




Respiratory Virus Surveillance Report¹

New Jersey Department of Health
Communicable Disease Service



Week ending March 02, 2013 (MMWR week 9)

SYNOPSIS

Influenza Activity Level ²		
State Activity Week ending 03/02:		
HIGH		
Current week Last year: HIGH		
Regional ³ Data		
Northwest	HIGH	
Northeast	HIGH	
Central West	HIGH	
Central East	HIGH	
South	HIGH	

ILI Activity ⁴				
	Percent ILI/Absenteeism			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	1.25 (0.00, 18.01)	1.09	0.58	0.59 (0.62, 0.85)
Schools (absenteeism)	5.25 (2.87, 8.00)	5.95	5.07	3.85 (4.75, 4.85)
Emergency Departments	4.29 (0.00, 8.95)	4.60	2.65	2.59 (3.43, 4.34)

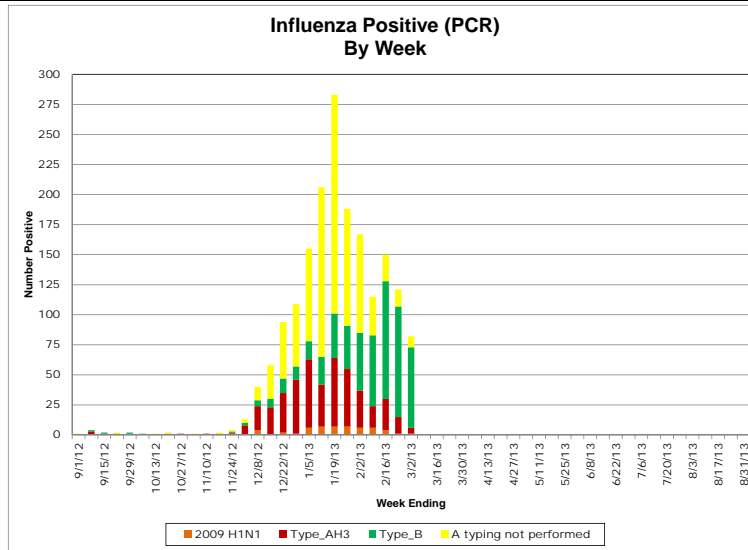
Viral Activity ⁷			
	Current Week	Past 3 Weeks	Cumulative Total
Influenza H1N1 (2009)	1	6	53
Influenza H3N2	5	45	431
Influenza B	67	267	517
Respiratory Syncytial Virus (RSV)	86	290	2831
Rapid Influenza Tests	243	735	4775

ILINet Providers			
Current Week		Previous Week	
#of reporters	%ILI	#of reporters	%ILI
8	3.18	14	3.10

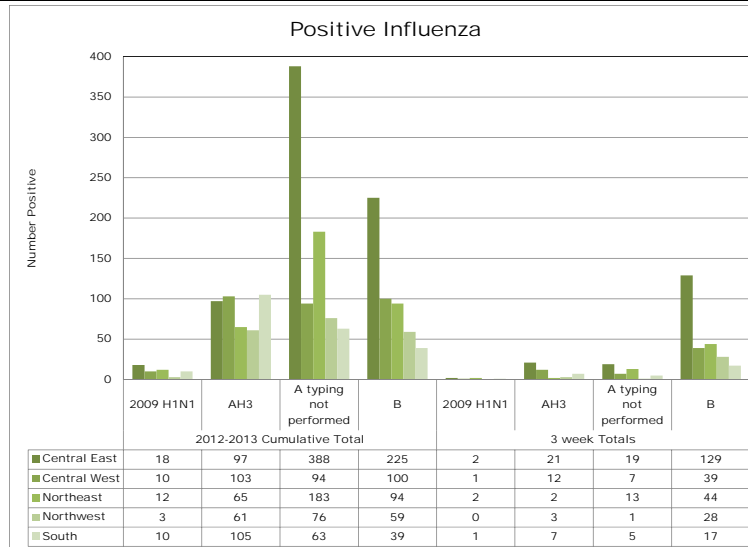
Report also available at: <http://nj.gov/health/flu/fluinfo.shtml>

