




# Respiratory Virus Surveillance Report<sup>1</sup>

New Jersey Department of Health  
Communicable Disease Service



Week ending February 9, 2013 (MMWR week 6)

## SYNOPSIS

Influenza Activity Level <sup>2</sup>		
State Activity Week ending 02/09:		
<b>HIGH</b>		
Current week Last year: MODERATE		
Regional <sup>3</sup> Data		
Northwest		MODERATE
Northeast		HIGH
Central West		HIGH
Central East		HIGH
South		HIGH

ILI Activity <sup>4</sup>				
	Percent ILI/Absenteeism			Baselines
	Current week (range by county)	Last week Current year	Current week Last year	Non-season <sup>5</sup> Season <sup>6</sup> (3 low, 3 high)
Long Term Care Facilities	1.00 (0.00, 1.76)	1.43	0.38	0.59 (0.62, 0.85)
Schools (absenteeism)	5.56 (4.14, 7.07)	5.38	4.62	3.85 (4.75, 4.85)
Emergency Departments	4.95 (0.00, 8.97)	5.90	2.57	2.59 (3.43, 4.34)

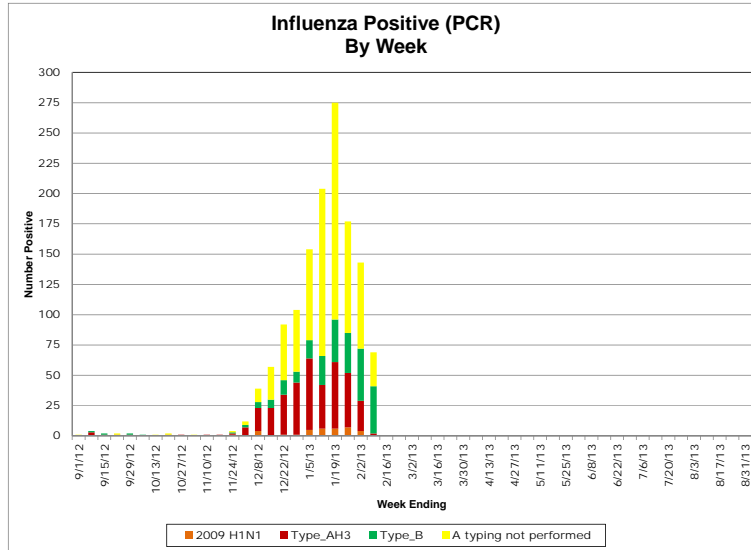
Viral Activity <sup>7</sup>			
	Current Week	Past 3 Weeks	Cumulative Total
Influenza H1N1 (2009)	0	11	35
Influenza H3N2	2	72	358
Influenza B	39	115	229
Respiratory Syncytial Virus (RSV)	118	492	2527
Rapid Influenza Tests	397	1516	4031

ILINet Providers			
Current Week		Previous Week	
#of reporters	%ILI	#of reporters	%ILI
5	3.84	13	4.92

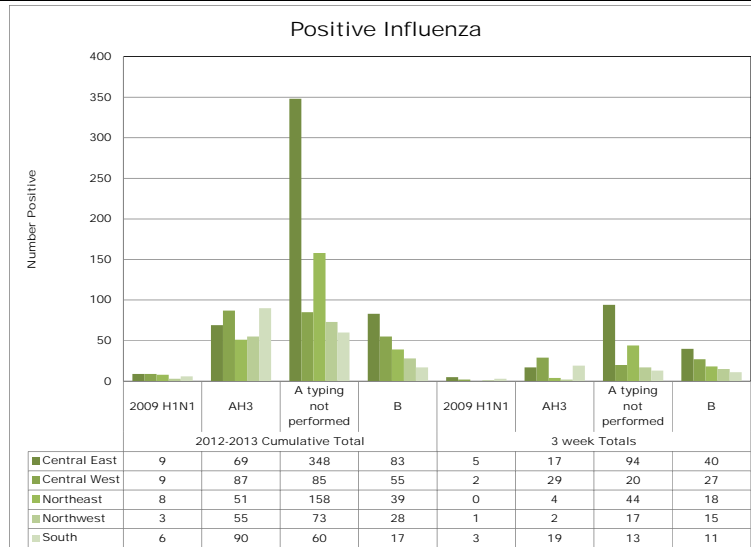
Report also available at: <http://nj.gov/health/flu/fluinfo.shtml>

