Weekly Influenza & Respiratory Illness Activity Report

Week Ending Oct. 8, 2022 | WEEK 40

A summary of influenza surveillance indicators prepared by the Division of Infectious Disease Epidemiology Prevention & Control.
All data are preliminary and may change as more information is received.

Minnesota Influenza Key Statistics	
Percent of molecular laboratory tests positive	0.5%
Hospitalizations	3
Most common strain	Influenza A/ Unknown
School outbreaks	1
Long-term care outbreaks	0

Contents

Minnesota Influenza Surveillance (www.health.state.mn.us/diseases/flu/stats/)
Weekly U.S. Influenza Surveillance Report (www.cdc.gov/flu/weekly/)
World Health Organization (WHO) Surveillance (www.who.int/influenza/surveillance_monitoring/updates/en/)
Neighboring states' influenza information:
- Iowa: Iowa Flu Reports (idph.iowa.gov/influenza/reports)
- Wisconsin: Influenza (Flu) (www.dhs.wisconsin.gov/communicable/influenza/)
- North Dakota: Reported Seasonal Influenza Activity in North Dakota (www.ndflu.com/default.aspx)
- South Dakota: South Dakota Influenza Information (doh.sd.gov/diseases/infectious/flu/)

Due to the COVID-19 pandemic, CDC and MDH will not be posting the weekly geographic spread indicators (no activity, sporadic, local, regional, widespread) this season as they rely on influenza-like illness data (ILI). Because these data are based on symptoms, the cause of ILI cannot reliably be attributed to influenza while COVID-19 is widely circulating.

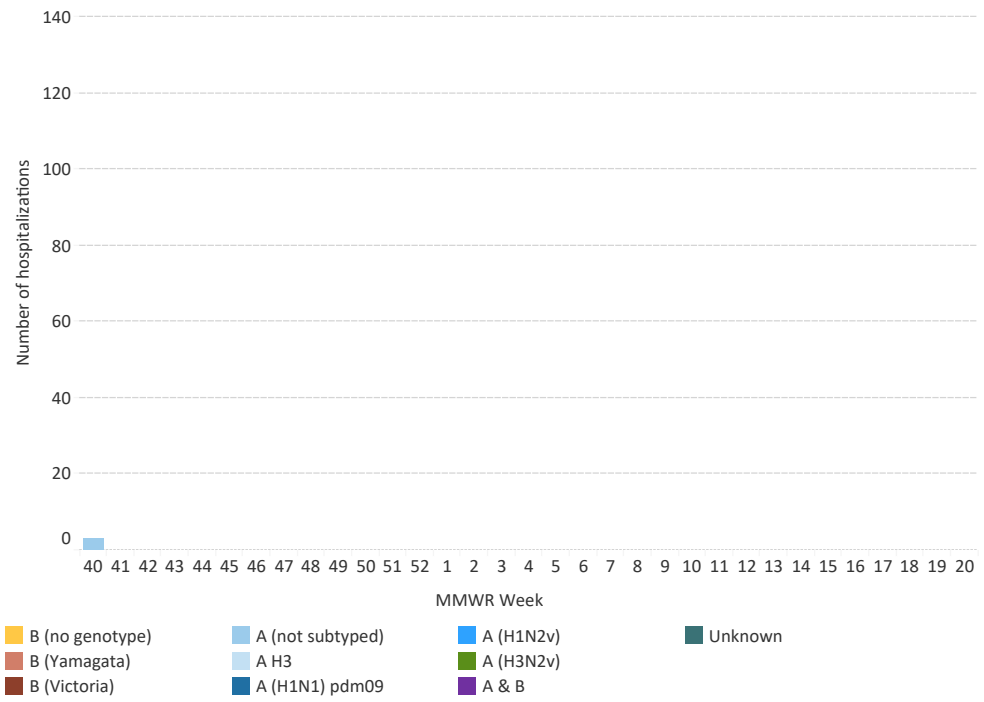
DEPARTMENT OF HEALTH

Minnesota Department of Health
651-201-5414 or 1-877-676-5414
www.health.state.mn.us

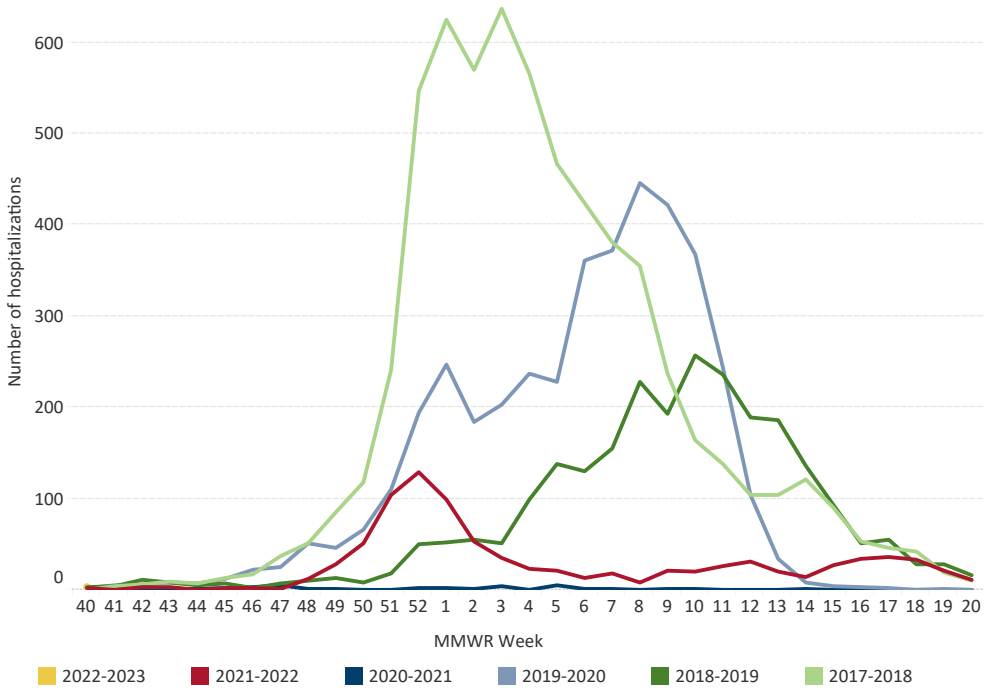
Hospitalized Influenza Surveillance

Hospitalized influenza cases are based on disease reports of laboratory-positive influenza (via DFA, IFA, viral culture, EIA, rapid test, paired serological tests or RT-PCR) and specimens from hospitalized patients with acute respiratory illness submitted to MDH-PHL by hospitals and laboratories. Due to the need to confirm reports and reporting delays, consider current week data preliminary.

