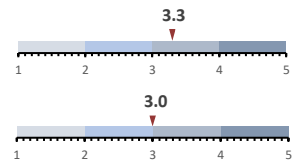


## SUMMARY: RELEVANT SIGNALS (includes all signals rated $\geq 3.0$ )

### Foot and Mouth Disease

- ◆ **Hungary** has reported two additional outbreaks of FMD in **Győr-Moson-Sopron**, bringing the total number of outbreaks to four; all outbreaks to date have been reported in cattle
- ◆ **Slovakia** has reported one additional outbreak of FMD in **Dunajská Streda**, the same region as four of the other outbreaks; all six outbreaks to date have been reported in cattle

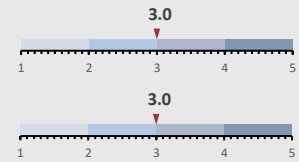
[Read More](#)



### Influenza A (H5N1)

- ◆ **Mexico** has confirmed its first human case of influenza A(H5N1), from the state of **Durango**, in a three-year-old girl who is currently hospitalized
- ◆ **India** has reported a human fatality due to influenza A(H5N1); a two-year-old girl from **Narasaraopet, Andhra Pradesh**, who had consumed raw chicken meat, passed away on March 16, 2025

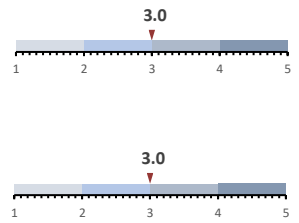
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### Highly Pathogenic Avian Influenza

- ◆ As of April 2, 2025, CFIA laboratories have tested 2954 samples of raw milk from trucks arriving at processing plants in all provinces across **Canada**; all samples have tested negative
- ◆ As of April 7, 2025, the USDA has reported influenza A(H5N1) in 1000 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(47), Colorado(64), and California(759)**
  - The recent outbreaks were reported from **Idaho(2)** and **California(1)**

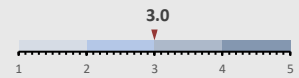
[Read More](#)



### Other

- ◆ The FAO has received termination notices for over 100 programs funded by the United States, valued at approximately \$382 million; these programs addressed critical issues such as animal disease control, famine prevention, economic stability, and biosafety worldwide

[Read More](#)



## NEW EVENTS: (events rated > 2)



### ■ Influenza A(H5N1) in Mexico

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

① Mexico has confirmed its first human case of avian influenza A(H5N1) in a three-year-old girl from the state of Durango. The patient initially received treatment with oseltamivir and is currently hospitalized in a third-level unit in the city of Torreón and her condition is reported to be serious. The source of the girl's infection isn't known, and the country has not reported any H5N1 outbreaks at commercial farms. Wild bird sampling was conducted around the girl's home and a monitoring system has been set up to track HPAI in wildlife in the area.

[Read More](#)

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

### ◆ *Dracunculus medinensis* in Vietnam

**Pathogen:** parasite; **Transmission:** ingestion; **Species affected in event:** human

① The dragonworm, *Dracunculus medinensis*, is a rare parasite that enters the body through raw food or contaminated drinking water. The WHO had certified Vietnam as free of the disease in 1998. However, from 2020, sporadic cases began to reappear. Between 2020 and 2024, Vietnam recorded 24 cases of dragon worm infection across five provinces: Yen Bai (11 cases), Phu Tho (8 cases), Lao Cai (2 cases), Hoa Binh (1 case) and Thanh Hoa (2 cases). Most of the cases reported are in men that live in mountainous areas and have the habit of eating raw fish/meat and drinking unboiled spring water.

[Read More](#)

Avg. Rating	2.5
No. of Signal	1
No. of Ratings	2

## CONTINUED EVENTS: (events rated ≥ 2.4)

### Foot and Mouth Disease in Europe

**No. of Signals: 07**

**No. of weeks in report: 05**

**Avg. Rating: 2.0 - 3.3**

- [Hungary](#) has reported two additional outbreaks of FMD in Győr-Moson-Sopron, bringing the total number of outbreaks to four; all outbreaks to date have been reported in cattle
- [Slovakia](#) has reported one additional outbreak of FMD in Dunajská Streda, the same region as four of the other outbreaks; all six outbreaks to date have been reported in cattle
- The [Czech Republic](#) is stepping up FMD prevention measures and has started checking and disinfecting trucks from Slovakia and Austria at the border; farmers are also being advised not to import young goat and lamb meat from Slovakia in the run-up to the upcoming Easter holidays

### Influenza A(H5N1) in India

**No. of Signals: 02**

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

**Avg. Rating: 3.0**

- [India](#) has reported a human fatality due to influenza A(H5N1); a two-year-old girl from Narasaraopet, Andhra Pradesh, who had consumed raw chicken meat, passed away on March 16, 2025

