

Denton County Public Health

2021 – 2022 Influenza Surveillance Program

CDC Week 3, Week Ending January 22, 2022



Epidemiologic Overview

Denton County

- Low influenza activity was reported in Denton County for week 3.
- 13 positive influenza tests (9 Flu A and 4 Flu B) and 2 hospitalizations were reported by Denton County sentinel providers for week 3.
- Syndromic surveillance for influenza-like illness (ILI) in Denton County decreased for week 3 when compared to the previous week.
- 0 influenza-associated deaths have been reported in Denton County for the 2021-2022 season.

Texas

- Intensity of influenza-like illness in the state of Texas was high for week 3.
- The percentage of visits for ILI as reported by ILINet providers decreased to 4.36% in week 3 compared to the previous week.
- The percentage of specimens testing positive for influenza by hospital laboratories in Texas increased to 3.90% in week 3 compared to the previous week.

US

- The percent of specimens testing positive for influenza remains stable, indicating that influenza virus circulation has remained at similar levels during the past two weeks.
- The majority of influenza viruses detected are A(H3N2).
- The proportion of outpatient visits for influenza-like illness (ILI) was 2.8%, which is above the national baseline of 2.5%.
- The percentage of specimens testing positive in clinical labs for influenza in the US was 1.9% for Week 3.
- The proportion of deaths attributed to pneumonia, influenza, or COVID-19 (PIC) from the National Center for Health Statistics Mortality Surveillance System for week 3 was 28.4%. This percentage is **above** the epidemic threshold of 7.1% for week 3.

Figure 1. Influenza Surveillance Summary: Denton County Hospitals and Providers

Week Ending	12/18/21	12/25/21	01/01/22	01/08/22	01/15/22	01/22/22	10/24/21 - 01/22/22
CDC Week	50	51	52	1	2	3	
Influenza Tests Performed Weekly	417	618	807	661	574	396	4986
Total Positive Influenza Tests	45	65	41	24	27	13	275
Percent Positive Influenza Tests*	10.8%	10.5%	5.0%	3.6%	4.7%	3.3%	
Positive A Influenza	39	57	34	16	14	9	215
Positive B Influenza	6	8	7	8	13	4	60
Non-differentiated Influenza	0	0	0	0	0	0	0
Influenza Hospitalizations	3	7	2	6	3	2	27
Influenza-associated Pediatric Deaths	0	0	0	0	0	0	0
Influenza-associated Adult Deaths	0	0	0	0	0	0	0

* Percent positive tests only includes positive tests from providers reporting number of tests performed weekly

Figure 2. Influenza Positive Tests and Percent Positive, Denton County Hospitals and Providers, 2021-2022 Season