Hospitalized Influenza Cases by Type, Minnesota (FluSurv-NET*)



Hospitalized Influenza Cases by Season, Minnesota (FluSurv-NET*)



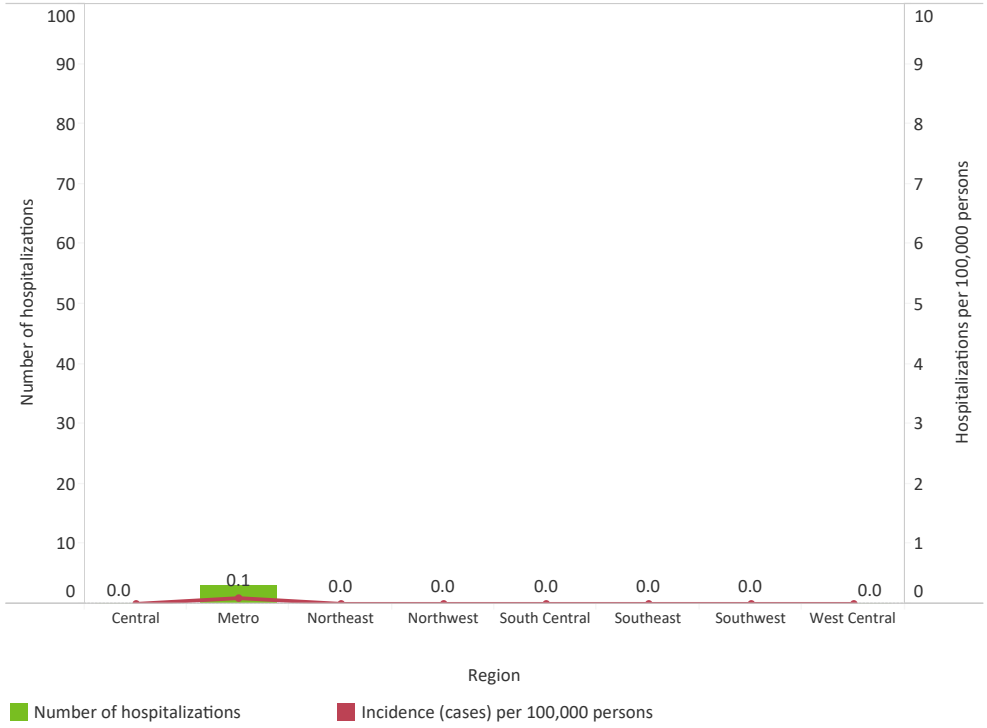
Hospitalizations this week	Hospitalizations last week	Total hospitalizations (to date)
3	--	3

Season	Total hospitalizations (historic)
2017-2018	6446
2018-2019	2543
2019-2020	4022
2020-2021	35
2021-2022	901
2022-2023 (to date)	**3 (to date)**

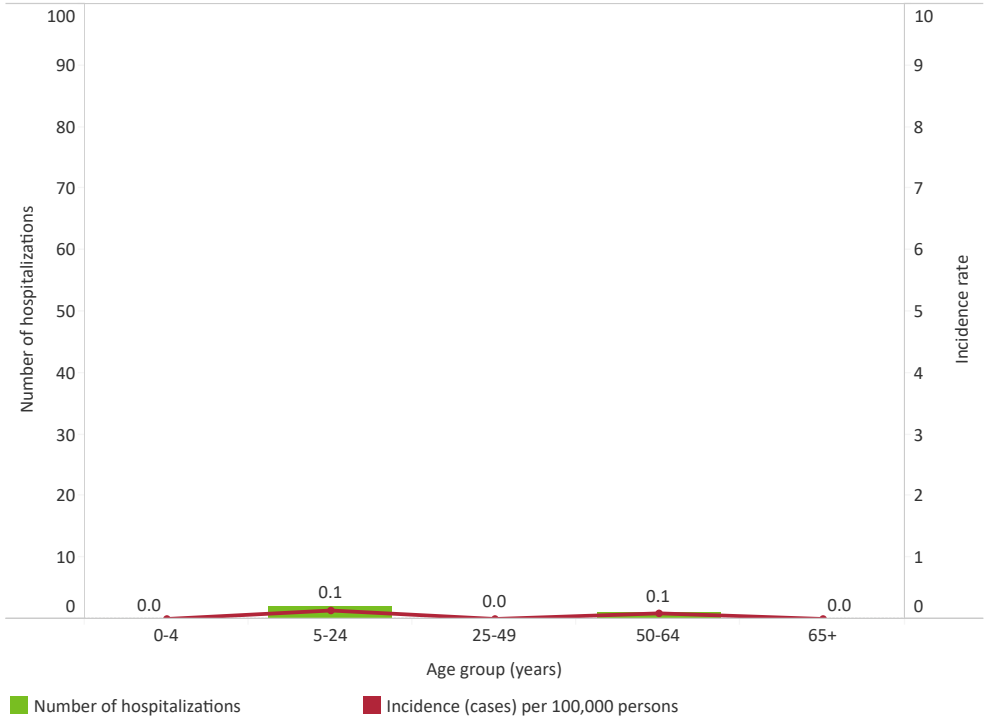
*FluSurv-NET = Influenza Surveillance Network

Hospitalized Influenza Surveillance (continued)

