



INFLUENZA REPORT

2024-2025 Influenza Season

MMWR Week 11 (3/9/25 – 3/15/25)

Weekly Report of Influenza and Influenza-like Illness (ILI) Activity



Influenza and Influenza-like Illness Activity

Spread

Regional

Transmission levels have started to decrease across the state

Flu Activity

Declining

Most counties reported a decrease in overall influenza case counts this week

ILI Activity

Low

Reports of outpatient respiratory illnesses have decreased

Co-circulating

Other Respiratory

Infections:

SARS-CoV-2, Pertussis, and RSV

Seasonal Data

Types of Flu

Influenza A and B viruses are circulating

Subtypes

Primary: A viruses

Predominately H1N1 and H3N2 viruses reported across the country this week

Outbreaks

0

No newly reported school or LTCF outbreaks reported this week

Severity

Hospitalizations

The percent of ED visits and hospital admissions for influenza is elevated but trending down

Deaths

151

No locally reported pediatric deaths this week; 151 pediatric deaths reported in the US so far this season

Syndromic

5

Five syndromic anomalies were reported this week

EMS

30

Suspected ILI reports this week

Hot Spots

Tracking Trends

Several schools and daycares across the state continue to report high levels of respiratory activity



Geographic Activity by Regions

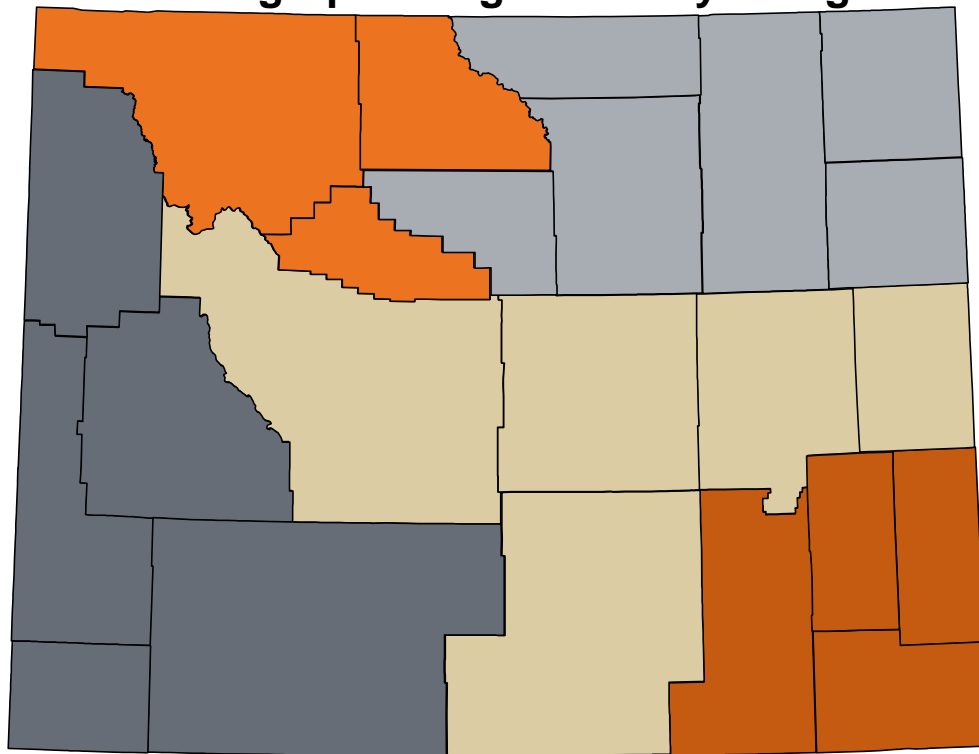
Wyoming as a whole had **low** ILI activity this week (MMWR Week 11). Transmission levels have started to decrease across the state.






Healthcare providers in 19 counties reported ILI activity.

The electronically reported influenza cases represent all five Infectious Disease Epidemiology (IDE) Geographic Regions.

Healthcare providers across the state electronically reported **182 cases** of influenza (rapid influenza diagnostic tests and PCR confirmed tests) this week.

