

New Jersey Department of Health and Senior Services
Communicable Disease Service
Influenza Activity Summary
Week Ending January 31, 2009 (MMWR Week 4)

Influenza Activity Level: **REGIONAL**

All three reporting parameters were above state baseline. Twelve counties have 2 of 3 parameters above state baseline and eleven counties have had culture positive samples in the last 3 weeks. Eight 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 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

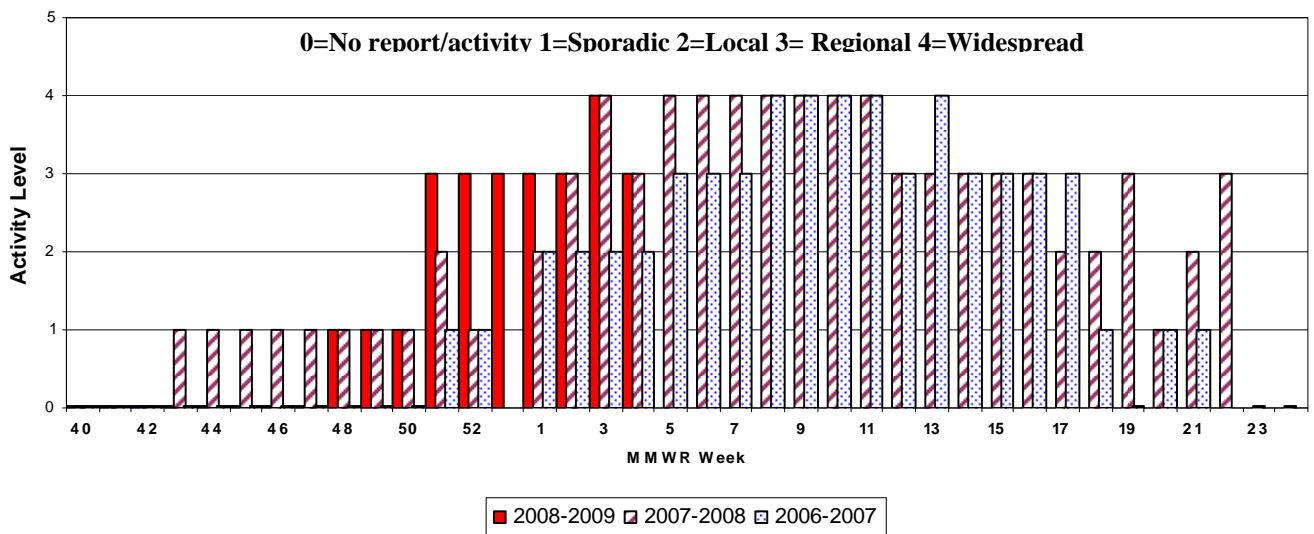
Regional – At least 2 of 3 parameters above state baseline in ≥ 2 but ≤ 10 counties **AND** laboratory confirmed cases from these same counties in past 3 weeks **OR** confirmed outbreaks institutions in ≥ 2 but ≤ 10 counties

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

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	LOCAL
NE Region	Bergen, Essex, Hudson	LOCAL
CW Region	Hunterdon, Mercer, Somerset	LOCAL
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

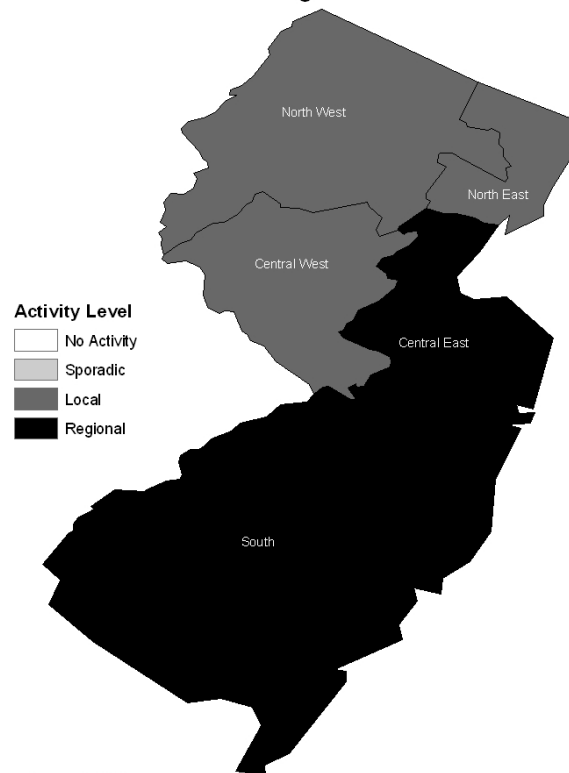
Sporadic – At least 2 of 3 parameters above state baseline **AND** confirmed laboratory cases anywhere in the public health region **OR** at least one laboratory confirmed outbreak in an institution anywhere in the public health region