Number of Influenza Hospitalizations and Incidence by Region, Minnesota



Number of Influenza Hospitalizations and Incidence by Age, Minnesota



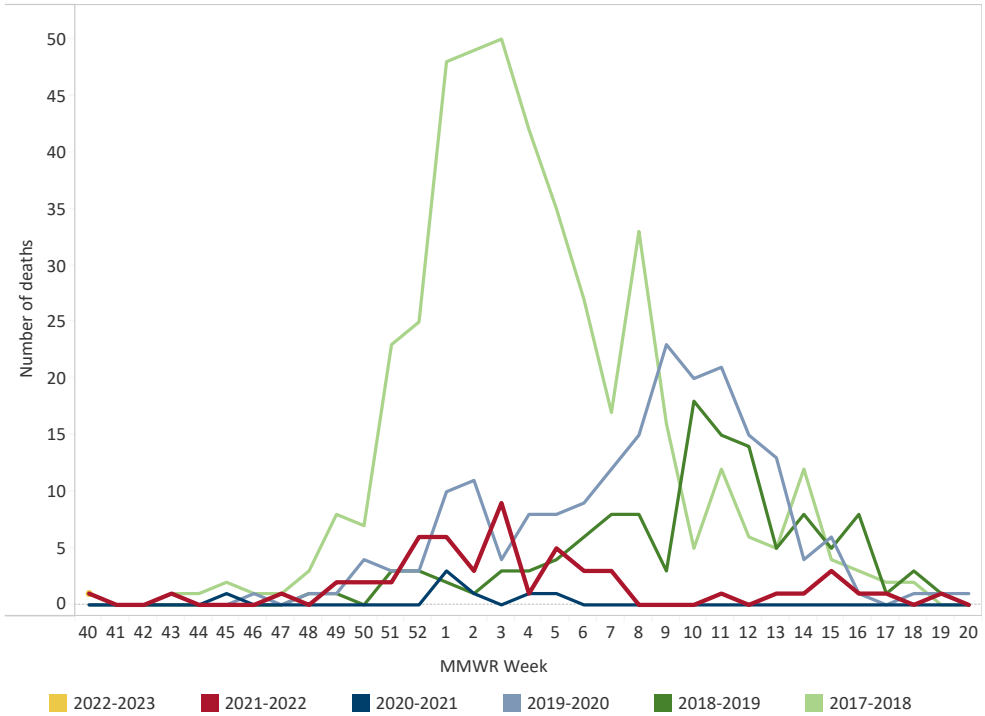
Region	Hospitalizations this week	Total (to date)	% Hospitalizations this week	% Total (to date)
Central	0	0	0%	0%
Metro	3	3	100%	100%
Northeast	0	0	0%	0%
Northwest	0	0	0%	0%
South Central	0	0	0%	0%
Southeast	0	0	0%	0%
Southwest	0	0	0%	0%
West Central	0	0	0%	0%

Median age (years) at time of admission
13.0

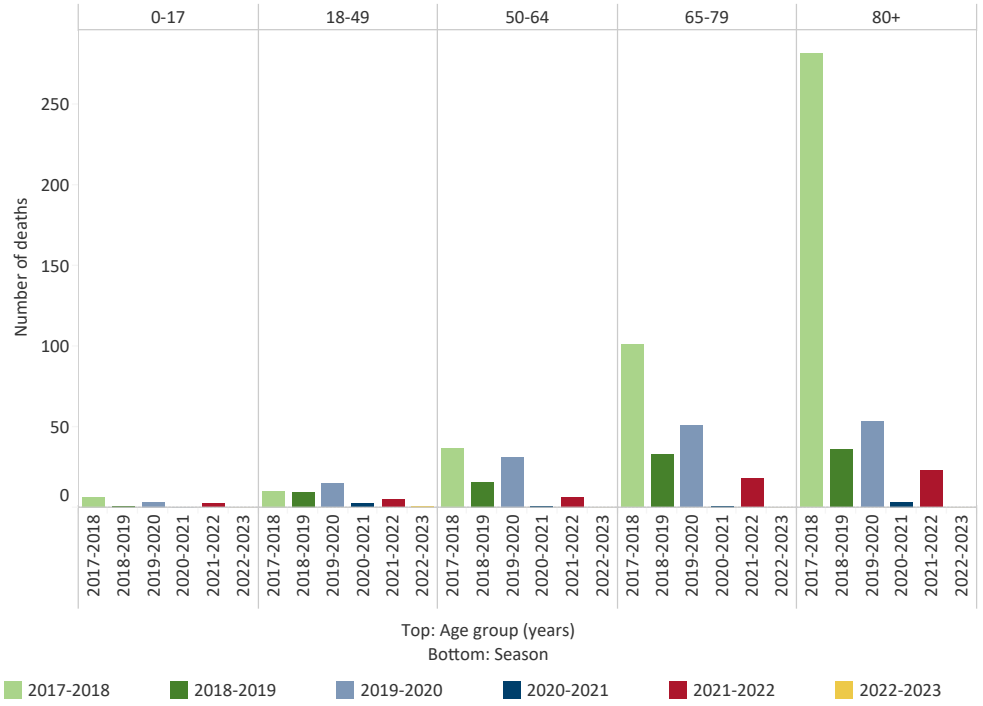
Influenza-Associated Death Surveillance

Influenza deaths are collected via reports from Minnesota's death certificate database, hospitals, and long-term care facilities. Decedents with influenza listed as a cause of or contributor to death, have recent laboratory confirmation of influenza, or are part of an ongoing influenza outbreak at a long-term care facility are reported to influenza surveillance. Due to the need to confirm reports and reporting delays, consider current week data preliminary.

