

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending May 8, 2010 (MMWR Week 18)

Influenza Activity Level: **NO ACTIVITY**

NOTE: No parameters are at or above state baseline. No county has 2 of 3 parameters above state baseline and no county has culture/PCR positive samples in the last 3 weeks. No county has both positive culture/PCR and 2 of 3 parameters above baseline.

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

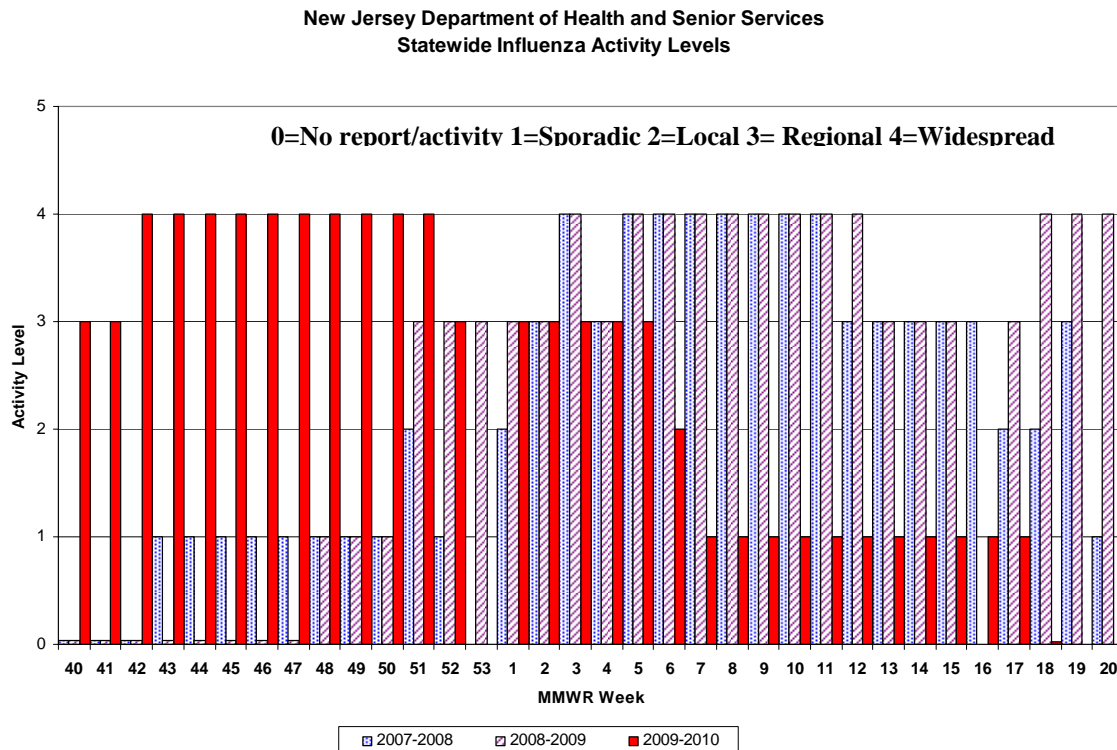
Local – At least 2 of 3 parameters above state baseline in a single county **AND** confirmed laboratory cases from that same county within the previous 3 weeks (other counties may be above baseline without lab confirmed cases) **OR** confirmed outbreaks in 2 or more institutions in a single county

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

Off season baseline is calculated by taking the average of statewide percentages of ILI for a 4 year (2006, 2007, 2008, 2009) period during months when influenza is less likely to be circulating (May-August).



Regional Data

Region	Counties in Region	Activity Level
NW Region	Morris, Passaic, Sussex, Warren	NO ACTIVITY
NE Region	Bergen, Essex, Hudson	NO ACTIVITY
CW Region	Hunterdon, Mercer, Somerset	NO ACTIVITY
CE Region	Middlesex, Monmouth, Ocean, Union	NO ACTIVITY
South Region	Atlantic, Burlington, Camden, Cape May, Salem, Cumberland, Gloucester	NO ACTIVITY

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

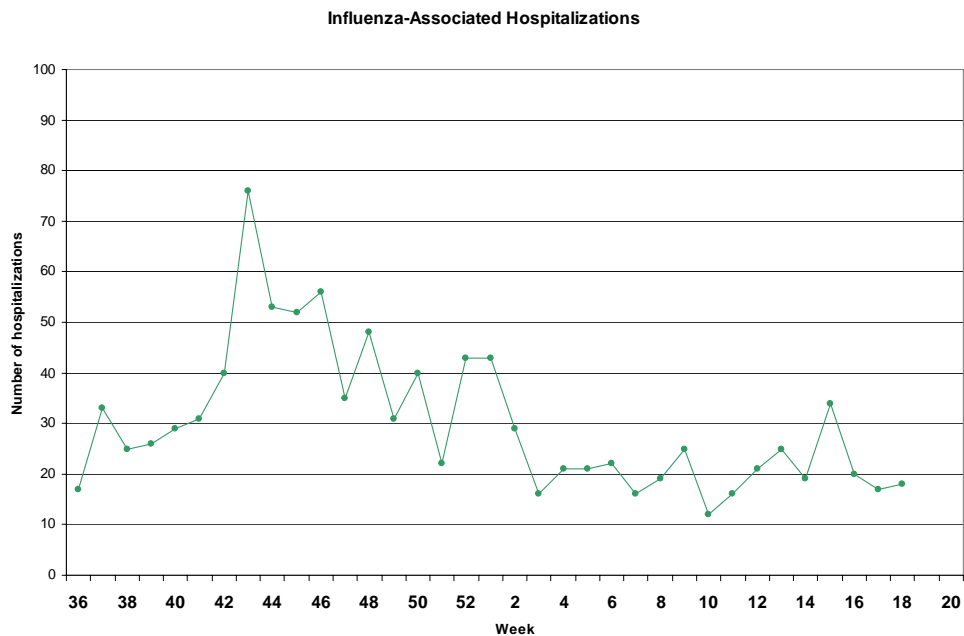
Regional – At least 2 of 3 parameters above state baseline in at least half of the counties of public health region **AND** laboratory confirmed cases from these same counties in the past 3 weeks **OR** confirmed outbreaks institutions in at least half of counties of public health region counties

