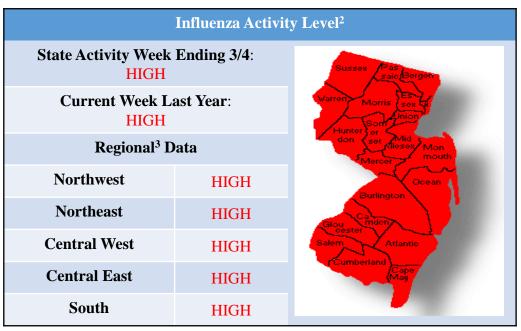


Respiratory Virus Surveillance Report¹ New Jersey Department of Health Communicable Disease Service Week Ending March 4, 2017 (MMWR week 9)



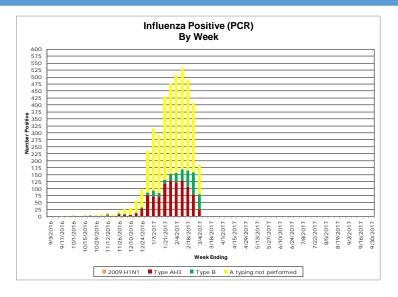
Synopsis



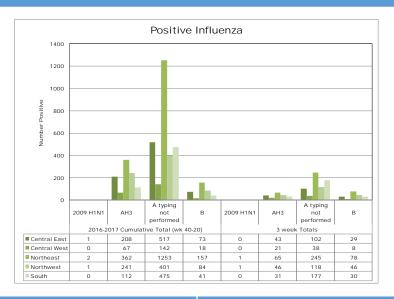
		ILI Activity ⁴		
	Perce	nt ILI/Absenteeis	m	Baselines
	Current Week (range by county)	Last week Current year	Current week Last year	Non-season ⁵ Season ⁶ (3 low, 3 high)
Long Term Care Facilities	0.41 (0.00, 2.73)	0.43	0.49	0.56 (0.52, 0.76)
Schools (Absenteeism)	4.30 (2.66, 8.82)	5.77	4.86	3.42 (4.49, 4.81)
Emergency Departments	3.92 (0.89, 8.62)	5.20	5.20	2.35 (3.17, 3.81)
		Viral Activity	7	
		Current Week	Past 3 Weeks	Cumulative Total
Influenza I	H1N1 (2009)	1	2	4
Influen	za H3N2	24	206	990
Influ	enza B	55	195	377
	Syncytial Virus SV)	70	275	2642
Rapid Infl	uenza Tests	766	3043	8980

Virologic Surveillance⁷

Influenza Positive Specimens (PCR) – Result by Week

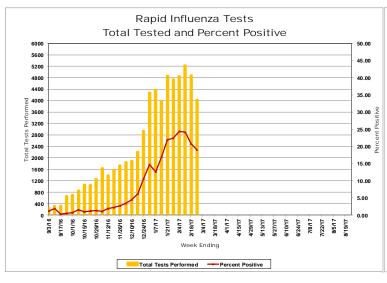


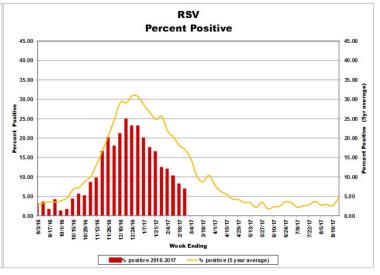
Influenza Positive Specimens (PCR) – Result by Region³



Influenza Rapid Antigen Result by Week

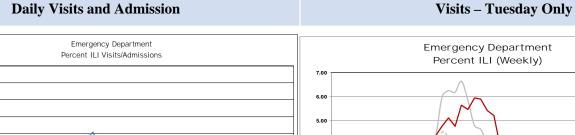
Repiratory Syncytial Virus (RSV) Result by Week

