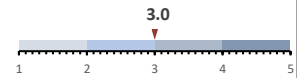


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

### Influenza A (H5)

- ◆ **California** is investigating another five suspected human cases of influenza A(H5) amongst dairy cattle workers, this is in addition to the six cases already confirmed by the state

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### Highly Pathogenic Avian Influenza

- ◆ As of October 13, 2024, the USDA has reported influenza A(H5N1) in a total of 300 dairy herds across 14 states: **Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Iowa(13), Texas(26), Michigan(29), Idaho(34), Colorado(64), and California(100)**

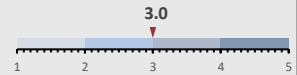
[Read More](#)



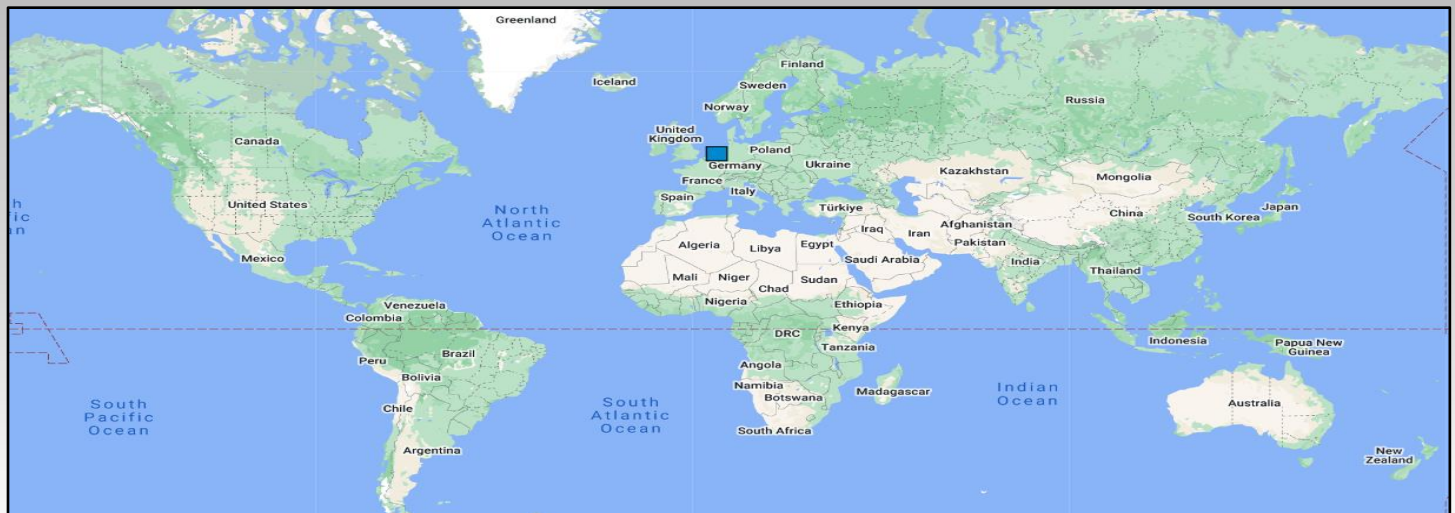
- All of the recent outbreaks have been reported from **California(17)**

- ◆ **Utah** has reported HPAI in a 1.8 million bird commercial poultry operation in northern **Cache County**; while **Utah** has not reported H5N1 in dairy cattle yet, the affected poultry farm is surrounded by a number of dairy cattle sites

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## NEW EVENTS: (events rated > 2)



### Bluetongue serotype 12 in the Netherlands

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

① On October 10, 2024, BTV-12 was reported in a sheep on a farm in Kockengen and in a cow and her calf on a farm in Harmelen. This serotype has never before occurred in the Netherlands, but it is prevalent in other countries outside Europe. Approximately 1,400 previously submitted samples will now be retrospectively examined for the new serotype and a distribution map will be created.

[Read More](#)

