

New Jersey Department of Health and Senior Services Communicable Disease Service



Respiratory Virus Surveillance Report Week ending December 3, 2011 (MMWR week 48)

SYNOPSIS

	Week ending 12/3: LOW ek Last year: LOW	Flore Home Home Home
Reg	ional ³ Data	Marcel mouth
Northwest	LOW	
Northeast	LOW	Salem
Central West	LOW	Cumberland Copy
Central East	LOW	7
South	LOW	

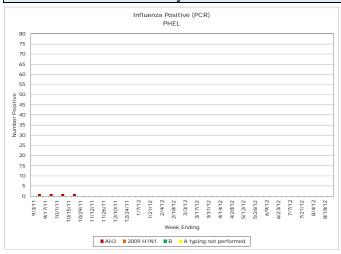
		ILI Activi	ty	
	P	ercent ILI/Absente	eeism	Baselines
	Current week (range by county)	Last week Current year	Current week Last year	Non-season ⁴ Season ⁵ (3 low, 3 high)
Long Term Care Facilities	0.36 (0.00-2.31)	0.45	0.41	0.64 (0.66, 0.89)
Schools (absenteeism)	4.59 (3.03-6.51)	5.16	4.92	4.32 (4.86, 5.21)
Emergency Departments	2.84 (0.00-5.79)	3.00	2.94	2.68 (3.37, 3.89)

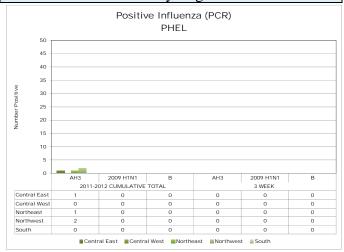
Viral A	ctivity ⁶		
	Current Week	Past 3 Weeks	Cumulative Total
Influenza H1N1 (2009)	0	0	0
Influenza H3N2	0	0	4
Influenza B	0	0	0
Respiratory Synctial Virus (RSV)	109	214	298

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

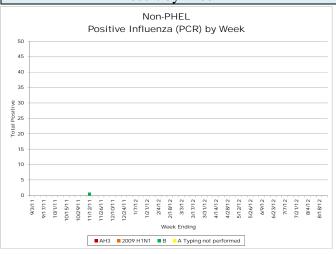
Virologic Surveillance⁶

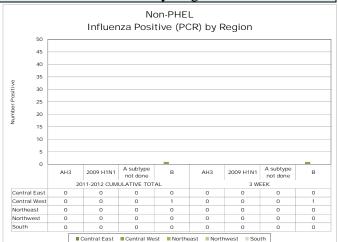
NJ Public Health and Environmental Laboratory (PHEL) Influenza Positive (PCR) Result by Week Result by Region³



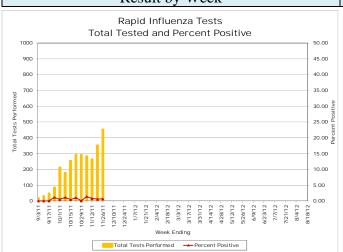


Influenza Positive (PCR) – Commercial/Acute Care Laboratories Result by Week Result by Region³

