



National Center for Immunization & Respiratory Diseases



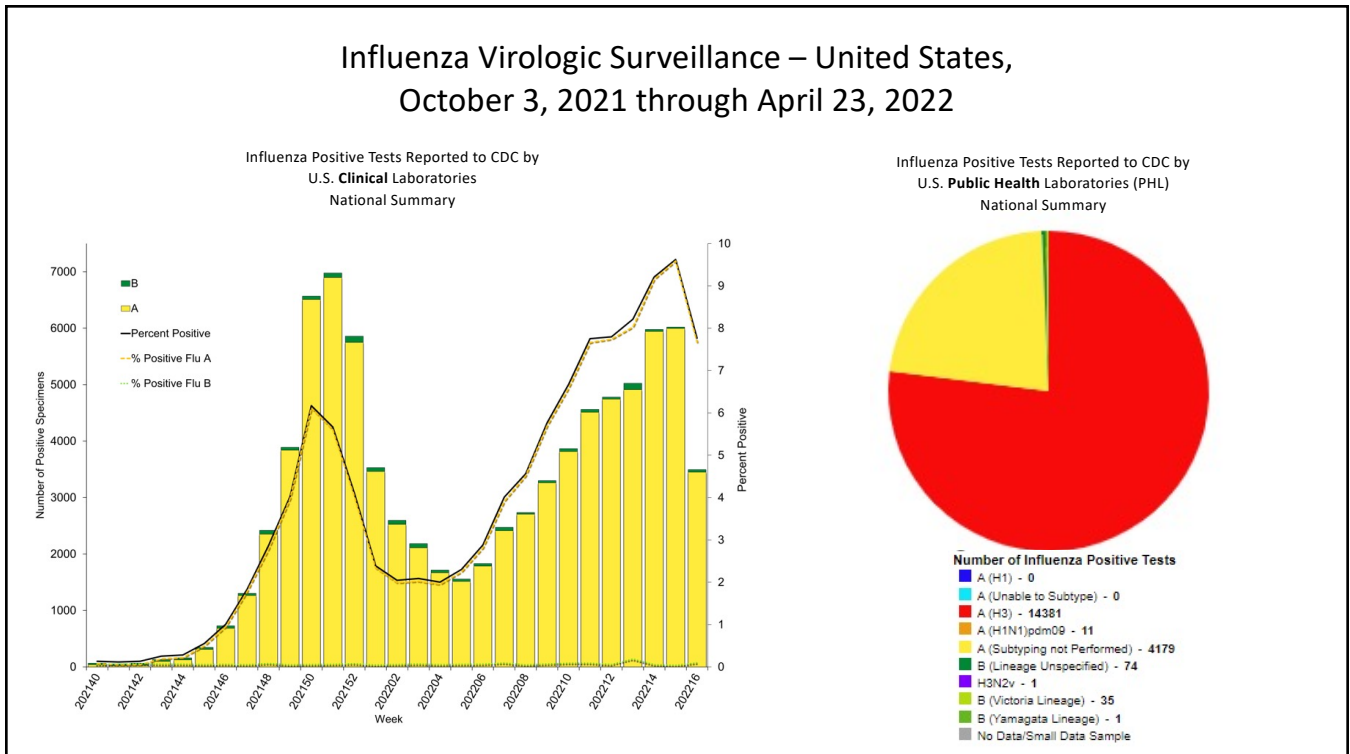
Influenza Activity in the United States 2021 – 2022 Season

Data through the week ending April 23 (week 16)



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

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Influenza Virologic Surveillance – United States, October 3, 2021, through April 23, 2022

Virus Subtype or Lineage	Genetic Characterization				
	Total No. of Subtype/Lineage Tested	HA Clade	Number (% of subtype/lineage tested)	HA Subclade	Number (% of subtype/lineage tested)
A/H1	4	6B.1A	4 (100%)	5a.1	2 (50%)
				5a.2	2 (50%)
A/H3	1,007	3C.2a1b	1,007 (100%)	1a	1 (0.1%)
				1b	1 (0.1%)
				2a	0
				2a.1	0
				2a.2	1,005 (99.8%)
		3C.3a	0	3a	0
B/Victoria	23	V1A	23 (100%)	V1A	0
				V1A.1	0
				V1A.3	9 (39.1%)
				V1A.3a	0
				V1A.3a.1	0
				V1A.3a.2	14 (60.9%)
B/Yamagata	0	Y3	0		

