

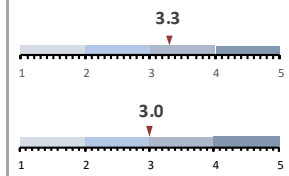
SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

Highly Pathogenic Avian Influenza

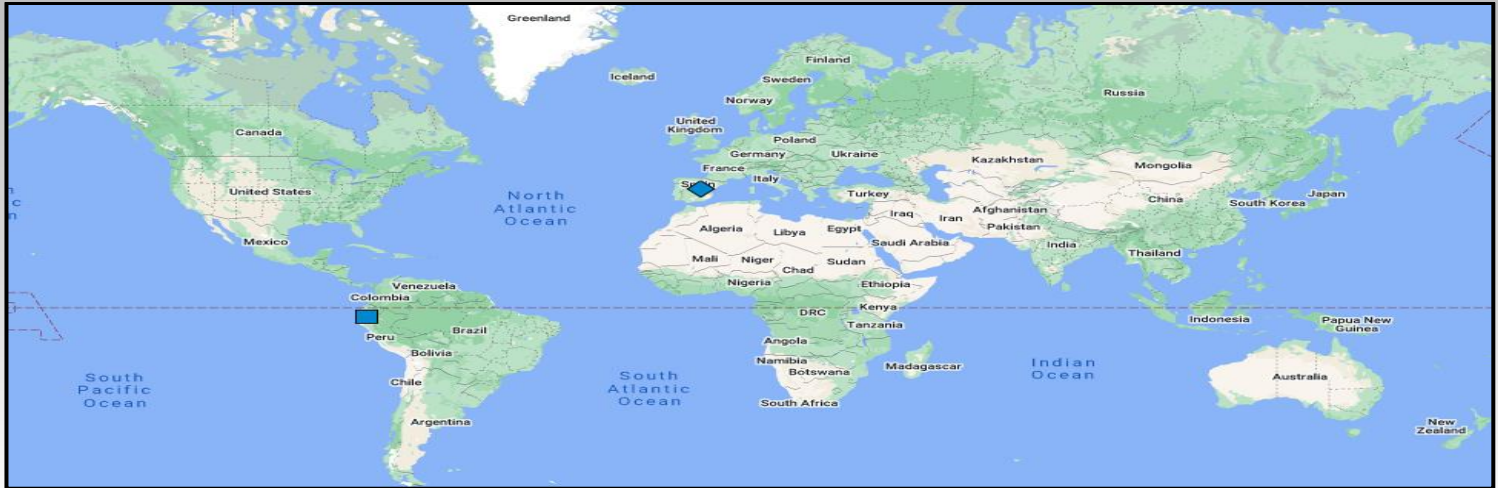
- Over the last week, **Canada** has reported outbreaks of HPAI H5N1 in commercial poultry in: **British Columbia(21)** and **Ontario(2)**; and in non-commercial poultry in: **Alberta(1)**
- Ecuador** has reported its first outbreak of HPAI H5 in domestic poultry, in a layer farm in **Chaguana** with 180,100 chickens of which 49,900 had died

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NEW EVENTS: (events rated > 2)



Highly Pathogenic Avian Influenza H5 in Ecuador

Pathogen: Virus ; **Transmission:** Direct contact, aerosol, fomite; **Species affected in event:** Poultry - layers

① Ecuador has reported its first-ever outbreak of HPAI H5 in domestic poultry. The WOA report indicates the outbreak occurred at an egg laying farm in Chaguana with 180,100 chickens of which 49,900 (~28%) had died. Testing was done at Agrocalidad's Animal Diagnostic Department Laboratory, and those tests came back positive with a confirmation date of November 25. The exact serotype of the virus found has not yet been determined, but it is known that it is an H5 variant.

