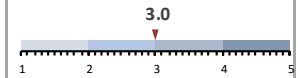


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

Highly Pathogenic Avian Influenza

◆ The **USA** has confirmed that three adult harbor seals in **Puget Sound**, found stranded on **Marrowstone Island** on August 18 and 25, have tested positive for the HPAI H5N1; this is the first incidence of HPAI in marine mammals on the West Coast of North America

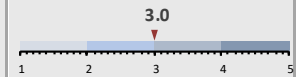
[Read More](#)



African Swine Fever

◆ **Sweden** has reported its first cases of ASF, with a total of seven wild boar confirmed positive for ASF in **Fagersta**; the origin of infection is unknown

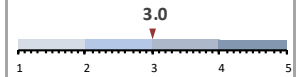
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Bluetongue Virus

◆ The **Netherlands** have reported 18 outbreaks of BTV, a recurrence after 14 years, on sheep farms in **Noord-Holland** and **Utrecht**

[Read More](#)



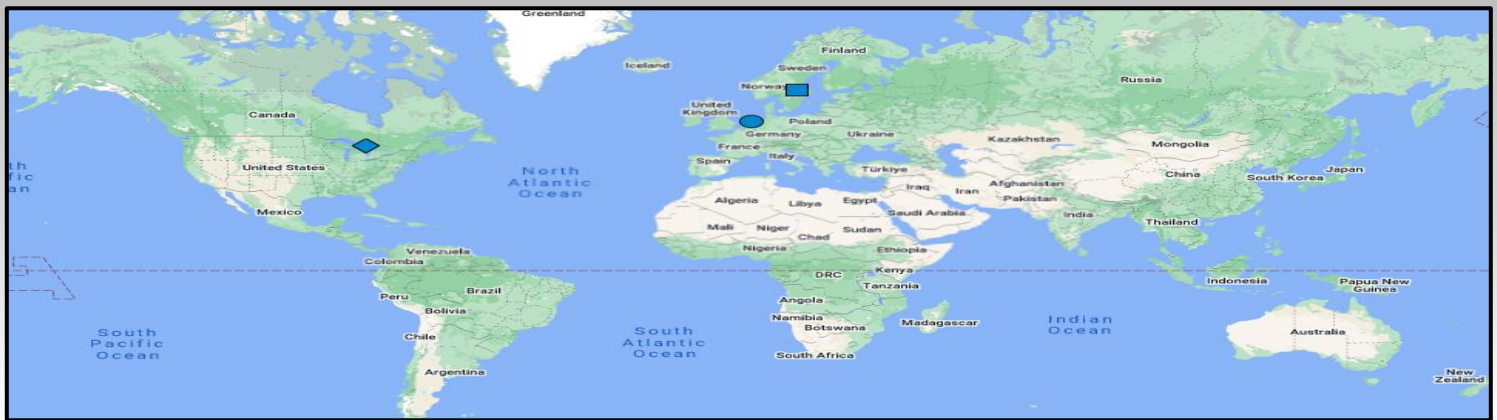
Porcine Sapovirus

◆ Two cases of porcine sapovirus have been detected in **Ontario** after a PCR test has become available; however, practitioners in **Manitoba** and **Alberta** have also reported seeing cases of the disease earlier in 2023

[Read More](#)



NEW EVENTS: (events rated > 2)



■ African Swine Fever in Sweden

Pathogen: virus; **Transmission:** direct contact, fomite, vector; **Species affected in event:** wild boar

① Sweden has reported its first cases of ASF in the country. A total of seven wild boar have been confirmed positive for ASF in Fagersta (~200 kilometers north-west of Stockholm). The origin of infection is unknown but assumed to be related to human activity due to the large distance from other cases in Europe. [Read More](#)

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

● Bluetongue Virus in the Netherlands

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

① The Netherlands have reported 18 outbreaks of BTV on sheep farms in Noord-Holland and Utrecht. BTV was last reported in the Netherlands in 2009. The Netherlands will now lose its EU disease-free status, meaning sheep will have to be vaccinated before they can be exported. [Read More](#)

Avg. Rating	2.3 - 3.0
No. of Signal	3
No. of Ratings	3 - 4

◆ Porcine Sapovirus in Canada

Pathogen: virus; **Transmission:** direct contact (fecal-oral); **Species affected in event:** swine

① Two cases of porcine sapovirus have been detected in Ontario after a PCR test has become available by Prairie Diagnostic Services. However, first reports of the virus in Canada appear to be from January 2023, and practitioners in Manitoba and Alberta have also reported seeing cases of the disease earlier in 2023. The virus was identified in the USA in 1980, but only recently (2019) implicated as causing diarrhea in pigs in the USA. [Read More](#)

Avg. Rating	2.0 - 3.0
No. of Signal	4
No. of Ratings	1 - 2

Additional information on [porcine sapovirus](#) from the University of Guelph.