Deaths Associated with Influenza by Season, Minnesota



Deaths Associated with Influenza by Age Group and Season, Minnesota



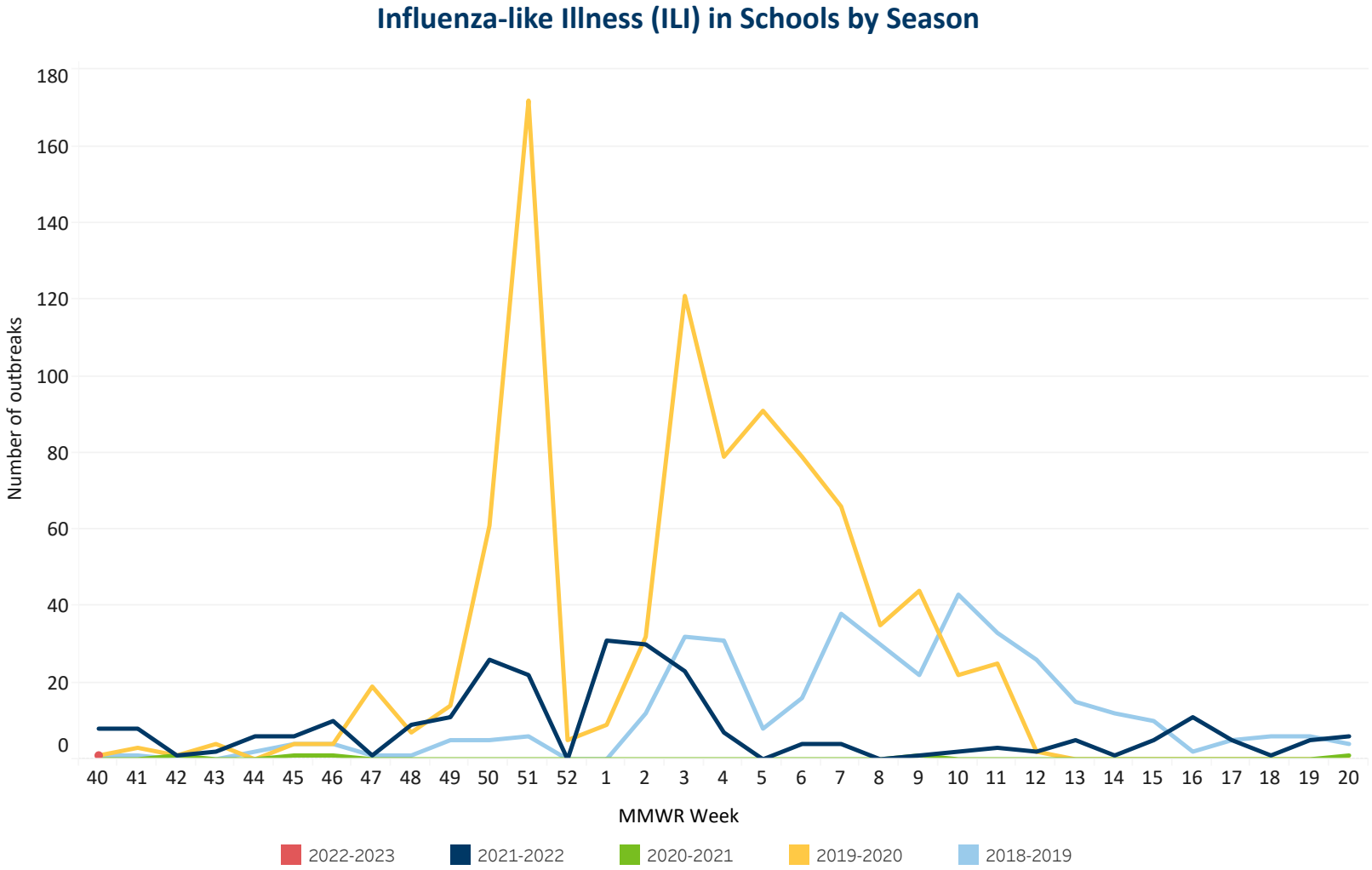
Season	Total deaths (historic)	Total pediatric (<18 years) deaths (historic)
2017-2018	440	6
2018-2019	126	1
2019-2020	197	3
2020-2021	7	0
2021-2022	54	2
2022-2023 (to date)	**1**	**0**

*FluSurv-NET = Influenza Surveillance Network

Season	Median age (years) at time of death
2017-2018	85
2018-2019	75
2019-2020	73
2020-2021	76
2021-2022	76.5
2022-2023 (to date)	---

Respiratory Disease Outbreak Surveillance: School Outbreaks

K-12 schools report an outbreak of influenza-like illness (ILI) when the number of students absent with ILI reaches 5% of total enrollment or three or more students with ILI are absent from the same elementary classroom.

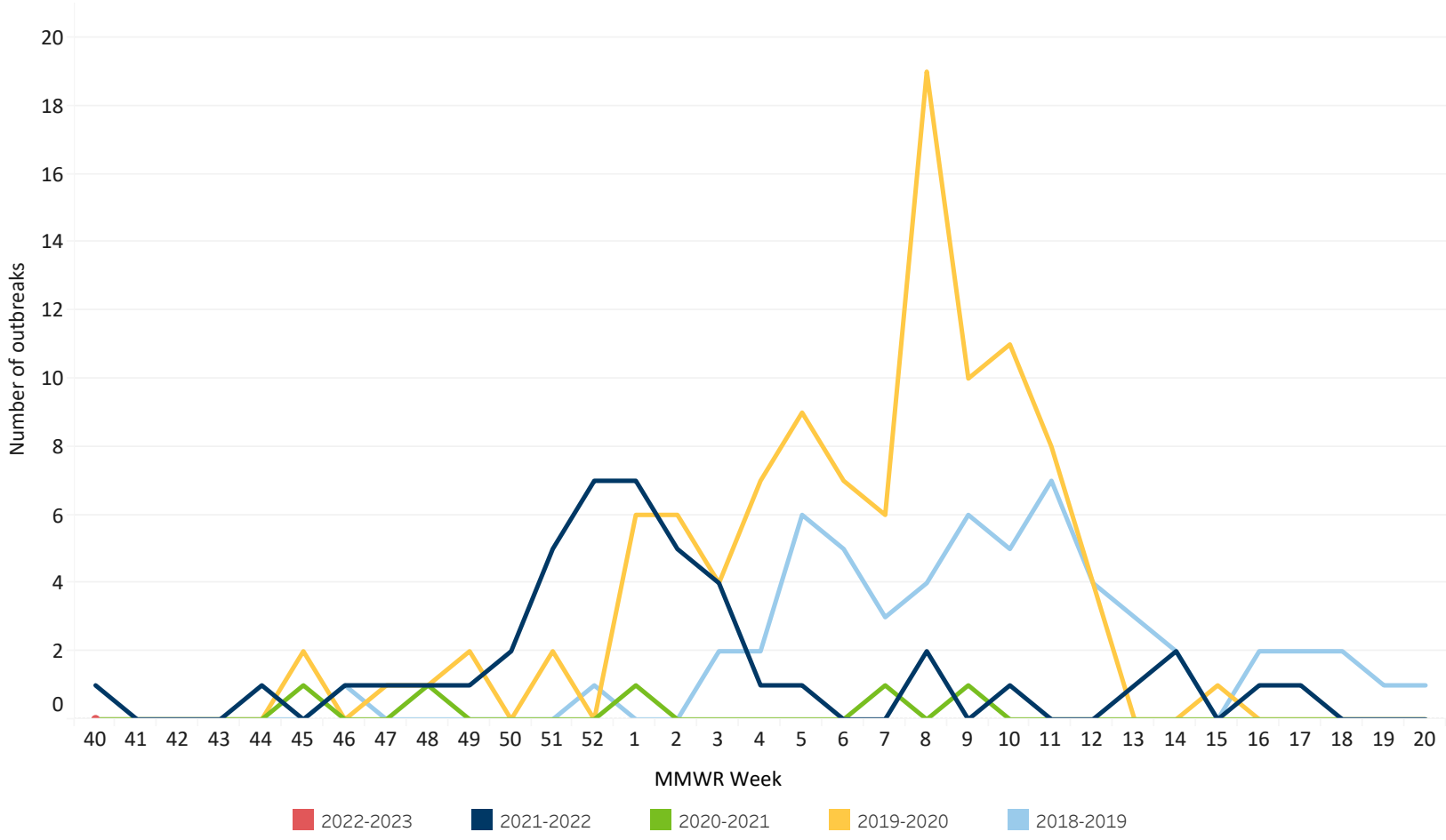


New school outbreaks this week	New school outbreaks last week	Total this season (to date)
1	--	1

Respiratory Disease Outbreak Surveillance: LTC Outbreaks

Long-Term Care (LTC) facilities report to MDH when they suspect an outbreak of influenza in their facility. Laboratory-confirmed outbreaks are reported here.

