

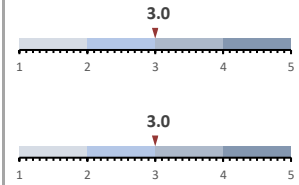
## SUMMARY: RELEVANT SIGNALS (includes all signals rated $\geq 3.0$ )

### Highly Pathogenic Avian Influenza

- ◆ Over the past week, Canada has reported outbreaks of HPAI in non-commercial poultry in: **Manitoba(1)**
- ◆ As of May 12, 2025, the USDA has reported influenza A(H5N1) in 1053 dairy herds across 17 states: **Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Arizona(4), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Nevada(11), Iowa(13), Utah(13), Texas(27), Michigan(31), Colorado(64), Idaho(90) and California(766)**
  - The recent outbreaks were reported from **Idaho(3)** and **Arizona(1)**

[Read More](#)

[Read More](#)



## NEW EVENTS: (events rated $> 2$ )



### Highly Pathogenic Avian Influenza H5N9 in the Philippines

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

① The Philippines have confirmed the country's first case of HPAI H5N9 in Camarines Sur province, southeast of Manila. The Animal Disease Diagnosis and Reference Laboratory reported positive results from duck samples collected during routine surveillance.

[Read More](#)

Avg. Rating	2.0 - 2.3
No. of Signal	3
No. of Ratings	4

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

### Highly Pathogenic Avian Influenza in North America

**No. of Signals: 08**

**No. of weeks in report: 167**

**Avg. Rating: 2.0 - 3.0**

- Over the past week, [Canada](#) has reported outbreaks of HPAI in non-commercial poultry in: Manitoba(1)
- Over the last week, the [USDA](#) has reported an outbreak of HPAI in live bird sales (non-slaughter) in Florida
- As of May 12, 2025, the [USDA](#) has reported influenza A (H5N1) in 1053 dairy herds across 17 states; Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Arizona(4), Kansas(4), South Dakota(7), [Minnesota](#)(9), New Mexico(9), Nevada(11), Iowa(13), Utah(13), Texas(27), [Michigan](#)(31), [Colorado](#)(64), Idaho(90), and California(766); the recent outbreaks were reported from Idaho(3) and Arizona(1)
- 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: 05**

**Avg. Rating: 2.6**

- Three new cases of Arctic fox variant rabies were detected this month in red foxes in far [northern Ontario](#), along the James Bay coast

### New World Screwworm in North/Central America

**No. of Signals: 04**

**No. of weeks in report: 28**

**Avg. Rating: 2.0 - 2.5**

- Mexico has reported the occurrence of NWS in cattle in [Veracruz](#) and in horses in [Oaxaca](#)
- The [USA](#) has suspended the import of live cattle, horses, and bison across its border with Mexico due to the rapid northward spread of the NWS
- [Mexico](#) has confirmed its second human case of myiasis due to the NWS in the state of Chiapas; the patient is a 50-year-old man who became infected after being bitten by a dog
- [Guatemala](#) has confirmed its first human case of cutaneous myiasis caused by the NWS in an elderly resident in Chiquimula

### Highly Pathogenic Avian Influenza in Asia

**No. of Signals: 01**

**No. of weeks in report: 187**

**Avg. Rating: 2.3**

- In [Vietnam](#), HPAI is suspected (and confirmed in some cases) to have caused the mass deaths and abnormal behavior of sea animals (bird, seals, and otters) in eastern Hokkaido

### Influenza A (H5N1) in Cambodia and Vietnam

**No. of Signals: 01**

**No. of weeks in report: 18**

**Avg. Rating: 2.3**

- A recent [WHO report](#) has re-classified a recent human case of influenza A H5N1 in Cambodia as clade 2.3.2.1e (previously classified as clade 2.3.2.1c) and preliminary testing also suggests that the recent case in Vietnam is also clade 2.3.2.1e

### Highly Pathogenic Avian Influenza in Europe

**No. of Signals: 07**

**No. of weeks in report: 223**

**Avg. Rating: 2.0**

- [Poland](#) and [Hungary](#) have reported HPAI H5N1 in domestic birds
- [Scotland](#), [England](#), [Wales](#), [Denmark](#), and [Germany](#) have reported HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### African Swine Fever

- Estimating sampling and laboratory capacity for a simulated African swine fever outbreak in the United States [Read More](#)
- Epidemiology and Control of African Swine Fever in Vietnam: A Scoping Review [Read More](#)
- The effect of freeze–thaw and storage on African swine fever virus detection in environmental samples [Read More](#)

### Coronavirus

- The recency and geographical origins of the bat viruses ancestral to SARS-CoV and SARS-CoV-2 [Read More](#)

### Influenza

- Pre-print: Pigeons exhibit low susceptibility and poor transmission capacity for H5N1 clade 2.3.4.4b high pathogenicity avian influenza virus [Read More](#)
- Pre-print: Introducing a framework for within-host dynamics and mutations modelling of H5N1 influenza infection in humans [Read More](#)
- Pre-print: Impacts of high pathogenicity avian influenza H5N1 2.3.4.4b south of the Antarctic Circle [Read More](#)
- A mathematical model of H5N1 influenza transmission in US dairy cattle [Read More](#)
- Unique phenomenon of H5 highly pathogenic avian influenza virus in China: co-circulation of Clade 2.3.4.4b H5N1 and H5N6 results in diversity of H5 Virus [Read More](#)
- Genesis and Spread of Novel Highly Pathogenic Avian Influenza A(H5N1) Clade 2.3.4.4b Virus Genotype EA-2023-DG Reassortant, Western Europe [Read More](#)
- Clade 2.3.4.4b highly pathogenic avian influenza H5N1 viruses: knowns, unknowns, and challenges [Read More](#)
- Immunogenicity and Protective Efficacy of Five Vaccines Against Highly Pathogenic Avian Influenza Virus H5N1, Clade 2.3.4.4b, in Fattening Geese [Read More](#)
- Newcastle disease virus expressing clade 2.3.4.4b H5 hemagglutinin confers protection against lethal H5N1 highly pathogenic avian influenza in BALB/c mice [Read More](#)
- Avian Influenza Virus Infections in Felines: A Systematic Review of Two Decades of Literature [Read More](#)

### Vectors and Vector Borne Diseases

- Assessing Schmallenberg Virus Disease in Sardinia (Italy) After the First Epidemic Episode in 2012 [Read More](#)

### Other

- Clinical and Neuropathological Evaluations of the New Brunswick Neurological Syndrome of Unknown Cause [Read More](#)
- Identification and characterization of pigeon adenovirus 1 as an emerging pathogen in pigeons from Northern and Northwest China [Read More](#)
- Shorter and Warmer Winters Expand the Hibernation Area of Bats in Europe [Read More](#)
- New York State - Global Health Update Report - 05/08/2025 [Read More](#)
- France - Weekly Bulletin for International Animal Health Surveillance 13/05/2025 [Read More](#)
- ECDC - Communicable disease threats report, 3 - 9 May 2025, week 19 [Read More](#)
- SHIC Global Disease Monitoring Report – May 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.