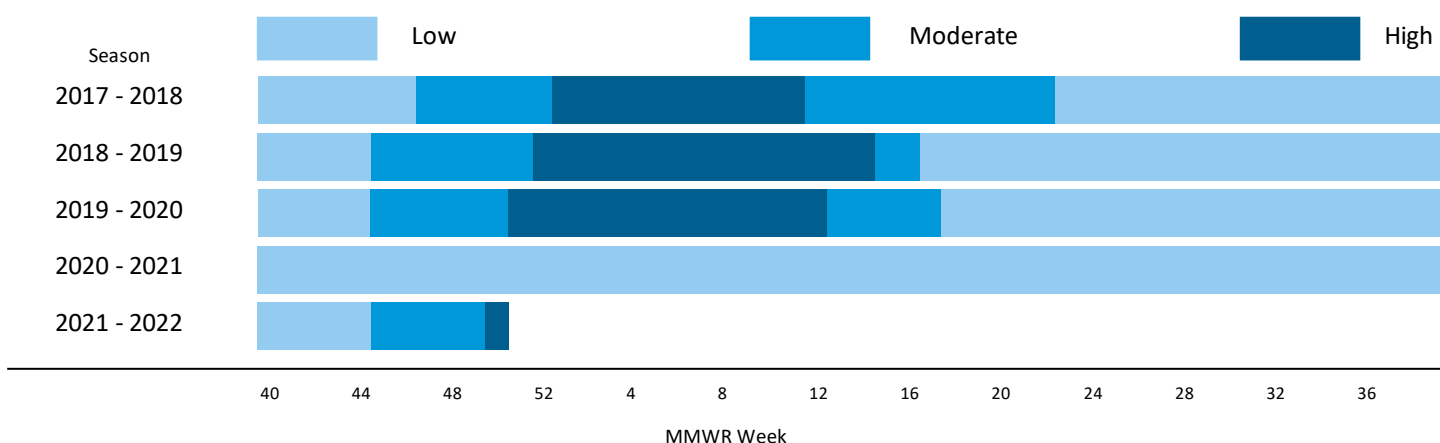


## Highlights

- **Influenza activity level is high statewide**
- **Emergency Department visits and Outpatient provider visits associated with influenza-like illness are higher than last week and higher than this same week last year**
- **There have been no influenza-associated confirmed pediatric deaths reported this season**
- **There have been 5 outbreaks reported from Long-term Care Facilities this season**
- **There has been an increase in the number of positive results reported; influenza A (subtyping not performed) is at 79.31%, followed by A(H3N2) (18.83%), B (1.75%), and A(H1N1)pdm09 (0.12%)**

## Influenza Activity Level Comparison



## 1. Current Influenza Activity Level

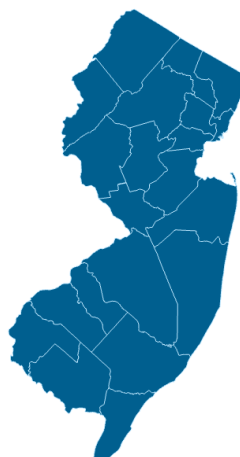
This report contains surveillance information for influenza and other viral respiratory illnesses reported to the New Jersey Department of Health (NJDOH); Communicable Disease Service. As per regulation, influenza is a laboratory reportable condition but it is not possible to count every case that occurs since some individuals will not seek medical care or may never get tested. Surveillance is conducted year round and this report is published from October to May. The Morbidity and Mortality Weekly Report (MMWR) week is the year used by the Centers for Disease Control and Prevention (CDC) for disease reporting and can be found at [https://www.nj.gov/health/cd/documents/flu/MMWR\\_weeks.pdf](https://www.nj.gov/health/cd/documents/flu/MMWR_weeks.pdf). Activity Levels are defined in the table on page 7 of this report. **Counts displayed below are the cumulative totals reported for the season beginning with MMWR week 40, week ending October 9, 2021.**

### State Activity Level

HIGH

### Regional Data

<b>Northwest</b> Morris, Passaic, Sussex, Warren	HIGH
<b>Northeast</b> Bergen, Essex, Hudson	HIGH
<b>Central West</b> Hunterdon, Mercer, Somerset	HIGH
<b>Central East</b> Middlesex, Monmouth, Ocean, Union	HIGH
<b>Southwest</b> Burlington, Camden, Gloucester, Salem	HIGH
<b>Southeast</b> Atlantic, Cape May, Cumberland	HIGH



**4,583**

Cases reported (PCR & Rapid)

**5**

Outbreaks (Long Term Care)

**0**

Pediatric flu deaths (confirmed)

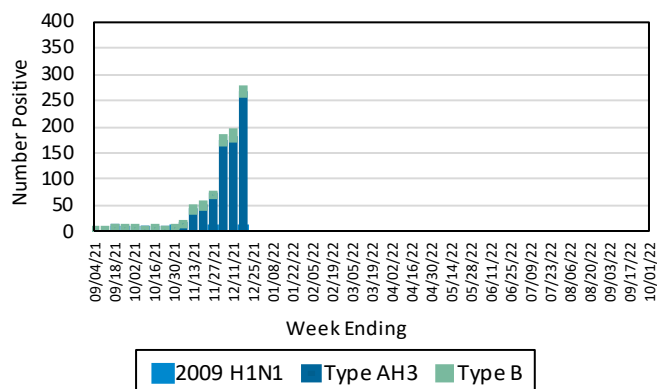
## 2. Laboratory Testing

Real-time polymerase chain reaction (PCR) results for influenza (AH1N1, AH3N2, A subtyping not performed, and B) are obtained from electronic laboratory transmission submitted by acute care, commercial and public health laboratories. Rapid influenza test data are acquired from facilities reporting via the CDRSS Surveillance for Influenza and COVID-19 (SIC) module. While the cumulative totals begin with MMWR week 40, week ending October 9, 2021, the data represented in charts begin with MMWR week 35, week ending September 4, 2021. Past 3 weeks data includes the current week and two prior weeks starting with MMWR week 40, week ending October 9, 2021.