# Virologic Surveillance<sup>7</sup>

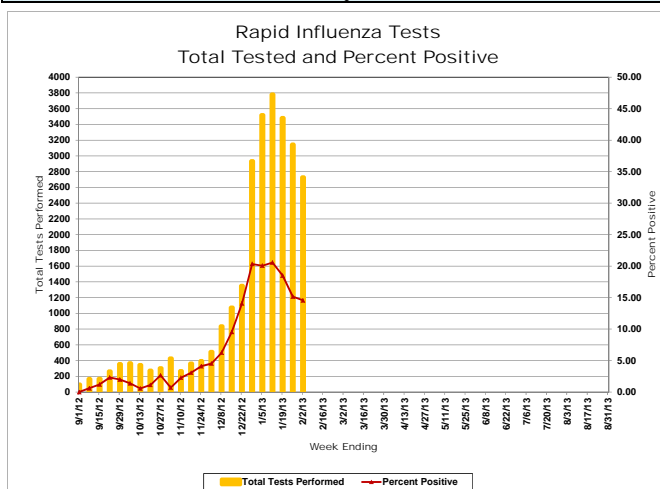
## Influenza Positive Specimens (PCR) - Result by Week



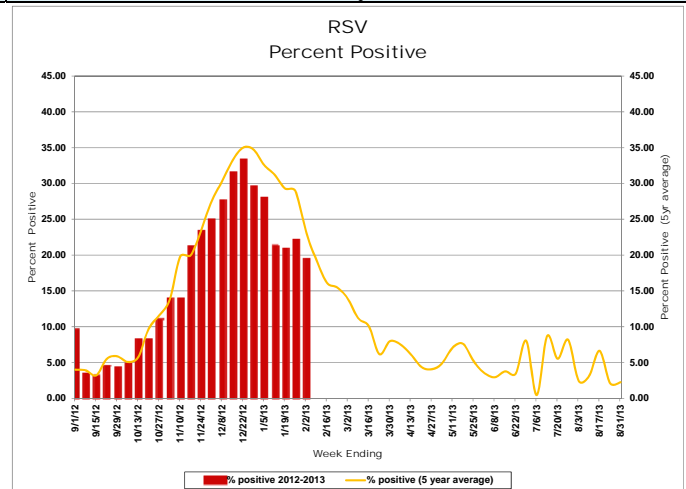
## Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>



## Influenza Rapid Antigen Result by Week



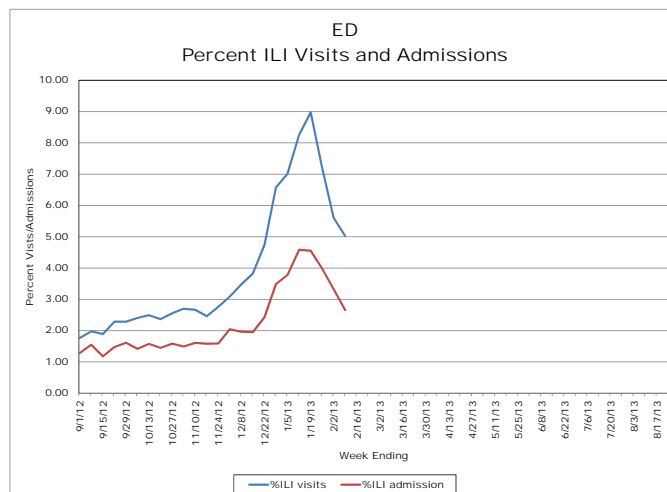
## Respiratory Syncytial Virus (RSV) Results by Week



