

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending April 26, 2008 (MMWR Week 17)

Influenza Activity Level: **LOCAL**

NOTE: No reporting parameters are above state baseline. Additionally, two counties had 2 of 3 parameters above baseline. Only one county had culture confirmed influenza in the last 3 weeks while 11 other counties reported rapid positive results.

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

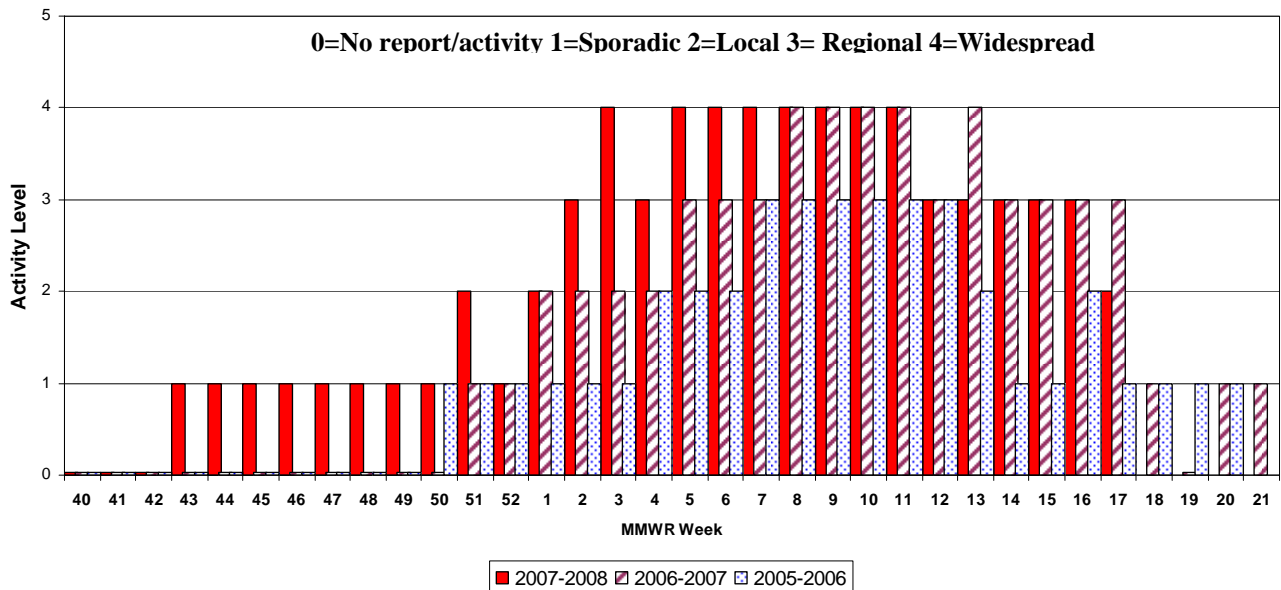
Regional – At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties

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

LOCAL – SOUTH

SPORADIC – NW, NE, CE AND CW

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

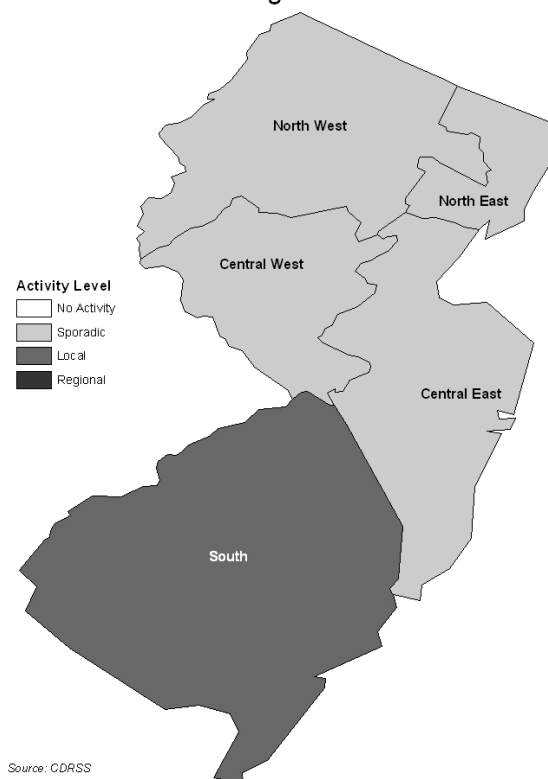
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

