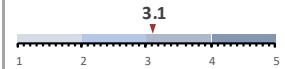


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

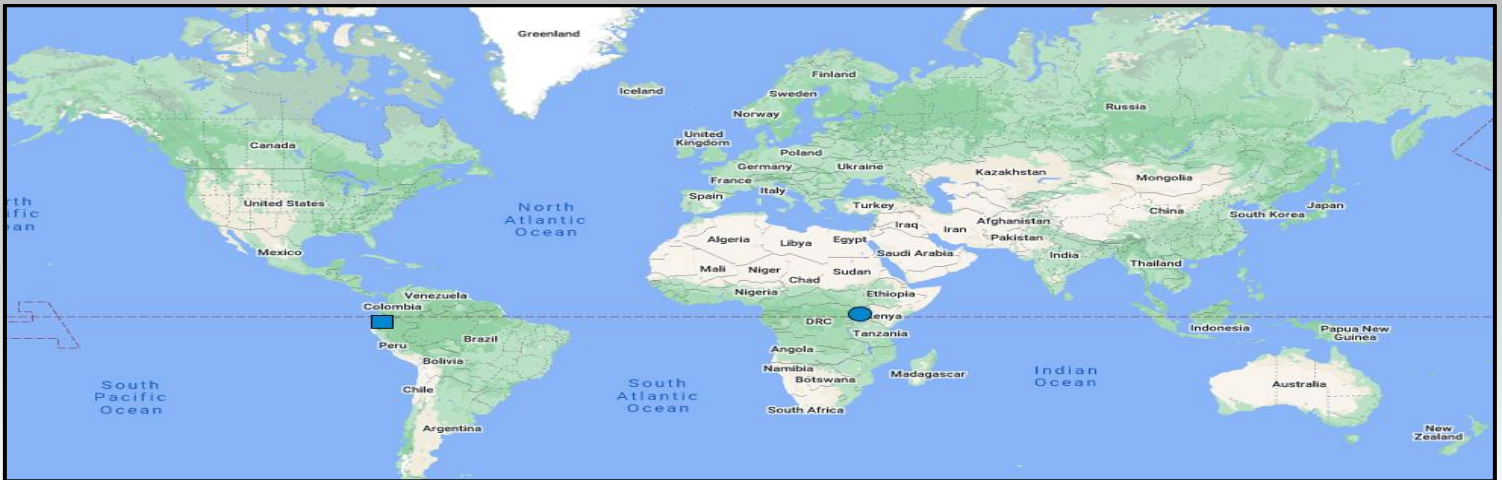
Highly Pathogenic Avian Influenza

- Over the last week, Canada has reported outbreaks of HPAI in commercial poultry in: **Alberta(4)**, **Saskatchewan(2)**, **Manitoba(3)**; in small flock poultry in: **Alberta(1)**; and in small flock non-poultry in: **British Columbia(1)** and **Ontario(3)**

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NEW EVENTS: (events rated > 2)



● Ebola virus in Uganda

Pathogen: Virus ; **Transmission:** Direct contact, fomite ; **Species affected in event:** Human

① Uganda has declared an outbreak of Sudan ebolavirus in Mubende District. As of September 25, there have been 34 cases reported (16 confirmed, 18 probable) and 21 deaths (4 confirmed, 17 probable), with the majority of the cases reported in Mubende, 3 in Kyegegwa and 1 in Kassanda. There have been no confirmed cases in Kampala yet.

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Avg. Rating	2.1 - 2.4
No. of Signal	10
No. of Ratings	5 - 7

■ Undiagnosed Disease in Swine in Ecuador

Pathogen: Unknown ; **Transmission:** Unknown ; **Species affected in event:** Swine

① An undiagnosed disease has affected swine in San Lorenzo, Ecuador. A total of 24 samples were sent to the laboratory and the presence of the Classical Swine Fever was ruled out. The affected locations were visited and sanitary work was carried out. Classical swine fever vaccination will continue, and a total of 42 farms with 596 animals will be immunized over next few days.

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Avg. Rating	2.3
No. of Signal	1
No. of Ratings	6

CONTINUED EVENTS: (events rated \geq 2.4)

- | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------|---------------------------------------------|
| <p><u>Highly Pathogenic Avian Influenza in North America</u></p> <ul style="list-style-type: none"> Over the last week, Canada has reported outbreaks of HPAI in commercial poultry in: Alberta(4), Saskatchewan(2), Manitoba(3); in small flock poultry in: Alberta(1); and in small flock non-poultry in: British Columbia(1) and Ontario(3) Over the last week, the USDA has reported outbreaks of HPAI H5N1 in commercial poultry in: South Dakota, Utah, Minnesota, Idaho, Colorado; as well as backyard poultry in: Michigan, Nebraska, Pennsylvania, California, South Dakota, North Dakota, Minnesota, Maryland, New Hampshire, Texas, Delaware | <p><u>No. of Signals: 15</u></p> | <p><u>No. of weeks in report: 37</u></p> | <p><u>Avg. Rating: 2.1 - 3.1</u></p> |
| <p><u>African Swine Fever in the Caribbean</u></p> <ul style="list-style-type: none"> In the Dominican Republic, in August, authorities confirmed 20 new outbreaks of ASF, bringing the total of accumulated confirmed cases to 1615 distributed in 31 provinces; their positive rate has decreased from November 2021 (from over 40% to 17%) The Dominican Republic has increased their capacity for ASF diagnosis (to ~6000 test weekly) and are using a partial depopulation strategy for control with active epidemiological surveillance | <p><u>No. of Signals: 01</u></p> | <p><u>No. of weeks in report: 17</u></p> | <p><u>Avg. Rating: 2.8</u></p> |
| <p><u>Highly Pathogenic Avian Influenza in Africa</u></p> <ul style="list-style-type: none"> South African authorities have confirmed four new HPAI infections and another seven suspected cases in a new outbreak of avian influenza at Cape Town's Boulders penguin colony | <p><u>No. of Signals: 02</u></p> | <p><u>No. of weeks in report: 32</u></p> | <p><u>Avg. Rating: 2.4 - 2.7</u></p> |
| <p><u>Bluetongue in the USA</u></p> <ul style="list-style-type: none"> The New York State Department has reported three deer in Southampton, Suffolk County, tested positive for the bluetongue virus; this is the first time the BT virus has been detected in New York deer | <p><u>No. of Signals: 02</u></p> | <p><u>No. of weeks in report: 4</u></p> | <p><u>Avg. Rating: 2.0 – 2.7</u></p> |
| <p><u>Influenza A (H1N2v) in the USA</u></p> <ul style="list-style-type: none"> The CDC has reported another human infection with novel influenza A H1N2 variant virus, this one from Georgia in a patient <18 years of age, who was not hospitalized, and has recovered from their illness A total of eight human infections with variant novel influenza A viruses have been reported in the United States in 2022, including three H3N2v (West Virginia) and five H1N2v (Georgia, Michigan, Ohio, Oregon, Wisconsin) viruses | <p><u>No. of Signals: 02</u></p> | <p><u>No. of weeks in report: 6</u></p> | <p><u>Avg. Rating: 2.3 – 2.4</u></p> |
| <p><u>Monkeypox worldwide</u></p> <ul style="list-style-type: none"> As of Sept 25 2022, the CDC is reporting 65,933 confirmed cases of monkeypox across 106 different countries Canada has reported 1,389 cases of monkeypox to date (2 in the Yukon, 158 cases in British Columbia, 39 in Alberta, 3 in Saskatchewan, 1 in Manitoba, 667 in Ontario, 517 in Quebec, 1 in Nova Scotia, and 1 in New Brunswick) Cases of monkeypox in healthcare workers have been reported from Europe and the USA European officials have reported a decrease in monkeypox cases in 20 countries | <p><u>No. of Signals: 07</u></p> | <p><u>No. of weeks in report: 20</u></p> | <p><u>Avg. Rating: 1.6 - 2.4</u></p> |
| <p><u>Highly Pathogenic Avian Influenza in Europe</u></p> <ul style="list-style-type: none"> The Netherlands, Russia, Germany, Belgium, and Poland have reported outbreaks of HPAI H5N1 in domestic poultry Wales, England, France, Spain, and Belgium have reported cases of HPAI H5N1 in wild birds A summary of the overall HPAI situation in Europe is available here | <p><u>No. of Signals: 11</u></p> | <p><u>No. of weeks in report: 93</u></p> | <p><u>Avg. Rating: 2.0</u></p> |
| <p><u>Highly Pathogenic Avian Influenza in Asia</u></p> <ul style="list-style-type: none"> The Philippines have reported an outbreak of HPAI H5N1 in domestic poultry in Soccsksargen | <p><u>No. of Signals: 01</u></p> | <p><u>No. of weeks in report: 72</u></p> | <p><u>Avg. Rating: 2.0</u></p> |

SCIENTIFIC FINDINGS & REPORTS:

African Swine Fever

- ◆ Implications of partial culling on African swine fever control effectiveness in Vietnam [Read More](#)

Coronavirus

- ◆ SARS-CoV-2 and Natural Infection in Animals [Read More](#)

Influenza

- ◆ Phylogenetic analysis and assessment of the pathogenic potential of the first H9N2 avian influenza viruses isolated from wild birds and Lagoon water in Tunisia [Read More](#)
- ◆ Genetic Evolution of Avian Influenza A (H9N2) Viruses Isolated from Domestic Poultry in Uganda Reveals Evidence of Mammalian Host Adaptation, Increased Virulence and Reduced Sensitivity to Baloxavir [Read More](#)
- ◆ The time is now: a call to contain H9N2 avian influenza viruses [Read More](#)
- ◆ Shortening Duration of Swine Exhibitions to Reduce Risk for Zoonotic Transmission of Influenza A Virus [Read More](#)
- ◆ Novel Zoonotic Avian Influenza A(H3N8) Virus in Chicken, Hong Kong, China [Read More](#)
- ◆ Highly Pathogenic Avian Influenza A (H5N1) Virus in Swans, Central China, 2021 [Read More](#)

Monkeypox

- ◆ A call for more evidence documenting human-to-dog transmission of monkeypox virus [Read More](#)
- ◆ Pre-print: Wastewater based epidemiology beyond SARS-CoV-2: Spanish wastewater reveals the current spread of Monkeypox virus [Read More](#)
- ◆ Monkeypox in Patient Immunized with ACAM2000 Smallpox Vaccine During 2022 Outbreak [Read More](#)

Other

- ◆ Whole-Genome Sequence of Cervid adenovirus A from the Initial Cases of an Adenovirus Hemorrhagic Disease Epizootic of Black-Tailed Deer in Canada [Read More](#)
- ◆ Preprint: Rodent trapping studies as an overlooked information source for understanding endemic and novel zoonotic spillover [Read More](#)
- ◆ Multilayer network analysis of FMD transmission and containment among beef cattle farms [Read More](#)
- ◆ Patterns of white-tailed deer movements in suburban Maryland: implications for zoonotic disease mitigation [Read More](#)
- ◆ First detection and complete genome analysis of porcine circovirus-like virus P1 and porcine circovirus-2 in yak in China [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.