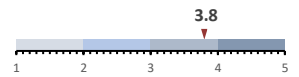


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

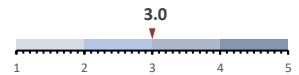
### Highly Pathogenic Avian Influenza

- ◆ **Canada** has reported a second outbreak of HPAI H5N2 in commercial poultry in **Abbotsford, British Columbia**
- ◆ Over the last week, **Canada** reported additional outbreaks of HPAI in commercial poultry in: **British Columbia**(8)
- ◆ As of December 7, 2024, the USDA has reported influenza A(H5N1) in 720 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**(506)
  - All of the recent outbreaks were reported from **California**(25)
- ◆ **Nevada** has reported a suspected detection of influenza A(H5N1) in dairy cattle in **Nye County**, which, if confirmed, would be the first detection in the state
- ◆ Over the last week, the USDA has reported outbreaks of HPAI in commercial poultry in: **California**(9), **South Dakota**(3), and **Oklahoma**(1); in WOAHP poultry in: **California**(1) and **North Dakota**(1); and in WOAHP non-poultry in: **California**(1), **Colorado**(1), **Kansas**(1) and **Utah**(1)
- ◆ Research Letter: “Evidence of Influenza A(H5N1) Spillover Infections in Horses, Mongolia”
  - Reports some serologic evidence of H5N1 virus infection in horses in Mongolia

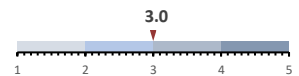
[Read More](#)



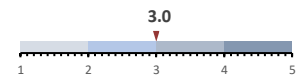
[Read More](#)



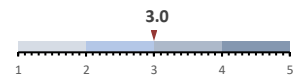
[Read More](#)



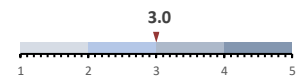
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### Influenza A (H5)

- ◆ **Arizona** has reported its first human cases of influenza A(H5) in two poultry workers who experienced mild symptoms and have since recovered
- ◆ In **California, Marion County** Public Health is investigating a possible human case of influenza A (H5) in a child; it is unclear when and where the child may have been exposed

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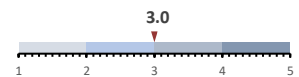
[Read More](#)



