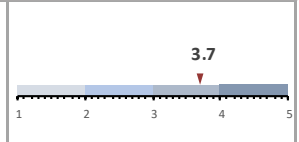


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

Bovine Tuberculosis

Following an investigation, two cows from a **Saskatchewan** ranch have tested positive for bovine TB; this results from a US notification to CFIA in February 2023 of a tissue sample positive for bovine TB from a cow exported from **Canada** to an American feedlot in September 2022

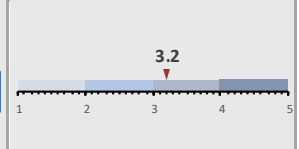
[Read More](#)



Highly Pathogenic Avian Influenza

Poland's preliminary analysis of samples from cats infected with HPAI H5N1 suggests that the samples are related to viruses found in the country's poultry and wild birds, and originate from a single unidentified source; there is concern that it may be linked to raw poultry meat

[Read More](#)

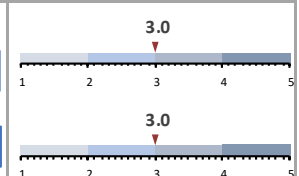


African Swine Fever

Croatia has reported its first cases of ASF in the country; ASF was confirmed in samples of dead animals from two small facilities in the Vukovar-Srijem County, where pigs were kept in the open

Italy has reported a case of ASF in a wild boar carcass found on June 16, 2023 in **Bagnaria, Pavia**; this is the first case of ASF in **Lombardy, Italy's** largest pork production region

[Read More](#)



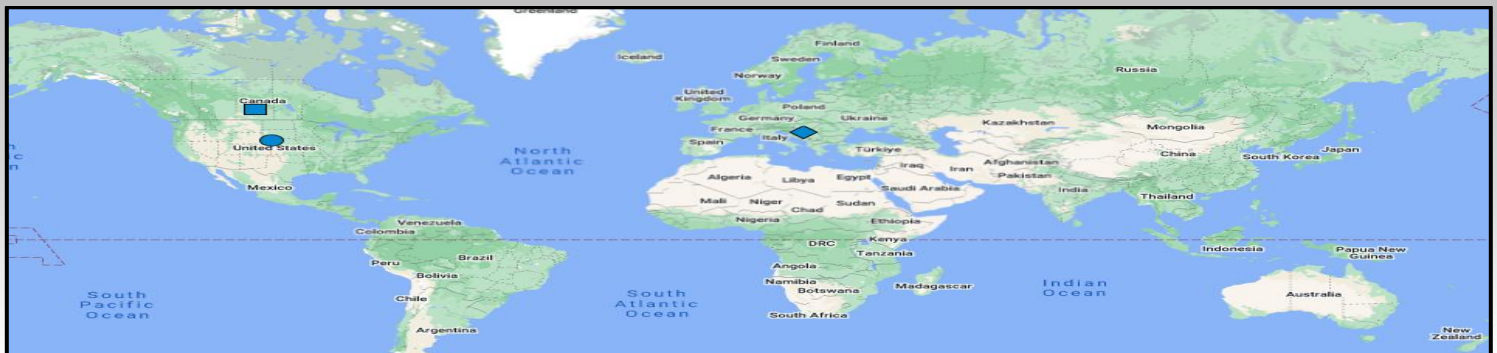
Asian Long Horned Tick

The ALHT has been discovered on **Martha's Vineyard, Massachusetts**, for the first time; the ticks were found during yard surveys in **Aquinnah and Chilmark**

[Read More](#)



NEW EVENTS: (events rated > 2)



Bovine Tuberculosis in Canada

Pathogen: bacteria; **Transmission:** direct contact, aerosol; **Species affected in event:** cattle

① In February 2023, the USDA notified the CFIA of a positive test for bovine TB in a tissue sample from a cow exported to an American feedlot from Saskatchewan in September 2022. The herd of origin was tested in May 2023, reactor animals slaughtered, and two cases of bovine TB were confirmed on June 19, 2023. The last bovine TB incident in Canada was in British Columbia in 2018, when four cases were diagnosed following slaughter at a southern Alberta abattoir.

