

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending April 5, 2008 (MMWR Week 14)

Influenza Activity Level: **REGIONAL**

NOTE: Three of three reporting parameters are above state baseline. Additionally, five counties had 2 of 3 parameters above baseline as well as several laboratory confirmed cases in the previous 3 weeks from these same counties.

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

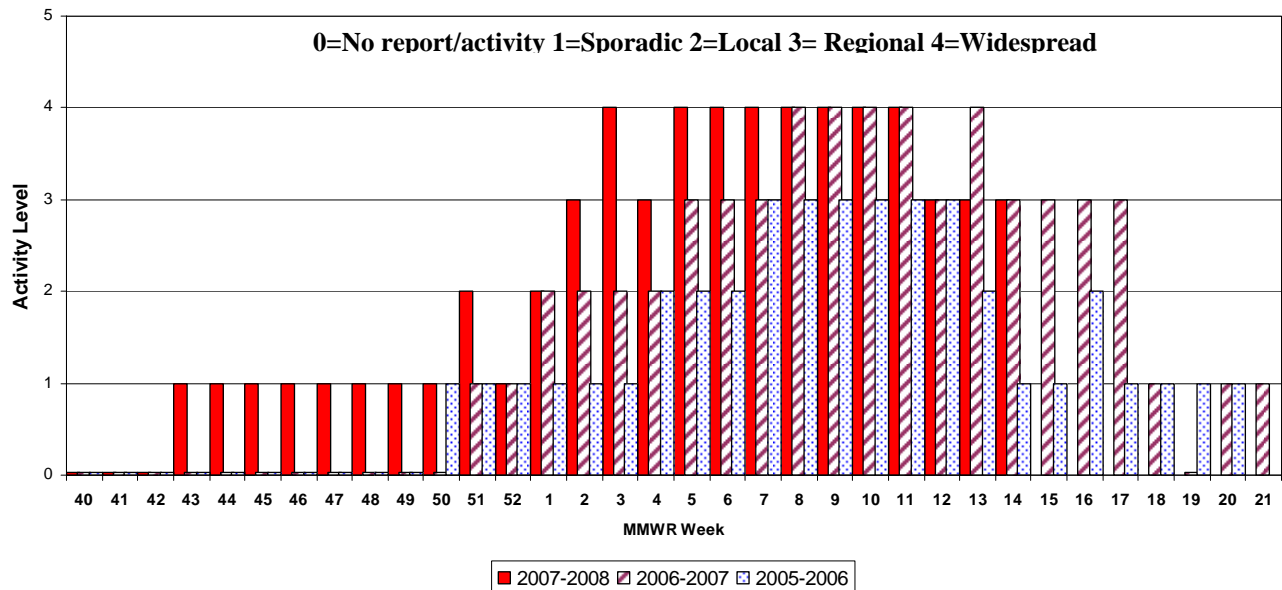
Regional – At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties

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.

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



Regional Data

REGIONAL –NW AND SOUTH LOCAL – NE, CW, CE

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)

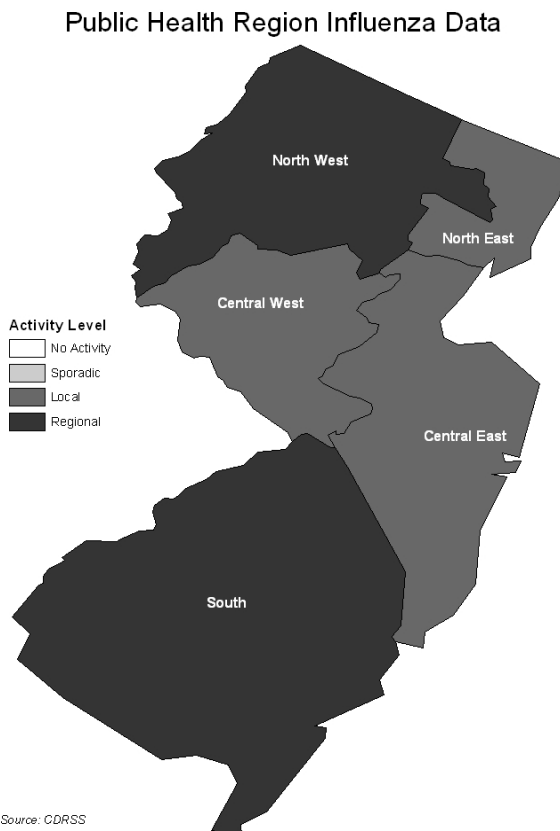
No Activity - At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases in the public health region