Virologic Surveillance⁷

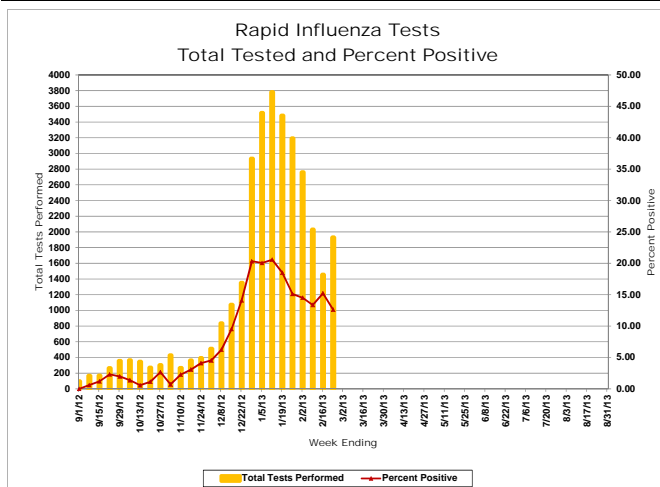
Influenza Positive Specimens (PCR) - Result by Week



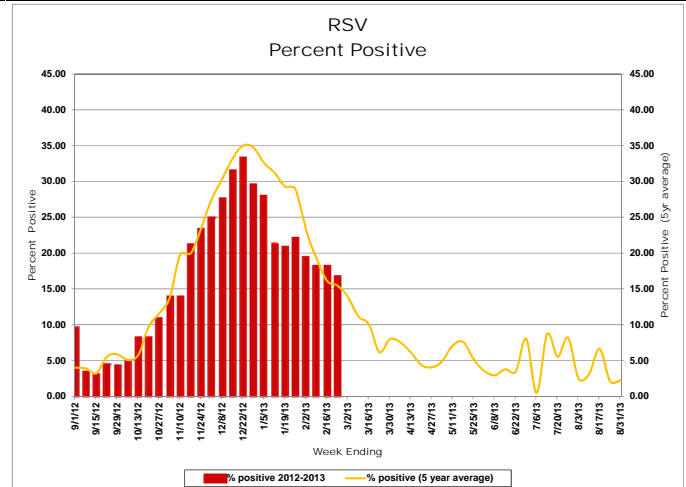
Influenza Positive Specimens (PCR)- Result by Region³



Influenza Rapid Antigen Result by Week



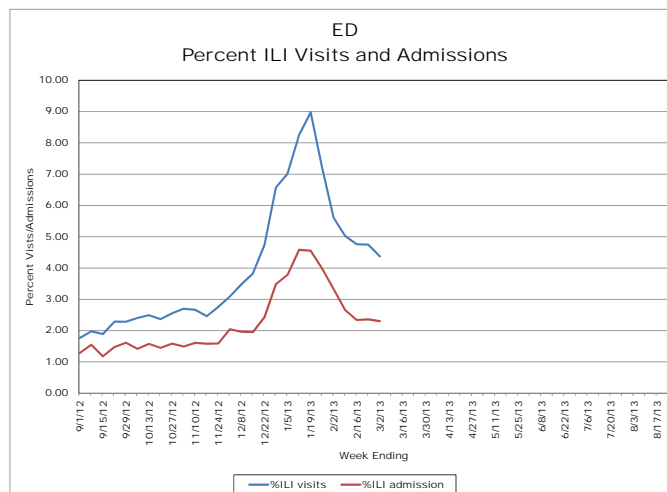
Respiratory Syncytial Virus (RSV) Results by Week



