

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



New Jersey Department of Health Communicable Disease Service

Week ending February 23, 2013 (MMWR week 8)

### **SYNOPSIS**

	Influenza Activity Le	vel <sup>2</sup>
State Activi	ty Week ending 02/23:	Sussex Pas Surgert
	HIGH	Maria See at Milana Maria See at Milana
Current w	eek Last year: HIGH	Hunter of Mild don set diesey Mon
Re	egional <sup>3</sup> Data	Ocean
Northwest	HIGH	Gurlington Cambon
Northeast	HIGH	Salem Attantio
<b>Central West</b>	HIGH	Cumperiand
<b>Central East</b>	HIGH	•
South	HIGH	

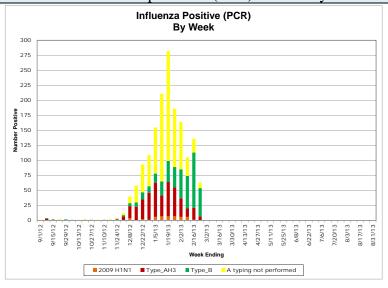
	ILI Activity <sup>4</sup>					
	P	Percent ILI/Absenteeism Baselines				
	Current week (range by county)	Last week Current year	Current week Last year	Non-season <sup>5</sup> Season <sup>6</sup> (3 low, 3 high)		
Long Term Care Facilities	1.09 (0.00, 3.46)	0.85	0.50	0.59 (0.62, 0.85)		
Schools (absenteeism)	5.95 (3.33, 8.20)	5.13	4.20	3.85 (4.75, 4.85)		
Emergency Departments	4.60 (0.00,7.90)	4.82	2.69	2.59 (3.43, 4.34)		

Viral A	ctivity <sup>7</sup>		
	Current Week	Past 3 Weeks	Cumulative Total
Influenza H1N1 (2009)	0	7	48
Influenza H3N2	7	41	403
Influenza B	47	192	390
Respiratory Syncytial Virus (RSV)	103	336	2745
Rapid Influenza Tests	221	892	4532

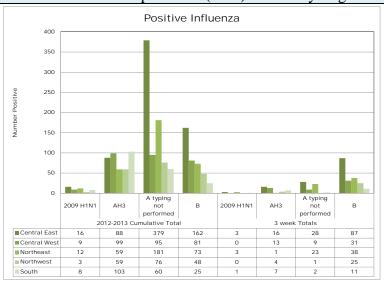
ILINet Providers					
Current Week		Previous Week			
#of reporters	%ILI	#of reporters	%ILI		
8	3.21	15	5.13		

## Virologic Surveillance<sup>7</sup>

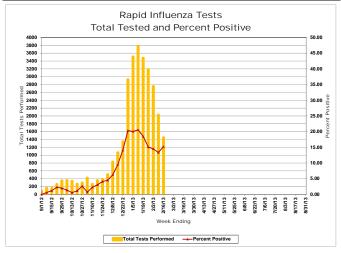
## Influenza Positive Specimens (PCR) - Result by Week



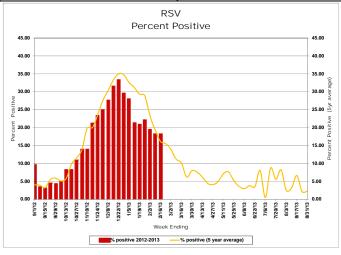
### Influenza Positive Specimens (PCR)- Result by Region<sup>3</sup>



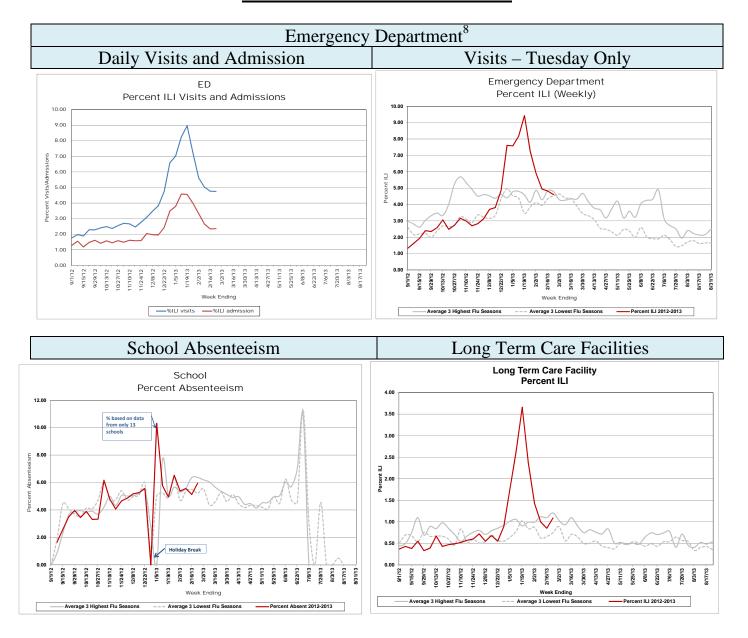
### Influenza Rapid Antigen Result by Week