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



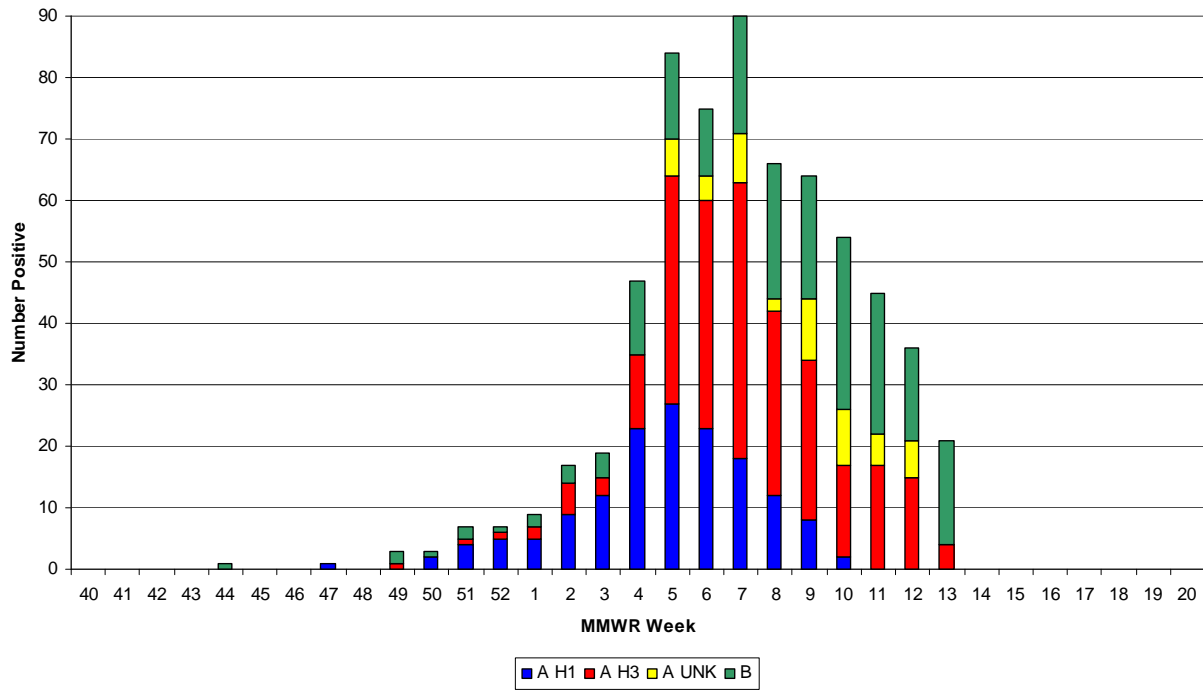
Laboratory Surveillance

As of week 14, 649 samples have been found to be positive by viral culture (151- AH1, 251- AH3 50- A unknown type and 197-B). Rapid and culture results by county are displayed below.