Confirmed Influenza Outbreaks in LTC by Season

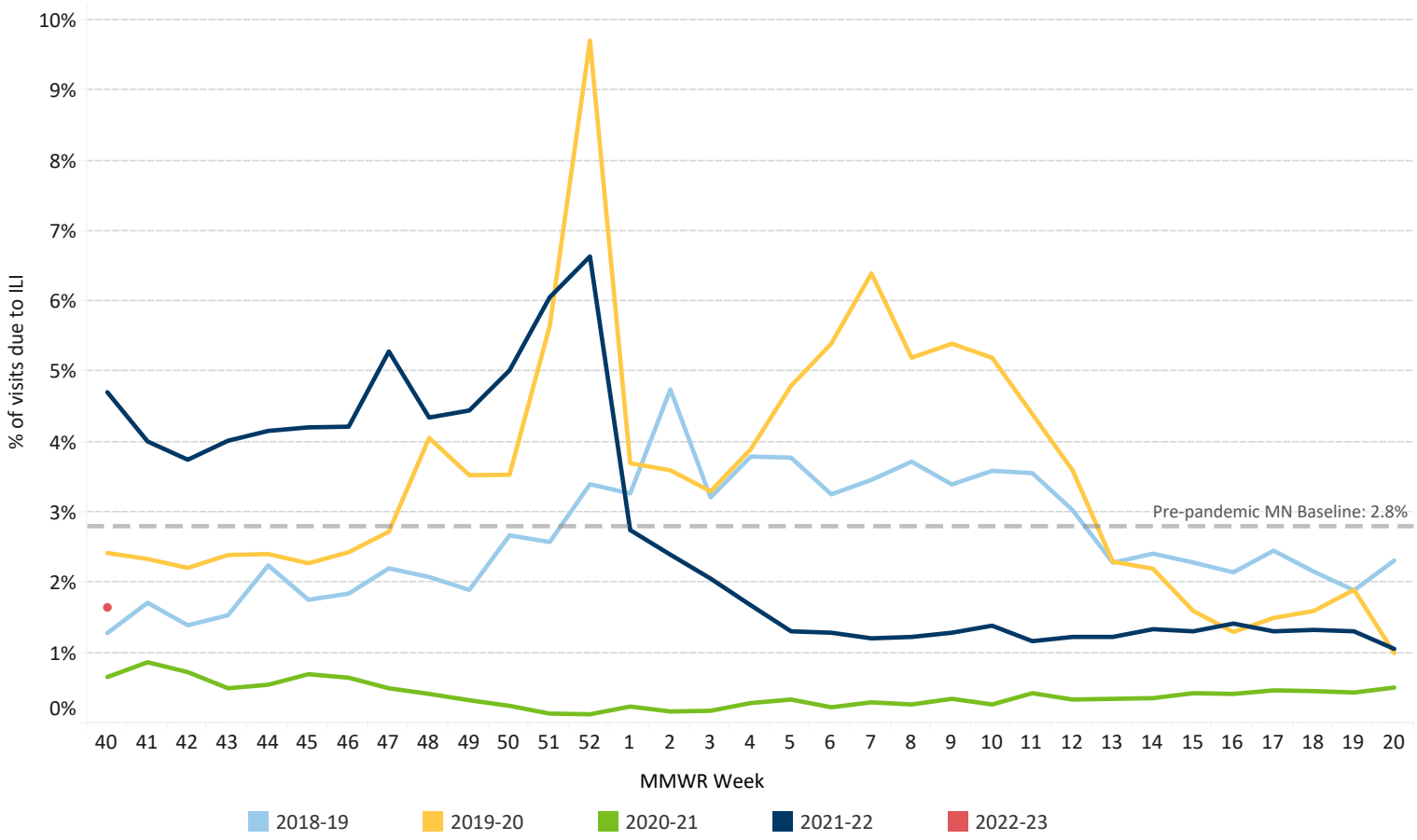


New LTC outbreaks this week	New LTC outbreaks last week	Total this season (to date)
0	--	0

Sentinel Provider Surveillance (Outpatients)

MDH collaborates with healthcare providers who report the total number of patients seen and the total number of those patients presenting to outpatient clinics with influenza-like illness.

Percentage of Persons Presenting to Outpatient Clinics with Influenza-Like Illness (ILI)



* Indicates current week-data may be delayed by 1 or more weeks

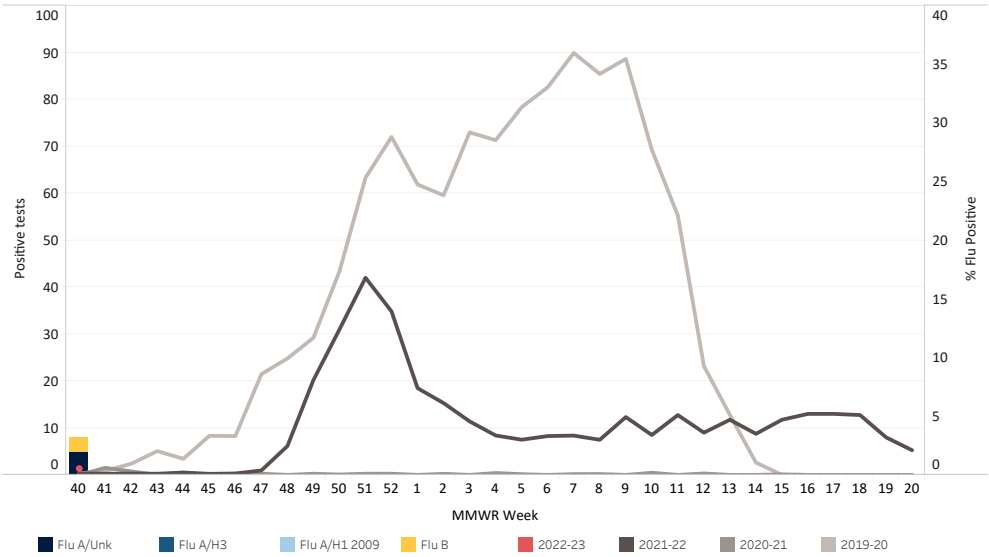
‡ MN Baseline valid for 2020-21 season only, do not compare it with previous seasons. The baseline is calculated by averaging the ILI percent for non-influenza weeks over the previous four seasons and adding two standard deviations. Non-influenza weeks account for less than 2% of the season's total flu-positive specimens tested at Public Health Labs in HHS Region 5. Weeks where ILI % is above baseline reflect weeks with excess health care visits due to ILI.

