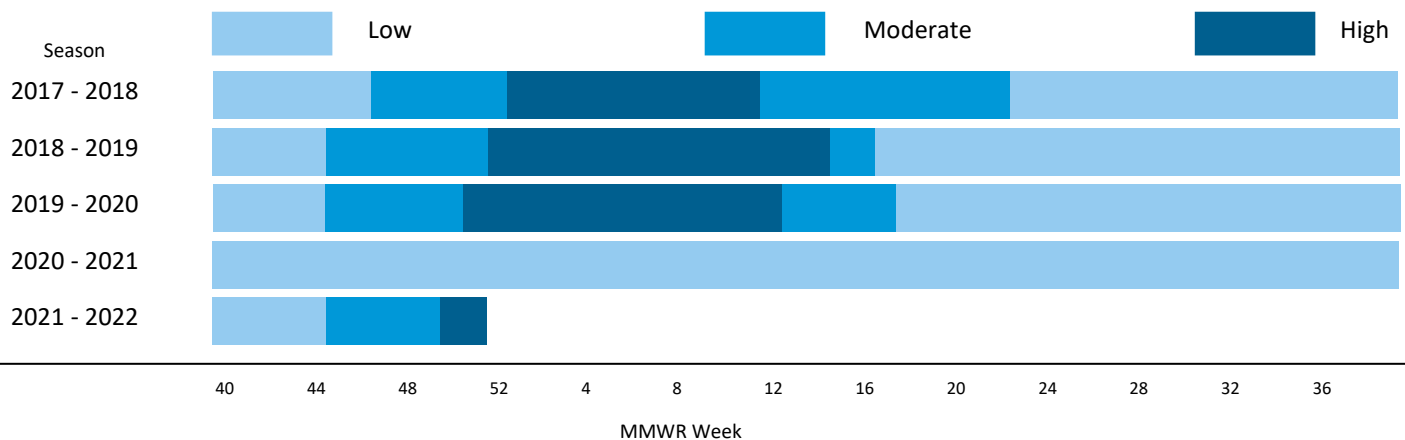


Highlights

- *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 7 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 78.94%, followed by A(H3N2) (19.54%), B (1.43%), and A(H1N1)pdm09 (0.09%)*

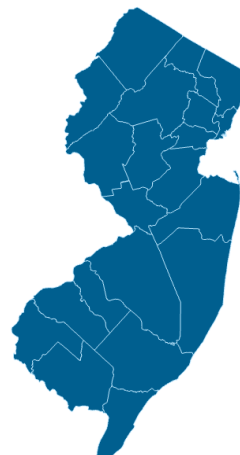
Influenza Activity Level Comparison



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



6,079
Cases reported (PCR & Rapid)