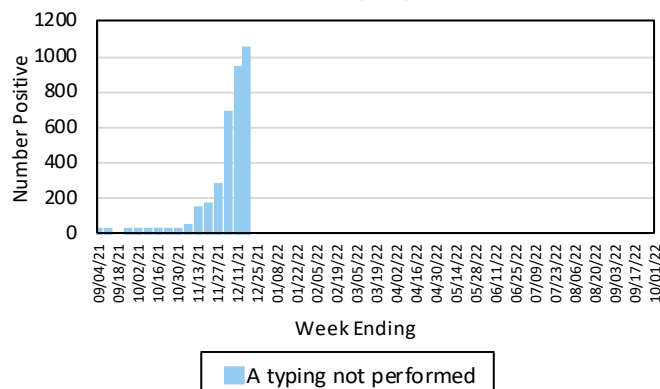
	Test Type	Current Week	Past 3 Weeks	Cumulative Total
PCR	Influenza A (H1N1)pdm09	2	2	5 (0.12%)
	Influenza A H3N2	259	606	776 (18.83%)
	Influenza A (Subtyping Not Performed)	1044	2650	3269 (79.31%)
	Influenza B	11	34	72 (1.75%)
Rapid	Rapid Influenza	164	361	461

## 3. Virologic Surveillance

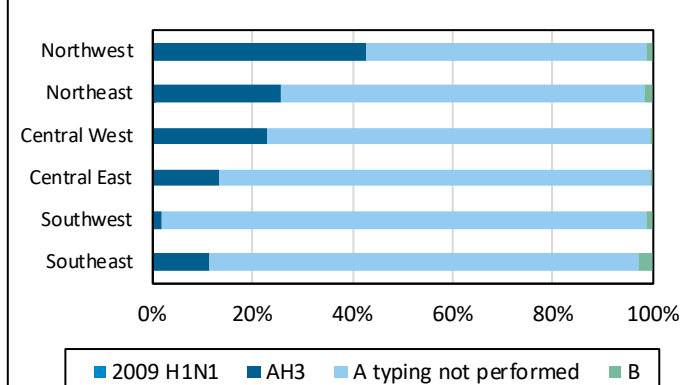
Positive Typed Influenza Test Results,  
PCR Only By Subtype, By Week



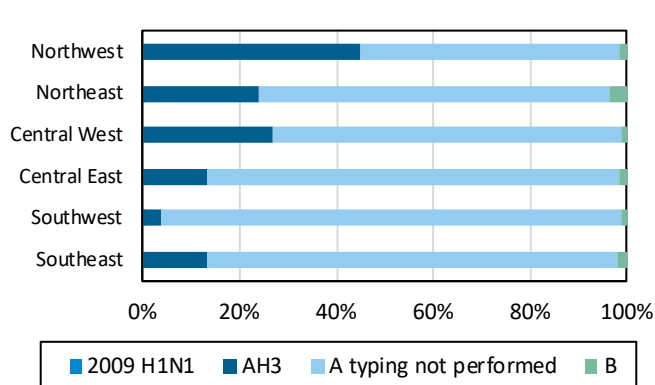
Positive Influenza A, Subtyping Not Performed  
PCR Only, By Week