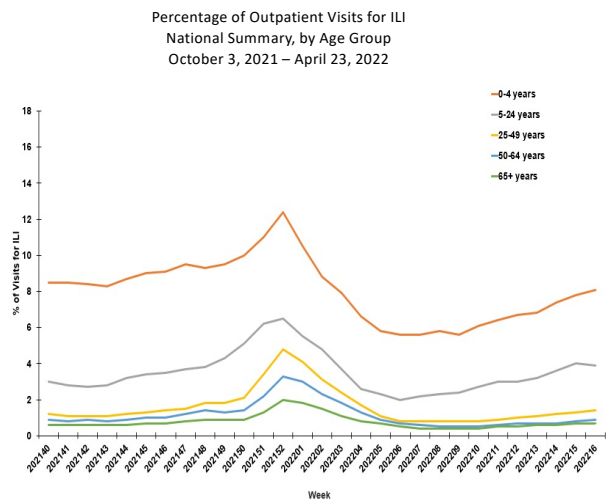
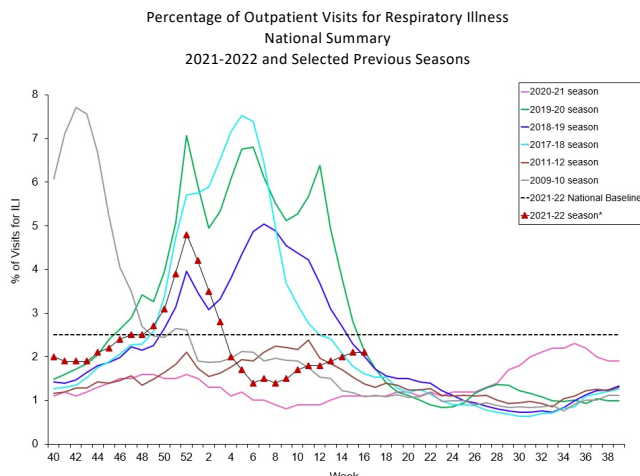
Antigenic Characterization		
Virus	Number Tested	Number (%) antigenically similar to vaccine reference virus
A/H3N2	93	4 (4%) similar to cell-grown reference virus
		19 (20%) similar to egg-grown reference virus
A/H1N1	3	2 (67%) similar to cell-grown reference virus
		2 (67%) similar to egg-grown reference virus
B/Victoria	15	11 (73%) similar to cell-grown reference virus
		11 (73%) similar to egg-grown reference virus
B/Yamagata	0	

Antiviral Resistance

- Oseltamivir, Peramivir, Zanamivir
 - 1,168 tested
 - None with reduced inhibition
- Baloxavir
 - 1,139 tested
 - 1 A/H3 with decreased susceptibility