Local – At least 2 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



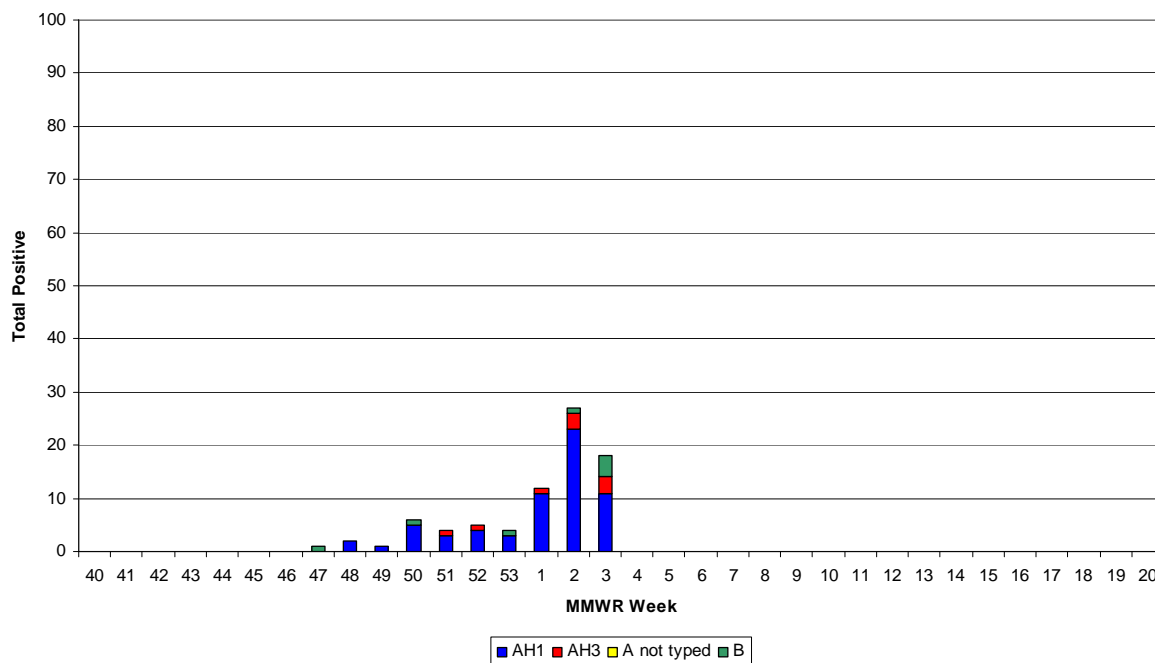
Laboratory Surveillance

As of week 3, eighty 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.

