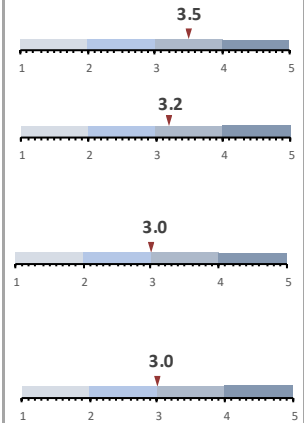


## SUMMARY: RELEVANT SIGNALS (includes all signals rated $\geq 3.0$ )

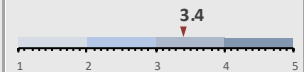
### Highly Pathogenic Avian Influenza

- ◆ Over the last week, **Canada** reported additional outbreaks of HPAI in commercial poultry in: **British Columbia(9)**; and in non-commercial poultry in: **British Columbia(1)** [Read More](#)
- ◆ **Oregon** has confirmed HPAI H5N1 in a pig from a backyard farming operation that also held positive poultry and had shared water sources, housing, and equipment; genetic sequencing has identified it as strain 2.3.4.4b genotype D1.2, which is different from the B3.13 currently spreading in dairy cattle [Read More](#)
- ◆ As of November 3, 2024, the USDA has reported influenza A(H5N1) in a total of 442 dairy herds across 15 states: **Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Utah(8), Minnesota(9), New Mexico(9), Iowa(13), Texas(26), Michigan(29), Idaho(35), Colorado(64), and California(233)**
  - The recent outbreaks were reported from **California(55)** and **Utah(8)** [Read More](#)
- ◆ **France** has confirmed two outbreaks of HPAI in vaccinated commercial duck farms in **Brittany** [Read More](#)

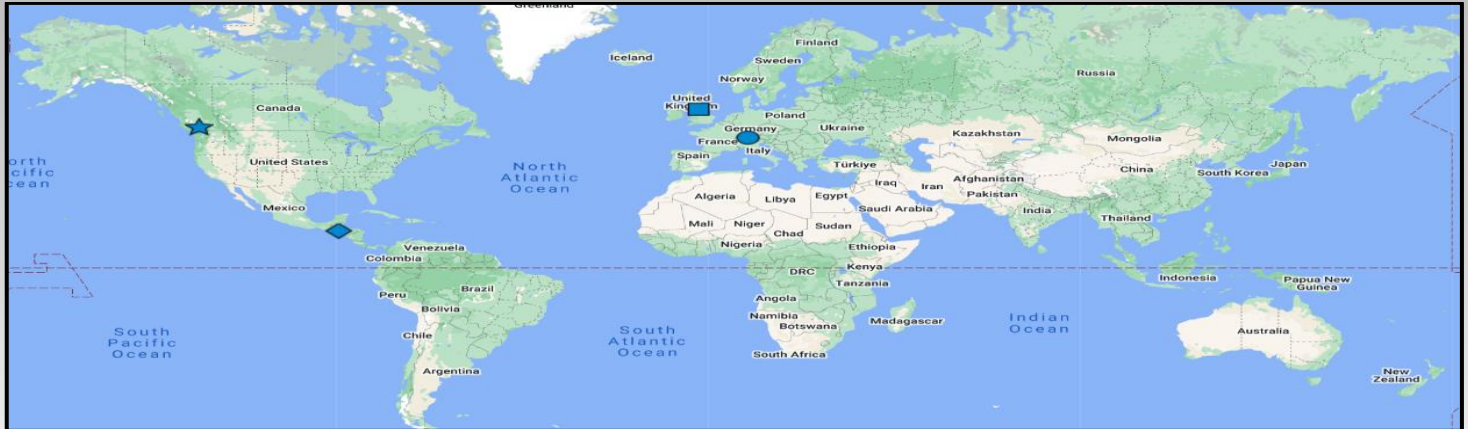


### Influenza A (H5)

- ◆ As of November 3, 2024, the CDC has confirmed 44 total human cases of influenza A(H5), 20 of which are recent reports from **California** (associated with dairy farm workers) and 9 are from **Washington** (associated with poultry farm workers) [Read More](#)



## NEW EVENTS: (events rated > 2)



### ■ Mpox clade 1b in the UK

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

① On October 30, 2024, the UK confirmed their first human case of mpox clade 1b in an individual in London who had recently travelled to Africa. Since then, two household contacts of the first case have tested positive, bringing the total number of confirmed cases in the UK to 3. Additional contact tracing is underway. [Read More](#)

|                |     |
|----------------|-----|
| Avg. Rating    | 2.8 |
| No. of Signal  | 1   |
| No. of Ratings | 6   |

### ● Bluetongue serotype 3 in Liechtenstein

**Pathogen:** virus; **Transmission:** vector – culicoides; **Species affected in event:** sheep, cattle

① Liechtenstein has reported outbreaks of BTV-3 for the first time. Three outbreaks have been reported in the country, one in the south and two in the north. [Read More](#)

|                |     |
|----------------|-----|
| Avg. Rating    | 2.7 |
| No. of Signal  | 1   |
| No. of Ratings | 6   |

### ◆ New world screwworm in Guatemala

**Pathogen:** parasitic fly; **Transmission:** wound myiasis; **Species affected in event:** cattle

① Guatemala has reported a recurrence of New world screwworm, last reported in 1992. One case was identified in a two-month-old heifer with myiasis on the left flank in Aldea Rio Blanco. [Read More](#)

|                |     |
|----------------|-----|
| Avg. Rating    | 2.6 |
| No. of Signal  | 1   |
| No. of Ratings | 5   |

