

Respiratory Virus Surveillance Report¹



New Jersey Department of Health Communicable Disease Service

Week ending May 14, 2016 (MMWR week 19)

SYNOPSIS

	Influenza Activity Leve	l^2
State Activi	ty Week ending 5/14:	
\mathbf{M}	ODERATE	Sussen Senger
Current we	eek Last year: LOW	Martin Marin Care Law
Re	gional ³ Data	Hunter Far Stand Made on Made
Northwest	LOW	Burington Down
Northeast	LOW	Elico sur
Central West	MODERATE	Cumborland
Central East	MODERATE	
South	LOW	

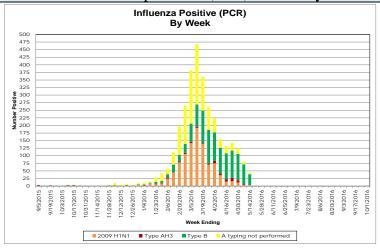
		ILI Activit	y^4	
	P	ercent ILI/Absente	eeism	Baselines
	Current week (range by county)	Last week Current year	Current week Last year	Non-season ⁵ Season ⁶ (3 low, 3 high)
Long Term Care Facilities	0.53 (0.00, 1.29)	0.33	0.46	0.58 (0.60, 0.77)
Schools (absenteeism)	4.75 (1.70, 11.14)	5.02	4.32	3.56 (4.49, 4.85)
Emergency Departments	3.12 (0.00, 8.57)	2.97	2.26	2.39 (3.21, 4.20)

Viral A	ctivity ⁷		
	Current Week	Past 3 Weeks	Cumulative Total
Influenza H1N1 (2009)	3	18	994
Influenza H3N2	0	10	82
Influenza B	36	189	1006
Respiratory Syncytial Virus (RSV)	3	21	3243
Rapid Influenza Tests	166	630	6818

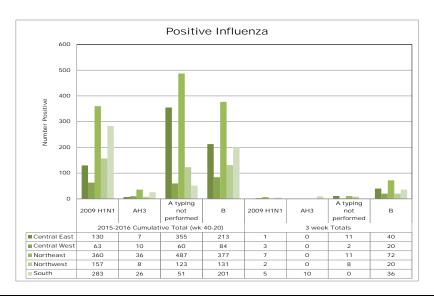
I	LINet P	Providers	
Current W	eek	Previous W	⁷ eek
#of reporters	%ILI	#of reporters	%ILI
10	3.19	20	3.94

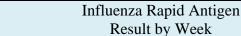
Virologic Surveillance⁷

Influenza Positive Specimens (PCR) - Result by Week



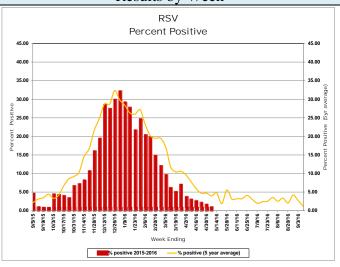
Influenza Positive Specimens (PCR)- Result by Region³