7
Outbreaks (Long Term Care)

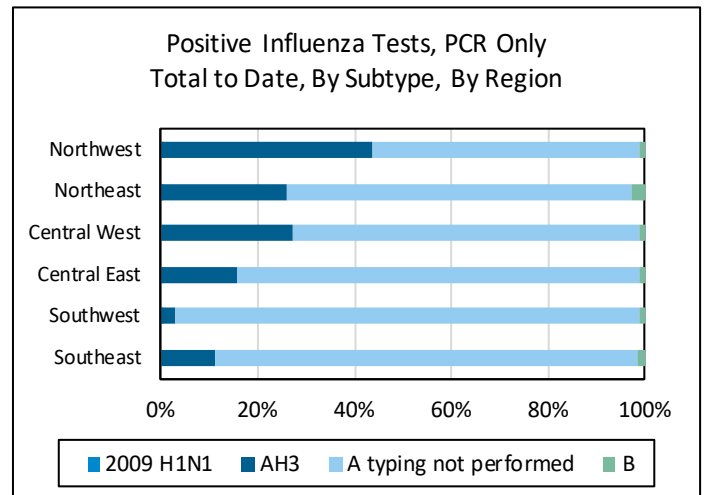
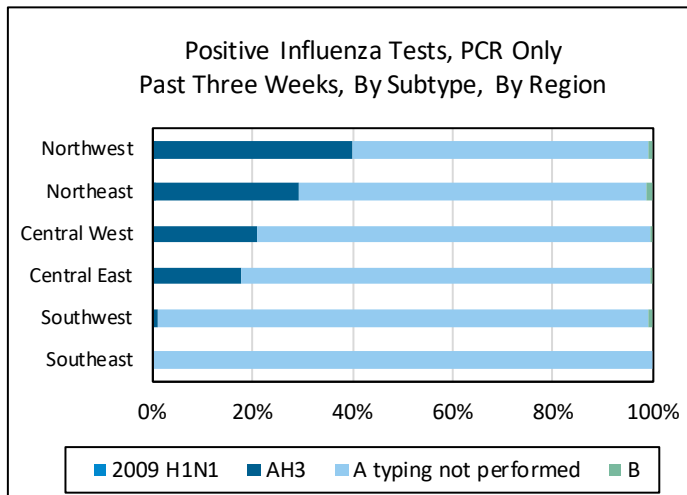
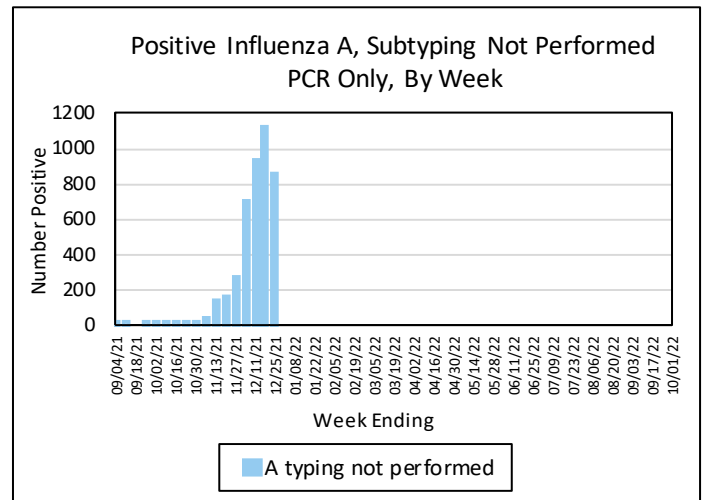
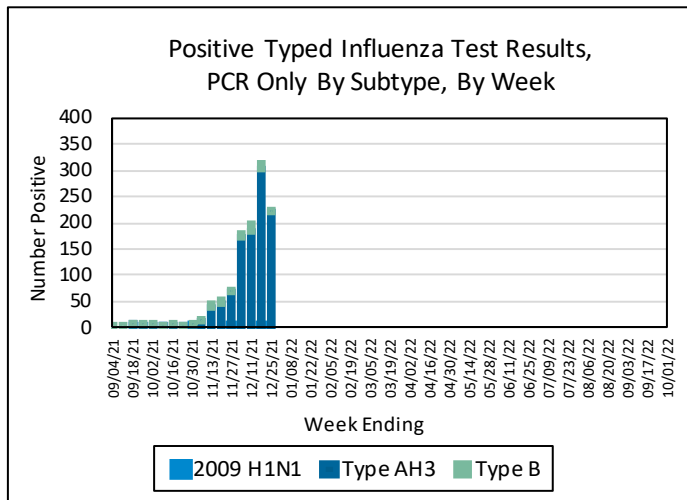
0
Pediatric flu deaths (confirmed)

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.

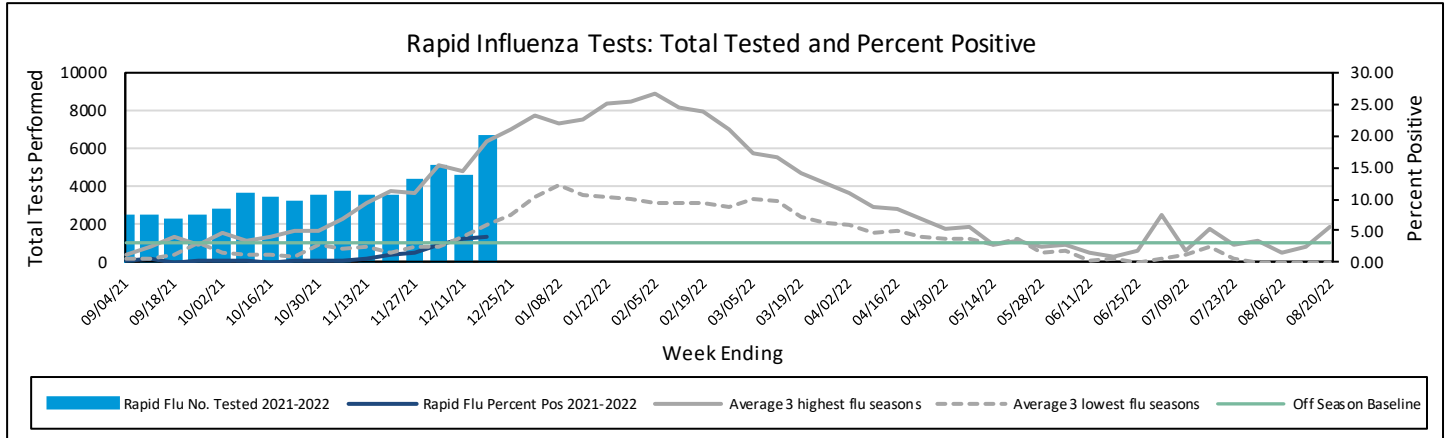
	Test Type	Current Week	Past 3 Weeks	Cumulative Total
PCR	Influenza A (H1N1)pdm09	0	2	5 (0.09%)
	Influenza A H3N2	219	705	1046 (19.54%)
	Influenza A (Subtyping Not Performed)	852	2907	4224 (78.94%)
	Influenza B	5	29	76 (1.43%)
Rapid	Rapid Influenza	267	564	728

3. Virologic Surveillance



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.