IDE Geographic Regions of Wyoming



-  Southeastern (**regional**, cases reported in Albany, Laramie, and Platte)
-  Big Horn (**widespread**, cases reported in every county)
-  Central (**regional**, cases reported in Carbon, Converse, Natrona, and Fremont)
-  Western (**regional**, cases reported in every county besides Lincoln)
-  Northeastern (**regional**, cases reported in every county besides Weston)



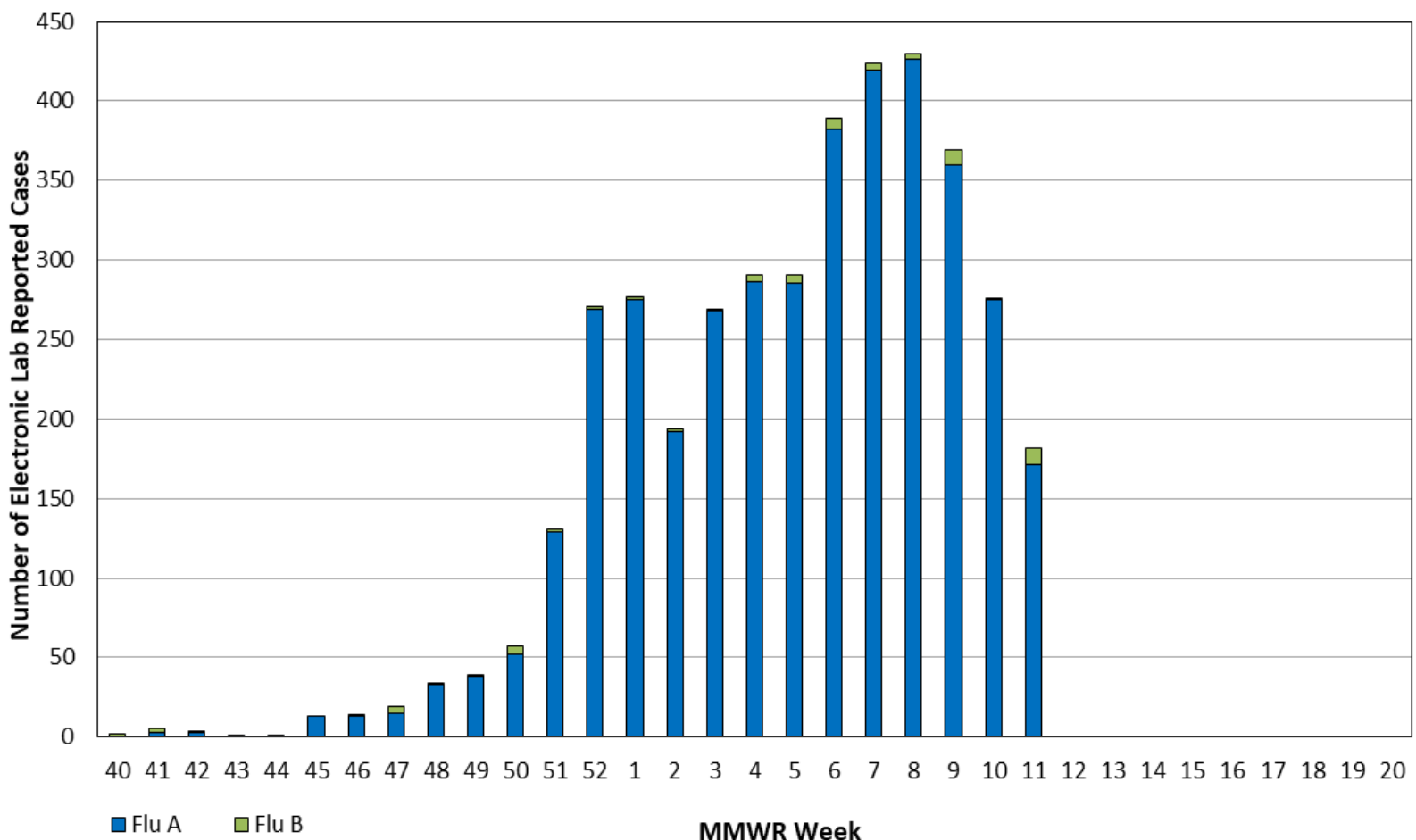
Public Health Laboratory

The overall volume of samples tested for influenza at the Wyoming Public Health Laboratory has steadily declined following the increasing distribution of the CDC Influenza SARS-CoV-2 Multiplex Assay in addition to at home testing options. **We strongly encourage providers across the state to send additional specimens to the WPHL for virologic surveillance.** The number of positive influenza specimens electronically reported this week decreased compared to week 10.

Healthcare and Clinical Laboratories

Clinical laboratories across the country most frequently reported **influenza A viruses (A/H1N1 and A/H3N2)** co-circulating during MMWR Week 11.

