

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending March 21, 2009 (MMWR Week 11)

Influenza Activity Level: **WIDESPREAD**

One of three reporting parameters were above state baseline. Five counties have 2 of 3 parameters above state baseline and eighteen counties have had culture positive samples in the last 3 weeks. Five counties had both positive cultures 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

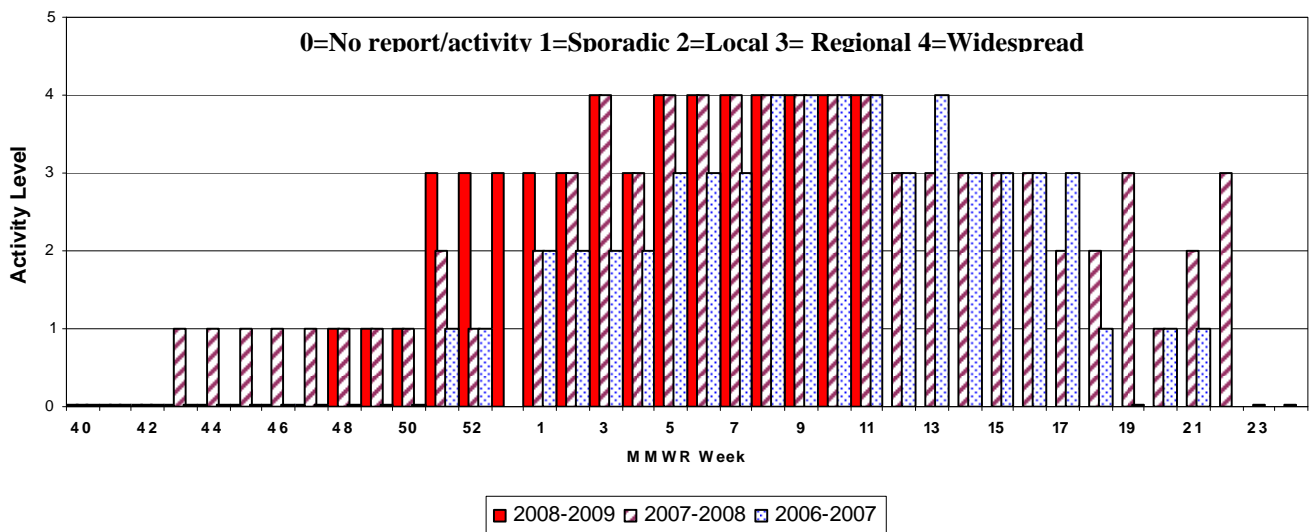
Regional - At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in the past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties

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 3 year (2006, 2007, 2008) period during months when influenza is less likely to be circulating (May-August).

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



Regional Data

Region	Counties in Region	Activity Level
NW Region	Morris, Passaic, Sussex, Warren	REGIONAL
NE Region	Bergen, Essex, Hudson	REGIONAL
CW Region	Hunterdon, Mercer, Somerset	REGIONAL
CE Region	Middlesex, Monmouth, Ocean, Union	REGIONAL
South Region	Atlantic, Burlington, Camden, Cape May, Salem, Cumberland, Gloucester	REGIONAL

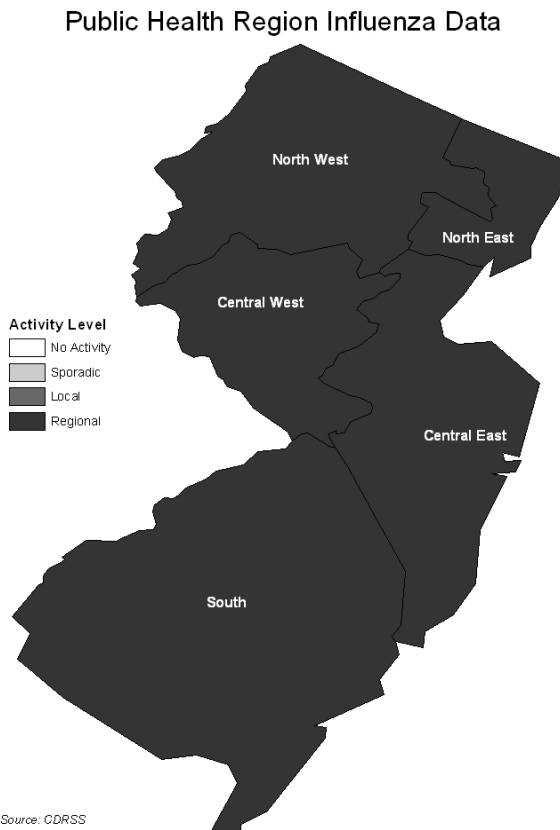
No Activity- At least 2 of 3 parameters at or below state baseline **AND** no lab confirmed cases in the public health region