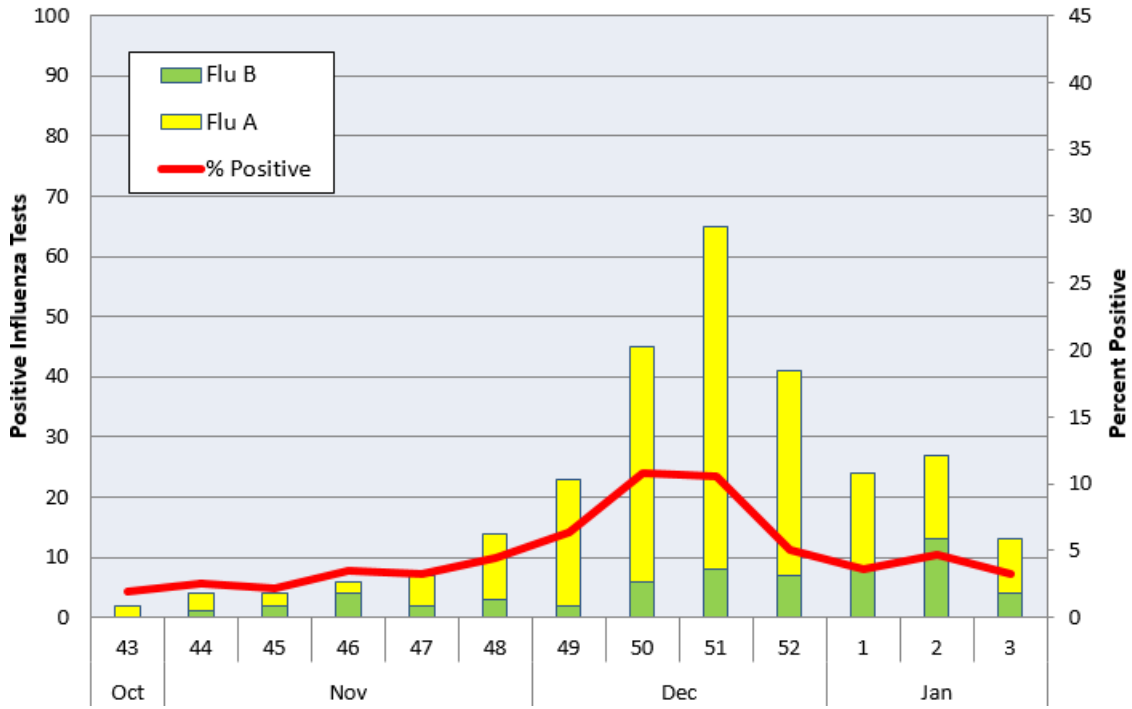


Figure 3. Seasonal Comparison of Influenza Percent Positive, Denton County, 2019 – 2022

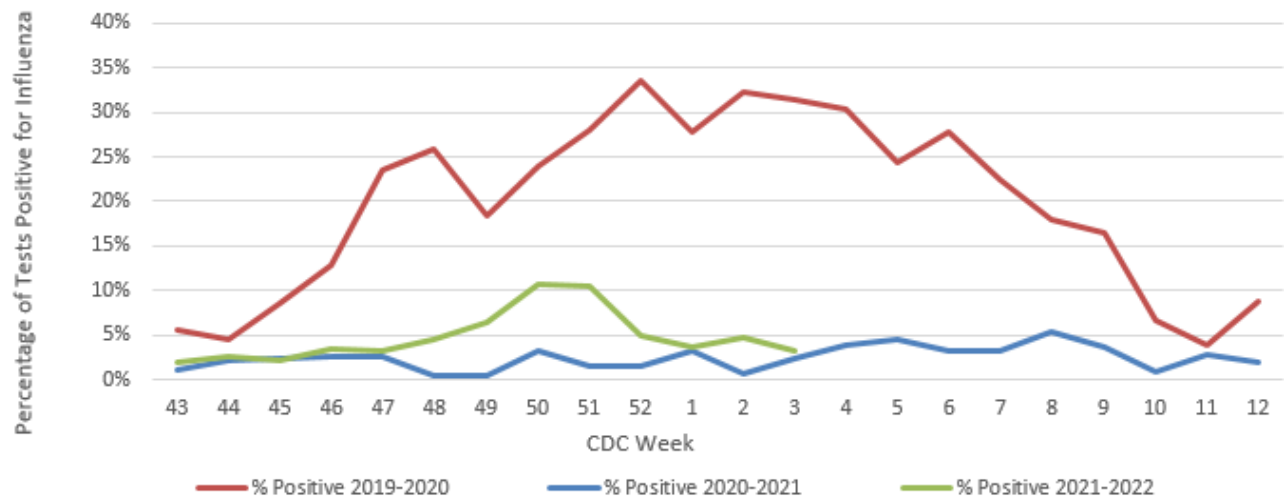


Figure 4. Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, October 3, 2021- January 22, 2022

