

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending March 15, 2008 (MMWR Week 11)

Influenza Activity Level: **WIDESPREAD**

NOTE: Three of three reporting parameters are above state baseline. Additionally, eleven 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

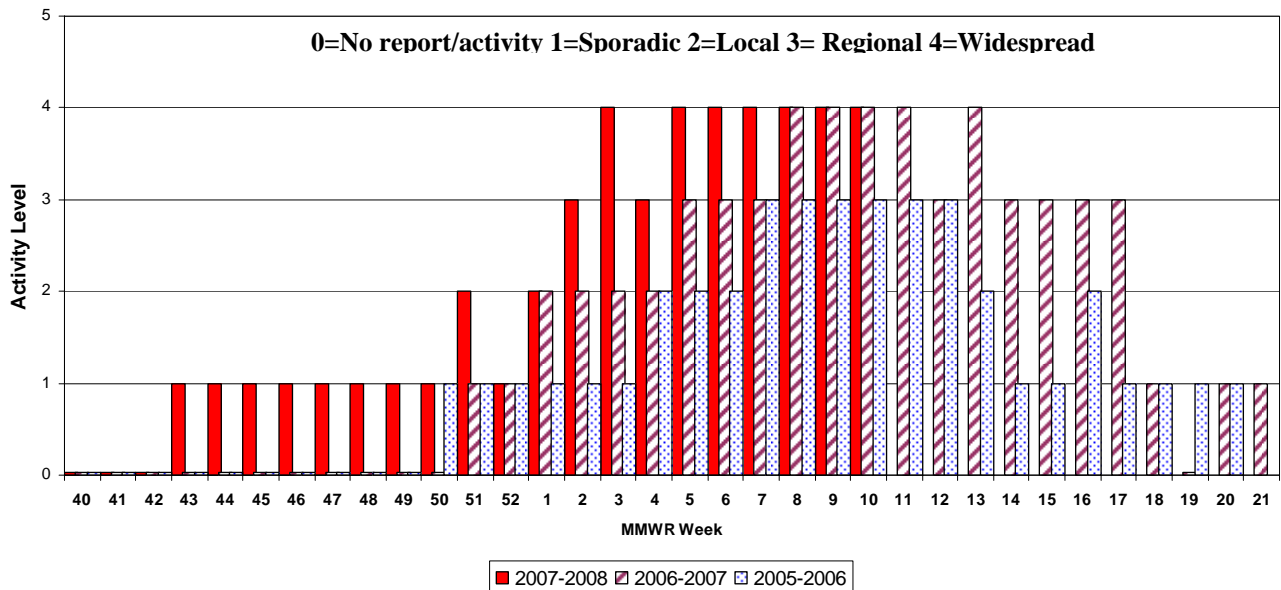
Regional – At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties

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 – NE, NW, CW, CE AND SOUTH

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

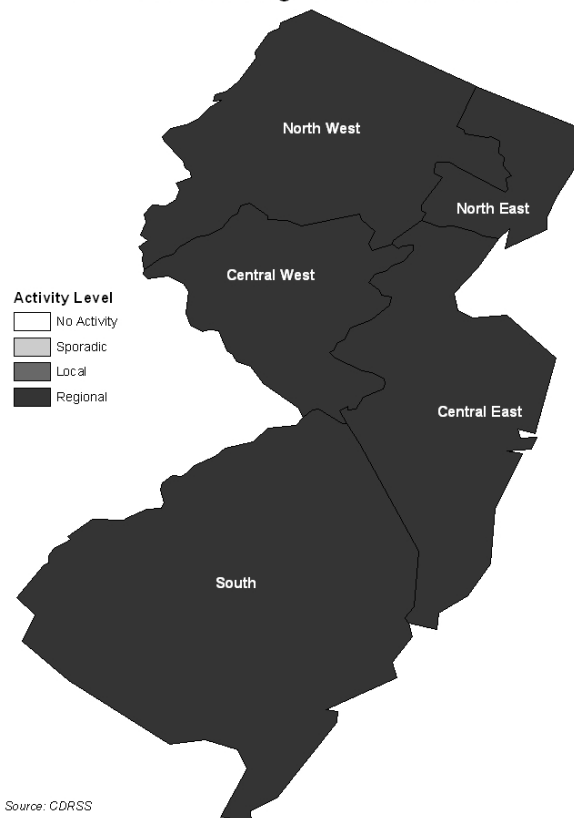
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