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



Laboratory Surveillance

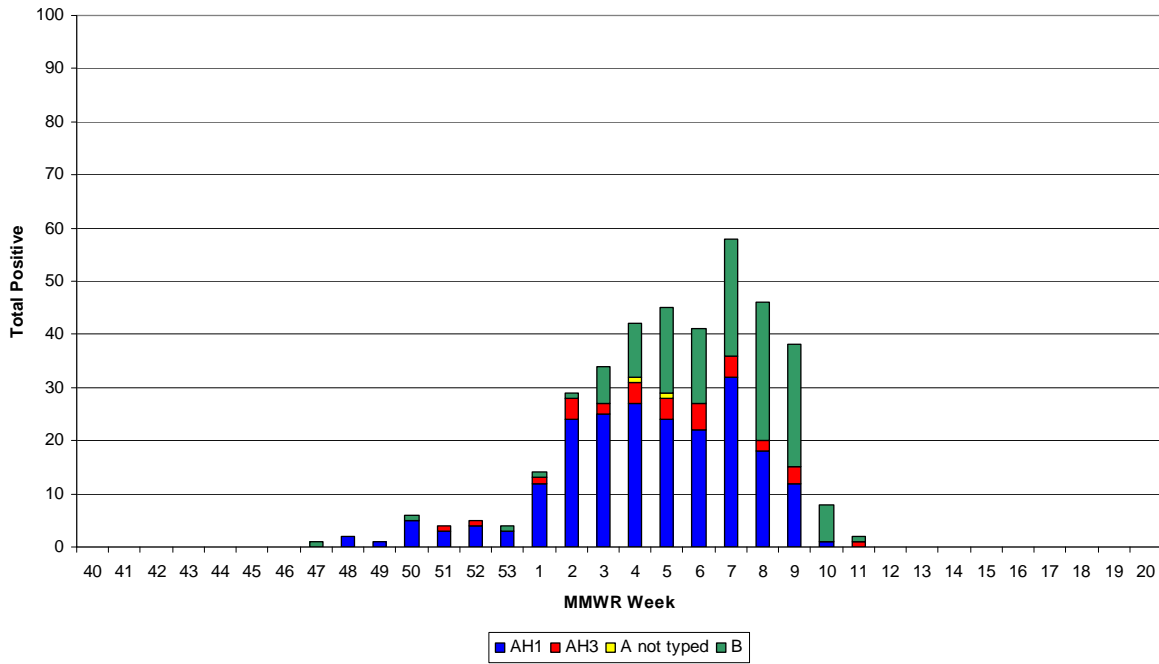
As of week 10, 380 samples were found to be positive by viral culture for influenza AH1, AH3 and influenza B. Rapid and culture results by county are displayed below.

County	Week 40 to Week 10							Week 8, 9, 10						
	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	33	8	0	10	1	0	0	9	6	0	1	1	0	0
Bergen County	19	11	0	15	2	2	8	4	8	0	9	1	0	8
Burlington County	45	14	0	1	0	0	0	11	8	0	0	0	0	0
Camden County	0	0	0	1	0	0	2	0	0	0	0	0	0	1
Cape May County	20	5	0	14	0	0	4	10	4	0	6	0	0	4
Cumberland County	0	0	0	6	0	0	4	0	0	0	5	0	0	3
Essex County	152	50	14	24	5	0	12	20	14	1	12	3	0	10
Gloucester County	0	0	0	4	1	0	12	0	0	0	3	1	0	10
Hudson County	29	6	0	17	2	0	10	3	3	0	6	0	0	6
Hunterdon County	4	0	51	22	5	0	13	0	0	16	8	1	0	8
Mercer County	2	0	0	14	0	0	8	1	0	0	7	0	0	6
Middlesex County	23	2	0	18	2	0	7	6	0	0	9	1	0	5
Monmouth County	36	12	63	11	3	0	4	15	12	16	3	2	0	0
Morris County	0	0	0	14	1	0	12	0	0	0	4	0	0	6
Ocean County	0	0	0	1	0	0	1	0	0	0	1	0	0	0
Passaic County	43	9	0	3	0	0	3	11	6	0	1	0	0	2
Salem County	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Somerset County	0	0	14	14	5	0	9	0	0	2	4	2	0	6
Sussex County	34	20	0	1	0	0	1	6	7	0	0	0	0	0
Union County	5	1	0	22	5	0	19	1	0	0	5	2	0	9
Warren County	21	11	0	3	0	0	1	9	6	0	0	0	0	1
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Total	466	149	142	215	32	2	131	106	74	35	84	14	0	85