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



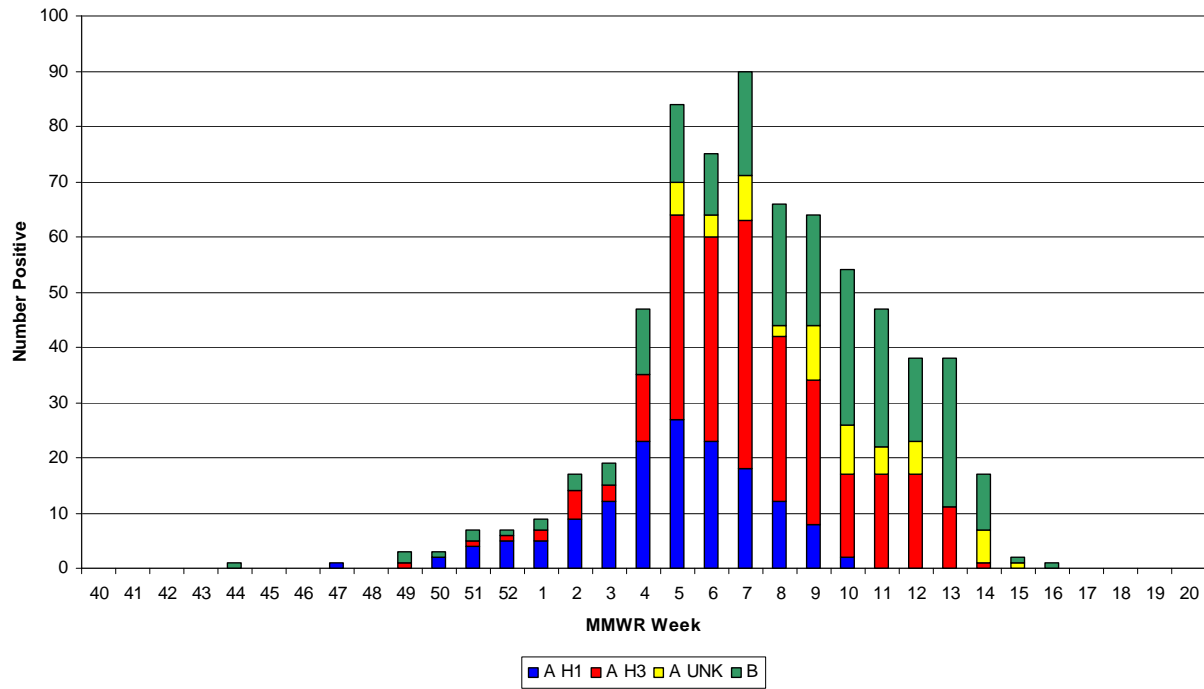
Laboratory Surveillance

As of week 17, 693 samples have been found to be positive by viral culture (151- AH1, 261- AH3, 58- A unknown type and 223-B). Rapid and culture results by county are displayed below.

County	Week 40 to Week 17							Weeks 15,16, 17						
	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	41	10	0	0	1	1	2	1	1	0	0	0	0	0
Bergen County	81	30	0	5	4	57	36	2	4	0	0	0	2	3
Burlington County	194	39	0	0	1	0	2	2	3	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	0	0	0
Cumberland County	0	0	0	0	2	0	1	0	0	0	0	0	0	0
Essex County	229	68	50	9	23	0	18	5	10	2	0	0	0	0
Gloucester County	0	0	0	21	38	0	2	0	0	0	0	0	0	0
Hudson County	25	16	0	12	18	0	18	1	3	0	0	0	0	0
Hunterdon County	0	0	0	8	10	0	12	0	0	0	0	0	0	0
Mercer County	216	99	0	8	9	0	11	4	5	0	0	0	0	0
Middlesex County	44	15	0	11	11	0	13	1	2	0	0	0	0	0
Monmouth County	174	35	161	9	8	0	3	12	7	3	0	0	0	0
Morris County	0	0	0	19	42	0	24	0	0	0	0	0	0	0
Ocean County	0	0	0	1	2	0	1	0	0	0	0	0	0	0
Passaic County	95	46	0	12	6	0	11	5	6	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	17	12	16	0	7	0	0	3	0	0	0	0
Sussex County	48	14	0	0	3	0	3	0	1	0	0	0	0	0
Union County	22	12	0	12	21	0	25	0	2	0	0	0	0	0
Warren County	66	36	0	0	11	0	7	3	6	0	0	1	0	1
Unknown	0	0	0	12	32	0	28	0	0	0	0	0	0	2
State Total	1239	412	226	151	261	57	221	70	72	20	0	1	7	12

*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.

