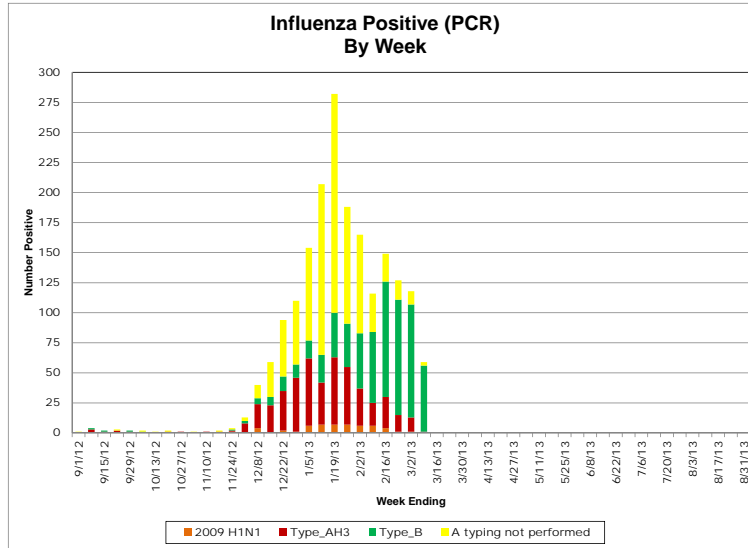


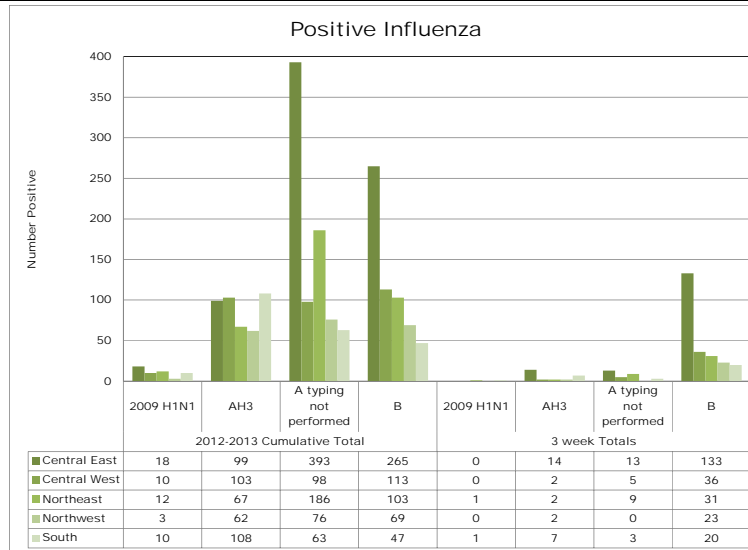
Report also available at: <http://nj.gov/health/flu/fluinfo.shtml>

Virologic Surveillance⁷

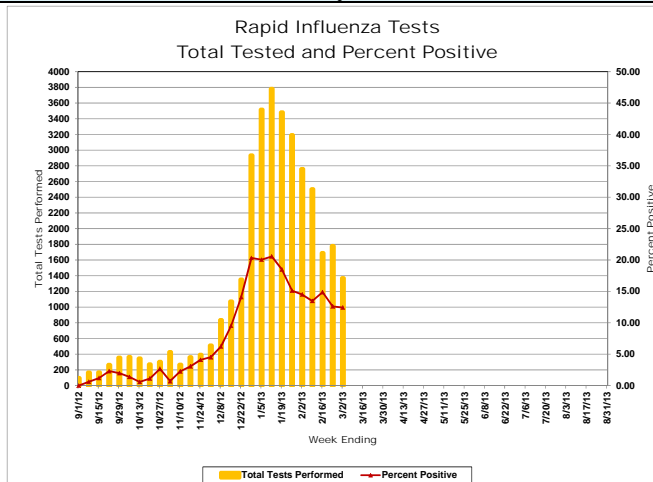
Influenza Positive Specimens (PCR) - Result by Week