County	Week 40 to Week 14							Weeks 12,13,14						
	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	40	9	0	0	1	1	2	4	1	0	0	1	0	0
Bergen County	79	26	0	5	4	49	26	11	6	0	0	0	6	12
Burlington County	192	36	0	0	1	0	2	18	11	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	1	0	0	0	0	0	0	1	0	0
Cumberland County	0	0	0	0	2	0	1	0	0	0	0	0	0	1
Essex County	224	58	48	9	24	0	16	29	16	0	0	1	0	2
Gloucester County	0	0	0	21	37	0	2	0	0	0	0	0	0	0
Hudson County	24	13	0	12	17	0	18	8	4	0	0	5	0	5
Hunterdon County	0	0	0	8	10	0	11	0	0	0	0	0	0	3
Mercer County	212	94	0	8	8	0	10	15	23	0	0	0	0	0
Middlesex County	43	13	0	11	11	0	11	5	7	0	0	1	0	1
Monmouth County	162	28	158	9	8	0	3	20	7	18	0	0	0	2
Morris County	0	0	0	19	40	0	22	0	0	0	0	4	0	1
Ocean County	0	0	0	1	1	0	1	0	0	0	0	0	0	0
Passaic County	90	40	0	12	6	0	11	15	11	0	0	0	0	0
Salem County	7	1	0	0	0	0	0	0	0	0	0	0	0	0
Somerset County	7	2	14	12	16	0	5	0	0	2	0	2	0	2
Sussex County	48	13	0	0	2	0	3	18	4	0	0	0	0	1
Union County	22	10	0	12	21	0	23	3	3	0	0	1	0	0
Warren County	63	30	0	0	10	0	5	7	18	0	0	1	0	2
Unknown	0	0	0	12	31	0	25	0	0	0	0	2	0	0
State Total	1213	373	220	151	251	50	197	153	111	20	0	19	6	32

*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.

