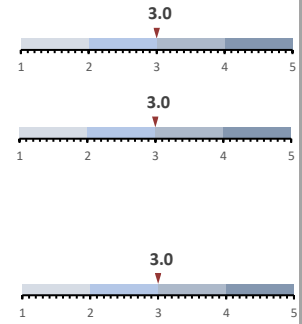


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

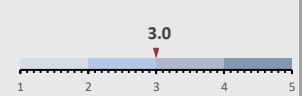
Highly Pathogenic Avian Influenza

- ◆ Over the last week, **Canada** reported additional outbreaks of HPAI in commercial poultry in: **British Columbia(2)** and **Saskatchewan(1)** [Read More](#)
- ◆ As of October 28, 2024, the USDA has reported influenza A(H5N1) in a total of 380 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(36)**, **Colorado(64)**, and **California(178)**
 - The recent outbreaks were reported from **California(45)** and **Idaho(2)**
- ◆ Over the last week, the USDA has reported outbreaks of HPAI H5N1 in commercial poultry in: **Oregon(1)** and **California(1)**; and in WOA non-poultry in: **Oregon(1)** and **Washington(1)** [Read More](#)



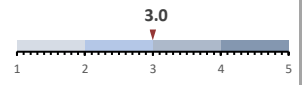
Influenza A (H5)

- ◆ As of October 28, 2024, the CDC has confirmed 36 total human cases of influenza A(H5), 16 of which are recent reports from **California** (associated with dairy farm workers) and 6 are from **Washington** (associated with poultry farm workers) [Read More](#)

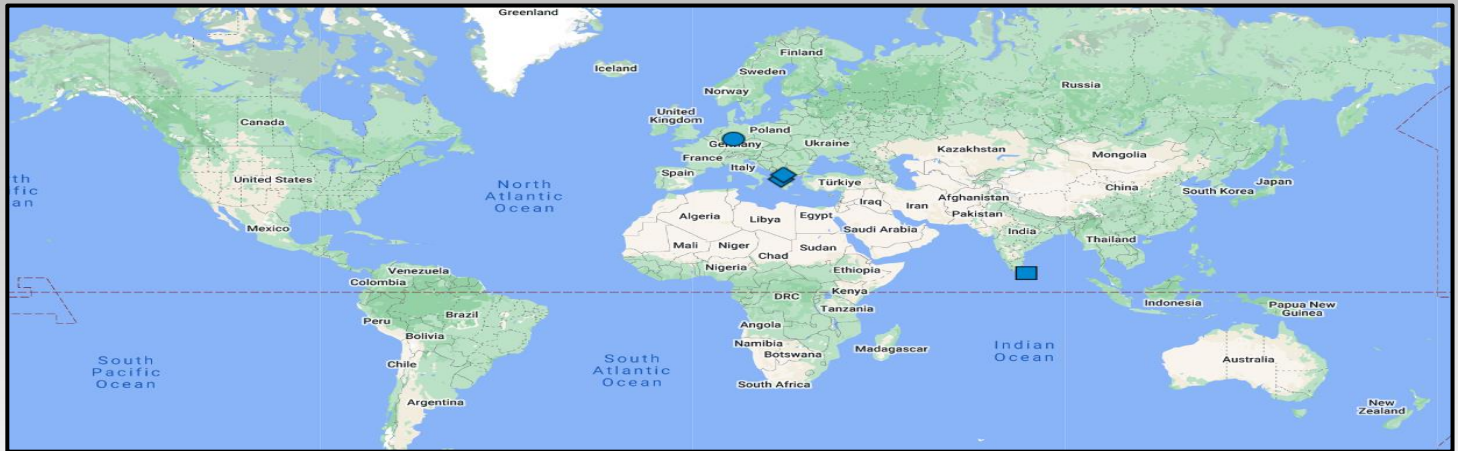


African Swine Fever

- ◆ **Sri Lanka** has reported its first outbreaks of ASF, not yet confirmed to WOA; initial reports of sudden pig deaths occurred in **Western province** but have now also been detected in **Uva**, and in the **Northern** and **North Western provinces** [Read More](#)



NEW EVENTS: (events rated > 2)



■ African Swine Fever in Sri Lanka

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

① Sri Lanka has reported its first outbreaks of ASF, not yet confirmed to WOA. Initial reports of sudden pig deaths in the Western province were initially identified as porcine reproductive and respiratory syndrome, however field tests were positive for ASF. Cases have now also been detected in Uva, and in the Northern and North Western provinces.

[Read More](#)

Avg. Rating	2.0 - 3.0
No. of Signal	2
No. of Ratings	4

● Mpox clade I in Germany

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

① Germany has reported its first case of mpox clade I in an individual who recently travelled abroad.

[Read More](#)

Avg. Rating	2.7
No. of Signal	1
No. of Ratings	6

◆ Bluetongue serotype 8 in North Macedonia and Greece

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

① North Macedonia has reported its first outbreak of BTV-8 in a mixed sheep/goat herd in Demir Kapija.

[Read More](#)

Avg. Rating	2.0 - 2.5
No. of Signal	4
No. of Ratings	4 - 5

① Greece has reported a recurrence of BTV-8, previously reported in early 2009. Cases were identified in sheep on the Ionian Islands.