Electronic Lab Reports of Influenza Cases



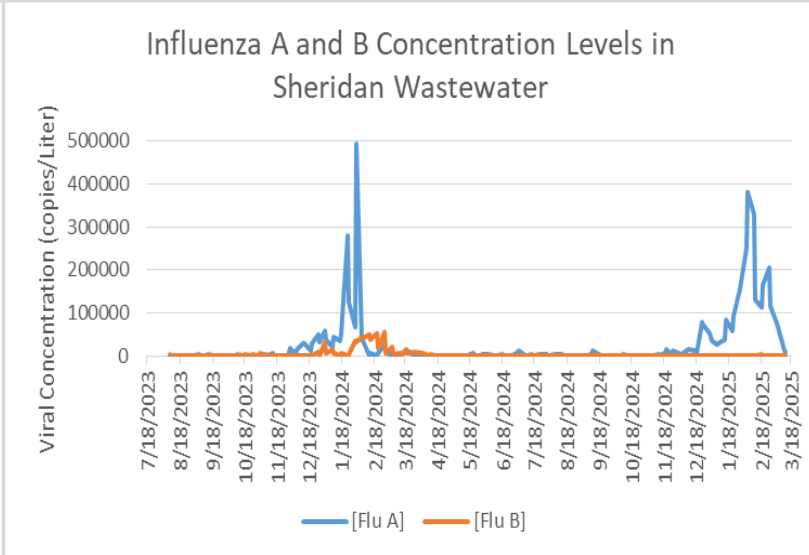
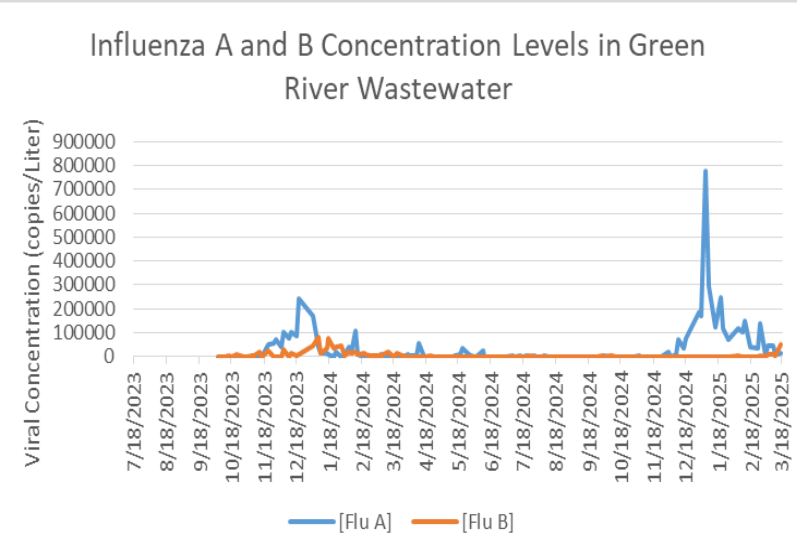
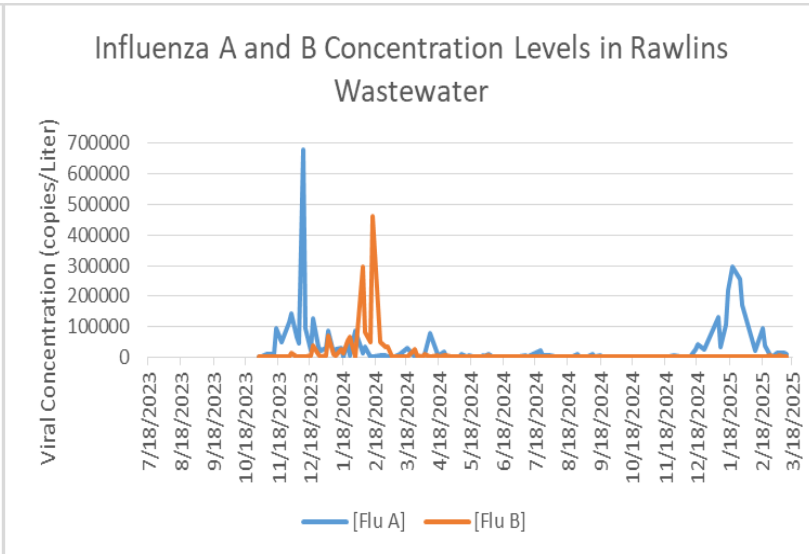
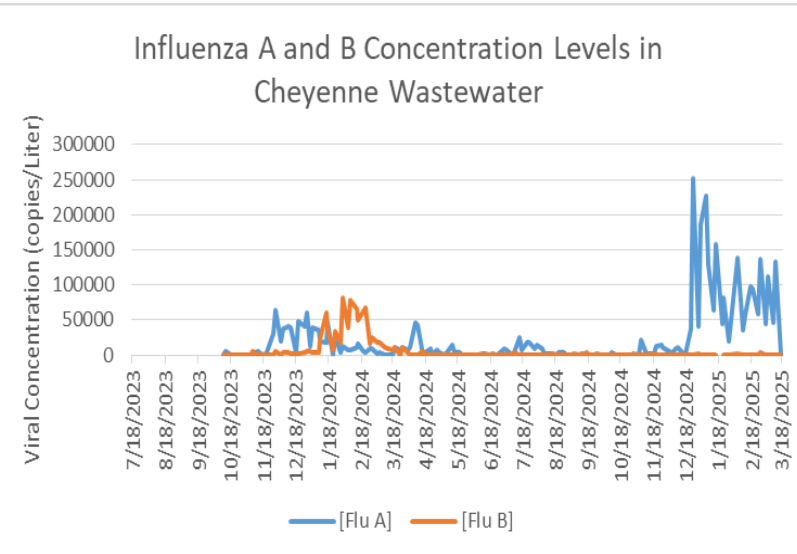
* This graph is not representative of all influenza cases across the state

