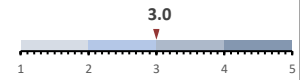


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

### Influenza A (H5N1)

◆ **Cambodia** has reported two additional human cases of avian influenza A(H5N1), one in a 4-year-old boy and the other in a 16-year-old girl, both from **Svay Rieng Province** (although different villages), and both with exposure to dead poultry (chickens and ducks); the viral clade has not been reported yet, but is likely to be the older 2.3.2.1c clade identified in all of the other cases reported from **Cambodia**

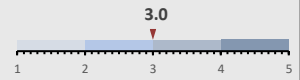
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### Highly Pathogenic Avian Influenza

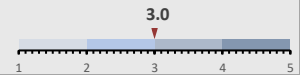
◆ As of August 5, 2024, the USDA has reported influenza A H5N1 in a total of 179 dairy herds across 13 states: **Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(8), Iowa(13), Texas(24), Michigan(27), Idaho(30), and Colorado(52)**

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◆ **Colorado** has reported its first cases of HPAI H5N1 in deer mice (N=14) and house mice (N=8)

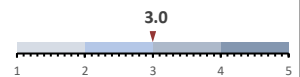
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### Mpox

◆ The outbreak of mpox (clade Ib) that has been spreading in the **Democratic Republic of the Congo** has spread beyond its borders, sequencing of three cases reported earlier this week in **Uganda** and **Kenya** has now confirmed they all belong to a deadlier variant (clade Ib) previously seen only in the **DRC**

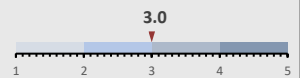
[Read More](#)



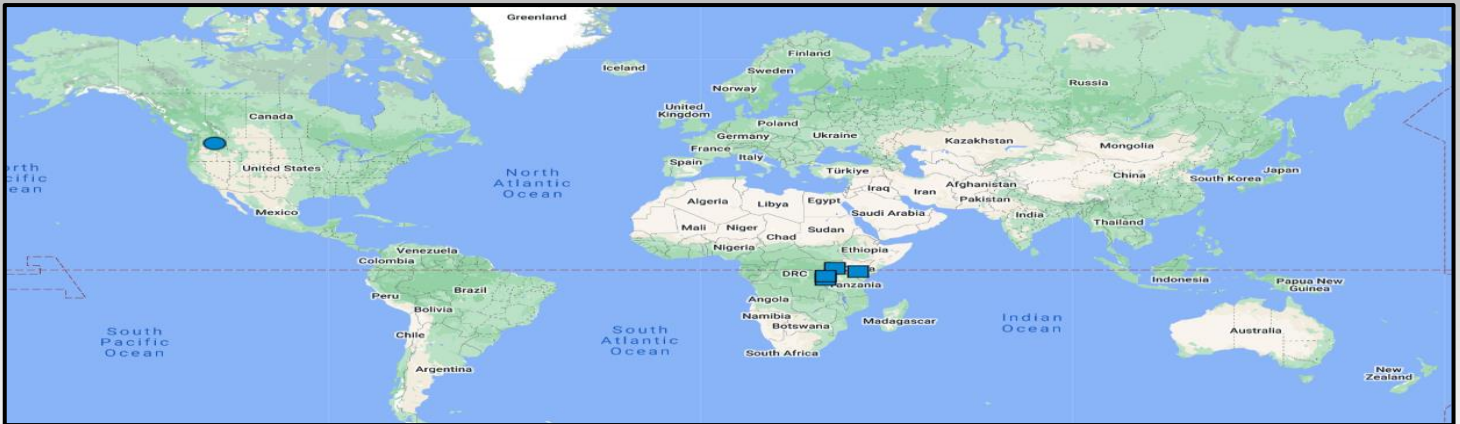
### Chronic Wasting Disease

◆ **Washington** has confirmed its first case of CWD in a white-tailed deer found dead in **Spokane**

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## NEW EVENTS: (events rated > 2)



### Chronic Wasting Disease in Washington State

**Pathogen:** prion; **Transmission:** direct contact, environment (soil, food, water); **Species affected in event:** white-tailed deer

① Washington has confirmed its first case of CWD in the state, specifically in a female white-tailed deer found dead in Spokane. Confirmation was made by the Washington Animal Disease Laboratory, which tested lymph nodes from the deer submitted in July with a batch of other samples for testing. Washington is now the 35<sup>th</sup> state with documented CWD in wild or captive cervids. CWD has also been found in four Canadian provinces.

