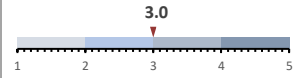


**SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)**

**Foot and Mouth Disease**

◆ **Hungary** has suggested that the country’s recent FMD outbreak may be the result of a possible biological attack, as they have yet to rule out that the virus was artificially engineered and not of natural origin

[Read More](#)



**Influenza A (H5N1)**

◆ **Mexico** has reported that the 3-year-old girl infected with influenza A(H5N1) died on April 8, 2025; 38 human contacts have been sampled, all of which tested negative

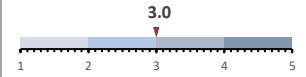
[Read More](#)



**Highly Pathogenic Avian Influenza**

◆ As of April 14, 2025, the USDA has reported influenza A(H5N1) in 1020 dairy herds across 17 states: **Wyoming(1), North Carolina(1), Ohio(1), Arizona(2), Oklahoma(2), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Nevada(11), Iowa(13), Utah(13), Texas(27), Michigan(31), Idaho(62), Colorado(64), and California(763)**

[Read More](#)



○ The recent outbreaks were reported from **Idaho(15), California(4), and Arizona(1)**

**NEW EVENTS: (events rated > 2)**



■ **Equine Influenza in Japan**

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

① Japan has confirmed equine influenza at three horse breeding farms in Kumamoto prefecture. These are the first reports of equine influenza in Japan since 2009. Control measures have been applied and genotyping is underway.

[Read More](#)

<b>Avg. Rating</b>	2.0 - 2.3
<b>No. of Signal</b>	2
<b>No. of Ratings</b>	3

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

### Influenza A(H5N1) in Mexico

**No. of Signals: 05**

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

**Avg. Rating: 3.0**

- [Mexico](#) has reported that the 3-year-old girl infected with influenza A(H5N1) died on April 8, 2025; 38 human contacts have been sampled, all of which tested negative

### Foot and Mouth Disease in Europe

**No. of Signals: 17**

**No. of weeks in report: 06**

**Avg. Rating: 2.0 - 3.0**

- No additional FMD cases have been reported in either Hungary or Slovakia over the last week
- [Hungary](#) has suggested that the country's recent FMD outbreak may be the result of a possible biological attack, as they have yet to rule out that the virus was artificially engineered and not of natural origin
- [Austria](#) has temporarily closed 24 border crossings to Hungary and Slovakia due to the FMD outbreaks; the closures are expected to remain in effect until May 20, 2025

### Highly Pathogenic Avian Influenza in North America

**No. of Signals: 06**

**No. of weeks in report: 163**

**Avg. Rating: 1.3 - 3.0**

- [Canada](#) has not reported any outbreaks of HPAI in poultry over the past week
- Over the last week, the [USDA](#) has reported outbreaks of HPAI in commercial poultry in: South Dakota(1) and Ohio(1); in WOAHP poultry in: Wisconsin(1) and New Mexico(1); in WOAHP Non-poultry in: New Mexico(1), Iowa(1), and New York(1); and in live bird markets in: New York(3)
- As of April 14, 2025, the [USDA](#) has reported influenza A (H5N1) in 1020 dairy herds across 17 states; Wyoming(1), North Carolina(1), Ohio(1), Arizona(2), Oklahoma(2), Kansas(4), South Dakota(7), [Minnesota](#)(9), New Mexico(9), Nevada(11), Iowa(13), Utah(13), Texas(27), [Michigan](#)(31), Idaho(62), [Colorado](#)(64), and California(763); the recent outbreaks were reported from Idaho(15), California(4) and Arizona(1)
- [Virginia](#) has reported HPAI H5N1 in a red fox in Loudon County; this is the first mammal case reported in Virginia
- The [FDA](#) is suspending efforts to improve avian influenza testing of milk, cheese, and pet food due to massive staff/funding cuts at the agency
- Wastewater surveillance dashboards for influenza can be found at the [CDC](#) and Stanford University's [WastewaterSCAN](#)

### Rabies in Ontario

**No. of Signals: 01**

**No. of weeks in report: 04**

**Avg. Rating: 2.7**

- In [Northern Ontario](#), another case of Arctic fox variant rabies was detected in a red fox in April 2025, along the James Bay coast (this is in a different region and unrelated to the fox rabies case that was detected in February 2025)

### Mpox worldwide (UK, Switzerland, Germany, China)

**No. of Signals: 04**

**No. of weeks in report: 40**

**Avg. Rating: 2.0 – 2.7**

- The [UK](#) has confirmed a single human case of mpox clade Ib with no reported travel history and no reported link with any previously confirmed cases in the UK; the individual was diagnosed in March, all contacts have been followed up and no further cases identified
- [Switzerland](#) has reported its first case of mpox clade Ib, in a traveller returning from Africa at the beginning of April
- [Germany](#) has reported suspected cases of mpox clade Ib in Lower Saxony, linked to travel to Africa
- [China](#) has reported its first case of mpox clade Ia, linked to travel to the Democratic Republic of the Congo

