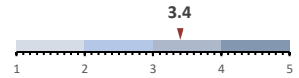


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

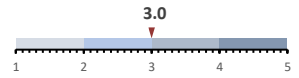
### Highly Pathogenic Avian Influenza

- ◆ As of August 12, 2024, the USDA has reported influenza A H5N1 in a total of 190 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(63)**
  - [Colorado](#) is the only state that reported additional affected dairy herds over the last week, 10 of which are a result of the mandatory bulk-tank milk testing
- ◆ **Colorado** has released details on six domestic cats diagnosed with HPAI H5N1 in the state in 2024
  - One cat was directly linked to a dairy farm; two were indoor only cats (no known direct exposures to the virus); three were indoor/outdoor cats (hunted mice and/or small birds); and five of the six presented with respiratory symptoms and neurological impairment

[Read More](#)



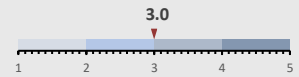
[Read More](#)



### Influenza A(H3N2)

- ◆ **Colorado** has reported a human case of influenza A(H3N2) variant in a patient <18 years-old, who sought care during the week ending July 13<sup>th</sup>, and had attended an agricultural event prior to illness onset
- ◆ **Michigan** has reported a human case of influenza A(H3N2) variant in a resident of **Inghan County**, who tested positive in late July, with no known links/exposure to swine or other animals

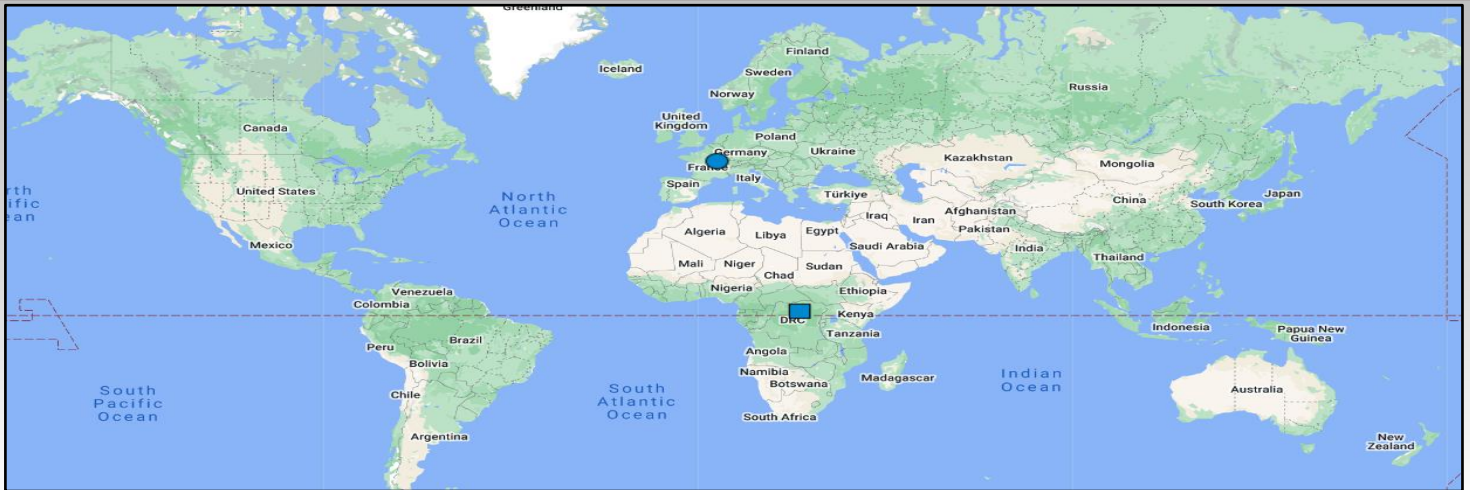
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## NEW EVENTS: (events rated > 2)



### Bluetongue virus serotype 3 in France

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

① France has reported its first outbreak of BTv-3 in a sheep flock in Hauts-de-France, very close to its border with Belgium. Since the initial report from the end of July 2023, an additional four outbreaks were reported in both sheep and cattle in Hauts-de-France and Grand Est.