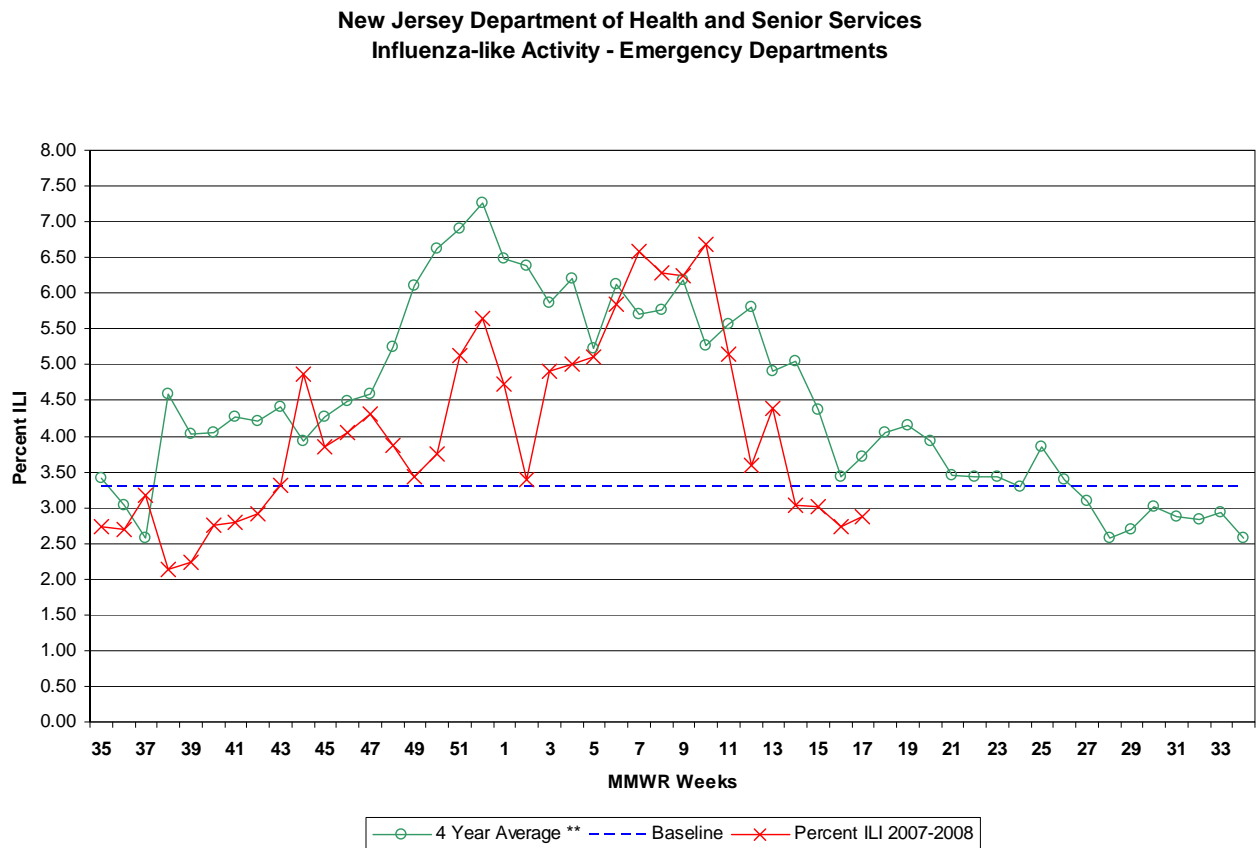
**New Jersey Department of Health and Senior Services
Influenza Laboratory Report
Viral Culture Positive Specimens by MMWR Week**



