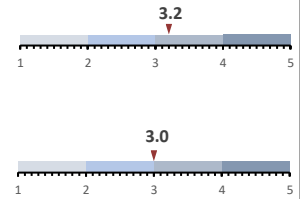


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

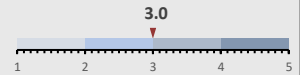
Influenza A (H5N1 & H3N2v)

- ◆ The source of infection for the human influenza A(H5N1) case in **Missouri** remains unknown; the CDC has also identified a second health care worker contact who had developed mild respiratory symptoms but was not tested for influenza as the illness had resolved before the investigation began (serologic testing will be offered) [Read More](#)
- ◆ **Minnesota** has reported two human infections with novel influenza A(H3N2) variant; both patients are <18 years of age, attended the same agricultural fair prior to illness onset, had direct (first child) and indirect (second child) contact with swine, sought healthcare during the week ending September 7, 2024, were not hospitalized, and have recovered from their illnesses [Read More](#)

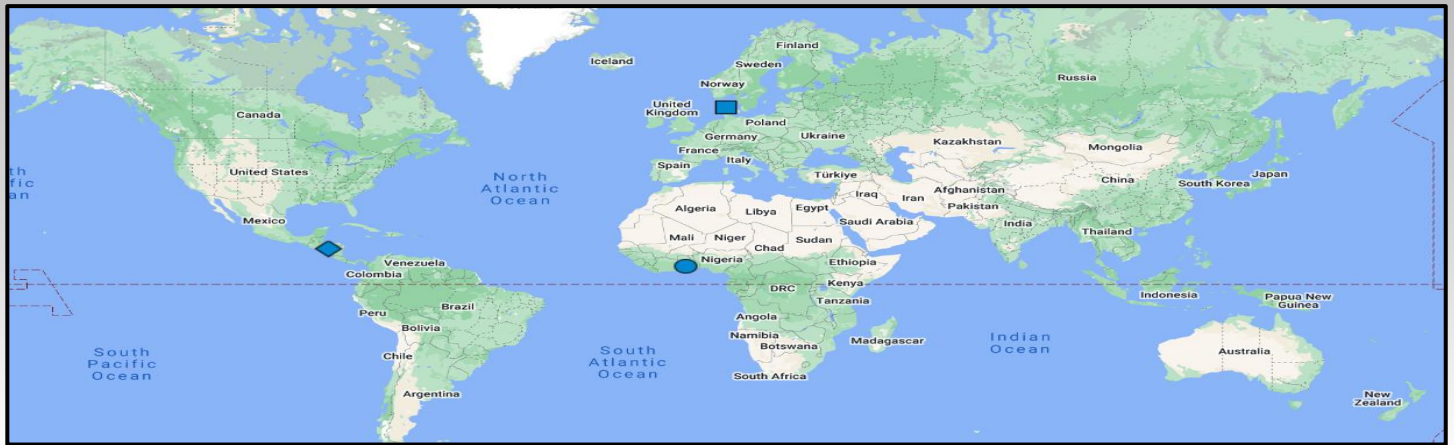


Highly Pathogenic Avian Influenza

- ◆ As of September 23, 2024, the USDA has reported influenza A(H5N1) in a total of 232 dairy herds across 14 states: **Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Iowa(13), Texas(26), Michigan(29), Idaho(32), California(34), and Colorado(64)** [Read More](#)
- ◆ The 24 recent outbreaks have all been reported from **California**



NEW EVENTS: (events rated > 2)



Influenza A(H9N2) virus in Ghana

Pathogen: virus; **Transmission:** direct contact, aerosol, fomite; **Species affected in event:** human

① Ghana has confirmed its first human case of influenza A(H9N2). The patient is a child under 5-years-old, from the Upper East region, with no known history of exposure to poultry or any sick person prior to onset of symptoms. The onset occurred on May 5, 2024, characterized by a sore throat, fever, and cough. Respiratory samples collected on May 7, tested positive for seasonal influenza A(H3N2) via PCR. On July 9, genomic sequence analysis conducted by Ghana indicated an avian influenza A(H9). On August 6, the CDC confirmed the samples positive for influenza A(H9N2). [Read More](#)

