

Respiratory Virus Surveillance Report¹



New Jersey Department of Health Communicable Disease Service

Week ending October 13, 2012 (MMWR week 41)

SYNOPSIS

	Influenza Activity Lev	el^2
State Activi	ty Week ending 10/13:	Susan / Au
	LOW	Manu and
Current w	eek Last year: LOW	Hunter of Mad Jacob Man
Regional ³ Data		derest mouth
Northwest	LOW	Buttington
Northeast	LOW	Consultation Consu
Central West	LOW	Salem
Central East	LOW	(Fig.)
South	LOW	7

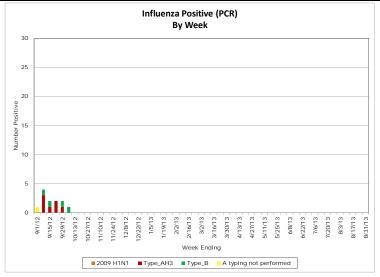
		ILI Activit	y^4	
	P	Baselines		
	Current week (range by county)	Last week Current year	Current week Last year	Non-season ⁵ Season ⁶ (3 low, 3 high)
Long Term Care Facilities	0.67 (0.00, 4.82)	0.39	0.66	0.59 (0.62, 0.85)
Schools (absenteeism)	3.89 (1.11, 6.21)	3.45	3.96	3.85 (4.75, 4.85)
Emergency Departments	3.06 (1.27, 5.30)	2.58	2.71	2.59 (3.43, 4.34)

Viral Activity ⁷					
	Current Week	Past 3 Weeks	Cumulative Total		
Influenza H1N1 (2009)	0	0	0		
Influenza H3N2	0	3	7		
Influenza B	1	2	4		
Respiratory Synctial Virus (RSV)	10	26	40		
Rapid Influenza Tests	6	18	21		

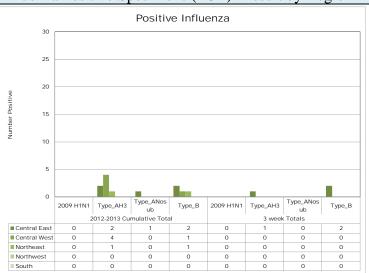
ILINet Providers					
Current W	eek	Previous W	'eek		
#of reporters	%ILI	#of reporters	%ILI		
7	1.27	13	0.77		

Virologic Surveillance⁷

Influenza Positive Specimens (PCR) - Result by Week



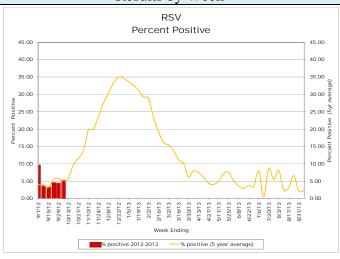
Influenza Positive Specimens (PCR)- Result by Region³



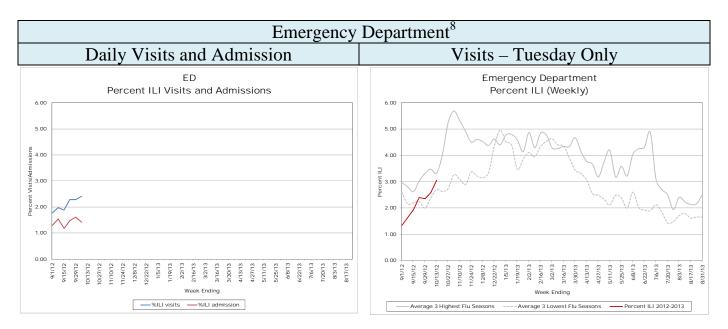
Influenza Rapid Antigen Result by Week

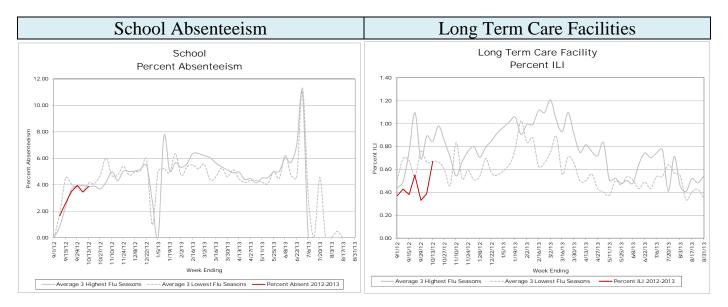
Rapid Influenza Tests Total Tested and Percent Positive 1000 50.00 900 800 40.00 600 30.00 .2 500 20.00 400 200 10.00 100 Total Tests Performed → Percent Positive