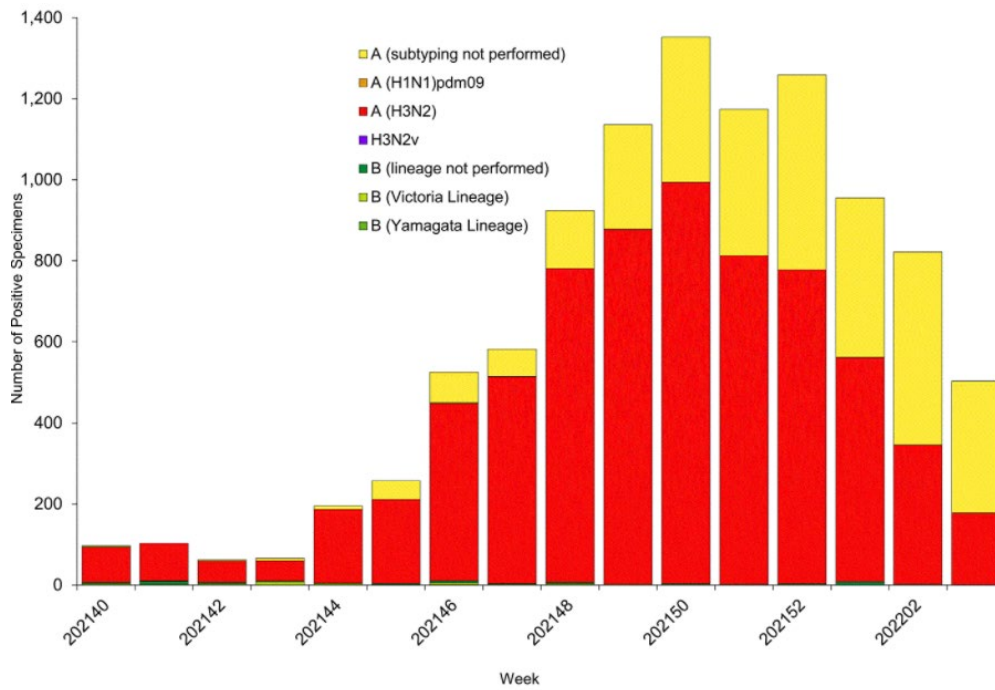


Figure 5. Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, October 3, 2021- January 22, 2022

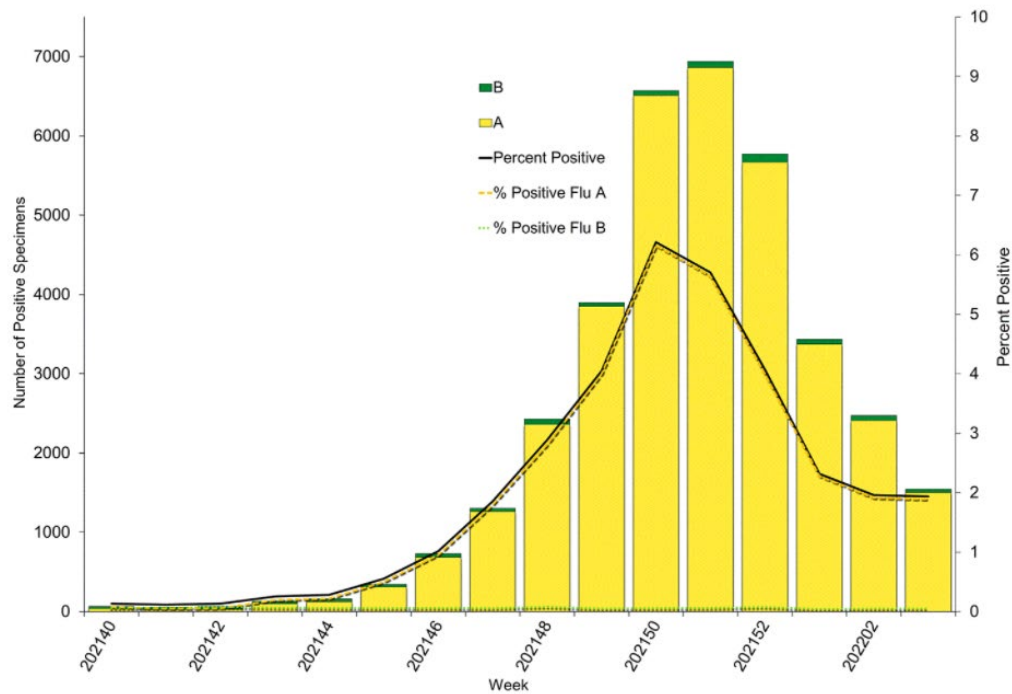


Figure 6. 2021-2022 Influenza Vaccine Composition, Northern Hemisphere:

Egg-based vaccine composition recommendations:

- an A/Victoria/2570/2019 (H1N1) pdm09-like virus;
- an A/Cambodia/e0826360/2020 (H3N2)-like virus;
- a B/Washington/02/2019- like virus (B/Victoria lineage);
- a B/Phuket/3073/2013-like virus (B/Yamagata lineage).

Cell- or recombinant-based vaccine composition recommendations:

- an A/Wisconsin/588/2019 (H1N1) pdm09-like virus;
- an A/Cambodia/e0826360/2020 (H3N2)-like virus;
- a B/Washington/02/2019- like virus (B/Victoria lineage);
- a B/Phuket/3073/2013-like virus (B/Yamagata lineage).