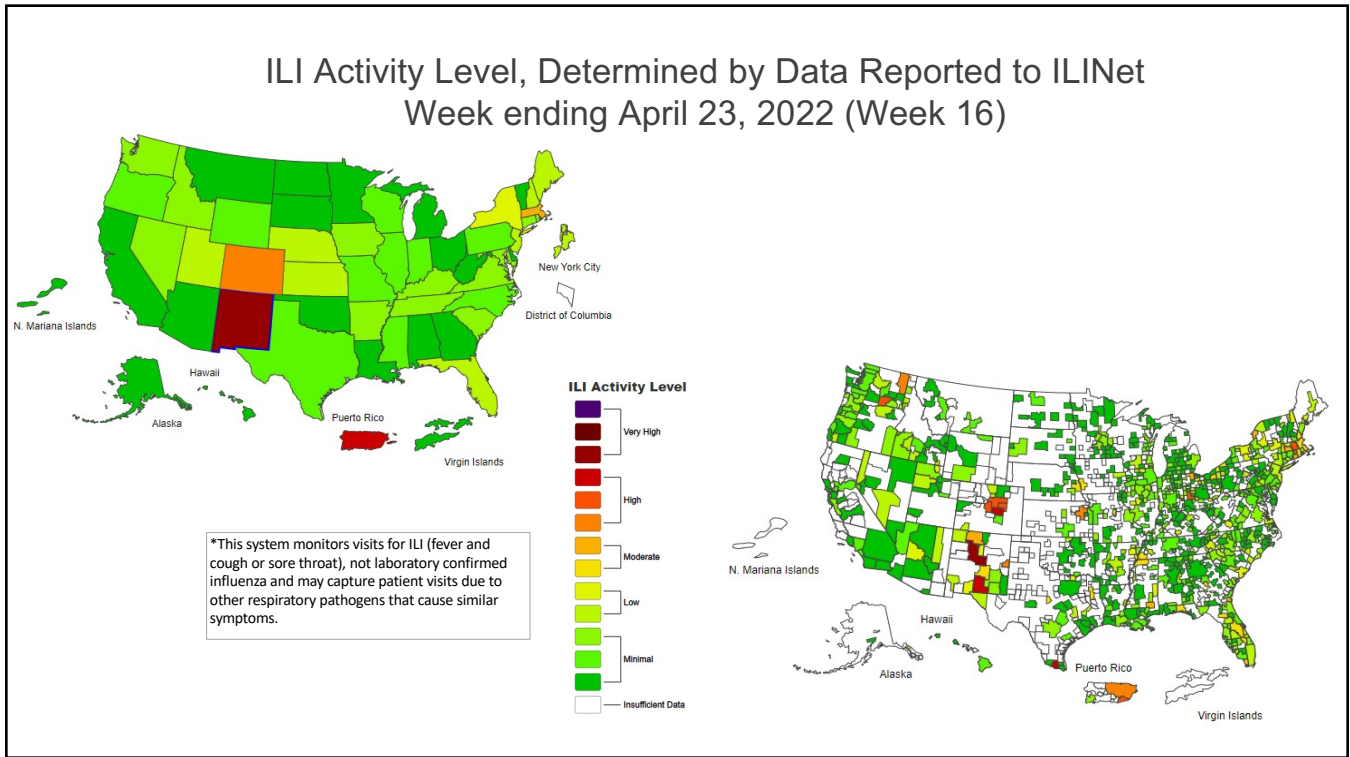
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Outpatient Visits for Respiratory Illness, Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