Influenza-like Illness (ILI) Surveillance*

Emergency Departments

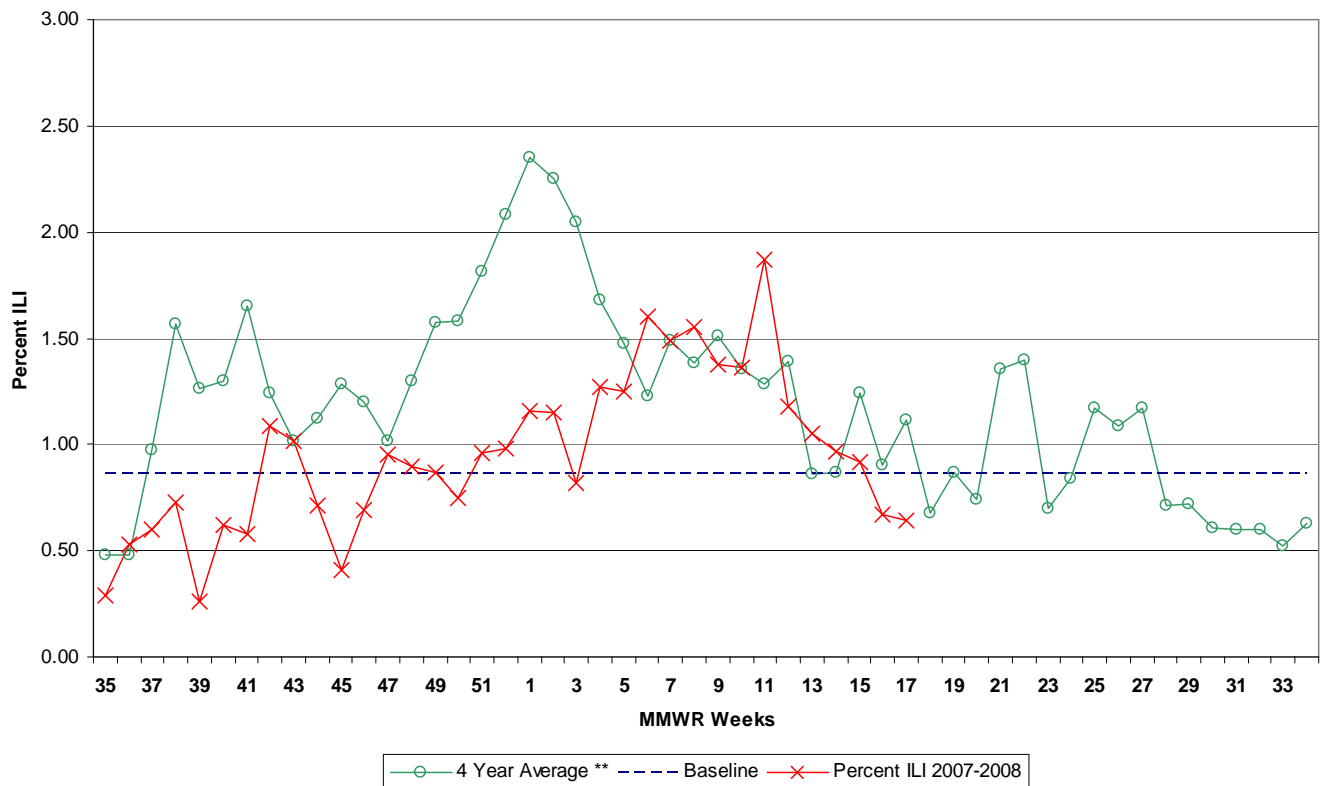
During week 17, 2.87% ILI was reported statewide from emergency departments. This is an increase over the previous week (2.74%). The percent ILI for each county ranged from 0.00 to 6.82%. The percent ILI for this same week last year was 3.19% in emergency departments. The percent ILI for the northeast (3.39%) public health region was above state baseline (3.30%).



Long-term Care Facilities

During week 17, 0.64% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (0.67%). The percent ILI for each county ranged from 0.00% to 1.68%. The percent ILI for this same week last year was 1.18% in long-term care facilities. The percent ILI for the northeast (1.68%) public health region was above state baseline (0.86%). One new reports of respiratory outbreaks in long term care facilities were received in week 17.