Widespread – Not used for public health region data

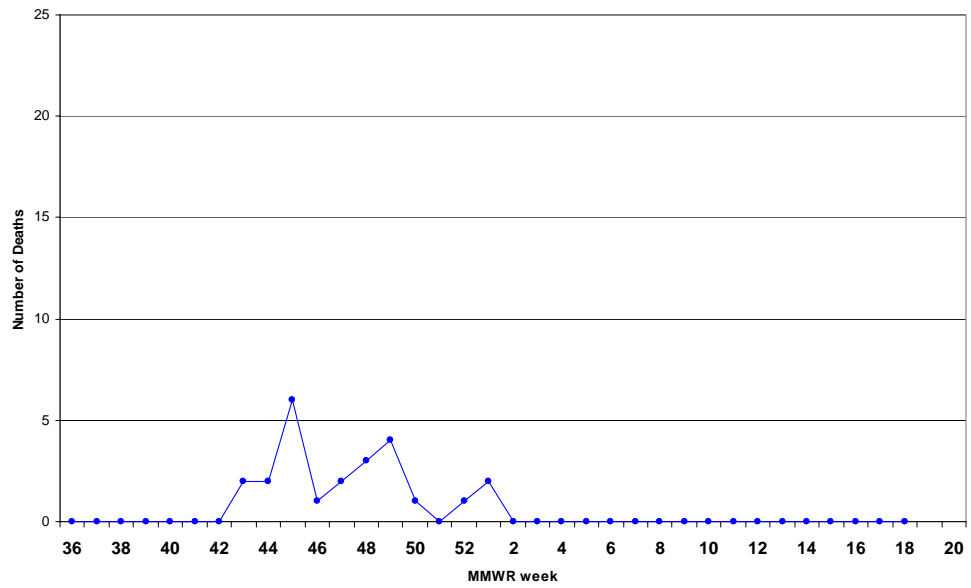
Influenza Hospitalizations/Deaths

Influenza-associated hospitalizations are reported weekly from a subset of hospital facilities. Facilities report patients hospitalized with either laboratory-confirmed (rapid, PCR, culture) influenza or patients admitted with influenza-like illness. Data from influenza-associated deaths are extracted from CDRSS. Only deaths associated with laboratory-confirmed influenza are included in these statistics.

NJ Influenza-Associated Hospitalizations and Deaths by Current MMWR week and Cumulative Total (Week 36 to present)		
	Hospitalizations	Deaths
Week 18	18	0
Cumulative	1051	24

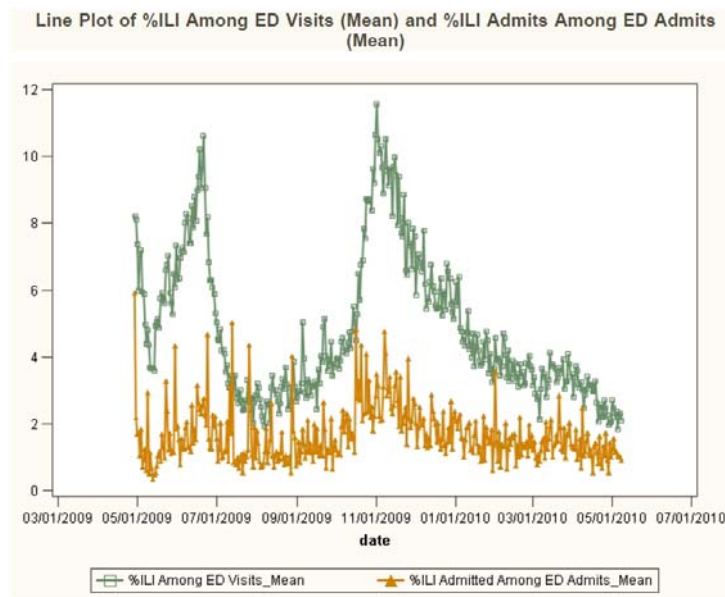


Influenza-Associated Deaths



Syndromic Surveillance – Enhanced Emergency Department (ED) Surveillance for Influenza-like Illness (ILI)

NOTE: *The number of ED visits, hospital admissions, ED visits due to ILI, and hospital admissions due to ILI are reported each day by acute care facilities statewide. These data are captured via daily surveys sent using the Hippocrates system.*



Summary of Emergency Department (ED) Visits and Admits Surveillance

Daily surveillance for ED visits and admissions from 73 acute care facilities resulted in 6 ED visit blips (Bergen, Hunterdon, Monmouth, Morris, Ocean, and Union) and 8 admission blips (one in each Camden, Monmouth, Ocean, Salem-Cumberland, Sussex, and Union; two in Burlington) from 05/02/10 to 05/08/10. Three visit blip responses and five admission blip responses were received and none was ILI-related.