[Read More](#)

Avg. Rating	3.7
No. of Signal	1
No. of Ratings	3

African Swine Fever in Croatia

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

① Croatia reported its first cases of ASF in the country on June 26, 2023. ASF was confirmed in samples of dead animals from two small facilities in the Vukovar-Srijem County, where pigs were kept in the open. The region is only 25km away from the initial outbreak in Bosnia-Herzegovina confirmed on June 22, 2023. Croatia is now the 23rd European country to report the disease.

[Read More](#)

Avg. Rating	3.0
No. of Signal	2
No. of Ratings	4 - 6

Salmonella in the USA

Pathogen: bacteria; **Transmission:** direct contact, fomite; **Species affected in event:** human

① The CDC is collecting data in order to investigate multistate outbreaks of Salmonella infections with the following serotypes: Braenderup, Enteritidis, Indiana, Infantis, Mbandaka, and Typhimurium. Epidemiologic data show that contact with backyard poultry is making people sick. As of 7 Jun 2023, a total of 410 people infected with one of the outbreak strains have been reported from 45 states.

[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 Europe

No. of Signals: 24

No. of weeks in report: 132

Avg. Rating: 2.0–3.2

- [Poland's](#) preliminary analysis of samples from cats infected with HPAI H5N1 suggests that the samples are related to viruses found in the country's poultry and wild birds, and originate from a single unidentified source; there is concern that it may be linked to raw poultry meat
- [Scotland](#) is suspecting HPAI as the cause of death for >200 seabirds (sandwich terns and black-headed gulls) at the Forvie National Nature Reserve in Aberdeenshire
- [Russia](#), [Estonia](#), [Norway](#), [Spain](#), [Finland](#), and [Italy](#) have reported HPAI H5N1 in wild birds
- [Sweden](#) has reported HPAI H5N1 in domestic poultry
- [Svalbard and Jan Mayen Islands](#) have reported HPAI H5N1 in a wild bird
- A summary of the overall HPAI situation in Europe is available [here](#)

African Swine Fever in Europe

No. of Signals: 11

No. of weeks in report: 144

Avg. Rating: 2.0–3.0

- [Italy](#) has reported a case of ASF in a wild boar carcass found on June 16, 2023 in Bagnaria, Pavia; this is the first case of ASF in Lombardy, Italy's largest pork production region
- [Italy](#), [Poland](#), and [Latvia](#) have reported cases of ASF in domestic swine
- The [Czech Republic](#), [Latvia](#), [Italy](#), and [Hungary](#) have reported cases of ASF in wild boar

Highly Pathogenic Avian Influenza in South America

No. of Signals: 03

No. of weeks in report: 32

Avg. Rating: 2.0–2.7

- [Brazil](#) has reported its first case of HPAI H5N1 in backyard poultry in Serra, Espirito Santo; the affected flock is comprised of ducks, geese, teals and hens

Crimean Congo Hemorrhagic Fever in Asia

No. of Signals: 02

No. of weeks in report: 02

Avg. Rating: 2.0–2.4

- [Iraq](#) has reported >250 cases of CCHF and >35 deaths across the country since the beginning of 2023
- [Afghanistan](#) has reported a total of 359 cases of CCHF across 27 provinces since the beginning of the year with 11 deaths

Highly Pathogenic Avian Influenza in North America

No. of Signals: 05

No. of weeks in report: 75

Avg. Rating: 1.2–2.4

- [Canada](#) has not reported any outbreaks of HPAI H5N1 in domestic poultry since early May 2023
- The [USDA](#) has not reported any outbreaks of HPAI H5N1 in domestic poultry since mid-May 2023
- The [USDA](#) has updated their list of mammals infected with HPAI H5, with the total now 198
- [Alaska](#) plans to do more HPAI testing in mammals in the coming months