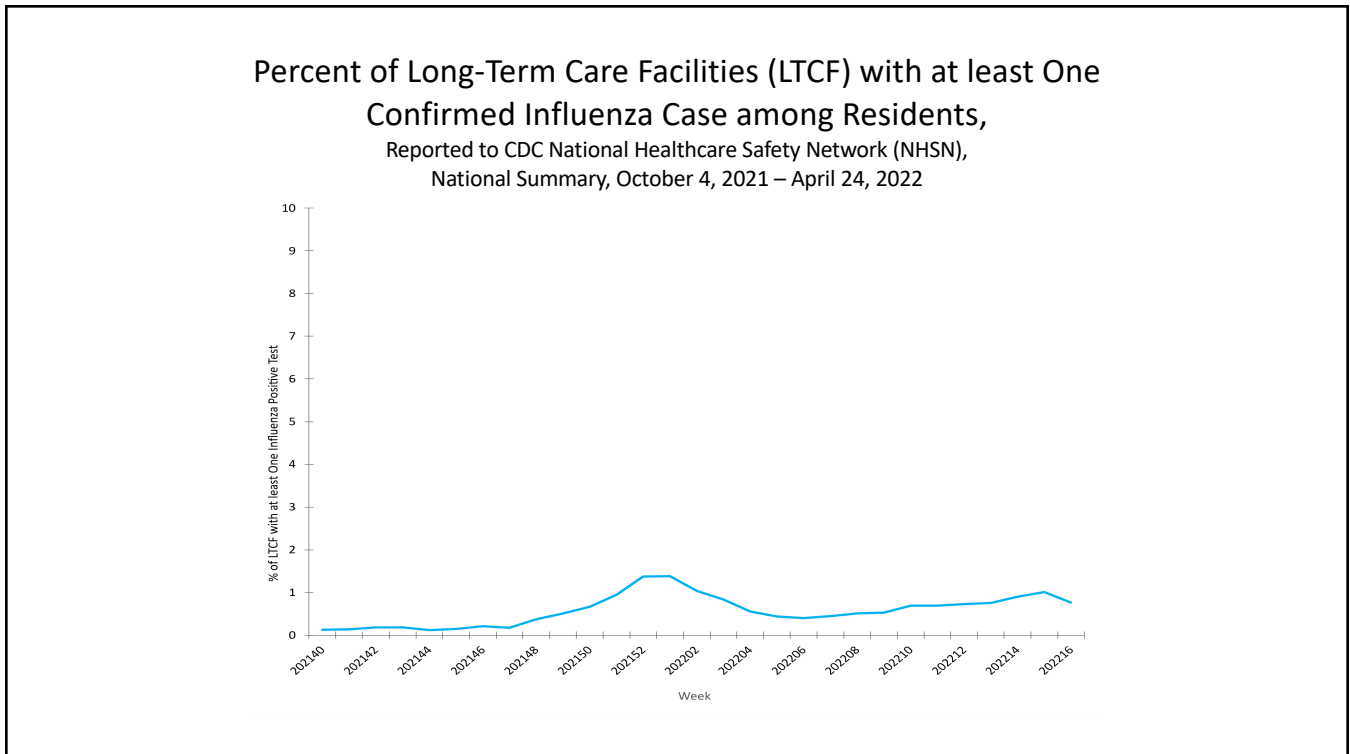


*This system monitors visits for respiratory illness that includes fever plus cough or sore throat (referred to as ILI,) not laboratory confirmed influenza, and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

