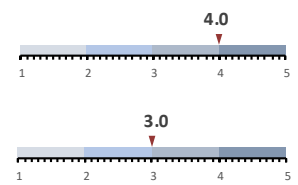


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

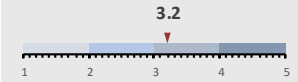
Highly Pathogenic Avian Influenza

- ◆ The USDA has confirmed that clinical samples of unpasteurized milk from sick cattle collected from two dairy farms in **Kansas** and one in **Texas**, as well as an oropharyngeal swab from another dairy in **Texas**, have tested positive for HPAI [Read More](#)
- ◆ **Minnesota** has confirmed that juvenile goats from **Stevens County**, residing on a farm with an HPAI positive poultry flock, tested positive for HPAI H5N1, clade 2.3.4.4b [Read More](#)



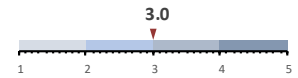
African Swine Fever

- ◆ In **Italy**, the sampling of 300 products (many with Chinese labels) from ethnic shops throughout the country found 81 (~27%) contained ASF DNA [Read More](#)



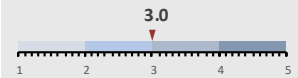
Severe Fever with Thrombocytopenia Syndrome

- ◆ **Japan** has confirmed the first instance of human-to-human transmission of SFTS; the viral infection passed directly from a patient to their physician [Read More](#)

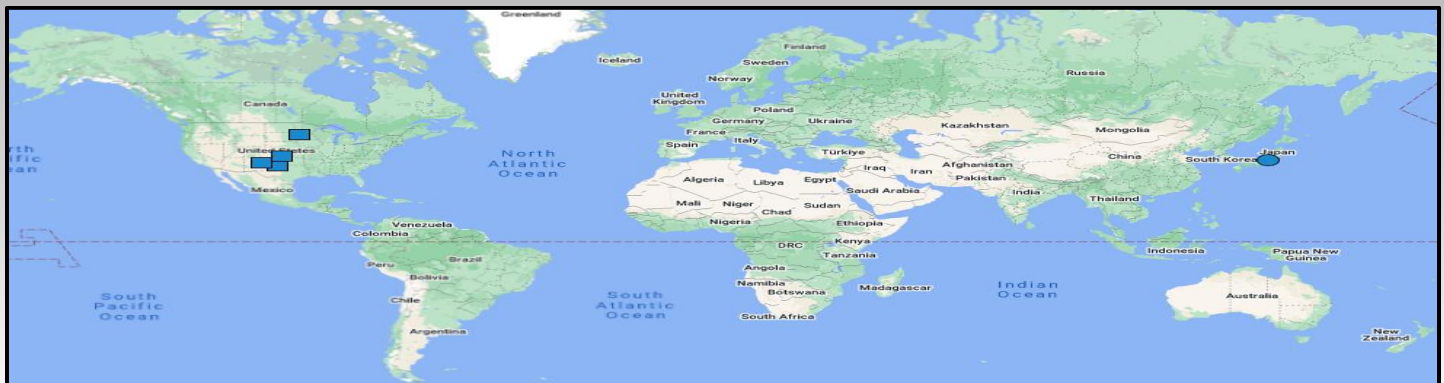


Influenza A (H5N1)

- ◆ **Vietnam** has reported a human case of avian influenza A(H5N1) in a 21-year-old male student from **Khanh Hoa** province; the case had contact with wild birds, had onset of symptoms on March 11, and passed away on March 23 [Read More](#)



NEW EVENTS: (events rated > 2)



Highly Pathogenic Avian Influenza in ruminants in the USA

Pathogen: virus; **Transmission:** direct contact, fomite, aerosol; **Species affected in event:** cattle, goat

① The USDA, FDA, and CDC, as well as state veterinary and public health officials, are investigating an illness among primarily older dairy cows in Texas, Kansas, and New Mexico that is causing decreased lactation, low appetite, and other symptoms. As of Monday, March 25, unpasteurized, clinical samples of milk from sick cattle collected from two dairy farms in Kansas and one in Texas, as well as an oropharyngeal swab from another dairy in Texas, have tested positive for HPAI. Based on findings from Texas, the detections appear to have been introduced by wild birds. Initial testing by the national laboratory has not found changes to the virus that would make it more transmissible to humans, which would indicate that the current risk to the public remains low. [Read More](#)

On March 20, 2024, Minnesota announced that HPAI has been detected in a baby goat that lived on a farm in Stevens County, where an outbreak had recently been detected in poultry. The goats at the farm began to kid only days after the poultry were depopulated. Ten goats died, ranging from 5 to 9 days old. Brain and tissue samples from five goat kids were positive for H5N1, clade 2.3.4.4b. [Read More](#)

Avg. Rating	2.5 - 4.0
No. of Signal	5
No. of Ratings	3 - 27

Severe fever with thrombocytopenia syndrome in Japan

Pathogen: virus; **Transmission:** vector, direct contact; **Species affected in event:** human