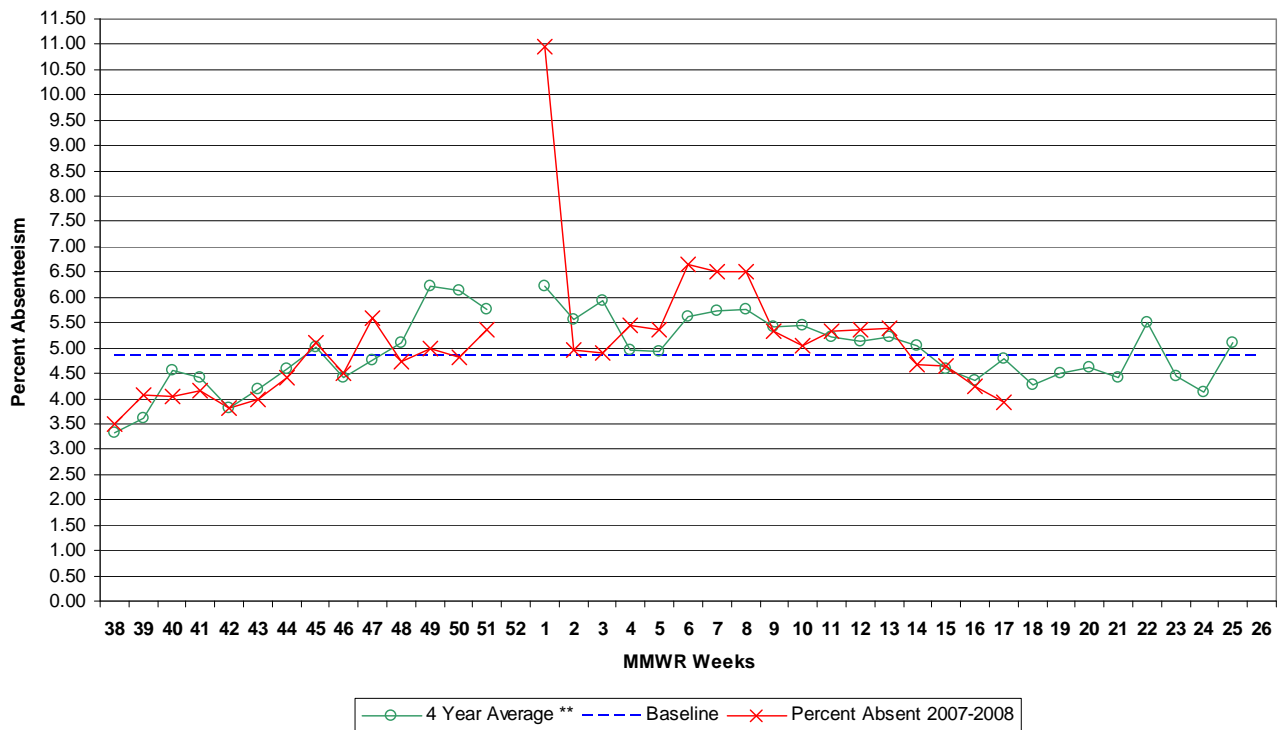
**New Jersey Department of Health and Senior Services
Influenza-like Activity - Long Term Care Facilities**



School Absenteeism

During week 17, schools reported 3.93% absenteeism. This is a decrease over the previous week (4.25%). The percent ILI for each county ranged from 1.18 – 6.43%. The percent absent for this same week last year was 4.42%. No public health regions were above state baseline (4.85%).

