

Respiratory Virus Surveillance Report¹



New Jersey Department of Health Communicable Disease Service

Week ending February 16, 2013 (MMWR week 7)

SYNOPSIS

Influenza Activity Level ²						
State Activity Week ending 02/16:						
	HIGH	Susson Pas				
Current week	Last year: MODERATE	Varian Morris				
Re	egional ³ Data	Hunter of don set Mid				
Northwest	MODERATE	Moreo Mon Mouth				
Northeast	HIGH	Bullington				
Central West	HIGH	Salom Atlantio				
Central East	HIGH	Cumbertand Cape Mag				
South	HIGH	•				

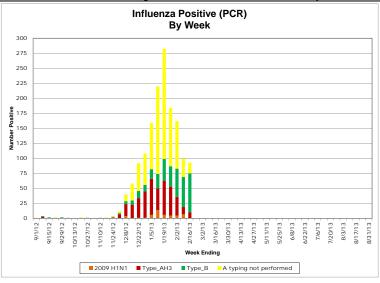
ILI Activity ⁴							
	P	Percent ILI/Absenteeism Ba					
	Current week (range by county)						
Long Term Care Facilities	0.85 (0.00, 3.00)	1.00	0.51	0.59 (0.62, 0.85)			
Schools (absenteeism)	5.13 (1.11,7.65)	5.56	5.74	3.85 (4.75, 4.85)			
Emergency Departments	4.82 (0.00, 7.67)	4.95	2.30	2.59 (3.43, 4.34)			

Viral Activity ⁷						
	Current Week	Past 3 Weeks	Cumulative Total			
Influenza H1N1 (2009)	0	12	50			
Influenza H3N2	10	53	392			
Influenza B	65	162	314			
Respiratory Syncytial Virus (RSV)	101	387	2628			
Rapid Influenza Tests	271	1144	4302			

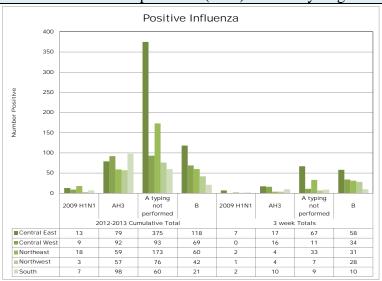
ILINet Providers						
Current W	'eek	Previous Week				
#of reporters	%ILI	#of reporters	%ILI			
9	4.73	16	4.77			

Virologic Surveillance⁷

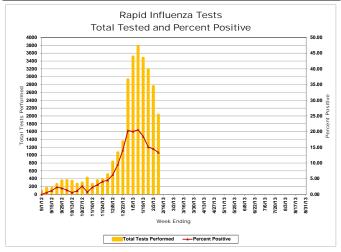
Influenza Positive Specimens (PCR) - Result by Week



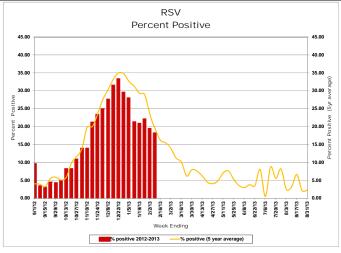
Influenza Positive Specimens (PCR)- Result by Region³