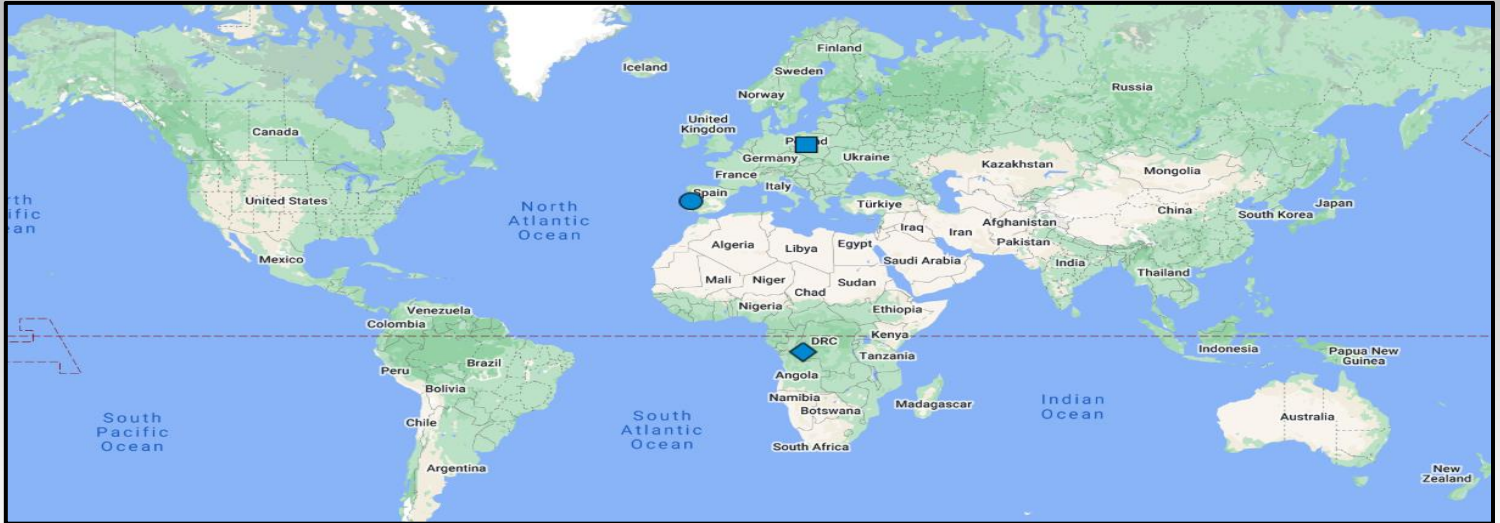
### Chronic Wasting Disease

- ◆ **British Columbia** has reported its fourth case of CWD in the **Kootenay region**, in a white-tailed deer harvested in October

[Read More](#)



## NEW EVENTS: (events rated > 2)



### ■ **Bluetongue serotype 3 in Poland**

**Pathogen:** virus; **Transmission:** vector - culicoides; **Species affected in event:** cattle

① Poland has reported its first cases of BTV-3, in cattle in Rajczyn.

[Read More](#)

Avg. Rating	2.0 - 2.8
No. of Signal	2
No. of Ratings	4

### ● **Bluetongue serotype 8 in Portugal**

**Pathogen:** virus; **Transmission:** vector - culicoides; **Species affected in event:** cattle

① Portugal has reported its first cases of BTV-8, in cattle in Nisa.

[Read More](#)

Avg. Rating	2.0 - 2.3
No. of Signal	2
No. of Ratings	4 - 6

### ◆ **Undiagnosed disease in the Democratic Republic of the Congo**

**Pathogen:** unknown; **Transmission:** unknown; **Species affected in event:** human

① Between October 24 and as of December 5, 2024, the Panzi health zone in Kwango Province has recorded 406 cases of an undiagnosed disease with symptoms of fever, headache, cough, runny nose and body ache, along with 31 deaths. Cases have been reported from nine out of 30 health areas in Panzi health zone and children aged 0-14 years represent 64.3% of all reported cases. Given the clinical presentation and symptoms reported, and a number of associated deaths, acute pneumonia, influenza, COVID-19, measles and malaria are being considered as potential causal factors with malnutrition as a contributing factor.

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Avg. Rating	2.0 - 2.3
No. of Signal	2
No. of Ratings	4