Respiratory Syncytial Virus (RSV) Results by Week



Influenza-like Illness Surveillance

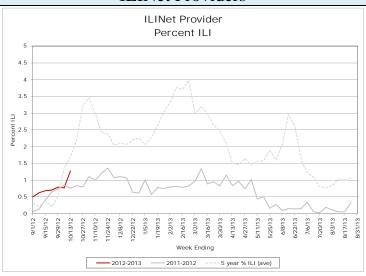




Respiratory Outbreaks in Long Term Care Facilities⁹

Cumulative outbreaks 2012-2013 season	3
No. outbreaks last 3 weeks	2
Regions with recent outbreaks	Central East

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.

	I	<u>Table 1</u> nfluenza Activity Level – Definitions for	State Ac	etivity
NJ Level	CSTE Level		inition	•
		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

	Table 2 Influenza Activity Level – Definitions		lic Health Regions
NJ Level	ILI Activity/Outbreaks	<u>inition</u>	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

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 10/09/2012 to



SENIOR SERVICES **Long Term Care** Schools Hospital **Emergency** Department Enrolled # Enrolled # Reports Rec'd Enrolled # Reports Rec'd Absent # Reports County Ε Rec'd I # % % % # MMRW WEEK 41 October, 9, 2012 12:00 AM 5 ATLANTIC 2 0.00 14 10 6.21 4 0.57 3.38 5 5 3.34 2 **BERGEN** 6 0.00 36 17 3.63 4 3 2.40 2 BURLINGTON 6 0.00 115 61 0.00 **CAMDEN** 5 0 0.00 17 0 3.69 5.39 5.13 CAPE MAY 7 3 0.00 11 8 7 5.24 3 3 2.74 2 4.82 11 **CUMBERLAND ESSEX** 2.31 11 8 2.90 25 4 0.00 47 5 2 2 5 3.31 3.35 **GLOUCESTER** 4 0.25 6 6 4.57 6 4.34 HUDSON 16 6 1.10 88 23 6 8 8 2.55 1.27 HUNTERDON 4 4 0.47 **MERCER** 10 2 1.69 27 18 3.17 5 5 4.88 6 19 7 0.11 26 2 2.23 6 3.37 **MIDDLESEX** 5 MONMOUTH 14 3 3.32 26 20 4.84 5 2.31 0 0.00 4 4 2.86 **MORRIS** 4 0 0.00 5 4.77 4 3 5.30 **OCEAN** 12 0 0.00 56 14 2.82 3 3 9 3 3.34 **PASSAIC** 0.78 48 18 **SALEM** 4.68 1 1.72 2 0 0.00 8 3 2.21 2 **SOMERSET** 1 0.92 87 10 0.64 6 SUSSEX 3.50 2 2 0.00 5 4 0.00 23 16 5 5 3 2.98 1.67 UNION 0 0.00 195 12 UNKNOWN 1.11 0 0 0.00 0 0 0.00 1 2 2 1.07 27 15 4.53 0.64 WARREN 4 9 22 103 49 11 **NW Region** 0.46 3.49 11 2.58 22 **NE Region** 47 12 0.62 171 45 4.03 19 3.37 **CW Region** 20 7 0.76 122 36 2.81 8 7 3.61 **CE Region** 48 10 0.88 303 48 4.44 20 19 3.12 **South Region** 31 12 0.73 182 95 4.22 23 21 2.74 **State Total** 168 50 0.67 881 273 3.89 84 77 3.06

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NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 10/09/2012





	RSV Tests		Flu	Tests	
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
October, 9, 2012 12:00 AM MM	RW WEEK 41				
ATLANTIC	0	17	0	18	
BERGEN	0	12	0	19	
BURLINGTON	0	11	1	18	
CAMDEN	0	0	0	0	
CAPE MAY	0	1	0	7	
CUMBERLAND	0	14	0	0	
ESSEX	2	34	0	75	
GLOUCESTER	0	9	2	20	
HUDSON	0	11	0	0	
HUNTERDON	2	11	1	34	
MERCER	0	0	0	0	
MIDDLESEX	5	55	0	0	
MONMOUTH	1	19	1	47	
MORRIS	0	2	1	9	
OCEAN	0	0	0	0	
PASSAIC	0	0	0	0	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	2	0	9	
UNION	0	0	0	0	
WARREN	0	3	0	13	
NW Region	0	7	1	31	
NE Region	2	57	0	94	
CW Region	2	11	1	34	
CE Region South Region	6 0	74 52	1 3	47 63	
State Total	10	201	6	269	