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



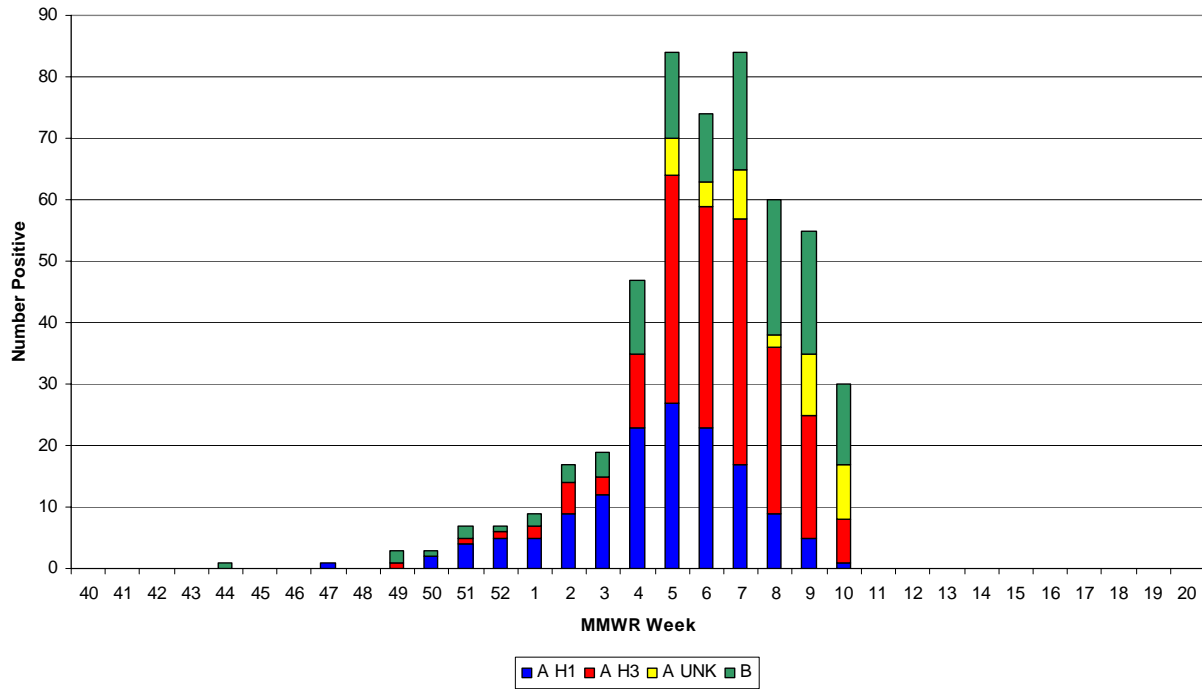
Laboratory Surveillance

As of week 11, 501 samples have been found to be positive by viral culture (143- AH1, 192- AH3 39- A unknown type and 127-B). Rapid and culture results by county are displayed below.

County	Week 40 to Week 11							Weeks 9, 10, 11						
	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	36	8	0	0	0	1	2	25	7	0	0	0	0	0
Bergen County	57	19	0	5	3	38	10	29	8	0	0	1	19	5
Burlington County	174	25	0	0	0	0	0	72	19	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	0	0	0	0	0	0	0	0	0	0
Cumberland County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Essex County	195	42	48	9	17	0	8	90	26	0	0	2	0	2
Gloucester County	0	0	0	18	36	0	2	0	0	0	2	3	0	1
Hudson County	12	5	0	11	11	0	8	10	3	0	0	2	0	1
Hunterdon County	0	0	0	8	10	0	5	0	0	0	0	2	0	1
Mercer County	197	71	0	8	8	0	10	89	40	0	0	3	0	2
Middlesex County	35	4	0	11	8	0	8	19	3	0	0	1	0	2
Monmouth County	142	21	140	9	8	0	1	70	18	89	1	0	0	0
Morris County	0	0	0	19	26	0	15	0	0	0	1	3	0	2
Ocean County	0	0	0	1	1	0	1	0	0	0	0	0	0	0
Passaic County	75	29	0	12	5	0	10	45	17	0	1	0	0	6
Salem County	7	1	0	0	0	0	0	4	1	0	0	0	0	0
Somerset County	7	2	12	11	8	0	1	0	0	7	0	0	0	0
Sussex County	30	9	0	0	1	0	2	11	3	0	0	0	0	0
Union County	19	7	0	12	18	0	18	8	7	0	1	2	0	3
Warren County	56	12	0	0	7	0	2	32	6	0	0	1	0	0
Unknown	0	0	0	9	25	0	24	0	0	0	0	7	0	8
State Total	1024	255	200	143	192	39	127	504	158	96	6	27	19	33

