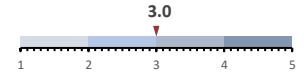
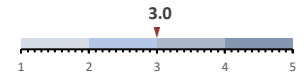
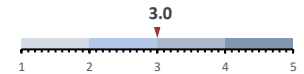
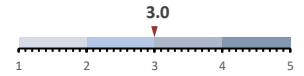


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

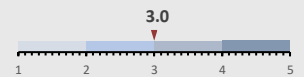
### Highly Pathogenic Avian Influenza

- ◆ Over the last week, Canada has reported outbreaks of HPAI in commercial poultry in: **Ontario(1)** [Read More](#)
- ◆ As of March 17, 2025, the USDA has reported influenza A(H5N1) in 986 dairy herds across 17 states: **Arizona(1), Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Nevada(10), Iowa(13), Utah(13), Texas(27), Michigan(31), Idaho(38), Colorado(64), and California(755)**
  - All recent outbreaks were reported from **California(1) and Idaho(2)**
- ◆ HPAI H5N1 exhibiting the PB2 E627K mutation was recently identified in four dairy cow herds in **California**; this mutation is associated with increased risk of mammal-to-mammal transmission and disease severity, it was also seen in a Texas dairy worker last March [Read More](#)
- ◆ The **USA** has reported HPAI H7N9 in a commercial broiler breeder chicken flock in **Mississippi**: the virus is from a North American wild bird lineage [Read More](#)

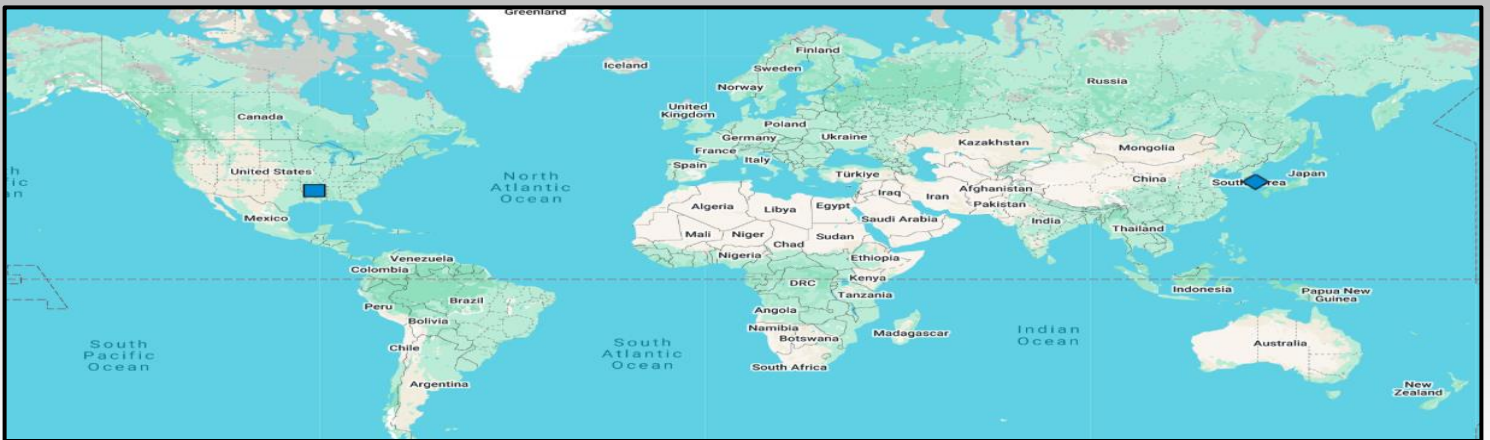


### Foot and Mouth Disease

- ◆ **South Korea** has reported cases of FMD serotype O in **Jeollanam-do**; these are the first cases of FMD in the country since May 2023 [Read More](#)



## NEW EVENTS: (events rated > 2)



### Highly Pathogenic Avian Influenza H7N9 in the USA

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

① HPAI H7N9 of North American wild bird lineage was detected in a commercial broiler breeder chicken flock in Mississippi. Clinical signs included increased mortality. Depopulation of the affected flock was completed on March 13, 2025. [Read More](#)

Avg. Rating	3.0
No. of Signal	1
No. of Ratings	2

### Foot and Mouth Disease in South Korea

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

① South Korea has confirmed cases of FMD serotype O in Jeollanam-do. These are the first cases of FMD in the country since May 2023. Five outbreaks have been reported in cattle in the southwest of the country. [Read More](#)

Avg. Rating	3.0
No. of Signal	1
No. of Ratings	2

## CONTINUED EVENTS: (events rated $\geq 2.4$ )

### **Highly Pathogenic Avian Influenza in North America** **No. of Signals: 15** **No. of weeks in report: 159** **Avg. Rating: 2.0 - 3.0**

