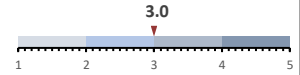


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

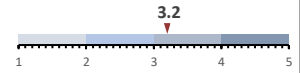
Mpox (clade I)

- ◆ The WHO has declared the mpox outbreak in the **Democratic Republic of Congo** a public health emergency of international concern, after >100 laboratory-confirmed cases of clade Ib have been reported in four countries neighbouring the DRC that have not reported mpox before: **Burundi, Kenya, Rwanda and Uganda**
- ◆ An individual in **Sweden** has been diagnosed with the first case of mpox (clade I) outside of **Africa**; the individual sought care at **Region Stockholm**, and was reported to have been infected during time spent in an African region where mpox clade I has broken out

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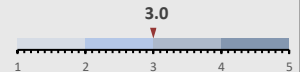
[Read More](#)



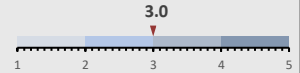
Highly Pathogenic Avian Influenza

- ◆ As of August 19, 2024, the USDA has reported influenza A H5N1 in a total of 192 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(31), and Colorado(64)**
 - Two new outbreaks were reported in the last week, one from **Colorado** and the other **Idaho**
- ◆ The **US** influenza A H5N1 outbreak in dairy cattle may be much larger than official figures suggest due to farmers' reluctance to test their animals and risk the economic consequences of a positive result

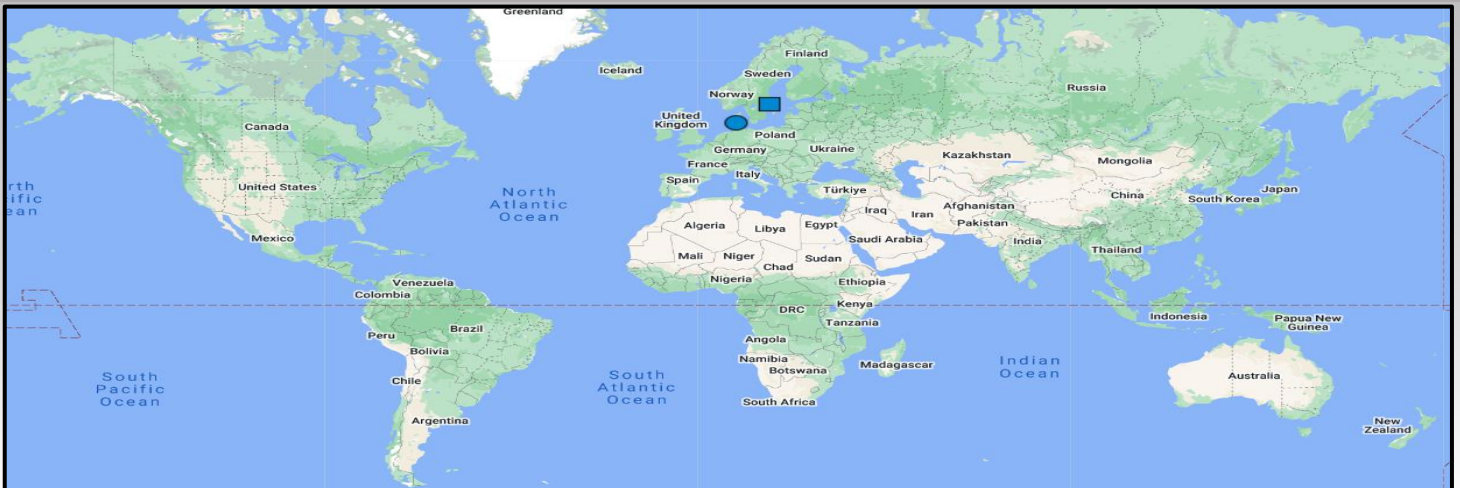
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NEW EVENTS: (events rated > 2)



Mpox clade I in Sweden

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

① Sweden has reported the first human case of mpox (clade I) outside of Africa, in a person who sought care at Region Stockholm and was reported to have been infected during time spent in an African region where mpox clade I has broken out. Approximately 300 cases of mpox have previously been identified in Sweden, all linked to the global outbreak of the clade IIb virus variant.

