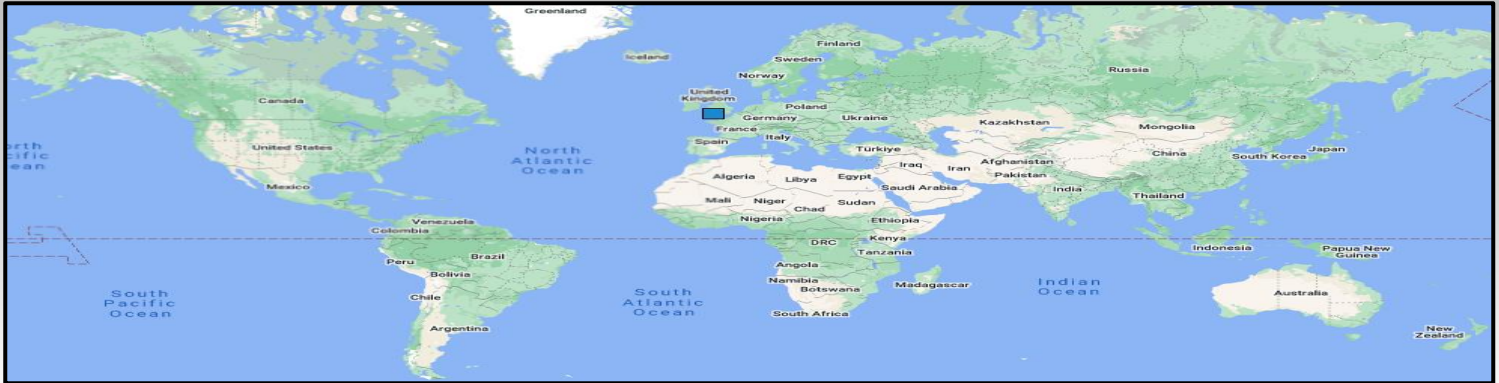


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

No relevant events to report this week

NEW EVENTS: (events rated > 2)



Schmallenberg virus in the UK

Pathogen: virus; **Transmission:** vector - culicoides; **Species affected in event:** ovine

① Schmallenberg virus has affected farms in Somerset, with cases rising across the south west. Farmers are reporting a high number of cases across the south-west belt of England, from Devon and Somerset through to Herefordshire and Gloucestershire, with some farmers reporting 40% of their flock infected. Symptoms include: abortions, stillbirths, fetal abnormalities, reduced milk production, fever, and diarrhea.

[Read More](#)

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

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in Antarctica

No. of Signals: 01

No. of weeks in report: 07

Avg. Rating: 2.8

- HPAI has been confirmed in one colony of Gentoo penguins and one colony of king penguins in [South Georgia](#)

Influenza A (H9N2) in China

No. of Signals: 04

No. of weeks in report: 53

Avg. Rating: 2.6

- [China](#) has reported four additional human cases of avian influenza (H9N2):
 - a six-year-old boy from Anhui whose symptoms began on January 3, 2024
 - a three-year-old boy from Guangxi whose symptoms began February 2, 2024
 - an eleven-year-old boy from Jiangxi whose symptoms began February 11, 2024
 - a three-year-old boy from Guangdong whose symptoms began February 17, 2024

Highly Pathogenic Avian Influenza in South America

No. of Signals: 03

No. of weeks in report: 64

Avg. Rating: 2.2 - 2.6

- The [Galapagos National Park](#) has closed two visiting sites on two islands where seabirds were found dead on beaches, triggering an alert of a suspected outbreak of HPAI
- [Brazil](#) has reported additional cases of HPAI H5N1 in wild birds

Foot and Mouth Disease in Africa

No. of Signals: 02

No. of weeks in report: 02

Avg. Rating: 2.0 - 2.3

- [Libya](#) has reported additional outbreaks of FMD serotype O, bringing the total number of outbreaks to 51 with 11,830 animals affected; vaccination has not been carried out and due to the upcoming Ramadan period in North Africa, an intensification of animal movement is expected in the area