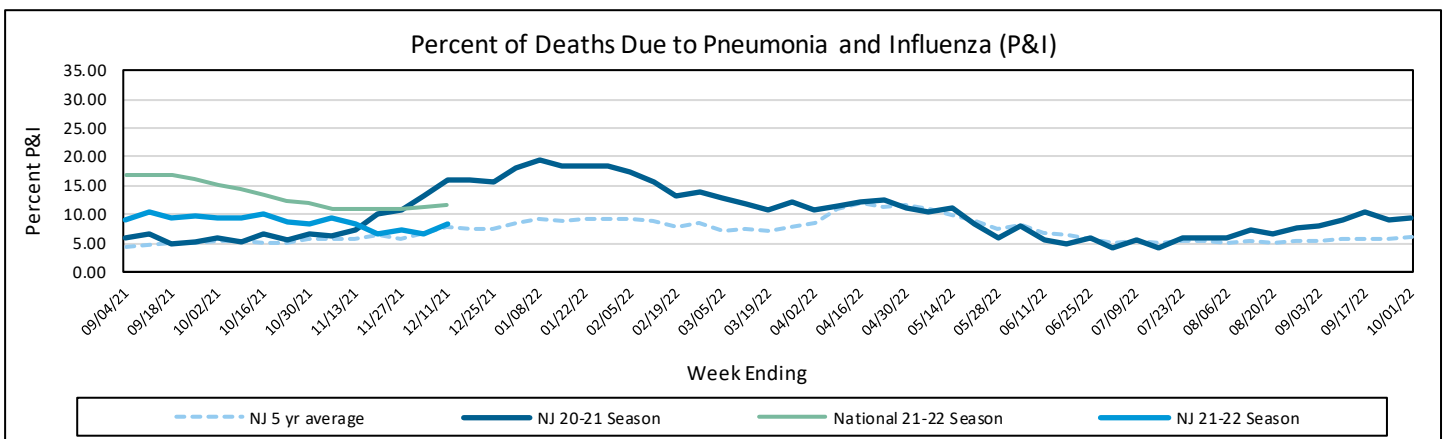
4. Pediatric Influenza Mortality

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)
2017-2018	180	61	5
2018-2019	106	51	6
2019-2020	188	57	2
2020-2021	1	1	0
2021-2022	0	4	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>.

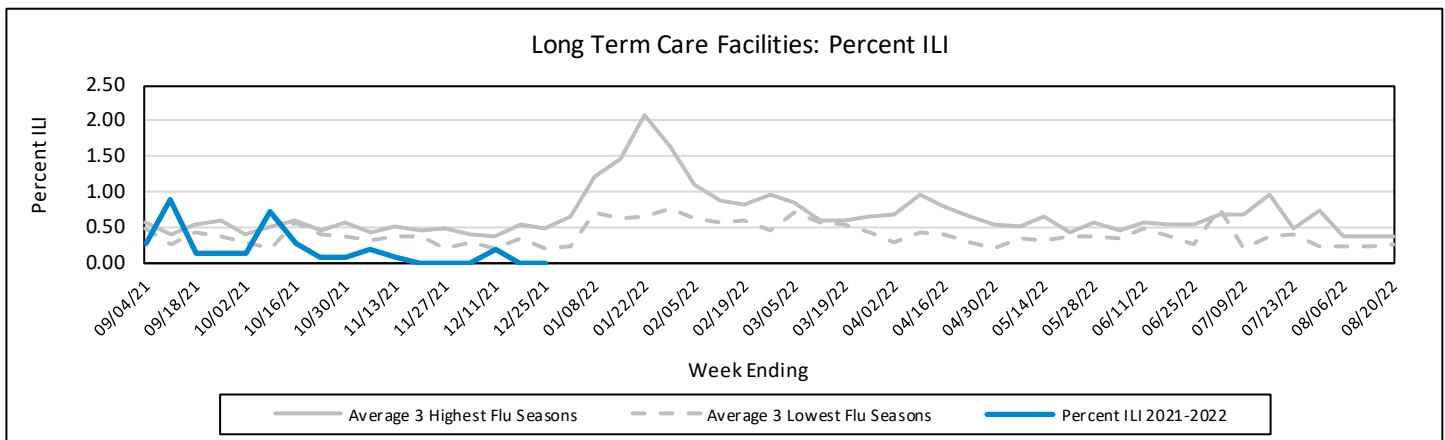


6. ILI Activity

Influenza-like illness (ILI) is defined as fever (> 100°F [37.8°C], oral or equivalent) and cough and/or sore throat. For long term care facilities, fever is defined as 2°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)	0.00	0.09	0.47 (0.42, 0.76)
Emergency Departments	8.40 (3.55, 12.60)	5.34	3.19	1.96 (3.16, 4.33)
Schools (Absenteeism)	9.11 (5.69, 14.38)	6.61	4.44	3.25 (4.30, 4.94)

