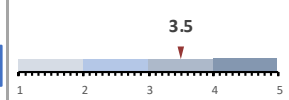


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

Canine Influenza A (H3N2)

Canine influenza A (H3N2) has been identified in a dog in **Calgary, Alberta**; the dog is suspected to have acquired the virus while participating in a dogs show in the **USA** at the end of September

[Read More](#)



Highly Pathogenic Avian Influenza

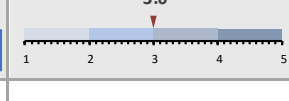
Over the last week, **Canada** has reported an outbreak of HPAI in non-commercial non-poultry in **Alberta (1)**

South Africa has reported its first outbreak of HPAI H7 in the **George** area of **WesternCape**; the **WesternCape** had previously reported outbreaks of HPAI H5N1 between April and June 2023

[Read More](#)



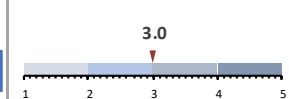
[Read More](#)



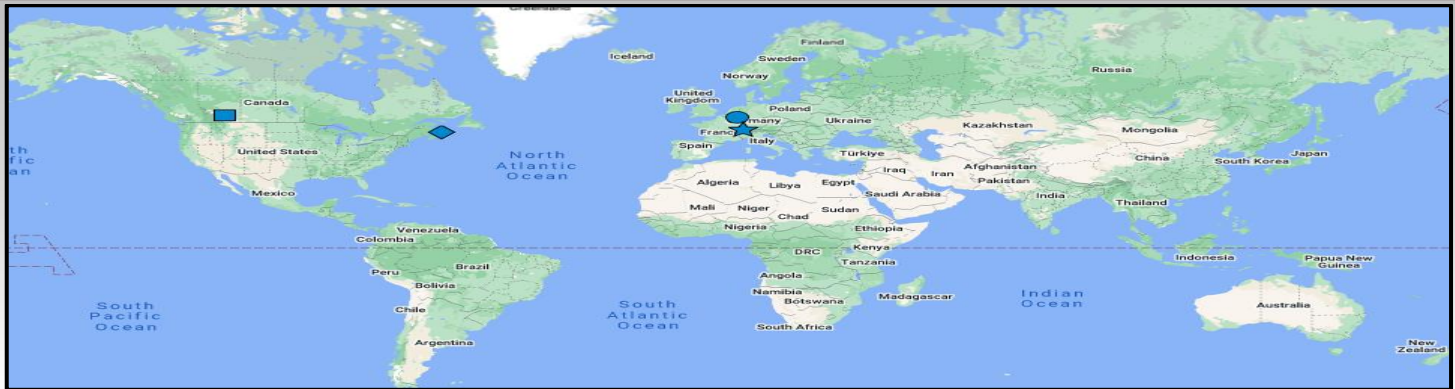
Influenza A (H5N1)

Genetic sequencing has revealed that the two recent human cases of Influenza A (H5N1) in **Cambodia** belong to the clade 2.3.2.1c, which routinely circulates in **Cambodia** and was also the cause of the two human cases in February 2023

[Read More](#)



NEW EVENTS: (events rated > 2)



Canine influenza H3N2 in Alberta

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

Canine influenza H3N2 has been identified in a dog in Calgary, Alberta. The dog is suspected to have acquired the virus while participating in a dog show in the USA at the end of September. Canine influenza H3N2 has been present in the US since 2015, but is not known to be circulating in Canada. The virus is highly transmissible in the Canadian dog population as almost no dogs have any immunity. There have also been reports of other dogs with flu-like disease in Calgary and other Alberta cities, however, without testing it cannot be determined if these cases are influenza or other routine canine respiratory infections. [Read More](#)

Avg. Rating	3.5
No. of Signal	1
No. of Ratings	2

Bluetongue virus in Belgium and Germany

Pathogen: virus; **Transmission:** vector; **Species affected in event:** sheep

Belgium has reported its first case of Bluetongue serotype 3, in a sheep in Merksplas, close to its border with the Netherlands. [Read More](#)

Germany has also reported its first case of Bluetongue serotype 3, in a sheep in Kleve, close to its border with the Netherlands. More cases are expected. Trade restrictions will be applied to affected regions. [Read More](#)

Avg. Rating	2.5 - 2.8
No. of Signal	4
No. of Ratings	2 - 4

Rabies in bat in Prince Edward Island

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

Prince Edward Island has recorded its first case of rabies in an animal since 2009. A bat found in a Queens County home tested positive for the virus at a CFIA lab in Ottawa on Sept. 13. [Read More](#)