## CONTINUED EVENTS: (events rated ≥ 2.4)

<b>Highly Pathogenic Avian Influenza in North America</b>	<b>No. of Signals: 10</b>	<b>No. of weeks in report: 146</b>	<b>Avg. Rating: 2.0 - 3.8</b>
<ul style="list-style-type: none"> <li>Over the last week, <a href="#">Canada</a> reported additional outbreaks of HPAI in commercial poultry in: British Columbia(8)</li> <li><a href="#">Canada</a> has reported a second outbreak of HPAI H5N2 in commercial poultry in Abbotsford, British Columbia</li> <li>Over the last week, the <a href="#">USDA</a> has reported outbreaks of HPAI in commercial poultry in: California(9), South Dakota(3), and Oklahoma(1); in WOAHPoultry in: California(1) and North Dakota(1); and in WOAHP non-poultry in: California(1), Colorado(1), Kansas(1) and Utah(1)</li> <li><a href="#">Hawaii</a> has confirmed HPAI in a backyard flock of birds in the Pearl Harbor area</li> <li>As of December 7, 2024, the <a href="#">USDA</a> has reported influenza A (H5N1) in 720 dairy herds across 15 states; Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), <a href="#">Minnesota</a>(9), New Mexico(9), Iowa(13), Utah(13), Texas(26), <a href="#">Michigan</a>(29), Idaho(35), <a href="#">Colorado</a>(64), and California(506); all of the recent outbreaks were reported from California(25)</li> <li><a href="#">Nevada</a> has reported a suspected detection of influenza A(H5N1) in dairy cattle in Nye County, which, if confirmed, would be the first detection in the state</li> <li><a href="#">California</a> has issued a broad, voluntary recall of all Raw Farm, LLC raw milk and cream products due to possible avian influenza contamination</li> <li>Wastewater surveillance dashboards for influenza can be found at the <a href="#">CDC</a> and Stanford University's <a href="#">WastewaterSCAN</a></li> </ul>			
<b>Chronic Wasting Disease in Canada</b>	<b>No. of Signals: 01</b>	<b>No. of weeks in report: 12</b>	<b>Avg. Rating: 3.0</b>
<ul style="list-style-type: none"> <li><a href="#">British Columbia</a> has reported its fourth case of CWD in the Kootenay region, in a white-tailed deer harvested in October</li> </ul>			
<b>Influenza A (H5) in the USA</b>	<b>No. of Signals: 03</b>	<b>No. of weeks in report: 33</b>	<b>Avg. Rating: 2.8 - 3.0</b>
<ul style="list-style-type: none"> <li><a href="#">Arizona</a> has reported its first human cases of influenza A(H5) in two poultry workers who experienced mild symptoms and have since recovered</li> <li>In <a href="#">California</a>, Marion County Public Health is investigating a possible human case of influenza A (H5) in a child; it is unclear when and where the child may have been exposed</li> </ul>			
<b>Influenza A (H5N1) in Vietnam</b>	<b>No. of Signals: 01</b>	<b>No. of weeks in report: 04</b>	<b>Avg. Rating: 2.8</b>
<ul style="list-style-type: none"> <li><a href="#">Vietnam</a> has reported a human case of influenza A(H5N1) in an individual from Long An province; the patient was hospitalized but is currently stable and authorities are awaiting the results of N-gene sequencing analysis</li> </ul>			
<b>New World Screwworm in Central/North America</b>	<b>No. of Signals: 02</b>	<b>No. of weeks in report: 16</b>	<b>Avg. Rating: 2.5</b>
<ul style="list-style-type: none"> <li><a href="#">Mexico</a> has reported a second case of new world screwworm in Chiapas in a 15-day-old calf in a farm in the municipality of Frontera Hidalgo, eight kilometers from the border with Guatemala</li> <li>The recent resurgence of the new world screwworm in Mexico and central America may be driven by <a href="#">illegal cattle trafficking</a> as some of the “major screwworm outbreak hotspots closely mirror cattle smuggling routes”</li> </ul>			
<b>Bovine Spongiform Encephalopathy in Scotland</b>	<b>No. of Signals: 01</b>	<b>No. of weeks in report: 02</b>	<b>Avg. Rating: 2.5</b>
<ul style="list-style-type: none"> <li><a href="#">Scotland</a> has confirmed a single case of atypical BSE on a farm in Dumfries and Galloway, identified as a result of routine BSE surveillance</li> </ul>			
<b>Highly Pathogenic Avian Influenza in Europe</b>	<b>No. of Signals: 12</b>	<b>No. of weeks in report: 202</b>	<b>Avg. Rating: 2.0 - 2.3</b>
<ul style="list-style-type: none"> <li>The <a href="#">UK</a> has tested 508 bulk milk tank samples from 455 farms for influenza A H5N1; all BMT samples were negative for HPAI virus using the front-line PCR test, demonstrating conclusively that HPAI is not in Great Britain cattle</li> <li>The <a href="#">UK</a> has agreed to contract more than five million doses of human H5 influenza vaccine in an effort to boost pandemic preparedness</li> <li><a href="#">Italy</a>, <a href="#">Austria</a>, the <a href="#">Czech Republic</a>, and <a href="#">Germany</a> have reported outbreaks of HPAI H5N1 in domestic poultry</li> <li><a href="#">Slovenia</a>, <a href="#">Hungary</a>, the <a href="#">Czech Republic</a>, <a href="#">Ireland</a>, and <a href="#">Austria</a> have reported cases of HPAI H5N1 in wild birds</li> <li>A summary of the overall HPAI situation in Europe is available <a href="#">here</a></li> </ul>			
<b>Highly Pathogenic Avian Influenza in South America</b>	<b>No. of Signals: 01</b>	<b>No. of weeks in report: 79</b>	<b>Avg. Rating: 2.2</b>
<ul style="list-style-type: none"> <li><a href="#">Colombia</a> has reported HPAI H5 in non-poultry backyard birds in the village of Capitancito, Choco</li> </ul>			
<b>Highly Pathogenic Avian Influenza in Asia</b>	<b>No. of Signals: 03</b>	<b>No. of weeks in report: 166</b>	<b>Avg. Rating: 2.0</b>
<ul style="list-style-type: none"> <li><a href="#">Türkiye</a> has reported five outbreaks of HPAI H5N1 in domestic poultry, which started in late October 2024</li> <li><a href="#">South Korea</a> has reported three more outbreaks of HPAI at regional farms, bringing the season's total to eight</li> </ul>			