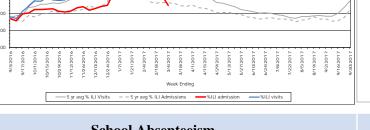




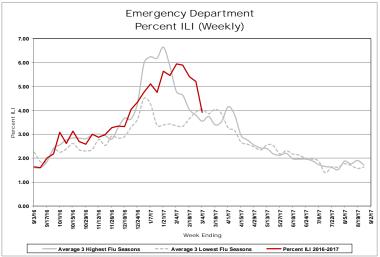
Influenza-Like Illness Surveillance

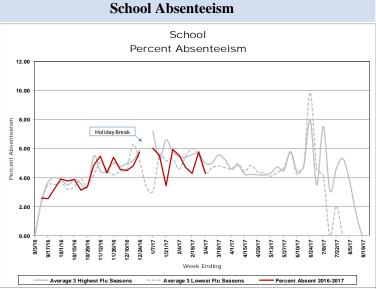
Emergency Department⁸

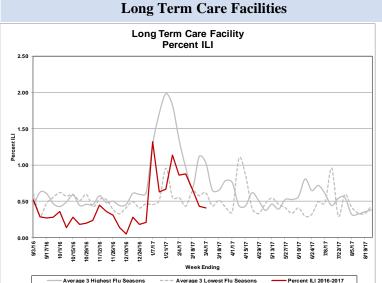




10.00

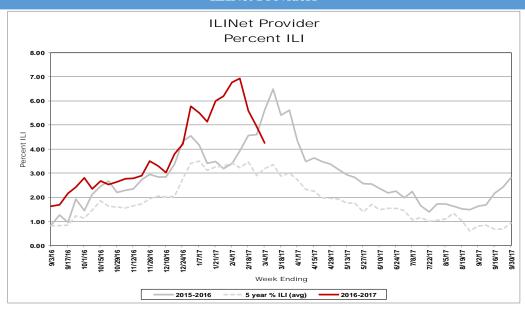






Respiratory Outbreaks in	Long Term Care Facilities ⁹
Cumulative Outbreaks 2016-2017 season	80
No. outbreaks last 3 weeks	17
Regions with recent outbreaks	NE, NW, CE, CW, S

ILINet Providers



	ILINet P	Providers	
Curren	t Week	Previou	ıs Week
# of reporters	% ILI	# of reporters	% ILI
26	4.26	26	4.94

)	Pediatric Influenza Mortality ¹	D
Num	ber of Pediatric Influenza D Reported to CDC	eaths
Influenza Season	New Jersey	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	85
2016 – 2017	0	40

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°F above baseline temperature.
- 5. Non-season baseline is calculated by taking the average of statewide percentages of ILI for a 11 year (2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014,2015 and 2016) 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: 10-11, 12-13, 14-15; Low: 11-12, 13-14, 15-16), ED (High: 12-13, 13-14, 14-15; Low: 10-11, 11-12, 15-16) and schools (High: 10-11, 12-13, 15-16; 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 8, 2016. 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/.

	Influenza Activity	<u>Table 1</u> Level – Definitions for State <i>i</i>	Activity	
NJ Level	CSTE Level	_	<u>Definition</u>	
		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 Publ	ic Health	Regions
	<u> </u>	<u>Definition</u>	<u>1</u>
NJ Level	ILI Activity/Outbreaks		<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 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 7, 2016 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	515	0	35	54	604
BERGEN	1370	1	231	169	1771
BURLINGTON	309	0	8	39	356
CAMDEN	762	0	33	38	833
CAPE MAY	16	0	1	4	21
CUMBERLAND	13	0	4	0	17
ESSEX	369	1	58	44	472
GLOUCESTER	206	0	48	17	271
HUDSON	590	0	75	55	720
HUNTERDON	116	0	29	16	161
MERCER	234	0	21	20	275
MIDDLESEX	305	0	55	39	399
MONMOUTH	780	0	22	72	874
MORRIS	432	0	84	48	564
OCEAN	595	0	12	45	652
PASSAIC	769	0	77	103	949
SALEM	6	0	1	0	7
SOMERSET	73	0	27	10	110
SUSSEX	65	0	23	14	102
UNION	444	1	120	60	625
WARREN	110	1	56	19	186
Total	8079	4	1020	866	9969