Avg. Rating	2.7
No. of Signal	1
No. of Ratings	3

Epizootic Hemorrhagic Disease in Switzerland

Pathogen: virus; **Transmission:** vector; **Species affected in event:** cattle

Switzerland has confirmed its first case of epizootic hemorrhagic disease (EHD), in a calf on a farm in the canton of Bern. As Switzerland is no longer considered EHD-free there have been international trade restrictions on farm animals and their semen. [Read More](#)

Avg. Rating	2.3
No. of Signal	1
No. of Ratings	3

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in Africa

No. of Signals: 01

No. of weeks in report: 58

Avg. Rating: 3.0

- [South Africa](#) has reported its first outbreak of HPAI H7 in the George area of Western Cape; the Western Cape had previously reported outbreaks of HPAI H5N1 between April and June 2023

Highly Pathogenic Avian Influenza in North America

No. of Signals: 05

No. of weeks in report: 86

Avg. Rating: 2.0 - 3.0

- Over the last week, [Canada](#) has reported an outbreak of HPAI in non-commercial poultry in Alberta (1)
- Over the last week, the [USA](#) has reported outbreaks of HPAI in commercial poultry in: Minnesota, and in WOA non-poultry in: Montana, Colorado, and North Dakota

Influenza A (H5N1) in Cambodia

No. of Signals: 05

No. of weeks in report: 04

Avg. Rating: 2.0 - 3.0

- Genetic sequencing has revealed that the two recent human cases of Influenza A (H5N1) in [Cambodia](#) belong to the clade 2.3.2.1c, which routinely circulates in Cambodia and was also the cause of the two human cases in February 2023

Streptococcus zooepidemicus in North America

No. of Signals: 01

No. of weeks in report: 05

Avg. Rating: 2.8

- In [Canada](#), the emergence of a new pathogenic *Streptococcus zooepidemicus* serotype may require diagnosticians to change the way they look at identifying the infection as the use of very specific tests may underestimate the occurrence of this new serotype; ST-194 has been widely detected and now a second virulent serotype has been identified

Eastern Equine Encephalitis in Canada

No. of Signals: 01

No. of weeks in report: 05

Avg. Rating: 2.7

- [Ontario](#) has reported EEE in three unvaccinated horses in Ottawa and Leeds and Grenville

Highly Pathogenic Avian Influenza in Europe

No. of Signals: 06

No. of weeks in report: 147

Avg. Rating: 2.0 - 2.4

- [Scotland's](#) seabirds have been largely impacted by HPAI over the last year, with huge losses at breeding colonies; Scotland is conducting enhanced seabird monitoring in order to understand the full impact of the virus on wild birds with early results for great skua showing a drastic population decline of 78% at the breeding population at Hermaness
- [Poland](#) and [Scotland](#) have reported HPAI H5N1 in domestic birds
- [Germany](#) has reported HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

Highly Pathogenic Avian Influenza in South America

No. of Signals: 02

No. of weeks in report: 47

Avg. Rating: 2.0

- [Brazil](#) has reported HPAI in a sea lion found in Torres, the third finding in aquatic mammals in the state; from now on there will be no more sampling/testing of sea lions for HPAI, sampling will only occur if a new species of animal displays influenza symptoms
- [Venezuela](#) has reported HPAI H5 in domestic backyard birds in La Trinidad

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 04

No. of weeks in report: 113

Avg. Rating: 2.0

- [Taiwan](#) has reported HPAI H5N1 in domestic birds in Wanhua District
- [Japan](#) has reported HPAI H5 in a large billed crow in Bibai City

SCIENTIFIC FINDINGS & REPORTS:

Influenza

- ◆ Creating resistance to avian influenza infection through genome editing of the ANP32 gene family [Read More](#)
- ◆ Analysis of avian influenza A (H3N8) viruses in poultry and their zoonotic potential, China, September 2021 to May 2022 [Read More](#)
- ◆ Pre-print: Knowledge, Attitudes, and Practices Related to Avian Influenza (H5N1) After the Outbreak in Rural, Cambodia [Read More](#)
- ◆ Assessment of HPAI H5N1 potential for infection to mammals and potentially from there to humans in Denmark [Read More](#)

Other

- ◆ First detection of porcine circovirus 4 (PCV-4) in Europe [Read More](#)
- ◆ Muskrats (*Ondatra zibethicus*) Are Competent Intermediate Hosts Of *Echinococcus multilocularis* In North America [Read More](#)
- ◆ ECDC - Communicable disease threats report, 8-14 October 2023, week 41 [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.