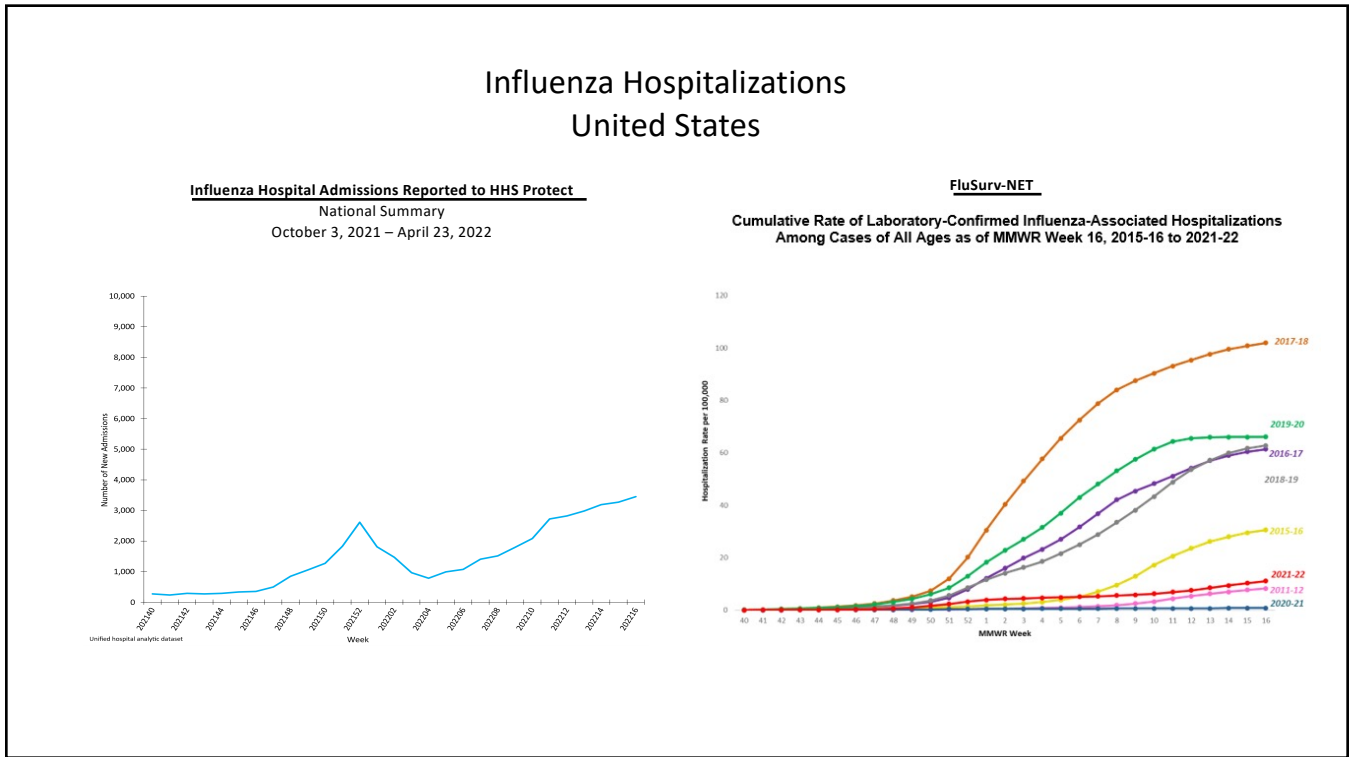
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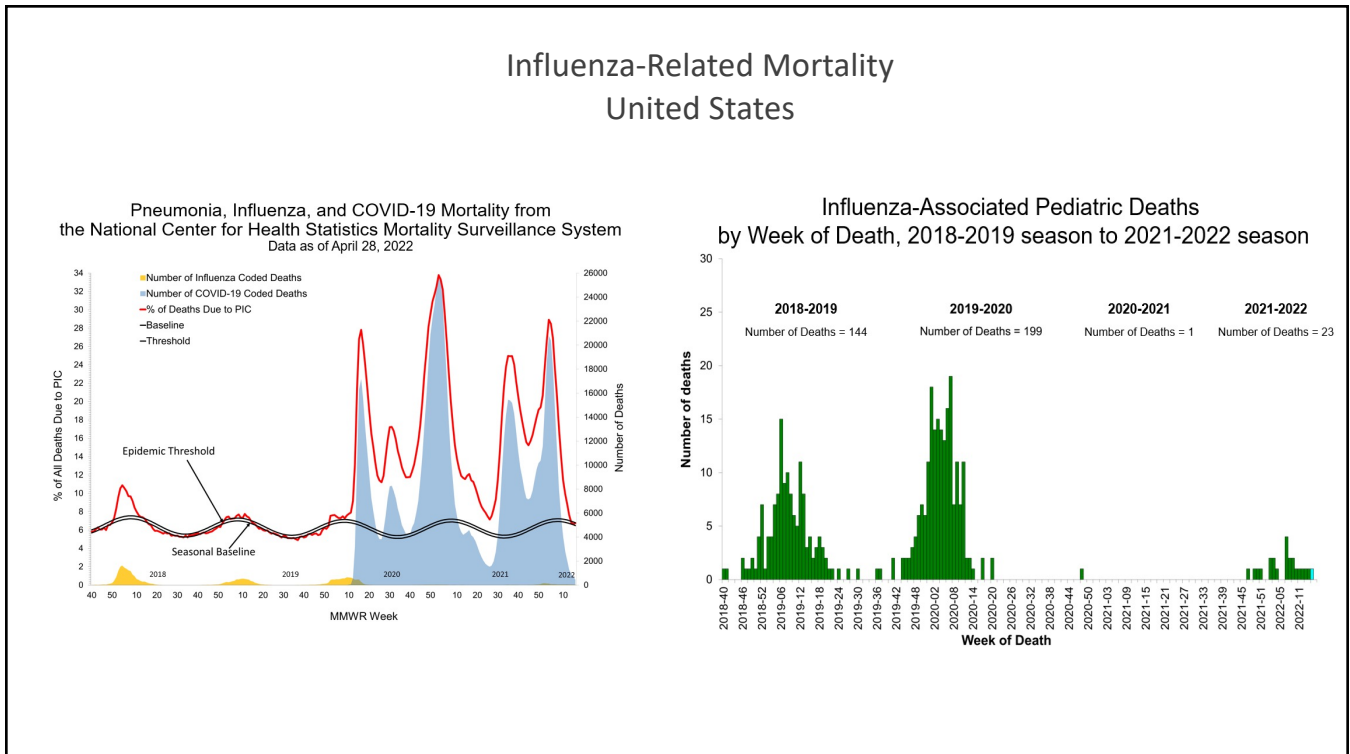
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