# Respiratory Syncytial Virus (RSV) Results by Week



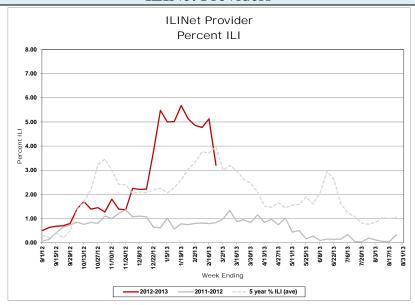
### Influenza-like Illness Surveillance



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

Cumulative outbreaks 2012-2013 season	76
No. outbreaks last 3 weeks	2
Regions with recent outbreaks	NE(1), S(1)





#### **Additional Information**

A second report containing information about age specific illness, hospitalization and deaths will be produced on a monthly basis or as needed when important information needs to be disseminated.

For additional information regarding influenza surveillance please visit the following websites.

http://nj.gov/health/flu/surveillance.shtml http://www.cdc.gov/flu/

#### Footnotes:

- 1. This report represents activity occurring in New Jersey related to influenza and RSV. In addition, reports of other circulating respiratory viruses will be included when available.
- 2. Activity levels for the state and region are defined in Table 1 and 2 at the end of this document.
- 3. The following is a breakdown of counties contained within each public health region: Northwest: Morris, Passaic, Sussex, Warren; Northeast: Bergen, Essex, Hudson; Central west: Hunterdon, Mercer, Somerset; Central East: Middlesex, Monmouth, Ocean, Union; South: Atlantic, Burlington, Camden, Cape May, Salem, Cumberland, Gloucester
- 4. Influenza-like illness (ILI) is defined as fever (> 100°F [37.8°C], oral or equivalent) and cough and/or sore throat (in the absence of a known cause other than influenza). For long term care facilities, fever is defined as 2° above baseline temperature.
- 5. Non-season baseline is calculated by taking the average of statewide percentages of ILI for a 7 year (2006, 2007, 2008, 2009, 2010, 2011, 2012) period during months when influenza is less likely to be circulating (May-August).
- 6. Three year seasonal averages are determined by calculating the average percent ILI/absenteeism for each influenza season (October to May). These averages are ranked and the three highest and lowest overall season averages were selected. The three highest and lowest numbers were then averaged to obtain a single high and single low value. The season which contribute to the high and low value vary by entity type and are as follows: LTCF (High: 06-07, 07-08, 08-09; Low: 09-10, 10-11,11-12), ED (High: 06-07, 08-09, 09-10; Low: 07-08, 10-11, 11-12) and schools (High: 06-07, 07-08, 08-09; Low: 09-10, 10-11,11-12). A week by week average was also calculated using the average of the seasons listed above for each entity type.
- 7. Viral activity: Real-time polymerase chain reaction (PCR) results are obtained from electronic laboratory transmission submitted by acute care, commercial and public health laboratories to CDRSS. Rapid influenza test data and respiratory syncytial virus data are acquired from facilities reporting rapid influenza tests via the National Respiratory and Enteric Virus Surveillance System (NREVSS) or CDRSS ILI module. Counts for cumulative totals begin with week ending October 6, 2012. Three week count data includes current week and two prior weeks. Data presented for RSV and rapid influenza testing represent information for the week prior to the current report week.
- 8. Daily visits and admission associated with ILI from emergency department data is collected via EpiCenter and Hippocrates. Prior to these systems, data on ILI visits were only recorded one day per week usually on Tuesday. This system is maintained as a large amount of historical data allows for better seasonal comparisons.
- 9. Only LTCF outbreaks reported to NJDOH that received an outbreak number are recorded in this report.

