

Respiratory Virus Surveillance Report¹



New Jersey Department of Health Communicable Disease Service

Week ending January 12, 2013 (MMWR week 2)

SYNOPSIS

Influenza Activity Level ²						
State Activi	ty Week ending 01/12:	Sussen Pas				
	HIGH	Varion Morris (see)				
Current w	eek Last year: LOW	Hunter of Mid				
Re	egional ³ Data	Moreer mouth				
Northwest	HIGH	Burlington Ocean				
Northeast	HIGH	Calcul Cambon				
Central West	HIGH	Salem Atlantic				
Central East	HIGH	Cape May				
South	HIGH					

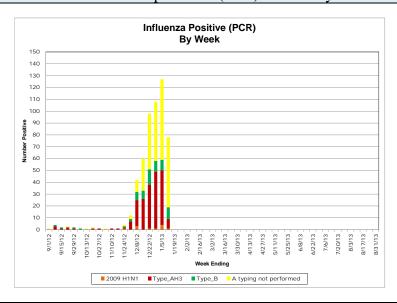
ILI Activity ⁴								
	P	Percent ILI/Absenteeism Baselines						
	Current week (range by county)							
Long Term Care Facilities	2.62 (0.00, 10.36)	1.76	0.49	0.59 (0.62, 0.85)				
Schools (absenteeism)	5.77 (3.45, 9.49)	10.31	5.20	3.85 (4.75, 4.85)				
Emergency Departments	8.17 (2.40, 14.89)	7.58	3.97	2.59 (3.43, 4.34)				

Viral Activity ⁷						
	Current Week	Past 3 Weeks	Cumulative Total			
Influenza H1N1 (2009)	1	6	11			
Influenza H3N2	8	102	206			
Influenza B	10	28	62			
Respiratory Syncytial Virus (RSV)	242	688	1577			
Rapid Influenza Tests	555	1244	1491			

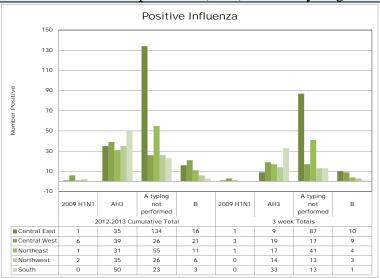
ILINet Providers						
Current W	eek	Previous W	⁷ eek			
#of reporters	%ILI	#of reporters	%ILI			
7	6.53	15	4.73			

Virologic Surveillance⁷

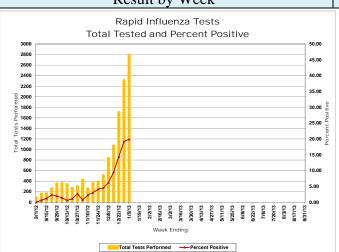
Influenza Positive Specimens (PCR) - Result by Week



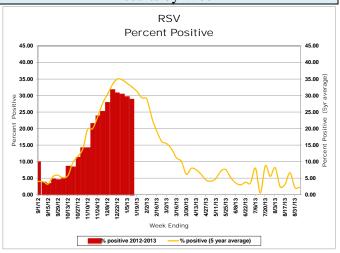
Influenza Positive Specimens (PCR)- Result by Region³



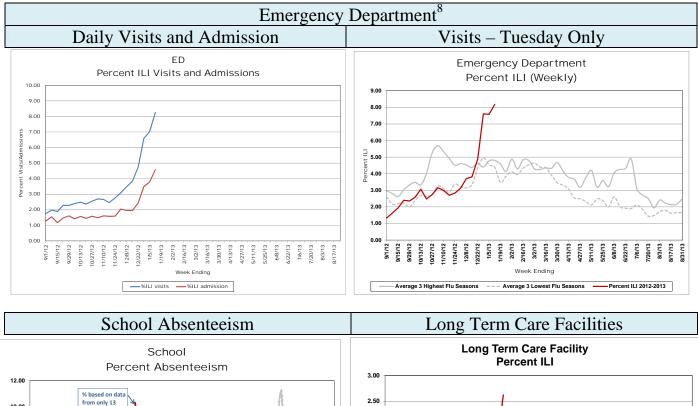
Influenza Rapid Antigen Result by Week

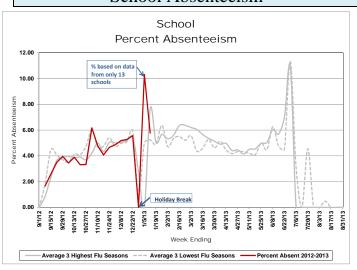


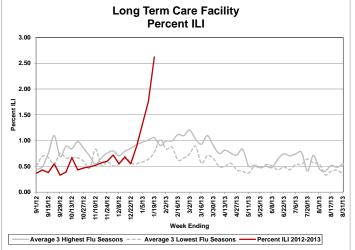
Respiratory Syncytial Virus (RSV) Results by Week