Summary of Enhanced Emergency Department (ED) Surveillance for Influenza-like Illness (ILI)

During 05/02/10 - 05/08/10, 73 acute care facilities reported an aggregate total of 1,553 ED visits due to ILI (2.5% of total ED visits) and an aggregate total of 122 admissions due to ILI (7.9% of total ILI ED visits). These reports resulted in 10 ED ILI visit blips (one in each Burlington, Camden, Hudson, Mercer, Monmouth, and Union; two in each Atlantic and Bergen). There was no change in ILI activity for the week ending 05/08/10 when compared to the previous week ending 05/01/10 ($p=0.4$). The mean daily percentage of ED visits for ILI during the week ending 05/08/10 was 2.2%, compared to 2.3% for the previous week. The mean percentage of ED visits due to ILI ranged from 1.8% to 2.5% during 05/02/10 - 05/08/10. The mean percentage of ED visits due to ILI (averaged over the previous four influenza seasons) for this same week (MMWR Week 18) was approximately 4%.

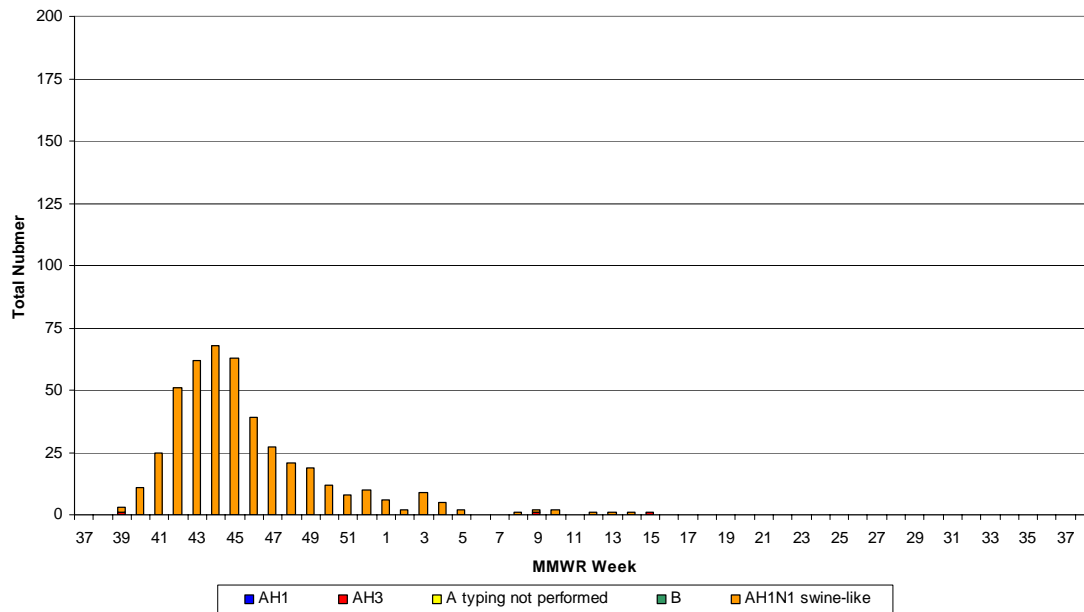
Laboratory Surveillance

As of week 18, 449 samples were found to be positive by viral culture or PCR for influenza AH1, AH3, novel AH1N1 or influenza B. Please see graph on next page for weekly distribution. Numbers of specimens tested and total number positive by rapid influenza testing are displayed by county at the end of this report.

