

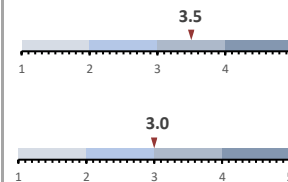
SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

Highly Pathogenic Avian Influenza

- ◆ Over the past week, Canada has reported outbreaks of HPAI in commercial poultry in: **Manitoba(1)**; and in non-commercial poultry in: **Saskatchewan(3)**
- ◆ As of May 5, 2025, the USDA has reported influenza A(H5N1) in 1049 dairy herds across 17 states: **Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Arizona(3), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Nevada(11), Iowa(13), Utah(13), Texas(27), Michigan(31), Colorado(64), Idaho(87) and California(766)**
 - The recent outbreaks were reported from **Idaho(16)** and **California(1)**

[Read More](#)

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NEW EVENTS: (events rated > 2)



■ Suspected human case of avian influenza A in Bangladesh

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

① In Bangladesh, a team from the Institute of Epidemiology, Disease Control, and Research has been sent to Jashore to investigate a suspected human case of avian influenza. Bangladesh had previously reported a detection of avian influenza in a government chicken farm in Jashore in March 2025, in which >2,000 chickens were culled.

[Read More](#)

Avg. Rating	2.8
No. of Signal	1
No. of Ratings	4

◆ Foot and Mouth Disease SAT-1 in Iraq

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

① Iraq has reported outbreaks of FMD SAT-1 in cattle and buffalo across the country. The first case was reported in cattle in Baghdad in mid-January 2025. However, the majority of the cases have occurred in buffalo. These are the first reports of SAT-1 in Iraq since the 1960's. Bahrain and Kuwait have also recently reported outbreaks of FMD SAT-1.

[Read More](#)

Avg. Rating	2.3
No. of Signal	1
No. of Ratings	4

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America

No. of Signals: 10

No. of weeks in report: 166

Avg. Rating: 1.3 – 3.5

- Over the past week, [Canada](#) has reported outbreaks of HPAI in commercial poultry in: Manitoba(1); and in non-commercial poultry in: Saskatchewan(3)
- Over the last week, the [USDA](#) has reported outbreaks of HPAI in commercial poultry in: South Dakota(1); in WOAHP poultry in: North Dakota(1); and in WOAHP non-poultry in: Indiana(1)
- As of May 5, 2025, the [USDA](#) has reported influenza A (H5N1) in 1049 dairy herds across 17 states; Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Arizona(3), Kansas(4), South Dakota(7), [Minnesota](#)(9), New Mexico(9), Nevada(11), Iowa(13), Utah(13), Texas(27), [Michigan](#)(31), [Colorado](#)(64), Idaho(87), and California(766); the recent outbreaks were reported from Idaho(16) and California(1)
- The CDC has assessed two recent HPAI H5N1 clade 2.3.4.4b viruses (A/California/147/2024 and A/Washington/239/2024) using its [influenza risk assessment tool \(IRAT\)](#), categorizing each of them as a “moderate risk” for potential emergence and public health impact
- Wastewater surveillance dashboards for influenza can be found at the [CDC](#) and Stanford University’s [WastewaterSCAN](#)

Influenza A (H5N1) in India

No. of Signals: 02

No. of weeks in report: 03

Avg. Rating: 2.5

- In [India](#), analysis of the specimen from the recent fatal avian influenza A(H5N1) in Pune has revealed that the two-year-old girl was infected with the clade 2.3.2.1a

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 02

No. of weeks in report: 186

Avg. Rating: 2.0 - 2.3

- [Bangladesh](#) has reported HPAI H5N1 in two serval cats imported from South Africa
- [South Korea](#) has reported additional outbreaks of HPAI in domestic poultry

Highly Pathogenic Avian Influenza in Europe

No. of Signals: 09

No. of weeks in report: 222

Avg. Rating: 2.0

- [Hungary](#) and [Poland](#) have reported HPAI H5N1 in domestic birds
- [Poland](#), [France](#), [Belgium](#), and [England](#) have reported HPAI H5N1 in wild birds
- [Norway](#) has reported HPAI H5N1 in wild mammals (red fox)
- A summary of the overall HPAI situation in Europe is available [here](#)

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

African Swine Fever

- ◆ African Swine Fever: A One Health Perspective and Global Challenges [Read More](#)
- ◆ An African swine fever vaccine-like variant with multiple gene deletions caused reproductive failure in a Vietnamese breeding herd [Read More](#)

Coronavirus

- ◆ A MERS-CoV-like mink coronavirus uses ACE2 as entry receptor [Read More](#)
- ◆ Detection of avian, murine, bovine, shrew, and bat coronaviruses in wild mammals from Mexico [Read More](#)
- ◆ Evidence of SARS-CoV-2 Exposure in Cats and Dogs From Households in Romania and Long-Term Specific Seroconversion in Cats [Read More](#)
- ◆ Molecular and Serological Survey of SARS-CoV-2 in Murid Rodents From Central Chile [Read More](#)

Chronic Wasting Disease

- ◆ Transmission and Characterization of Creutzfeldt–Jakob Disease and Chronic Wasting Disease in the North American Deer Mouse [Read More](#)

Influenza

- ◆ Pre-print: Bovine Derived Clade 2.3.4.4b HPAI H5N1 Virus Causes Mild Disease and Limited Transmission in Pigs [Read More](#)
- ◆ Avian Influenza A(H5N1) Isolated from Dairy Farm Worker, Michigan [Read More](#)
- ◆ The One Health challenges and opportunities of the H5N1 outbreak in dairy cattle in the United States [Read More](#)
- ◆ Emergence, migration and spreading of the high pathogenicity avian influenza virus H5NX of the Gs/Gd lineage into America [Read More](#)
- ◆ Enhancing the response to avian influenza in the US and globally [Read More](#)
- ◆ Impacts of a Potential HPAI H5N1 Incursion on Australian Wildlife [Read More](#)
- ◆ Pre-print: Progressive Adaptation of H6N1 Avian Influenza Virus in Taiwan Enhances Mammalian Infectivity, Pathogenicity and Transmissibility [Read More](#)
- ◆ Emerging zoonotic potential of H4N1 avian influenza virus: enhanced human receptor binding and replication via novel mutations [Read More](#)

Vectors and Vector Borne Diseases

- ◆ Environmental risk and Alpha-gal Syndrome (AGS) in the Mid-Atlantic United States [Read More](#)
- ◆ Emerging babesiosis in the mid-Atlantic: autochthonous human babesiosis cases and *Babesia microti* in *Ixodes scapularis* and *Ixodes keiransi* ticks from Delaware, Maryland, Virginia, West Virginia, and the District of Columbia, 2009 to 2024 [Read More](#)
- ◆ Impact of BTV-3 Circulation in Belgium in 2024 and Current Knowledge Gaps Hindering an Evidence-Based Control Program [Read More](#)
- ◆ Pre-print: Re-emergence of Yellow Fever Virus in Brazil: Evidence from Forest and peri-urban Settings [Read More](#)
- ◆ Pre-print: Crimean-Congo Hemorrhagic Fever Virus in Eastern Portugal; Evidence from Cattle and Red Deer [Read More](#)

Other

- ◆ Substantial spillover burden of rat hepatitis E virus in humans [Read More](#)
- ◆ Molecular Detection of Histoplasma in Bat-Inhabited Tunnels of Camino de Hierro Tourist Route, Spain [Read More](#)
- ◆ New York State - Global Health Update Report - 05/01/2025 [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 06/05/2025 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 26 April – 3 May 2025, week 18 [Read More](#)
- ◆ SHIC Domestic 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.