Influenza-like Illness Surveillance



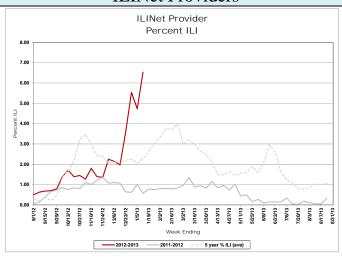




Respiratory Outbreaks in Long Term Care Facilities9

Cumulative outbreaks 2012-2013 season	45
No. outbreaks last 3 weeks	30
Regions with recent	NW(4), NE(4),
outbreaks	CW(6), CE(8),
	S(8)

ILINet Providers



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.

<u>Table 1</u> Influenza Activity Level – Definitions for State Activity								
NJ Level	CSTE Level	Definition						
		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	<u>Definition</u>						
NJ LEVEL	ILI Activity/Outbreaks		Lab Activity				
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.

Communicable Disease Reporting and Surveillance System

User Name: THOMAS, DEEPAM

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 01/08/2013 to 01/08/2013



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							SENIOR SERVICES		
	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% IL.I	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% IL1
January, 8, 2013 12:00 AM MMI	RW WEEK 2								
ATLANTIC	4	2	10.36	51	41	6.94	5	4	5.72
BERGEN	6	2	1.20	36	19	5.20	5	5	6.87
BURLINGTON	6	0	0.00	115	0	0.00	4	3	7.79
CAMDEN	5	0	0.00	17	0	0.00	7	6	9.12
CAPE MAY	7	4	0.00	11	10	6.85	1	1	2.70
CUMBERLAND	2	1	6.76	11	5	9.49	3	3	9.50
ESSEX	10	4	0.59	20	4	3.45	11	8	8.31
GLOUCESTER	5	4	0.99	6	5	4.34	2	2	6.25
HUDSON	16	6	3.50	88	58	5.95	6	5	9.71
HUNTERDON	4	4	3.02	8	8	4.32	1	1	8.33
MERCER	10	1	0.00	27	18	5.72	5	5	13.34
MIDDLESEX	20	6	0.90	35	17	4.82	6	6	8.42
MONMOUTH	14	5	1.25	26	17	6.46	5	5	6.56
MORRIS	4	0	0.00	5	0	0.00	4	4	4.71
OCEAN	23	18	3.57	22	21	6.76	4	3	14.89
PASSAIC	9	5	0.47	51	27	4.95	3	3	8.92
SALEM	2	0	0.00	10	4	8.09	1	1	2.82
SOMERSET	6	2	4.08	87	25	4.13	1	1	5.81
SUSSEX	5	0	0.00	24	0	0.00	2	2	2.40
UNION	3	0	0.00	195	26	4.96	5	5	2.96
UNKNOWN	0	0	0.00	1	1	6.67	0	0	0.00
WARREN	4	3	6.94	27	17	6.63	2	2	8.44
NW Region	22	8	1.91	107	44	5.38	11	11	6.74
NE Region	32	12	2.39	144	81	5.78	22	18	8.26
CW Region	20	7	3.31	122	51	4.70	7	7	11.56
CE Region South Region	60	29 11	2.51 3.54	278 221	81 65	5.82 6.95	20 23	19 20	8.23 7.59
State Total	165	67	2.62	872	322	5.77	83	75	8.17
State Islan	103	3 ,	2.02	012	322	3.77	0.5	13	0.17
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Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 01/08/2013 to 01/08/2013



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					SENIOR SERVICE
	RSV	Tests	Flu	Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
	RW WEEK 2				
ATLANTIC	30	92	39	265	
BERGEN	49	119	107	461	
BURLINGTON	14	32	59	233	
CAMDEN	22	71	12	106	
CAPE MAY	11	24	14	60	
CUMBERLAND	16	48	0	0	
ESSEX	7	32	45	296	
GLOUCESTER	8	25	21	100	
HUDSON	9	42	0	0	
HUNTERDON	3	13	46	149	
MERCER	5	19	13	55	
MIDDLESEX	20	116	0	0	
MONMOUTH	34	151	103	617	
MORRIS	0	0	0	0	
OCEAN	7	31	40	226	
PASSAIC	0	0	0	0	
SALEM	0	0	0	0	
SOMERSET	4	23	17	74	
SUSSEX	0	0	0	0	
UNION	0	0	0	0	
WARREN	3	16	39	147	
NW Region NE Region CW Region CE Region South Region	3 65 12 61 101	16 193 55 298 292	39 152 76 143 145	147 757 278 843 764	
State Total	242	854	555	2789	