Positive Influenza Tests, PCR Only  
Past Three Weeks, By Subtype, By Region

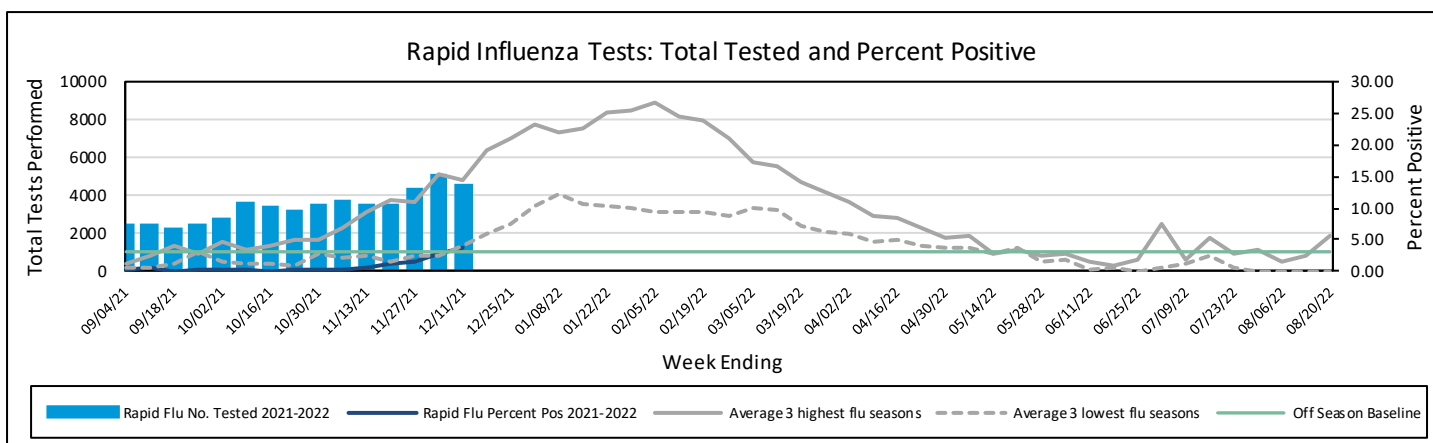


Positive Influenza Tests, PCR Only  
Total to Date, By Subtype, By Region



### 3. Virologic Surveillance, *continued*

Data presented for rapid influenza testing represents information for the week prior to the current report week. Three year seasonal averages for rapid influenza tests are determined by calculating the average percent positive for each influenza season (October to May) beginning with the 2010-2011 season. These averages were 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 for each week. The seasons which contribute to the high and low value for the rapid influenza chart are as follows: High: 16-17, 17-18, 18-19; Low: 10-11, 11-12, 14-15. Off season baseline is calculated by taking the average of percent positivity for a 10 year period (2010 through and including 2019) during the months when influenza is less likely to be circulating (May-August). Data from the 19-20, 20-21 seasons were excluded due to the COVID-19 pandemic.



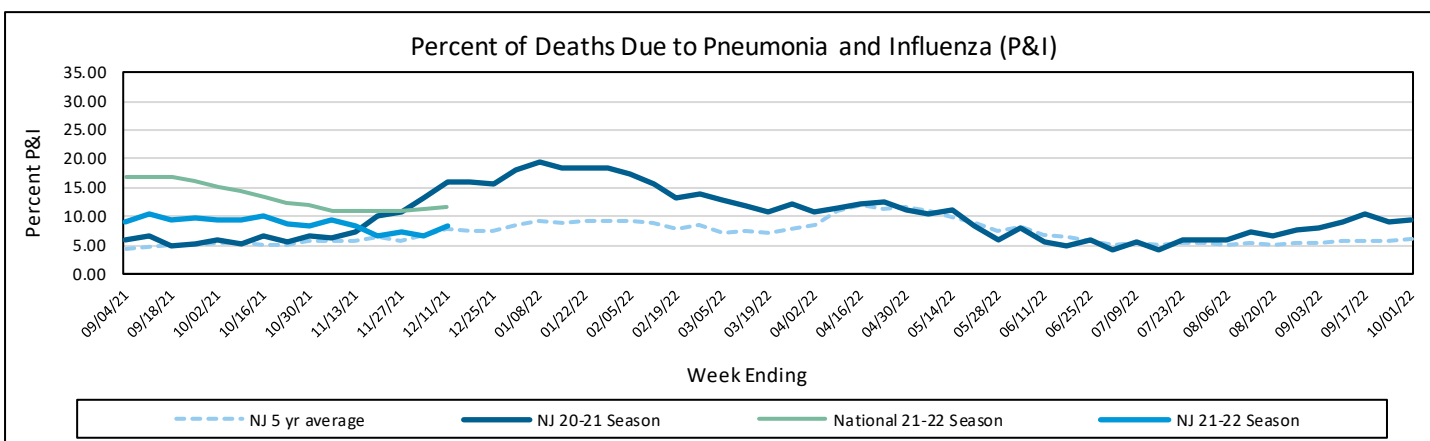
### 4. Pediatric Influenza Mortality

Influenza-associated pediatric mortality was added to New Jersey's reportable disease list in 2009. The below table includes severe and fatal influenza associated pediatric cases reported to NJDOH. Severe illness is defined as admission to an intensive care unit for an influenza-related illness. An influenza associated pediatric death is defined as a death resulting from a clinically compatible illness with lab confirmed influenza.

Influenza Season	US (fatal)	NJ (severe)	NJ (fatal)
<b>2017-2018</b>	180	61	5
<b>2018-2019</b>	106	51	6
<b>2019-2020</b>	188	57	2
<b>2020-2021</b>	1	1	0
<b>2021-2022</b>	0	2	0

### 5. Percent of Deaths due to Pneumonia and Influenza

Records of all deaths in New Jersey are maintained by NJDOH, Office of Vital Statistics and Registry and are submitted to the National Center for Health Statistics (NCHS). Pneumonia and influenza (P&I) deaths are identified from these records, compiled by the week of death and percentages are calculated. There is a 2-4 week lag period between the week the deaths have occurred and when the data for that week is reported. Because many influenza and COVID-19 deaths have pneumonia included on the death certificate, P&I no longer measures the impact of influenza in the same way as in the past. Additional information is also available at <https://gis.cdc.gov/grasp/fluview/mortality.html>.