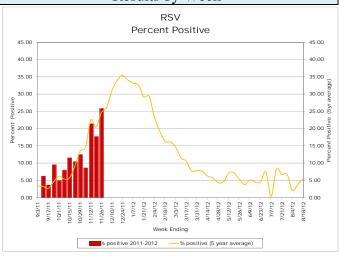




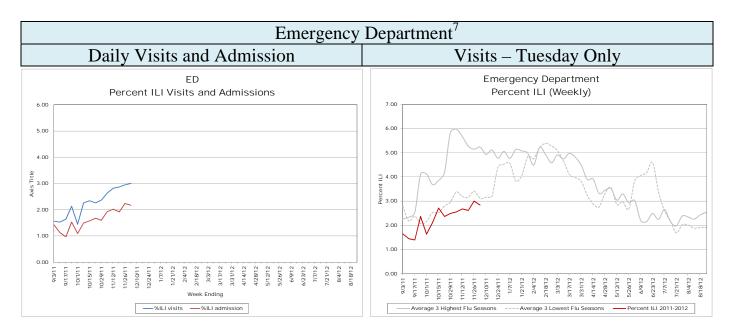
Influenza Rapid Antigen Result by Week

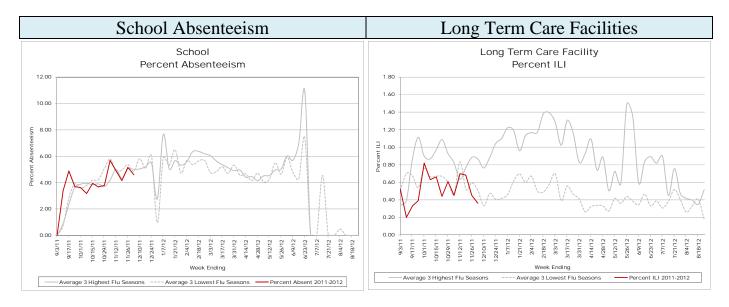


Respiratory Syncytial Virus (RSV) Results by Week



Influenza-like Illness Surveillance

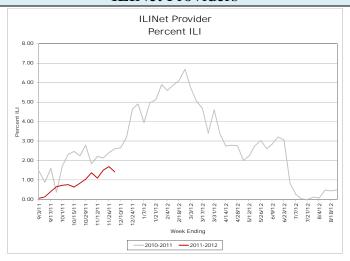




Respiratory Outbreaks in Long Term Care Facilities⁸

Cumulative outbreaks 2011-2012 season	2
No. outbreaks last 3 weeks	1
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. 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.
- 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. 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).
- 5. 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.
- 6. 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.
- 7. 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.
- 8. Only LTCF outbreaks reported to NJDHSS 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 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: 11/29/2011 to 11/29/2011





		Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI	
November, 29, 2011 12:00 AM	MMRW WI	EK 48								
ATLANTIC	3	3	0.44	13	13	4.57	5	4	0.39	
BERGEN	6	5	0.00	37	22	3.72	5	4	3.55	
BURLINGTON	6	0	0.00	115	33	4.90	3	3	0.92	
CAMDEN	5	0	0.00	17	0	0.00	7	4	5.79	
CAPE MAY	7	4	0.00	11	9	5.13	1	1	3.45	
CUMBERLAND	2	2	0.67	11	6	6.45	3	3	3.32	
ESSEX	25	4	0.67	47	6	3.98	11	7	2.89	
GLOUCESTER	5	3	0.00	6	6	4.52	2	2	2.16	
HUDSON	16	7	1.11	86	73	5.27	6	4	3.16	
HUNTERDON	4	4	0.92	8	8	3.03	1	1	0.93	
MERCER	11	1	0.00	26	14	3.12	6	2	0.76	
MIDDLESEX	12	10	0.13	26	0	0.00	5	5	4.37	
MONMOUTH	15	6	0.00	26	18	6.51	5	5	3.21	
MORRIS	4	0	0.00	5	0	0.00	4	2	0.59	
OCEAN	12	2	0.00	54	25	5.54	4	4	5.19	
PASSAIC	9	3	0.76	31	14	4.58	3	2	0.98	
SALEM	2	1	0.00	5	4	4.10	1	1	0.00	
SOMERSET	6	1	2.31	87	29	3.05	2	1	2.00	
SUSSEX	5	4	0.00	23	22	4.80	2	2	4.21	
UNION	4	0	0.00	195	28	3.69	5	4	1.26	
WARREN	4	3	0.00	25	20	3.50	2	2	1.18	
NW Region	22	10	0.31	84	56	4.41	11	8	1.17	
NE Region	47	16	0.49	170	101	4.97	22	15	3.15	
CW Region	21	6	0.96	121	51	3.07	9	4	1.15	
CE Region	43	18	0.08	301	71	5.20	19	18	3.73	
South Region State Total	30 163	13 63	0.30	178 854	71 350	4.89 4.59	22 83	18 63	2.59 2.84	
State 10tal	103	0.5	0.36	054	350	4.59	83	0.5	2.04	
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Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 11/29/2011 to 11/29/2011





	RSV	Tests	Flu Tests		
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
November, 29, 2011 12:00 AM	MMRW V	VEEK 48			
ATLANTIC	1	10	0	12	
BERGEN	3	13	0	25	
BURLINGTON	0	12	0	24	
CAMDEN	6	25	0	16	
CAPE MAY	0	2	0	2	
CUMBERLAND	7	39	0	0	
ESSEX	32	86	1	129	
GLOUCESTER	2	15	0	17	
HUDSON	11	31	0	0	
HUNTERDON	3	9	0	30	
MERCER	4	20	0	3	
MIDDLESEX	17	44	0	0	
MONMOUTH	12	51	2	102	
MORRIS	6	31	0	39	
OCEAN	0	0	0	0	
PASSAIC	0	0	0	0	
SALEM	0	0	0	0	
SOMERSET	0	0	0	0	
SUSSEX	0	4	0	12	
UNION	4	32	0	29	
WARREN	1	5	0	13	
NW Region	7	40	0	64	
NE Region	46	130	1	154	
CW Region CE Region	7 33	29 127	0 2	33 131	
South Region	16	103	0	71	
State Total	109	429	3	453	