CONTINUED EVENTS: (events rated ≥ 2.4)

- | | | | |
|--|---|--|---|
| <p><u>Highly Pathogenic Avian Influenza in North America</u></p> <ul style="list-style-type: none"> • The USA has confirmed that three adult harbor seals in Puget Sound, found stranded on Marrowstone Island on August 18 and 25, have tested positive for the HPAI H5N1; this is the first incidence of HPAI in marine mammals on the West Coast | <p><u>No. of Signals: 01</u></p> | <p><u>No. of weeks in report: 81</u></p> | <p><u>Avg. Rating: 3.0</u></p> |
| <p><u>African Swine Fever in Europe</u></p> <ul style="list-style-type: none"> • Italy has reported ASF on two more farms in the village of Zinasco, Lombardy region, ~16km from the first farm outbreak in the region • North Macedonia has reported its first outbreak of ASF in a big commercial pig farm with 9,151 pigs located in the East region of the country • Ukraine and Russia have reported ASF in domestic swine • Hungary, North Macedonia, and Russia have reported ASF in wild boar | <p><u>No. of Signals: 10</u></p> | <p><u>No. of weeks in report: 148</u></p> | <p><u>Avg. Rating: 2.0 – 2.8</u></p> |
| <p><u>Highly Pathogenic Avian Influenza in Europe</u></p> <ul style="list-style-type: none"> • Finland has reported HPAI in wild mammals for the first time this year, in a fox in Halsua and an otter in Evijärvi, both in the west of Finland • Wales' largest gannet colony on Grassholm has halved according to a recent survey; large declines following outbreaks of HPAI have also been recorded at other colonies across the UK including Troup Head in Scotland • Scotland and Finland have reported HPAI H5N1 in wild birds • In France, vaccination against HPAI will begin in October 2023 and apply to all commercial duck farms throughout the country • A summary of the overall HPAI situation in Europe is available here | <p><u>No. of Signals: 05</u></p> | <p><u>No. of weeks in report: 142</u></p> | <p><u>Avg. Rating: 2.0 – 2.7</u></p> |
| <p><u>Highly Pathogenic Avian Influenza in South America</u></p> <ul style="list-style-type: none"> • Uruguay has reported its first cases of HPAI H5 in three sea lions found dead on beaches in the south of the country • Argentina continues to report HPAI H5 in sea lions | <p><u>No. of Signals: 02</u></p> | <p><u>No. of weeks in report: 42</u></p> | <p><u>Avg. Rating: 2.4 – 2.5</u></p> |
| <p><u>Lumpy Skin Disease in Indonesia (exporter Australia)</u></p> <ul style="list-style-type: none"> • Australia has completed its investigation into the health status of northern cattle herds in response to LSD being detected in a small number of Australian-origin cattle in Indonesia; diagnostic testing of more than 1,000 head of cattle across northern Australia, spanning ~2,800 km, did not detect LSD in Australia and the country's LSD-free disease status has not changed | <p><u>No. of Signals: 01</u></p> | <p><u>No. of weeks in report: 03</u></p> | <p><u>Avg. Rating: 2.3</u></p> |
| <p><u>Highly Pathogenic Avian Influenza in Africa</u></p> <ul style="list-style-type: none"> • Nigeria has reported HPAI H5N1 in domestic poultry in Ogun | <p><u>No. of Signals: 01</u></p> | <p><u>No. of weeks in report: 54</u></p> | <p><u>Avg. Rating: 2.0</u></p> |

SCIENTIFIC FINDINGS & REPORTS:

African Swine Fever

- ◆ The non-classical major histocompatibility complex II protein SLA-DM is crucial for African swine fever virus replication [Read More](#)

Influenza

- ◆ Airborne transmission of human-isolated avian H3N8 influenza virus between ferrets [Read More](#)
- ◆ Refined semi-lethal aerosol H5N1 influenza model in cynomolgus macaques for evaluation of medical countermeasures [Read More](#)
- ◆ Virulence and transmission characteristics of clade 2.3.4.4b H5N6 subtype avian influenza viruses possessing different internal gene constellations [Read More](#)
- ◆ North American wintering mallards infected with highly pathogenic avian influenza show few signs of altered local or migratory movements [Read More](#)
- ◆ Highly pathogenic avian influenza A (H5N1) in marine mammals and seabirds in Peru [Read More](#)
- ◆ Reported Global Avian Influenza Detections Among Humans and Animals During 2013 -2022: Comprehensive Review and Analysis of Available Surveillance Data [Read More](#)
- ◆ Pilot of asymptomatic swabbing of humans following exposures to confirmed avian influenza A(H5) in avian species in England, 2021/2022 [Read More](#)
- ◆ Commentary: We are underestimating, again, the true burden of H5N1 in humans [Read More](#)
- ◆ Centre for Health Protection Avian Influenza Report [Read More](#)

Vectors and Vector-borne Diseases

- ◆ Jamestown Canyon virus is transmissible by *Aedes aegypti* and is only moderately blocked by *Wolbachia* co-infection [Read More](#)

Other

- ◆ The emergence of *Brucella canis* as a public health threat in Europe: what we know, and what we need to learn [Read More](#)
- ◆ Surveillance –Disease surveillance in England and Wales, July 2023 [Read More](#)
- ◆ Ontario Animal Health Network Companion Animal Expert Network Public Health Update 2023 [Read More](#)
- ◆ Annual assessment of *Echinococcus multilocularis* surveillance reports submitted in 2023 in the context of commission delegated regulation (EU) 2018/772 [Read More](#)
- ◆ SHIC Domestic Disease Monitoring Report –September 2023 [Read More](#)
- ◆ SHIC Global Disease Monitoring Report –September 2023 [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.