Figure 7. U.S. Virologic Surveillance, Week 3

	Week 3	Data Cumulative since October 3, 2021 (Week 40)
No. of specimens tested	79,667	1,360,940
No. of positive specimens (%)	1,543 (1.9%)	35,913 (2.6%)
<i>Positive specimens by type</i>		
Influenza A	1,503 (97.4%)	35,104 (97.7%)
Influenza B	40 (2.6%)	809 (2.3%)

Figure 8. ESSENCE Syndromic Surveillance for Influenza-like Illness: Denton County, August 01, 2021- January 22, 2022

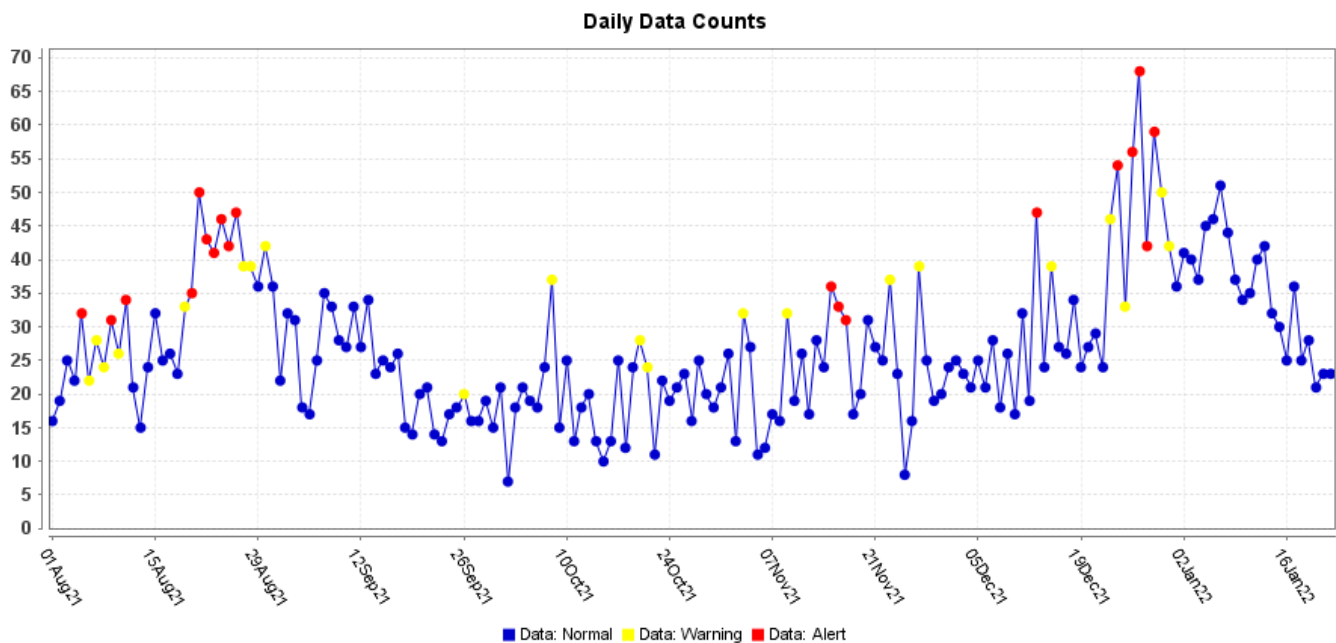


Figure 9. ESSENCE Syndromic Surveillance for Influenza-like Illness: Denton County, October 01, 2020 – January 22, 2022