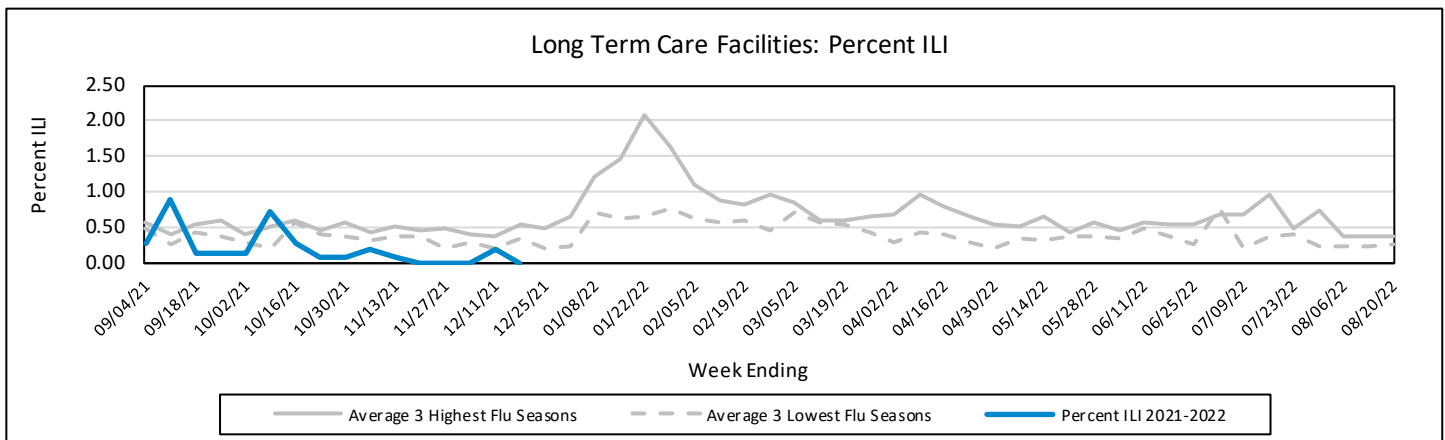


## 6. ILI Activity

Influenza-like illness (ILI) is defined as fever ( $> 100^{\circ}\text{F}$  [ $37.8^{\circ}\text{C}$ ], oral or equivalent) and cough and/or sore throat. For long term care facilities, fever is defined as  $2^{\circ}\text{F}$  above baseline temperature. ILI Activity from long term care facilities (LTCFs) and absenteeism data from schools is collected in the SIC Module of the Communicable Disease Reporting and Surveillance System (CDRSS). LTCFs and schools report their total census and number ill with ILI or number absent, respectively. Emergency department (ED) data is aggregate weekly totals of syndromic ILI visits and total ED registrations as recorded in EpiCenter (e.g., NJDOH syndromic surveillance system). Off season baseline is calculated by taking the average of statewide percentages of ILI for a 10 year period (2010 through and including 2019) during months when influenza is less likely to be circulating (May-August). Data from the 19-20, 20-21 seasons were excluded due to the COVID-19 pandemic.

Percent Influenza-like Illness/Absenteeism				Baselines
	Current Week (range by county)	Last week Current year	Current week Last year	Off Season (Seasonal Average— low, high)
Long Term Care Facilities	0.00 (0.00, 0.00)	0.20	0.33	0.47 (0.42, 0.76)
Emergency Departments	5.34 (3.43, 8.00)	4.78	3.46	1.96 (3.16, 4.33)
Schools (Absenteeism)	6.61 (4.71, 11.59)	5.88	4.62	3.25 (4.30, 4.94)

### 6a. Long Term Care ILI Activity



### 6b. Long Term Care Outbreaks

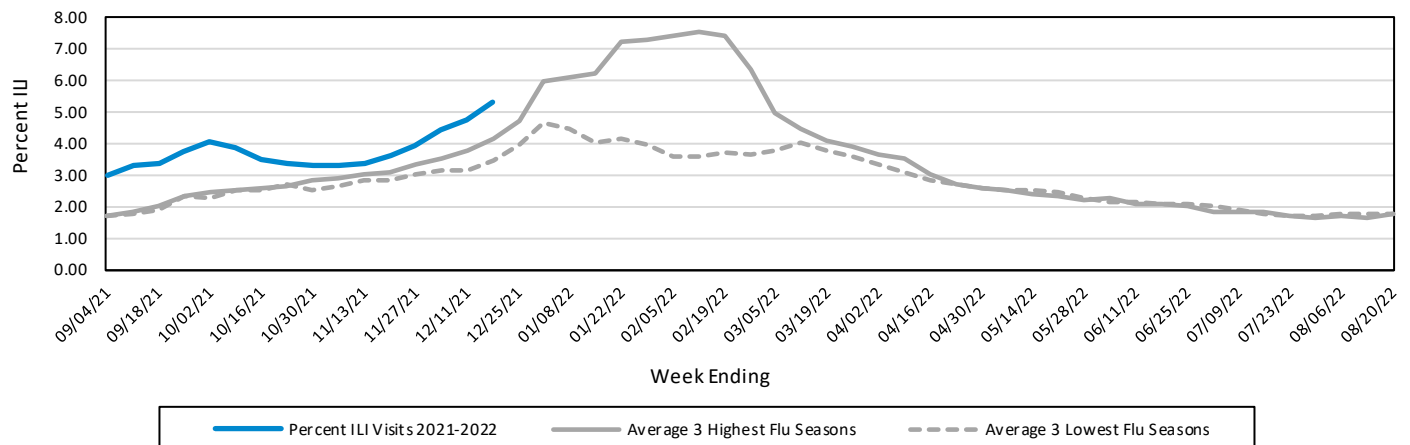
Only LTCF respiratory virus outbreaks reported to NJDOH that receive an outbreak number are recorded in this report. This does not include outbreaks due to COVID-19.