[Read More](#)

Avg. Rating	3.0
No. of Signal	1
No. of Ratings	3

### Mpox spread in Africa (Kenya, Uganda, Burundi, Rwanda)

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

① Mpox cases have recently been reported for the first time in Kenya, Uganda, Burundi, and Rwanda. [Kenya](#) reported mpox in a truck driver traveling from Uganda to Rwanda at a border crossing in southern Kenya. [Uganda](#) detected its first two cases of mpox in the western border district of Kasese, in the towns of Mpondwe and nearby Bwera, however the infections did not take place in Uganda but came from DRC. Sequencing of three cases reported from Uganda and Kenya has now confirmed all belong to a deadlier variant (clade Ib) previously seen only in the DRC.

[Burundi](#) has reported its first outbreak of mpox, with 37 confirmed cases and 193 suspected cases as of August 6, 2024. Meanwhile, [Rwanda](#) reported two confirmed cases of mpox in the Gasabo and Rusizi districts, sequencing results identifying it as mpox Clade Ia.

[Read More](#)

Avg. Rating	2.0 - 3.0
No. of Signal	5
No. of Ratings	4 - 6

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

<b>Highly Pathogenic Avian Influenza in North America</b>	<b><u>No. of Signals: 07</u></b>	<b><u>No. of weeks in report: 127</u></b>	<b><u>Avg. Rating: 2.0 - 3.0</u></b>
<ul style="list-style-type: none"> <li>• <a href="#">Canada</a> has not reported any outbreaks of HPAI in domestic poultry over the last week</li> <li>• The <a href="#">USDA</a> has not reported any outbreaks of HPAI in domestic poultry over the last week</li> <li>• As of August 5, 2024, the <a href="#">USDA</a> has reported influenza A H5N1 in a total of 179 dairy herds across 13 states: Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), <a href="#">Minnesota</a>(9), New Mexico(8), Iowa(13), Texas(24), <a href="#">Michigan</a>(27), Idaho(30), and <a href="#">Colorado</a>(52)</li> <li>• <a href="#">Colorado</a> has reported its first cases of HPAI H5N1 in deer mice (N=14) and house mice (N=8)</li> <li>• <a href="#">Oklahoma</a> is now requiring all dairy cattle to be tested before going to exhibitions</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>Influenza A(H5N1) in Cambodia</b>	<b><u>No. of Signals: 02</u></b>	<b><u>No. of weeks in report: 12</u></b>	<b><u>Avg. Rating: 1.2 - 3.0</u></b>
<ul style="list-style-type: none"> <li>• <a href="#">Cambodia</a> has reported two additional human cases of avian influenza A(H5N1), one in a 4-year-old boy and the other in a 16-year-old girl, both from Svay Rieng Province (although different villages), and both with exposure to dead poultry (chickens and ducks); the viral clade has not been reported yet, but is likely to be the older 2.3.2.1c clade identified in all of the other cases reported from Cambodia</li> <li>• A <a href="#">new initiative</a> has been launched to advance mRNA vaccine development against human avian influenza (H5N1)</li> </ul>			
<b>Contagious Equine Metritis in the USA</b>	<b><u>No. of Signals: 01</u></b>	<b><u>No. of weeks in report: 02</u></b>	<b><u>Avg. Rating: 2.8</u></b>
<ul style="list-style-type: none"> <li>• <a href="#">Florida</a> has reported CEM in 11 horses in Orange County, with 86 horses exposed; the cases are connected to a domestic pony stallion that bred mares via live cover</li> </ul>			
<b>Peste des Petits Ruminants in Europe</b>	<b><u>No. of Signals: 04</u></b>	<b><u>No. of weeks in report: 04</u></b>	<b><u>Avg. Rating: 2.3 - 2.8</u></b>
<ul style="list-style-type: none"> <li>• <a href="#">Romania</a> has reported 24 additional outbreaks of PPR since last week, for a total of 56; all of the new outbreaks have occurred in already affected regions and there are currently 232,281 exposed animals, 5,109 cases, 4,914 deaths, and 42 animals killed and disposed of</li> <li>• <a href="#">Greece</a> has reported 20 additional outbreaks of PPR since last week, for a total of 42; several of the outbreaks are in new locations, spread throughout most of the country</li> </ul>			
<b>New World Screwworm in Central America</b>	<b><u>No. of Signals: 02</u></b>	<b><u>No. of weeks in report: 11</u></b>	<b><u>Avg. Rating: 2.0 - 2.4</u></b>
<ul style="list-style-type: none"> <li>• As of July 27, 2024, <a href="#">Panama</a> has reported 12,774 cases of New World Screwworm; Costa Rica has reported 4,386 cases; and Nicaragua has reported 1,242 cases</li> <li>• <a href="#">Panama</a> has officially reported 49 human cases of New World Screwworm so far in 2024; the positive cases range in age from 1-95 years</li> <li>• <a href="#">Costa Rica</a> has reported 19 human cases of New World Screwworm, 12 in men and 7 in women, with the majority of cases being in older adults</li> </ul>			
<b>Highly Pathogenic Avian Influenza in Europe</b>	<b><u>No. of Signals: 03</u></b>	<b><u>No. of weeks in report: 184</u></b>	<b><u>Avg. Rating: 2.0 - 2.3</u></b>
<ul style="list-style-type: none"> <li>• <a href="#">Scotland</a> has reported HPAI H5N5 in a wild bird</li> <li>• <a href="#">Belgium</a> and <a href="#">Portugal</a> have reported 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 Asia</b>	<b><u>No. of Signals: 01</u></b>	<b><u>No. of weeks in report: 150</u></b>	<b><u>Avg. Rating: 2.0</u></b>
<ul style="list-style-type: none"> <li>• The <a href="#">Philippines</a> have reported an outbreak of HPAI in a commercial chicken farm in Tarlac</li> </ul>			