[Read More](#)

Avg. Rating	3.0
No. of Signal	1
No. of Ratings	2

Epizootic Hemorrhagic Disease in Spain

Pathogen: Virus ; **Transmission:** Vector-borne ; **Species affected in event:** Cattle

① On November 21, Spain reported EHD for the first time in cattle in Andalusia. Two separate farms had reported cases, each with 6 affected animals. Italy has also recently reported its first outbreaks of EHD (late October/early November) in Sicily and Sardinia.

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Avg. Rating	2.2
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: 05</u> | <u>No. of weeks in report: 46</u> | <u>Avg. Rating: 2.1 - 3.3</u> |
| <ul style="list-style-type: none"> Over the last week, Canada has reported outbreaks of HPAI H5N1 in commercial poultry in: British Columbia(21) and Ontario(2); and in non-commercial poultry in: Alberta(1) Over the last week, the USDA has reported outbreaks of HPAI H5N1 in commercial poultry in: South Dakota, Minnesota, and Nebraska; and in backyard poultry in: Maine, Missouri, South Dakota, Oregon, Florida, and Alaska A black bear cub in south east Alaska was euthanized after it became ill with AI, likely after eating birds that died from AI; AI was first detected in an adult female black bear in Canada in June 2022 | | | |
| <u>Highly Pathogenic Avian Influenza in South America</u> | <u>No. of Signals: 02</u> | <u>No. of weeks in report: 03</u> | <u>Avg. Rating: 2.3 - 2.7</u> |
| <ul style="list-style-type: none"> In Peru, there have been media reports of an additional ~3000-5000 pelican deaths from the beaches and natural areas of Piura (bordering Ecuador), Lambayeque, and Lima; SENASA has declared a health alert for a period of 180 calendar days and advised the public to avoid contact with seabirds/dead birds | | | |
| <u>Highly Pathogenic Avian Influenza in Asia</u> | <u>No. of Signals: 08</u> | <u>No. of weeks in report: 79</u> | <u>Avg. Rating: 2.0 - 2.3</u> |
| <ul style="list-style-type: none"> Israel has reported its first outbreak of HPAI H5N1 this winter in a commercial turkey farm in Kibbutz Shluhot Taiwan and South Korea have reported outbreaks of HPAI H5N1 in domestic poultry Taiwan, Japan, and Hong Kong(suspected) have reported HPAI in wild birds | | | |
| <u>Highly Pathogenic Avian Influenza in Europe</u> | <u>No. of Signals: 09</u> | <u>No. of weeks in report: 102</u> | <u>Avg. Rating: 2.0</u> |
| <ul style="list-style-type: none"> Hungary, Ireland, Germany, and Belgium have reported outbreaks of HPAI H5N1 in domestic poultry Spain, Slovenia, Portugal, Russia, Switzerland, and Romania have reported HPAI H5N1 in wild birds A summary of the overall HPAI situation in Europe is available here | | | |

SCIENTIFIC FINDINGS & REPORTS:

Influenza

- ◆ Aerosol exposure of live bird market workers to viable influenza A/H5N1 and A/H9N2 viruses, Cambodia [Read More](#)
- ◆ Pre-print: Avian influenza (H5N1) virus, epidemiology and its effects on backyard poultry in Indonesia: a review [Read More](#)

Monkeypox

- ◆ Human monkeypox virus infection in women and non-binary individuals during the 2022 outbreaks: a global case series [Read More](#)

SARS-CoV-2

- ◆ Pre-print: SARS-CoV-2 exposure in Norwegian rats (*Rattus norvegicus*) from New York City [Read More](#)

Vectors & Vector-borne Diseases

- ◆ Emerging Tick-Borne Pathogens in Central Canada: Recent Detections of *Babesia odocoilei* and *Rickettsia rickettsii* [Read More](#)
- ◆ Distribution of *Theileria orientalis* in Virginia Market Cattle, 2018-2020 [Read More](#)
- ◆ Virome analysis of ticks and tick-borne viruses in Heilongjiang and Jilin Provinces, China [Read More](#)

Other

- ◆ Kiwira Virus, a Newfound Hantavirus Discovered in Free-tailed Bats (Molossidae) in East and Central Africa [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.