*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

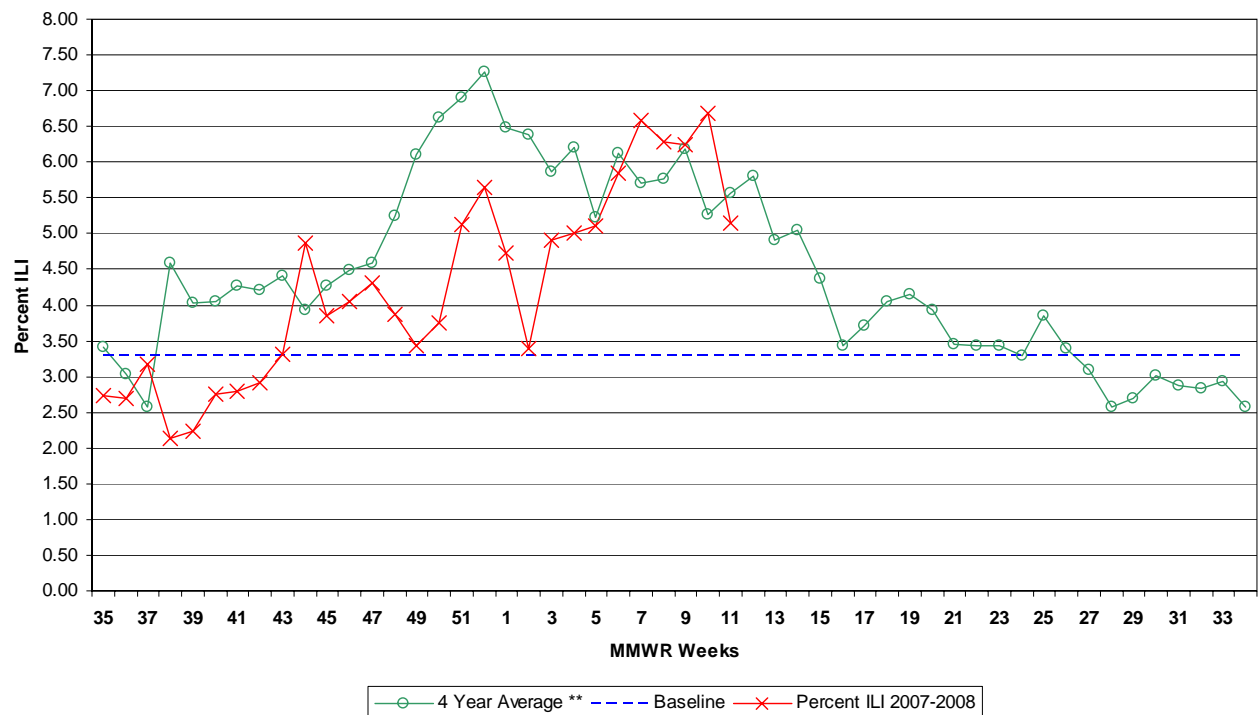


Influenza-like Illness (ILI) Surveillance*

Emergency Departments

During week 11, 5.14% ILI was reported statewide from emergency departments. This is a decrease over the previous week (6.68%). The percent ILI for each county ranged from 0.00 to 17.24%. The percent ILI for this same week last year was 6.03% in emergency departments. The percent ILI for the northwest (4.22%), northeast (4.46%), central west (7.63%), central east (5.26%) and south (4.41%) public health regions were above state baseline (3.30%).