Vesicular Stomatitis in the USA

No. of Signals: 01

No. of weeks in report: 06

Avg. Rating: 2.3

- In [California](#), there have been 10 new VSV-affected equine premises identified (2 confirmed positive, 8 suspect)
- Since the start of the outbreak, 114 VSV-affected premises have been identified (39 confirmed positive, 75 suspect) in two states, California (113 cases across six counties) and Texas (1 case in one county)

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 03

No. of weeks in report: 106

Avg. Rating: 2.0

- The [Philippines](#) have reported HPAI H5N1 in domestic poultry
- [Japan](#) has self-declared freedom of HPAI after ~17.7 million birds were culled across the country and the virus has not been detected since early April 2023
- [Indonesia](#) has reported LPAI in domestic poultry

SCIENTIFIC FINDINGS & REPORTS:

Coronavirus

- ◆ Genomic screening of 16 UK native bat species through conservationist networks uncovers coronaviruses with zoonotic potential [Read More](#)

Influenza

- ◆ Highly Pathogenic Avian Influenza A(H5N1) Clade 2.3.4.4b Virus in Domestic Cat, France, 2022 [Read More](#)
- ◆ H10Nx avian influenza viruses detected in wild birds in China pose potential threat to mammals [Read More](#)
- ◆ The changing dynamics of highly pathogenic avian influenza H5N1: Next steps for management & science in North America [Read More](#)
- ◆ How human ecology landscapes shape the circulation of H5N1 avian influenza: A case study in Indonesia [Read More](#)
- ◆ BTN3A3 evasion promotes the zoonotic potential of influenza A viruses [Read More](#)
- ◆ High activity levels of avian influenza upwards 2018–2022: A global epidemiological overview of fowl and human infections [Read More](#)
- ◆ Investigating the Genetic Diversity of H5 Avian Influenza Viruses in the United Kingdom from 2020–2022 [Read More](#)
- ◆ A Comparison of Host Responses to Infection with Wild-Type Avian Influenza Viruses in Chickens and Tufted Ducks [Read More](#)
- ◆ ECDC Guidance: Enhanced surveillance of severe avian influenza virus infections in hospital settings in the EU/EEA [Read More](#)

Vectors and Vector-borne Diseases

- ◆ Asian Long Horned Tick discovered in Martha's Vineyard, Massachusetts [Read More](#)
- ◆ Molecular Detection of Tick-Borne Bacterial and Protozoan Pathogens in *Haemaphysalis longicornis* (Acari: Ixodidae) Ticks from Free-Ranging Domestic Sheep in Hebei Province, China [Read More](#)
- ◆ The Role of Wild Boars in the Circulation of Tick-Borne Pathogens: The First Evidence of *Rickettsia monacensis* Presence [Read More](#)
- ◆ Longitudinal Study of the Occurrence of Usutu Virus and West Nile Virus Infections in Birds in a Zoological Garden in Northern Germany [Read More](#)
- ◆ First record of *Culex modestus* in Finland [Read More](#)
- ◆ An evaluation of the landscape structure and La Niña climatic anomalies associated with Japanese encephalitis virus outbreaks reported in Australian piggeries in 2022 [Read More](#)
- ◆ Seroprevalence of tick-borne encephalitis virus in wild and domestic animals in northern Germany [Read More](#)
- ◆ Reemergence of Dengue Virus Serotype 3, Brazil, 2023 [Read More](#)

Other

- ◆ Evidence of Rift Valley Fever Virus Circulation in Livestock and Herders in Southern Ghana [Read More](#)
- ◆ First Detection of Hepatitis E Virus (*Rocahepevirus ratti* Genotype C1) in Synanthropic Norway Rats (*Rattus norvegicus*) in Romania [Read More](#)
- ◆ *Avibacterium paragallinarum*: an emerging birds pathogen in Qinling wildlife conservation center, China [Read More](#)
- ◆ Porcine Astrovirus Linked to Respiratory Disease in Pigs [Read More](#)
- ◆ Prospecting for Zoonotic Pathogens by Using Targeted DNA Enrichment [Read More](#)
- ◆ Prevalence of *Streptococcus suis* in pigs in China during 2000–2021: A systematic review and meta-analysis [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.