Respiratory Outbreaks in Long Term Care Facilities	
Cumulative Outbreaks 2021-2022 Season	5
No. outbreaks last 3 weeks	3
Regions with recent outbreaks	NW, NE, SE

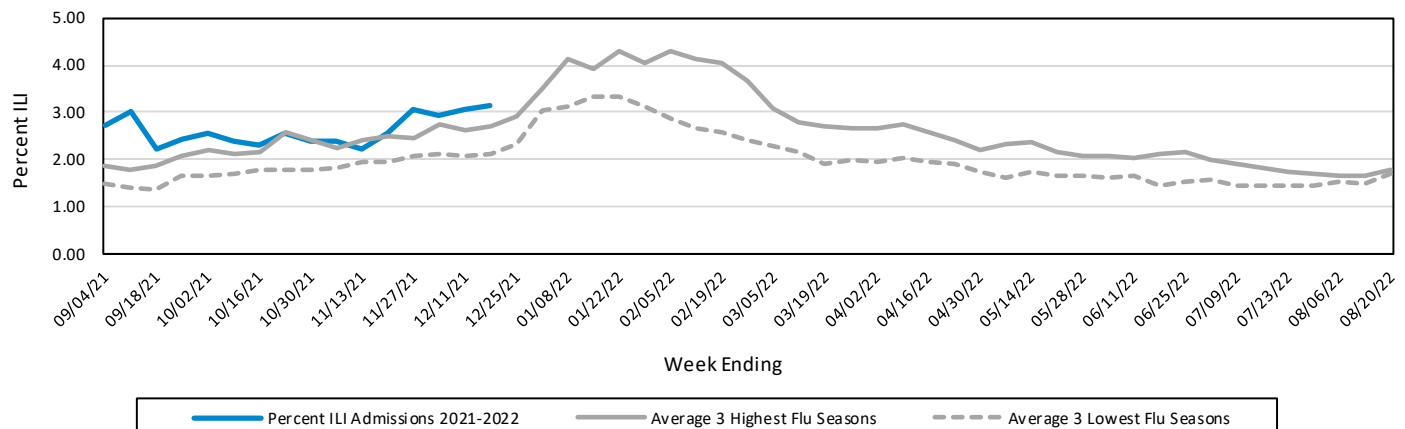
## 6c. Emergency Department ILI Activity (Syndromic Surveillance)

Daily visits and admissions associated with Influenza-like Illness (ILI) from emergency department data is collected via EpiCenter (NJDOH syndromic surveillance). Prior to 2017-2018 season, data on ILI visits were only recorded on one day per week usually on Tuesday. Beginning in the 2017-2018 season, weekly aggregate data is being recorded for ILI visits and admissions. Three year seasonal averages for emergency department visits and admissions are determined by calculating the average percent positive for each influenza season (October to May) beginning with the 2011-2012 season. These averages were 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 for each week. The seasons which contribute to the high and low value for Emergency Department Visits chart are as follows: High: 12-13, 17-18, 18-19; Low: 11-12, 14-15, 15-16. The seasons which contribute to the high and low value for Emergency Department Admissions chart are as follows: High: 13-14, 14-15, 17-18; Low: 11-12, 12-13, 16-17. Data from the 19-20, 20-21 seasons were excluded due to the COVID-19 pandemic. Syndromic surveillance may capture other respiratory pathogens, such as SARS-CoV-2, that present with similar symptoms.

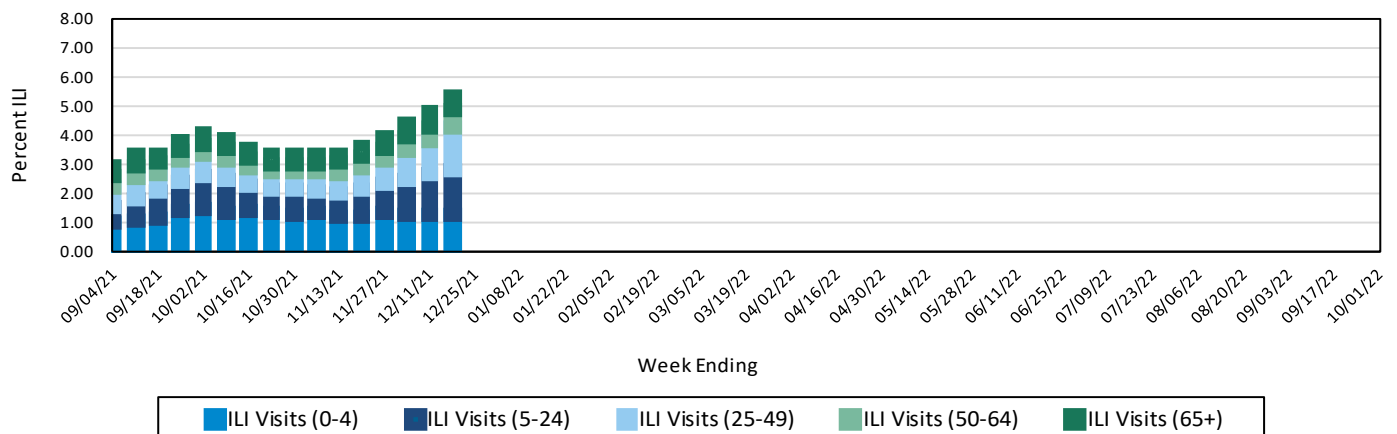
Percent of Emergency Department Visits (Syndromic) Associated with ILI