Avg. Rating	2.8
No. of Signal	1
No. of Ratings	4

Usutu virus in Denmark

Pathogen: virus; **Transmission:** vector – mosquito; **Species affected in event:** blackbird

① For the first time, different parts of Denmark have reported positive detections of Usutu virus in birds (two adult blackbirds and one juvenile). Similarly unusual symptoms have been observed in blackbirds in several other places in the country over the summer. [Read More](#)

Avg. Rating	2.6
No. of Signal	1
No. of Ratings	6

New World Screwworm in Honduras

Pathogen: parasitic fly; **Transmission:** wound myiasis; **Species affected in event:** equine

① Honduras has reported a recurrence of New World Screwworm, previously reported in 1996. On September 10, 2024, one case was detected in a group of 68 equines that had illegally entered into Honduras, with several of them showing wounds. No cases were detected in the other equines during the clinical inspection. The case was identified 8 km from the border with the Republic of Nicaragua (which has been reporting increasing activity of the New World Screwworm). An additional two cases were then detected on September 11, in the same region. [Read More](#)

Avg. Rating	2.4
No. of Signal	1
No. of Ratings	5

CONTINUED EVENTS: (events rated ≥ 2.4)

Influenza A (H5N1 & H3N2v) in the USA <ul style="list-style-type: none"> The source of infection for the human influenza A(H5N1) case in Missouri remains unknown; the CDC has also identified a second health care worker contact who had developed mild respiratory symptoms but was not tested for influenza as the illness had resolved before the investigation began (serologic testing will be offered) Minnesota has reported two human infections with novel influenza A(H3N2) variant; both patients are <18 years of age, attended the same agricultural fair prior to illness onset, had direct (first child) and indirect (second child) contact with swine, sought healthcare during the week ending September 7, 2024, were not hospitalized, and have recovered from their illnesses 	No. of Signals: 05	No. of weeks in report: 22	Avg. Rating: 3.0 - 3.2
Highly Pathogenic Avian Influenza in North America <ul style="list-style-type: none"> Canada has not reported any outbreaks of HPAI in domestic poultry over the last week Over the last week, the USDA has reported outbreaks of HPAI in commercial poultry in: California(1); and in a live bird market in: Florida(1) As of September 23, 2024, the USDA has reported influenza A H5N1 in a total of 234 dairy herds across 14 states: Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Iowa(13), Texas(26), Michigan(29), Idaho(32), California(34), and Colorado(64); all 24 recent outbreaks were reported from California Wastewater surveillance dashboards for influenza can be found at the CDC and Stanford University's WastewaterSCAN 	No. of Signals: 07	No. of weeks in report: 134	Avg. Rating: 1.1 - 3.0
Bluetongue Virus in Europe <ul style="list-style-type: none"> The UK, Denmark, Switzerland, Sweden, Norway, Luxembourg, and France have reported additional outbreaks of BTV-3 	No. of Signals: 04	No. of weeks in report: 14	Avg. Rating: 2.3 - 2.8
West Nile Virus in Canada <ul style="list-style-type: none"> Ontario has reported two additional human cases of WNV, one in Waterloo region (the first case since 2018) and the other in Vaughan Ontario has also reported additional cases of WNV in horses, one in Lambton county and the other in the district of Sudbury 	No. of Signals: 04	No. of weeks in report: 14	Avg. Rating: 2.0 - 2.5
African Swine Fever in Europe <ul style="list-style-type: none"> In Italy, inspections part of a broader ASF monitoring and prevention plan led to a large seizure of >5,600kg of meat contaminated with ASF; inspections were focused on commercial establishments (ethnic food stores, processing plants, and restaurants) mainly in the province of Ferrara, but also extended to Forli, Rimini, Ravenna, and Bologna Italy has reported additional cases of ASF in domestic swine and wild boar Ukraine has reported an outbreak of ASF in domestic swine Poland has reported cases of ASF in wild boar Due to the recent spread of ASF in wild boars in Germany, France has raised its ASF surveillance level in order to mobilize more field actors and increase the reporting, collection, analysis of wild boar carcasses 	No. of Signals: 07	No. of weeks in report: 159	Avg. Rating: 1.6 - 2.5
Influenza A (H9N2) in China <ul style="list-style-type: none"> China has reported another human case of influenza A(H9N2), its sixth of the year, in a 3-year-old girl from Guangdong province with symptom onset August 12, 2024; no details are available regarding the source of infection or her current condition 	No. of Signals: 01	No. of weeks in report: 61	Avg. Rating: 2.4
Highly Pathogenic Avian Influenza in Europe <ul style="list-style-type: none"> Germany and the Czech Republic have reported outbreaks of HPAI H5N1 in domestic poultry France has reported cases of HPAI H5N1 in wild birds A summary of the overall HPAI situation in Europe is available here 	No. of Signals: 04	No. of weeks in report: 191	Avg. Rating: 2.0 - 2.3
Highly Pathogenic Avian Influenza in Africa <ul style="list-style-type: none"> South Africa has reported an outbreak of HPAI H7N6 in commercial ostriches in Eastern Cape (started July 9 and ended August 5, 2024) 	No. of Signals: 02	No. of weeks in report: 73	Avg. Rating: 2.1 - 2.2
Highly Pathogenic Avian Influenza in Asia <ul style="list-style-type: none"> Taiwan has reported an outbreak of HPAI H5N1 in domestic poultry Israel has reported a second outbreak of HPAI H5N1 in domestic poultry in HaZafon 	No. of Signals: 03	No. of weeks in report: 155	Avg. Rating: 2.0