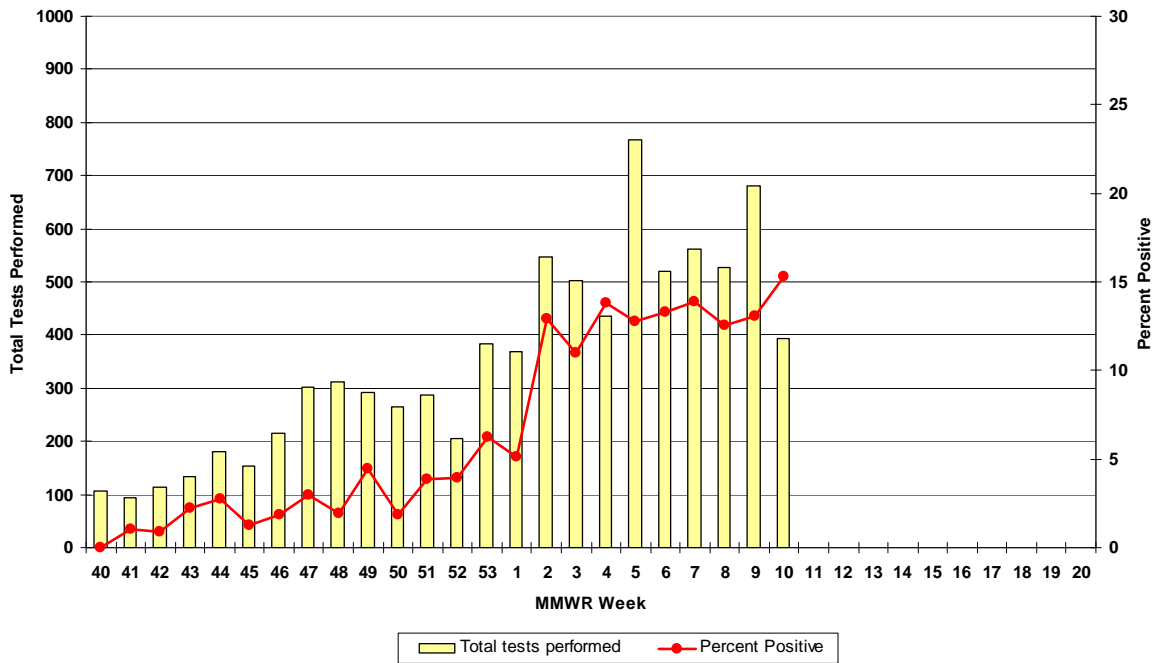
*Rapid data is acquired from facilities reporting rapid influenza tests via NREVSS or CDRSS ILI module. Culture results are obtained from the LIMS system at PHEL, hospital viral culture laboratories via NREVSS or commercial laboratories reporting in CDRSS. County of residence as provided by the laboratory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

**Thirty (20 AH1, 10 AH3) additional samples were found to positive by PCR but tested negative via culture. These results are not incorporated in the table above.