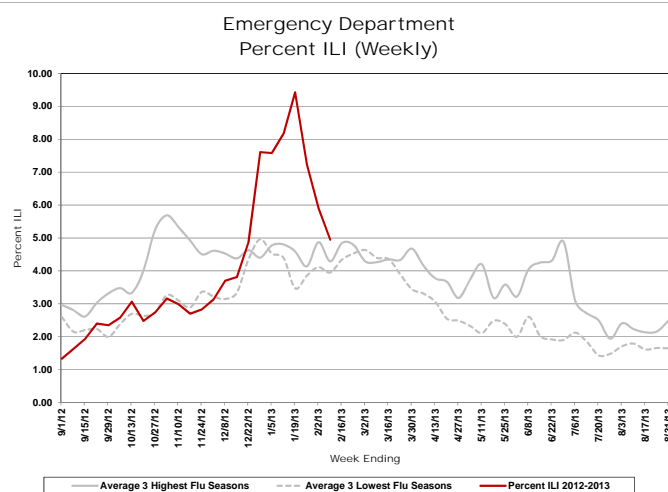
## Influenza-like Illness Surveillance

### Emergency Department<sup>8</sup>

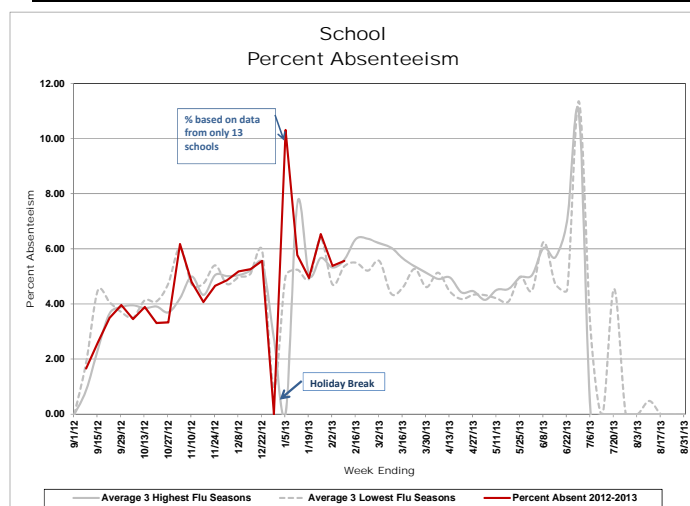
#### Daily Visits and Admission



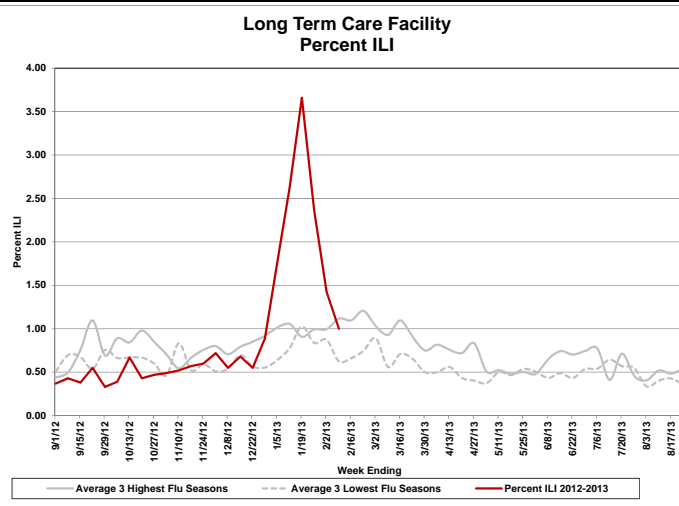
#### Visits – Tuesday Only



#### School Absenteeism



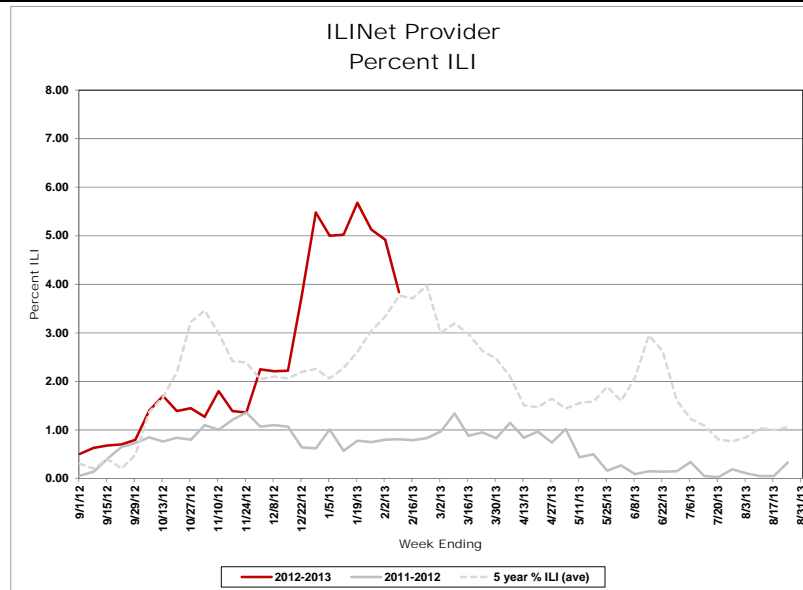
#### Long Term Care Facilities



## Respiratory Outbreaks in Long Term Care Facilities<sup>9</sup>

<b>Cumulative outbreaks 2012-2013 season</b>	75
<b>No. outbreaks last 3 weeks</b>	13
<b>Regions with recent outbreaks</b>	NW(1), NE(2), CW(1), CE(5), S(4)

## ILINet Providers



<b>Table 1</b> <b>Influenza Activity Level – Definitions for State Activity</b>				
<b><u>NJ Level</u></b>	<b><u>CSTE Level</u></b>	<b><u>Definition</u></b>		
		<b><u>ILI Activity/Outbreaks</u></b>		<b><u>Lab Activity</u></b>
Low	No Activity	ILI activity at or below baseline AND no detected outbreaks	AND	No lab confirmed cases
	Sporadic	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the state	AND	Sporadic isolation of laboratory confirmed influenza
Moderate	Local	Increase in ILI activity OR two or more lab confirmed outbreaks in one public health region (Other regions not experiencing increased ILI activity)	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI
	Regional	Increase in ILI activity OR two or more lab confirmed outbreaks in at least 2 public health regions (Other regions not experiencing increased ILI activity)	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI
High	Widespread	Increase in ILI activity OR two or more lab confirmed outbreaks in > 2 public health regions	AND	Recent (within 3 weeks) laboratory activity in the region with increased ILI

<b>Table 2</b> <b>Influenza Activity Level – Definitions for Public Health Regions</b>			
<b><u>NJ Level</u></b>	<b><u>Definition</u></b>		
	<b><u>ILI Activity/Outbreaks</u></b>		<b><u>Lab Activity</u></b>
Low	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the region	AND	Sporadic isolation of laboratory confirmed influenza anywhere in the region
Moderate	Increased ILI activity in less than half of the counties in the region OR two lab confirmed outbreaks in the public health region	AND	Recent (within 3 weeks) laboratory activity in same counties of the region with increased ILI
High	Increased ILI activity in more than half of the counties in the region OR three or more lab confirmed outbreaks in the region	AND	Recent (within 3 weeks) laboratory activity in more than half of the counties in the region with increased ILI

*Notes:*

ILI activity: Systems used to detect increases in ILI activity include: ILINet (i.e., sentinel providers), school absenteeism data, ED ILI visits and admission collected via Hippocrates and EpiCenter systems, LTCF ILI data, LTCF outbreak data, and information on influenza mortality (122 city, influenza associated death report).