6a. Long Term Care ILI Activity



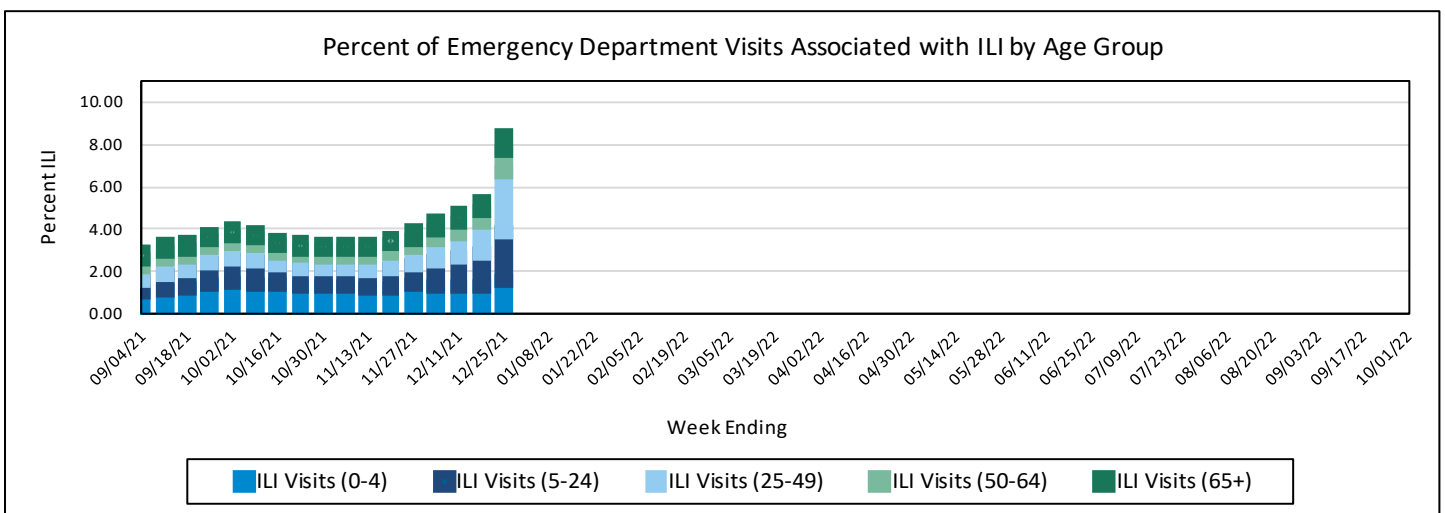
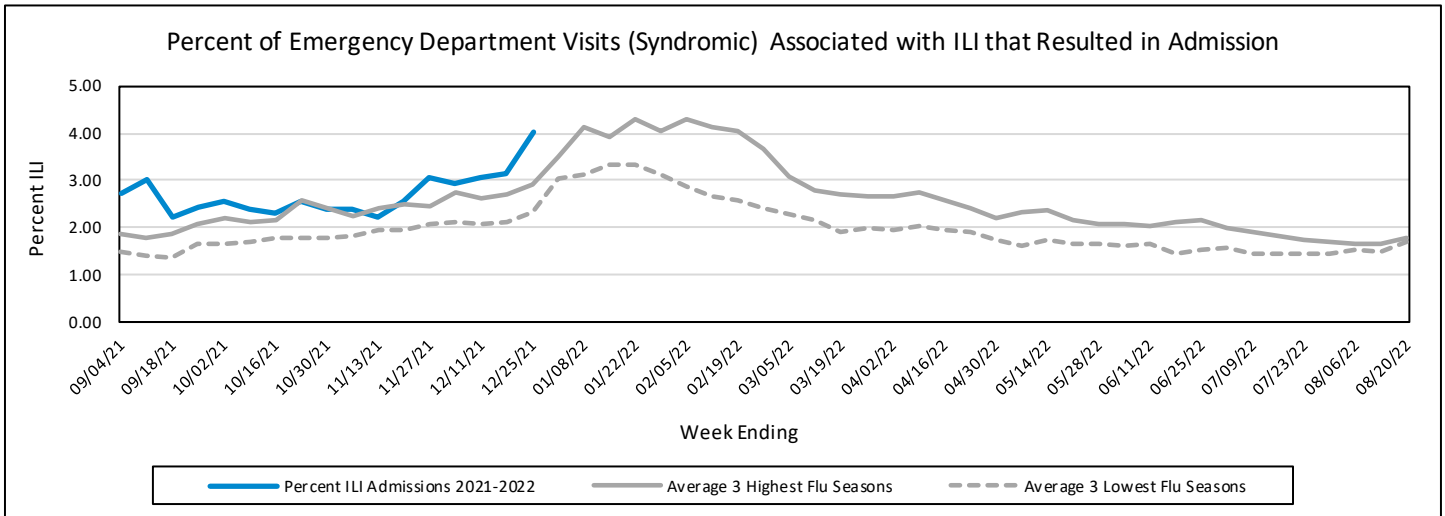
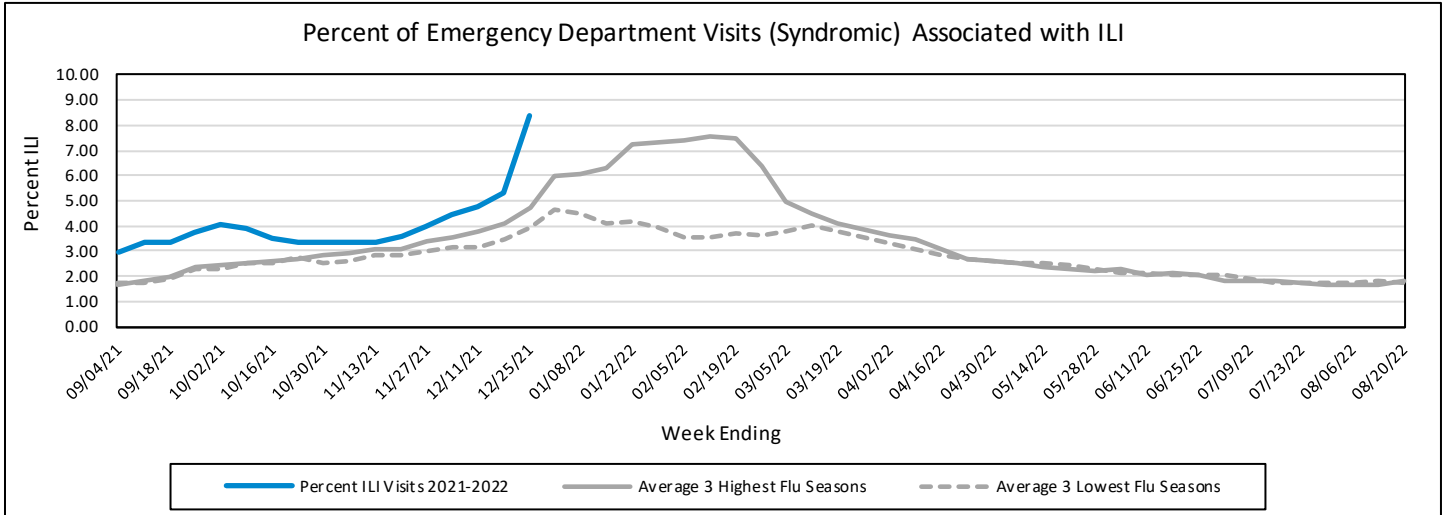
6b. Long Term Care Outbreaks