Wastewater Surveillance



Importance of Wastewater Surveillance:

Here at the Wyoming Public Health Laboratory, we have a team of scientists working to analyze wastewater samples to identify trends in influenza (and many other pathogens). The graphs pictured below depict trend lines for the 2023-2024 influenza season and the 2024-2025 season. It is important to note that the high concentrations we saw this season have dwarfed many of the values that were detected last year.



Sampling and Analysis Methodologies:

For each city, twice a week, we have a wastewater utility operator take a 24 hour composite sample from the influent channel prior to treatment, of which they send us a total of 150mL in three 50mL tubes for us to test. They then ship the samples chilled via priority overnight so that we can run all of our measurements the following day. The sampling procedure is conducted in triplicate, and we take an average of the three to determine the estimated concentration of viral particles present in the wastewater for any given day. We then take the average concentration and divide it by our percent recovery to account for any deviation due to differing levels of present inhibitors. Each plot point on the graph represents the average viral concentration for a set of triplicates, normalized for the percent recovery.

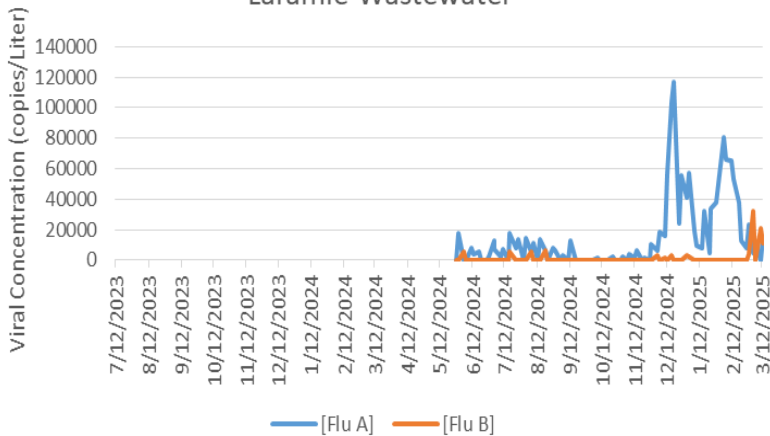
Wastewater Surveillance Continued



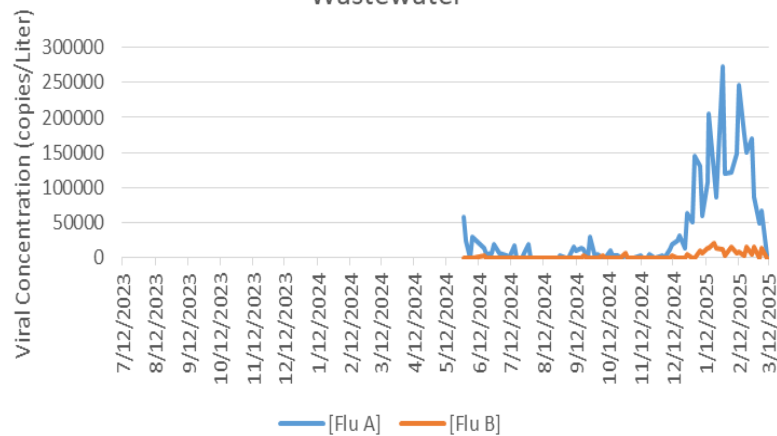
Four additional sample sites:

Our colleagues at the University of Wyoming have also started to analyze wastewater samples that have been collected at four additional treatment facilities across the state. The graphs below show current trend lines of varying influenza concentrations detected in wastewater starting in June of 2024 up until present. The data depicted below does not include the 2023-2024 influenza season. As a result, the initial viral concentrations appear diminished because of the higher values we observed during recent weeks where we had sustained community-wide transmission.

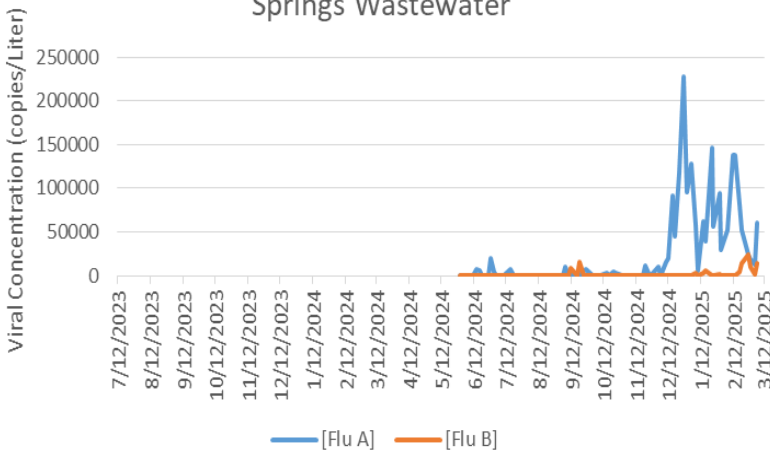
Influenza A and B Concentration Levels in Laramie Wastewater



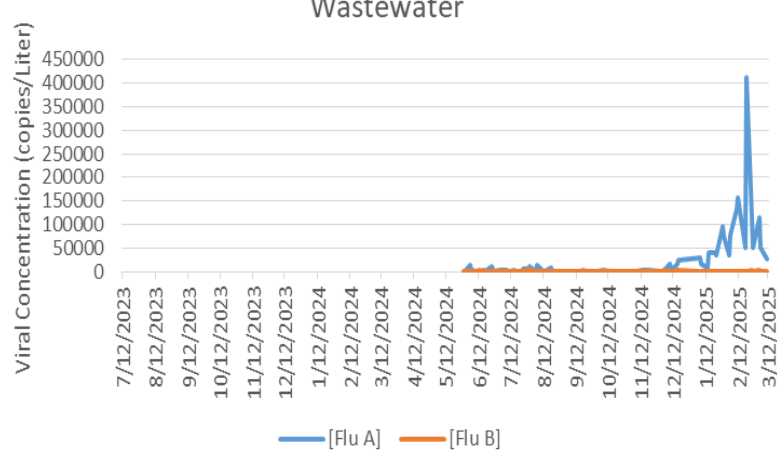
Influenza A and B Concentration Levels in Jackson Wastewater