[Read More](#)

Avg. Rating	2.4 - 2.8
No. of Signal	2
No. of Ratings	5

### Suspected Ebola in the Democratic Republic of Congo

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

① The Congolese government is currently investigating three suspected cases of Ebola virus in the Aketi health zone, in the north of the DRC. Samples were taken from a suspected case and two bodies of the patients who died in the health center of Dulia. Initial samples tested negative but due to issues with sample collection additional testing is underway.

[Read More](#)

Avg. Rating	2.4
No. of Signal	1
No. of Ratings	5

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

- |  |                           |                                    |                               |
|--|---------------------------|------------------------------------|-------------------------------|
| <b>Highly Pathogenic Avian Influenza in North America</b>  | <b>No. of Signals: 08</b> | <b>No. of weeks in report: 128</b> | <b>Avg. Rating: 1.4 - 3.4</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>• Over the last week, the <a href="#">USDA</a> reported outbreaks of HPAI in WOAHP poultry in: Florida(1)</li> <li>• As of August 12, 2024, the <a href="#">USDA</a> has reported influenza A H5N1 in a total of 190 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>(63)</li> <li>• <a href="#">Colorado</a> is the only state that reported additional affected dairy herds over the last week, 10 of which are a result of the mandatory bulk-tank milk testing</li> <li>• <a href="#">Colorado</a> has released details on six domestic cats diagnosed with HPAI H5N1 in the state in 2024: One cat was directly linked to a dairy farm; two were indoor only cats (no known direct exposures to the virus); three were indoor/outdoor cats (hunted mice and/or small birds); and five of the six presented with respiratory symptoms and neurological impairment</li> <li>• The <a href="#">CDC</a> has released a new IRAT assessment for A/Texas/37/2024, the avian influenza A(H5N1) clade 2.3.4.4b virus that was associated with a human infection in a person in Texas who had exposure to A(H5N1) virus-infected dairy cows</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(H3N2) in the USA</b>  | <b>No. of Signals: 02</b> | <b>No. of weeks in report: 18</b>  | <b>Avg. Rating: 3.0</b>       |
| <ul style="list-style-type: none"> <li>• <a href="#">Colorado</a> has reported a human case of influenza A(H3N2) variant in a patient &lt;18 years-old, who sought care during the week ending July 13th, and had attended an agricultural event prior to illness onset</li> <li>• <a href="#">Michigan</a> has reported a human case of influenza A(H3N2) variant in a resident of Ingham County, who tested positive in late July, with no known links/exposure to swine or other animals</li> </ul>   |                           |                                    |                               |
| <b>Peste des Petits Ruminants in Europe</b>  | <b>No. of Signals: 07</b> | <b>No. of weeks in report: 05</b>  | <b>Avg. Rating: 2.0 - 2.8</b> |
| <ul style="list-style-type: none"> <li>• <a href="#">Romania</a> has reported 2 additional outbreaks of PPR since last week, for a total of 58; the outbreaks are still concentrated in the east of the country and there are currently 232,729 exposed animals, 5,132 cases, 4,917 deaths, and 42 animals killed and disposed of</li> <li>• <a href="#">Greece</a> has reported 6 additional outbreaks of PPR since last week, for a total of 48; the outbreaks are spread throughout most of the country and there are currently 19,463 exposed animals, 2,079 cases, and 486 deaths</li> </ul>  |                           |                                    |                               |
| <b>Bluetongue virus in Europe</b>  | <b>No. of Signals: 01</b> | <b>No. of weeks in report: 08</b>  | <b>Avg. Rating: 2.4</b>       |
| <ul style="list-style-type: none"> <li>• The <a href="#">Netherlands</a> have now reported cases of BTV-3 in all 12 provinces of the country; as of this week, the total number of infections has risen to 1,722, with Gelderland, North Brabant, Limburg, and Overijssel experiencing the most outbreaks</li> </ul>   |                           |                                    |                               |
| <b>Dengue in Europe</b>  | <b>No. of Signals: 01</b> | <b>No. of weeks in report: 02</b>  | <b>Avg. Rating: 2.4</b>       |
| <ul style="list-style-type: none"> <li>• <a href="#">France</a> has reported a locally acquired case of dengue in the south east of the country, in a person from La Colle-sur-Loup near Nice and Cannes, who had not travelled to a contaminated area in the 15 days prior to symptom onset; in 2023, France reported 45 locally acquired dengue cases across seven regions</li> </ul>  |                           |                                    |                               |
| <b>African Swine Fever in Europe</b>   | <b>No. of Signals: 14</b> | <b>No. of weeks in report: 158</b> | <b>Avg. Rating: 2.0 - 2.4</b> |
| <ul style="list-style-type: none"> <li>• <a href="#">Italy</a>, <a href="#">Germany</a>, <a href="#">Moldova</a>, <a href="#">Bosnia and Herzegovina</a>, <a href="#">Romania</a>, and <a href="#">Ukraine</a> have reported cases of ASF in domestic swine</li> <li>• <a href="#">Italy</a>, <a href="#">Germany</a>, <a href="#">Hungary</a>, and <a href="#">Poland</a> have reported cases of ASF in wild boar</li> </ul>  |                           |                                    |                               |
| <b>Highly Pathogenic Avian Influenza in Asia</b>   | <b>No. of Signals: 02</b> | <b>No. of weeks in report: 151</b> | <b>Avg. Rating: 2.0 - 2.2</b> |
| <ul style="list-style-type: none"> <li>• <a href="#">Cambodia</a> has reported HPAI H5N1 in domestic birds in Svay Reing, the same province in which the two human cases were reported last week</li> <li>• <a href="#">China</a> has reported two outbreaks of HPAI H5N1 in wild unidentified species in Qinghai, dating back to May 2024</li> </ul>  |                           |                                    |                               |
| <b>Highly Pathogenic Avian Influenza in Europe</b>   | <b>No. of Signals: 08</b> | <b>No. of weeks in report: 185</b> | <b>Avg. Rating: 1.4 - 2.2</b> |
| <ul style="list-style-type: none"> <li>• <a href="#">Germany</a>, <a href="#">France</a>, <a href="#">Spain</a>, and <a href="#">Portugal</a> have reported HPAI H5N1 in wild birds</li> <li>• <a href="#">Finland</a> has received 20,000 doses of H5N8 avian influenza vaccines, enough to vaccinate 10,000 people with two doses; vaccination will target high risk individuals and occur throughout August and must be completed by end of September</li> <li>• A summary of the overall HPAI situation in Europe is available <a href="#">here</a></li> </ul>   |                           |                                    |                               |