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

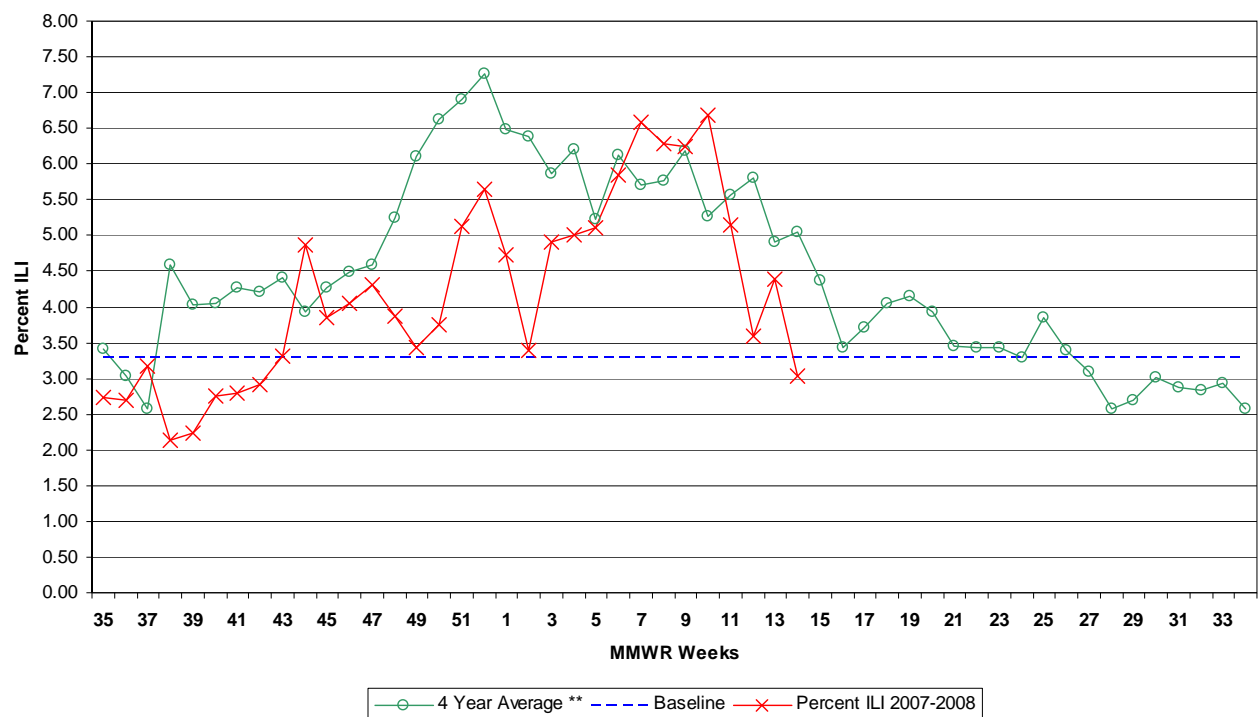


Influenza-like Illness (ILI) Surveillance*

Emergency Departments

During week 14, 3.03% ILI was reported statewide from emergency departments. This is a decrease over the previous week (4.38%). The percent ILI for each county ranged from 0.00 to 12.86%. The percent ILI for this same week last year was 5.14% in emergency departments. The percent ILI for the northwest (4.09%) and central west (3.95%) public health regions were above state baseline (3.30%).

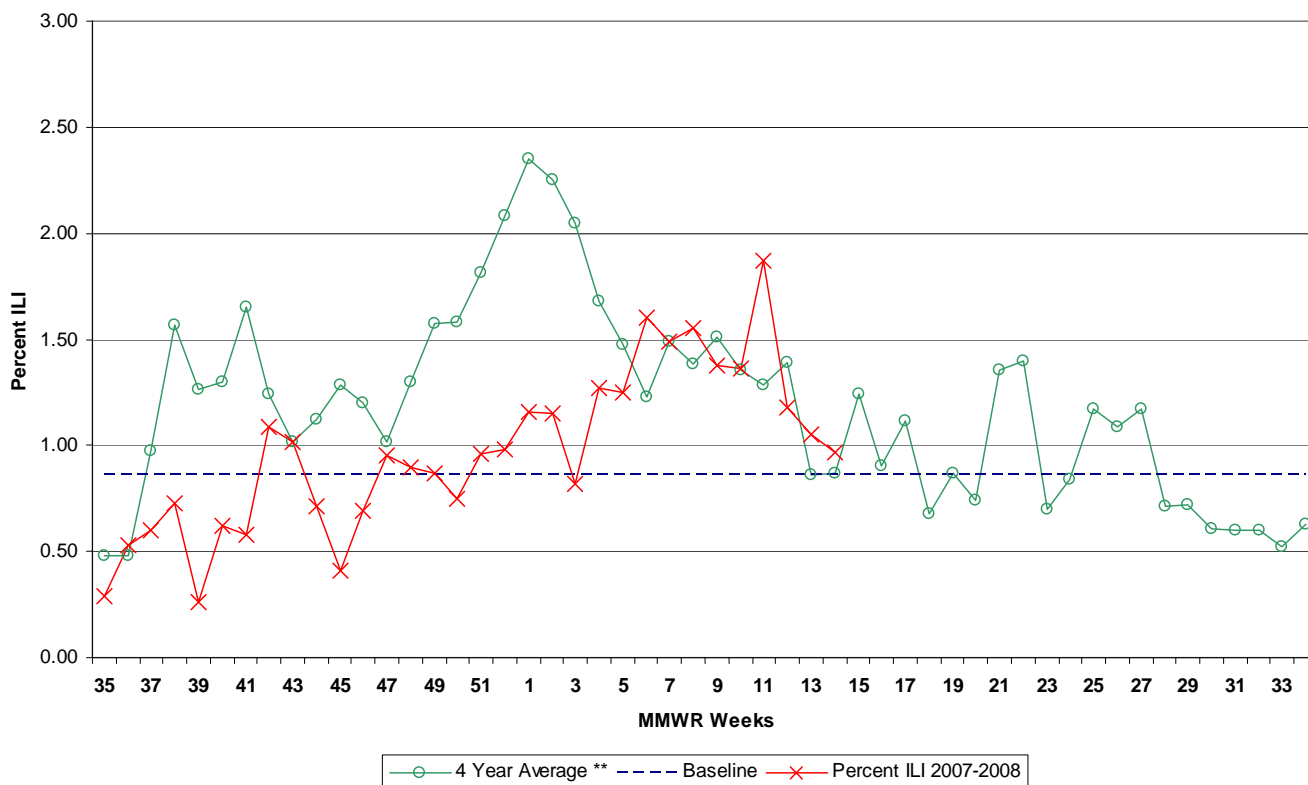
New Jersey Department of Health and Senior Services
Influenza-like Activity - Emergency Departments