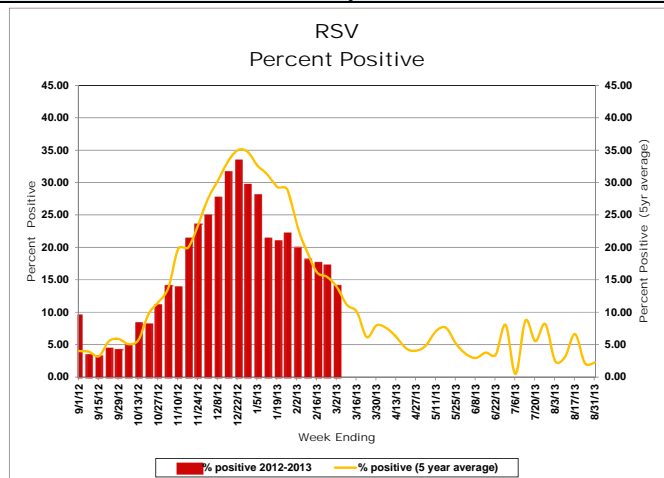
Influenza Positive Specimens (PCR)- Result by Region³



Influenza Rapid Antigen Result by Week



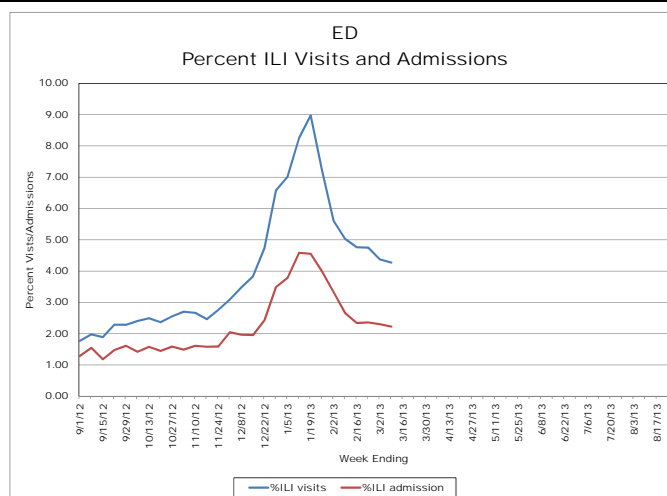
Respiratory Syncytial Virus (RSV) Results by Week