% of outpatients with ILI this week	% of outpatients with ILI last week
1.60%	--

Laboratory Surveillance

The MN Lab System (MLS) Laboratory Influenza Surveillance Program is made up of more than 310 clinic- and hospital-based laboratories, voluntarily submitting testing data weekly. These laboratories perform rapid testing for influenza and Respiratory Syncytial Virus (RSV). Significantly fewer labs perform PCR testing for influenza and three also perform PCR testing for other respiratory viruses. MDH-PHL provides further characterization of submitted influenza isolates to determine the hemagglutinin serotype to indicate vaccine coverage. Tracking the laboratory results assists healthcare providers with patient diagnosis of influenza-like illness and provides an indicator of the progression of the influenza season as well as prevalence of disease in the community.

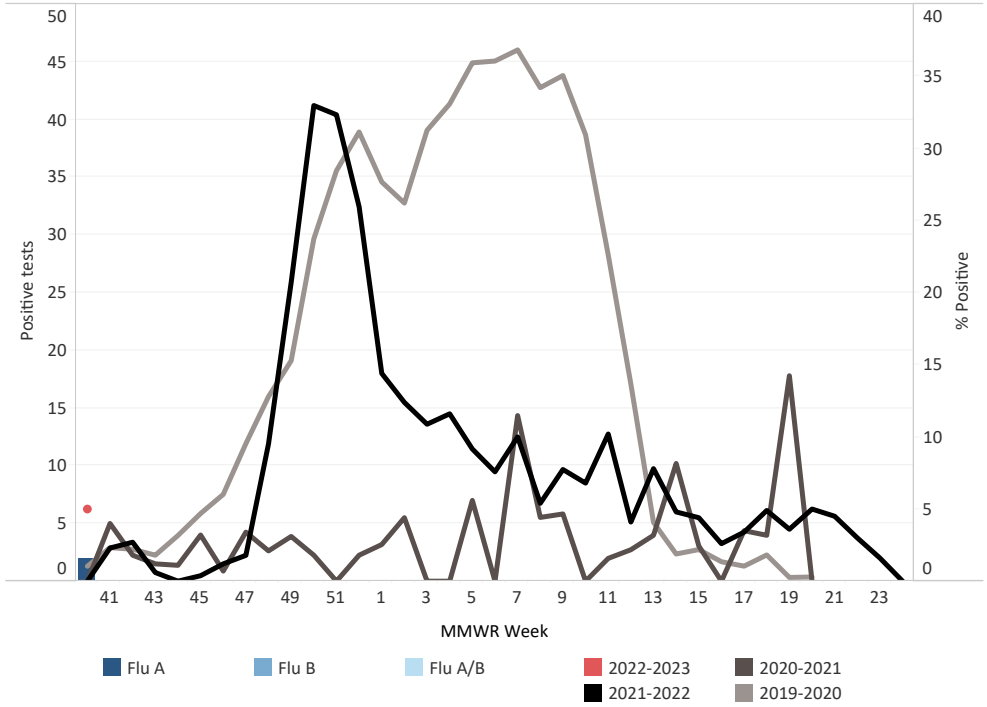
Specimens Positive for Influenza by Molecular Testing*, by Week



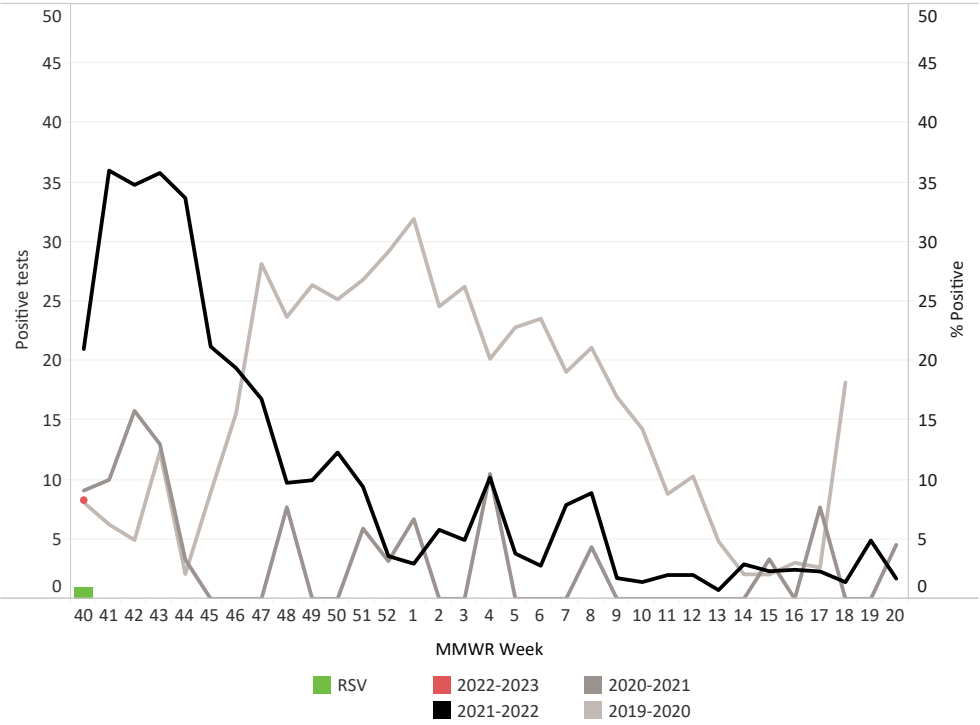
Region	% molecular influenza tests + this week
Central	4.0%
Metro	0.2%
Northeast	0.0%
Northwest	
South Central	1.5%
Southeast	
Southwest	
West Central	0.0%
Statewide (overall)	**0.5%**

Laboratory Surveillance (continued)

MLS Laboratories – Influenza Testing
Specimens Positive by Influenza Rapid Antigen Test, by Week



MLS Laboratories – RSV Testing
Specimens Positive by RSV Rapid Antigen Test, by Week