- Over the last week, [Canada](#) has reported outbreaks of HPAI in commercial poultry in: Ontario(1)
- HPAI H5N1 has been confirmed in six out of seven samples of Canada geese carcasses collected from Vernon Bridge, [Prince Edward Island](#)
- Over the last week, the [USDA](#) has reported outbreaks of HPAI in commercial poultry in: Mississippi(1), Illinois(1), and Iowa(1); in WOA non-poultry in: Oklahoma(2), Indiana(1), Colorado(1), New York(1), New Jersey(1), Maryland(1), Nebraska(1), and Iowa(1); and in live-bird markets in: New Jersey(3), New York(2), and Pennsylvania(2)
- HPAI has caused the death of ~1,500 Sandhill cranes in [Indiana](#)
- As of March 17, 2025, the [USDA](#) has reported influenza A (H5N1) in 986 dairy herds across 17 states; Arizona(1), Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), [Minnesota](#)(9), New Mexico(9), Nevada(10), Iowa(13), Utah(13), Texas(27), [Michigan](#)(31), Idaho(38), [Colorado](#)(64), and California(755); the recent outbreaks were reported from California(1) and Idaho(2)
- HPAI H5N1 exhibiting the PB2 E627K mutation was recently identified in four dairy cow herds in [California](#); this mutation is associated with increased risk of mammal-to-mammal transmission and disease severity, it was also seen in a Texas dairy worker last March
- The [USDA](#) has added additional domestic cat findings to its HPAI in mammals list, bringing the total number of domestic cats to 115
- In [New York](#), HPAI has been reported in two cats, and suspected in a third cat, linked to raw pet food from the Savage Cat Food company
- Wastewater surveillance dashboards for influenza can be found at the [CDC](#) and Stanford University's [WastewaterSCAN](#)

### **Foot and Mouth Disease in Hungary** **No. of Signals: 01** **No. of weeks in report: 02** **Avg. Rating: 2.8**

- The FMD case in [Hungary](#) has been sequenced as serotype O, showing the highest similarity with a strain isolated in Pakistan in 2017-18 (98-99%)

### **New World Screwworm in Central/North America** **No. of Signals: 04** **No. of weeks in report: 24** **Avg. Rating: 2.0 - 2.8**

- [Mexico](#) has now reported the presence of the NWS in the state of Yucatan, with a case of myiasis identified in the umbilical region of a 6-day-old bovine
- [Mexico](#) has also reported human cases of NWS, with two new cases reported in two women from Chiapas
- [Honduras](#) has also reported a suspected human case of NWS in a woman in Olancho
- [Belize](#) has confirmed 20 cases of the NWS since the first detection in December 2024

### **Highly Pathogenic Avian Influenza in Europe** **No. of Signals: 17** **No. of weeks in report: 215** **Avg. Rating: 1.8 - 2.8**

- [Iceland](#) has reported HPAI H5N5 in cats
- [Hungary](#), [Poland](#), [Romania](#), [Ireland](#), and [Germany](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- The [Netherlands](#), [Spain](#), [Germany](#), and [Sweden](#) have reported cases of HPAI H5N1 in wild birds
- [Ukraine](#) has reported HPAI H5 in domestic poultry
- The [Netherlands](#) have begun to pilot HPAI vaccination of poultry after a successful field trial
- A summary of the overall HPAI situation in Europe is available [here](#)

### **Equine Infectious Anemia in Canada** **No. of Signals: 01** **No. of weeks in report: 03** **Avg. Rating: 2.5**

- In [Saskatchewan](#), 16 horses have tested positive for EIA, with no clinical signs noted at the time of sampling; the infected horses have a history of commingling with free-roaming horses in an area where the disease is endemic

### **Highly Pathogenic Avian Influenza in Asia** **No. of Signals: 06** **No. of weeks in report: 179** **Avg. Rating: 2.0 - 2.3**

- [South Korea](#), [India](#), and [Taiwan](#) have reported additional cases of HPAI in domestic poultry
- [South Korea](#) has reported HAI in wild bird droppings

### **Highly Pathogenic Avian Influenza in South America** **No. of Signals: 01** **No. of weeks in report: 84** **Avg. Rating: 2.0**

- The [Falkland Islands](#) have reported HPAI in dead Gentoo penguins

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### African Swine Fever

- ◆ Virulent African swine fever virus infection of porcine monocytes causes SLA I subversion due to loss of proper ER structure/function [Read More](#)

### Chronic Wasting Disease

- ◆ Detection and Decontamination of Chronic Wasting Disease Prions during Venison Processing [Read More](#)

### Coronavirus

- ◆ WHO Update - Middle East respiratory syndrome coronavirus - Kingdom of Saudi Arabia [Read More](#)

### Influenza

- ◆ Pre-print: Stability of influenza A H5N1 virus in raw milk cheese [Read More](#)
- ◆ Superior replication, pathogenicity, and immune evasion of a Texas dairy cattle H5N1 virus compared to a historical avian isolate [Read More](#)
- ◆ Highly Pathogenic Avian Influenza A(H5N1) Virus Stability in Irradiated Raw Milk and Wastewater and on Surfaces, United States [Read More](#)
- ◆ Exposure of Wild Mammals to Influenza A(H5N1) Virus, Alaska, USA, 2020–2023 [Read More](#)
- ◆ Highly Pathogenic Avian Influenza Virus in Mammals: Lack of Detection in Cattle With Respiratory Tract Infections and Genetic Analysis of Sporadic Spillover Infections in Wild Mammals in Bavaria, Southern Germany, 2022–2023 [Read More](#)
- ◆ Emergence of a novel reassortant H3N3 avian influenza virus with enhanced pathogenicity and transmissibility in chickens in China [Read More](#)
- ◆ Evidence of novel reassortment in clade 2.3.4.4b avian influenza H5N1 viruses, India, 2024 [Read More](#)

### Mpox

- ◆ WHO - Multi-country outbreak of mpox, External situation report #48 - 10 March 2025 [Read More](#)

### Vectors and Vector Borne Diseases

- ◆ Oz Virus Infection in 6 Animal Species, Including Macaques, Bears, and Companion Animals, Japan [Read More](#)

### Other

- ◆ Hemotropic mycoplasmas (hemoplasmas) in indigenous populations and their dogs living in reservation areas, Brazil [Read More](#)
- ◆ New York State - Global Health Update Report - 03/13/2025 [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 18/03/2025 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 8 - 14 March 2025, 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.