERGEN	3	0	0.00	14	8	3.29	6	0	0.00	0	6
BURLINGTON	6	3	0.00	103	49	3.68	3	2	1.22	1	12
CAMDEN	7	2	0.40	17	3	3.67	7	3	1.69	0	0
CAPE MAY	4	2	0.00	11	6	3.94	2	1	12.38	0	4
CUMBERLAND	4	2	0.23	18	9	6.78	3	3	5.74	0	4
ESSEX	14	2	1.42	31	8	6.46	11	9	3.29	6	68
GLOUCESTER	2	1	7.55	4	3	3.25	2	2	1.61	0	0
HUDSON	10	1	1.82	76	40	4.86	8	1	3.19	0	5
HUNTERDON	4	4	0.67	8	8	2.74	1	1	1.03	2	2
MERCER	10	5	0.87	12	10	2.08	5	2	2.36	0	14
MIDDLESEX	2	1	4.00	20	6	3.73	5	1	4.92	0	0
MONMOUTH	6	1	3.61	25	13	6.43	5	0	0.00	0	0
MORRIS	11	3	0.88	14	13	2.57	4	2	1.29	0	10
OCEAN	6	2	0.37	27	9	4.44	4	4	3.44	0	0
PASSAIC	8	3	3.27	22	5	3.78	6	0	0.00	0	0
SALEM	4	2	0.00	5	0	0.00	1	1	0.00	0	0
SOMERSET	5	1	1.55	53	15	3.21	2	2	9.00	0	0
SUSSEX	5	5	1.49	20	18	4.52	2	2	0.00	0	2
UNION	4	2	0.65	82	28	4.12	5	5	2.66	0	14
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	2	1.70	21	18	4.54	2	2	10.60	0	0
NW Region	31	13	1.65	77	54	4.03	14	6	3.41	0	12
NE Region	27	3	1.52	121	56	4.97	25	10	3.28	6	79
CW Region	19	10	0.87	73	33	2.73	8	5	4.63	2	16
CE Region	18	6	1.34	154	56	4.73	19	10	3.21	0	14
South Region	32	14	0.52	174	85	4.83	22	16	2.61	1	36
State Total	127	46	1.18	599	284	4.42	88	47	3.19	9	157