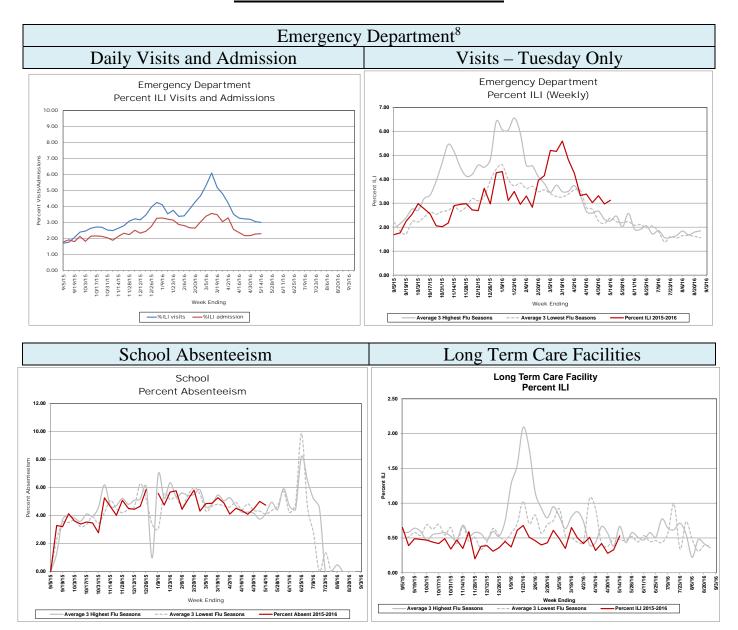


Rapid Influenza Tests Total Tested and Percent Positive 45.00 4400 ₽ 4000 3600 30.00 ë 3200 25.00 S 2800 o 2000 15.00 1200 10.00 800 400 3/5/16 3/19/16 4/2/16 4/2/16 4/30/16 5/2/8/16 6/11/16 6/2/16 7/9/16 7/2/16 8/6/16 8/2/16 1/9/16 2/6/16 Total Tests Performed ——Percent Positive

Respiratory Syncytial Virus (RSV) Results by Week



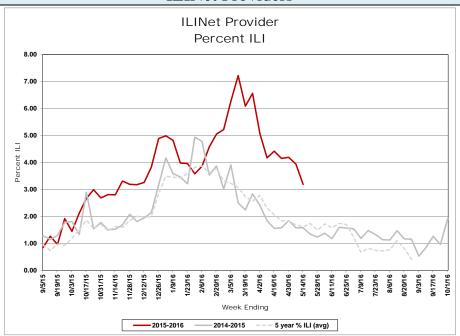
Influenza-like Illness Surveillance



Respiratory Outbreaks in Long Term Care Facilities⁹

Cumulative outbreaks 2015-2016 season	29
No. outbreaks last 3 weeks	4
Regions with recent outbreaks	NE, NW, S





Pediatric Influenza Mortality¹⁰

	Influenz	of Pediatric za Deaths d to CDC
Influenza season	NJ	US (includes NJ)
2010-2011	4	123
2011-2012	1	35
2012-2013	7	171
2013-2014	6	108
2014-2015	1	146
2015-2016	1	67

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 a 10 year (2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014 and 2015) 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: 09-10, 12-13, 14-15; Low: 10-11,11-12,13-14), ED (High: 09-10, 12-13, 14-15; Low: 10-11, 11-12,13-14) and schools (High: 09-10, 10-11, 12-13; Low: 11-12,13-14, 14-15). 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 10, 2015. 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.
- 10. Data presented for New Jersey are for cases confirmed as of the current reporting week. Data presented for the United States represent data reported for the prior MMWR week. This data can be viewed at: http://www.cdc.gov/flu/weekly/.

	I	<u>Table 1</u> nfluenza Activity Level – Definitions for	State Ac	ctivity
NJ Level	CSTE Level	i i	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

	<u>Table 2</u> 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 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.

INFLUENZA LABORATORY REPORTS BY COUNTY

Counts represent total positive specimens from week ending October 10, 2015 to current MMWR week

Source: CDRSS

Frequency

		R	ESULT		
COUNTY(COUNTY)	Influenza A - Typing not performed	Influenza A 2009 H1N1	Influenza AH3	Influenza B	Total
ATLANTIC	224	14	1	106	345
BERGEN	497	250	25	328	1100
BURLINGTON	132	129	1	149	411
CAMDEN	201	103	1	202	507
CAPE MAY	15	3	0	5	23
CUMBERLAND	9	1	0	2	12
ESSEX	222	43	6	110	381
GLOUCESTER	19	31	23	30	103
HUDSON	130	74	5	108	317
HUNTERDON	16	28	3	12	59
MERCER	154	21	8	117	300
MIDDLESEX	145	51	4	126	326
MONMOUTH	425	9	0	240	674
MORRIS	103	25	0	66	194
OCEAN	268	14	1	198	481
PASSAIC	168	105	3	135	411
SALEM	2	2	0	1	5
SOMERSET	43	19	1	31	94
SUSSEX	23	4	3	11	41
UNION	331	56	2	119	508
WARREN	9	23	2	23	57
Total	3136	1005	89	2119	6349