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### Coronavirus

- ◆ SARS-CoV-2 surveillance in captive animals at the Belo Horizonte Zoo, Minas Gerais, Brazil [Read More](#)

### Influenza

- ◆ A single mutation in bovine influenza H5N1 hemagglutinin switches specificity to human receptors [Read More](#)
- ◆ Evidence of Influenza A(H5N1) Spillover Infections in Horses, Mongolia [Read More](#)
- ◆ Influenza A(H5N1) Virus Clade 2.3.2.1a in Traveler Returning to Australia from India, 2024 [Read More](#)
- ◆ Influenza A(H5N1) shedding in air corresponds to transmissibility in mammals [Read More](#)
- ◆ Highly Pathogenic H5N1 Influenza A Virus (IAV) in Blue-Winged Teal in the Mississippi Flyway Is Following the Historic Seasonal Pattern of Low-Pathogenicity IAV in Ducks [Read More](#)
- ◆ Incidence of highly pathogenic avian influenza H5N1 in pinnipeds in Uruguay [Read More](#)
- ◆ Origin, pathogenicity, and transmissibility of a human isolated influenza A(H10N3) virus from China [Read More](#)
- ◆ UKHSA - Incubation and infectious period of influenza A (H5) - A rapid evidence summary [Read More](#)
- ◆ UKHSA - Incubation and infectious period of influenza A (H5) in non-human mammals - A rapid evidence summary [Read More](#)
- ◆ UKHSA - Clinical and epidemiological characteristics of people with conjunctivitis caused by influenza A (H5 or H7) A rapid evidence summary [Read More](#)
- ◆ FAO - Recommendations for the surveillance of influenza A(H5N1) in cattle [Read More](#)
- ◆ WOAHP statement - High Pathogenicity Avian Influenza (HPAI) in Cattle [Read More](#)

### Vectors and Vector Borne Diseases

- ◆ Integrated surveillance for Oropouche Virus: Molecular evidence of potential urban vectors during an outbreak in the Brazilian Amazon [Read More](#)
- ◆ WHO DON - Oropouche virus disease - Region of the Americas [Read More](#)
- ◆ Revisiting the risk of introduction of Japanese encephalitis virus (JEV) into the United States – An updated semi-quantitative risk assessment [Read More](#)

### Other

- ◆ Vietnam Online Market Monitoring Report – Illegal animal trade [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 10/12/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 30 November – 6 December 2024, week 49 [Read More](#)
- ◆ SHIC Global 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.