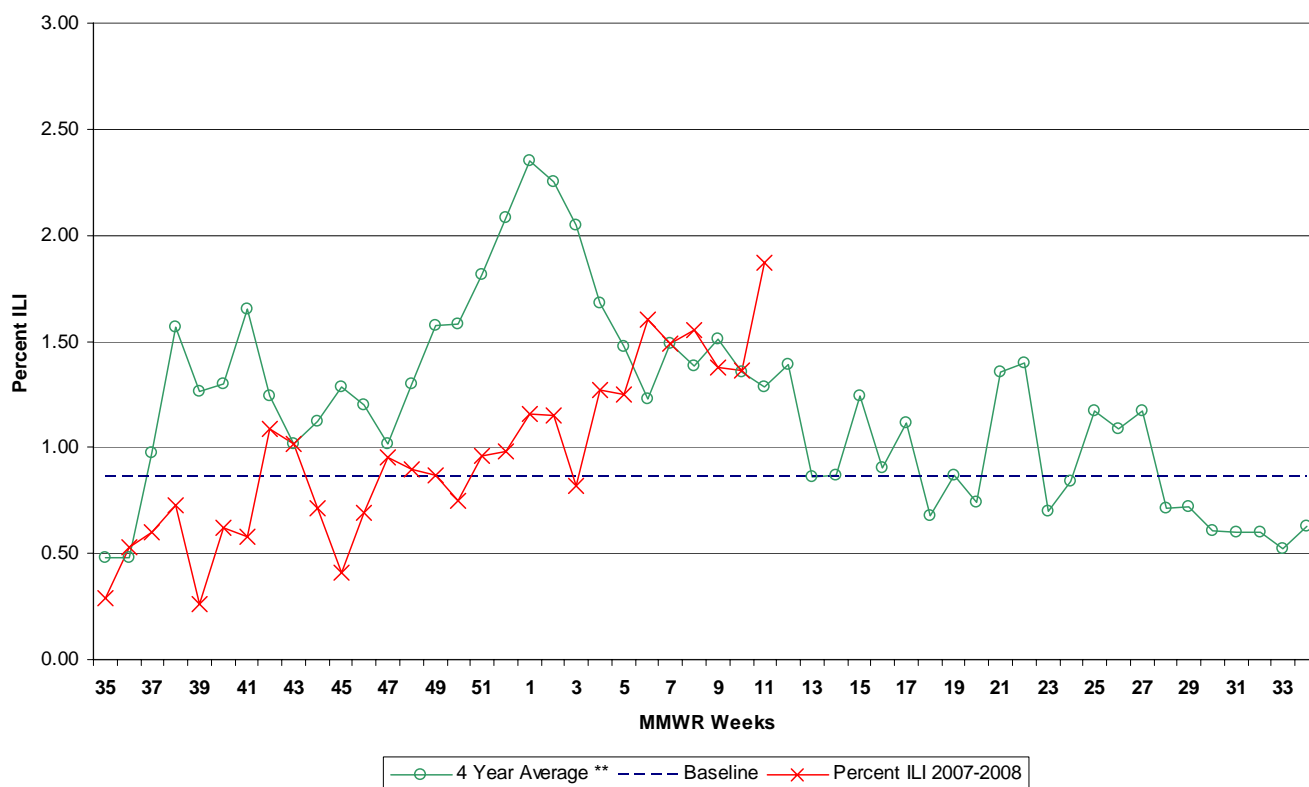
New Jersey Department of Health and Senior Services
Influenza-like Activity - Emergency Departments



