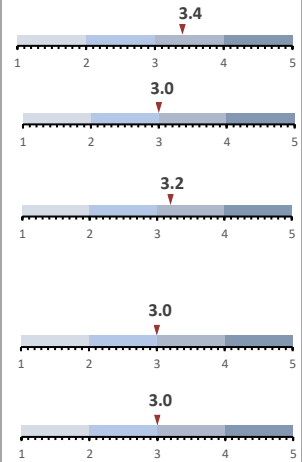


## SUMMARY: RELEVANT SIGNALS (includes all signals rated $\geq 3.0$ )

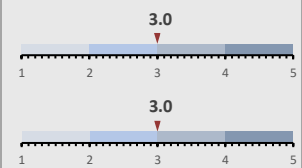
### Highly Pathogenic Avian Influenza

- ◆ Over the last week, **Canada** reported additional outbreaks of HPAI in commercial poultry in: **British Columbia(7)** and **Manitoba(1)** [Read More](#)
- ◆ One case of HPAI has been confirmed in a raven in the **Northwest Territories**, with one additional suspected case [Read More](#)
- ◆ As of December 2, 2024, the USDA has reported influenza A(H5N1) in 695 dairy herds across 15 states; **Wyoming(1)**, **North Carolina(1)**, **Ohio(1)**, **Oklahoma(2)**, **Kansas(4)**, **South Dakota(7)**, **Minnesota(9)**, **New Mexico(9)**, **Iowa(13)**, **Utah(13)**, **Texas(26)**, **Michigan(29)**, **Idaho(35)**, **Colorado(64)**, and **California(481)**
  - All of the recent outbreaks were reported from **California(45)**
- ◆ **California** has recalled a second batch of whole raw milk from Raw Farm, LLC of Fresno County due to a second detection of HPAI [Read More](#)
- ◆ **New Zealand** has reported an outbreak of HPAI H7N6 in chickens on a commercial free-range egg farm in a remote part of rural **Otago**; further testing has confirmed additional cases in a second shed at the farm [Read More](#)



### Influenza A (H5)

- ◆ The CDC has updated their human influenza A(H5) case list, confirming two additional cases in **California** dairy farm workers, bringing the total number of H5 cases to 57 [Read More](#)
- ◆ **British Columbia** has released its final update on the IAV H5N1 case in the teenager, indicating there have been no additional cases identified nor evidence of human-to-human transmission [Read More](#)



NEW EVENTS: (events rated > 2)



**Highly pathogenic avian influenza H7N6 in New Zealand**

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

① New Zealand has placed strict movement controls on a commercial, free-range egg farm in a remote part of rural Otago after confirming HPAI H7N6 in chickens on the farm. Two sheds have been locked down and the chickens in those sheds will be humanely culled. Additional sampling/testing and movement tracing is underway. The H7N6 strain is closely related to LPAI strains present in wild birds in New Zealand.

[Read More](#)

Avg. Rating	3.0
No. of Signal	1
No. of Ratings	4

**Contagious caprine pleuropneumonia in Mongolia**

**Pathogen:** bacteria; **Transmission:** aerosol, direct contact; **Species affected in event:** goat

① Mongolia has reported an outbreak of CCPP in goats in Tenger toirom, Khatanbulag. The outbreak was initially identified in October and is the first time CCPP has been reported in Mongolia since the 1950s, marking a 70-year absence. Approximately 15,000 goats are estimated to be infected, and measures are being implemented to contain the disease.

[Read More](#)

[Read More](#)

Avg. Rating	2.5
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: 14** **No. of weeks in report: 145** **Avg. Rating: 2.0 - 3.4**

- Over the last week, [Canada](#) reported additional outbreaks of HPAI in commercial poultry in: British Columbia(7) and Manitoba(1)
- One case of HPAI has been confirmed in a raven in the [Northwest Territories](#), with one additional suspected case
- Over the last week, the [USDA](#) has reported outbreaks of HPAI in commercial poultry in: California(4), Minnesota(3), South Dakota(2), North Dakota(1), Utah(1), and Tennessee(1); and in WOA non-poultry in: Alaska(1)
- [Hawaii](#) has reported HPAI in a wild duck on O’ahu’s North Shore
- As of December 2, 2024, the [USDA](#) has reported influenza A (H5N1) in 695 dairy herds across 15 states; Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), [Minnesota](#)(9), New Mexico(9), Iowa(13), Utah(13), Texas(26), [Michigan](#)(29), Idaho(35), [Colorado](#)(64), and California(436); all of the recent outbreaks were reported from California(45)
- [California](#) has recalled a second batch of whole raw milk from Raw Farm, LLC of Fresno County due to a second detection of HPAI
- Wastewater surveillance dashboards for influenza can be found at the [CDC](#) and Stanford University’s [WastewaterSCAN](#)