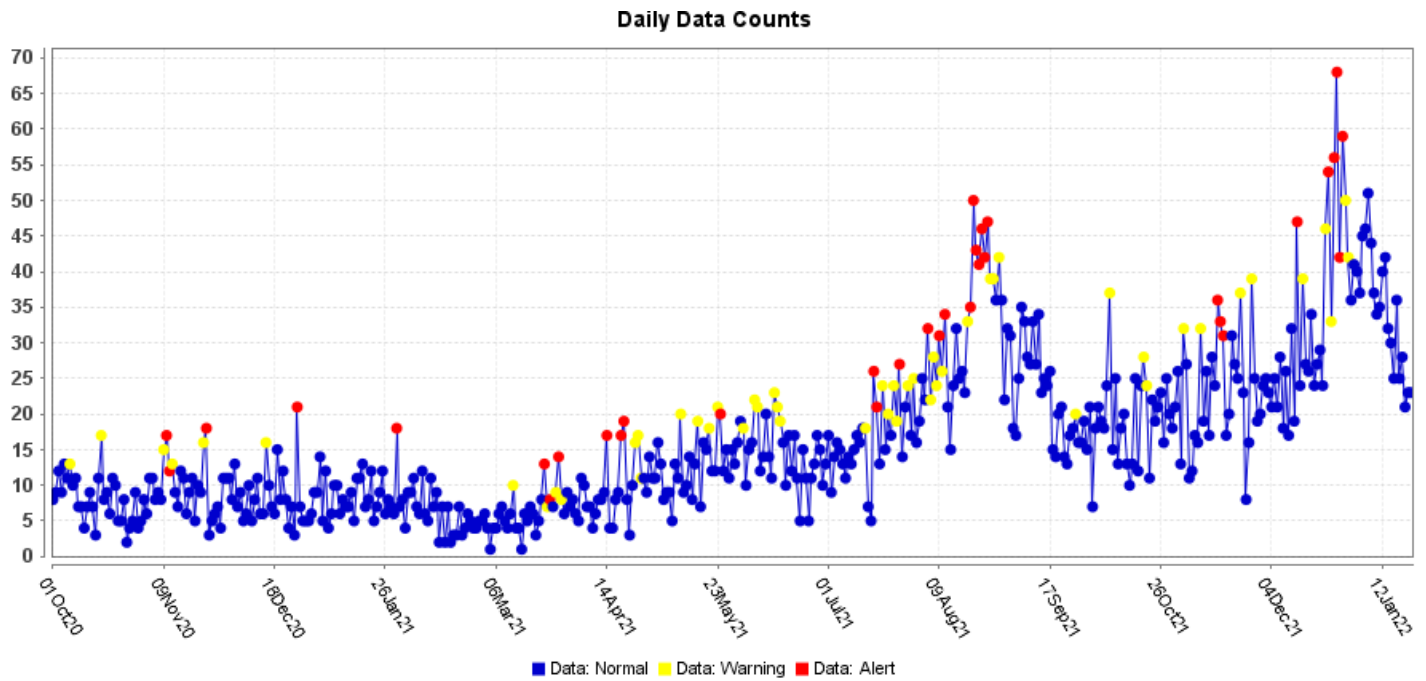
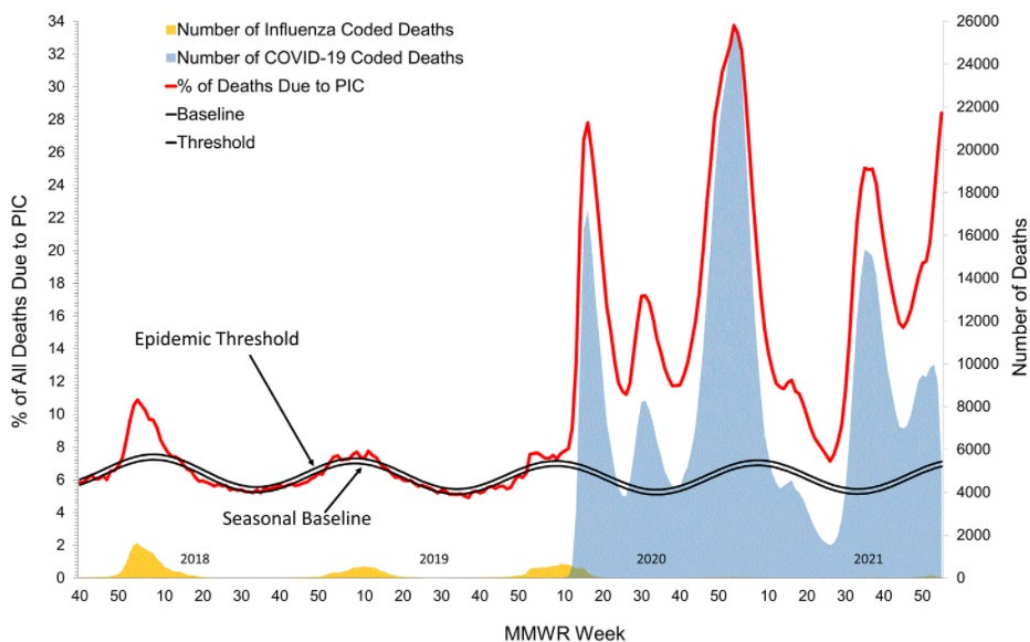
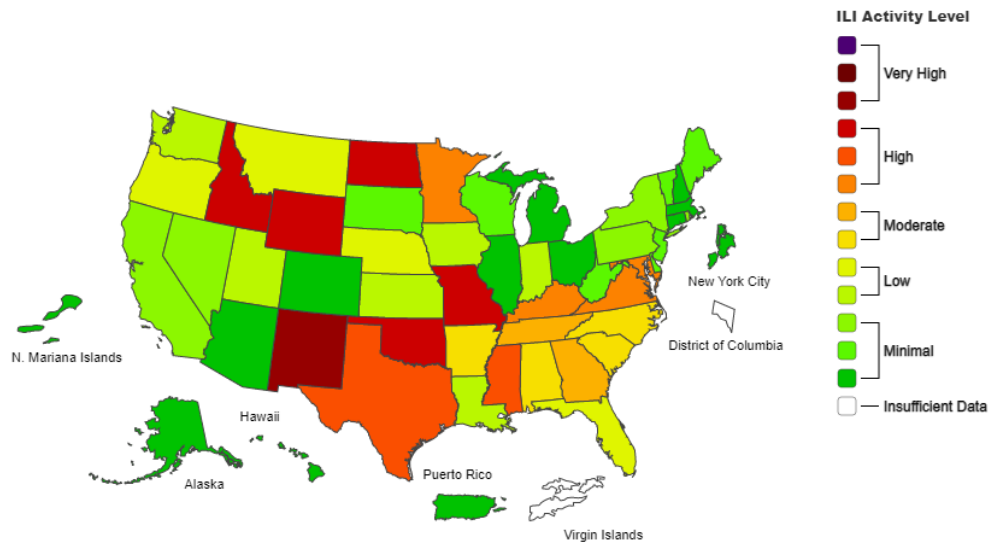


