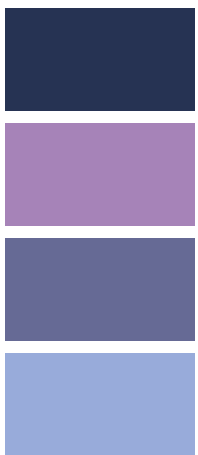


Columbia/Boone County Public Health and Human Services

2023-2024



FLU SEASON REPORT

Published December 2024



In Missouri, influenza is a reportable condition. This report summarizes the 2023-2024 Boone County, Missouri influenza season from Oct. 1, 2023, (CDC Week 40) through May 18, 2024 (CDC Week 20).

According to the Centers for Disease Control and Prevention (CDC), influenza A (H1N1)pdm09 virus predominated across the United States during this season (CDC, 2024). However, influenza A (H3N2) and influenza B/Victoria viruses were identified more frequently later in the season. This shift took place as overall influenza activity decreased.

Notably, several avian influenza A (H5) cases were detected in humans across several states, including Missouri. Most cases were associated with exposures to infected dairy cattle or poultry culling operations. However, one Missouri case does not have a determined source at the time of this report. All human cases recovered, and as of the time of this publication, no human-to-human transmission of avian influenza A (H5) viruses has been identified (CDC, 2024).

Overall, Boone County had a higher rate* of influenza compared to Missouri during the previous season. Boone County saw 3,653 reported cases of influenza during the 2023-2024 season (Figure 1). Of the reported cases in Boone County, 1,995 were influenza A (55%), while 1,658 were influenza B (45%). Zero unknown/untyped flu cases were reported during the season. The peak of the season occurred during the week ending Feb. 24, 2023, (CDC Week 8) with 351 reported cases.

In Boone County, the 5- to 14-year-old age group reported the highest number of influenza cases with 991 (27%). The 25- to 49-year-old age group reported the second-highest number of cases with 924 (25%). However, despite accounting for the smallest percentage of the population (<6%), the 0- to 4-year-old age group had the highest rate* of reported flu cases with 4,023.87/100,000 (Figure 2).

Figure 3 outlines the weekly reported cases of influenza A and B in Boone County during the 2023-2024 flu season. Figure 4 displays a comparison in weekly reported influenza cases from the 2019-2020 season through the most current season.

*a rate is determined by dividing the number of new cases of a particular disease by the number of persons at risk for the disease. A standard rate of individuals per 100,000 is used in this report.

Figure 1:

Reported Influenza in Boone County, Missouri By Type and Age Group 2023-2024 Season					
Age Group	Influenza A	Influenza B	Unknown/ Untyped	Total	Percent of Total
0-1 Yrs	97	70	0	167	5%
2-4 Yrs	147	104	0	251	7%
5-14 Yrs	408	583	0	991	27%
15-24 Yrs	332	282	0	614	17%
25-49 Yrs	479	442	0	921	25%
50-64 Yrs	288	87	0	375	10%
65+	244	90	0	334	9%
Total	1,995	1,658	0	3,653	100%

Figure 2:

Influenza Incidence Rate Per 100,000 by Age Group, Boone County vs. Missouri		
Age Group	Boone County	Missouri
0-4	4,023.87	4,342.53
5-24	2,677.10	2,904.40
25-49	1,570.76	1,188
50-64	1,320.24	999.66
65+	1,446.89	1,110.13
Cumulative Rate	2,024.24	1,764.31

Figure 3:

