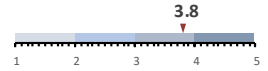


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

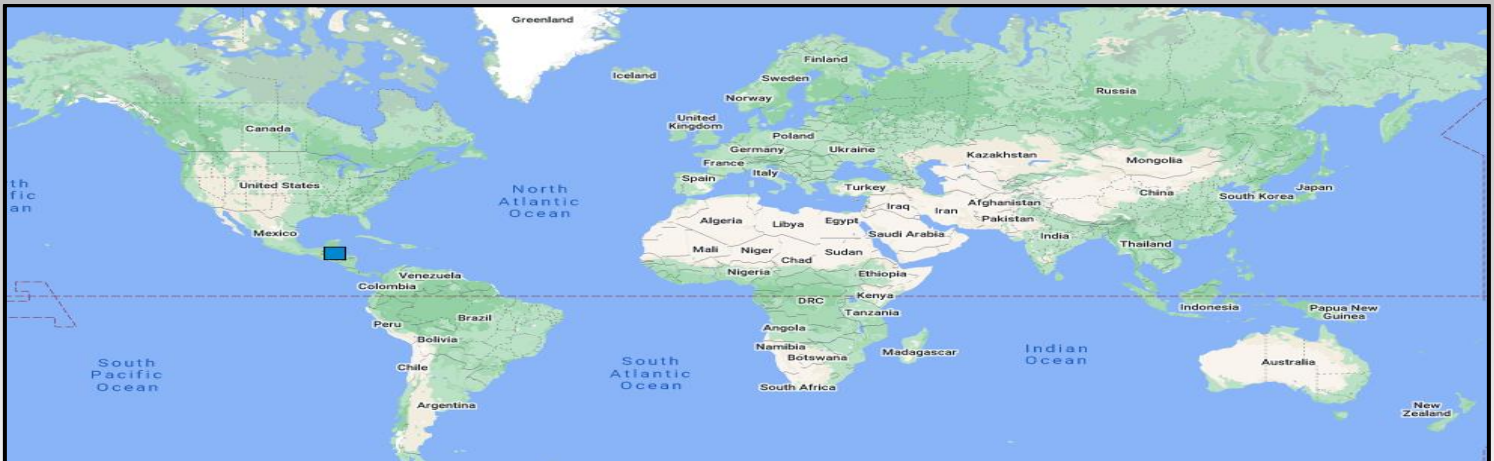
Highly Pathogenic Avian Influenza

- Over the last week, Canada has reported outbreaks of HPAI in commercial poultry in: **British Columbia(1), Alberta(6), Saskatchewan(1), Manitoba(3), Ontario(1)**; and in small non-poultry flocks in: **British Columbia(1) and Saskatchewan(1)**

[Read More](#)



NEW EVENTS: (events rated > 2)



Avian Influenza in Belize

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

① Belize has detected avian influenza H5 in a commercial poultry farm, with the pathogenicity and N-type yet to be determined. On Sept 9, 2022 the Belize Agricultural Health Authority received positive results for avian influenza from poultry samples from one farm in Blue Creek Community, Orange Walk District. Further testing identified the avian influenza to be of subtype H5, but the pathogenicity of the subtype is yet to be determined. Depopulation of the affected farm is being carried out immediately to prevent spread of the pathogen and with the aim of eradicating the disease. [Read More](#)

Avg. Rating	2.6
No. of Signal	1
No. of Ratings	5

CONTINUED EVENTS: (events rated ≥ 2.4)