[Read More](#)

Avg. Rating	3.2
No. of Signal	1
No. of Ratings	6

Bluetongue virus serotype 3 in Denmark

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

① Denmark has reported its first outbreak of BTV-3, in a sheep flock in Tonder. On the 8th August 2024 a clinical suspicion was reported in one sheep out of 180 sheep, that had died showing symptoms consistent with bluetongue (lesions in the mouth and tongue, excessive salivation and a blue tongue) and one other sheep showing nonspecific symptoms of illness. The establishment also held 41 cattle, which have shown no symptoms so far. BTV-3 was confirmed on 9th August 2024. Since the initial confirmation, five additional outbreaks were reported throughout the country.

[Read More](#)

Avg. Rating	2.4
No. of Signal	2
No. of Ratings	4

CONTINUED EVENTS: (events rated ≥ 2.4)

Mpox Worldwide (Africa – DRC)

No. of Signals: 10

No. of weeks in report: 27

Avg. Rating: 2.0 - 3.0

- The WHO has declared the mpox outbreak in the Democratic Republic of Congo a [public health emergency of international concern](#), after >100 laboratory-confirmed cases of clade Ib have been reported in four countries neighbouring the DRC that have not reported mpox before: Burundi, Kenya, Rwanda and Uganda

Highly Pathogenic Avian Influenza in North America

No. of Signals: 08

No. of weeks in report: 129

Avg. Rating: 1.4 - 3.4

- [Canada](#) has not reported any outbreaks of HPAI in domestic poultry over the last week
- The [USDA](#) has not reported any outbreaks of HPAI in domestic poultry over the last week
- As of August 19, 2024, the [USDA](#) has reported influenza A H5N1 in a total of 192 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(31), and [Colorado](#)(64)
- The [US](#) influenza A H5N1 outbreak in dairy cattle may be much larger than official figures suggest due to farmers' reluctance to test their animals and risk the economic consequences of a positive result
- The [USDA](#) will continue its influenza A H5N1 testing in beef, from dairy cows sent to slaughter, for the rest of the year
- Additional [FDA testing](#) of retail dairy products included 167 samples such as cheese and butter from a broader geographic area found no live H5N1 virus in any of the samples, though 17% of the products contained traces of viral RNA
- Wastewater surveillance dashboards for influenza can be found at the [CDC](#) and Stanford University's [WastewaterSCAN](#)

Bluetongue virus in Europe

No. of Signals: 05

No. of weeks in report: 09

Avg. Rating: 2.0 - 2.6

- Since the initial reports of BTV-3 in [France](#) in late July 2023, the country has reported a total of 63 outbreaks of BTV-3 in both sheep and cattle, with the majority of outbreaks localized to north eastern France close to the Belgian border
- [Germany](#) has seen an explosion of cases of BTV this year, the country has registered 1,885 outbreaks of BTV-3 since the start of 2024
- [Spain](#) has reported 219 outbreaks of BTV (unspecified serotype, likely 4 or 8) in Catalonia

Oropouche in South America & Cuba

No. of Signals: 07

No. of weeks in report: 04

Avg. Rating: 2.0 - 2.5

- Brazil has reported [congenital anomalies](#) associated with the vertical transmission of Oropouche virus in a baby born in Acre; as well as a case of [encephalitis](#) caused by the Oropouche virus in an elderly man from Hugo Napoleão
- The CDC has issued a [Health Alert Network](#) advisory for travellers regarding Oropouche virus; travel related cases have recently been reported in a few European countries ([Spain, Italy, and Germany](#)), the USA ([Florida](#)), and the [Canary Islands](#)