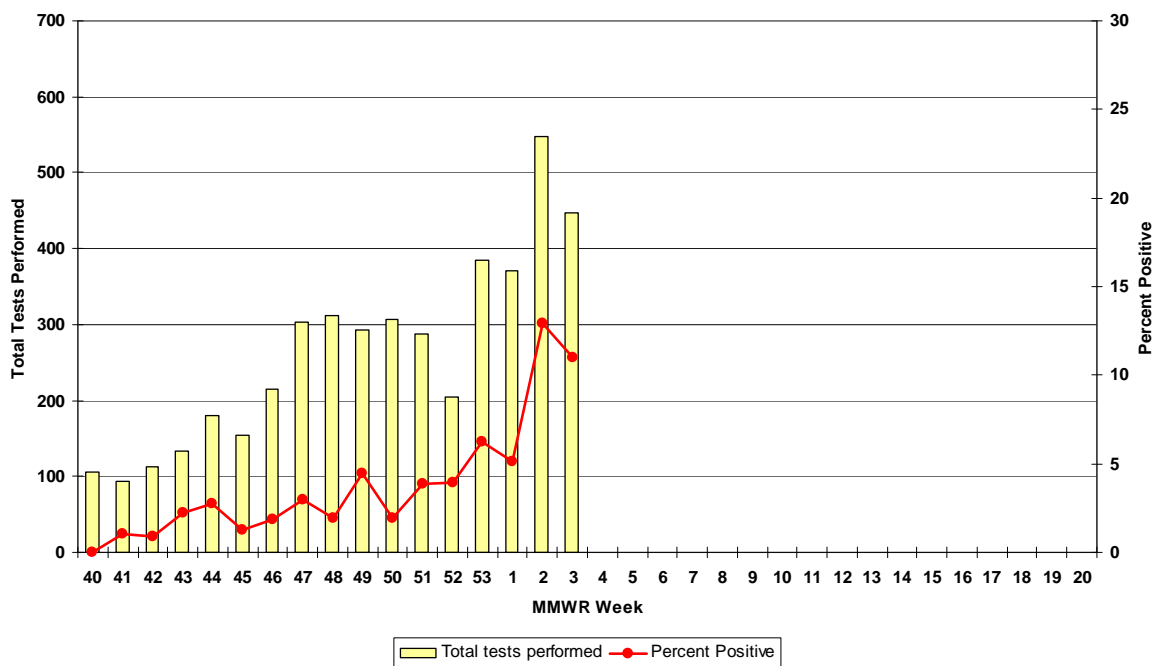
County	Week 40 to Week 3							Week 1, 2, 3						
	Rapid*			Culture*				Rapid*			Culture*			
	A	B	A/B	A H1	A H3	A UNK	B	A	B	A/B	A H1	A H3	A UNK	B
Atlantic County	7	0	0	7	0	0	0	7	0	0	7	0	0	0
Bergen County	8	1	0	2	0	0	0	5	1	0	1	0	0	0
Burlington County	13	0	0	0	0	0	0	4	0	0	0	0	0	0
Camden County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cape May County	7	0	0	4	0	0	0	7	0	0	4	0	0	0
Cumberland County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Essex County	62	19	10	1	1	0	1	44	11	6	0	0	0	1
Gloucester County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hudson County	12	2	0	4	1	0	0	6	0	0	3	1	0	0
Hunterdon County	4	0	11	9	1	0	1	4	0	3	4	1	0	0
Mercer County	1	0	0	1	1	0	0	0	0	0	1	1	0	0
Middlesex County	9	0	0	3	1	0	0	5	0	0	0	1	0	0
Monmouth County	10	0	14	6	1	0	1	2	0	11	5	0	0	0
Morris County	0	0	0	5	1	0	2	0	0	0	2	1	0	2
Ocean County	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Passaic County	18	1	0	0	0	0	0	7	0	0	0	0	0	0
Salem County	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Somerset County	0	0	4	6	1	0	0	0	0	4	6	1	0	0
Sussex County	11	4	0	1	0	0	0	8	2	0	1	0	0	0
Union County	1	1	0	12	1	0	2	0	0	0	9	1	0	1
Warren County	2	0	0	2	0	0	0	2	0	0	2	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Total	165	28	39	63	9	0	8	101	14	24	45	7	0	5

*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.