<u>Highly Pathogenic Avian Influenza in North America</u>	<u>No. of Signals: 09</u>	<u>No. of weeks in report: 36</u>	<u>Avg. Rating: 2.0 - 3.8</u>
<ul style="list-style-type: none"> Over the last week, Canada has reported outbreaks of HPAI in commercial poultry in: British Columbia(1), Alberta(6), Saskatchewan(1), Manitoba(3), Ontario(1); and in small non-poultry flocks in: British Columbia(1) and Saskatchewan(1) In Alberta, HPAI investigations were launched on Sept. 12 at a farm in Willow Creek County and another near Drumheller, both yet to be confirmed; ~1,075,000 birds have been euthanized so far due to HPAI in Alberta Over the last week, the USDA has reported outbreaks of HPAI H5N1 in commercial poultry in Minnesota and Utah, as well as backyard poultry in Idaho, Michigan, Minnesota, Ohio 			
<u>West Nile Virus in Canada</u>	<u>No. of Signals: 01</u>	<u>No. of weeks in report: 07</u>	<u>Avg. Rating: 2.5</u>
<ul style="list-style-type: none"> In Ontario, the city of Hamilton has increased their risk assessment for human disease from moderate to high after confirming their first human case of the year 			
<u>Influenza A (H5N6 & H9N2) in China</u>	<u>No. of Signals: 02</u>	<u>No. of weeks in report: 34</u>	<u>Avg. Rating: 2.4 – 2.5</u>
<ul style="list-style-type: none"> China has reported an additional human case of influenza A (H5N6) in a 6-year-old girl living in Nanning, Guangxi, who had visited a live poultry market and had exposure to poultry from the market before onset; from 2014 to date, 80 human cases of avian influenza A(H5N6) have been reported China has also reported a retrospective case of influenza A (H9N2) in 1-year-old boy in Guangdong province, with the onset of disease reported to be 1 August 2022 			
<u>Influenza A (H1N2v) in the USA</u>	<u>No. of Signals: 02</u>	<u>No. of weeks in report: 5</u>	<u>Avg. Rating: 2.2 – 2.5</u>
<ul style="list-style-type: none"> The CDC has reported two human infections with novel influenza A H1N2 variant virus during week 36, one in Michigan and the other in Wisconsin; a total of seven human infections with variant novel influenza A viruses have been reported in the US in 2022, including three H3N2v (West Virginia) and four H1N2v (Michigan, Ohio, Oregon, Wisconsin) 			
<u>Monkeypox worldwide</u>	<u>No. of Signals: 08</u>	<u>No. of weeks in report: 19</u>	<u>Avg. Rating: 1.6 - 2.5</u>
<ul style="list-style-type: none"> As of Sept 19 2022, the CDC is reporting 62,406 confirmed cases of monkeypox across 104 different countries Canada has reported 1,363 cases of monkeypox to date (2 in the Yukon, 150 cases in British Columbia, 34 in Alberta, 3 in Saskatchewan, 1 in Manitoba, 656 in Ontario, 515 in Quebec, 1 in Nova Scotia, and 1 in New Brunswick) China and Ukraine have both reported their first cases of monkeypox In the US, New Hampshire has reported its first pediatric case of monkeypox; the child became infected after an identified exposure to a household contact diagnosed with monkeypox 			
<u>Rabbit Hemorrhagic Disease Virus in the USA</u>	<u>No. of Signals: 02</u>	<u>No. of weeks in report: 13</u>	<u>Avg. Rating: 2.3 - 2.4</u>
<ul style="list-style-type: none"> South Carolina has detected RHDV-2 after a herd of feral bunnies suddenly died at a homestead in Greenville County, this is the first time the virus has been detected in the state Connecticut has confirmed RHDV-2 at a private home in Hartford County, where 14 rabbits died 			
<u>Highly Pathogenic Avian Influenza in Europe</u>	<u>No. of Signals: 04</u>	<u>No. of weeks in report: 92</u>	<u>Avg. Rating: 2.0 - 2.3</u>
<ul style="list-style-type: none"> Russia and Spain have reported outbreaks of HPAI H5N1 in domestic poultry France has reported a die-off of northern gannets due to HPAI on the island of Rouzic, in western France Spain has reported cases of HPAI H5N1 in wild birds A summary of the overall HPAI situation in Europe is available here 			
<u>Highly Pathogenic Avian Influenza in Asia</u>	<u>No. of Signals: 01</u>	<u>No. of weeks in report: 71</u>	<u>Avg. Rating: 2.0</u>
<ul style="list-style-type: none"> The Philippines have reported an outbreak of HPAI H5N1 in domestic poultry in Central Luzon 			

SCIENTIFIC FINDINGS & REPORTS:

African Swine Fever

- ◆ Pre-print: African swine fever virus – variants on the rise [Read More](#)

Coronavirus

- ◆ Seasonal shedding of coronavirus by straw-colored fruit bats at urban roosts in Africa [Read More](#)

Influenza

- ◆ Influenza A (H6N6) viruses isolated from chickens replicate in mice and human lungs without prior adaptation [Read More](#)
- ◆ Clinical features of the first critical case of acute encephalitis caused by avian influenza A (H5N6) virus [Read More](#)
- ◆ Genetic characterization of a novel quadruple reassortant influenza A (H1N2) virus from swine, China, 2021 [Read More](#)
- ◆ Human infection of avian influenza A H3N8 virus and the viral origins: a descriptive study [Read More](#)

Monkeypox

- ◆ Monkeypox Virus Transmission to Healthcare Worker through Needlestick Injury, Brazil [Read More](#)
- ◆ Monkeypox infection in pregnancy: a systematic review and meta-analysis [Read More](#)

Vector and Vector borne Diseases

- ◆ Japanese Encephalitis in Australia — A Sentinel Case [Read More](#)
- ◆ Australia - Summary of NSW Japanese encephalitis virus serosurvey results [Read More](#)

Other

- ◆ Genomic characterization and phylogenetic analysis of a novel Nairobi sheep disease genogroup Orthonairovirus from ticks, Southeastern 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.