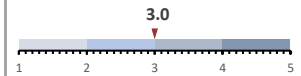


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

Highly Pathogenic Avian Influenza

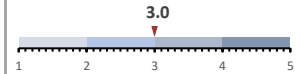
- ◆ As of January 20, 2025, the USDA has reported influenza A(H5N1) in 929 dairy herds across 16 states: **Nevada(1), Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Iowa(13), Utah(13), Texas(27), Michigan(30), Idaho(35), Colorado(64), and California(712)**
 - The recent outbreaks were reported from **California(4)** and **Michigan(1)**

[Read More](#)

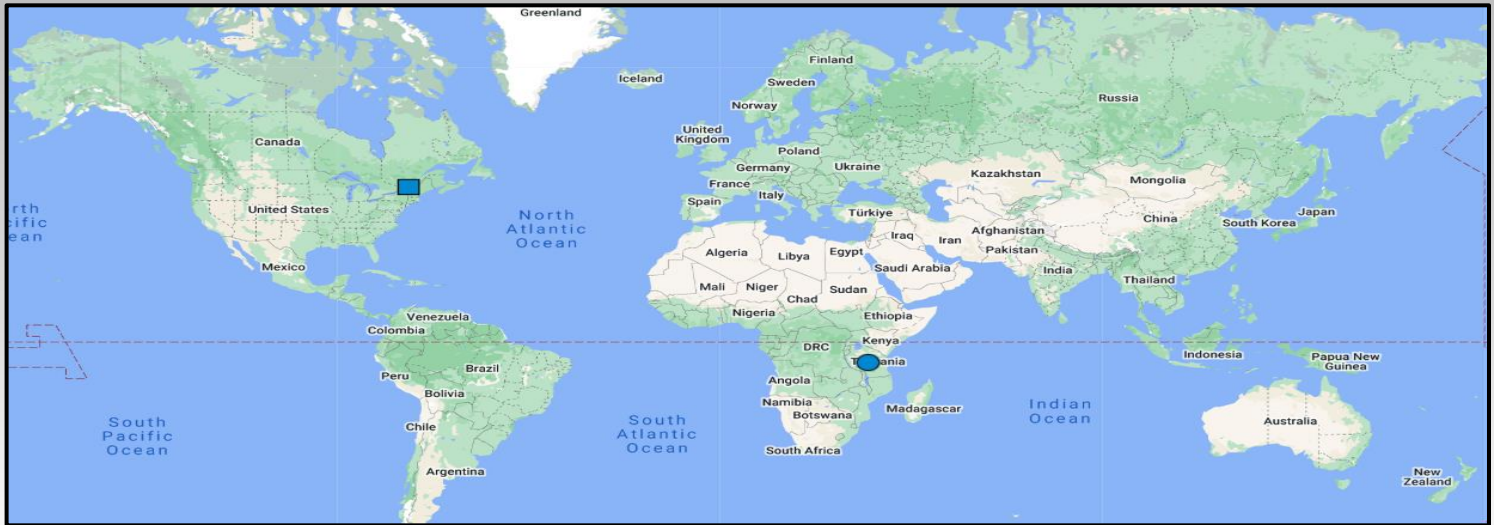


- ◆ In **California, Los Angeles County** has confirmed HPAI H5 in three additional cats and in one raw pet food (Monarch Raw Pet Food)

[Read More](#)



NEW EVENTS: (events rated > 2)



■ Raccoon variant Rabies in Quebec

Pathogen: virus; **Transmission:** direct contact; **Species affected in event:** raccoon

① Quebec has reported its first case of raccoon rabies since 2015. A raccoon infected with the rabies virus was found dead in Saint-Armand, in the Eastern Townships, on December 17, 2024. It was recovered the same day for analysis. The animal was found ~1.4 kilometers from where a case was discovered in early December in the municipality of Highgate, Vermont. Over the past year, several cases of raccoon rabies have been detected in northern Vermont. Tests carried out on raccoons in January 2025 confirmed that the raccoon variant is involved.