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### Coronavirus

- ◆ Widespread exposure to SARS-CoV-2 in wildlife communities [Read More](#)

### Influenza

- ◆ Pre-print: A One Health Investigation into H5N1 Avian Influenza Virus Epizootics on Two Dairy Farms [Read More](#)
- ◆ Pre-print: Enhanced replication of contemporary human highly pathogenic avian influenza H5N1 virus isolate in human lung organoids compared to bovine isolate [Read More](#)
- ◆ Pre-print: Rapid neutralizing assay for circulating H5N1 influenza virus in dairy cows [Read More](#)
- ◆ Pre-print: An emerging PB2-627 polymorphism increases the pandemic potential of avian influenza virus by breaking through ANP32 host restriction in mammalian and avian hosts [Read More](#)
- ◆ Pre-print: Fucosylated and non-fucosylated  $\alpha$ 2,3 sialosides were detected on the bovine mammary gland tissues [Read More](#)
- ◆ Evaluating the Impact of Low-Pathogenicity Avian Influenza H6N1 Outbreaks in United Kingdom and Republic of Ireland Poultry Farms during 2020 [Read More](#)

### Vectors and Vector borne Diseases

- ◆ PAHO – Public Health Risk Assessment related to Oropouche Virus (OROV) in the Region of the Americas - 3 August 2024 [Read More](#)
- ◆ First Description of *Mycoplasma agalactiae* Anatomical Localization in Naturally Infected Hard Ticks (*Rhipicephalus bursa*) [Read More](#)
- ◆ Arthropod-Borne Viruses of Human and Animal Importance: Overwintering in Temperate Regions of Europe during an Era of Climate Change [Read More](#)

### Other

- ◆ Detections of Rabbit Hemorrhagic Disease Virus 2 (RHDV2) Following the 2020 Outbreak in Wild Lagomorphs across the Western United States [Read More](#)
- ◆ SHIC Report: Effects of Manure Pumping on Disease Spread in Growing Pigs [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 06/08/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 27 July - 2 August 2024, week 31 [Read More](#)
- ◆ SHIC Domestic Disease Monitoring Report – August 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.