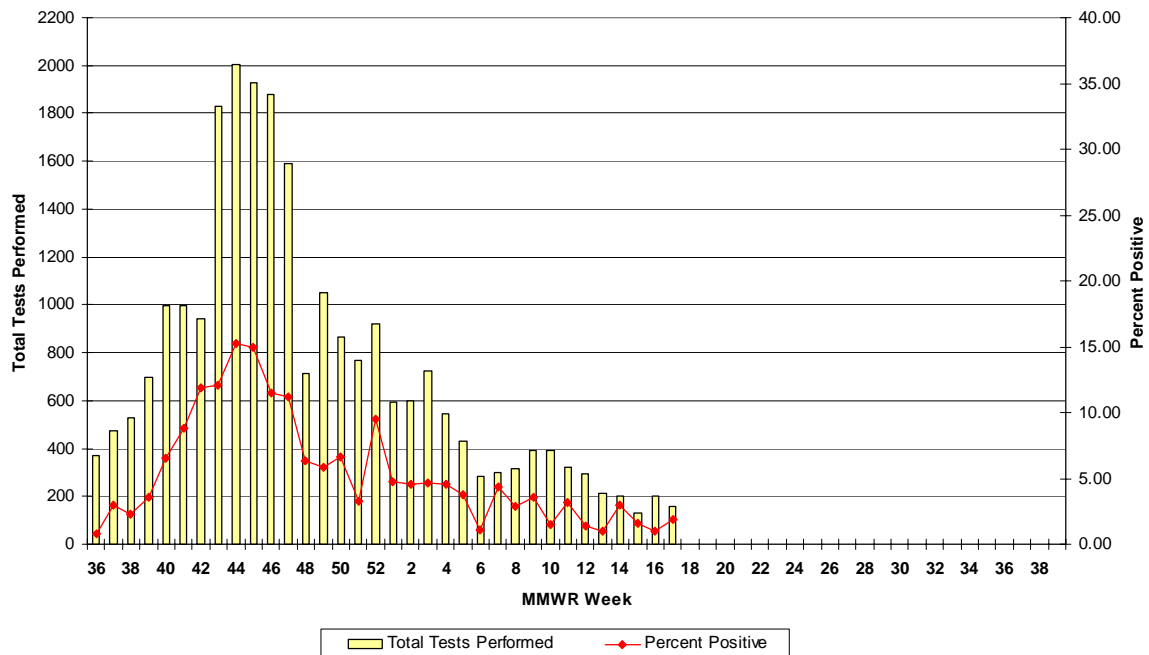
	MMWR Week 40 to present week					MMWR Week 16, 17, 18				
	A H1	A H3	A (subtyping not done)	B	2009 Influenza A H1N1	A H1	A H3	A (subtyping not done)	B	2009 Influenza A H1N1
Atlantic County	0	0	0	0	25	0	0	0	0	0
Bergen County	0	1	0	0	35	0	0	0	0	0
Burlington County	0	0	0	0	8	0	0	0	0	0
Camden County	0	0	0	0	46	0	0	0	0	0
Cape May County	0	0	0	0	19	0	0	0	0	0
Cumberland County	0	0	0	0	16	0	0	0	0	0
Essex County	0	0	0	0	9	0	0	0	0	0
Gloucester County	0	0	0	0	4	0	0	0	0	0
Hudson County	0	0	0	0	10	0	0	0	0	0
Hunterdon County	0	0	0	0	27	0	0	0	0	0
Mercer County	0	0	0	0	28	0	0	0	0	0
Middlesex County	0	0	0	0	52	0	0	0	0	0
Monmouth County	0	0	0	0	23	0	0	0	0	0
Morris County	0	1	0	0	47	0	0	0	0	0
Ocean County	0	0	0	0	4	0	0	0	0	0
Passaic County	0	0	0	0	13	0	0	0	0	0
Salem County	0	0	0	0	0	0	0	0	0	0
Somerset County	0	0	0	0	12	0	0	0	0	0
Sussex County	0	0	0	0	4	0	0	0	0	0
Union County	0	0	0	0	53	0	0	0	0	0
Warren County	0	0	0	0	10	0	0	0	0	0
Unknown	0	0	0	0	2	0	0	0	0	0
State Total	0	2	0	0	447	0	0	0	0	0

*Rapid influenza test data is acquired from facilities reporting rapid influenza tests via NREVSS or CDRSS ILI module. Culture/PCR results are obtained from the LIMS system at PHEL or hospital viral culture laboratories via NREVSS. County of residence as provided by the laboratory is used to assign culture results to a county. If county of residence is not available, the county of the facility reporting is utilized.

