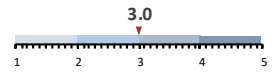


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

Influenza A(H5N1)

- Spain has reported an additional case of influenza A(H5N1) in a poultry worker from the same farm as the first reported case; this second worker tested negative during the first round of testing (when the first case was identified), but positive on the second round of testing

[Read More](#)



Highly Pathogenic Avian Influenza

- Over the last week, Canada has reported outbreaks of HPAI H5N1 in commercial poultry in: **Alberta(1)** and **Quebec(2)**; and in non-commercial non-poultry in: **Quebec(1)**

[Read More](#)



NEW EVENTS: (events rated > 2)



Unknown disease killing pigs in Chin State, Myanmar

Pathogen: Unknown ; **Transmission:** Unknown ; **Species affected in event:** Swine

The death rate of pigs in Hakha, Chin State has been rising since the end of September due to an unknown infectious disease. It is estimated that more than 100 pigs in the city have already died. The infected pigs can't even eat properly, are lying down all the time, and also suffer from constipation. While the symptoms in some pigs may only last a week, in general once the pigs are infected with the disease, they only have a 50 percent chance of survival. Since there are no advanced laboratories in Chin State, it is not yet possible to confirm the exact type of disease occurring in the pigs. In the Indian state of Mizoram, which borders Chin State, more than 40000 pigs have died in 18 months due to African swine fever.

[Read More](#)

Avg. Rating	2.7
No. of Signal	1
No. of Ratings	6

CONTINUED EVENTS: (events rated ≥ 2.4)

Influenza A(H5N1) in Spain **No. of Signals: 02** **No. of weeks in report: 02** **Avg. Rating: 2.8 - 3.0**

- [Spain](#) has reported an additional case of influenza A(H5N1) in a poultry worker who worked on the same farm as the first reported case and tested negative during the first round of testing (when the first case was identified), but positive on the second round of testing

Highly Pathogenic Avian Influenza in North America **No. of Signals: 09** **No. of weeks in report: 43** **Avg. Rating: 1.3 - 3.0**

- Over the last week, [Canada](#) reported outbreaks of HPAI H5N1 in commercial poultry in: Alberta(1) and Quebec(2); and in non-commercial non-poultry in: Quebec(1)
- Over the last week, the [USDA](#) has reported outbreaks of HPAI H5N1 in commercial poultry in: Mississippi, Pennsylvania, Minnesota, South Dakota, and Iowa; in backyard poultry in: Tennessee, Oregon, New York, Montana, Wisconsin, Pennsylvania, New Jersey, Arizona, South Carolina, North Dakota, Massachusetts, Florida, and California
- [Mexico](#) has reported two outbreaks of HPAI H5N1 in commercial poultry in Sonora

Influenza A(H3N2) in the USA **No. of Signals: 01** **No. of weeks in report: 08** **Avg. Rating: 2.5**

- [New Mexico](#) has reported a human infection with a novel influenza A(H3N2) variant virus in mid-October, in a patient <18 years of age who had swine exposure prior to their illness onset
- A total of ten human infections with variant novel influenza A viruses have been reported in the USA in 2022, including five H3N2v (Michigan, New Mexico, West Virginia (3)) and five H1N2v (Georgia, Michigan, Ohio, Oregon, Wisconsin) viruses

Ebola Virus in Uganda **No. of Signals: 06** **No. of weeks in report: 06** **Avg. Rating: 1.9 - 2.5**

- As of Nov 6, 2022, [Uganda](#) has confirmed 132 cases (53 deaths) of Sudan virus disease across 8 districts; the case fatality ratio among confirmed cases is 40%, there have been 61 recoveries
- In [South Sudan](#), health authorities in the border town of Nimule in Eastern Equatoria State have said that at least two people who presented with signs and symptoms of Ebola are currently undergoing medical investigation at Nimule Hospital
- [Nigeria](#) has completed a risk assessment identifying they are at high risk of importing Ebola virus due to the large volume of air travel between Nigeria and Uganda and the mixing of passengers at the regional travel hubs of Nairobi, Addis Ababa, and Kigali airports as well as the additional risk from other neighbouring countries that share a direct border with Uganda should cases arise in other countries in the region

Highly Pathogenic Avian Influenza in Europe **No. of Signals: 09** **No. of weeks in report: 99** **Avg. Rating: 2.0 - 2.2**

- The [Netherlands](#), [Poland](#), [Hungary](#), and [Russia](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [Ireland](#) and [Sweden](#) have reported HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

Highly Pathogenic Avian Influenza in Asia **No. of Signals: 01** **No. of weeks in report: 76** **Avg. Rating: 2.0**

- [Japan](#) has detected its first outbreaks of HPAI for the 2022 season, one at a poultry farm on the main island of Honshu and the other outbreak found on the northern island of Hokkaido

SCIENTIFIC FINDINGS & REPORTS:

Chronic Wasting Disease

- ◆ Emergence of CWD strains [Read More](#)
- ◆ Impact of landcover composition and density of localized deer culling sites on chronic wasting disease prevalence [Read More](#)
- ◆ Cause Of Death, Pathology, And Chronic Wasting Disease Status Of White-Tailed Deer (*Odocoileus Virginianus*) Mortalities In Wisconsin, USA [Read More](#)

Influenza

- ◆ Antigenic Characterization and Pandemic Risk Assessment of North American H1 Influenza A Viruses Circulating in Swine [Read More](#)
- ◆ Genetic, biological and epidemiological study on a cluster of H9N2 avian influenza virus infections among chickens, a pet cat, and humans at a backyard farm in Guangxi, China [Read More](#)

Monkeypox

- ◆ Transmission dynamics of monkeypox in the United Kingdom: contact tracing study [Read More](#)
- ◆ Monkeypox: Re-Emerging Zoonotic Threat [Read More](#)

Vectors and Vector-borne Disease

- ◆ Asian Longhorned Tick reported in northern Georgia [Read More](#)

Other

- ◆ First report and genetic characterization of Seneca Valley virus (SVV) in Chile [Read More](#)
- ◆ SHIC - November Global Swine Disease Monitoring Report [Read More](#)
- ◆ SHIC - November Domestic Swine Disease Monitoring Report [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.