[Read More](#)

Avg. Rating	2.6
No. of Signal	1
No. of Ratings	5

● Marburg virus disease in Tanzania

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

① Tanzania has declared a Marburg virus disease (MVD) outbreak after [confirming one case](#) and identifying 25 suspected cases in the Kagera Region of Northwestern Tanzania. The cases presented with similar symptoms of headache, high fever, back pain, diarrhoea, haematemesis (vomiting with blood), malaise (body weakness) and, at a later stage of disease, external haemorrhage (bleeding from orifices). Contacts, including healthcare workers, are reported to have been identified and are under follow-up. The Kagera region experienced its first MVD outbreak in March 2023, and zoonotic reservoirs, such as fruit bats, remain endemic to the area. The outbreak in March 2023 lasted for nearly two months with nine cases including six deaths.

[Read More](#)

Avg. Rating	2.0 - 2.2
No. of Signal	2
No. of Ratings	5

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America **No. of Signals: 17** **No. of weeks in report: 151** **Avg. Rating: 1.2 - 3.0**

- [Canada](#) has not reported any outbreaks of HPAI over the last week
- Over the last week, the [USDA](#) has reported outbreaks of HPAI in commercial poultry in: Ohio(9), Maryland(2), Indiana(2), Georgia(1), Minnesota(1), Missouri(1), and California(1); in WOAHP poultry in: New York(1); in WOAHP non-poultry in: Idaho(1), Connecticut(1), Tennessee(1), and Michigan(1); and in live bird markets in: Florida(2)
- As of January 20, 2025, the [USDA](#) has reported influenza A (H5N1) in 929 dairy herds across 16 states; Nevada(1), Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), [Minnesota](#)(9), New Mexico(9), Iowa(13), Utah(13), Texas(27), [Michigan](#)(30), Idaho(35), [Colorado](#)(64), and California(712); the recent outbreaks were reported from California(4) and Michigan(1)
- The [USDA](#) has updated their list of HPAI H5N1 detections in mammals bringing the total number of detections to 471, 74 of which are in domestic cats
- In [California](#), Los Angeles County has confirmed HPAI H5 in three additional cats and in one raw pet food (Monarch Raw Pet Food)
- The FDA has issued a [directive](#) to raw pet food manufacturers, that they must now consider HPAI as a known or reasonably foreseeable hazard in their food safety plans
- In [Chicago](#), the Lincoln Park Zoo has confirmed HPAI as the cause of death for a Chilean flamingo and a harbor seal
- In [Florida](#), three Indian River Lagoon dolphins are suspected to have died from HPAI at the end of 2023
- [Mexico](#) has reported multiple cases of HPAI H5N1 in wild birds observed in November–December 2024
- Wastewater surveillance dashboards for influenza can be found at the [CDC](#) and Stanford University's [WastewaterSCAN](#)
- The CDC has issued a [Health Alert Network Advisory](#) in an effort to accelerate the subtyping of all influenza A specimens among hospitalized patients

Foot and Mouth Disease in Germany **No. of Signals: 07** **No. of weeks in report: 02** **Avg. Rating: 1.7 - 2.8**

- [Germany](#) has not reported any new cases of FMD, with a suspect case in goats found to be negative for the disease
- DEFRA has released a [preliminary outbreak assessment](#) of the FMD situation in water buffalo in Germany, concluding the risk of incursion of FMD to the UK and risk level has increased to medium

Influenza A(H10N3, H9N2) in China **No. of Signals: 02** **No. of weeks in report: 63** **Avg. Rating: 2.2 - 2.6**

- [China](#) has recently reported one additional human case of H10N3 (the fourth case since 2021) in a 23-year-old woman from Guangxi Zhuang Autonomous Region with symptom onset reported on December 12, 2024; as well as two additional human cases of H9N2, both in children, with onsets from late November to mid December 2024