Highly Pathogenic Avian Influenza in Europe

No. of Signals: 01

No. of weeks in report: 186

Avg. Rating: 2.2

- [France](#) has reported an outbreak of HPAI H5N1 in domestic poultry in Combourg in a farm that includes 500 animals (chickens, laying hens, ducks, guinea fowl and geese) in buildings and in the open air; this is the first case in domestic poultry in France for the 2024-2025 season
- A summary of the overall HPAI situation in Europe is available [here](#)

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

African Swine Fever

- ◆ Characterization of three African swine fever viruses from different clinical settings revealed a potential attenuation mechanism [Read More](#)

Influenza

- ◆ Influenza A(H5N1) Virus Infection in Two Dairy Farm Workers in Michigan [Read More](#)
- ◆ Avian and Human Influenza A Virus Receptors in Bovine Mammary Gland [Read More](#)
- ◆ Pre-print: Testing of retail cheese, butter, ice cream and other dairy products for highly pathogenic avian influenza in the US [Read More](#)
- ◆ Pre-print: Receptor Binding Specificity of a Bovine A(H5N1) Influenza Virus [Read More](#)
- ◆ FAO/WHO/WOAH - Updated joint FAO/WHO/WOAH assessment of recent influenza A(H5N1) virus events in animals and people [Read More](#)
- ◆ Viral shedding and environmental dispersion of two clade 2.3.4.4b H5 high pathogenicity avian influenza viruses in experimentally infected mule ducks: implications for environmental sampling [Read More](#)
- ◆ The panzootic spread of HPAI H5N1 sublineage 2.3.4.4b: a critical appraisal of One Health preparedness and prevention [Read More](#)
- ◆ Adaptation potential of H3N8 canine influenza virus in human respiratory cells [Read More](#)
- ◆ Reverse zoonosis of the 2022–2023 human seasonal H3N2 detected in swine [Read More](#)
- ◆ Diagnostic Detection of H7N3 Low Pathogenicity Avian Influenza in a Commercial Game Bird Flock [Read More](#)

Mpox

- ◆ PAHO - Epidemiological Alert Mpox (MPXV clade I) - 8 August 2024 [Read More](#)
- ◆ ECDC - Risk assessment for the EU/EEA of the mpox epidemic caused by monkeypox virus clade I in affected African countries [Read More](#)
- ◆ UKHSA – Guidance - Clade I mpox virus infection [Read More](#)
- ◆ Role of Direct Sexual Contact in Human Transmission of Monkeypox Virus, Italy [Read More](#)
- ◆ One Health Investigation into Mpox and Pets, United States [Read More](#)
- ◆ Pre-print: Clade I Mpox virus genomic diversity in the Democratic Republic of the Congo, 2018 - 2024 [Read More](#)

Vectors and Vector borne Diseases

- ◆ Molecular Epidemiology of Western Equine Encephalitis Virus, South America, 2023–2024 [Read More](#)
- ◆ Pathogen and Host Associations of Soft Ticks Collected in South Texas [Read More](#)
- ◆ Powassan Virus Encephalitis After Tick Bite, Manitoba, Canada [Read More](#)
- ◆ Autochthonous Human Babesiosis Caused by Babesia venatorum, the Netherlands [Read More](#)

Other

- ◆ Biodetection of an odor signature in white-tailed deer associated with infection by chronic wasting disease prions [Read More](#)
- ◆ Investigating the emergence of a zoonotic virus: phylogenetic analysis of European bat lyssavirus 1 in the UK [Read More](#)
- ◆ Case Report: A Sporadic Bovine Papular Stomatitis Virus Infection In Dairy Calves In South Taiwan [Read More](#)
- ◆ Decoding the RNA viromes in shrew lungs along the eastern coast of China [Read More](#)
- ◆ Thelazia callipaeda Eyeworms in American Black Bear, Pennsylvania, USA, 2023 [Read More](#)
- ◆ Zoonotic Mansonella ozzardi in Raccoons, Costa Rica, 2019–2022 [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 20/08/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 10 - 16 August 2024, week 33 [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.