Influenza A and B Concentration Levels in Rock Springs Wastewater



Influenza A and B Concentration Levels in Gillette Wastewater



Influenza-like Illness Surveillance



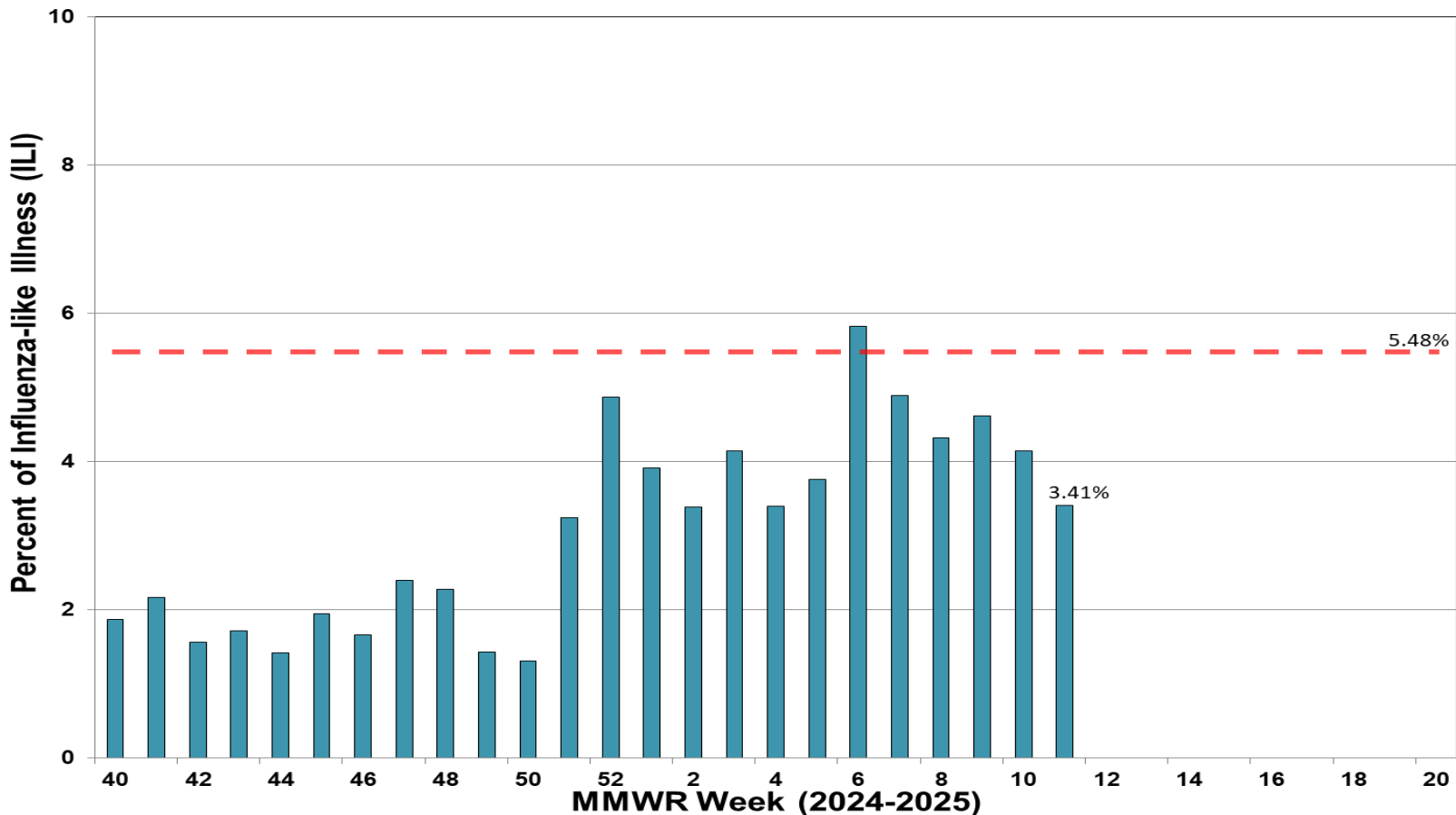
ILINet Providers

The percent of patient visits to ILINet Sentinel Providers for an influenza-like illness was **3.41%**, which is below Wyoming's baseline (**5.48%**), and a decrease compared to week 10.

The Wyoming Department of Health received reports from less than 50% of the ILINet providers across the state. Therefore, weekly percentages could continue to change as additional values are submitted.

Key Updates: Seasonal influenza activity remains elevated nationally but has decreased for five consecutive weeks. The season has peaked; however, flu-related medical visits, hospitalizations, and deaths remain elevated, and CDC expects several more weeks of flu activity. Based on CDC calculations, transmission within Wyoming was **low** this week. Outpatient respiratory illness decreased this week but remains above the national baseline for the sixteenth consecutive week. Nine out of 10 HHS regions are above their region-specific baselines; Region 8 is below its baseline.

Weekly Percent of ILI Visits





Mortality Data

Tracking death certificates is the best surveillance system to capture and identify pneumonia and influenza-associated deaths in Wyoming. According to the CDC, influenza is infrequently listed on death certificates. Also, testing for seasonal influenza infections is not frequently performed, particularly among the elderly, who are at greatest risk for seasonal influenza complications and death. Therefore, public health officials may not identify influenza-associated deaths in many instances; consequently, this surveillance system may underestimate the true impact of influenza-associated deaths across the state.

There have been 42 pneumonia and influenza (P&I) mortality reports certified since the beginning of the 2024-2025 Influenza Season.

Monthly P&I Mortality Reports (2020-2025)