**Influenza Laboratory Report
Viral Culture Positive Specimens by Week
2008-2009 Influenza Season**



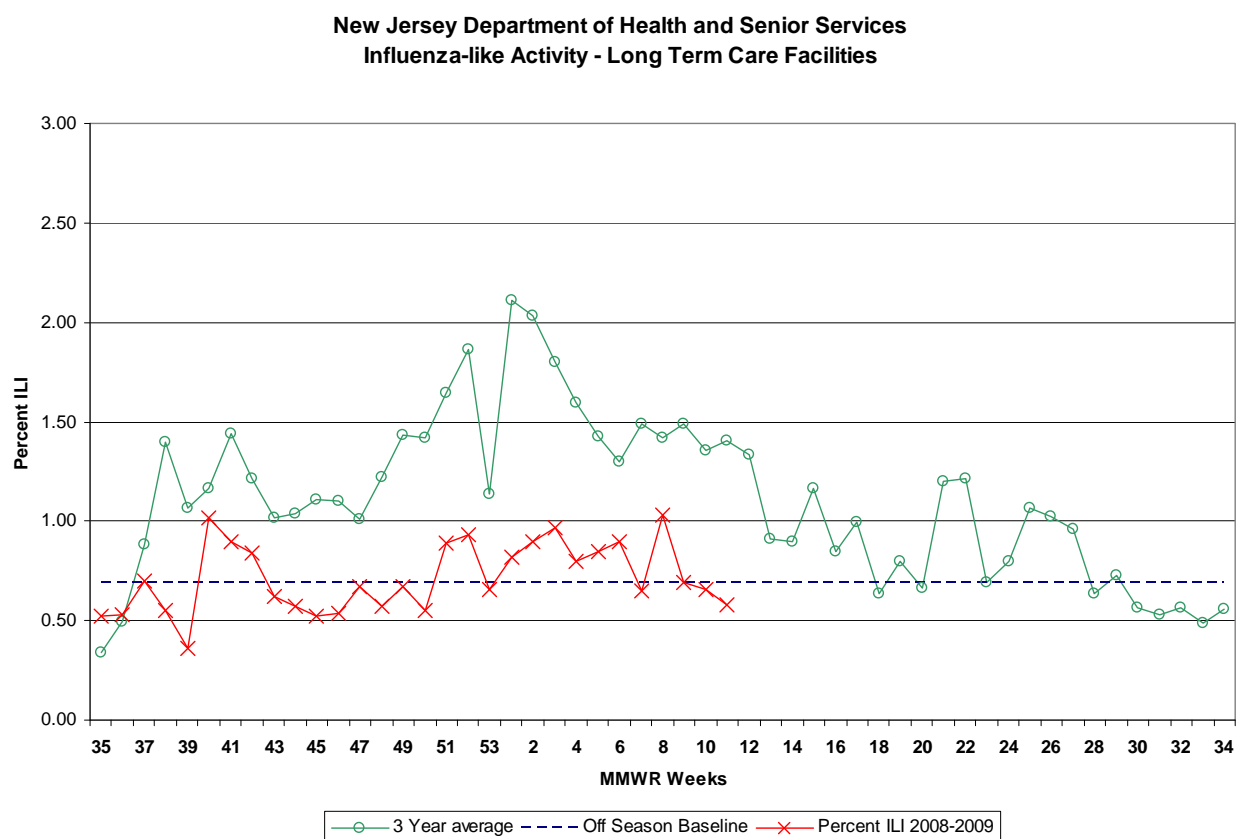
**Influenza Rapid Antigen Tests
Total and Percent Positive
2008-2009 Influenza Season**