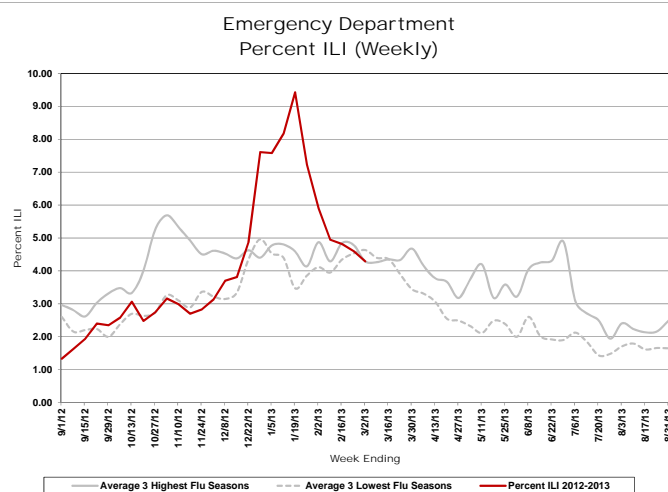
Influenza-like Illness Surveillance

Emergency Department⁸

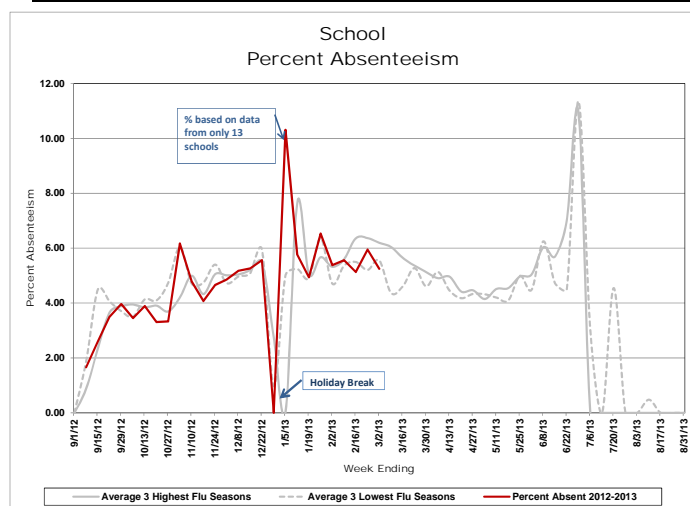
Daily Visits and Admission



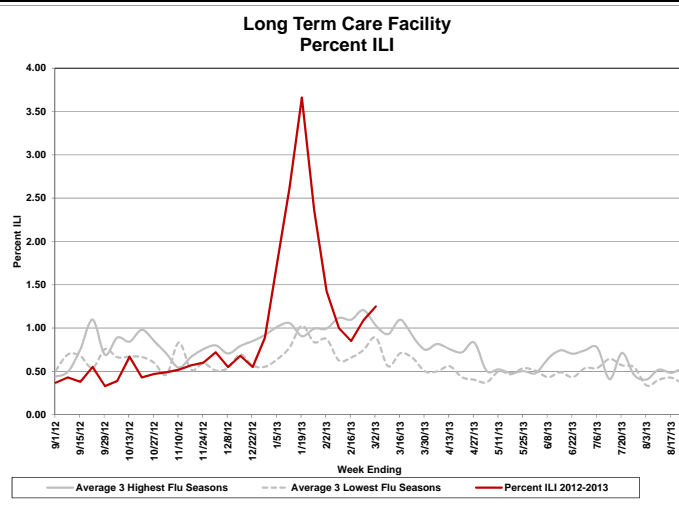
Visits – Tuesday Only



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

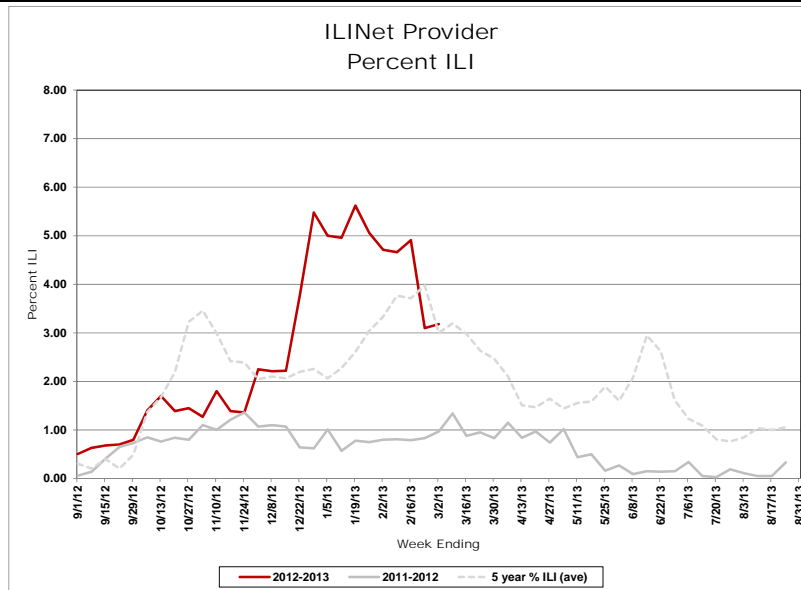


Table 1 Influenza Activity Level – Definitions for State Activity				
<u>NJ Level</u>	<u>CSTE Level</u>	<u>Definition</u>		
		<u>ILI Activity/Outbreaks</u>		<u>Lab Activity</u>
Low	No Activity	ILI activity at or below baseline AND no detected outbreaks	AND	No lab confirmed cases
	Sporadic	Low ILI activity 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
February, 26, 2013 12:00 AM MMRW WEEK 9									
ATLANTIC	4	1	0.65	51	31	5.65	5	4	2.40
BERGEN	6	3	0.15	36	16	4.06	5	5	3.89
BURLINGTON	6	2	0.00	115	58	5.44	4	3	3.20
CAMDEN	5	0	0.00	17	0	0.00	7	7	5.21
CAPE MAY	7	3	1.59	11	11	6.32	1	1	4.67
CUMBERLAND	2	2	1.10	12	5	8.00	3	3	4.17
ESSEX	11	3	1.57	22	6	2.87	11	7	5.73
GLOUCESTER	5	4	1.23	6	6	4.63	2	2	3.77
HUDSON	16	2	0.56	90	20	4.83	6	6	5.39
HUNTERDON	4	4	1.15	8	8	5.01	1	1	3.90
MERCER	10	1	0.00	27	18	4.50	5	5	8.95
MIDDLESEX	20	6	0.69	35	24	4.59	6	6	4.46
MONMOUTH	15	3	1.58	26	15	6.00	5	5	3.06
MORRIS	4	0	0.00	5	0	0.00	4	4	1.82