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.

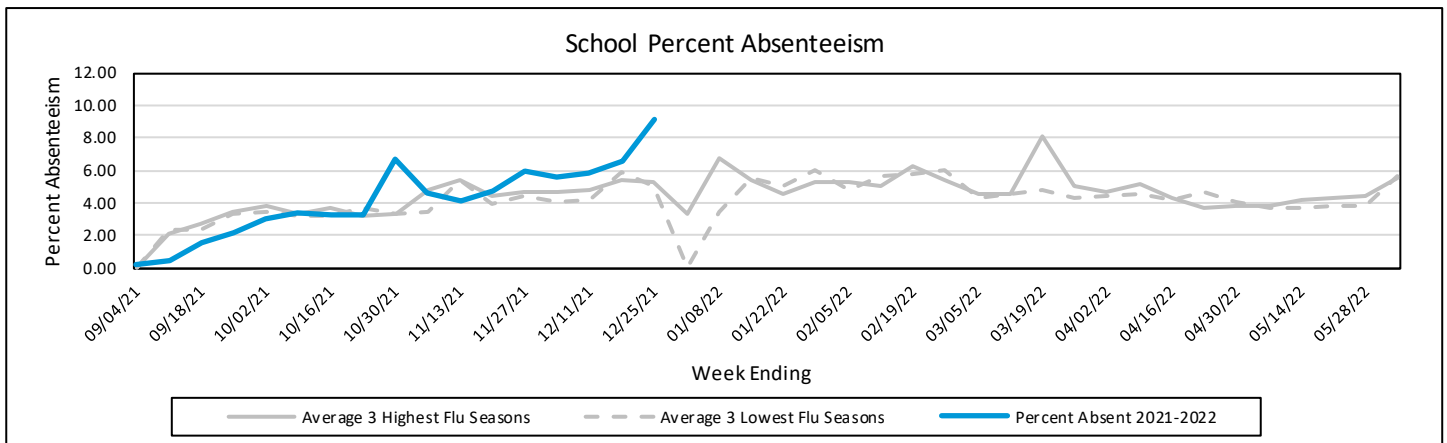
Respiratory Outbreaks in Long Term Care Facilities	
Cumulative Outbreaks 2021-2022 Season	7
No. outbreaks last 3 weeks	4
Regions with recent outbreaks	NW, NE, CW, CE

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.