Reported Influenza Cases by Type, Boone County, Missouri 2023-2024

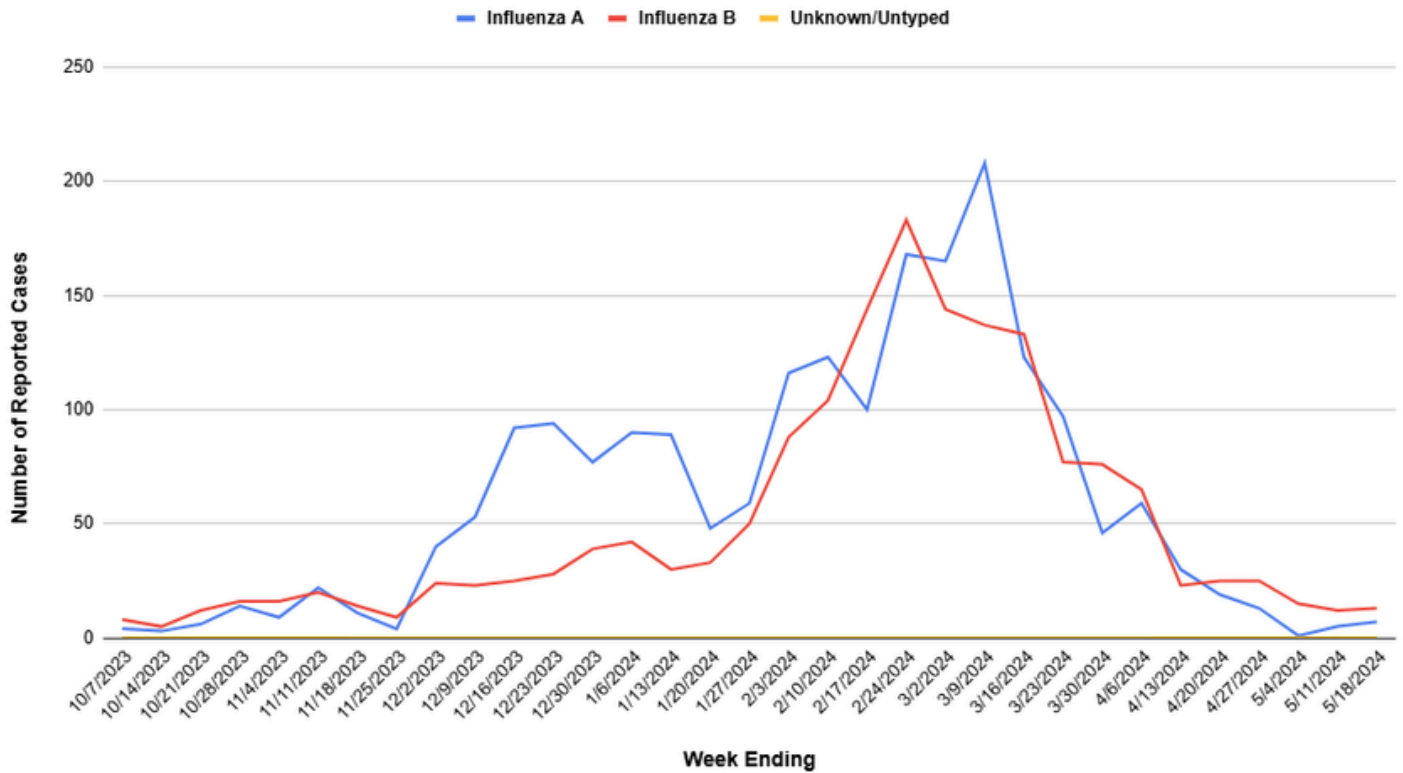
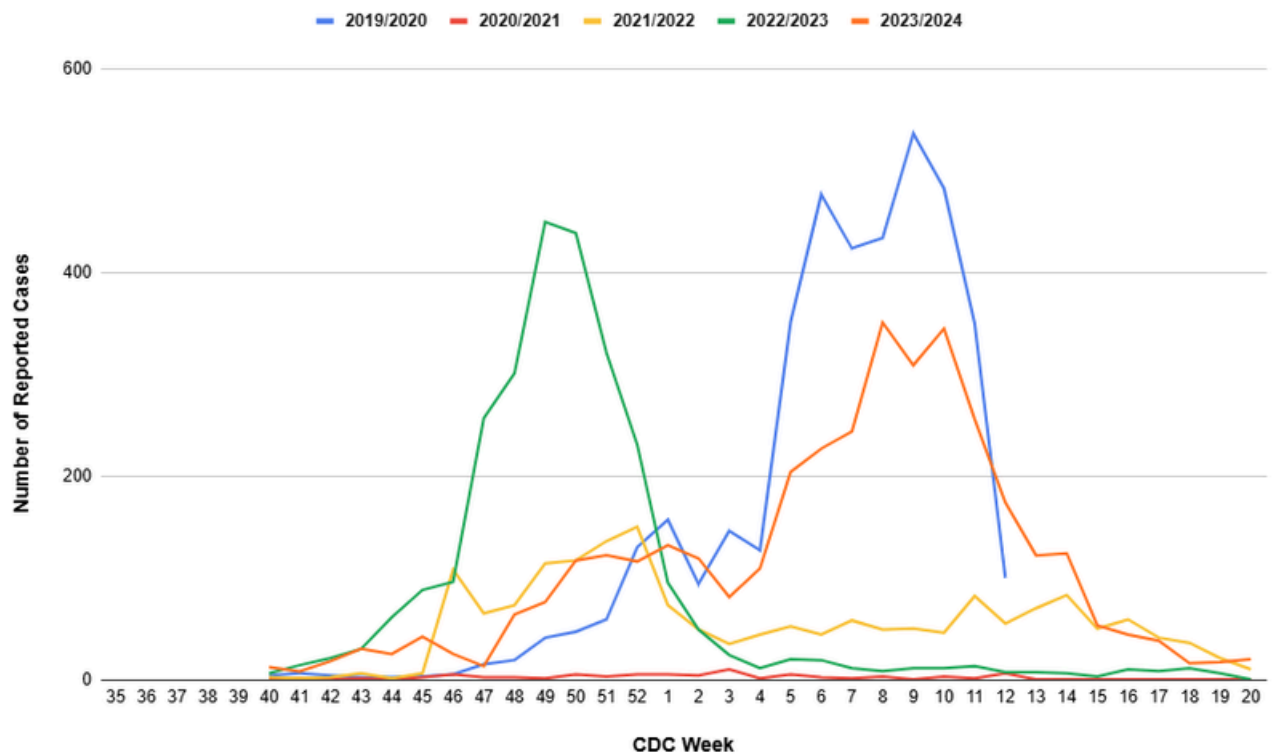


Figure 4:

Reported Influenza Weekly Influenza Cases, Boone County, Missouri, 2019-2020 to 2023-2024



References

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