OCEAN	23	16	1.84	24	23	7.48	4	3	4.75
PASSAIC	11	7	0.20	66	43	5.25	3	3	2.75
SALEM	2	0	0.00	14	6	7.13	1	1	1.79
SOMERSET	7	2	18.01	92	24	4.31	1	1	6.79
SUSSEX	6	3	0.32	24	16	4.37	2	2	0.00
UNION	4	1	0.00	195	20	4.59	5	5	0.52
UNKNOWN	0	0	0.00	1	1	3.33	0	0	0.00
WARREN	4	3	0.00	27	15	5.49	2	2	8.61
NW Region	25	13	0.21	122	74	5.10	11	11	2.86
NE Region	33	8	0.56	148	42	4.38	22	18	5.14
CW Region	21	7	5.61	127	50	4.48	7	7	8.03
CE Region	62	26	1.40	280	82	5.75	20	19	3.39
South Region	31	12	1.01	226	117	5.70	23	21	3.96
State Total	172	66	1.25	903	365	5.25	83	76	4.29

	RSV Tests		Flu Tests		
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
February, 26, 2013 12:00 AM MMRW WEEK 9					
ATLANTIC	4	47	19	151	
BERGEN	0	0	34	215	
BURLINGTON	3	23	26	141	
CAMDEN	4	42	24	314	
CAPE MAY	0	7	4	45	
CUMBERLAND	4	36	0	0	
ESSEX	9	39	20	225	
GLOUCESTER	4	24	21	102	
HUDSON	13	77	6	60	
HUNTERDON	7	12	17	93	
MERCER	8	31	1	14	
MIDDLESEX	20	121	26	136	
MONMOUTH	3	25	22	174	
MORRIS	0	2	0	41	
OCEAN	0	14	11	98	
PASSAIC	0	0	0	0	
SALEM	0	3	0	0	
SOMERSET	0	0	0	0	
SUSSEX	1	5	2	28	
UNION	2	6	0	3	
WARREN	4	7	10	87	
NW Region	5	14	12	156	
NE Region	22	116	60	500	
CW Region	15	43	18	107	
CE Region	25	166	59	411	
South Region	19	182	94	753	
State Total	86	521	243	1927	