

New Jersey Department of Health and Senior Services Communicable Disease Service



Respiratory Virus Surveillance Report¹ Week ending April 7, 2012 (MMWR week 14)

SYNOPSIS

Influenza Activity Level ²					
State Activ	vity Week ending 4/7:	Sussex Pas			
	HIGH	Varien Maris ses v			
Current week	Last year: MODERATE	Hunter et al.			
Re	egional ³ Data	Mercer Brown			
Northwest	MODERATE	Glav Canden			
Northeast	MODERATE	Salem Atlantio			
Central West	MODERATE	Cumberland Cape			
Central East	LOW	Mag			
South	MODERATE				

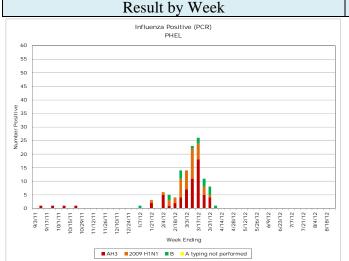
ILI Activity ⁴						
	P	eeism	Baselines			
	Current week (range by county)	Non-season ⁵ Season ⁶ (3 low, 3 high)				
Long Term Care Facilities	0.71 (0.00-2.70)	0.26	0.46	0.64 (0.66, 0.89)		
Schools (absenteeism)	4.67 (2.81-8.37)	4.44	4.73	4.32 (4.86, 5.21)		
Emergency Departments	2.64 (0.00-5.49)	2.22	3.51	2.68 (3.37, 3.89)		

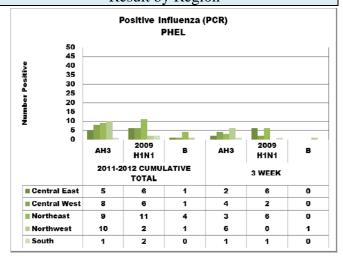
Viral Activity ⁷						
	Current Week	Past 3 Weeks	Cumulative Total			
Influenza H1N1 (2009)	0	7	51			
Influenza H3N2	0	10	65			
Influenza B	3	13	29			
Respiratory Synctial Virus (RSV)	23	96	2936			

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

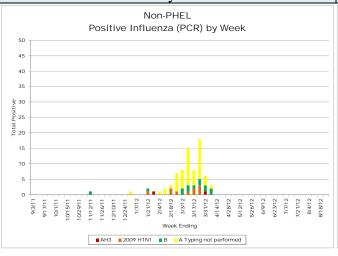
Virologic Surveillance⁷

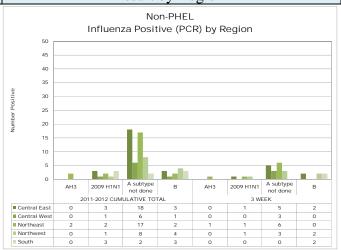
NJ Public Health and Environmental Laboratory (PHEL) Influenza Positive (PCR) Result by Week Result by Region³



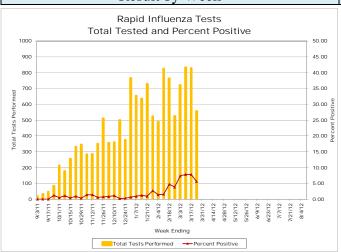


Influenza Positive (PCR) – Commercial/Acute Care Laboratories Result by Week Result by Region³