Lab Activity: Virologic surveillance data from PHEL and commercial laboratories will be used as the primary data source for the above levels. However, rapid influenza test data will also be considered when determining the appropriate activity levels.



	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
<b>February, 5, 2013 12:00 AM MMRW WEEK 6</b>									
ATLANTIC	4	2	0.00	51	42	6.58	5	4	3.41
BERGEN	6	2	0.91	36	17	5.82	5	5	5.47
BURLINGTON	6	0	0.00	115	61	5.77	4	3	4.54
CAMDEN	5	0	0.00	17	0	0.00	7	7	5.67
CAPE MAY	7	3	0.00	11	10	7.07	1	1	5.88
CUMBERLAND	2	2	2.47	12	7	6.89	3	3	5.20
ESSEX	11	4	0.91	22	8	4.63	11	8	5.32
GLOUCESTER	5	4	0.97	6	6	4.96	2	2	4.87
HUDSON	16	5	1.14	89	64	5.35	6	6	5.27
HUNTERDON	4	3	1.12	8	8	4.99	1	1	2.83
MERCER	10	1	0.00	27	20	4.93	5	5	8.97
MIDDLESEX	20	9	1.04	35	22	4.21	6	6	6.29
MONMOUTH	15	4	1.63	26	17	5.44	5	5	3.64
MORRIS	4	0	0.00	5	0	0.00	4	4	3.20
OCEAN	23	12	1.76	24	22	6.74	4	2	4.99
PASSAIC	11	7	0.09	66	50	5.80	3	3	5.33
SALEM	2	1	0.00	13	8	5.86	1	1	0.00
SOMERSET	7	4	1.57	92	29	4.14	1	1	9.25
SUSSEX	6	3	0.16	24	14	6.22	2	2	0.00
UNION	4	1	0.00	195	19	5.05	5	5	1.40
UNKNOWN	0	0	0.00	1	1	6.67	0	0	0.00
WARREN	4	2	0.00	27	14	5.57	2	2	1.55
<b>NW Region</b>	25	12	0.11	122	78	5.84	11	11	3.68
<b>NE Region</b>	33	11	1.04	147	89	5.36	22	19	5.35
<b>CW Region</b>	21	8	1.39	127	57	4.49	7	7	8.23
<b>CE Region</b>	62	26	1.37	280	80	5.41	20	18	4.29
<b>South Region</b>	31	12	1.01	225	134	6.18	23	21	4.81
<b>State Total</b>	<b>172</b>	<b>69</b>	<b>1.00</b>	<b>901</b>	<b>438</b>	<b>5.56</b>	<b>83</b>	<b>76</b>	<b>4.95</b>

	RSV Tests		Flu Tests		
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
<b>February, 5, 2013 12:00 AM MMRW WEEK 6</b>					
ATLANTIC	10	70	49	223	
BERGEN	6	19	82	486	
BURLINGTON	9	28	44	362	
CAMDEN	7	57	4	94	
CAPE MAY	1	13	14	68	
CUMBERLAND	1	5	0	0	
ESSEX	13	55	40	334	
GLOUCESTER	4	19	16	99	
HUDSON	9	52	0	0	
HUNTERDON	2	12	16	109	
MERCER	3	8	3	20	
MIDDLESEX	17	83	0	0	
MONMOUTH	21	114	72	444	
MORRIS	2	5	8	66	
OCEAN	4	23	24	165	
PASSAIC	0	0	0	0	
SALEM	0	3	0	0	
SOMERSET	0	0	0	0	
SUSSEX	1	9	2	6	
UNION	5	28	11	105	
WARREN	3	9	12	145	
<b>NW Region</b>	6	23	22	217	
<b>NE Region</b>	28	126	122	820	
<b>CW Region</b>	5	20	19	129	
<b>CE Region</b>	47	248	107	714	
<b>South Region</b>	32	195	127	846	
<b>State Total</b>	<b>118</b>	<b>612</b>	<b>397</b>	<b>2726</b>	