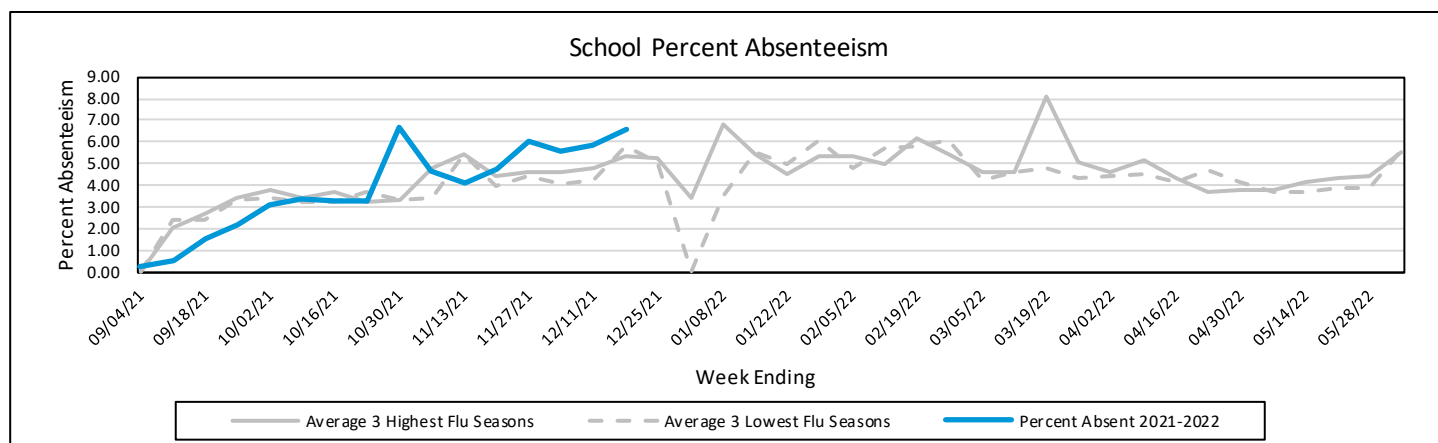
Percent of Emergency Department Visits (Syndromic) Associated with ILI that Resulted in Admission



Percent of Emergency Department Visits Associated with ILI by Age Group

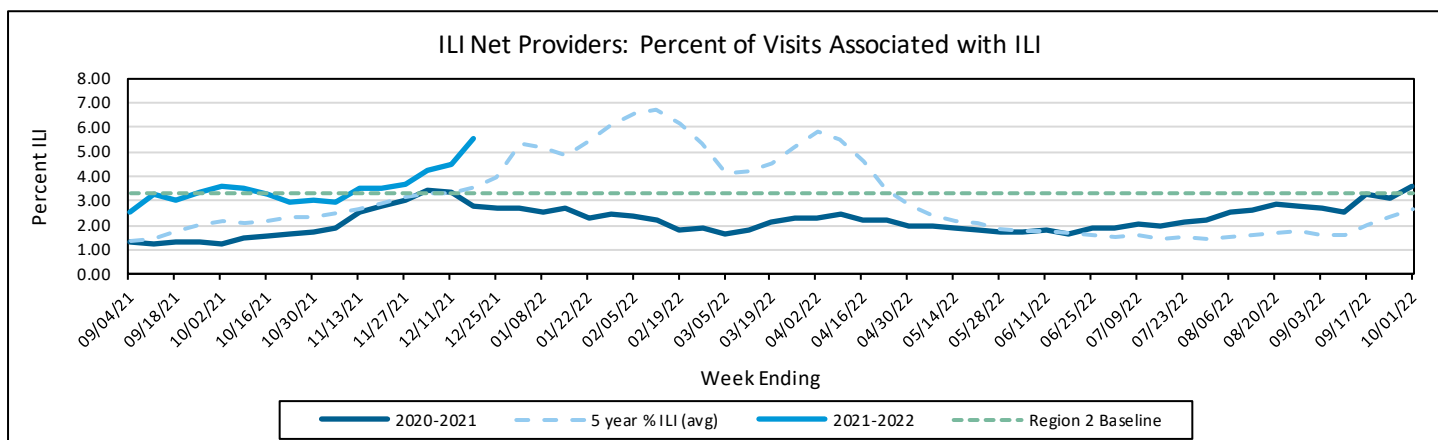


## 6d. School Absenteeism



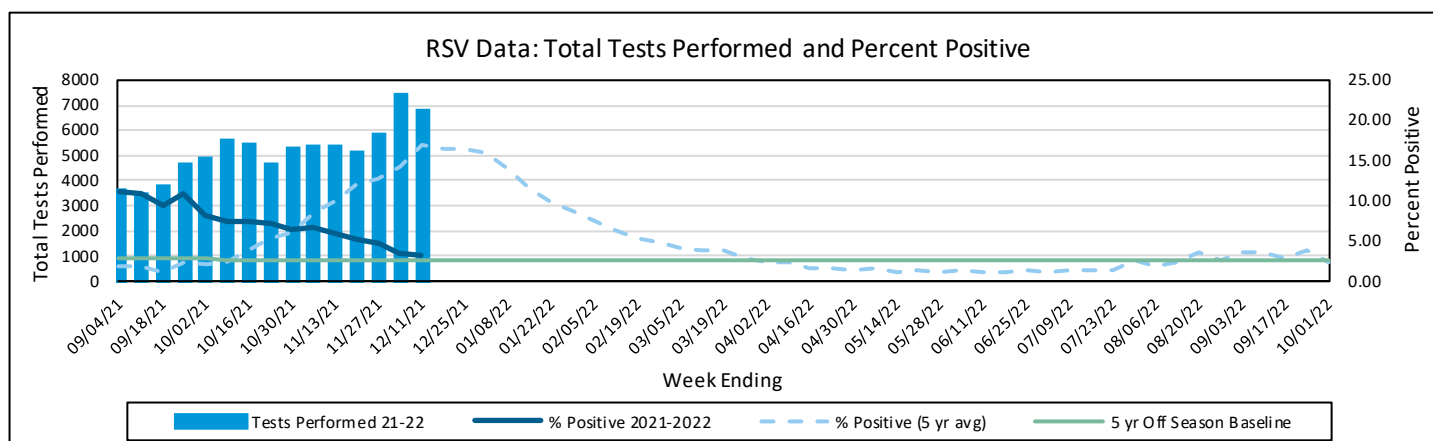
## 7. ILI Net Providers

The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) monitors outpatient visits for influenza-like illness (ILI), not laboratory-confirmed influenza, and may capture visits due to other respiratory pathogens, such as SARS-CoV-2, that present with similar symptoms.

