

Respiratory Virus Surveillance Report¹



New Jersey Department of Health Communicable Disease Service

Week ending November 16, 2013 (MMWR week 46)

SYNOPSIS

Influenza Activity Level ²				
State Activi	ty Week ending 11/16:			
	LOW	Buses Comments		
Current w	veek Last year: LOW	Surry Morey and		
Re	egional ³ Data	thans to the state of the state		
Northwest	LOW	March mouth		
Northeast	LOW	Burlington		
Central West	LOW	Grand Arterio		
Central East LOW		Comment and Comment		
South	LOW	•		

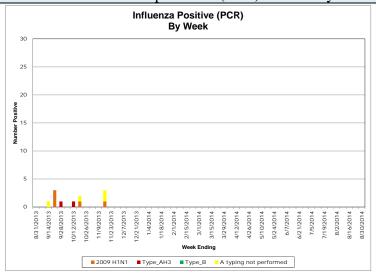
ILI Activity ⁴					
	Percent ILI/Absenteeism			Baselines	
	Current week (range by county)Last week Current yearCurrent week Last yearNon-season5 Season6 (3 low, 3 high				
Long Term Care Facilities	0.31 (0.00, 0.65)	0.54	0.57	0.59 (0.62, 0.87)	
Schools (absenteeism)	4.38 (2.53, 5.74)	4.29	4.07	3.79 (4.70, 4.90)	
Emergency Departments	3.37 (0.00, 6.84)	3.15	2.70	2.49 (3.28, 4.31)	

Viral Activity ⁷				
	Current Week	Past 3 Weeks	Cumulative Total	
Influenza H1N1 (2009)	1	1	2	
Influenza H3N2	0	0	1	
Influenza B	0	0	0	
Respiratory Syncytial Virus (RSV)	56	104	125	
Rapid Influenza Tests	4	4	8	

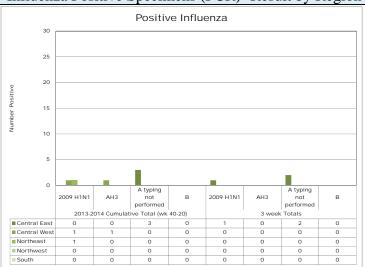
ILINet Providers				
Current W	eek	Previous Week		
#of reporters	%ILI	#of reporters	%ILI	
9	0.70	24	1.63	

Virologic Surveillance⁷

Influenza Positive Specimens (PCR) - Result by Week

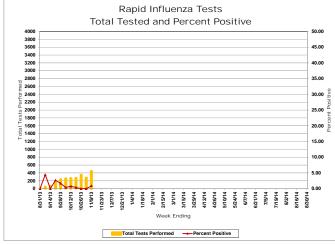


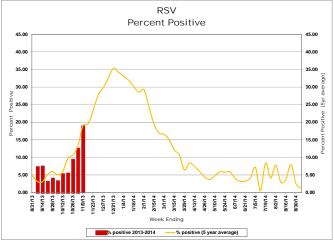
Influenza Positive Specimens (PCR)- Result by Region³



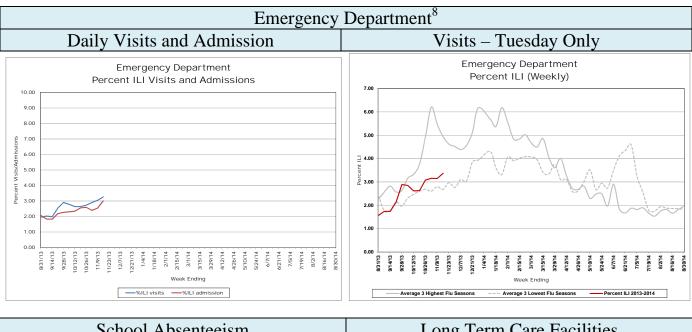
Influenza Rapid Antigen Result by Week

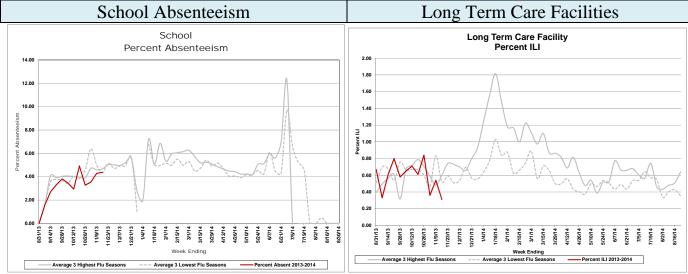
Respiratory Syncytial Virus (RSV) Results by Week RSV Percent Positive