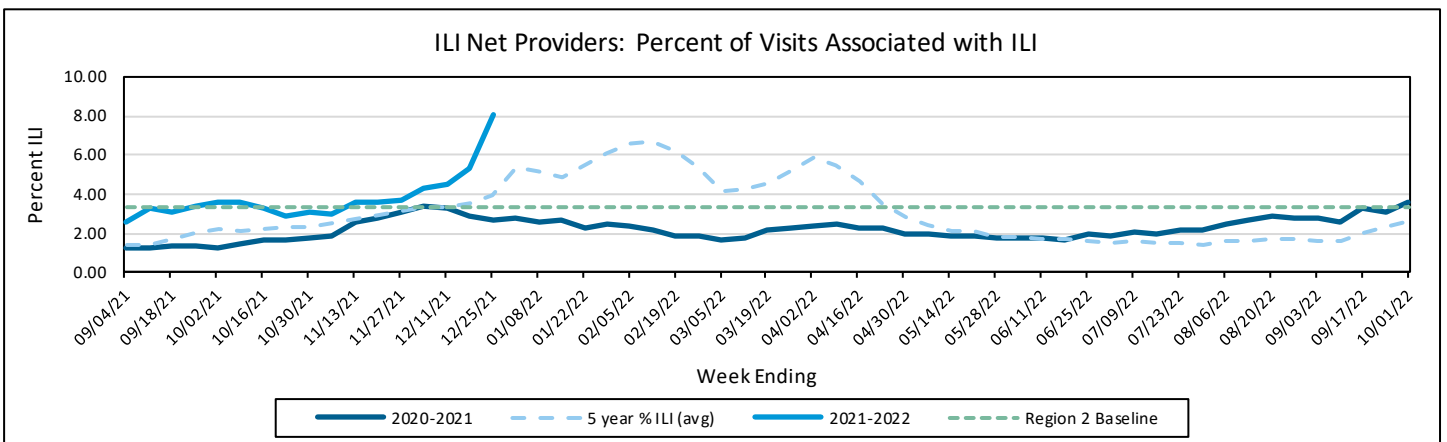


6d. School Absenteeism



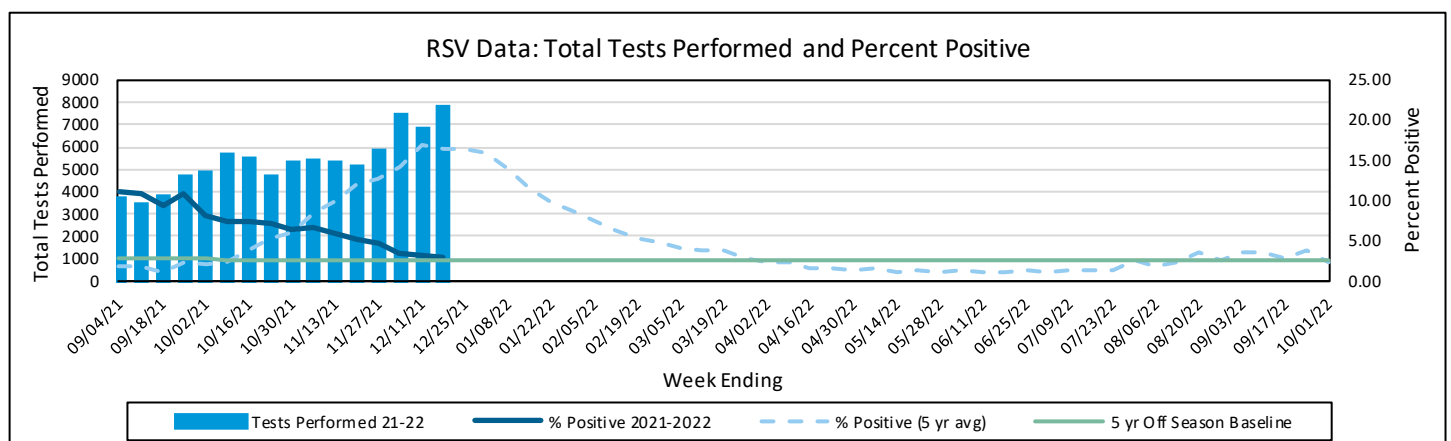
7. ILI Net Providers

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.