Long-term Care Facilities

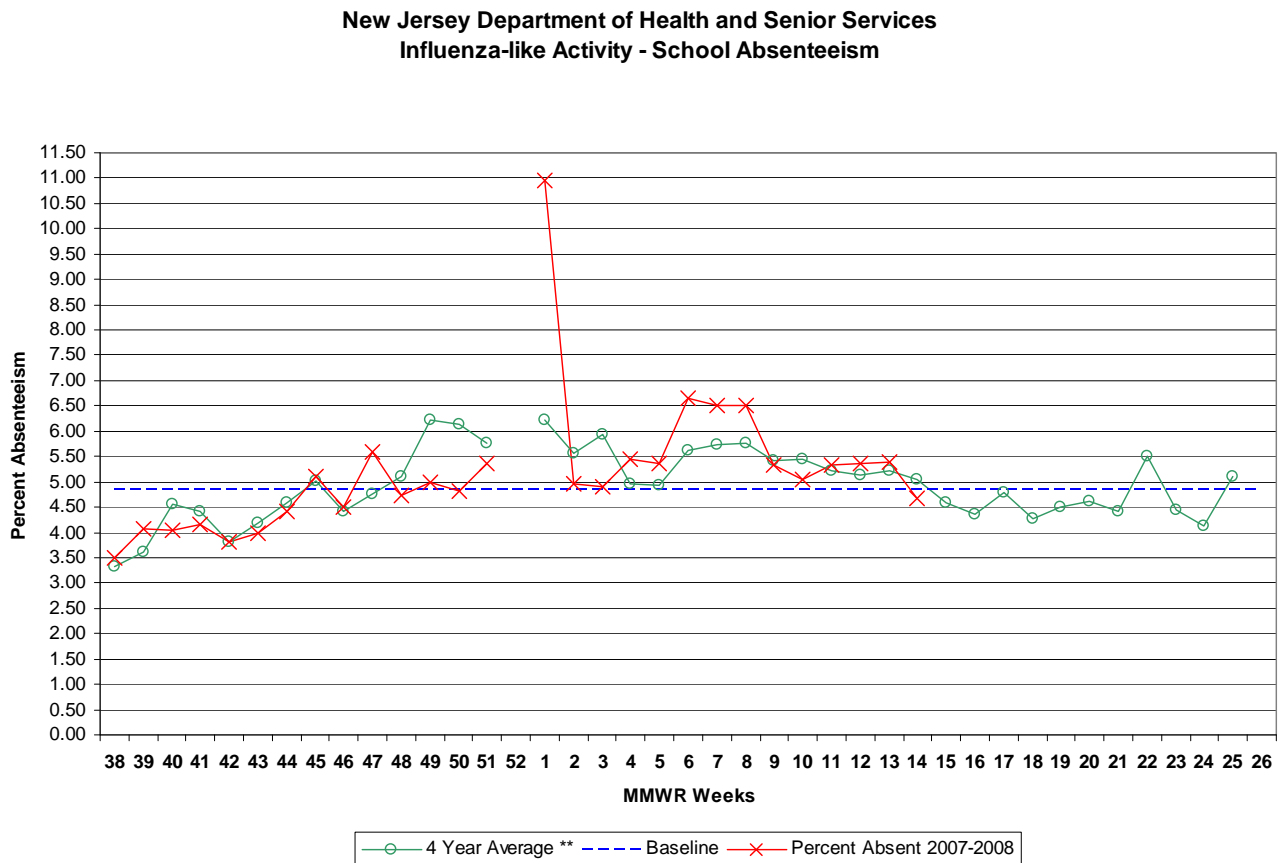
During week 14, 0.97% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (1.05%). The percent ILI for each county ranged from 0.00% to 16.67%. The percent ILI for this same week last year was 0.65% in long-term care facilities. The percent ILI for the northwest (1.01%), northeast (1.91%) and south (1.04%) public health regions were above state baseline (0.86%). Two new reports of respiratory outbreaks in long term care facilities were received in week 14.