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

Coronavirus

- ◆ Pre-print: Ongoing evolution of Middle East Respiratory Syndrome Coronavirus, Kingdom of Saudi Arabia, 2023-2024 [Read More](#)
- ◆ The comparison of pathogenicity among SARS-CoV-2 variants in domestic cats [Read More](#)

Influenza

- ◆ CDC - Wastewater Surveillance for Influenza A Virus and H5 Subtype Concurrent with the Highly Pathogenic Avian Influenza A(H5N1) Virus Outbreak in Cattle and Poultry and Associated Human Cases — United States, May 12–July 13, 2024 [Read More](#)
- ◆ An Update on Highly Pathogenic Avian Influenza A(H5N1) Virus, Clade 2.3.4.4b [Read More](#)
- ◆ Evolution and mutational landscape of highly pathogenic avian influenza strain A(H5N1) in the current outbreak in the USA and global landscape [Read More](#)
- ◆ Personal Protective Equipment Guidance for Highly Pathogenic Avian Influenza H5N1 Should Be Adapted to Meet the Needs of Dairy Farm Workers [Read More](#)
- ◆ Genomic characterization of highly pathogenic H5 avian influenza viruses from Alaska during 2022 provides evidence for genotype-specific trends of spatiotemporal and interspecies dissemination [Read More](#)

Mpox

- ◆ Public Health Ontario – Enhanced Epidemiological Summary – Mpox in Ontario: January 1 to September 7, 2024 [Read More](#)
- ◆ WHO – Mpox- Multi-country External Situation Report n. 37, published 22 September 2024 [Read More](#)
- ◆ UKHSA - Mpox: scenarios and technical elements of preparedness and response for clade I Technical briefing 9 [Read More](#)

Vectors and Vector borne Diseases

- ◆ Fatal Oropouche Virus Infections in Nonendemic Region, Brazil, 2024 [Read More](#)

Other

- ◆ Temporal Characterization of Prion Shedding in Secreta of White-Tailed Deer in Longitudinal Study of Chronic Wasting Disease, United States [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 24/09/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 14 - 20 September 2024, week 38 [Read More](#)

Disclaimer

This intelligence report is intended to provide information to risk managers about emerging and zoonotic disease events that could pose a threat to Canada. It is based on information signals acquired and selected from twenty-one distinct disease surveillance sources via the Knowledge Integration using Web-based Intelligence (KIWI) tool hosted on the Canadian Network for Public Health Intelligence (CNPHI) informatics platform. The report is based on the activities of the CEZD Community of Practice and subject to change based on evolving user needs.