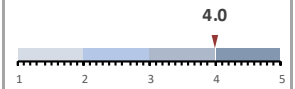


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

### Highly Pathogenic Avian Influenza

Over the last week, **Canada** has reported outbreaks of HPAI in commercial poultry in: **British Columbia**(11) and **Quebec**(1); in non-commercial poultry in: **Saskatchewan**(3) and **Alberta**(1)

[Read More](#)



### Feline Coronavirus

Pre-print: Researchers have discovered a new strain of feline coronavirus that has recombined with a highly virulent pantropic canine coronavirus, which could explain how the virus managed to spread so widely and cause a high mortality rate (165 confirmed) among the cat population in **Cyprus** in recent months

In October 2023, a cat imported into the **UK** from **Cyprus** was found to be infected with the virus, after it developed symptoms and was sent for tests and treatment by its owner

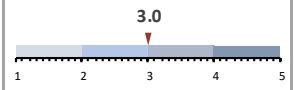
[Read More](#)



### Undiagnosed Canine Respiratory Illness

In the **USA**, there have been multiple media reports of an unidentified respiratory illness affecting dogs across multiple states (**Oregon, Colorado, New Hampshire, Indiana, Illinois, Washington, Idaho, etc.**), with symptoms involving a mild cough that may progress to severe pneumonia; it is unclear whether this is an outbreak (of a possibly new bacteria/virus) or the result of increased media attention and monitoring

[Read More](#)



## NEW EVENTS: (events rated > 2)

No new events to report this week

## CONTINUED EVENTS: (events rated ≥ 2.4)

### Highly Pathogenic Avian Influenza in North America

**No. of Signals: 13**

**No. of weeks in report: 91**

**Avg. Rating: 1.8 - 4.0**

- Over the last week, **Canada** has reported outbreaks of HPAI in commercial poultry in: British Columbia(11) and Quebec(1); in non-commercial poultry in: Saskatchewan(3) and Alberta(1)
- British Columbia's** wild raptor population is experiencing a rise in HPAI cases
- Over the last week, the **USA** has reported outbreaks of HPAI in commercial poultry in: Minnesota(3), Missouri(1), Oregon(2), Iowa(1), North Dakota(1), and South Dakota(1); in WOA poultry in: North Dakota(1) and Iowa(1); in WOA non-poultry in: North Dakota(1), Idaho(1), Colorado(1), Texas(1), Oregon(2), Montana(1), Iowa(3), Michigan(1), and Florida(1)
- Mexico** has reported a previous outbreak (from May 2022) of HPAI H7N3 in domestic poultry in Jalisco

### Undiagnosed Canine Illness in the USA

**No. of Signals: 04**

**No. of weeks in report: 02**

**Avg. Rating: 2.8 - 3.0**

- In the **USA**, there have been multiple media reports of an unidentified respiratory illness affecting dogs across multiple states (**Oregon, Colorado, New Hampshire, Indiana, Illinois, Washington, Idaho, etc.**), with symptoms involving a mild cough that may progress to severe pneumonia; it is unclear whether this is an outbreak (of a possibly new bacteria/virus) or the result of increased media attention and monitoring
- Streptococcus equi* subspecies *zooepidemicus* (as well as some *Mycoplasma*) has been reported at the San Diego Humane Society in **California**

### Influenza A (H9N2) in China

**No. of Signals: 01**

**No. of weeks in report: 47**

**Avg. Rating: 2.8**

- China** has reported one new human case of avian influenza A (H9N2) virus in Sichuan province with an onset date of October 1; a total of 92 cases of human infection with avian influenza A(H9N2) have been reported to WHO since December 2015 (90 from China, 2 from Cambodia)

### Highly Pathogenic Avian Influenza in Europe

**No. of Signals: 24**

**No. of weeks in report: 152**

**Avg. Rating: 2.0 - 2.3**

- The Netherlands** have reported two outbreaks of HPAI H5N1 in domestic poultry, their first outbreaks in ~five months; genomic testing of the virus from the laying farm in **Renswoude** has revealed that the virus has acquired a new PB1 segment by reassorting with a low pathogenic virus
- Denmark, Italy, Hungary, and England** have reported HPAI H5N1 in domestic birds
- Austria, Germany, Spain, Romania, Serbia, and Portugal** have reported HPAI H5N1 in wild birds
- Sweden** has reported HPAI H5 in wild birds
- Iceland** and **Greenland** have reported HPAI H5N5 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: 04**

**No. of weeks in report: 52**

**Avg. Rating: 2.0**

- Brazil** has reported an additional finding of HPAI in wild birds, bringing the total case count to 146 (139 in wild birds and 4 in sea lions)
- Argentina has reported cases of HPAI H5 in **wild** and **domestic** birds
- Uruguay** has reported HPAI H5 in South American fur seals and sea lions

### Highly Pathogenic Avian Influenza in Asia

**No. of Signals: 03**

**No. of weeks in report: 118**

**Avg. Rating: 2.0**

- Cambodia** had reported HPAI H5N1 in domestic backyard poultry near its border with Vietnam

## SCIENTIFIC FINDINGS & REPORTS:

### Coronavirus

- ◆ Pre-print: Emergence and spread of feline infection peritonitis due to a highly pathogenic canine/feline recombinant coronavirus [Read More](#)
- ◆ Pangolin HKU4-related coronaviruses found in greater bamboo bat from southern China [Read More](#)
- ◆ Data on SARS-CoV-2 events in animals: Mind the gap! [Read More](#)

### Influenza

- ◆ Pathogenicity in Chickens and Turkeys of a 2021 United States H5N1 Highly Pathogenic Avian Influenza Clade 2.3.4.4b Wild Bird Virus Compared to Two Previous H5N8 Clade 2.3.4.4 Viruses [Read More](#)
- ◆ Environmental Surveillance and Detection of Infectious Highly Pathogenic Avian Influenza Virus in Iowa Wetlands [Read More](#)
- ◆ Genetic and Biological Properties of H10Nx influenza viruses in China [Read More](#)
- ◆ Highly Pathogenic Avian Influenza A(H5N1) from Wild Birds, Poultry, and Mammals, Peru [Read More](#)
- ◆ Reassortant H9N2 canine influenza viruses containing the pandemic H1N1/2009 ribonucleoprotein complex circulating in pigs acquired enhanced virulence in mice [Read More](#)
- ◆ Molecular characterization and phylogenetic analysis of highly pathogenic H5N1 clade 2.3.4.4b virus in Bosnia and Herzegovina [Read More](#)
- ◆ Mutational antigenic landscape of prevailing H9N2 influenza virus hemagglutinin spectrum [Read More](#)
- ◆ Spillover of an endemic avian Influenza H6N2 chicken lineage to ostriches and reassortment with clade 2.3.4.4b H5N1 high pathogenicity viruses in chickens [Read More](#)

### Vectors and Vector-borne Disease

- ◆ Introduction of the ectoparasite Rhipicephalus pulchellus (Ixodida: Ixodidae) into Connecticut with a human traveler from Tanzania, and a review of its importation records into the United States [Read More](#)
- ◆ The expanding range of emerging tick-borne viruses in Eastern Europe and the Black Sea Region [Read More](#)

### Other

- ◆ Systemic Erysipelas Outbreak among Free-Ranging Bottlenose Dolphins, San Diego, California, USA, 2022 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 12 - 18 November 2023, week 46 [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.