**Influenza Laboratory Report
Positive Specimens by PCR and Culture by Week
2009-2010 Influenza Season**



**Influenza Rapid Antigen Tests
Total and Percent Positive
2009-2010 Influenza Season**

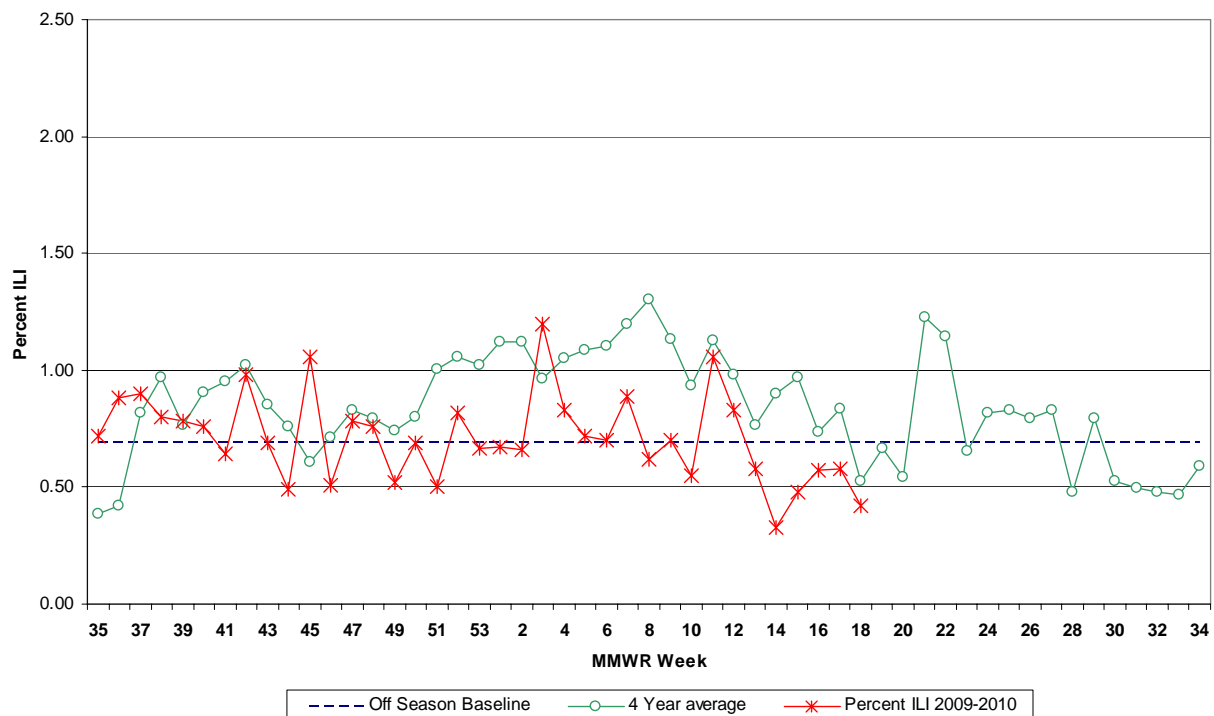


Influenza-like Illness (ILI) Surveillance*

Long-term Care Facilities

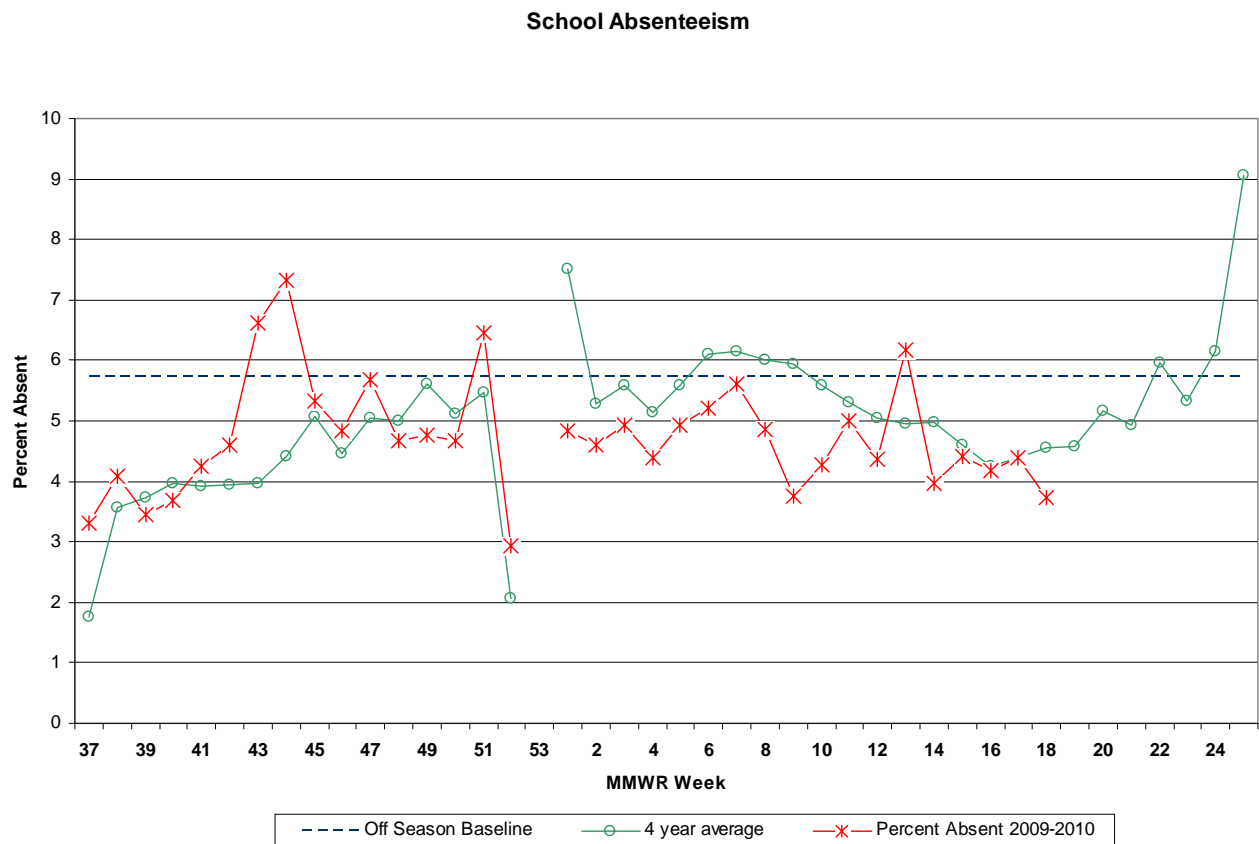
During week 18, 0.42% ILI was reported statewide from long term care facilities. This is a decrease compared to the previous week (0.58%). The percent ILI for each county ranged from 0.00% to 1.02%. The percent ILI for this same week last year was 0.59% in long-term care facilities. The percent ILI for the northwest (0.98%) and the northeast (0.86%) public health regions were above the state baseline (0.69%). One report of a respiratory outbreak in an institutional setting was received in week 18. It was not attributed to influenza.