[Read More](#)

CONTINUED EVENTS: (events rated ≥ 2.4)

<p>Highly Pathogenic Avian Influenza in North America</p> <ul style="list-style-type: none"> Over the last week, Canada reported additional outbreaks of HPAI in commercial poultry in: British Columbia(2) and Saskatchewan(1) Over the last week, the USDA has reported outbreaks of HPAI in commercial poultry in: Oregon(1) and California(1); and in WOA non-poultry in: Oregon(1) and Washington(1) As of October 28, 2024, the USDA has reported influenza A (H5N1) in a total of 380 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(36), Colorado(64), and California(178); the recent outbreaks were reported from California(45) and Idaho(2) Wastewater surveillance dashboards for influenza can be found at the CDC and Stanford University's WastewaterSCAN 	<p>No. of Signals: 03</p>	<p>No. of weeks in report: 139</p>	<p>Avg. Rating: 3.0</p>
<p>Influenza A (H5) in the USA</p> <ul style="list-style-type: none"> As of October 28, 2024 the CDC has confirmed 36 total human cases of influenza A(H5), 16 of which are recent reports from California (associated with dairy farm workers) and 6 are from Washington (associated with poultry farm workers); testing of additional specimens from suspected cases in Washington is ongoing Serological testing of the contacts of the Missouri influenza A(H5N1) case revealed that all health care workers were seronegative, however the one household contact had some evidence (inconsistent) of prior exposure or previous infection with H5N1; the similar immunologic results coupled with the epidemiologic data that these two individuals had identical symptom onset dates support a single common exposure to avian influenza rather than person-to-person spread within the household 	<p>No. of Signals: 09</p>	<p>No. of weeks in report: 27</p>	<p>Avg. Rating: 2.2 - 3.0</p>
<p>Highly Pathogenic Avian Influenza in Europe</p> <ul style="list-style-type: none"> Slovenia, Austria, Hungary, Moldova, France, and Slovakia have reported outbreaks of HPAI H5N1 in domestic poultry Slovenia, Hungary, England, Austria, Spain, France, Slovakia, and Italy have reported cases of HPAI H5N1 in wild birds North Macedonia has reported HPAI H5N1 in captive birds Norway has reported HPAI in wild birds A summary of the overall HPAI situation in Europe is available here 	<p>No. of Signals: 21</p>	<p>No. of weeks in report: 196</p>	<p>Avg. Rating: 2.0</p>
<p>Highly Pathogenic Avian Influenza in Asia</p> <ul style="list-style-type: none"> Israel has reported two outbreaks of HPAI H5N1 in domestic poultry South Korea has reported HPAI H5N1 in wild birds near Cheongmicheon 	<p>No. of Signals: 02</p>	<p>No. of weeks in report: 160</p>	<p>Avg. Rating: 2.0</p>

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

African Swine Fever

- ◆ Genotype II Live-Attenuated ASFV Vaccine Strains Unable to Completely Protect Pigs against the Emerging Recombinant ASFV Genotype I/II Strain in Vietnam [Read More](#)

Coronavirus

- ◆ Study on sentinel hosts for surveillance of future COVID-19-like outbreaks [Read More](#)

Influenza

- ◆ Pre-print: Pre-existing H1N1 immunity reduces severe disease with bovine H5N1 influenza virus [Read More](#)
- ◆ Pre-print: Immune History Modifies Disease Severity to HPAI H5N1 Clade 2.3.4.4b Viral Challenge [Read More](#)
- ◆ Survivability of H5N1 Avian Influenza Virus in Homemade Yogurt, Cheese and Whey [Read More](#)
- ◆ Hot topic: Avian influenza subtype H5N1 in US dairy-A preliminary dairy foods perspective [Read More](#)
- ◆ The Novel 2.3.4.4b H5N6 Highly Pathogenic Avian Influenza Viruses Isolated From Wild Birds in 2023 Posing a Potential Risk to Human Health [Read More](#)
- ◆ Out of the blue: Detection of a unique highly pathogenic avian influenza virus of subtype H7N5 in Germany [Read More](#)
- ◆ Molecular epidemiology of avian influenza viruses and avian coronaviruses in environmental samples from migratory bird inhabitants in Bangladesh [Read More](#)

Vectors and Vector borne Diseases

- ◆ Identification and characterization of two atypical strains of bluetongue virus in sheep, Tunisia [Read More](#)

Other

- ◆ Emerging Echinococcus tapeworms: fecal PCR detection of *Echinococcus multilocularis* in 26 dogs from the United States and Canada (2022-2024) [Read More](#)
- ◆ *Echinococcus granulosus* complex infection in wild boar hunters and auxiliary hunting dogs [Read More](#)
- ◆ Clinical and epidemiological investigation of human infection with zoonotic parasite *Trypanosoma dionisii* in China [Read More](#)
- ◆ *Brucella microti* and Rodent-Borne Brucellosis: A Neglected Public Health Threat [Read More](#)
- ◆ Understanding Viral Haemorrhagic Fevers: Virus Diversity, Vector Ecology, and Public Health Strategies [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 29/10/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 19-25 October 2024, week 43 [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.