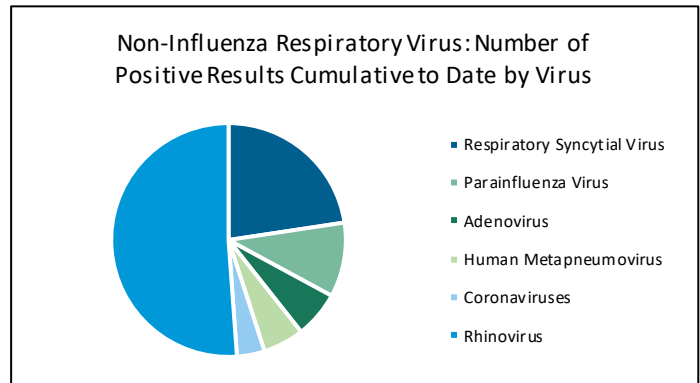
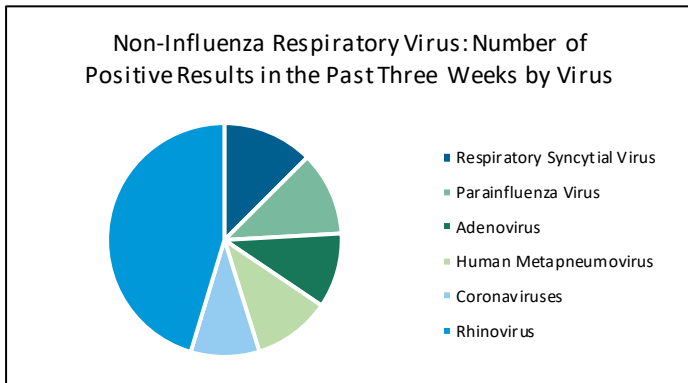
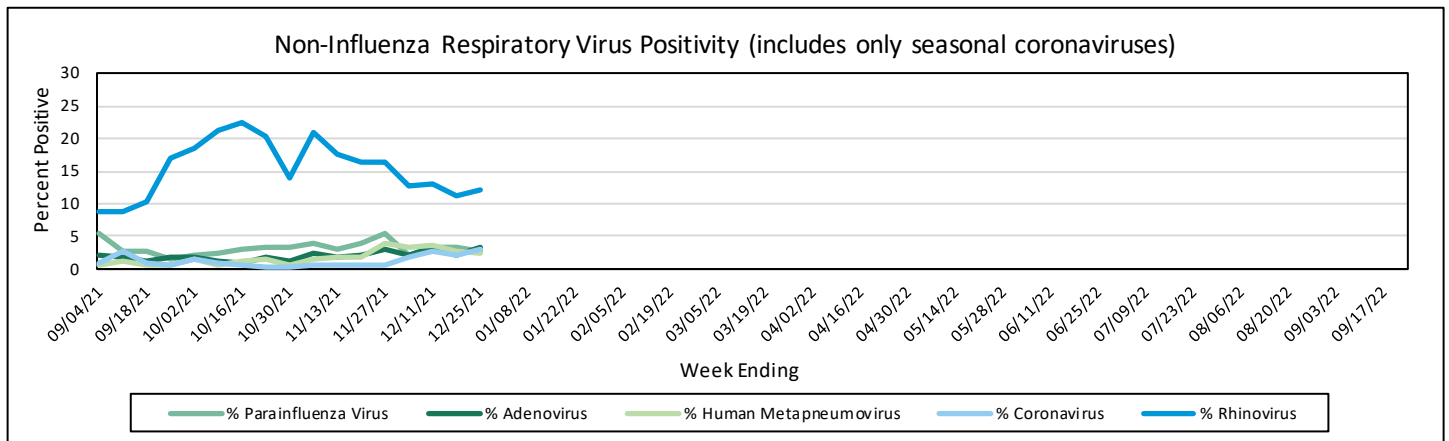
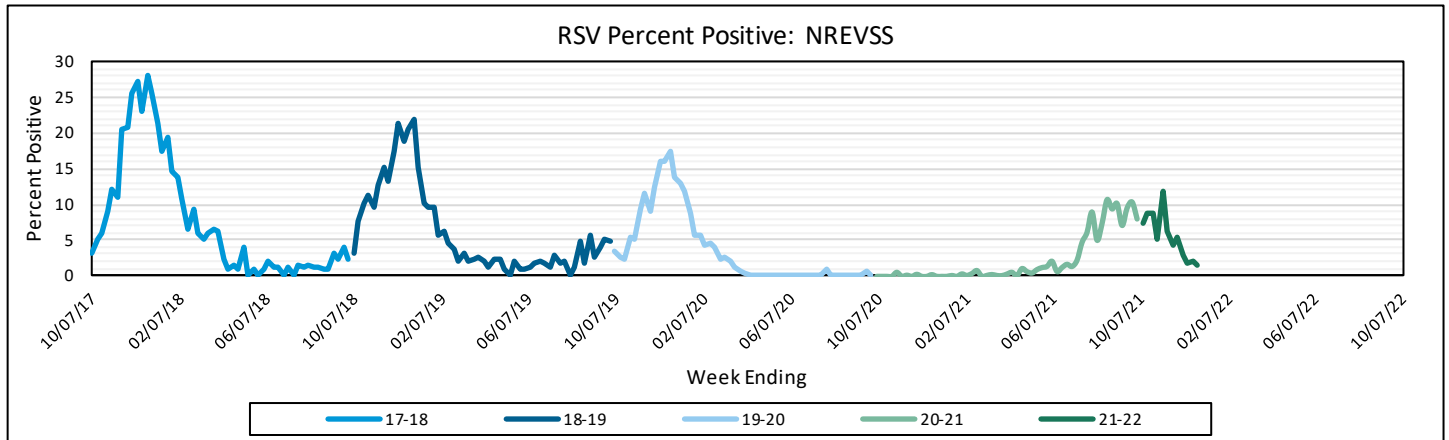