Influenza-like Illness (ILI) Surveillance*

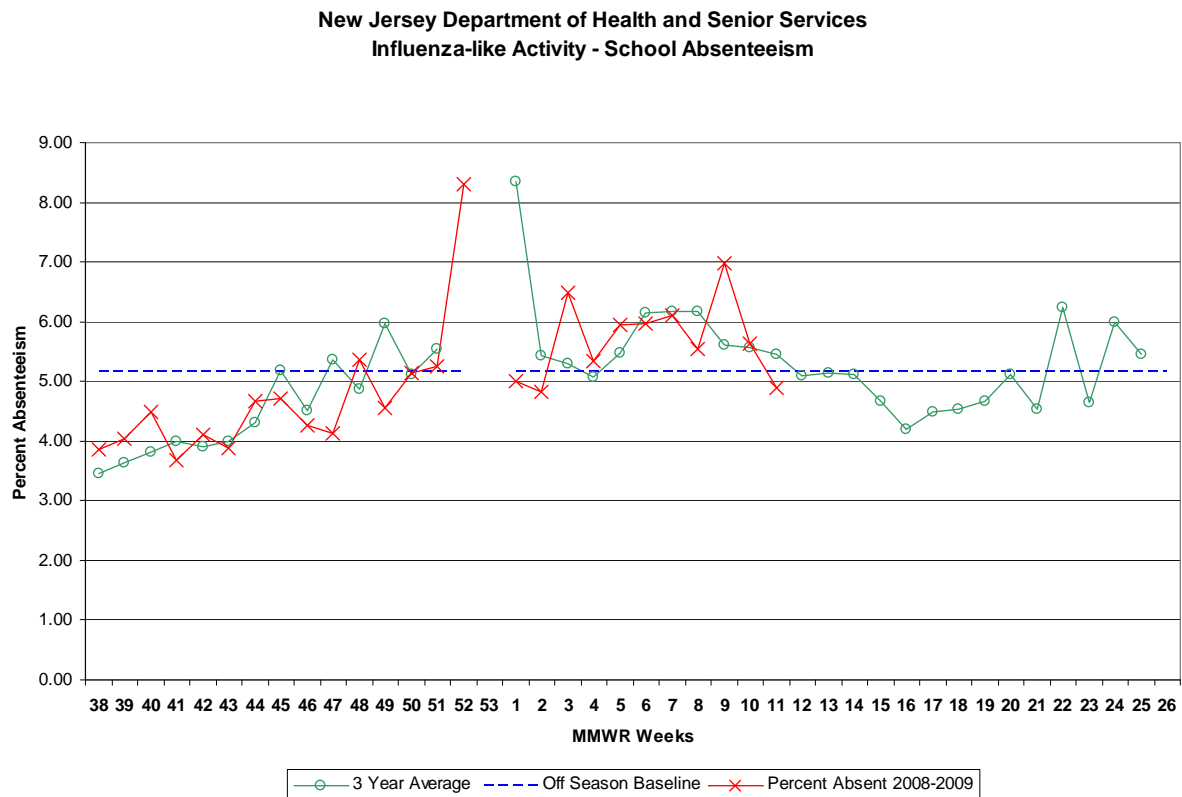
Long-term Care Facilities

During week 11, 0.58% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (0.66%). The percent ILI for each county ranged from 0.00% to 1.86%. The percent ILI for this same week last year was 1.87% in long-term care facilities. The percent ILI for the northeast (1.19%) and central west (0.82%) public health regions were above the state baseline (0.69%). The respiratory outbreak in a long term care facility received in week 10 was confirmed by culture to be caused by influenza AH3.