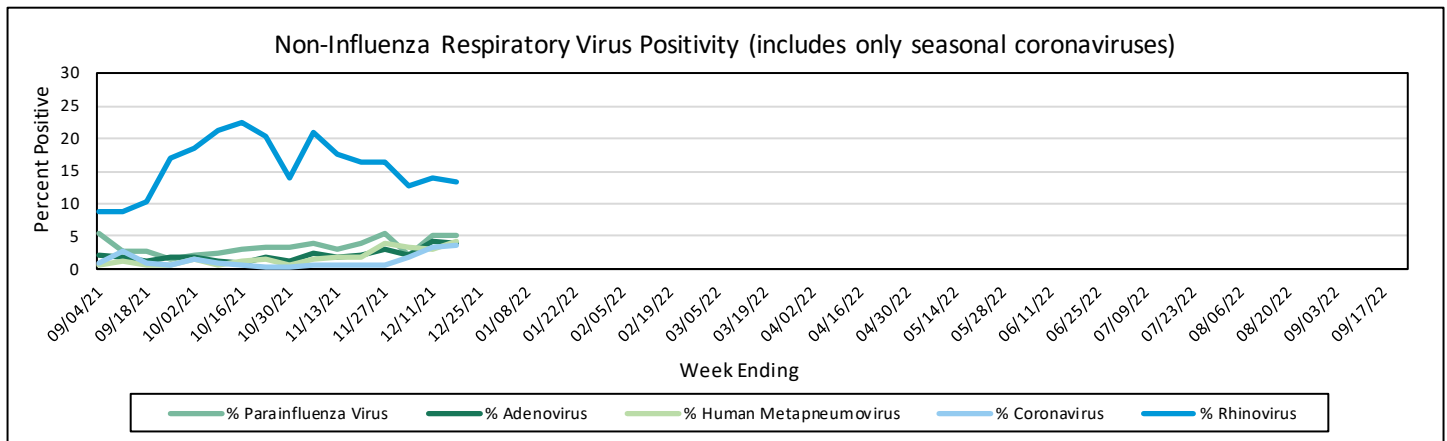
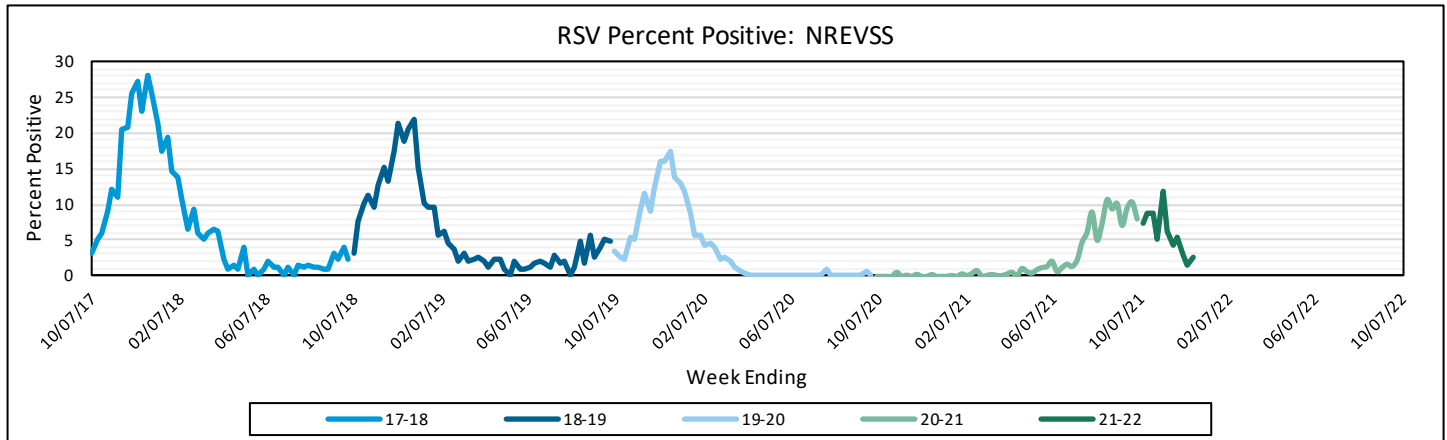


## 8. Non-Influenza Viral Respiratory Surveillance

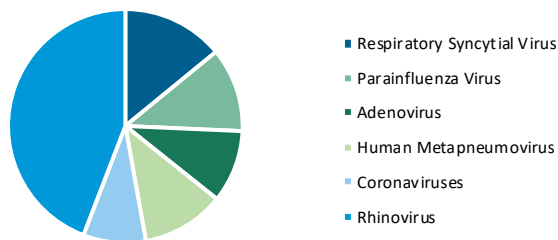
The National Respiratory and Enteric Virus Surveillance System (NREVSS) is a laboratory-based surveillance system and participating laboratories report the total number of tests performed and the total positive for a number of non-influenza respiratory viruses. Information about the CDC NREVSS system can be found at: <https://www.cdc.gov/surveillance/nrevss/labs/index.html>. Respiratory syncytial virus data are acquired from facilities reporting via the National Respiratory and Enteric Virus Surveillance System (NREVSS) or CDRSS ILI module. The RSV season is based upon the 5-year average of percent positivity and runs from the two consecutive weeks where percent positivity is at or above 10% through two consecutive weeks where it is below 10%. Off season for this report is determined to be week 7-45 (February through November) and the baseline is determined by averaging the percent positivity from the 5 year average during those weeks.



