

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

No relevant events to report this week

## NEW EVENTS: (events rated $> 2$ )

No new events to report this week

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

<b><u>Highly Pathogenic Avian Influenza in North America</u></b>	<b><u>No. of Signals: 05</u></b>	<b><u>No. of weeks in report: 106</u></b>	<b><u>Avg. Rating: 2.0 - 2.6</u></b>
<ul style="list-style-type: none"> <li>• <a href="#">Canada</a> has not reported any new outbreaks of HPAI in domestic poultry over the last week</li> <li>• Over the last week, the <a href="#">USA</a> reported an outbreak of HPAI in WOAHP poultry in: Massachusetts(1)</li> <li>• <a href="#">Washington</a> has reported HPAI H5N1 in three skunks in Stevens County</li> <li>• A summary of HPAI in <a href="#">Mexico</a> between October 2023 and February 2024 reports 6 outbreaks in domestic poultry (4 backyard, 2 commercial)</li> </ul>			
<b><u>Highly Pathogenic Avian Influenza in Europe</u></b>	<b><u>No. of Signals: 15</u></b>	<b><u>No. of weeks in report: 168</u></b>	<b><u>Avg. Rating: 2.0 - 2.2</u></b>
<ul style="list-style-type: none"> <li>• HPAI has killed ~30% of the northern gannet population in <a href="#">Alderney</a>, Channel Islands</li> <li>• The <a href="#">Czech Republic</a>, <a href="#">Romania</a>, <a href="#">Poland</a>, <a href="#">Bulgaria</a>, and <a href="#">Slovakia</a> have reported HPAI H5N1 in domestic poultry</li> <li>• <a href="#">Romania</a>, <a href="#">Austria</a>, <a href="#">Slovenia</a>, and <a href="#">Poland</a> have reported HPAI H5N1 in wild birds</li> <li>• <a href="#">Sweden</a> has reported HPAI H5 in wild birds</li> <li>• <a href="#">Norway</a> has reported HPAI H5 in a red fox</li> <li>• A summary of the overall HPAI situation in Europe is available <a href="#">here</a></li> </ul>			
<b><u>Highly Pathogenic Avian Influenza in Asia</u></b>	<b><u>No. of Signals: 05</u></b>	<b><u>No. of weeks in report: 132</u></b>	<b><u>Avg. Rating: 2.0</u></b>
<ul style="list-style-type: none"> <li>• <a href="#">Taiwan</a> has reported additional outbreaks of HPAI H5N1 in domestic poultry</li> <li>• <a href="#">Vietnam</a> reported three outbreaks of HPAI in February 2024 across 3 provinces: Khanh Hoa, Long An, and Ninh Binh</li> <li>• <a href="#">India</a> has reported an outbreak of HPAI in domestic poultry in Nagpur</li> </ul>			
<b><u>Highly Pathogenic Avian Influenza in Africa</u></b>	<b><u>No. of Signals: 04</u></b>	<b><u>No. of weeks in report: 68</u></b>	<b><u>Avg. Rating: 2.0</u></b>
<ul style="list-style-type: none"> <li>• <a href="#">South Africa</a> has reported 10 additional outbreaks of HPAI H7N6 with start dates from September 2023</li> <li>• <a href="#">Nigeria</a> has reported two outbreaks of HPAI H5N1 in domestic poultry</li> <li>• <a href="#">Burkina Faso</a> has reported a new outbreak of HPAI (domestic poultry suggested) in Kadiogo province, Centre region</li> <li>• <a href="#">Algeria</a> has reported an outbreak of AI in a chicken farm in the municipality of El Hadaiek</li> </ul>			
<b><u>Highly Pathogenic Avian Influenza in South America</u></b>	<b><u>No. of Signals: 01</u></b>	<b><u>No. of weeks in report: 63</u></b>	<b><u>Avg. Rating: 2.0</u></b>
<ul style="list-style-type: none"> <li>• <a href="#">Ecuador</a> has reported HPAI H5N1 in backyard poultry in Pastaza</li> </ul>			

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### Influenza

- ◆ The role of mammals in Avian Influenza: a review [Read More](#)
- ◆ Novel influenza A viruses in pigs with zoonotic potential, Chile [Read More](#)
- ◆ Rapid adaptive substitution of L226Q in HA protein increases the pathogenicity of H9N2 viruses in mice [Read More](#)
- ◆ Genetic Diversity and Biological Characteristics of H3 Avian Influenza Virus Isolated from China in 2021–2022 Showed the Emerging H3N8 Posed a Threat to Human Health [Read More](#)
- ◆ H7N6 highly pathogenic avian influenza in Mozambique, 2023 [Read More](#)
- ◆ Genetic insights of H9N2 avian influenza viruses circulating in Mali and phylogeographic patterns in Northern and Western Africa [Read More](#)
- ◆ An overlooked poultry trade network of the smallholder farms in the border provinces of Thailand, 2021: implications for avian influenza surveillance [Read More](#)

### Mpox

- ◆ Pre-print: Epidemiology, clinical characteristics, and transmission patterns of a novel Mpox (Monkeypox) outbreak in eastern Democratic Republic of the Congo (DRC): *an observational, cross-sectional cohort study* [Read More](#)
- ◆ Concurrent Clade I and Clade II Monkeypox Virus Circulation, Cameroon, 1979–2022 [Read More](#)

### Vectors and Vector-borne Diseases

- ◆ Pre-print: West Nile virus is transmitted within mosquito populations through infectious mosquito excreta [Read More](#)
- ◆ Pre-print: North-south pathways, emerging variants, and high climate suitability characterize the recent spread of dengue virus serotypes 2 and 3 in the Dominican Republic [Read More](#)
- ◆ PAHO: Epidemiological Update - Oropouche in the Region of the Americas - 6 March 2024 [Read More](#)
- ◆ Insecticide paints: a new community strategy for controlling dengue and zika mosquito vectors in Cabo Verde [Read More](#)
- ◆ Serological survey reveals enzootic circulation of St. Louis encephalitis and West Nile viruses in semiarid Monte ecosystem of Argentina [Read More](#)
- ◆ Changes in the Seroprevalence of Tick-Borne Rickettsia and Ehrlichia Among Soldiers-Fort Liberty, North Carolina, 1991-2019 [Read More](#)
- ◆ One Health in action: Investigation of the first detected local cluster of fatal borna disease virus 1 (BoDV-1) encephalitis, Germany 2022 [Read More](#)

### Other

- ◆ Molecular Epidemiology of Underreported Emerging Zoonotic Pathogen *Streptococcus suis* in Europe [Read More](#)
- ◆ Detection of a novel genotype of *Chlamydia buteonis* in falcons from the Emirates [Read More](#)
- ◆ WHO Update and Risk Assessment – Psittacosis in Europe [Read More](#)
- ◆ Incidental finding of a human-like tusavirus in a lamb with lip lesions and fatal pneumonia [Read More](#)
- ◆ WOA – Wildlife Diseases – Situation Report – December 2023 [Read More](#)
- ◆ SHIC Global Disease Monitoring Report – March 2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 3–9 March 2024, week 10 [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.