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



School Absenteeism

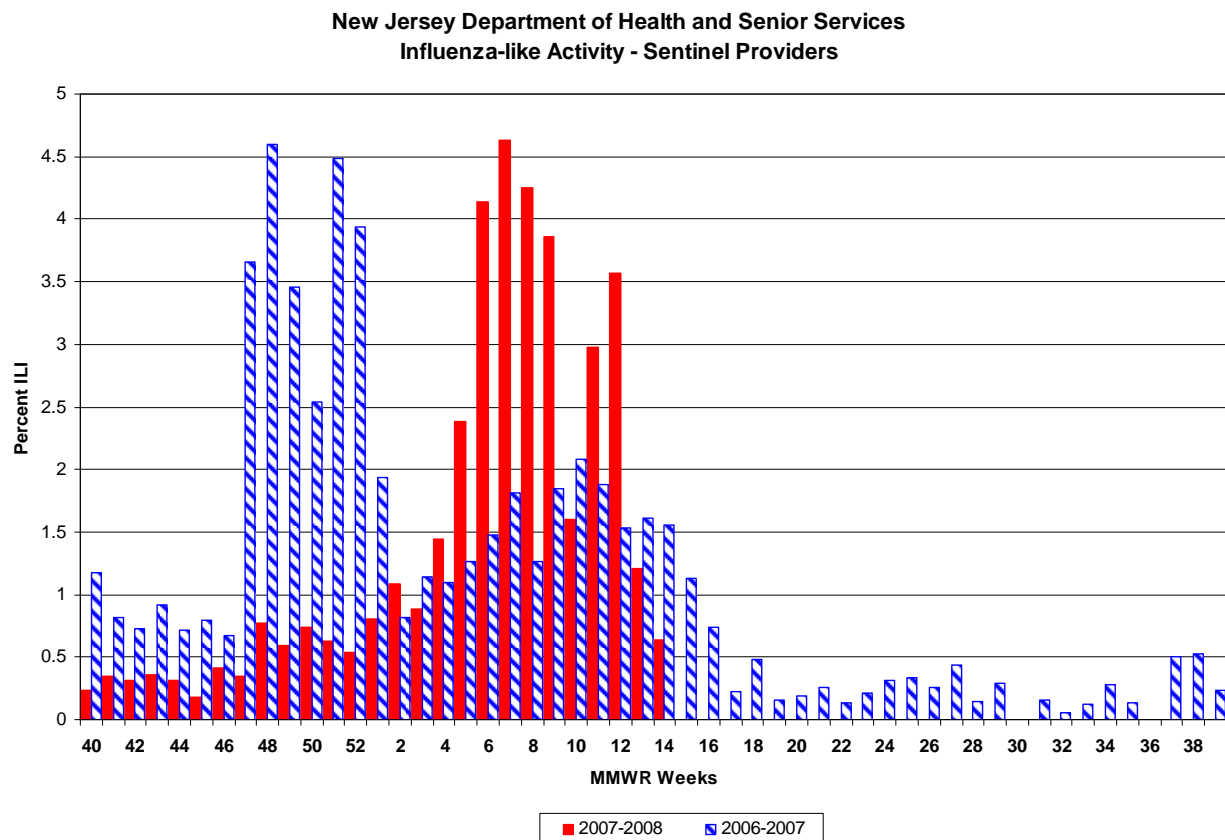
During week 14, schools reported 4.68% absenteeism. This is a decrease over the previous week (5.38%). The percent ILI for each county ranged from 2.69 – 7.40%. The percent absent for this same week last year was 5.64%. The percent ILI for the south (5.43%) public health region was above state baseline (4.85%).