### Highly Pathogenic Avian Influenza in North America

**No. of Signals: 09**

**No. of weeks in report: 162**

**Avg. Rating: 1.7 - 3.0**

- [Canada](#) has not reported any outbreaks of HPAI in poultry over the past week
- In [Ontario](#), wild birds found dead near the Lake Huron shoreline in southern Bruce County have tested positive for avian influenza
- [Prince Edward Island](#) and [Nova Scotia](#) are experiencing a shortage of spring chicks due to supply chain impacts of HPAI outbreaks in the USA
- As of April 2, 2025, [CFIA laboratories](#) have tested 2954 samples of raw milk from trucks arriving at processing plants in all provinces across Canada; all samples have tested negative
- Over the last week, the [USDA](#) has reported outbreaks of HPAI in WOAHP Non-poultry in: Colorado(1) and New York(1); and in live bird markets in: New York(2)
- [Wisconsin](#) has confirmed HPAI in a 40,000 commercial poultry flock in Sheboygan County
- As of April 7, 2025, the [USDA](#) has reported influenza A (H5N1) in 1000 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(47), [Colorado](#)(64), and California(759); the recent outbreaks were reported from California(1) and Idaho(2)
- Wastewater surveillance dashboards for influenza can be found at the [CDC](#) and Stanford University's [WastewaterSCAN](#)

### Bluetongue virus in Europe

**No. of Signals: 01**

**No. of weeks in report: 21**

**Avg. Rating: 2.7**

- The [UK](#) will be reintroducing movement restrictions for livestock, due to BTV, starting in late April 2025; five new cases of BTV were confirmed on UK farms in the past week, with cases in Cambridgeshire, Hampshire, and Yorkshire

### New World Screwworm in Central/North America

**No. of Signals: 01**

**No. of weeks in report: 26**

**Avg. Rating: 2.5**

- [Mexico](#) continues to report new cases of NWS across its southern regions; a total of 23 new cases of cattle screwworm were registered during the last week in [Tabasco](#), including the arrival of the disease in Comalcalco

### Highly Pathogenic Avian Influenza in Europe

**No. of Signals: 19**

**No. of weeks in report: 218**

**Avg. Rating: 2.0 - 2.5**

- [Germany](#) has reported HPAI H5N1 in red foxes
- [Poland](#), [Hungary](#), and [England](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [Romania](#), [Scotland](#), [England](#), [Ireland](#), and [France](#) have reported cases of HPAI H5N1 in wild birds
- [Iceland](#) has reported HPAI H5N5 in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

### Highly Pathogenic Avian Influenza in Asia

**No. of Signals: 09**

**No. of weeks in report: 182**

**Avg. Rating: 2.0**

- [South Korea](#), [India](#), and [Cambodia](#) have reported outbreaks of HPAI H5N1 in domestic birds

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### Coronavirus

- ◆ Insights into cross-species infection by coronavirus: Porcine epidemic diarrhea virus infections in the rodent [Read More](#)

### Influenza

- ◆ Mapping of stakeholders in avian influenza surveillance in Canada [Read More](#)
- ◆ A rapid review of the avian influenza PB2 E627K mutation in human infection studies [Read More](#)
- ◆ Pre-print: Analyses of phylogenetics, natural selection, and protein structure of clade 2.3.4.4b H5N1 Influenza A reveal that recent viral lineages have evolved promiscuity in host range and improved replication in mammals in North America [Read More](#)
- ◆ Pre-print: Population Immunity to Hemagglutinin Head, Stalk and Neuraminidase of Highly Pathogenic Avian Influenza 2.3.4.4b A(H5N1) viruses in the United States and the Impact of Seasonal Influenza on A(H5N1) Immunity [Read More](#)
- ◆ A Geospatial Perspective Toward the Role of Wild Bird Migrations and Global Poultry Trade in the Spread of Highly Pathogenic Avian Influenza H5N1 [Read More](#)
- ◆ Modeling the impact of early vaccination in an influenza pandemic in the United States [Read More](#)
- ◆ Pandemic risk stemming from the bovine H5N1 outbreak: an account of the knowns and unknowns [Read More](#)
- ◆ Influenza A(H1N1)pdm09 Virus with Reduced Susceptibility to Baloxavir, Japan, 2024 [Read More](#)
- ◆ Detection of a Reassortant Swine- and Human-Origin H3N2 Influenza A Virus in Farmed Mink in British Columbia, Canada [Read More](#)
- ◆ Experimental Infection of Rats with Influenza A Viruses: Implications for Murine Rodents in Influenza A Virus Ecology [Read More](#)

### Vectors and Vector Borne Diseases

- ◆ Risk factors for dengue mortality: a 7-year retrospective cohort in Honduras [Read More](#)
- ◆ Clinical and epidemiological characteristics of the dengue outbreak of 2024: a multicenter observation from Bangladesh [Read More](#)

### Other

- ◆ Genetic diversity and molecular evolution of 3-carboxymuconate cyclase (Gp60–70), the major antigen in pathogenic *Sporothrix* species [Read More](#)
- ◆ Identification and genetic analysis of new ephemeroviruses in wild boars in China [Read More](#)
- ◆ Tuberculosis in found dead badgers at the edge of the expanding bovine tuberculosis epidemic [Read More](#)
- ◆ ECDC - Recommendations for preparedness planning for public health threats [Read More](#)
- ◆ New York State - Global Health Update Report - 04/03/2025 [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 08/04/2025 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 29 March - 4 April 2025, week 14 [Read More](#)
- ◆ SHIC Domestic Disease Monitoring Report – April 2025 [Read More](#)
- ◆ SHIC Global Disease Monitoring Report – April 2025 [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.