

New Jersey Department of Health and Senior Services Communicable Disease Service



Respiratory Virus Surveillance Report¹ Week ending March 10, 2012 (MMWR week 10)

SYNOPSIS

	Influenza Activity Level ²					
State Activ	ity Week ending 10/8:	Susson Pas				
MO	ODERATE	Varien Monis				
Current week	Last year: MODERATE	Hunter or Avid				
Re	egional ³ Data	Monday mouth Cocan				
Northwest	MODERATE	Burlington				
Northeast	LOW	Salem Atlantic				
Central West	LOW	Cumberland				
Central East	MODERATE	Cape				
South	LOW	U				

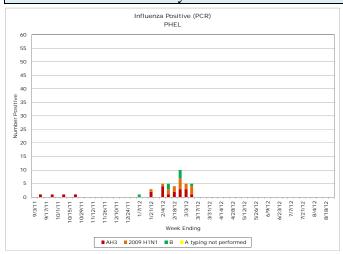
ILI Activity ⁴					
	P	ercent ILI/Absente	eeism	Baselines	
	Current week (range by county)	Last week Current year	Non-season ⁵ Season ⁶ (3 low, 3 high)		
Long Term Care Facilities	0.51 (0, 2.46)	0.58	0.62	0.64 (0.66, 0.89)	
Schools (absenteeism)	4.64 (1.11,5.98)	4.49	4.89	4.32 (4.86, 5.21)	
Emergency Departments	2.93 (0, 5.98)	2.84	3.47	2.68 (3.37, 3.89)	

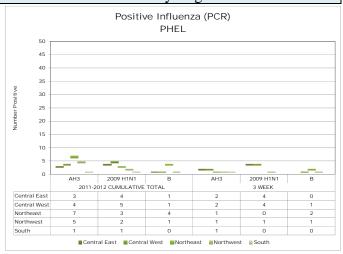
Viral Activity ⁷					
	Current Week	Past 3 Weeks	Cumulative Total		
Influenza H1N1 (2009)	3	10	19		
Influenza H3N2	1	7	21		
Influenza B	1	5	10		
Respiratory Synctial Virus (RSV)	193	250	2775		

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

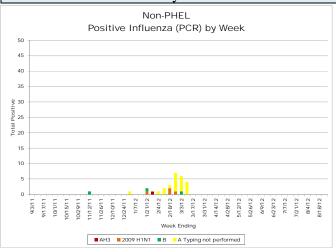
Virologic Surveillance⁷

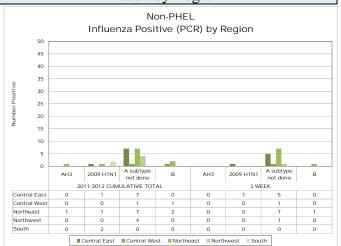
NJ Public Health and Environmental Laboratory (PHEL) Influenza Positive (PCR) Result by Week Result by Region³



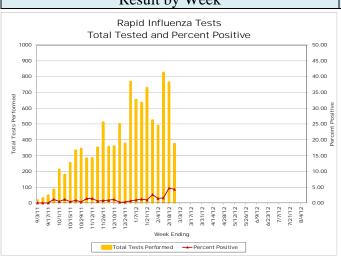


Influenza Positive (PCR) – Commercial/Acute Care Laboratories Result by Week Result by Region³