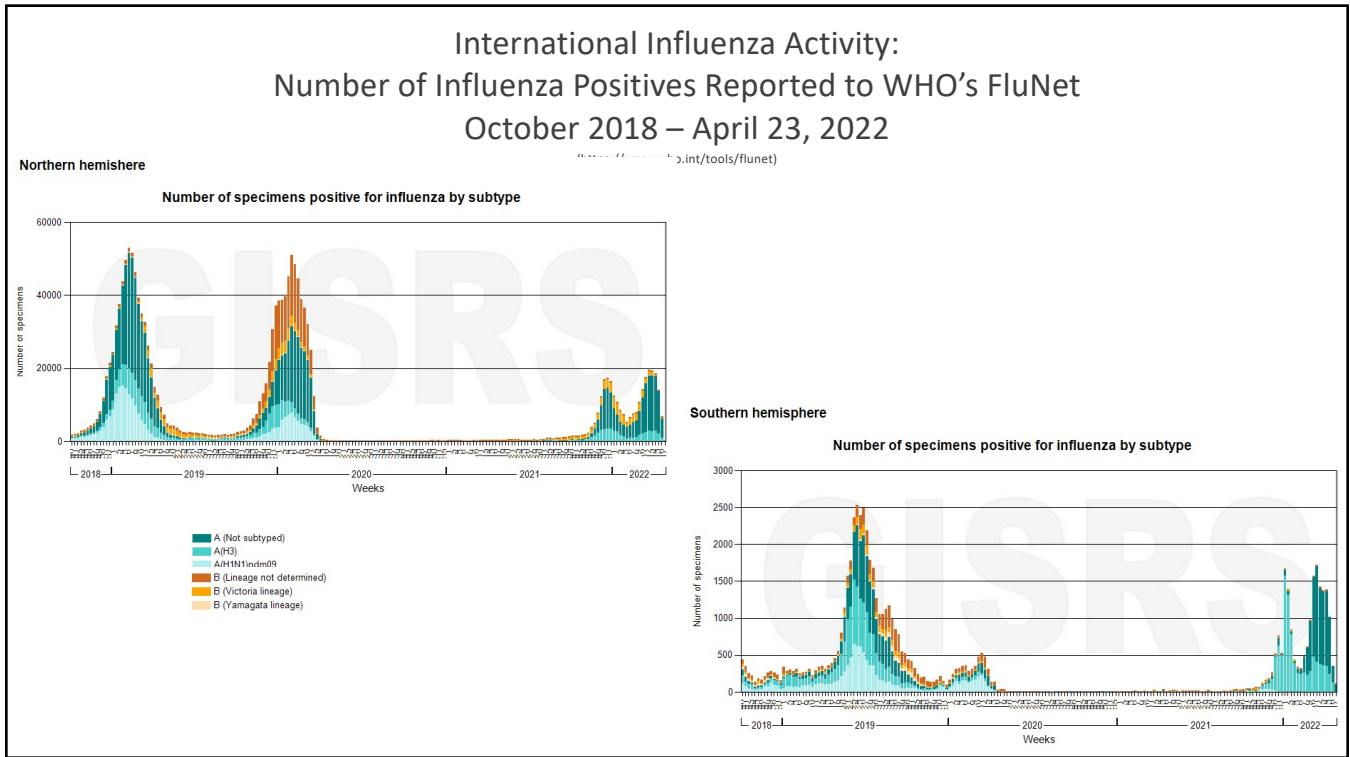
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Highly Pathogenic Avian Influenza (HPAI) A(H5N1): U.S. Status as of May 4, 2022