Influenza-like Activity - Long Term Care Facilities



School Absenteeism

During week 18, schools reported 3.73% absenteeism. This is a decrease compared to the previous week (4.39%). The percent absenteeism for each county ranged from 2.11 to 6.26%. The percent absent for this same week last year was 4.61%. The percent absenteeism for no public health region was found to be at or above the state baseline (5.73%).

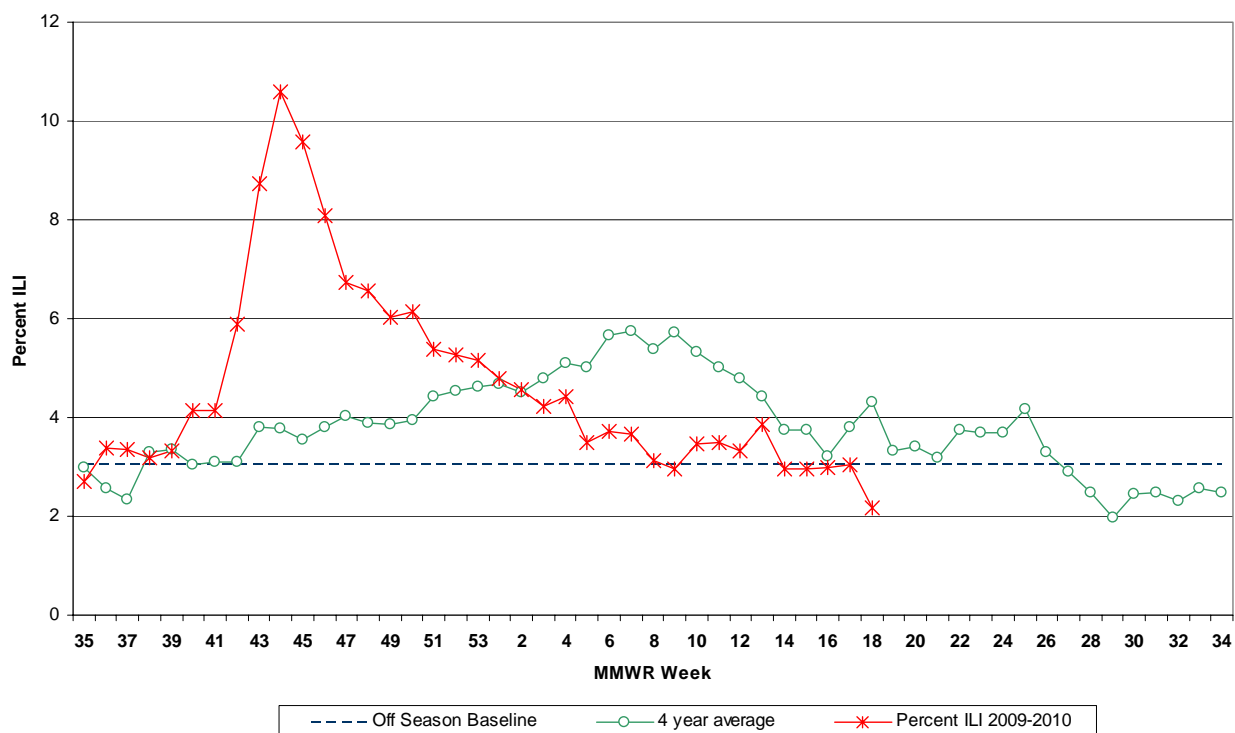


Emergency Departments

NOTE: Data presented below is from daily ED data extracted from Hippocrates survey responses for Tuesday of each week. Because this data only represents one day of data, it is likely less accurate for detecting true trends than the syndromic data presented above.

During week 18, 2.17% of ILI was reported statewide from emergency departments. This is a decrease compared to the previous week (3.04%). The percent ILI for each county ranged from 0.00 to 5.42%. The percent ILI for this same week last year was 6.51% in emergency departments. The percent ILI for the central east (3.93%) public health region was found to be above the state baseline (3.04%).