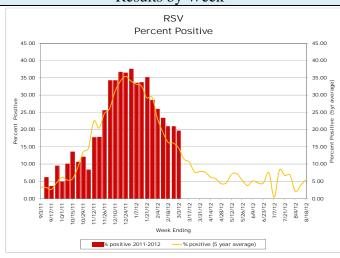




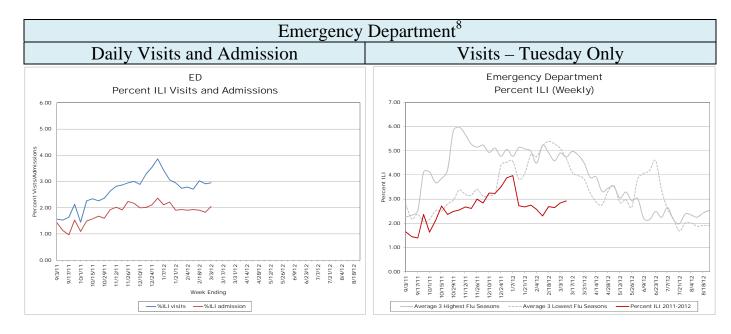
Influenza Rapid Antigen Result by Week

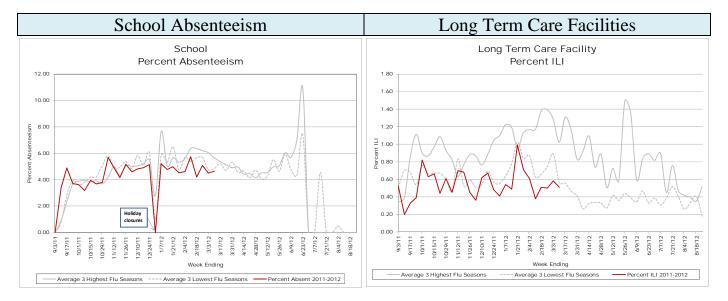


Respiratory Syncytial Virus (RSV) Results by Week



Influenza-like Illness Surveillance

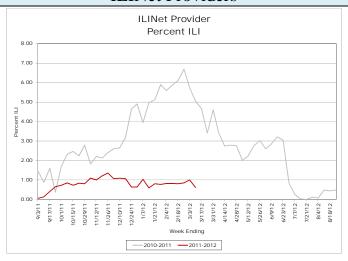




Respiratory Outbreaks in Long Term Care Facilities⁹

Cumulative outbreaks 2011-2012 season	10
No. outbreaks last 3 weeks	3
Regions with recent	Northwest, Central
outbreaks	East, South

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 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	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					
N.I.I. ovol					
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 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: 03/06/2012 to



NEW JERSEY
DEPARTMENT
HEALTH
SENIOR SERVICES

	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
March, 6, 2012 12:00 AM MMRV	W WEEK 10								
ATLANTIC	3	3	1.11	14	11	5.01	5	4	0.78
BERGEN	6	3	0.00	34	21	3.99	5	4	2.31
BURLINGTON	6	2	0.00	115	49	4.32	4	3	1.03
CAMDEN	5	0	0.00	17	0	0.00	7	7	2.83
CAPE MAY	7	3	1.29	11	10	4.49	1	1	5.98
CUMBERLAND	2	2	2.01	11	6	5.57	3	3	4.29
ESSEX	25	0	0.00	47	0	0.00	11	8	4.78
GLOUCESTER	5	4	0.00	6	6	5.64	2	2	1.25
HUDSON	16	5	0.57	86	65	5.68	6	6	3.32
HUNTERDON	4	4	0.47	8	8	3.40	1	1	0.00
MERCER	11	0	0.00	27	19	3.61	6	6	3.39
MIDDLESEX	17	8	0.09	25	14	3.43	5	5	4.48
MONMOUTH	14	0	0.00	26	0	0.00	5	5	2.84
MORRIS	4	0	0.00	5	0	0.00	4	4	2.08
OCEAN	12	3	0.26	56	19	5.84	4	3	5.23
PASSAIC	9	4	0.58	48	25	5.00	3	3	1.71
SALEM	2	1	0.00	5	2	5.98	1	1	0.00
SOMERSET	5	1	2.46	87	26	3.23	2	1	2.67
SUSSEX	5	4	0.14	23	22	5.08	2	2	1.00
UNION	3	0	0.00	195	0	0.00	5	5	0.65
UNKNOWN	0	0	0.00	1	1	1.11	0	0	0.00
WARREN	4	3	1.59	27	16	5.19	2	2	1.31
NW Region	22	11	0.55	103	63	5.06	11	11	1.75
NE Region	47	8	0.26	167	86	5.39	22	18	3.78
CW Region	20	5	0.91	122	53	3.39	9	8	2.94
CE Region South Region	46 30	11	0.13 0.90	302 179	33 84	4.68 4.61	19	18 21	3.37
State Total	165	15 50	0.90 0.51	873	319	4.61 4.64	23 84	76	2.15 2.93
State 10tal	105	30	0.51	6/3	319	4.04	04	70	2.93
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Page 1 of 1

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 03/06/2012



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Z ZN	EW JI	ERSEY
7 7 I	DEPART	
	HEA	LTH
SEI	NIOR S	ERVICES

					/ SEMION SERVI
	RSV Tests		/ Tests Flu Tests		
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
March, 6, 2012 12:00 AM MMR	W WEEK 10				
ATLANTIC	7	43	0	53	
BERGEN	3	17	11	173	
BURLINGTON	8	21	0	1	
CAMDEN	3	18	0	8	
CAPE MAY	1	5	0	1	
CUMBERLAND	4	28	0	0	
ESSEX	6	18	0	5	
GLOUCESTER	5	19	0	26	
HUDSON	3	16	0	0	
HUNTERDON	3	10	0	19	
MERCER	1	14	0	6	
MIDDLESEX	4	36	0	0	
MONMOUTH	0	0	0	0	
MORRIS	1	9	3	57	
OCEAN	0	0	0	0	
PASSAIC	0	0	0	0	
SALEM	0	1	0	0	
SOMERSET	0	0	0	0	
SUSSEX	3	9	0	10	
UNION	0	0	0	0	
WARREN	0	5	2	14	
NW Region	4	23	5	81	
NE Region	12	51	11	178	
CW Region	4	24	0	25	
CE Region South Region	4 28	36 135	0 0	0 89	
State Total	52	269	16	373	
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