Avg. Rating	2.5
No. of Signal	1
No. of Ratings	2

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

<p><b><u>Influenza A (H5) in the USA</u></b></p> <ul style="list-style-type: none"> <li><a href="#">California</a> is investigating another five suspected human cases of influenza A(H5) amongst dairy cattle workers, this is in addition to the six cases already confirmed by the state</li> </ul>	<b><u>No. of Signals: 04</u></b>	<b><u>No. of weeks in report: 25</u></b>	<b><u>Avg. Rating: 3.0</u></b>
<p><b><u>Highly Pathogenic Avian Influenza in North America</u></b></p> <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> has reported outbreaks of HPAI in WOAHP poultry in: Florida(1)</li> <li>As of October 13, 2024, the <a href="#">USDA</a> has reported influenza A (H5N1) in a total of 300 dairy herds across 14 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), Texas(26), <a href="#">Michigan</a>(29), Idaho(34), <a href="#">Colorado</a>(64), and California(100); all recent outbreaks were reported from California(17)</li> <li><a href="#">Utah</a> has reported HPAI in a 1.8 million bird commercial poultry operation in northern Cache County; while Utah has not reported H5N1 in dairy cattle yet, the affected poultry farm is surrounded by a number of dairy cattle sites</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><u>No. of Signals: 05</u></b>	<b><u>No. of weeks in report: 137</u></b>	<b><u>Avg. Rating: 2.0 - 3.0</u></b>
<p><b><u>Mpox Worldwide</u></b></p> <ul style="list-style-type: none"> <li>In Canada, <a href="#">Montreal</a> is reporting sustained local transmission of mpox clade II, with 21 confirmed cases of mpox since mid-August and a total of 25 cases for all of 2024</li> <li>As of week 39, of 2024, <a href="#">Nigeria</a> has reported 84 confirmed cases of mpox (clade I) with 1,237 suspected cases</li> <li><a href="#">Uganda</a> continues to report cases of mpox (clade Ib), bringing the total number of confirmed cases to 69</li> <li><a href="#">Zimbabwe</a> has confirmed its first two cases of mpox (clade unspecified); the first in an 11-year-old boy and the second in a 24-year-old man, both cases reported travelling and are currently recovering</li> </ul>	<b><u>No. of Signals: 05</u></b>	<b><u>No. of weeks in report: 30</u></b>	<b><u>Avg. Rating: 2.0 - 2.8</u></b>
<p><b><u>Highly Pathogenic Avian Influenza in Asia</u></b></p> <ul style="list-style-type: none"> <li><a href="#">South Korea</a> has reported HPAI H5N3 in wild bird feces collected from the Mangyeonggang River in Gusan, Jeollabuk-do; this is the first time H5N3 has been confirmed in South Korea</li> </ul>	<b><u>No. of Signals: 01</u></b>	<b><u>No. of weeks in report: 158</u></b>	<b><u>Avg. Rating: 2.5</u></b>
<p><b><u>Oropouche in South America and Cuba</u></b></p> <ul style="list-style-type: none"> <li>Brazil has confirmed the first two autochthonous cases of Oropouche fever in the state of <a href="#">Paraíba</a>; three additional fetus deaths have also been reported in <a href="#">Pernambuco</a>, for a total of six cases confirmed with vertical transmission</li> </ul>	<b><u>No. of Signals: 02</u></b>	<b><u>No. of weeks in report: 07</u></b>	<b><u>Avg. Rating: 2.0 - 2.5</u></b>
<p><b><u>Highly Pathogenic Avian Influenza in Europe</u></b></p> <ul style="list-style-type: none"> <li><a href="#">Moldova</a>, <a href="#">Italy</a>, and <a href="#">Hungary</a> have reported outbreaks of HPAI H5N1 in domestic poultry</li> <li><a href="#">Italy</a> and <a href="#">Hungary</a> have reported cases of HPAI H5N1 in wild birds</li> <li><a href="#">Iceland</a> has reported HPAI H5N5 in wild birds</li> <li><a href="#">Germany</a> has reported HPAI in captive (zoo) birds</li> <li>A summary of the overall HPAI situation in Europe is available <a href="#">here</a></li> </ul>	<b><u>No. of Signals: 08</u></b>	<b><u>No. of weeks in report: 194</u></b>	<b><u>Avg. Rating: 2.0</u></b>
<p><b><u>Highly Pathogenic Avian Influenza in South America</u></b></p> <ul style="list-style-type: none"> <li><a href="#">Peru</a> has reported outbreaks of HPAI H5 in domestic poultry from early September 2024</li> </ul>	<b><u>No. of Signals: 01</u></b>	<b><u>No. of weeks in report: 76</u></b>	<b><u>Avg. Rating: 2.0</u></b>

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### Influenza

- ◆ PAHO - Epidemiological Alert - Human infections caused by avian influenza A(H5N1) in the Americas Region - 8 October 2024 [Read More](#)

### Mpox

- ◆ CDC- Notes from the Field: Mpox Cluster Caused by Tecovirimat-Resistant Monkeypox Virus — Five States, October 2023–February 2024 [Read More](#)
- ◆ Multi-country outbreak of mpox, External situation report #40 - 13 October 2024 [Read More](#)

### Vectors and Vector borne Diseases

- ◆ Replication-Competent Oropouche Virus in Semen of Traveler Returning to Italy from Cuba, 2024 [Read More](#)
- ◆ Beyond Human Babesiosis: Prevalence and Association of Babesia Coinfection with Mortality in the United States, 2015–2022: A Retrospective Cohort Study [Read More](#)
- ◆ Genomic surveillance reveals a dengue 2 virus epidemic lineage with a marked decrease in sensitivity to Mosnodenvir [Read More](#)

### Other

- ◆ ECDC - Implications of the Marburg virus disease outbreak in Rwanda for the EU/EEA, 2024 [Read More](#)
- ◆ WHO - Marburg virus disease global strategic preparedness and response plan for Rwanda [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 15/10/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 5-11 October 2024, week 41 [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.