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



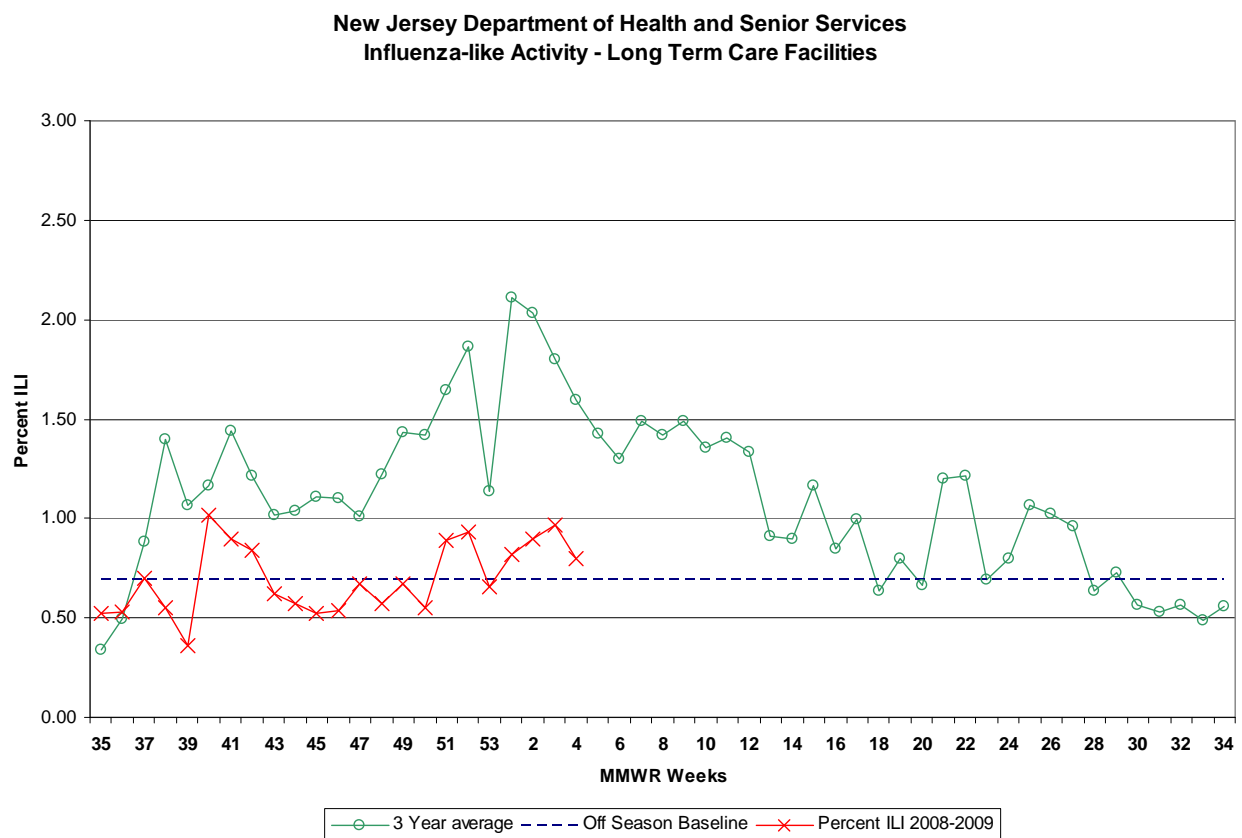
**Influenza Rapid Antigen Tests
Total and Percent Positive
2008-2009 Influenza Season**