Sentinel Provider Surveillance

During week 14, 0.64% of sentinel provider patient visits were due to ILI. These data reflect reports from five (13%) of the enrolled sentinel providers.

During week 13, 1.21% of sentinel provider patient visits were due to ILI. These data reflect reports from eight (20%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

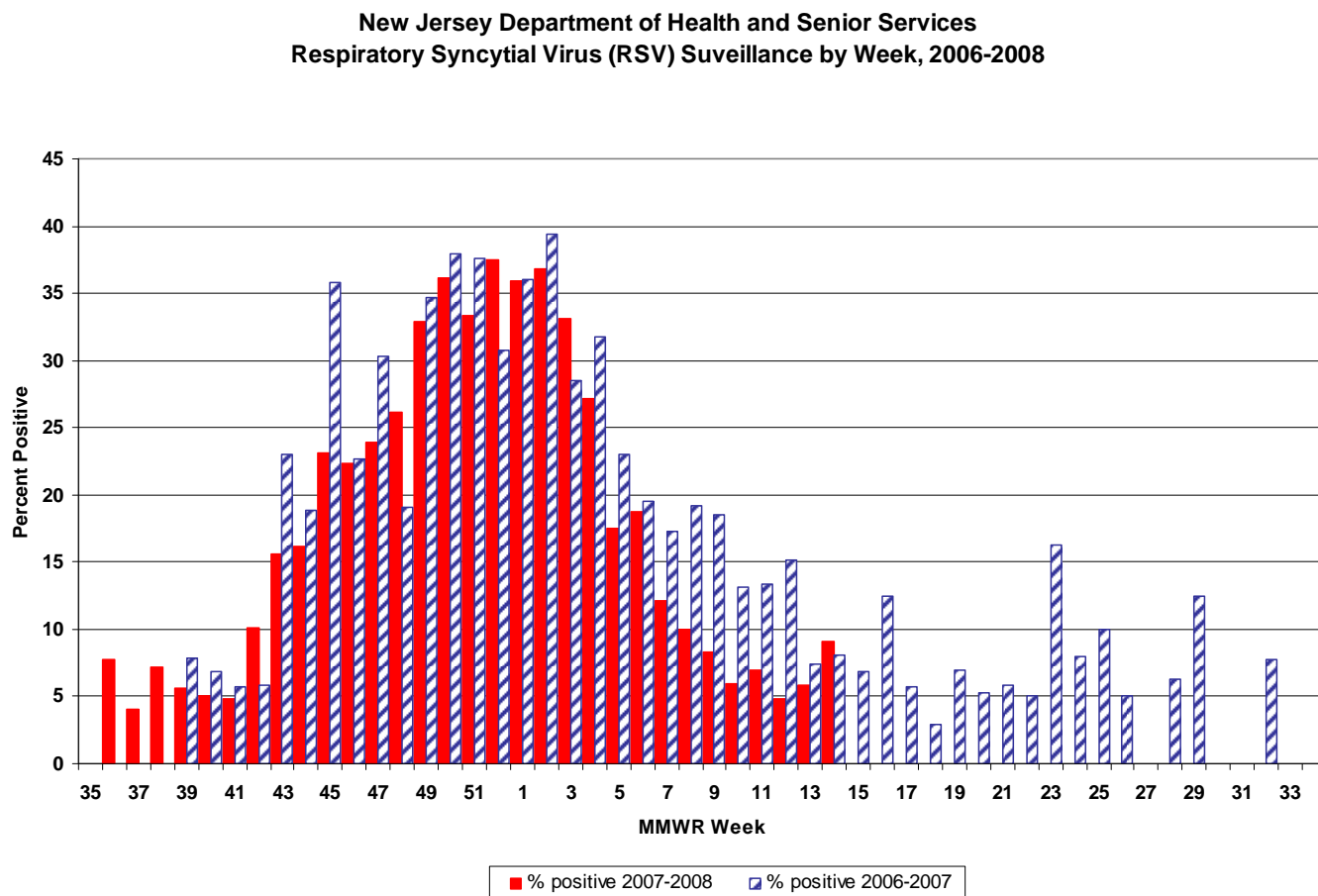
To date, NJDHSS has received 49 reports of pediatric illness. A total of 23 cases have met the case definition. Of these, one death was reported in week 9.

