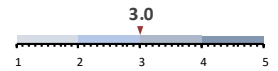


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

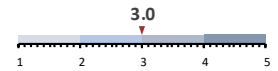
Highly Pathogenic Avian Influenza

- Over the last week, **Canada** has reported outbreaks of HPAI H5N1 in commercial poultry in: **Saskatchewan(1)**; non-commercial poultry in: **Saskatchewan(1)**; and in non-commercial non-poultry in: **Alberta(1)**
- Japan** has reported for the first time HPAI H5N2, in a large-billed crow in **Hokkaido**

[Read More](#)



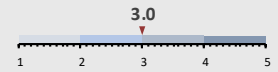
[Read More](#)



Brucellosis

- Wyoming** has reported that blood from one cow, from **Sublette County**, has suspect results to tests for Brucellosis; further diagnostic testing will be completed following necropsy of the suspect cow at the Wyoming State Diagnostic Lab

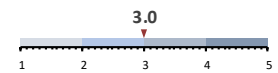
[Read More](#)



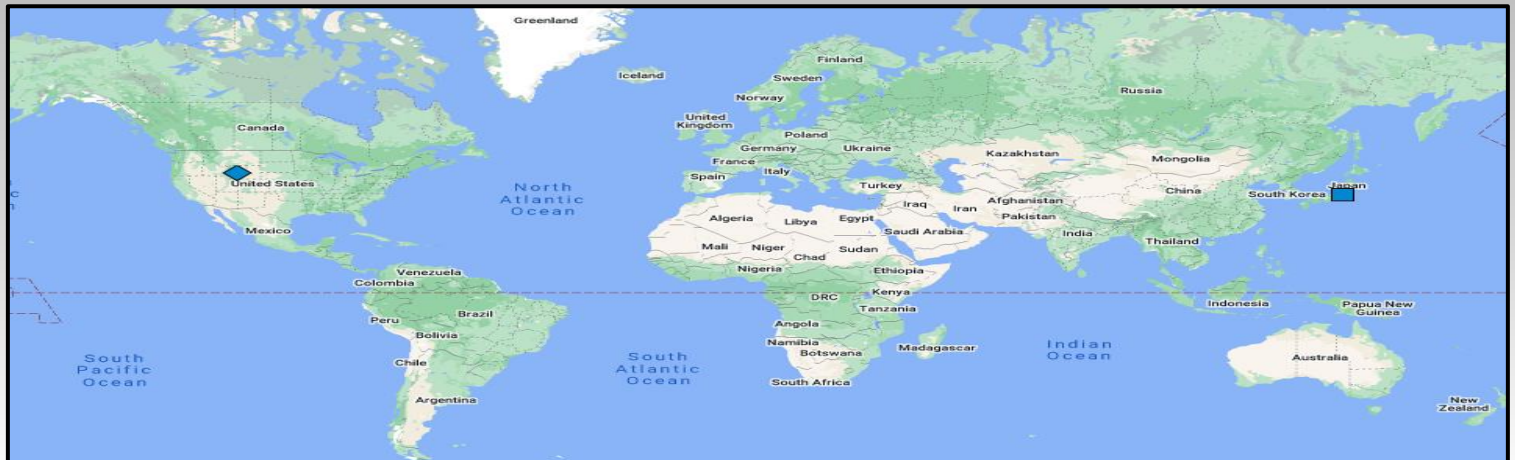
Ebola

- According to modelling data, **Uganda's** Ebola outbreak is expected to become one of its worst, resulting in 1,200 cases and 499 fatalities by late April

[Read More](#)



NEW EVENTS: (events rated > 2)



- Highly Pathogenic Avian Influenza H5N2 in Japan**
Pathogen: Virus ; **Transmission:** Direct contact, aerosol, fomite; **Species affected in event:** Large-billed crow
 ① Japan has reported for the first time HPAI H5N2, in a large-billed crow in Hokkaido. Some species of crows, such as large-billed crow, are synanthropic and carnivorous, feeding on carcasses of animals. A common route by which they may be exposed to HPAI viruses is by feeding on dead chicken at an infected poultry farm. [Read More](#)

Avg. Rating	3.0
No. of Signal	1
No. of Ratings	3

- Brucellosis in Wyoming**
Pathogen: Bacteria ; **Transmission:** Direct contact, fomite; **Species affected in event:** Cow, elk
 ① Wyoming has reported that blood from one cow, from Sublette County, has suspect results to tests for Brucellosis. Further diagnostic testing will be completed following necropsy of the suspect cow at the Wyoming State Diagnostic Lab. The Wyoming Livestock Board is working with USDA APHIS and the herd owner to complete a whole herd Brucellosis test. An epidemiologic investigation has been initiated. [Read More](#)

Avg. Rating	2.5 - 3.0
No. of Signal	3
No. of Ratings	3 - 4

Wyoming also recently reported that Brucellosis has been detected in Elk Hunt Area 45. The disease was confirmed after a blood sample from a bull elk harvested by a hunter was submitted to the Wildlife Health Laboratory for testing in late October. The detection was subsequently confirmed by the National Veterinary Services Laboratory in Ames, Iowa. [Read More](#)

Note: Sublette County falls under Elk Hunt Area 97, different from where the bull elk was harvested.