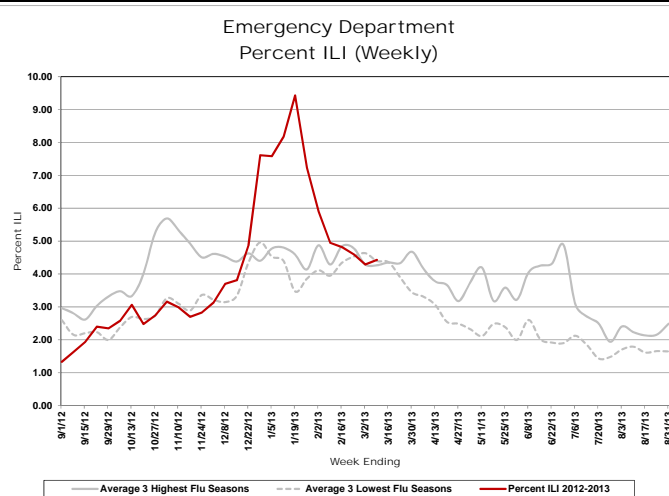
Influenza-like Illness Surveillance

Emergency Department⁸

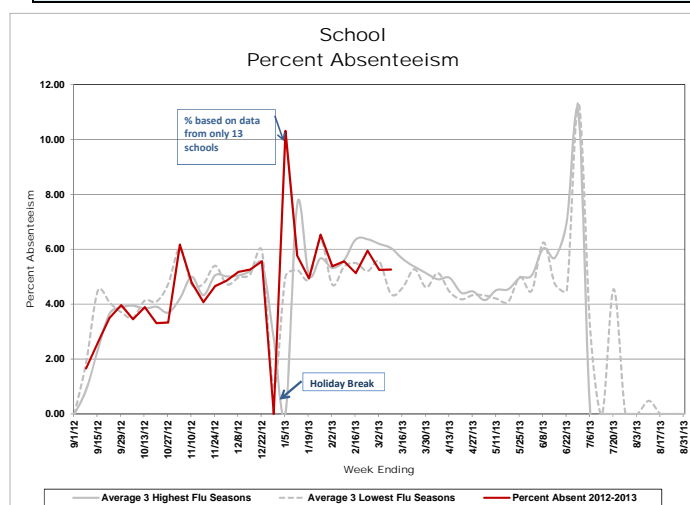
Daily Visits and Admission



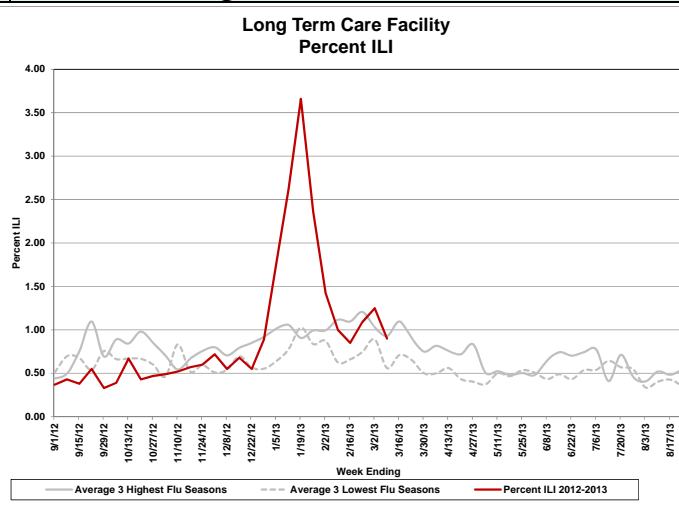
Visits – Tuesday Only



School Absenteeism



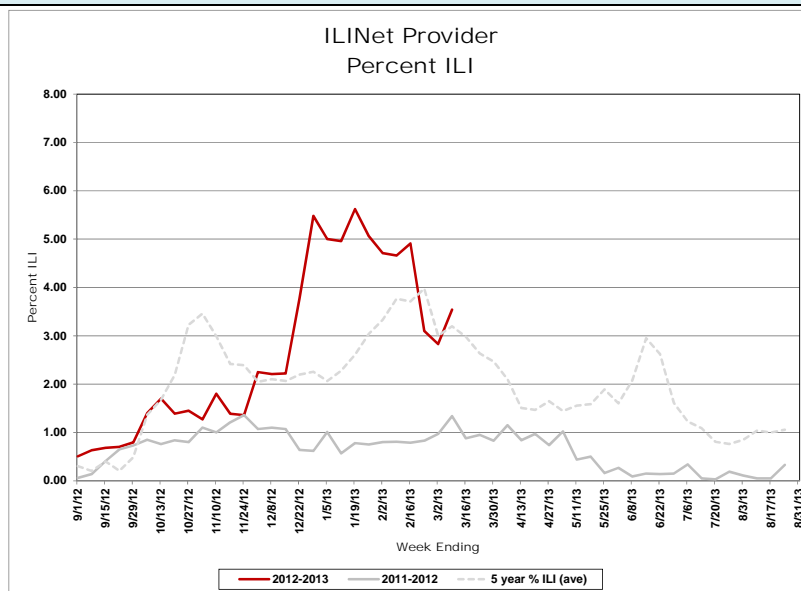
Long Term Care Facilities



Respiratory Outbreaks in Long Term Care Facilities⁹

Cumulative outbreaks 2012-2013 season	79
No. outbreaks last 3 weeks	3
Regions with recent outbreaks	S(3)

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 ($> 100^{\circ}\text{F}$ [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.