Influenza-like Illness (ILI) Surveillance*

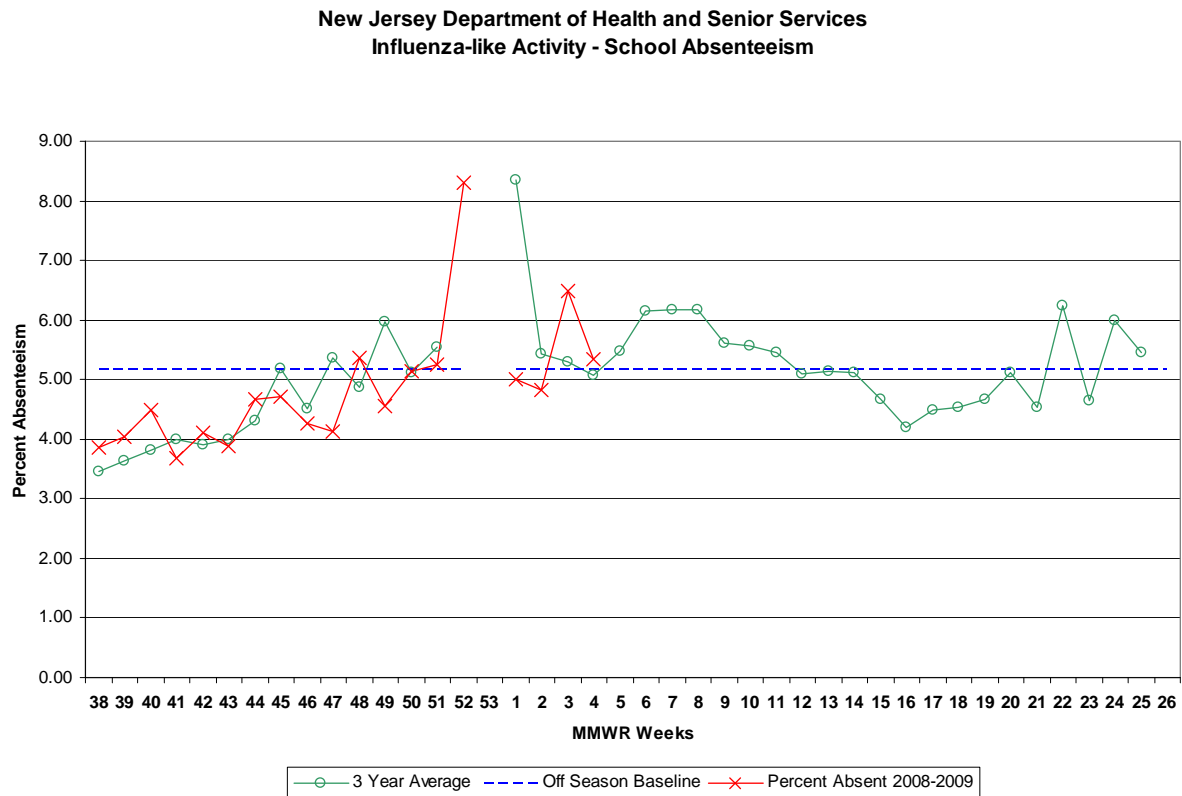
Long-term Care Facilities

During week 4, 0.80% ILI was reported statewide from long term care facilities. This is a decrease over the previous week (0.97%). The percent ILI for each county ranged from 0.00% to 3.25%. The percent ILI for this same week last year was 1.27% in long-term care facilities. The percent ILI for the northwest (0.92%), northeast (2.58%) and central west (0.81%) public health regions were above the state baseline (0.69%). No new respiratory outbreaks in long term care facilities were received in week 4.