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### Influenza

- ◆ Pre-print: Bovine H5N1 influenza virus binds poorly to human-type sialic acid receptors [Read More](#)
- ◆ CDC Influenza Risk Assessment Tool Virus Report - Highly pathogenic avian influenza A(H5N1) virus; clade 2.3.4.4b Virus Strain: A/Texas/37/2024 [Read More](#)
- ◆ Tracking the spread of avian influenza A(H5N1) with alternative surveillance methods: the example of wastewater data [Read More](#)
- ◆ Cocirculation of Genetically Distinct Highly Pathogenic Avian Influenza H5N5 and H5N1 Viruses in Crows, Hokkaido, Japan [Read More](#)

### Vectors and Vector borne Diseases

- ◆ Asian Longhorned Tick confirmed in Oklahoma for the first time [Read More](#)
- ◆ ECDC - Threat assessment brief: Oropouche virus disease cases imported to the European Union [Read More](#)
- ◆ Pre-print: Reemergence of Oropouche virus between 2023 and 2024 in Brazil [Read More](#)
- ◆ Hybridization between *Aedes aegypti* and *Aedes mascarensis* mosquitoes leads to disruption of male sex determination [Read More](#)
- ◆ Emerging *Leishmania donovani* Lineages Associated with Cutaneous Leishmaniasis, Himachal Pradesh, India, 2023 [Read More](#)
- ◆ USDA – Disease Response Strategy Japanese Encephalitis [Read More](#)

### Other

- ◆ First detection of PCV4 in swine in the United States: codetection with PCV2 and PCV3 and direct detection within tissue [Read More](#)
- ◆ Pre-print: Human cell adaptation of the swine acute diarrhea syndrome coronavirus spike protein [Read More](#)
- ◆ WHO Pathogens Prioritization Report [Read More](#)
- ◆ Isolation and characterization of *Leptospira licerasiae* in Austrian swine - a first-time case report in Europe [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 13/08/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 3 - 9 August 2024, week 32 [Read More](#)
- ◆ SHIC Global 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.