### ★ Jamestown Canyon/Snowshoe Hare virus in British Columbia

**Pathogen:** bacteria; **Transmission:** vector - mosquito; **Species affected in event:** human

① British Columbia has reported a cluster of three pediatric cases of Jamestown Canyon/Snowshoe Hare virus in Whistler, all with symptom onset in August 2024. Cases of JCV/SSHV have been identified in BC and across Canada for decades, but reports of human illness are rare. Prior to this cluster, ten cases of JCV/SSHV had been reported in BC since 2009, two of which were in the Vancouver region. [Read More](#)

|                |     |
|----------------|-----|
| Avg. Rating    | 2.6 |
| No. of Signal  | 1   |
| No. of Ratings | 5   |

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

- Highly Pathogenic Avian Influenza in North America** **No. of Signals: 16** **No. of weeks in report: 140** **Avg. Rating: 1.8 - 3.5**
- Over the last week, [Canada](#) reported additional outbreaks of HPAI in commercial poultry in: British Columbia(9); and in non-commercial poultry in: British Columbia(1)
  - Over the last week, the [USDA](#) has reported outbreaks of HPAI in commercial poultry in: California(5); and in WOA non-poultry in: California(1), Washington(2), Pennsylvania(1), Oregon(1), and Montana(1)
  - [Oregon](#) has confirmed HPAI H5N1 in a pig from a backyard farming operation that also held positive poultry and had shared water sources, housing, and equipment; genetic sequencing has identified it as strain 2.3.4.4b genotype D1.2, which is different from the B3.13 currently spreading in dairy cattle
  - As of November 3, 2024, the [USDA](#) has reported influenza A (H5N1) in a total of 442 dairy herds across 15 states: Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Utah(8), [Minnesota](#)(9), New Mexico(9), Iowa(13), Texas(26), [Michigan](#)(29), Idaho(35), [Colorado](#)(64), and California(233); the recent outbreaks were reported from California(55) and Utah(8)
  - The [USDA](#) is planning to enhance testing and monitoring for H5N1 by conducting bulk milk tank testing across all states, first sampling milk in bulk at the regional level, with additional testing at the farm level if necessary, until herds in an area are determined to be free of the virus
  - In [California](#), HPAI H5 has been detected at low levels for the first time at one of the wastewater sampling sites in Los Angeles County
  - 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: 07** **No. of weeks in report: 28** **Avg. Rating: 2.0 - 3.4**
- As of November 3, 2024 the [CDC](#) has confirmed 44 total human cases of influenza A(H5), 20 of which are recent reports from California (associated with dairy farm workers) and 9 are from Washington (associated with poultry farm workers)
  - Three of the recent [Washington](#) IAV cases were reported to have travelled to Oregon during their infection; they have all returned to Washington and continue to be monitored
- Highly Pathogenic Avian Influenza in Europe** **No. of Signals: 23** **No. of weeks in report: 197** **Avg. Rating: 2.0 - 3.0**
- [France](#) has confirmed two outbreaks of HPAI in previously vaccinated commercial duck farms in Brittany
  - [Hungary](#), [Albania](#), [Poland](#), [Moldova](#), [Slovakia](#), [Romania](#), and [Bulgaria](#) have reported outbreaks of HPAI H5N1 in domestic poultry
  - [Austria](#), [Hungary](#), [Italy](#), [Slovakia](#), [Slovenia](#), and [North Macedonia](#) have reported cases of HPAI H5N1 in wild birds
  - The [UK](#) has reported additional cases of 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: 05** **No. of weeks in report: 161** **Avg. Rating: 2.0 - 2.2**
- [Japan](#) and [South Korea](#) have reported HPAI H5N1 in domestic poultry
  - [Japan](#) and [Israel](#) have reported HPAI H5N1 in wild birds

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### Influenza

- ◆ A human isolate of bovine H5N1 is transmissible and lethal in animal models [Read More](#)
- ◆ Transmission of a human isolate of clade 2.3.4.4b A(H5N1) virus in ferrets [Read More](#)
- ◆ Highly pathogenic avian influenza (HPAI) H5 virus exposure in domestic cats and rural stray cats, the Netherlands, October 20 20 to June 2023 [Read More](#)
- ◆ Genetic and pathogenic potential of highly pathogenic avian influenza H5N8 viruses from live bird markets in Egypt in avian and mammalian models [Read More](#)
- ◆ ECDC - Surveillance and targeted testing for the early detection of zoonotic influenza in humans during the winter period in the EU/EEA [Read More](#)

### Mpox

- ◆ Clade I mpox virus genomic diversity in the Democratic Republic of the Congo, 2018–2024: Predominance of zoonotic transmission [Read More](#)
- ◆ WHO - Mpox Multi-country external situation report no. 41, published 26 October 2024 [Read More](#)

### Vectors and Vector borne Diseases

- ◆ First Report of *Haemaphysalis longicornis* (Neumann) in Oklahoma, USA [Read More](#)
- ◆ Outbreak of Western Equine Encephalitis Virus Infection Associated with Neurological Disease in Horses Following a Nearly 40-Year Intermission Period in Argentina [Read More](#)
- ◆ Iquitos Virus in Traveler Returning to the United States from Ecuador [Read More](#)
- ◆ Canine leishmaniasis caused by *Leishmania TROPICA* in southeastern Iran: a case series study [Read More](#)

### Other

- ◆ Rabies in Cats-An Emerging Public Health Issue [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 05/11/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 26 October – 1 November 2024, week 44 [Read More](#)
- ◆ SHIC Domestic Disease Monitoring Report – November 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.