### **Influenza A (H5) in the USA** **No. of Signals: 01** **No. of weeks in report: 32** **Avg. Rating: 3.0**

- The [CDC](#) has updated their human influenza A(H5) case list, confirming two additional cases in California dairy farm workers, bringing the total number of H5 cases to 57

### **Influenza A (H5N1) in Canada** **No. of Signals: 01** **No. of weeks in report: 04** **Avg. Rating: 3.0**

- [British Columbia](#) has released its final update on the IAV H5N1 case in the teenager, indicating there have been no additional cases identified nor evidence of human-to-human transmission

### **Highly Pathogenic Avian Influenza in Europe** **No. of Signals: 18** **No. of weeks in report: 201** **Avg. Rating: 1.6 - 2.8**

- In [Scotland](#), HPAI H5N5 has been reported in great black-backed gulls on the Isle of May
- [Iceland](#) has also reported cases of HPAI H5N5 in wild birds (raven)
- [Hungary](#), [Germany](#), and [Poland](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [Slovenia](#), [France](#), [Poland](#), [Germany](#), [Italy](#), and [Spain](#) have reported cases of HPAI H5N1 in wild birds
- [Belgium](#) has ordered farmers to keep their poultry indoors in order to prevent outbreaks of HPAI
- A summary of the overall HPAI situation in Europe is available [here](#)

### **Mpox Worldwide (UK, DRC)** **No. of Signals: 02** **No. of weeks in report: 36** **Avg. Rating: 2.0 - 2.7**

- The [UK](#) has reported another imported case of mpox clade Ib; the case was detected in an individual in Leeds, who recently returned from Uganda
- The [DRC](#) has recently been reported >800 weekly suspected mpox cases; since the beginning of the outbreak, ~49,566 suspected cases have been reported, 10,846 confirmed, and 1,193 deaths

### **Highly Pathogenic Avian Influenza in Asia** **No. of Signals: 10** **No. of weeks in report: 165** **Avg. Rating: 2.0 - 2.5**

- [Japan](#) has reported an outbreak of HPAI at a duck farm in Gyoda City, Saitama prefecture, marking the season first outbreak in the region
- [Taiwan](#) has reported HPAI H5N1 in wild birds
- [Bhutan](#) has reported an outbreak of HPAI H5N1 in domestic poultry, with a start date from late August 2024
- [South Korea](#) has reported an outbreak of AI H5 in a backyard flock in Yeongam-gun, Jeollanam-do; testing is being conducted to determine if it is HPAI

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### Coronavirus

- ◆ Detection and Prevalence of Coronaviruses in European Bats: A Systematic Review [Read More](#)
- ◆ Differential prevalence and risk factors for infection with coronaviruses in bats collected from Yunnan Province, China [Read More](#)

### Influenza

- ◆ Influenza A Virus Antibodies in Ducks and Introduction of Highly Pathogenic Influenza A(H5N1) Virus, Tennessee, USA [Read More](#)
- ◆ Incursion of Novel Eurasian Low Pathogenicity Avian Influenza H5 Virus, Australia, 2023 [Read More](#)
- ◆ Avian influenza virus circulation and immunity in a wild urban duck population prior to and during a highly pathogenic H5N1 outbreak [Read More](#)
- ◆ Reassortment of newly emergent clade 2.3.4.4b A(H5N1) highly pathogenic avian influenza A viruses in Bangladesh [Read More](#)
- ◆ Analyzing Molecular Traits of H9N2 Avian Influenza Virus Isolated from a Same Poultry Farm in West Java Province, Indonesia, in 2017 and 2023 [Read More](#)

### Mpox

- ◆ CDC - Risk of Clade I Mpox Outbreaks Among U.S. MSM – Update [Read More](#)
- ◆ Response of the German public health service to the first imported mpox clade Ib case in Germany, October 2024 [Read More](#)

### Vectors and Vector Borne Diseases

- ◆ CDC MMWR - Severe and Fatal Rocky Mountain Spotted Fever After Exposure in Tecate, Mexico — California, July 2023–January 2024 [Read More](#)
- ◆ Expansion of Oropouche virus in non-endemic Brazilian regions: analysis of genomic characterisation and ecological drivers [Read More](#)
- ◆ Conference Proceedings: Treating wild birds with ivermectin through backyard bird feeders to reduce West Nile virus transmission risk in Colorado [Read More](#)

### Other

- ◆ Serological Evidence of Potential Marburg Virus Circulation in Livestock and Dogs in Ghana [Read More](#)
- ◆ The European Union summary report on surveillance for the presence of transmissible spongiform encephalopathies (TSE) in 2023 [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 03/12/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 23 - 29 November 2024, week 48 [Read More](#)
- ◆ SHIC Domestic Disease Monitoring Report – December 2024 [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.