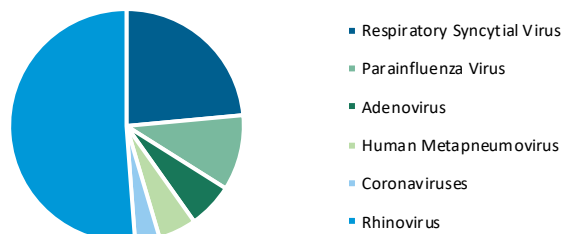
## 8. Non-Influenza Viral Respiratory Surveillance (continued)



Non-Influenza Respiratory Virus: Number of Positive Results in the Past Three Weeks by Virus



Non-Influenza Respiratory Virus: Number of Positive Results Cumulative to Date by Virus



## Influenza Activity Level—Definitions for Public Health Regions

NJ Level	Definition		
	ILI Activity/Outbreaks		Lab Activity
<b>Low</b>	Low ILI activity detected OR one lab confirmed outbreak anywhere in the region	AND	Sporadic isolation of laboratory confirmed influenza anywhere in the region
<b>Moderate</b>	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 the same counties of the region with increased ILI
<b>High</b>	Increased ILI activity in more than half of the counties in the region OR $\geq 3$ 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

For additional information, visit the following websites: <http://nj.gov/health/flu/surveillance/shtml> and <http://www.cdc.gov/flu/>

# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS

## SURVEILLANCE DATE: 12/14/2021



COUNTY	Long Term Care			Schools			Hospital Emergency Dept		
	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
December 14, 2021 12:00 AM MMWR WEEK 50									
ATLANTIC	2	0	0.00	135	75	7.16	4	4	3.60
BERGEN	14	0	0.00	477	316	5.75	6	6	4.75
BURLINGTON	6	0	0.00	264	125	8.04	4	4	3.61
CAMDEN	1	0	0.00	237	138	8.55	7	7	5.33
CAPE MAY	3	0	0.00	50	23	10.92	1	1	4.38
CUMBERLAND	5	0	0.00	68	44	11.59	3	3	3.91
ESSEX	8	1	0.00	354	221	5.99	7	7	5.83
GLOUCESTER	3	0	0.00	117	83	5.37	3	3	6.26
HUDSON	4	0	0.00	257	132	7.20	6	6	6.60
HUNTERDON	4	1	0.00	69	45	6.53	1	1	4.38
MERCER	1	0	0.00	193	106	4.71	5	4	5.87
MIDDLESEX	14	0	0.00	336	191	4.87	6	6	6.35
MONMOUTH	6	0	0.00	342	182	6.62	6	5	5.28
MORRIS	3	0	0.00	241	113	5.64	4	4	4.24
OCEAN	9	1	0.00	316	113	7.86	4	4	3.43
PASSAIC	9	0	0.00	241	124	9.04	3	3	4.90
SALEM	0	0	0.00	40	36	9.82	1	1	7.79
SOMERSET	5	0	0.00	159	75	5.32	1	1	8.00
SUSSEX	3	0	0.00	64	48	11.28	1	1	4.56
UNION	3	0	0.00	315	127	6.36	5	5	6.72
WARREN	6	1	0.00	66	43	9.24	2	2	6.65
NW Region	21	1	0.00	612	328	8.16	10	10	7.07
NE Region	26	1	0.00	1088	669	6.20	19	19	5.69
CW Region	10	1	0.00	421	226	5.13	7	6	6.11
CE Region	32	1	0.00	1309	613	6.07	21	20	5.55
SW Region	10	0	0.00	658	382	7.56	15	15	7.11
SE Region	10	0	0.00	253	142	8.69	8	8	3.79
State Total	109	4	0.00	4341	2360	6.61	80	78	5.34



# NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS

## SURVEILLANCE DATE: 12/14/2021



County	RSV Tests		Rapid Flu Tests		
	# Positive	Total Tests Performed	# Positive	Total Tests Performed	
December 14, 2021 12:00 AM MMWR WEEK 50					
ATLANTIC	0	0	0	0	
BERGEN	10	782	0	0	
BURLINGTON	3	94	0	10	
CAMDEN	0	0	0	0	
CAPE MAY	0	0	0	0	
CUMBERLAND	0	0	0	0	
ESSEX	10	140	14	739	
GLOUCESTER	0	0	0	0	
HUDSON	0	11	3	47	
HUNTERDON	1	438	11	438	
MERCER	2	278	9	278	
MIDDLESEX	9	68	11	144	
MONMOUTH	27	1005	109	2019	
MORRIS	17	744	0	0	
OCEAN	0	0	0	0	
PASSAIC	0	0	0	0	
SALEM	0	0	0	0	
SOMERSET	113	1651	0	0	
SUSSEX	3	384	4	384	
UNION	19	792	0	0	
WARREN	1	200	3	200	
NW Region	21	1328	7	584	
NE Region	20	933	17	786	
CW Region	116	2367	20	716	
CE Region	55	1865	120	2163	
SW Region	3	94	0	10	
SE Region	0	0	0	0	
State Total	215	6587	164	4259	