Highly Pathogenic Avian Influenza in Europe

No. of Signals: 09

No. of weeks in report: 169

Avg. Rating: 1.6 - 2.3

- In [France](#), ~21.6 million commercial ducks have received their first dose of HPAI H5N1 vaccine; the country also recently lowered their [HPAI risk level](#) from "high" to "moderate"
- [Bulgaria](#) has reported HPAI H5N1 in domestic poultry
- [Scotland](#), [Poland](#), [Romania](#), and [Germany](#) have reported HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

Highly Pathogenic Avian Influenza in North America

No. of Signals: 04

No. of weeks in report: 107

Avg. Rating: 1.5 - 2.3

- [Canada](#) has not reported any new outbreaks of HPAI in domestic poultry over the last week
- Over the last week, the [USA](#) has reported outbreaks of HPAI in commercial poultry in: South Dakota(1); in WOA non-poultry in: Texas(1), Minnesota(1), and Oregon(1)
- In [Virginia](#), dead birds that have been washing ashore in Ocean View are being tested for HPAI

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 02

No. of weeks in report: 133

Avg. Rating: 2.0 - 2.2

- [Japan](#) has reported HPAI H5N1 in domestic poultry in Hiroshima

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

African Swine Fever

- ◆ Epidemiological Assessment of African Swine Fever Spread in the Dominican Republic [Read More](#)
- ◆ Biosecurity measures for the prevention of African swine fever on German pig farms: comparison of farmers' own appraisals and external veterinary experts' evaluations [Read More](#)

Coronavirus

- ◆ Possible Spreading of SARS-CoV-2 from Humans to Captive Non-Human Primates in the Peruvian Amazon [Read More](#)
- ◆ ECDC - Distribution of confirmed cases of MERS-CoV by place of infection and month of onset, March 2012 – February 2024 [Read More](#)

Influenza

- ◆ Pacific and Atlantic sea lion mortality caused by highly pathogenic Avian Influenza A(H5N1) in South America [Read More](#)
- ◆ Divergent Pathogenesis and Transmission of Highly Pathogenic Avian Influenza A(H5N1) in Swine [Read More](#)
- ◆ Pre-print: Serological analysis in humans in Malaysian Borneo suggests prior exposure to H5 avian influenza [Read More](#)
- ◆ Cross-Species Transmission Potential of H4 Avian Influenza Viruses in China: Epidemiological and Evolutionary Study [Read More](#)
- ◆ Phylogeographic Dynamics of H9N2 Avian Influenza Viruses in Tunisia [Read More](#)
- ◆ H5N1 high pathogenicity avian influenza virus in migratory birds exhibiting low pathogenicity in mallards increases its risk of transmission and spread in poultry [Read More](#)
- ◆ Genetic Characterization and Phylogeographic Analysis of the First H13N6 Avian Influenza Virus Isolated from Vega Gull in South Korea [Read More](#)
- ◆ Dramatic re-emergence of avian influenza in Colombia and Latin America [Read More](#)

Mpox

- ◆ Ongoing mpox outbreak in Kamituga, South Kivu province, associated with monkeypox virus of a novel Clade I sub-lineage, Democratic Republic of the Congo, 2024 [Read More](#)

Vectors and Vector-borne Diseases

- ◆ Heatwaves are detrimental to fertility in the viviparous tsetse fly [Read More](#)
- ◆ Kyasanur Forest Disease: Clinical manifestations and molecular dynamics in a zoonotic landscape [Read More](#)

Other

- ◆ Coding-complete genome sequences of rabbit hemorrhagic disease virus type 2 detected in 2023 in Washington State indicate a divergent incursion into the United States [Read More](#)
- ◆ Human exposures to *Brucella canis* from a pregnant dog during an international flight: Public health risks, diagnostic challenges and future considerations [Read More](#)
- ◆ One Health approach for *Brucella canis*: Serological and molecular detection in animal-hoarding individuals and their dogs [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 19/03/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 10 – 16 March 2024, week 11 [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.