INFLUENZA LABORATORY REPORTS BY REGION

Counts represent total positive specimens from week ending October 10, 2015 to current MMWR week

Source: CDRSS

Frequency

	Table of	REGION b	y RESULT		
		R	ESULT		
REGION	Influenza A - Typing not performed	Influenza A 2009 H1N1	Influenza AH3	Influenza B	Total
Central East	1169	130	7	683	1989
Central West	213	68	12	160	453
Northeast	849	367	36	546	1798
Northwest	303	157	8	235	703
South	602	283	26	495	1406
Total	3136	1005	89	2119	6349

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 05/10/2016



05/16/2016 8:24 AM

		Long Term Ca	re		Schools		Hospi	tal Emergency	Dept
COUNTY	# Enrolled	# Reports Rec'd	% I⊏I	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	⊒ %
May 10, 2016 MMWR WEEK 19	<u> </u>	7 -		,					<u> </u>
ATLANTIC	6	0	0.00	42	25	6.53	4	4	1.34
BERGEN	5	2	0.00	35	22	3.40	5	5	2.03
BURLINGTON	6	1	0.00	79	54	5.24	4	3	1.40
CAMDEN	0	0	0.00	1	0	0.00	7	7	3.97
CAPE MAY	3	0	0.00	14	6	4.48	1	1	0.98
CUMBERLAND	5	4	1.29	11	8	11.14	3	3	1.75
ESSEX	2	0	0.00	4	3	2.55	8	7	4.28
GLOUCESTER	3	0	0.00	4	3	3.75	2	2	1.83
HUDSON	4	2	0.60	13	6	2.97	6	6	3.34
HUNTERDON	4	4	0.67	8	8	3.66	1	1	0.00
MERCER	3	0	0.00	22	14	3.94	5	4	4.38
MIDDLESEX	4	1	0.00	21	16	3.43	6	6	2.44
MONMOUTH	5	2	0.00	16	14	5.89	5	5	3.77
MORRIS	0	0	0.00	9	2	1.70	4	4	2.23
OCEAN	1	0	0.00	5	5	6.20	4	4	3.98
PASSAIC	7	4	0.19	26	9	3.76	3	3	3.44
SALEM	0	0	0.00	3	1	4.56	1	1	1.72
SOMERSET	3	0	0.00	22	14	3.63	1	1	4.29
SUSSEX	2	1	0.00	5	5	3.30	2	2	0.00
UNION	1	0	0.00	49	15	2.48	5	5	3.49
WARREN	4	0	0.00	20	6	2.68	2	1	8.57
NW Region	13	5	0.18	60	22	3.35	11	10	2.91
NE Region	11	4	0.36	52	31	3.22	19	18	3.41
CW Region	10	4	0.67	52	36	3.75	7	6	3.82
CE Region	11	3	0.00	91	50	4.08	20	20	3.34
South Region	23	5	1.16	154	97	6.06	22	21	2.45
State Total	68	21	0.53	409	236	4.75	79	75	3.12

User Name: HALDEMAN, ANNMARIE Page 1 of 1

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 05/10/2016





	RSV	Tests	Rapid F	lu Tests
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed
May 10, 2016 MMWR WEEK 19				
ATLANTIC	0	11	4	56
BERGEN	0	17	20	136
BURLINGTON	0	0	0	0
CAMDEN	0	3	20	204
CAPE MAY	0	2	0	15
CUMBERLAND	0	0	0	0
ESSEX	0	14	3	53
GLOUCESTER	0	1	8	82
HUDSON	0	5	6	31
HUNTERDON	0	5	3	44
MERCER	0	5	2	26
MIDDLESEX	0	18	6	46
MONMOUTH	2	41	17	234
MORRIS	1	159	1	16
OCEAN	0	4	17	138
PASSAIC	0	7	27	117
SALEM	0	0	0	0
SOMERSET	0	0	0	0
SUSSEX	0	37	5	37
UNION	0	3	0	1
WARREN	0	0	0	0
NW Region	1	203	33	170
NE Region	0	36	29	220
CW Region	0	10	5	70
CE Region	2	66	40	419
South Region	0	17	32	357
State Total	3	332	139	1236