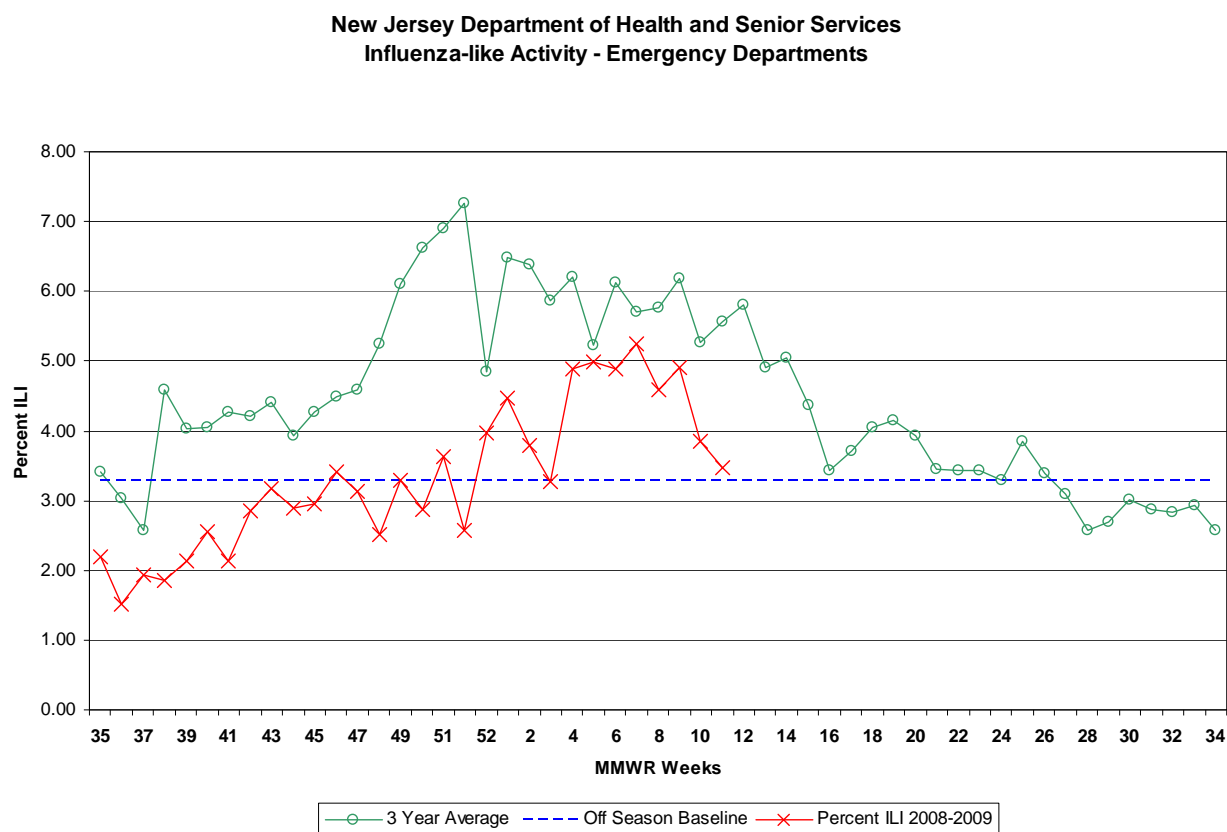
School Absenteeism

During week 11, schools reported 4.89% absenteeism. This is a decrease over the previous week (5.63%). The percent ILI for each county ranged from 2.83 to 6.77%. The percent absent for this same week last year was 5.33%. The percent ILI for the south (5.28%) public health region was above the state baseline (5.17%).



Emergency Departments

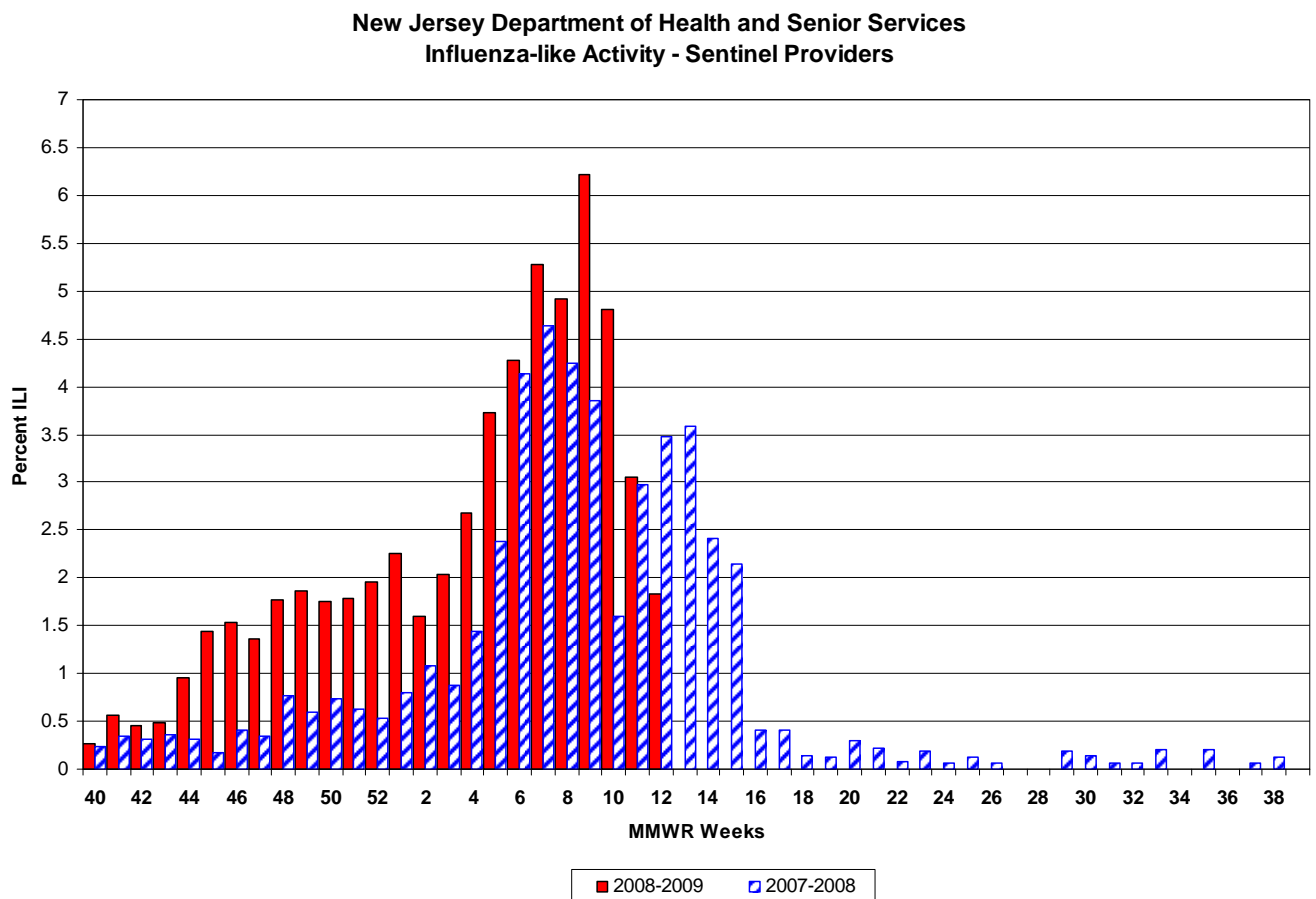
During week 11, 3.48% of ILI was reported statewide from emergency departments. This is a decrease over the previous week (3.85%). The percent ILI for each county ranged from 0.00 to 10.07%. The percent ILI for this same week last year was 5.14% in emergency departments. The percent ILI for the northwest (3.91%), northeast (4.37%), and central east (3.96%) public health regions were above the state baseline (2.60%).