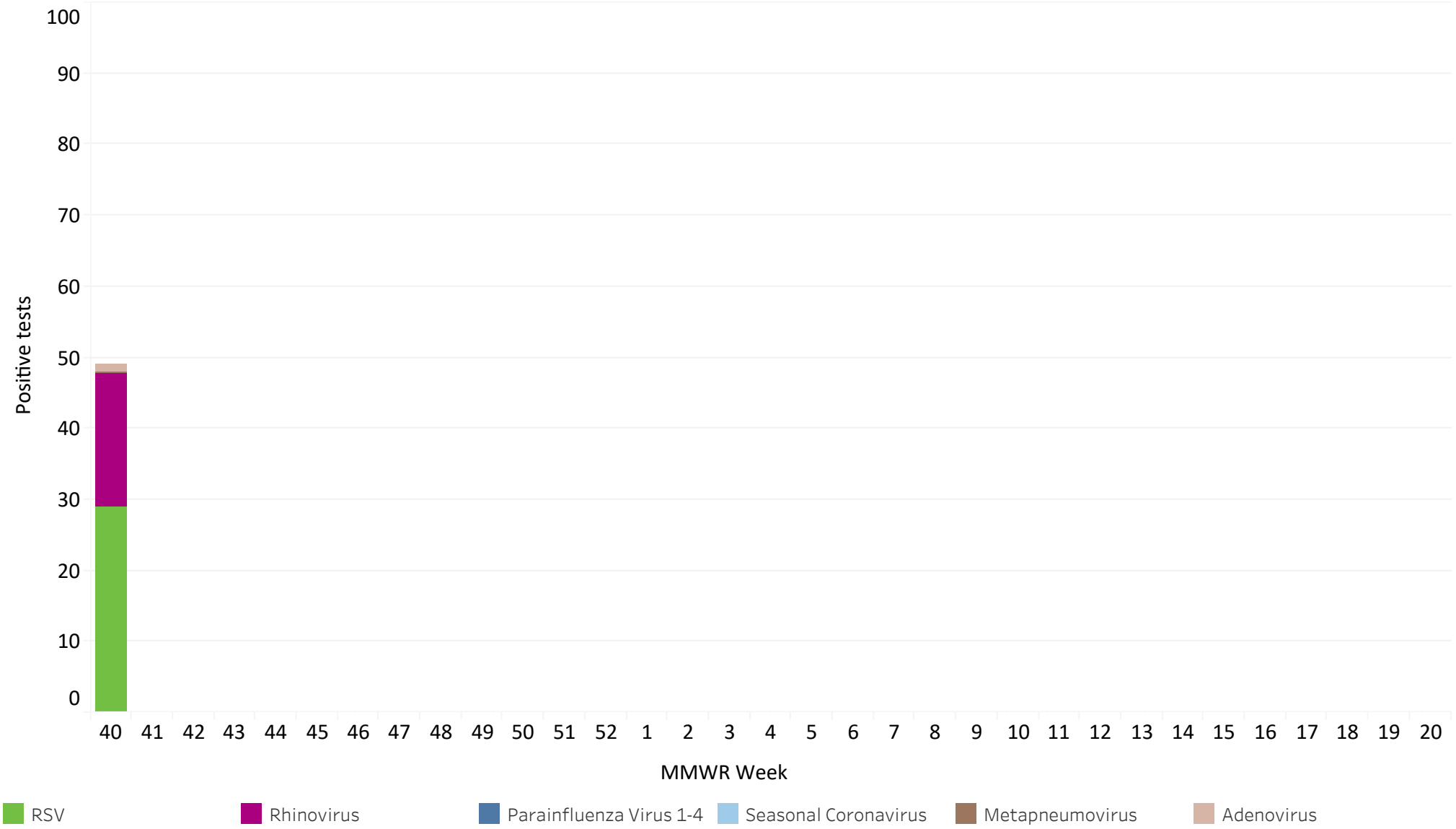
Region	% rapid antigen influenza tests + this week
Central	5.6%
Metro	
Northeast	
Northwest	0.0%
South Central	0.0%
Southeast	
Southwest	
West Central	8.3%
Statewide (overall)	**5.0%**

Region	% rapid antigen RSV tests + this week
Central	25.0%
Metro	0.0%
Northeast	0.0%
Northwest	
South Central	0.0%
Southeast	
Southwest	0.0%
West Central	
Statewide (overall)	**8.3%**

Laboratory Surveillance (continued)

Some participants in the MN Lab System (MLS) Laboratory Influenza Surveillance Program also report testing data from respiratory virus panel PCR testing. Tracking these laboratory results assists monitoring for non-influenza/non-COVID viruses that may be circulating and causing influenza-like illness.