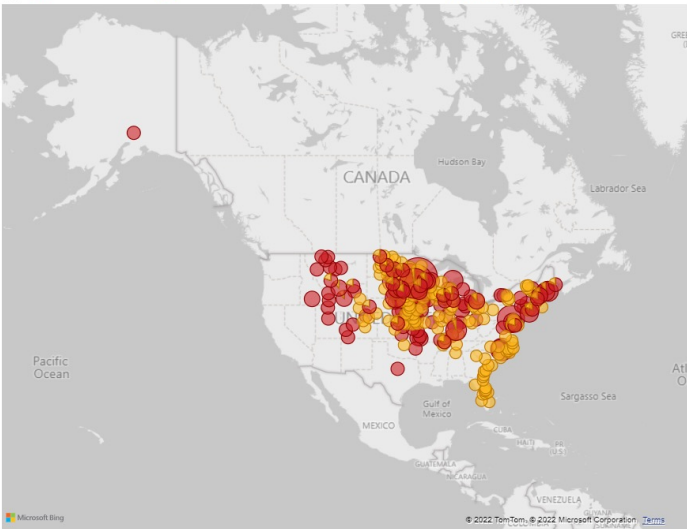
2022 H5N1 Highly Pathogenic Avian Influenza, United States

- Continued detections of HPAI H5N1 in birds
 - Wild birds - 34 states
 - Commercial poultry and backyard flocks – 32 states
- More information
 - CDC: <https://www.cdc.gov/flu/avianflu/avian-flu-summary.htm>
 - USDA: <https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/animal-disease-information/avian/avian-influenza/2022-hpai>

5/4/2022 9:37 AM

Last Data Refresh

Type ● Confirmed Outbreak ● Wild Bird Detection



Data source: USDA APHIS

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Highly Pathogenic Avian Influenza (HPAI) A(H5N1): Monitoring Exposed People

- Persons monitored since start of bird activity: ~2600
- Persons with symptoms ~70
- Persons tested: >80
- Persons with H5 detected: 1
 - Close, prolonged exposure to infected birds and their environment
 - Only reported symptom was fatigue, resolved after 3 days
 - Specimen collected 4/20 – H5 detected
 - Second specimen collected 4/26 - negative
 - No known human-to-human transmission
 - No other workers on that farm or close contacts with the H5 positive person were positive for H5
 - Infection vs transient nasal contamination?

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Summary

- Seasonal influenza activity continues to increase in some areas of the country.
 - It is an unusual time of year for flu activity to be increasing.
 - Activity remains low compared to pre-COVID influenza seasons.
- Vast majority of flu viruses circulating are influenza A/H3N2.
- HPAI H5 outbreak is continuing (expanding) in birds in the U.S.
- First human detection of H5 was reported.
 - No known human to human transmission from this individual.
 - Risk to those exposed to poultry and wild birds may be increased as outbreaks continue
 - Risk to general public is low

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Additional Information

Influenza Activity

- FluView
 - <https://www.cdc.gov/flu/weekly/index>
- FluView Interactive
 - <https://www.cdc.gov/flu/weekly/fluviewinteractive.htm>
- WHO's FluNet
 - <https://www.who.int/tools/flunet>

Other Respiratory Virus Activity

- COVID Data Tracker Weekly Review
 - <https://www.cdc.gov/coronavirus/2019-ncov/covid-data/covidview/index.html>
- COVID Data Tracker
 - <https://covid.cdc.gov/covid-data-tracker/#datatracker-home>
- National Respiratory Virus Surveillance System (NREVSS)
 - <https://www.cdc.gov/surveillance/nrevss/index.html>