Sentinel Provider Surveillance

During week 11, 1.84% of sentinel provider patient visits were due to ILI. These data reflect reports from nine (20%) of the enrolled sentinel providers.

During week 10, 3.05% of sentinel provider patient visits were due to ILI. These data reflect reports from nineteen (43%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

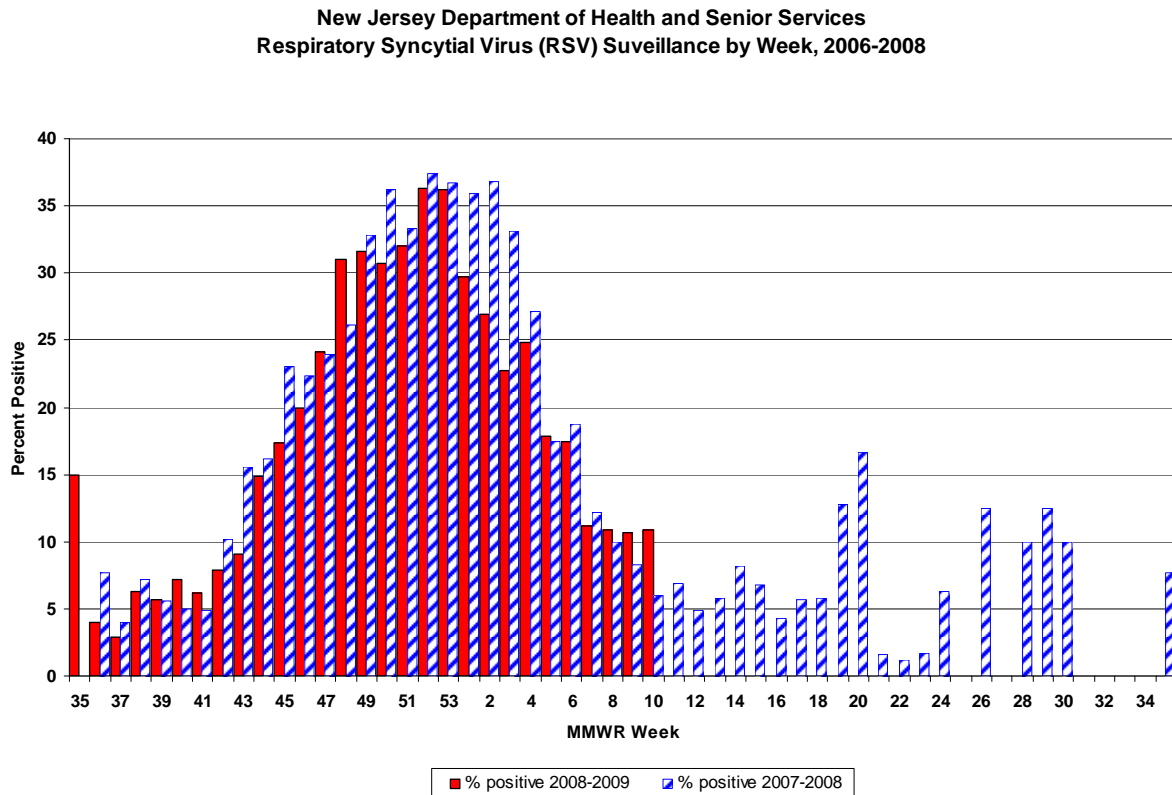
To date, NJDHSS has received twenty-one reports of pediatric illness and one death meeting the case definition.

