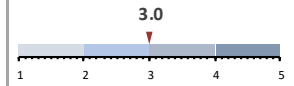


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

Highly Pathogenic Avian Influenza

Over the last two weeks, **Canada** has reported outbreaks of HPAI in commercial poultry in: **British Columbia**(1); and in non-commercial non-poultry in: **Alberta**(1)

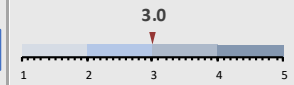
[Read More](#)



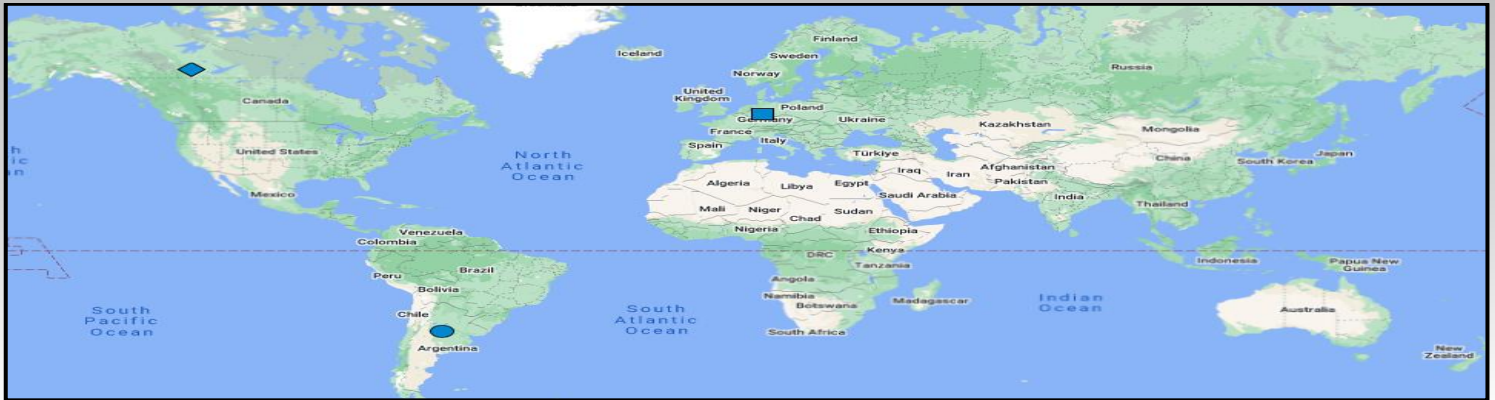
Bluetongue virus

The **Netherlands** have reported BTV serotype 3 in a 3.5-year-old pregnant dog that lived on a dairy farm with both cattle and sheep, and it is unclear how the dog became infected; BTV infection in dogs is rare and has only been previously reported in pregnant dogs

[Read More](#)



NEW EVENTS: (events rated > 2)



Leishmaniasis in Germany, imported from Mexico

Pathogen: parasite; **Transmission:** vector - sand-fly; **Species affected in event:** human

From April to August 2023, Germany diagnosed three unrelated cases of imported cutaneous leishmaniasis (CL) in patients exposed in southeastern Mexico. This is a significant increase, as prior to these findings only three cases of imported CL have been observed in Germany since 2000. This increase is likely linked to the increase in cases in Mexico due to environmental changes in the region and the construction/deforestation associated with the “Tren Maya” project. In 2022, Mexico reported its highest rates of CL since 2005. As of 2023, the accumulated number of cases for the year in Mexico stands at 1128 (with the majority, 85%, of cases reported in men).

[Read More](#)

Avg. Rating	2.5
No. of Signal	1
No. of Ratings	4

Western Equine Encephalitis in Argentina

Pathogen: virus; **Transmission:** vector - mosquito; **Species affected in event:** equine, human, sheep

On December 20th, Argentina reported a rare human case of WEE, the first in more than two decades. The last reported human cases in Argentina occurred in 1982/1983 and 1996. This recent report comes after a warning from the Pan American Health Organization (PAHO) about WEE’s potential human health threat following detections of the virus in horses across Argentina and in Uruguay. On December 31st, the Argentinian Ministry of Health reported an additional 11 laboratory-confirmed human cases of WEE, including one death.

[Read More](#)

Avg. Rating	2.0 - 2.5
No. of Signal	4
No. of Ratings	1 - 4

WEE has also recently been diagnosed in a four-month-old female sheep that lived with affected horses in Buenos Aires, Argentina.

[Read More](#)

Borrelia burgdorferi in blacklegged tick in Northwest Territories

Pathogen: bacteria; **Transmission:** vector - tick; **Species affected in event:** canine

The Northwest Territories have reported their first finding of a blacklegged tick positive for *Borrelia burgdorferi*. The adult female black-legged tick was found on a pet dog in the Fort Simpson area, the dog had recently arrived from an endemic southern province. It is unclear whether the tick and/or the bacteria was locally acquired.