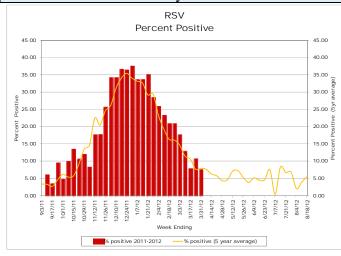




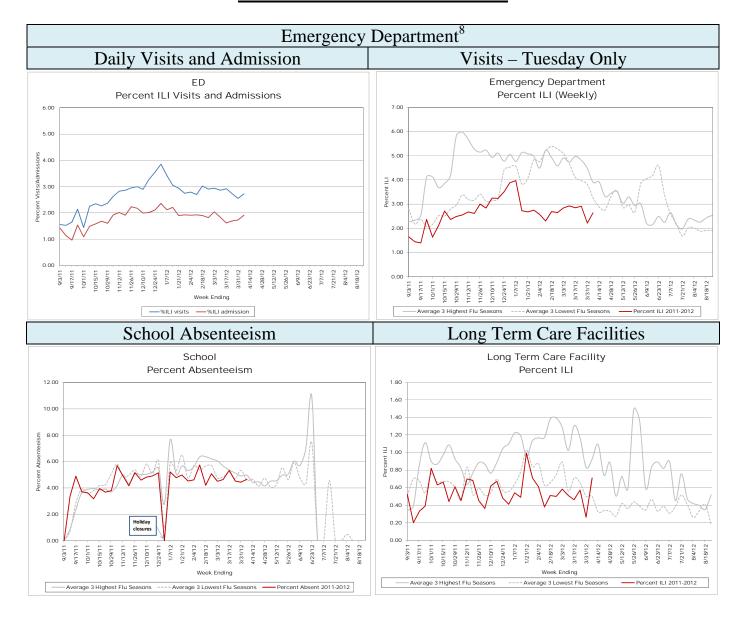
Influenza Rapid Antigen Result by Week



Respiratory Syncytial Virus (RSV) Results by Week



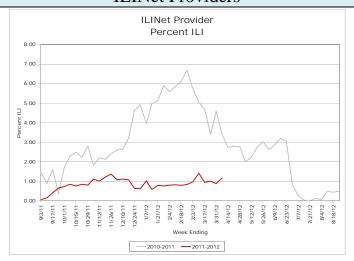
Influenza-like Illness Surveillance



Respiratory Outbreaks in Long Term Care Facilities⁹

Cumulative outbreaks 2011-2012 season	10
No. outbreaks last 3 weeks	0
Regions with recent outbreaks	Northeast

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://ni.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 6 year (2006, 2007, 2008, 2009, 2010, 2011) 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: 05-06, 06-07, 07-08; Low: 08-09, 09-10, 10-11), ED (High: 05-06, 06-07, 09-10; Low: 07-08, 08-09, 10-11) and schools (High: 06-07, 07-08, 08-09; Low: 05-06, 09-10, 10-11). 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 8, 2011. 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 NJDHSS 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	<u>Definition</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	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			

Table 2 Influenza Activity Level – Definitions for Public Health Regions						
NJ Level	Definition 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 will be used as the primary data source for the above levels. However, rapid influenza test data and commercial laboratory 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: 04/03/2012 to 04/03/2012





							SENIOR SERVICES			
	Long Term Care			Schools			Hospital Emergency Department			
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Rec'd	% Absent	# Enrolled	# Reports Rec'd	% IFI	
April, 3, 2012 12:00 AM	MMRW WEEK									
ATLANTIC	3	1	1.20	14	10	5.32	5	4	0.19	
BERGEN	6	4	0.00	34	20	4.67	5	4	2.36	
BURLINGTON	6	1	0.00	115	42	4.60	4	3	1.32	
CAMDEN	5	0	0.00	17	0	0.00	7	7	1.54	
CAPE MAY	7	1	0.00	11	10	4.37	1	1	1.96	
CUMBERLAND	2	2	0.44	11	3	8.37	3	3	3.91	
ESSEX	25	1	0.00	47	4	3.11	11	8	4.21	
GLOUCESTER	5	5	0.22	6	5	4.78	2	2	1.61	
HUDSON	16	2	2.05	86	61	5.15	6	6	2.68	
HUNTERDON	4	3	0.81	8	8	2.81	1	1	2.75	
MERCER	11	0	0.00	27	11	4.17	6	5	4.80	
MIDDLESEX	17	9	0.29	25	14	3.18	5	5	2.76	
MONMOUTH	14	3	0.00	26	16	5.97	5	5	2.46	
MORRIS	4	0	0.00	5	0	0.00	4	4	1.18	
OCEAN	12	0	0.00	56	20	5.29	4	3	5.49	
PASSAIC	9	1	0.68	48	16	4.05	3	2	0.80	
SALEM	2	0	0.00	5	0	0.00	1	1	0.00	
SOMERSET	5	1	1.68	87	11	2.92	2	1	3.31	
SUSSEX	5	4	2.70	23	21	4.98	2	2	0.00	
UNION	3	0	0.00	195	0	0.00	5	4	1.74	
UNKNOWN	0	0	0.00	1	1	4.44	0	0	0.00	
WARREN	4	2	1.02	27	16	4.38	2	2	4.90	
NW Region	22	7	2.14	103	53	4.54	11	10	1.35	
NE Region	47	7	0.33	167	85	5.02	22	18	3.33	
CW Region	20	4	1.02	122	30	3.30	9	7	4.26	
CE Region South Region	46 30	12 10	0.24 0.42	302 179	50 70	4.93 4.79	19 23	17 21	3.12 1.51	
State Total	165	40	0.42	873	288	4.79 4.67	84	73	2.64	
Suite Total	103	40	0.71	0/3	200	4.07			2.07	
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Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 04/03/2012 to 04/03/2012



					SENIOR SERVICES
	RSV	Tests	Flu Tests		
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
	IMRW WEE	K 14			
ATLANTIC	1	33	2	46	
BERGEN	3	13	12	142	
BURLINGTON	0	16	1	32	
CAMDEN	4	27	1	7	
CAPE MAY	1	4	0	3	
CUMBERLAND	3	20	0	0	
ESSEX	1	35	5	125	
GLOUCESTER	2	8	1	12	
HUDSON	1	14	0	0	
HUNTERDON	2	13	0	31	
MERCER	1	7	0	0	
MIDDLESEX	1	68	0	0	
MONMOUTH	2	37	2	73	
MORRIS	1	12	4	50	
OCEAN	0	0	0	0	
PASSAIC	0	0	0	0	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	9	3	34	
UNION	0	0	0	0	
WARREN	0	0	0	3	
NW Region NE Region CW Region CE Region South Region	1 5 3 3	21 62 20 105 108	7 17 0 2 5	87 267 31 73 100	
State Total	23	316	31	558	

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