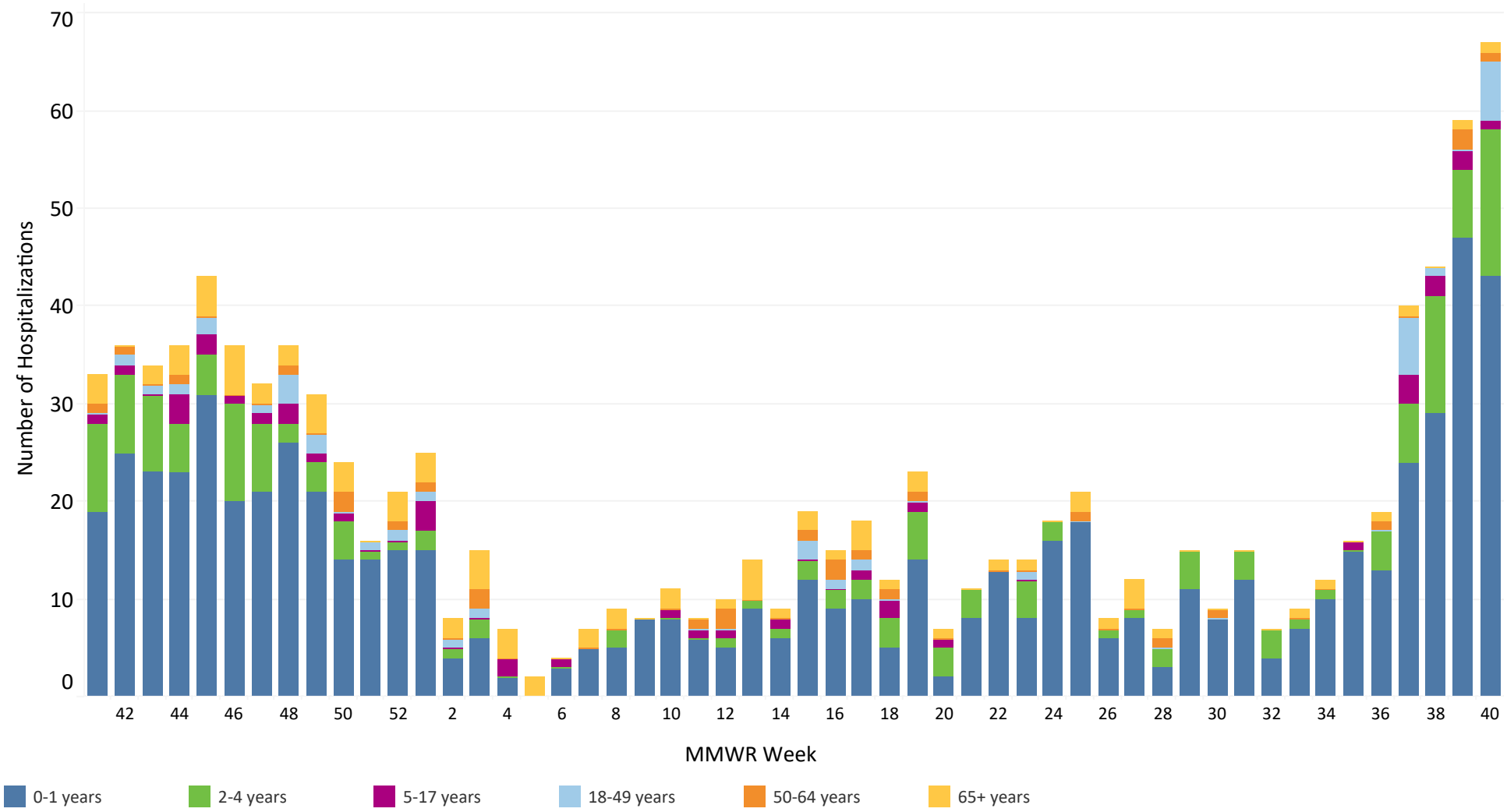
Other Molecular Testing Results by Virus from MLS Survey



Hospitalized RSV Surveillance

Surveillance for respiratory syncytial virus (RSV) began in September 2016. Hospitalized inpatients of all ages who reside in the 7-county Twin Cities metropolitan area (Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington) with laboratory-confirmed RSV are reportable. Due to the need to confirm reports and reporting delays, consider current week data preliminary.

Hospitalized RSV Cases by Age, Minnesota

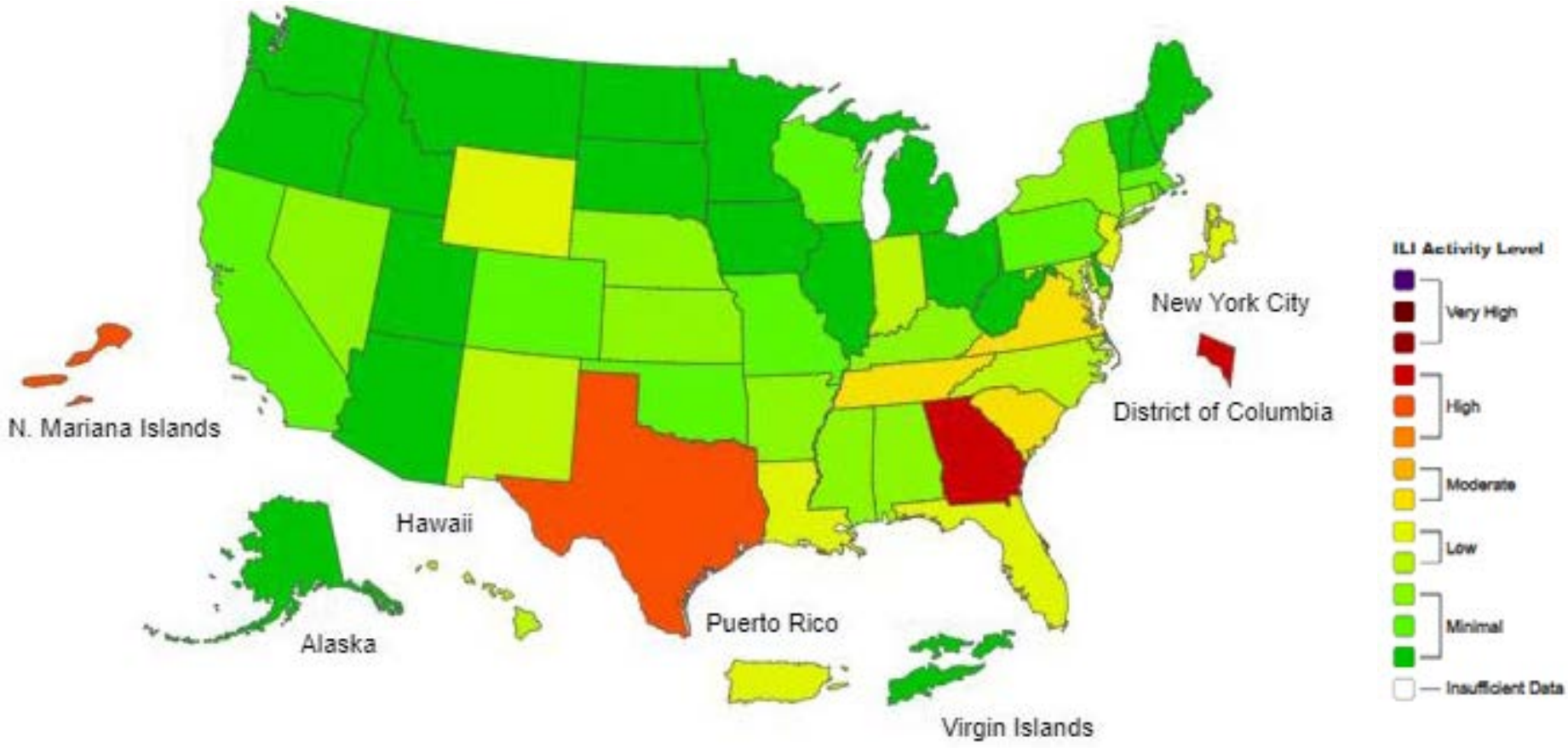


Weekly U.S. Influenza Surveillance Report

Week 39, ending Oct. 1, 2022

Seasonal influenza viruses continue to circulate and activity is increasing in parts of the country.

Outpatient Illness: ILINet Activity Map



CDC National Influenza Surveillance (http://www.cdc.gov/flu/weekly/)