Long-term Care Facilities

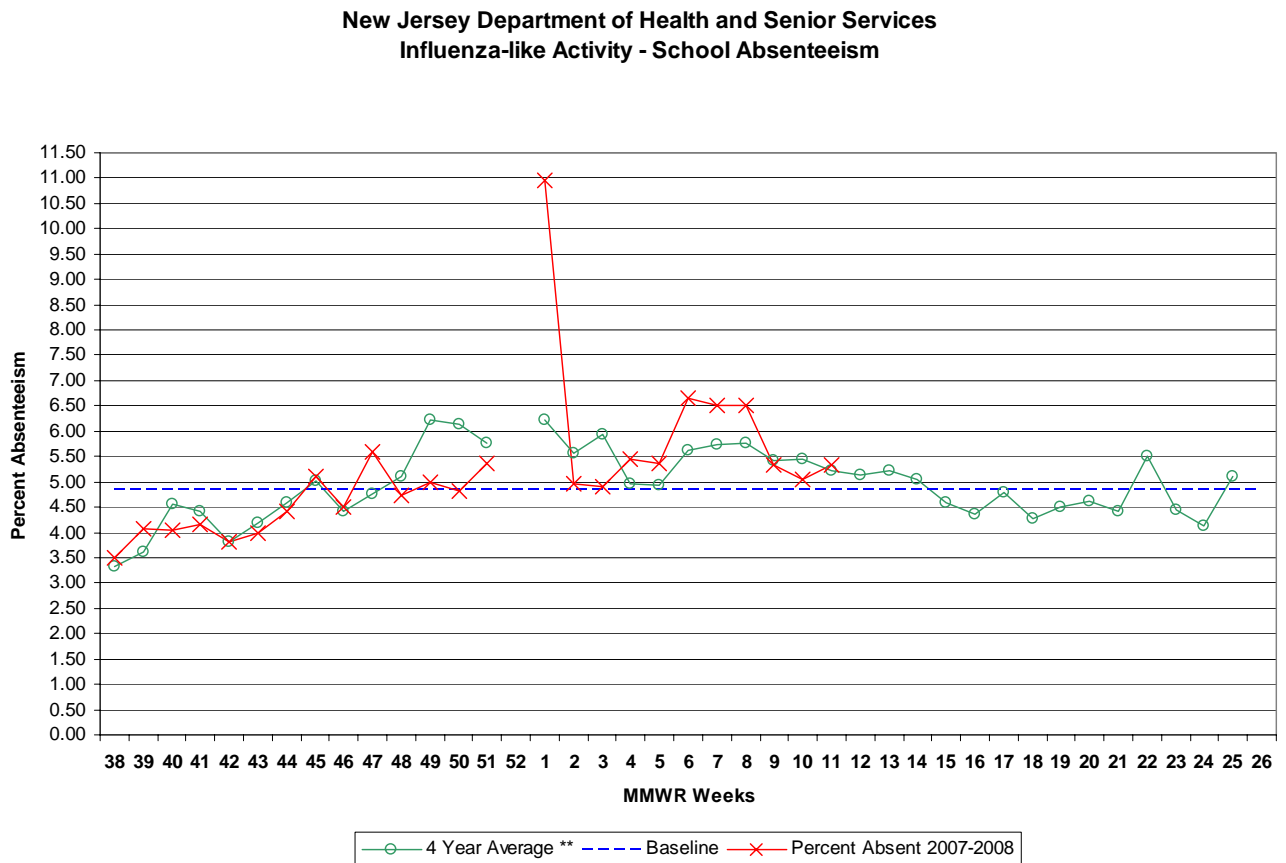
During week 11, 1.87% ILI was reported statewide from long term care facilities. This is an increase over the previous week (1.36%). The percent ILI for each county ranged from 0.00% to 8.50%. The percent ILI for this same week last year was 0.84% in long-term care facilities. The percent ILI for the northwest (1.05%), northeast (4.91%), central east (3.44%) and south (1.88%) public health regions were above state baseline (0.86%). One outbreak in a long term care facility was reported in week 11.