Influenza-like Illness Surveillance

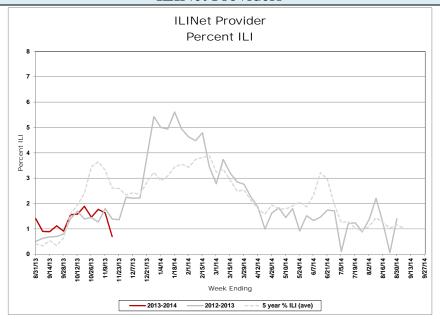




Respiratory Outbreaks in Long Term Care Facilities⁹

Cumulative outbreaks 2012-2013 season	0	
No. outbreaks last 3 weeks	0	
Regions with recent	n/o	
outbreaks	n/a	





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 or regarding illness severity (i.e., hospitalization) 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 an 8 year (2006, 2007, 2008, 2009, 2010, 2011, 2012, and 2013) 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: 07-08, 08-09, 12-13; Low: 09-10, 10-11,11-12), ED (High: 07-08, 09-10,12-13; Low: 08-09, 10-11, 11-12) and schools (High: 07-08, 08-09,10-11; Low: 09-10, 11-12,12-13). 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 5, 2013. 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 admissions 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 receive 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	Definition Lab Activity 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 admissions 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: 11/12/2013 to 11/12/2013



HEÅLTH

SENIOR SERVICES **Long Term Care Schools** Hospital **Emergency** Department Enrolled Enrolled # Enrolled # Reports Rec'd # Reports Rec'd Absent # Reports County Ε Rec'd I # % % % # November, 12, 2013 12:00 AM MMRW WEEK 46 ATLANTIC 3 0.64 66 36 5.38 4 4 0.72 2.90 5 5 5.43 3 **BERGEN** 6 0.00 123 67 0.00 3 3 6.35 0 BURLINGTON 6 0.00 115 0 **CAMDEN** 5 0 0.00 17 0 0.00 4.37 5.39 0.00 CAPE MAY 7 3 0.00 11 8 5.74 3 3 2.74 2 0.00 24 16 **CUMBERLAND ESSEX** 0.00 7 2.89 12 0 0.00 26 0 2 5.33 2 2.60 **GLOUCESTER** 4 3 0.00 6 6 5.31 6 3.70 HUDSON 16 3 0.52 90 63 6 7 2.53 0.00 HUNTERDON 4 4 0.23 8 **MERCER** 10 0 0.00 28 18 3.74 5 5 6.84 5 20 0 0.00 35 0 0.00 6 3.57 **MIDDLESEX** 5 MONMOUTH 15 5 0.90 26 15 5.17 5 3.26 0.00 4 4 2.07 **MORRIS** 4 0 0.00 5 0 0.00 4 4 1.82 **OCEAN** 23 0 0.00 24 0 3 3 3.31 14 3 4.18 **PASSAIC** 0.00 68 6 **SALEM** 4.23 0 0.00 1 0 0.00 10 2 2.73 **SOMERSET** 7 2 0.65 92 20 0 0.00 SUSSEX 3.65 2 2 0.00 6 2 0.37 24 5 5 5 3.90 1.21 UNION 4 0 0.00 197 4.37 2 2 WARREN 0.00 27 13 1.64 4 1 0.21 24 11 **NW Region** 28 6 124 4.14 11 2.44 19 34 0.16 239 130 4.39 18 3.94 **NE Region** 6 **CW Region** 21 6 0.41 128 45 3.06 6 5.97 **CE Region** 62 5 0.90 282 16 5.02 20 19 2.54 **South Region** 32 10 0.24 249 68 5.42 21 20 3.46 **State Total** 177 33 0.31 1022 283 4.38 78 74 3.37

User Name: THOMAS, DEEPAM Page 1 of 1

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 11/12/2013 to 11/12/2013



11/19/2013 2:00:35PM

11	\\/	11/2
Z ZN	EW JI	ÉRSEY
39	DEPAR1	IMENT
	HEA	LTH
V SE	NIOR S	ERVICES

					# SENIOR SERVICES
	RSV Tests		Flu Tests		
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
		16	#		
November, 12, 2013 12:00 AM M ATLANTIC	MRW WEEK	46 22	0	42	
BERGEN	15	32	1	86	
BURLINGTON		14			
	1	10	1	45 24	
CAMDEN CAPE MAY	0		0		
	0	2	0	4	
CUMBERLAND	4	28	0	0	
ESSEX	0	0	0	0	
GLOUCESTER	0	8	0	28	
HUDSON	16	71	0	33	
HUNTERDON	0	3	1	26	
MERCER	0	0	0	0	
MIDDLESEX	12	41	0	0	
MONMOUTH	7	60	1	112	
MORRIS	0	0	0	11	
OCEAN	0	0	0	0	
PASSAIC	0	0	0	0	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	5	0	10	
UNION	0	0	0	0	
WARREN	0	3	0	23	
NW Region	0	8	0	44	
NE Region	31	103	1	119	
CW Region	0	3	1	26	
CE Region	19	101	1	112	
South Region State Total	6 56	84 299	1 4	143 444	
State 10tal	30	499	4	777	
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