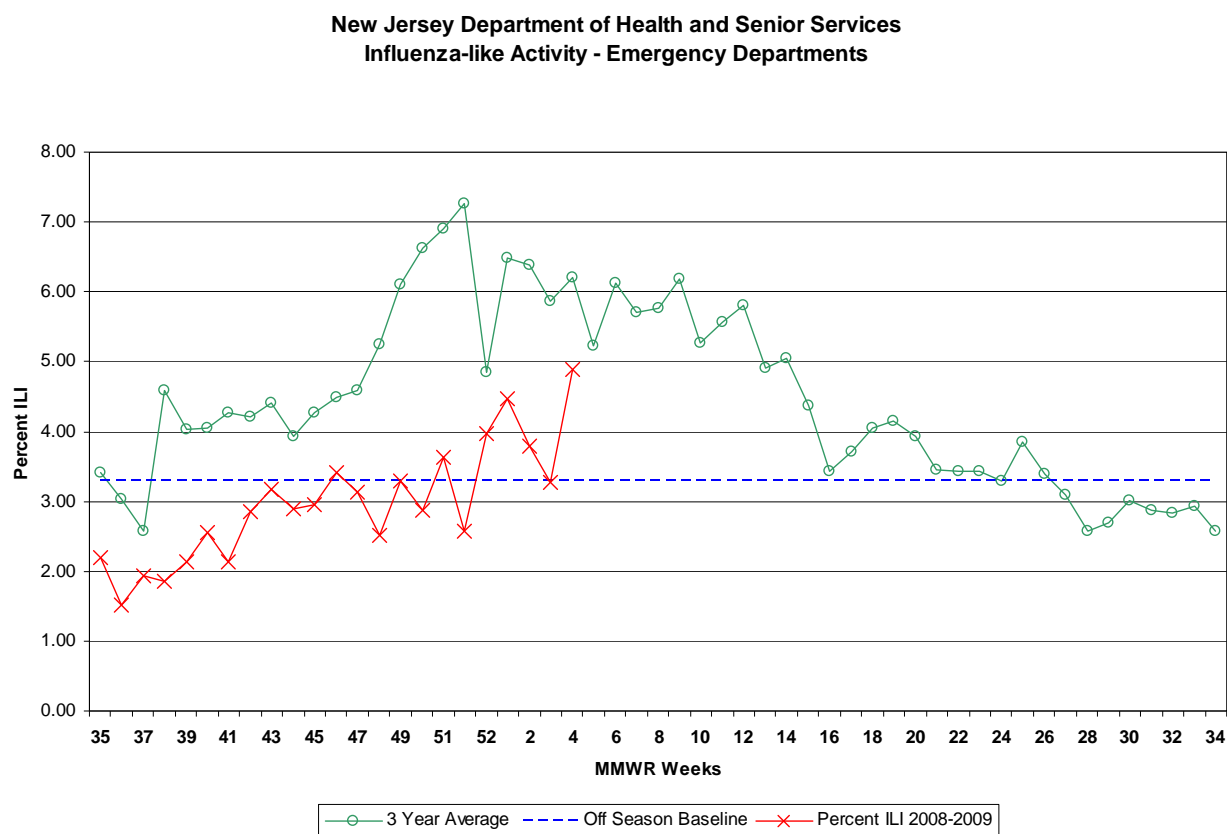
School Absenteeism

During week 4, schools reported 5.35% absenteeism. This is a decrease over the previous week (6.49%). The percent ILI for each county ranged from 3.36 to 7.56%. The percent absent for this same week last year was 5.45%. The percent ILI for the northwest (6.07%), northeast (5.18%), central west (5.39%) and the south (5.46%) public health regions were above the state baseline (5.17%).



Emergency Departments

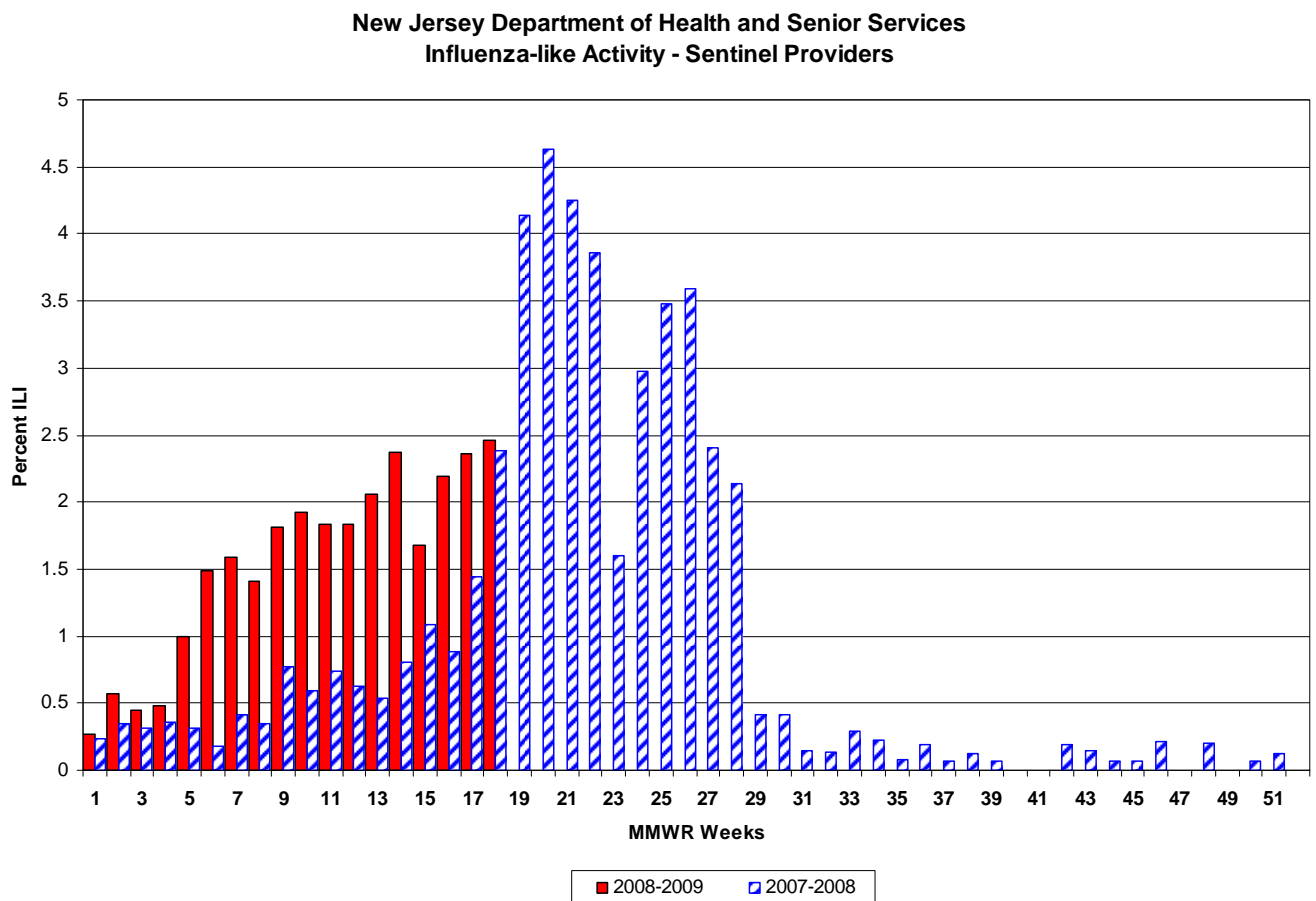
During week 4, 4.89% of ILI was reported statewide from emergency departments. This is an increase over the previous week (3.28%). The percent ILI for each county ranged from 1.01 to 8.98%. The percent ILI for this same week last year was 5.01% in emergency departments. The percent ILI for the northwest (4.12%), northeast (7.31%), central west (4.73%), central east (4.64%), and south (4.20%) public health regions were above the state baseline (2.60%).