122 City Mortality Report

During week 10, 5.00% 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 over the previous week (7.14%). The percentage of death due to pneumonia or influenza for this same week last year was 5.45%.

RSV Reports

During week 10, 10.88% of all RSV samples tested were positive. This is an increase over the previous week 10.67%. The percent of samples positive for RSV for this same week last year was 5.96%.



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 3 year (2006, 2007,2008) period during months when influenza is less likely to be circulating (May-August).

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

NOTE: CDC classifies the beginning of the MMWR year using the day of the week January 1 falls. Since January 1, 2009 fell on Thursday, the week ending January 3, 2009 is classified as Week 53. Since Week 53 has not been used for the past 3 influenza seasons, an average of weeks 51, 52, 1 and 2 was used to estimate data reported for week 53 in the past 3 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	4	2	0.82	19	16	6.15	4	3	1.45	3	31
BERGEN	3	0	0.00	25	15	4.77	6	0	0.00	2	8
BURLINGTON	6	1	0.00	115	67	4.86	3	2	1.59	1	13
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	3	33
CAPE MAY	6	3	0.27	11	9	5.74	1	1	5.10	0	3
CUMBERLAND	6	0	0.00	18	9	6.77	3	3	4.72	0	6
ESSEX	18	5	1.24	34	4	2.83	11	10	4.62	11	79
GLOUCESTER	5	5	0.00	4	4	3.85	2	2	0.90	2	6
HUDSON	10	2	1.01	92	55	5.31	6	5	3.76	1	12
HUNTERDON	4	4	0.45	8	8	3.69	1	1	3.19	2	4
MERCER	11	5	0.34	26	21	4.12	5	2	1.22	1	27
MIDDLESEX	2	0	0.00	89	25	4.17	5	1	8.94	8	79
MONMOUTH	14	2	0.00	24	19	6.71	5	5	1.30	1	24
MORRIS	2	0	0.00	13	13	3.67	4	1	1.42	6	27
OCEAN	6	0	0.00	20	0	0.00	4	0	0.00	3	8
PASSAIC	9	3	0.00	23	9	6.70	6	0	0.00	1	27
SALEM	4	0	0.00	5	0	0.00	1	1	0.00	0	1
SOMERSET	5	4	1.86	63	16	2.93	2	0	0.00	0	0
SUSSEX	5	5	0.48	22	22	5.11	2	2	0.91	1	4
UNION	4	1	0.00	130	38	4.48	5	5	5.70	1	36
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	2	0.00	21	13	4.90	2	2	10.07	0	4
NW Region	23	10	0.29	79	57	5.16	14	5	3.91	8	62
NE Region	31	7	1.19	151	74	5.15	23	15	4.37	14	99
CW Region	20	13	0.82	97	45	3.61	8	3	1.77	3	31
CE Region	26	3	0.00	263	82	4.85	19	11	3.96	13	147
South Region	38	11	0.29	189	105	5.28	21	12	2.20	9	93
State Total	138	44	0.58	779	363	4.89	85	46	3.48	47	432