Figure 10. Pneumonia and Influenza Mortality from the National Center for Health Statistics Mortality Surveillance System: Data as of January 27, 2022



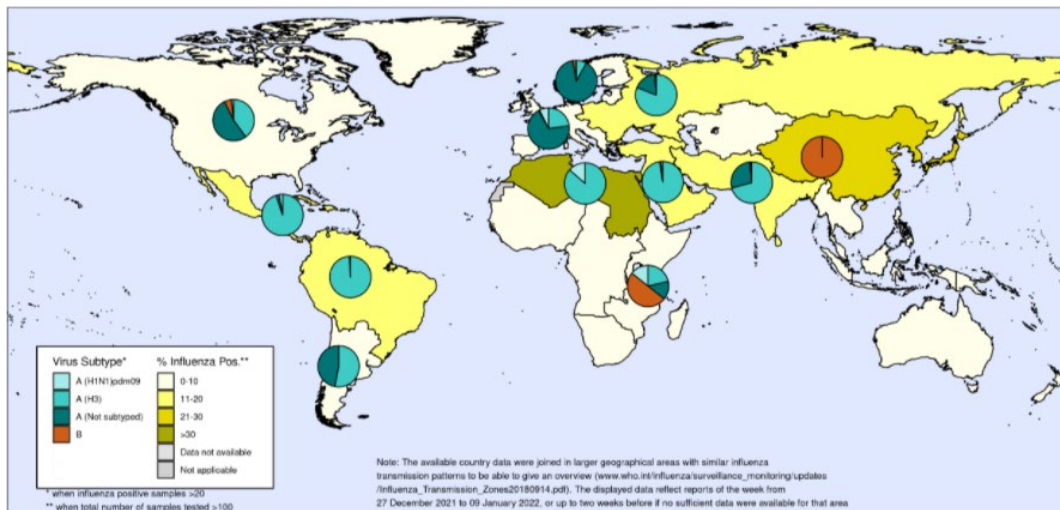
Source: <https://www.cdc.gov/flu/weekly/index.htm>

Figure 11. 2021-22 Influenza Season Week 3 ending January 22, 2022



Source: <https://www.cdc.gov/flu/weekly/index.htm>

Figure 12. Percentage of Respiratory Specimens that tested Positive for Influenza: WHO, Status as of January 21, 2022



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data source: Global Influenza Surveillance and Response System (GISRS), FluNet (www.who.int/flu-net)
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Please direct inquiries to Denton County Public Health at
epidemiology@dentoncounty.com or 940-349-2909