① Japan has confirmed the first instance of human-to-human transmission of SFTS. The viral infection, usually transmitted by ticks, was passed from a patient to their attending physician. The doctor carried out various procedures on the patient, including removing his catheter post-mortem. While the doctor wore a mask and gloves during the procedure, he reportedly did not wear goggles. Approximately nine days following the patient's death, the doctor developed symptoms and was diagnosed with SFTS. Genetic analysis of both the doctor's and the patient's viral strains revealed identical sequences, confirming human-to-human transmission. [Read More](#)

Avg. Rating	2.7 - 3.0
No. of Signal	2
No. of Ratings	3 - 4

CONTINUED EVENTS: (events rated ≥ 2.4)

African Swine Fever in Europe

No. of Signals: 10 **No. of weeks in report: 153** **Avg. Rating: 2.0 - 3.2**

- In [Italy](#), the sampling of 300 products (many with Chinese labels) from ethnic shops throughout the country found 81 (~27%) contained ASF DNA, indicating that products contaminated with ASF are now widespread in the area
- [Italy](#), in an effort to mitigate the spread of ASF, has conducted region specific inspections at farms and slaughterhouses, identifying numerous biosecurity violations and seizing unregistered livestock
- [Latvia](#), [Hungary](#), [Ukraine](#), [Italy](#), [Poland](#), and [Moldova](#) have reported cases of ASF in wild boar

Influenza A (H5N1) in Vietnam

No. of Signals: 03 **No. of weeks in report: 02** **Avg. Rating: 2.7 - 3.0**

- [Vietnam](#) has reported a human case of avian influenza A(H5N1) (clade to be determined) in a 21-year-old male student from Khanh Hoa province; the case had contact with wild birds (although samples of birds in the immediate region all tested negative for HPAI H5), had onset of symptoms on March 11, and passed away on March 23
- From 2003 to present day, Vietnam has recorded 128 human infections with influenza A (H5N1), of which 65 people died (CFR 50.8%)

Highly Pathogenic Avian Influenza in North America

No. of Signals: 04 **No. of weeks in report: 108** **Avg. Rating: 2.0 - 2.8**

- [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 WOA non-poultry in: Maine(1) and Texas(1)
- HPAI is suspected (preliminary positive results) in several birds found dead on Short Beach in Nahant, [Massachusetts](#)

Highly Pathogenic Avian Influenza in Europe

No. of Signals: 11 **No. of weeks in report: 170** **Avg. Rating: 2.0**

- The [Czech Republic](#) has reported HPAI H5N1 in domestic poultry
- [Sweden](#) has reported HPAI H5 in domestic poultry
- [Germany](#), [Scotland](#), [Denmark](#), [Hungary](#), and [Romania](#) have reported HPAI H5N1 in wild birds
- In the [UK](#), Defra introduced new requirements for all bird keepers, regardless of flock size, to officially register their birds
- A summary of the overall HPAI situation in Europe is available [here](#)

Highly Pathogenic Avian Influenza in South America

No. of Signals: 03 **No. of weeks in report: 65** **Avg. Rating: 2.0**

- The [Galapagos National Park](#) has reopened two areas restricted to land tourism last week as suspicions of HPAI were ruled out
- [Brazil](#) has reported additional cases of HPAI H5N1 in wild birds

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

African Swine Fever

- ◆ The transcriptomic insight into the differential susceptibility of African Swine Fever in inbred pigs [Read More](#)

Influenza

- ◆ Highly pathogenic avian influenza A(H5N1) virus of clade 2.3.4.4b isolated from a human case in Chile causes fatal disease and transmits between co-housed ferrets [Read More](#)

Vectors and Vector-borne Diseases

- ◆ Isolation and whole-genome sequence analysis of Balagodu virus in Japan [Read More](#)
- ◆ Evidence of Active Orbivirus Transmission in 2016 in Kansas and Nebraska [Read More](#)
- ◆ Female *Aedes aegypti* mosquitoes use communal cues to manage population density at breeding sites [Read More](#)

Other

- ◆ Canine Schistosomiasis in the West Coast: *Heterobilharzia americana* in Two Natural Intermediate Hosts Found in the Colorado River, California [Read More](#)
- ◆ Diversity and prevalence of zoonotic infections at the animal-human interface of primate trafficking in Peru [Read More](#)
- ◆ Case of Human Orthohantavirus Infection, Michigan, USA, 2021 [Read More](#)
- ◆ Nephropathia Epidemica Caused by Puumala Virus in Bank Voles, Scania, Southern Sweden [Read More](#)
- ◆ A novel hantavirus identified in bats (*Carollia perspicillata*) in Brazil [Read More](#)
- ◆ Molecular characterization of a virulent goose astrovirus genotype -2 with high mortality in vitro and in vivo [Read More](#)
- ◆ The role of vehicle movement in swine disease dissemination: Novel method accounting for pathogen stability and vehicle cleaning effectiveness uncertainties [Read More](#)
- ◆ Prevalence and genome features of lake sinai virus isolated from *Apis mellifera* in the Republic of Korea [Read More](#)
- ◆ Green biomanufacturing of edible antiviral therapeutics for managed pollinators [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 26/03/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 17 – 23 March 2024, week 12 [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.