### Highly Pathogenic Avian Influenza in Europe

**No. of Signals: 17**

**No. of weeks in report: 219**

**Avg. Rating: 2.0**

- [Poland](#), [England](#), [Hungary](#), and the [Czech Republic](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [Belgium](#), the [Netherlands](#), [Wales](#), [Hungary](#), [Sweden](#), and the [Czech Republic](#) have reported cases of HPAI H5N1 in wild birds
- In [Poland](#), >700 dead chickens infected with AI were found discarded in a forested area in the north of the country
- A summary of the overall HPAI situation in Europe is available [here](#)

### Highly Pathogenic Avian Influenza in Asia

**No. of Signals: 08**

**No. of weeks in report: 183**

**Avg. Rating: 2.0**

- [Vietnam](#), [India](#), and [Taiwan](#) have reported outbreaks of HPAI H5N1 in domestic birds
- [Israel](#) has reported HPAI H5N1 in wild birds (from February 2025)
- Between January 1 – April 4, 2025, [India](#) has experienced continuous outbreaks of HPAI across both domestic poultry and non-poultry species, with a total of 34 epicentres identified in domestic poultry across eight states

### Highly Pathogenic Avian Influenza in South America

**No. of Signals: 01**

**No. of weeks in report: 86**

**Avg. Rating: 2.0**

- The [Falkland Islands](#) have reported HPAI H5N1 in one additional Gentoo penguin

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### African Swine Fever

- ◆ African swine fever incursion risks in Latin America and the Caribbean: informal and legal import pathways [Read More](#)
- ◆ Estimating sampling and laboratory capacity for a simulated African swine fever outbreak in the United States [Read More](#)

### Influenza

- ◆ Thermal inactivation spectrum of influenza A H5N1 virus in raw milk [Read More](#)
- ◆ Pre-print: Impact of pH and temperature in dairy processing on the infectivity of H5N1 avian influenza viruses [Read More](#)
- ◆ Genomic Characterization and Phylogenetic Analysis of Five Avian Influenza H5N1 Subtypes from Wild Anser indicus in Yunnan, China [Read More](#)
- ◆ Eurasian 1C swine influenza A virus exhibits high pandemic risk traits [Read More](#)
- ◆ Impact of inactivated vaccine on transmission and evolution of H9N2 avian influenza virus in chickens [Read More](#)
- ◆ Synergistic effects of PA (S184N) and PB2 (E627K) mutations on the increased pathogenicity of H3N2 canine influenza virus infections in mice and dogs [Read More](#)
- ◆ A Systematic Review of Mathematical and Machine Learning Models of Avian Influenza [Read More](#)

### Mpox

- ◆ Pre-print: Fire-footed rope squirrels (*Funisciurus pyrropus*) are a reservoir host of monkeypox virus (*Orthopoxvirus monkeypox*) [Read More](#)

### Vectors and Vector Borne Diseases

- ◆ (Re)Emerging Arboviruses of Public Health Significance in the Brazilian Amazon [Read More](#)
- ◆ First report on identification and genetic characterization of Getah virus in wild boar in China [Read More](#)
- ◆ A climate and population dependent diffusion model forecasts the spread of *Aedes Albopictus* mosquitoes in Europe [Read More](#)
- ◆ Molecular basis for shifted receptor recognition by an encephalitic arbovirus [Read More](#)
- ◆ Mayaro virus in Latin America and the Caribbean [Read More](#)

### Other

- ◆ Widespread geographic distribution of filarioid nematodes in caribou (*Rangifer tarandus sspp.*) in Canada [Read More](#)
- ◆ Hantavirus in rodents in the United States: Temporal and spatial trends and report of new hosts [Read More](#)
- ◆ Use of dog serologic data for improved understanding of coccidioidomycosis: A One Health approach [Read More](#)
- ◆ Serological data indicate a widespread presence of rabbit haemorrhagic disease in rabbit farms in Algeria [Read More](#)
- ◆ Epidemiology and genetic analysis of *Oestrus ovis* from slaughtered sheep in Sulaymaniyah province, Iraq [Read More](#)
- ◆ Determinants of Foot and Mouth Virus in Eastern Algeria [Read More](#)
- ◆ New York State - Global Health Update Report - 04/10/2025 [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 15/04/2025 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 5 - 11 April 2025, week 15 [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.