Highly Pathogenic Avian Influenza in Europe **No. of Signals: 14** **No. of weeks in report: 207** **Avg. Rating: 2.0 - 2.5**

- [Italy](#) has confirmed a case of HPAI in a domestic cat that resided in close proximity to a small poultry farm where HPAI had previously been detected
- [Albania](#), [Poland](#), [Slovakia](#), [Italy](#), [Hungary](#), the [Czech Republic](#), and [Germany](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [France](#), [Poland](#), and [Iceland](#) have reported cases of HPAI H5N1 in wild birds
- In [Germany](#), HPAI H5N1 has been confirmed as the cause of death of three white storks that died at Gut Mittelbüg; the Nuremberg Zoo has closed as a precaution
- A summary of the overall HPAI situation in Europe is available [here](#)

New World Screwworm in Central/North America **No. of Signals: 02** **No. of weeks in report: 21** **Avg. Rating: 1.8 - 2.4**

- As of January 11, 2025, according to [COPEG](#), Panama has reported 24,696 cases of NWS, Costa Rica has reported 13,014 cases, Nicaragua has reported 9,279 cases, Honduras has reported 311 cases, Guatemala has reported 89 cases, Mexico has reported 3 cases, Belize has reported 2 cases, and El Salvador has reported 2 cases
- [Mexico](#) has reported additional cases of NWS, 13 cases in the state of Chiapas and one case in Campeche
- Effective January 21, 2025, the USDA-APHIS will again [permit the importation](#) of equines from Mexico with additional mitigations to guard against introduction of NWS

Highly Pathogenic Avian Influenza in Asia **No. of Signals: 07** **No. of weeks in report: 171** **Avg. Rating: 2.0 - 2.2**

- [Taiwan](#), [Japan](#), and [South Korea](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [India](#) has reported HPAI in dead cranes in Jaisalmer
- [Mongolia](#) has reported HPAI H5N1 detections in fecal samples at Ganga Lake from October 2024

Highly Pathogenic Avian Influenza in Africa **No. of Signals: 02** **No. of weeks in report: 75** **Avg. Rating: 2.0**

- [Nigeria](#) has confirmed an outbreak of HPAI H5N1 in domestic poultry in Kano state

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

Chronic Wasting Disease

- ◆ Detection of Prions in Wild Pigs (*Sus scrofa*) from Areas with Reported Chronic Wasting Disease Cases, United States [Read More](#)
- ◆ Prions in Muscles of Cervids with Chronic Wasting Disease, Norway [Read More](#)
- ◆ Detection of Chronic Wasting Disease Prions in Raw, Processed, and Cooked Elk Meat, Texas, USA [Read More](#)

Coronavirus

- ◆ Bat coronavirus surveillance across different habitats in Yucatán, México [Read More](#)

Influenza

- ◆ Pathogenesis of bovine H5N1 clade 2.3.4.4b infection in Macaques [Read More](#)
- ◆ Pre-print: The Q226L mutation can convert a highly pathogenic H5 2.3.4.4e virus to bind human-type receptors [Read More](#)
- ◆ The Haemagglutinin Gene of Bovine-Origin H5N1 Influenza Viruses Currently Retains Receptor-binding and pH-fusion Characteristics of Avian Host Phenotype [Read More](#)
- ◆ Clade 2.3.4.4b but not historical clade 1 HA replicating RNA vaccine protects against bovine H5N1 challenge in mice [Read More](#)
- ◆ Selected microwave irradiation effectively inactivates airborne avian influenza A(H5N1) virus [Read More](#)
- ◆ Human Infection with Avian Influenza A(H9N2) Virus, Vietnam, April 2024 [Read More](#)

Mpox

- ◆ ECDC Epidemiological update, 14 January 2025: Mpox due to monkeypox virus clade I [Read More](#)

Other

- ◆ Neuropathology, pathomechanism, and transmission in zoonotic Borna disease virus 1 infection: a systematic review [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 21/01/2025 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 11 - 17 January 2025, week 3 [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.