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



School Absenteeism

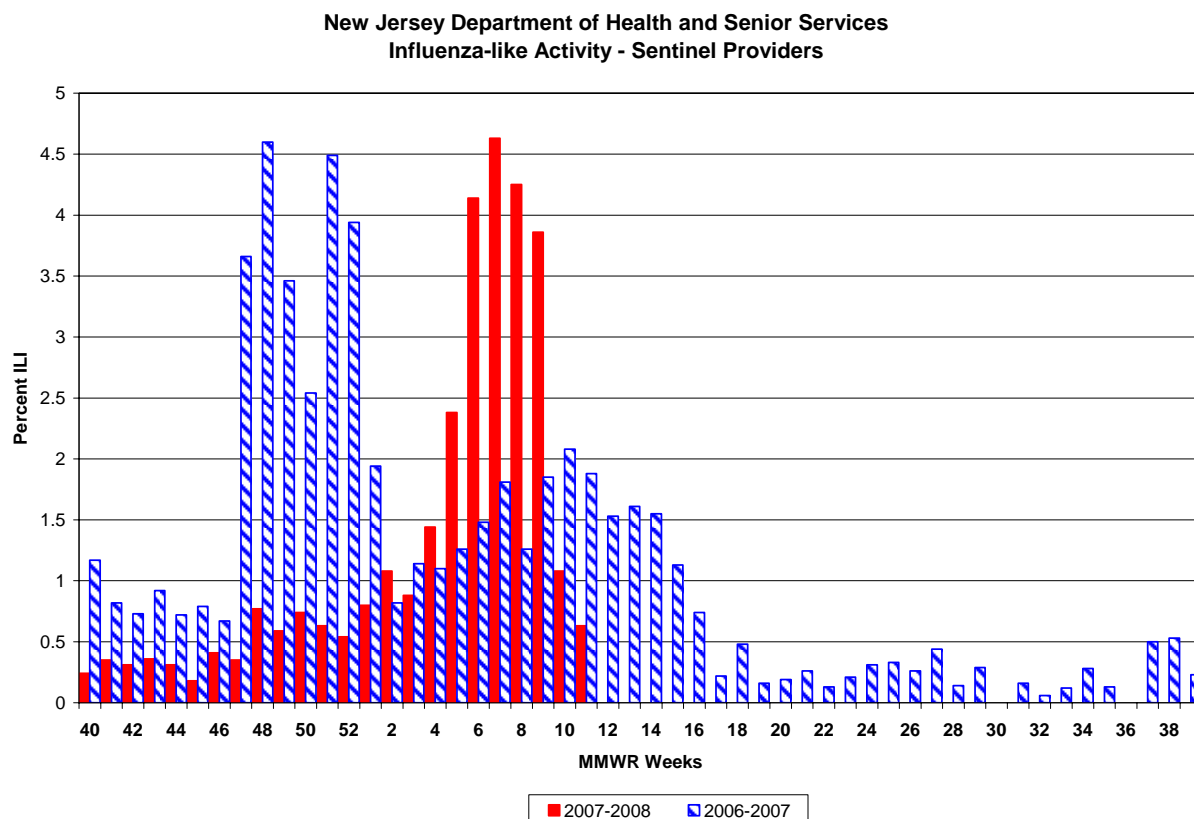
During week 11, schools reported 5.33% absenteeism. This is an increase over the previous week (5.06%). The percent ILI for each county ranged from 2.73 – 8.95%. The percent absent for this same week last year was 5.87%. The percent ILI for the northwest (5.37%), northeast (5.29%), central east (5.69%) and south (5.68%) public health regions were above state baseline (4.85%).



Sentinel Provider Surveillance

During week 11, 0.63% of sentinel provider patient visits were due to ILI. These data reflect reports from three (7%) of the enrolled sentinel providers.

During week 10, 1.08% of sentinel provider patient visits were due to ILI. These data reflect reports from thirteen (33%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

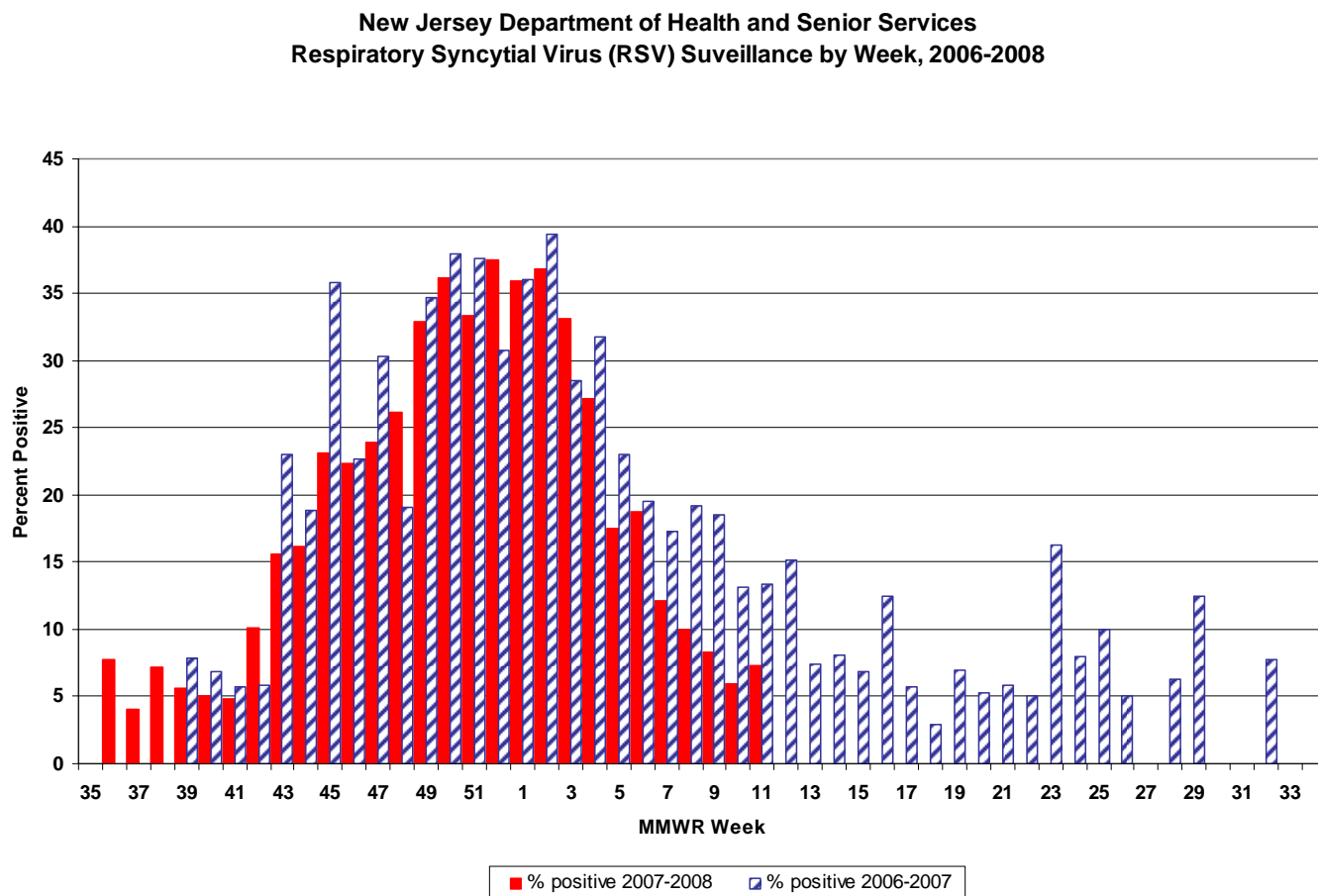
To date, NJDHSS has received 47 reports of pediatric illness. A total of 21 cases have met the case definition. Of these, one death was reported in week 9.