[Read More](#)

Avg. Rating	2.2
No. of Signal	1
No. of Ratings	6

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America **No. of Signals: 10** **No. of weeks in report: 96** **Avg. Rating: 2.0 - 3.0**

- Over the last two weeks, [Canada](#) has reported outbreaks of HPAI in commercial poultry in: British Columbia(1); and in non-commercial non-poultry in: Alberta(1)
- Over the last two weeks, the [USA](#) has reported outbreaks of HPAI in commercial poultry in: California(8), South Dakota(4), Michigan(2), Kansas(1), Pennsylvania(1), Ohio(1), Minnesota(1); in WOAHP poultry in: California(1), Washington(1), Kansas(1), Missouri(1); in WOAHP non-poultry in: Kansas(2), California(1), Oregon(1), Iowa(1), Nebraska(1), Oklahoma(1), Montana(1), Texas(1)

Bluetongue virus in Europe **No. of Signals: 05** **No. of weeks in report: 07** **Avg. Rating: 1.8 - 3.0**

- The [Netherlands](#) have reported BTV serotype 3 in a 3.5-year-old pregnant dog that lived on a dairy farm with both cattle and sheep, and it is unclear how the dog became infected; BTV infection in dogs is rare and has only been previously reported in pregnant dogs
- The [UK](#) has reported new cases of BTV in Kent and Norfolk's temporary control zones, bringing the total number to 30 since last month's outbreak

Highly Pathogenic Avian Influenza in South America **No. of Signals: 03** **No. of weeks in report: 56** **Avg. Rating: 2.0 - 2.6**

- [Colombia](#) has reported HPAI H5N1 in domestic backyard poultry in Bolivar
- The [Falkland Islands](#) have reported HPAI in black-browed albatross on Steeple Jason

Highly Pathogenic Avian Influenza in Asia **No. of Signals: 11** **No. of weeks in report: 122** **Avg. Rating: 2.0 - 2.4**

- [South Korea](#), [China](#), [Taiwan](#), and [Japan](#) have reported HPAI H5N1 in wild birds
- [Japan](#) has reported a reoccurrence of HPAI H5N6 (its first report since 2018) in a wild peregrine falcon in Saga Prefecture

Influenza A (H5N6 & H9N2) in China **No. of Signals: 03** **No. of weeks in report: 49** **Avg. Rating: 2.0 - 2.4**

- [China](#) has reported a human case of avian influenza A(H5N6) in a 33-year-old from Bazhong City, Sichuan Province, who had contact with live poultry prior to symptom onset; from 2014 to date, 88 human cases of avian influenza A(H5N6) have been reported by Mainland health authorities
- [China](#) has also reported two human cases of avian influenza A(H9N2) in Sichuan province, both with onset in November 2023

Highly Pathogenic Avian Influenza in Europe **No. of Signals: 24** **No. of weeks in report: 157** **Avg. Rating: 2.0 - 2.3**

- [Poland](#), [Hungary](#), [Italy](#), [Lithuania](#), [France](#), and [Germany](#) have reported HPAI H5N1 in domestic poultry
- [Moldova](#) and [Austria](#) have reported HPAI H5N1 in wild birds
- [Denmark](#) has escalated their threat level for HPAI from medium to high
- [Iceland](#) has reported HPAI H5N5 in wild birds (common raven)
- A summary of the overall HPAI situation in Europe is available [here](#)

Highly Pathogenic Avian Influenza in Africa **No. of Signals: 01** **No. of weeks in report: 61** **Avg. Rating: 2.0**

- The [Ivory Coast](#) has reported a case of HPAI in the commune of Adiaké

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

Coronavirus

- ◆ High seroprevalence for SARS-CoV-2 infection in dogs: Age as risk factor for infection in shelter and foster home animals [Read More](#)

Influenza

- ◆ Continued expansion of high pathogenicity avian influenza H5 in wildlife in South America and incursion into the Antarctic region [Read More](#)
- ◆ Conference presentation summary - Relationship between avian influenza virus and giant blowflies observed in Izumi City, Kagoshima Prefecture [Read More](#)
- ◆ Detection and Phylogenetic Analysis of Contemporary H14N2 Avian Influenza A Virus in Domestic Ducks in Southeast Asia (Cambodia) [Read More](#)
- ◆ Influenza D in Domestic and Wild Animals [Read More](#)
- ◆ Evolution of influenza A viruses in exhibition swine and transmission to humans, 2013–2015 [Read More](#)
- ◆ Avian influenza A(H5) virus circulation in live bird markets in Vietnam, 2017–2022 [Read More](#)
- ◆ Reported human infections of H9N2 avian influenza virus in China in 2021 [Read More](#)

Other

- ◆ Transmission of porcine reproductive and respiratory syndrome virus in domestic pigs via oral ingestion of feed material [Read More](#)
- ◆ ECDC - Communicable disease threats report, 17-23 December 2023, week 51 [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.