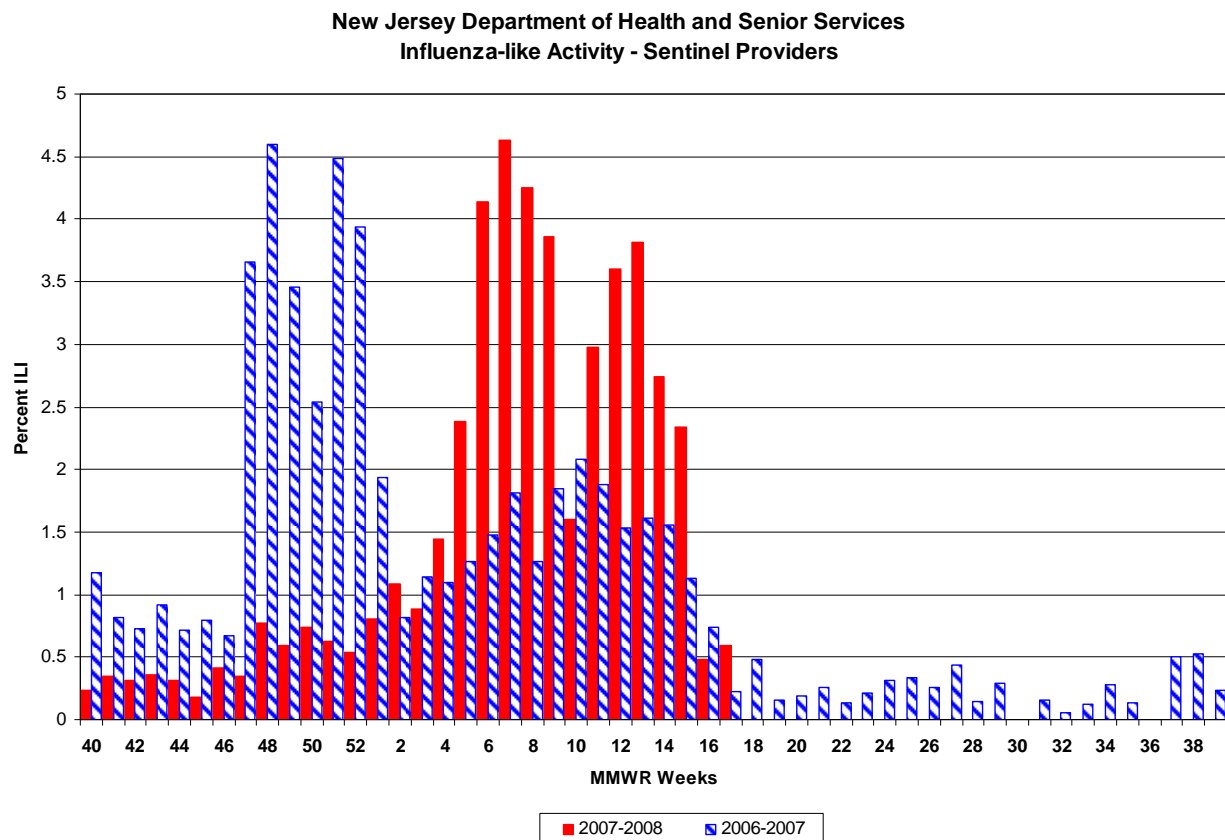
New Jersey Department of Health and Senior Services
Influenza-like Activity - School Absenteeism



Sentinel Provider Surveillance

During week 17, 0.59% of sentinel provider patient visits were due to ILI. These data reflect reports from two (5%) of the enrolled sentinel providers.

During week 16, 0.48% of sentinel provider patient visits were due to ILI. These data reflect reports from seven (18%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

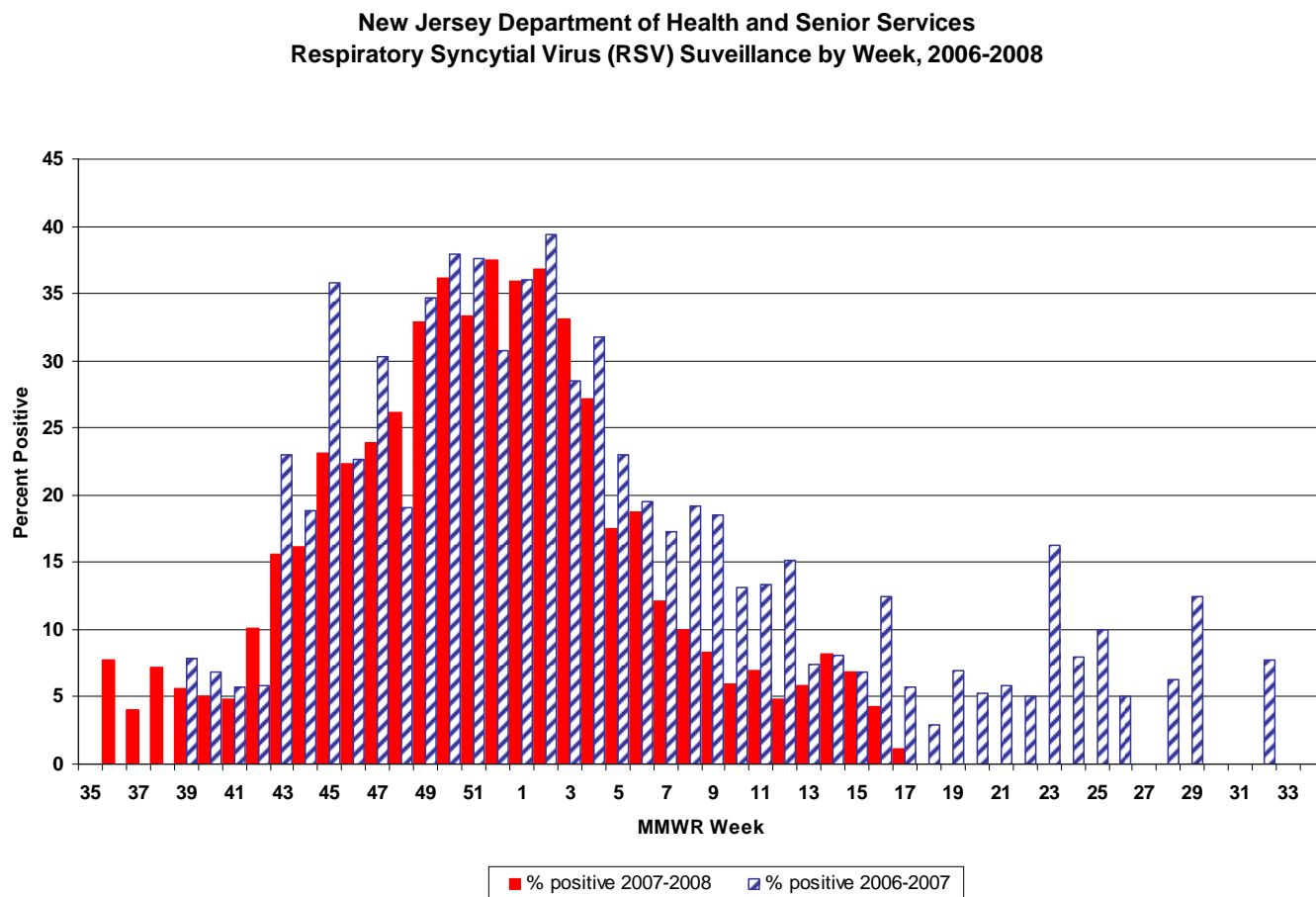
To date, NJDHSS has received 50 reports of pediatric illness. A total of 24 cases have met the case definition. Of these, one death was reported in week 9.