INFLUENZA LABORATORY REPORTS BY REGION

Counts represent total positive specimens from week ending October 7, 2016 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	2124	1	209	216	2550
Central West	423	0	77	46	546
Northeast	2329	2	364	268	2963
Northwest	1376	1	240	184	1801
South	1827	0	130	152	2109
Total	8079	4	1020	866	9969

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 02/28/2017



03/06/2017 11:47 AM

		Long Term Ca	re		Schools		Hospi	tal Emergency	Dept
COUNTY	# Enrolled	# Reports Rec'd	∏ %	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	
February 28, 2017 MMWR WE			Ü			Ţ,		, , <u> </u>	, and the second
ATLANTIC	6	0	0.00	43	25	5.86	4	4	2.66
BERGEN	10	5	0.09	37	21	3.11	6	6	2.97
BURLINGTON	8	3	0.00	96	56	4.92	4	3	3.48
CAMDEN	1	0	0.00	1	0	0.00	7	7	4.80
CAPE MAY	3	0	0.00	14	9	5.02	1	1	8.62
CUMBERLAND	5	4	1.03	12	11	8.82	3	3	5.11
ESSEX	7	3	0.00	4	2	3.39	8	7	4.54
GLOUCESTER	3	2	0.00	4	2	3.00	2	2	2.77
HUDSON	4	1	1.73	14	8	3.56	6	6	4.86
HUNTERDON	4	4	2.73	8	7	4.45	1	1	0.95
MERCER	3	0	0.00	22	16	3.67	5	4	5.87
MIDDLESEX	11	5	0.21	22	16	3.71	6	6	2.90
MONMOUTH	6	2	0.00	16	6	4.48	5	5	3.54
MORRIS	2	0	0.00	9	5	2.79	4	4	2.65
OCEAN	8	1	0.00	5	4	6.99	4	4	2.85
PASSAIC	10	2	0.00	29	15	2.66	3	3	5.53
SALEM	0	0	0.00	3	3	3.73	1	1	5.77
SOMERSET	4	0	0.00	23	19	2.91	1	1	7.09
SUSSEX	2	1	0.00	5	3	5.65	2	2	0.89
UNION	1	0	0.00	51	17	2.88	5	5	2.16
WARREN	5	2	0.00	20	11	2.98	2	2	6.96
NW Region	19	5	0.00	63	34	2.97	11	11	4.11
NE Region	21	9	0.15	55	31	3.27	20	19	4.17
CW Region	11	4	2.73	53	42	3.44	7	6	5.45
CE Region	26	8	0.16	94	43	3.72	20	20	2.91
South Region	26	9	0.75	173	106	5.53	22	21	4.19
State Total	103	35	0.41	438	256	4.30	80	77	3.92

User Name: FULTON, TARA Page 1 of 1

Communicable Disease Reporting and Surveillance System

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS SURVEILLANCE DATE: 02/28/2017



	RSV Tests		Rapid I	Flu Tests
County	# Positive	Total Tests Performed	# Positive	Total Tests Performed
February 28, 2017 MMWR WEEk	₹9	' ' -		
ATLANTIC	7	47	91	348
BERGEN	4	37	144	483
BURLINGTON	0	0	5	35
CAMDEN	1	14	41	315
CAPE MAY	0	8	7	80
CUMBERLAND	2	17	0	0
ESSEX	10	152	97	691
GLOUCESTER	0	5	39	314
HUDSON	1	8	6	38
HUNTERDON	1	12	15	100
MERCER	0	2	22	142
MIDDLESEX	3	59	25	130
MONMOUTH	11	113	105	591
MORRIS	8	196	34	139
OCEAN	1	13	35	186
PASSAIC	5	32	59	261
SALEM	0	0	0	0
SOMERSET	0	0	0	0
SUSSEX	7	95	33	99
UNION	4	155	3	12
WARREN	5	73	5	53
NW Region	25	396	131	552
NE Region	15	197	247	1212
CW Region	1	14	37	242
CE Region	19	340	168	919
South Region	10	91	183	1092
State Total	70	1038	766	4017