Table 1 Influenza Activity Level – Definitions for State Activity				
<u>NJ Level</u>	<u>CSTE Level</u>	<u>Definition</u>		
		<u>ILI Activity/Outbreaks</u>		<u>Lab Activity</u>
Low	No Activity	ILI activity at or below baseline AND no detected outbreaks	AND	No lab confirmed cases
	Sporadic	Low ILI activity detected OR one lab confirmed outbreaks anywhere in the state	AND	Sporadic isolation of laboratory confirmed influenza
Moderate	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
	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			
<u>NJ Level</u>	<u>Definition</u>		
	<u>ILI Activity/Outbreaks</u>		<u>Lab Activity</u>
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.

	Long Term Care			Schools			Hospital Emergency Department		
County	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
March, 5, 2013 12:00 AM MMRW WEEK 10									
ATLANTIC	4	2	1.08	51	33	8.42	5	4	1.36
BERGEN	6	2	0.00	36	14	4.17	5	5	3.21
BURLINGTON	6	2	0.00	115	56	4.68	4	3	4.31
CAMDEN	5	0	0.00	17	0	0.00	7	7	4.74
CAPE MAY	7	1	0.00	11	9	5.66	1	1	7.48
CUMBERLAND	2	2	1.56	12	6	6.61	3	3	7.32
ESSEX	11	2	0.00	22	7	3.00	11	8	6.45
GLOUCESTER	5	4	1.73	6	6	6.35	2	2	4.03
HUDSON	16	3	0.50	90	42	5.98	6	6	5.50
HUNTERDON	4	4	0.23	8	8	4.47	1	1	2.67
MERCER	10	2	1.65	27	20	5.29	5	5	5.77
MIDDLESEX	20	7	0.36	35	23	3.86	6	6	5.97
MONMOUTH	15	5	1.75	26	18	4.77	5	5	2.32
MORRIS	4	0	0.00	5	0	0.00	4	4	1.96
OCEAN	23	17	1.44	24	21	6.54	4	3	5.23
PASSAIC	11	5	0.23	66	41	4.33	3	3	4.58
SALEM	2	0	0.00	14	8	6.27	1	1	1.64
SOMERSET	7	1	0.97	92	27	3.31	1	1	4.11
SUSSEX	6	3	1.03	24	15	6.25	2	2	0.00
UNION	4	0	0.00	195	0	0.00	5	5	2.23
UNKNOWN	0	0	0.00	1	1	3.33	0	0	0.00
WARREN	4	3	0.83	27	15	6.24	2	2	2.33
NW Region	25	11	0.74	122	71	4.96	11	11	3.04
NE Region	33	7	0.22	148	63	5.44	22	19	5.29
CW Region	21	7	0.62	127	55	4.14	7	7	5.15
CE Region	62	29	1.16	280	62	5.06	20	19	4.10
South Region	31	11	1.15	226	118	6.16	23	21	4.27
State Total	172	65	0.90	903	369	5.26	83	77	4.43

	RSV Tests		Flu Tests		
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
March, 5, 2013 12:00 AM MMRW WEEK 10					
ATLANTIC	6	57	23	165	
BERGEN	17	81	20	148	
BURLINGTON	6	16	12	94	
CAMDEN	7	49	4	50	
CAPE MAY	0	10	3	44	
CUMBERLAND	3	33	0	0	
ESSEX	4	21	16	132	
GLOUCESTER	1	15	9	53	
HUDSON	7	63	11	63	
HUNTERDON	3	12	12	71	
MERCER	2	11	4	26	
MIDDLESEX	4	73	0	0	
MONMOUTH	8	48	33	289	
MORRIS	1	9	5	53	
OCEAN	1	12	11	86	
PASSAIC	0	0	0	0	
SALEM	0	2	0	0	
SOMERSET	0	0	0	0	
SUSSEX	2	9	2	29	
UNION	0	0	0	0	
WARREN	1	7	5	64	
NW Region	4	25	12	146	
NE Region	28	165	47	343	
CW Region	5	23	16	97	
CE Region	13	133	44	375	
South Region	23	182	51	406	
State Total	73	528	170	1367	