Sentinel Provider Surveillance

During week 4, 2.46% of sentinel provider patient visits were due to ILI. These data reflect reports from twelve (27%) of the enrolled sentinel providers.

During week 3, 2.36% of sentinel provider patient visits were due to ILI. These data reflect reports from twenty-two (50%) of the enrolled sentinel providers.



Pediatric Influenza Surveillance

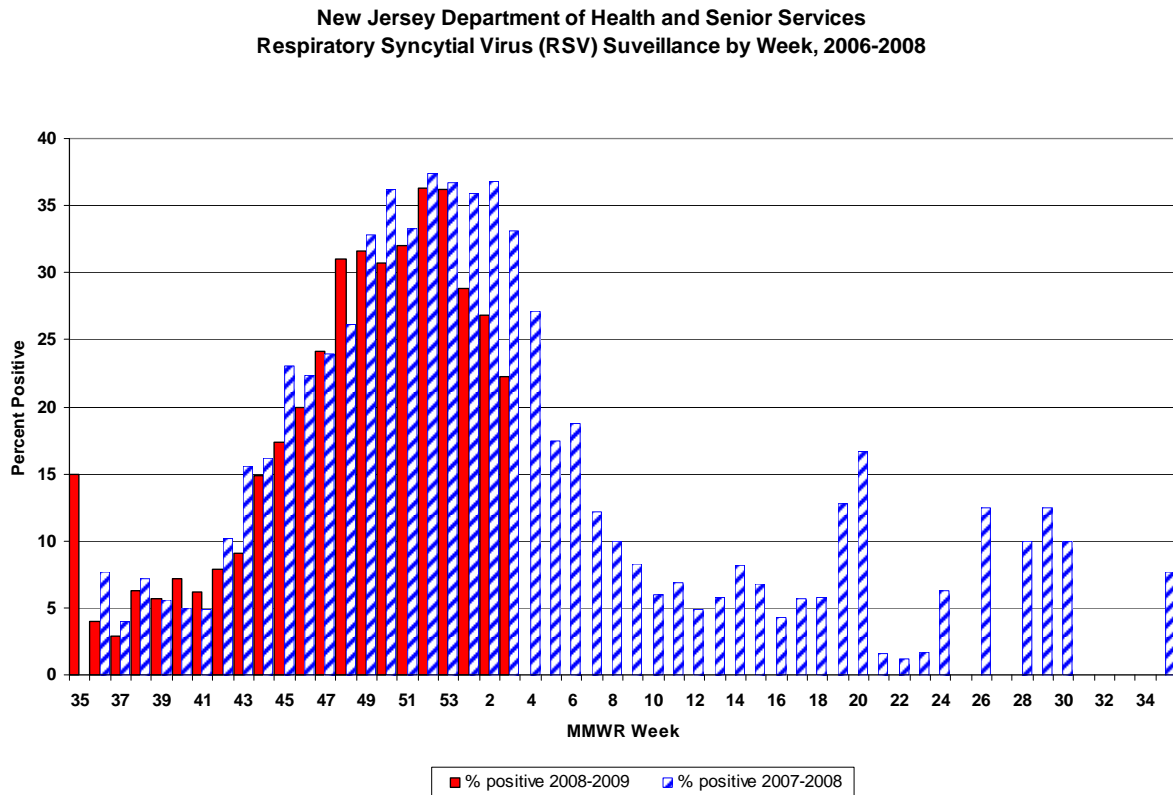
To date, NJDHSS has received seven reports of pediatric illness meeting the case definition. No deaths have been reported as of week 4.