122 City Mortality Report

During week 13, 5.03% of all deaths reported by the vital statistics offices in 6 New Jersey cities (i.e., Camden, Elizabeth, Newark, Paterson, Jersey City, Trenton) were due to pneumonia or influenza. This is an increase as the previous week (6.96%). The percentage of death due to pneumonia or influenza for this same week last year was 6.15%.

RSV Reports

During week 14, 9.06% of all RSV samples tested were positive. This was an increase over the previous week 5.80%. The percent of samples positive for RSV for this same week last year was 8.07%.



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	6	2	0.81	17	15	7.40	4	4	0.94	9	35
BERGEN	3	0	0.00	16	5	3.26	6	0	0.00	1	3
BURLINGTON	6	4	1.05	104	49	4.63	3	3	2.08	4	17
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	0	24
CAPE MAY	5	4	0.69	11	11	4.93	1	1	8.57	0	0
CUMBERLAND	4	2	2.24	18	7	6.92	3	3	6.76	0	8
ESSEX	14	1	16.67	34	4	2.69	11	2	3.04	3	32
GLOUCESTER	2	1	0.00	5	1	5.02	2	2	1.09	1	6
HUDSON	10	3	1.10	88	68	4.65	7	1	2.17	1	9
HUNTERDON	4	4	0.67	8	8	3.19	1	1	2.33	1	4
MERCER	11	6	0.34	26	21	4.21	5	3	2.46	1	24
MIDDLESEX	2	1	0.00	56	19	4.59	5	2	1.99	2	76
MONMOUTH	10	5	1.25	24	13	6.26	5	5	1.25	0	10
MORRIS	11	1	0.00	14	13	2.88	4	2	1.95	2	33
OCEAN	6	2	0.37	27	8	4.51	4	3	3.85	1	4
PASSAIC	8	0	0.00	23	0	0.00	6	0	0.00	3	22
SALEM	4	2	0.00	5	0	0.00	1	1	0.00	0	3
SOMERSET	5	3	0.82	63	15	3.15	2	1	12.86	0	0
SUSSEX	5	5	1.23	24	20	4.88	2	2	0.88	0	6
UNION	4	1	0.60	120	36	4.50	5	5	4.32	1	15
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	4	0.72	21	13	5.69	2	2	11.27	0	0
NW Region	31	10	1.01	82	46	4.50	14	6	4.09	5	61
NE Region	27	4	1.91	138	77	4.56	24	3	2.82	5	44
CW Region	20	13	0.57	97	44	3.74	8	5	3.95	2	28
CE Region	22	9	0.85	227	76	4.82	19	15	2.77	4	105
South Region	34	15	1.04	177	83	5.43	21	14	2.72	14	93
State Total	134	51	0.97	721	326	4.68	86	43	3.03	30	331