122 City Mortality Report

During week 16, 7.19% 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 over the previous week (5.03%). The percentage of death due to pneumonia or influenza for this same week last year was 5.10%.

RSV Reports

During week 17, 1.15% of all RSV samples tested were positive. This was a decrease over the previous week 4.24%. The percent of samples positive for RSV for this same week last year was 5.73%.



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	1.34	17	14	5.51	4	4	1.34	1	21
BERGEN	3	0	0.00	16	2	5.52	6	0	0.00	0	22
BURLINGTON	6	3	1.00	104	44	4.03	3	2	1.24	0	0
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	0	0
CAPE MAY	5	3	0.29	11	9	4.43	1	1	6.82	0	0
CUMBERLAND	4	4	0.76	18	8	6.43	3	3	6.25	0	2
ESSEX	14	0	0.00	34	0	0.00	11	4	5.18	0	0
GLOUCESTER	2	1	0.00	5	1	1.18	2	2	1.51	0	0
HUDSON	10	3	1.68	88	13	3.76	7	3	1.03	0	3
HUNTERDON	4	4	0.00	8	8	2.53	1	1	0.00	0	3
MERCER	11	4	0.00	26	15	3.79	5	2	1.97	0	1
MIDDLESEX	2	1	0.00	56	13	4.76	5	3	4.05	0	13
MONMOUTH	14	4	0.74	24	5	4.89	5	2	0.60	0	11
MORRIS	11	0	0.00	14	8	1.49	4	2	1.27	0	0
OCEAN	6	2	0.74	27	5	4.78	4	2	4.62	0	0
PASSAIC	8	3	0.96	23	3	1.58	6	1	2.41	0	0
SALEM	4	1	0.00	5	0	0.00	1	1	0.00	0	0
SOMERSET	5	2	0.00	63	14	2.64	2	1	5.97	0	2
SUSSEX	5	4	0.26	24	0	0.00	2	2	4.04	0	1
UNION	4	1	0.30	120	16	3.80	5	5	3.78	0	8
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	3	0.97	21	7	4.06	2	2	5.44	0	0
NW Region	31	10	0.60	82	18	2.08	14	7	2.71	0	1
NE Region	27	3	1.68	138	15	3.88	24	7	3.39	0	25
CW Region	20	10	0.00	97	37	3.15	8	4	2.29	0	6
CE Region	26	8	0.59	227	39	4.42	19	12	3.27	0	32
South Region	34	14	0.75	177	76	4.53	21	13	2.46	1	23
State Total	138	45	0.64	721	185	3.93	86	43	2.87	1	87