	I	<u>Table 1</u> nfluenza Activity Level – Definitions for	State Ac	tivity
NJ Level	CSTE Level	Def	<u>inition</u>	
		ILI Activity/Outbreaks		Lab Activity
	No Activity	ILI activity at or below baseline AND no detected outbreaks	AND	No lab confirmed cases
Low	Sporadic	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the state	AND	Sporadic isolation of laboratory confirmed influenza
	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
Moderate	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

<u>Table 2</u> Influenza Activity Level – Definitions for Public Health Regions						
NJ Level	NJ Level Definition					
Low	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the region	AND	Lab Activity  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.

Communicable Disease Reporting and Surveillance System

## NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 02/19/2013 to 02/19/2013



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		Long Term Care	,		Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% IL1	
February, 19, 2013 12:00 AM MN	IRW WEEK 8									
ATLANTIC	4	3	3.46	51	32	6.20	5	4	1.85	
BERGEN	6	2	0.61	36	8	5.52	5	5	3.88	
BURLINGTON	6	2	0.00	115	56	6.08	4	3	4.89	
CAMDEN	5	0	0.00	17	0	0.00	7	7	5.34	
CAPE MAY	7	3	0.00	11	11	6.66	1	1	2.00	
CUMBERLAND	2	2	1.33	12	6	8.10	3	3	3.34	
ESSEX	11	4	0.51	22	2	8.20	11	8	5.76	
GLOUCESTER	5	4	1.95	6	5	4.97	2	2	6.35	
HUDSON	16	4	0.35	90	58	5.96	6	6	5.14	
HUNTERDON	4	3	0.78	8	8	4.60	1	1	4.29	
MERCER	10	1	0.00	27	17	5.04	5	5	6.60	
MIDDLESEX	20	6	0.93	35	22	5.13	6	6	5.62	
MONMOUTH	15	4	1.67	26	13	6.21	5	5	2.94	
MORRIS	4	0	0.00	5	0	0.00	4	4	2.72	
OCEAN	23	15	1.99	24	21	6.43	4	3	7.90	
PASSAIC	11	5	0.13	66	18	7.20	3	3	4.55	
SALEM	2	0	0.00	14	7	6.04	1	1	0.00	
SOMERSET	7	3	2.23	92	20	4.74	1	1	0.75	
SUSSEX	6	3	0.16	24	10	6.52	2	2	1.00	
UNION	4	0	0.00	195	6	4.24	5	5	1.99	
UNKNOWN	0	0	0.00	1	1	3.33	0	0	0.00	
WARREN	4	3	0.00	27	11	6.30	2	1	3.17	
NW Region	25	11	0.12	122	39	6.94	11	10	3.46	
NE Region	33	10	0.44	148	68	5.99	22	19	5.09	
CW Region	21	7	1.50	127	45	4.82	7	7	5.29	
CE Region	62	25	1.65	280	62	5.76	20	19 21	4.80	
South Region State Total	31 <b>172</b>	14 <b>67</b>	1.47 <b>1.09</b>	226 <b>903</b>	117 <b>331</b>	6.21 <b>5.95</b>	23 <b>83</b>	21 <b>76</b>	4.22 <b>4.60</b>	
State 10tal	1/2	07	1.09	903	331	3.95	83	/0	4.00	
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## NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 02/19/2013 to 02/19/2013



	RSV Tests		Flu	Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
February, 19, 2013 12:00 AM MI	MRW WEEK 8	3			
ATLANTIC	7	51	30	152	
BERGEN	4	15	60	383	
BURLINGTON	8	34	37	155	
CAMDEN	9	41	4	48	
CAPE MAY	1	8	6	28	
CUMBERLAND	0	32	0	0	
ESSEX	11	47	7	42	
GLOUCESTER	2	16	15	93	
HUDSON	13	60	5	59	
HUNTERDON	3	11	17	93	
MERCER	1	6	4	32	
MIDDLESEX	24	130	0	0	
MONMOUTH	13	84	15	163	
MORRIS	6	25	7	45	
OCEAN	0	2	5	47	
PASSAIC	0	0	0	0	
SALEM	0	1	0	0	
SOMERSET	0	0	0	0	
SUSSEX	1	6	2	36	
UNION	0	0	0	0	
WARREN	0	2	7	75	
NW Region	7	33	16	156	
NE Region	28	122	72	484	
CW Region	4 37	17 216	21 20	125 210	
CE Region South Region	27	183	92	476	
State Total	103	571	221	1451	