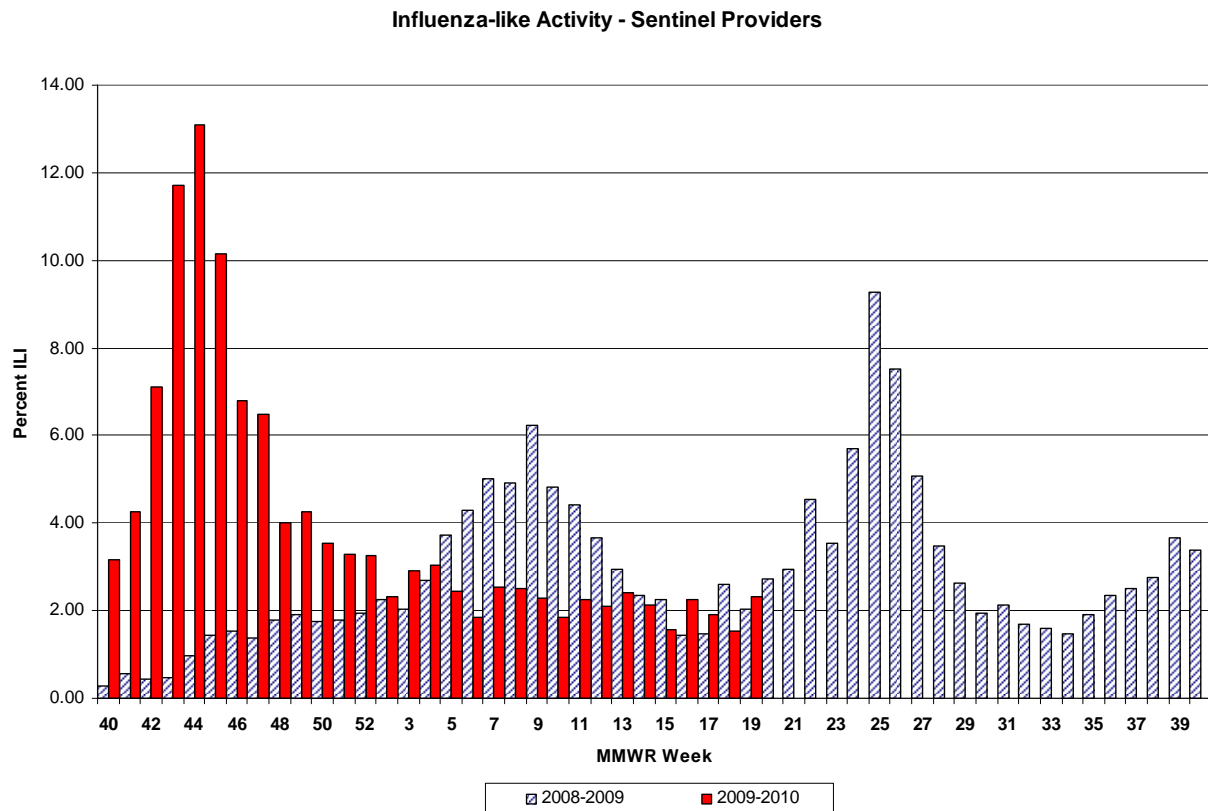
Influenza-like Activity - Emergency Departments



Sentinel Provider Surveillance

During week 18, 2.31% of sentinel provider patient visits were due to ILI. These data reflect reports from nine (13%) of the 70 enrolled sentinel providers.

During week 17, 1.53% of sentinel provider patient visits were due to ILI. These data reflect reports from twenty (28%) of the 70 enrolled sentinel providers.



Pediatric Influenza Surveillance

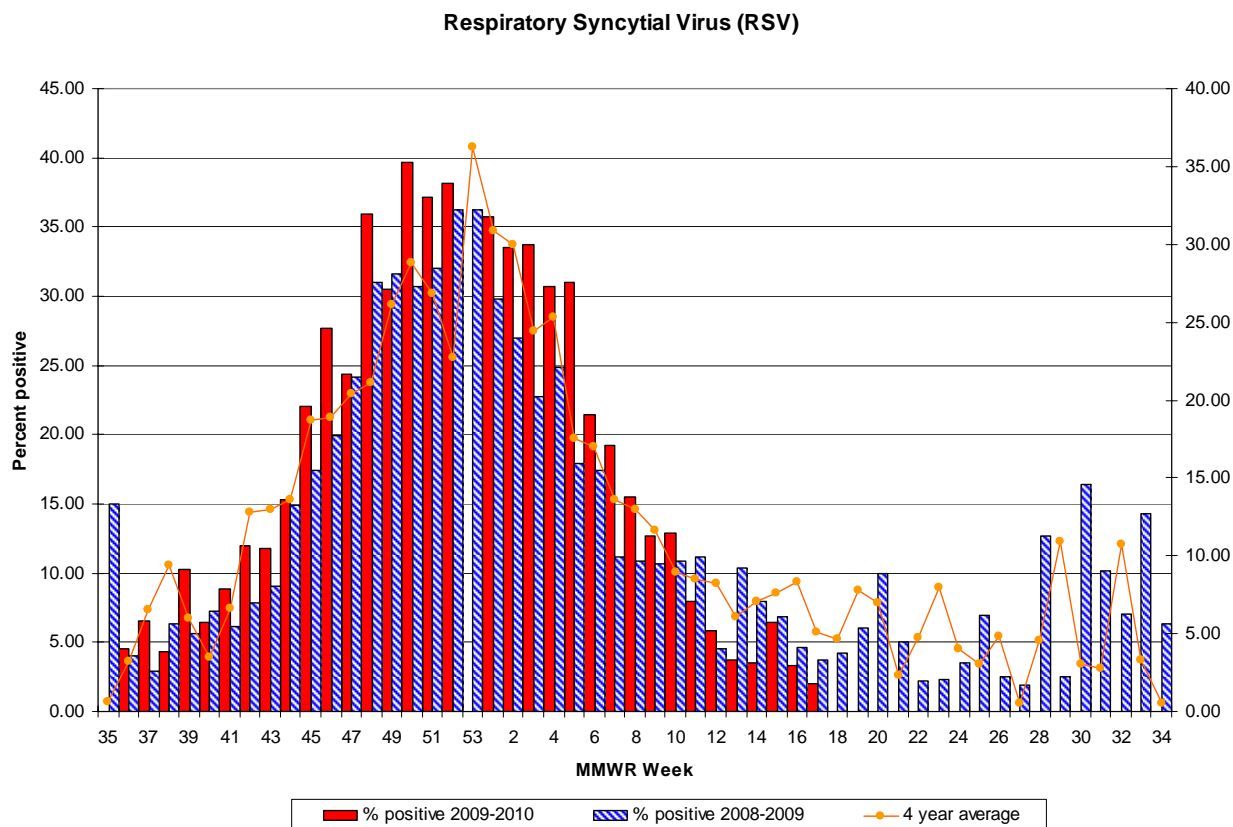
To date, NJDHSS has received 103 reports of pediatric influenza meeting the case definition.