122 City Mortality Report

During week 3, 6.02% of all deaths reported by the vital statistics offices in 6 New Jersey cities (i.e., Camden, Elizabeth, Newark, Jersey City, Paterson, Trenton) were due to pneumonia or influenza. This is a decrease over the previous week (6.15%). The percentage of death due to pneumonia or influenza for this same week last year was 7.34%.

RSV Reports

During week 3, 22.22% of all RSV samples tested were positive. This is a decrease over the previous week 26.82%. The percent of samples positive for RSV for this same week last year was 33.12%.



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	1	0.53	18	16	6.53	4	4	3.85	8	40
BERGEN	3	0	0.00	25	10	4.57	6	0	0.00	2	39
BURLINGTON	6	4	0.00	115	69	4.80	3	3	2.74	7	24
CAMDEN	7	0	0.00	17	0	0.00	7	0	0.00	8	37
CAPE MAY	6	4	0.62	11	9	6.68	1	1	7.41	0	5
CUMBERLAND	6	2	1.56	18	5	7.56	3	3	8.98	11	19
ESSEX	18	4	3.25	34	2	3.36	11	5	7.31	17	99
GLOUCESTER	5	2	0.00	2	1	6.38	2	2	1.87	2	5
HUDSON	10	1	0.00	92	53	5.29	6	0	0.00	5	27
HUNTERDON	4	4	0.67	8	8	4.34	1	0	0.00	6	13
MERCER	11	7	0.60	26	19	6.16	5	4	4.73	6	36
MIDDLESEX	2	1	0.00	89	18	3.34	5	2	7.76	0	0
MONMOUTH	14	4	0.80	24	13	5.87	5	4	1.01	10	25
MORRIS	2	0	0.00	13	0	0.00	4	0	0.00	0	0
OCEAN	6	1	0.00	20	16	6.37	4	2	7.45	5	19
PASSAIC	9	2	1.13	23	5	6.34	6	0	0.00	11	33
SALEM	4	0	0.00	5	0	0.00	1	0	0.00	1	3
SOMERSET	5	2	1.59	63	12	4.72	2	0	0.00	0	2
SUSSEX	5	5	0.85	22	22	6.01	2	2	4.12	1	7
UNION	4	2	0.19	130	31	5.52	5	5	5.16	0	12
UNKNOWN	0	0	0.00	0	0	0.00	0	0	0.00	0	0
WARREN	7	0	0.00	21	0	0.00	2	0	0.00	0	5
NW Region	23	7	0.92	79	27	6.07	14	2	4.12	12	45
NE Region	31	5	2.58	151	65	5.18	23	5	7.31	24	165
CW Region	20	13	0.81	97	39	5.39	8	4	4.73	12	51
CE Region	26	8	0.46	263	78	5.05	19	13	4.64	15	56
South Region	38	13	0.52	186	100	5.46	21	13	4.20	37	133
State Total	138	46	0.80	776	309	5.35	85	37	4.89	100	450