8. Non-Influenza Viral Respiratory Surveillance

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)



Influenza Activity Level—Definitions for Public Health Regions

NJ Level	Definition		
	ILI Activity/Outbreaks		Lab Activity
Low	Low ILI activity detected OR one lab confirmed outbreak 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 the same counties of the region with increased ILI
High	Increased ILI activity in more than half of the counties in the region OR ≥ 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/>

SURVEILLANCE DATE: 12/21/2021



COUNTY	Long Term Care			Schools			Hospital Emergency Dept		
	# Enrolled	# Reports Rec'd	% ILI	# Enrolled	# Reports Rec'd	% Absent	# Enrolled	# Reports Rec'd	% ILI
December 21, 2021 12:00 AM MMWR WEEK 51									
ATLANTIC	2	0	0.00	135	71	8.60	4	4	4.64
BERGEN	14	0	0.00	477	271	9.43	6	6	9.06
BURLINGTON	6	0	0.00	264	113	8.61	4	4	7.17
CAMDEN	1	0	0.00	237	136	9.61	7	7	7.32
CAPE MAY	3	0	0.00	50	16	13.61	1	1	7.51
CUMBERLAND	5	3	0.00	68	43	14.38	3	3	3.55
ESSEX	8	1	0.00	354	200	11.31	7	7	8.39
GLOUCESTER	3	0	0.00	117	76	5.70	3	3	10.31
HUDSON	4	0	0.00	257	123	10.41	6	6	10.98
HUNTERDON	4	2	0.00	69	40	8.87	1	1	3.95
MERCER	1	0	0.00	193	88	5.69	5	4	7.59
MIDDLESEX	14	0	0.00	336	182	5.94	6	6	11.09
MONMOUTH	6	0	0.00	342	150	7.92	6	5	7.65
MORRIS	3	0	0.00	241	109	8.05	4	4	8.65
OCEAN	9	1	0.00	316	113	7.58	4	4	5.36
PASSAIC	9	0	0.00	242	123	13.80	3	3	8.92
SALEM	0	0	0.00	40	34	8.95	1	1	9.86
SOMERSET	5	0	0.00	159	63	7.74	1	1	12.60
SUSSEX	3	0	0.00	64	46	12.54	1	1	7.36
UNION	3	0	0.00	315	118	13.25	5	5	9.98
WARREN	6	1	0.00	66	40	13.56	2	2	9.35
NW Region	21	1	0.00	613	318	11.72	10	10	11.62
NE Region	26	1	0.00	1088	594	10.41	19	19	9.17
CW Region	10	2	0.00	421	191	6.75	7	6	8.23
CE Region	32	1	0.00	1309	563	7.83	21	20	8.84
SW Region	10	0	0.00	658	359	8.19	15	15	9.94
SE Region	10	3	0.00	253	130	10.51	8	8	4.58
State Total	109	8	0.00	4342	2155	9.11	80	78	8.40

NJ ACTIVE INFLUENZA-LIKE ILLNESS SURVEILLANCE STATISTICS

SURVEILLANCE DATE: 12/21/2021



County	RSV Tests		Rapid Flu Tests	
	# Positive	Total Tests Performed	# Positive	Total Tests Performed
December 21, 2021 12:00 AM MMWR WEEK 51				
ATLANTIC	11	615	27	821
BERGEN	21	721	0	0
BURLINGTON	2	95	0	0
CAMDEN	0	0	0	0
CAPE MAY	0	0	0	0
CUMBERLAND	0	0	0	0
ESSEX	9	166	36	1358
GLOUCESTER	0	0	0	0
HUDSON	1	6	3	56
HUNTERDON	10	482	12	482
MERCER	2	709	11	709
MIDDLESEX	3	73	15	168
MONMOUTH	28	1042	152	2174
MORRIS	11	794	0	0
OCEAN	0	0	0	0
PASSAIC	5	410	0	2
SALEM	0	0	0	0
SOMERSET	117	1925	0	0
SUSSEX	1	371	4	371
UNION	0	0	0	0
WARREN	3	209	7	209
NW Region	20	1784	11	582
NE Region	31	893	39	1414
CW Region	129	3116	23	1191
CE Region	31	1115	167	2342
SW Region	2	95	0	0
SE Region	11	615	27	821
State Total	224	7618	267	6350