122 City Mortality Report

During week 17, 1.69% 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 compared to the previous week (4.46%). The percentage of death due to pneumonia or influenza for this same week last year was 4.84%.

RSV Reports

During week 17, 2.04% of all RSV samples tested were positive. This is a decrease from the previous week 3.36%. The percent of samples positive for RSV for this same week last year was 3.75%.



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/>

* Off Season baseline is calculated by taking the average of statewide percentages of ILI for a 4 year (2006, 2007, 2008, 2009) period during months when influenza is less likely to be circulating (May-August). MMWR week 53 occurred in the 2008-2009 influenza season only, for seasons occurring 2005-2008 an average of the two weeks adjoining week 53 were used.

**Four year average is an average of the 2005-2006, 2006-2007, 2007-2008, 2008-2009 influenza seasons.



	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
May, 4, 2010 12:00 AM MMRW WEEK 18									
ATLANTIC	4	2	0.00	19	12	6.26	4	3	1.08
BERGEN	3	0	0.00	29	11	4.02	6	2	1.06
BURLINGTON	6	2	0.00	115	55	3.23	3	2	1.26
CAMDEN	7	0	0.00	17	0	0.00	7	7	1.19
CAPE MAY	6	3	0.00	11	9	4.01	1	1	0.00
CUMBERLAND	6	0	0.00	19	0	0.00	3	3	2.13
ESSEX	18	1	0.58	44	5	2.25	11	6	1.28
GLOUCESTER	5	3	0.85	4	4	2.65	2	2	2.03
HUDSON	13	2	1.02	120	68	4.59	6	2	0.38
HUNTERDON	4	4	0.22	49	48	2.11	1	1	0.00
MERCER	11	2	0.00	26	13	3.76	5	2	1.48
MIDDLESEX	2	0	0.00	135	57	3.67	5	5	3.98
MONMOUTH	14	1	0.00	24	16	5.02	5	5	3.18
MORRIS	2	0	0.00	13	0	0.00	4	0	0.00
OCEAN	6	1	0.00	81	23	4.54	4	4	5.42
PASSAIC	9	0	0.00	28	0	0.00	6	1	0.00
SALEM	4	0	0.00	19	0	0.00	1	1	1.45
SOMERSET	6	2	0.00	83	22	2.69	2	1	1.12
SUSSEX	5	5	0.97	22	22	4.28	2	1	2.06
UNION	4	1	0.00	154	22	3.71	5	1	1.49
WARREN	8	2	1.00	36	20	3.89	2	2	0.00
NW Region	24	7	0.98	99	42	4.14	14	4	0.57
NE Region	34	3	0.86	193	84	4.45	23	10	1.07
CW Region	21	8	0.12	158	83	2.64	8	4	1.13
CE Region	26	3	0.00	394	118	3.99	19	15	3.93
South Region	38	10	0.18	204	80	3.83	21	19	1.38
State Total	143	31	0.42	1048	407	3.78	85	52	2.17

	RSV Tests		Flu Tests		
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
May, 4, 2010 12:00 AM MMRW WEEK 18					
ATLANTIC	0	6	0	4	
BERGEN	0	0	0	0	
BURLINGTON	1	12	0	0	
CAMDEN	0	8	0	0	
CAPE MAY	0	0	0	2	
CUMBERLAND	0	0	0	0	
ESSEX	0	10	2	45	
GLOUCESTER	0	11	0	0	
HUDSON	0	11	0	0	
HUNTERDON	0	5	0	6	
MERCER	0	7	0	0	
MIDDLESEX	0	13	0	15	
MONMOUTH	1	47	1	60	
MORRIS	0	0	0	7	
OCEAN	0	0	0	0	
PASSAIC	1	5	0	13	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	0	0	5	
UNION	0	12	0	2	
WARREN	0	0	0	0	
NW Region	1	5	0	25	
NE Region	0	21	2	45	
CW Region	0	12	0	6	
CE Region	1	72	1	77	
South Region	1	37	0	6	
State Total	3	147	3	159	