122 City Mortality Report

During week 10, 5.45% 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 a decrease as the previous week (9.93%). The percentage of death due to pneumonia or influenza for this same week last year was 8.43%.

RSV Reports

During week 11, 7.30% of all RSV samples tested were positive. This was an increase over the previous week 5.96%. The percent of samples positive for RSV for this same week last year was 13.33%.



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	4.34	17	15	7.13	4	4	2.99	4	31
BERGEN	3	0	0.00	16	6	4.43	6	0	0.00	0	0
BURLINGTON	6	2	0.00	104	55	4.83	3	3	1.87	1	28
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	4	21
CAPE MAY	5	4	1.82	11	11	6.41	1	1	17.24	1	17
CUMBERLAND	4	1	1.75	18	7	8.57	3	3	8.42	0	6
ESSEX	14	1	8.11	34	5	2.74	11	4	6.93	2	43
GLOUCESTER	2	1	1.67	5	0	0.00	2	1	1.94	2	6
HUDSON	10	2	4.50	88	52	5.43	7	3	1.27	0	5
HUNTERDON	4	4	0.22	8	8	4.01	1	1	4.76	1	8
MERCER	11	7	0.34	26	24	4.87	5	4	8.13	3	30
MIDDLESEX	2	1	0.00	56	23	4.97	5	3	6.60	6	99
MONMOUTH	10	5	5.82	24	15	8.95	5	3	1.19	1	27
MORRIS	11	1	0.00	14	12	2.73	4	1	1.55	2	26
OCEAN	6	2	1.44	27	7	4.87	4	4	5.54	0	4
PASSAIC	8	4	0.49	23	7	6.24	6	0	0.00	3	26
SALEM	4	2	0.00	5	0	0.00	1	1	0.00	0	0
SOMERSET	5	3	0.82	63	23	4.07	2	1	7.50	0	1
SUSSEX	5	4	1.55	24	23	6.23	2	2	2.75	0	5
UNION	4	1	0.60	120	34	4.75	5	5	6.71	0	19
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	3	0.92	21	16	5.25	2	2	8.78	0	9
NW Region	31	12	1.05	82	58	5.37	14	5	4.22	5	66
NE Region	27	3	4.91	138	63	5.29	24	7	4.46	2	48
CW Region	20	14	0.42	97	55	4.43	8	6	7.63	4	39
CE Region	22	9	3.44	227	79	5.69	19	15	5.26	7	149
South Region	33	12	1.88	177	88	5.68	21	13	4.41	12	109
State Total	133	50	1.87	721	343	5.33	86	46	5.14	30	411