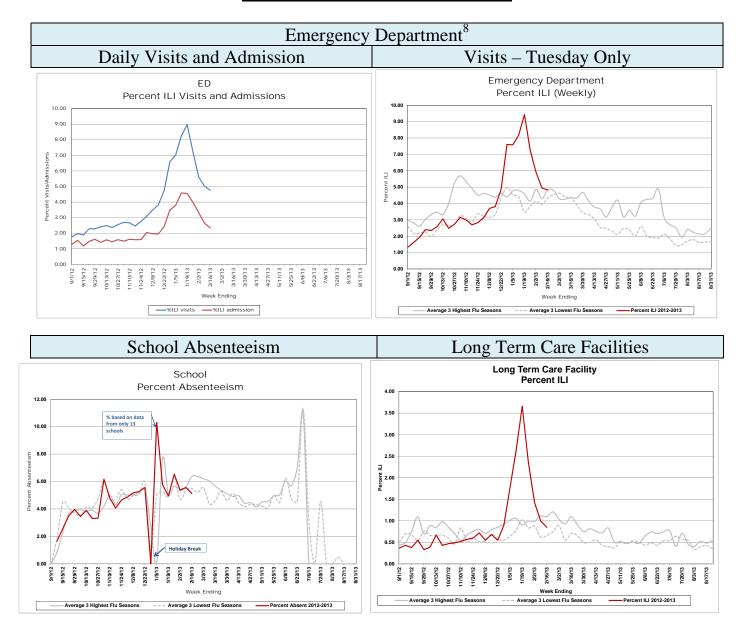
Influenza Rapid Antigen Result by Week



Respiratory Syncytial Virus (RSV) Results by Week



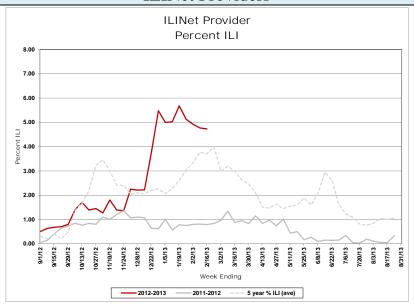
Influenza-like Illness Surveillance



Respiratory Outbreaks in Long Term Care Facilities⁹

Cumulative outbreaks 2012-2013 season	75
No. outbreaks last 3 weeks	3
Regions with recent outbreaks	NE(1), CE(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.

<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>						
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: 02/12/2013 to 02/12/2013



2/19/2013 9:56:09AM

	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
February, 12, 2013 12:00 AM MN	IRW WEEK 7								
ATLANTIC	4	2	1.11	51	40	6.23	5	4	2.16
BERGEN	6	2	0.30	36	13	4.15	5	5	3.17
BURLINGTON	6	2	0.00	115	61	5.32	4	3	4.44
CAMDEN	5	0	0.00	17	0	0.00	7	7	6.93
CAPE MAY	7	3	0.00	11	11	6.72	1	1	2.29
CUMBERLAND	2	2	0.88	12	7	7.65	3	3	5.74
ESSEX	11	3	0.00	22	5	4.38	11	8	5.51
GLOUCESTER	5	4	0.99	6	6	4.00	2	2	2.42
HUDSON	16	3	0.93	89	56	5.16	6	6	6.56
HUNTERDON	4	3	1.50	8	7	3.33	1	1	3.33
MERCER	10	1	0.00	27	22	4.76	5	5	7.24
MIDDLESEX	20	9	0.71	35	21	4.03	6	6	6.37
MONMOUTH	15	6	0.59	26	15	5.77	5	5	2.82
MORRIS	4	0	0.00	5	0	0.00	4	4	3.56
OCEAN	23	15	1.69	24	23	6.57	4	3	7.67
PASSAIC	11	6	0.38	66	50	4.64	3	3	4.54
SALEM	2	0	0.00	14	7	4.56	1	1	0.00
SOMERSET	7	2	3.00	92	30	3.84	1	1	4.73
SUSSEX	6	4	0.00	24	15	5.56	2	2	0.00
UNION	4	0	0.00	195	21	4.72	5	4	1.12
UNKNOWN	0	0	0.00	1	1	1.11	0	0	0.00
WARREN	4	3	0.00	27	17	5.96	2	2	1.46
NW Region	25	13	0.17	122	82	4.97	11	11	3.53
NE Region	33	8	0.52	147	74	5.04	22	19	5.15
CW Region	21	6	2.11	127	59	4.09	7	7	6.38
CE Region	62 31	30 13	1.18 0.68	280	80	5.34 5.78	20	18	4.72 4.71
South Region State Total	172	70	0.68	226 902	132 427	5.78	23 83	21 76	4.71 4.82
State I Utal	1/2	70	0.03	702	4 27	3.13	03	70	4.02
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Page 1 of 1

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 02/12/2013 to 02/12/2013



2/19/2013 9:59:38AM

					SENIOR SERVICES
	RSV	Tests	Flu	Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
February, 12, 2013 12:00 AM MM	IRW WEEK 7				
ATLANTIC	12	42	21	169	
BERGEN	5	15	59	383	
BURLINGTON	11	25	23	179	
CAMDEN	3	60	2	76	
CAPE MAY	3	13	7	45	
CUMBERLAND	5	37	0	0	
ESSEX	10	51	28	211	
GLOUCESTER	0	14	20	113	
HUDSON	3	26	22	67	
HUNTERDON	0	0	0	0	
MERCER	14	36	4	29	
MIDDLESEX	10	94	0	0	
MONMOUTH	18	81	35	313	
MORRIS	0	4	10	62	
OCEAN	0	16	14	129	
PASSAIC	0	0	0	0	
SALEM	0	5	0	0	
SOMERSET	0	0	0	0	
SUSSEX	1	5	3	36	
UNION	3	29	14	95	
WARREN	3	9	9	120	
NW Region	4	18	22	218	
NE Region	18	92	109	661	
CW Region	14	36	4	29	
CE Region South Region	31 34	220 196	63 73	537 582	
State Total	101	562	271	2027	
State Istai					
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