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America No. of Signals: 12 No. of weeks in report: 44 Avg. Rating: 2.0 - 3.0

- Over the last week, [Canada](#) reported outbreaks of HPAI H5N1 in commercial poultry in: Saskatchewan(1); non-commercial poultry in: Saskatchewan(1); and in non-commercial non-poultry in: Alberta(1)
- Over the last week, the [USDA](#) has reported outbreaks of HPAI H5N1 in commercial poultry in: Wisconsin and Pennsylvania; in backyard poultry in: Wyoming, Virginia, Ohio, Washington, Iowa, and North Dakota; and in “other” domestic poultry in Michigan
- [Mexico](#) has so far confirmed the presence of HPAI H5N1 in nine states; Senasica has ordered the strategic vaccination of poultry to protect poultry production - in the first instance, to protect the progenitor and reproductive birds (since they are the origin of the productive chain)

Ebola Virus in Uganda No. of Signals: 06 No. of weeks in report: 07 Avg. Rating: 1.5 – 3.0

- As of Nov 14, 2022, [Uganda](#) has confirmed 139 cases (55 deaths) of Sudan virus disease with a case fatality ratio among confirmed cases of 40%
- According to [modelling data](#), Uganda’s Ebola outbreak is expected to become one of its worst, resulting in 1,200 cases and 499 fatalities by late April
- An Ebola case has been confirmed in [Jinja](#) in eastern Uganda, the first time the outbreak has spread to a new region of the country from central Uganda
- [Uganda](#) will close schools nationwide later this month after 23 Ebola cases were confirmed among pupils, including eight children who died
- Health experts in [Uganda](#) have asked breastfeeding mothers to wean their babies after contracting and being cured of the Ebola virus disease, and introduce them to breastmilk substitutes

Highly Pathogenic Avian Influenza in Asia No. of Signals: 04 No. of weeks in report: 77 Avg. Rating: 2.0 – 2.3

- [Japan](#) has reported an outbreak of HPAI H5N1 in domestic poultry in Kagawa
- [India](#) has reported HPAI H5N1 in backyard ducks in Kerala

Highly Pathogenic Avian Influenza in Europe No. of Signals: 15 No. of weeks in report: 100 Avg. Rating: 2.0 – 2.2

- [Germany](#), [France](#), [Hungary](#), [Ireland](#), [Serbia](#), and [Austria](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [Belgium](#) and [Serbia](#) have reported HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

SCIENTIFIC FINDINGS & REPORTS:

Influenza

- ◆ Pathogenicity and Transmissibility of Clade 2.3.4.4h H5N6 Avian Influenza Viruses in Mammals [Read More](#)
- ◆ Etiologic characteristics of avian influenza H11 viruses isolated from the live poultry market in southeast coastal region in China [Read More](#)
- ◆ Prevalence of the H5N8 influenza virus in birds: Systematic review with meta-analysis [Read More](#)
- ◆ Emergence of equine influenza virus H3Nx Florida clade 2 in Arabian racehorses in Egypt [Read More](#)

Monkeypox

- ◆ Epidemiologic and Clinical Features of Children and Adolescents Aged <18 Years with Monkeypox — United States, May 17–September 24, 2022 [Read More](#)
- ◆ Monkeypox — A Sobering Sentinel for Pandemic Preparedness and Sexual Health System Capacity [Read More](#)
- ◆ Monkeypox virus infection in 22-year-old woman after sexual intercourse, New York, USA [Read More](#)
- ◆ Monkeypox virus infection in 18-year-old woman after sexual intercourse, France, September 2022 [Read More](#)

SARS-CoV-2

- ◆ Divergent SARS-CoV-2 variant emerges in white-tailed deer with deer-to-human transmission [Read More](#)
- ◆ Pre-print: Wildlife exposure to SARS-CoV-2 across a human use gradient [Read More](#)

Other

- ◆ Experimentally controlled study indicates that the naturally occurring recombinant vaccine-like lumpy skin disease strain Udmurtiya/2019, detected during freezing winter in northern latitudes, is transmitted *via* indirect contact [Read More](#)
- ◆ Diversity of respiratory viruses present in nasal swabs under influenza suspicion in respiratory disease cases of weaned pigs [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.