

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

Highly Pathogenic Avian Influenza

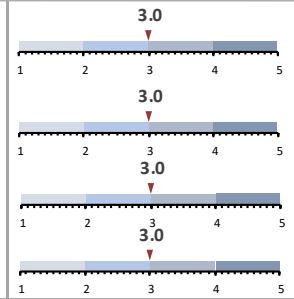
- Over the last week, **Canada** has reported outbreaks of HPAI H5N1 in commercial poultry in: **British Columbia**(5) and **Ontario**(2)
- HPAI is suspected as the cause of death and illness in Canada geese and mallard ducks found along and near the **South Saskatchewan River** in **Alberta**
- Alaska** has reported HPAI H5N1 in a second bear, this time in a brown bear cub on **Kodiak Island**
- The CFIA has confirmed HPAI H5N1 in the white-sided dolphin found dead stranded on September 5 on a beach near **Rimouski, Quebec**

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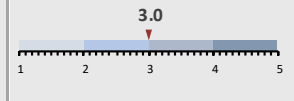
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Chronic Wasting Disease

- Two cases of CWD have been detected in male mule deer in **Manitoba**; they were identified as a result of mandatory biological sampling submissions of animals harvested near the communities of **Dropmore** and **Coulter** where CWD was previously detected

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NEW EVENTS: (events rated > 2)



Cryptosporidiosis in Michigan

Pathogen: Parasite; **Transmission:** Direct contact, fecal-oral, ingestion; **Species affected in event:** Human, cattle

① The Michigan Department of Health and Human Services and local health departments are investigating an outbreak of cryptosporidiosis in residents across three counties: Livingston, Ingham, and Oakland. The illnesses are believed to have been caused by a *Cryptosporidium* and occurred after people came into contact with a group of sick calves. To date, a total of 12 people between the ages of 19 and 56 (one confirmed, 4 probable and 7 suspect cases) became sick with diarrhea and other symptoms between November 15-21, 2022.

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Avg. Rating	1.9 - 2.1
No. of Signal	2
No. of Ratings	8 - 9

CONTINUED EVENTS: (events rated ≥ 2.4)

- | | | | |
|---|----------------------------------|---|--------------------------------------|
| <u>Chronic Wasting Disease in Canada</u> | <u>No. of Signals: 01</u> | <u>No. of weeks in report: 06</u> | <u>Avg. Rating: 3.0</u> |
| <ul style="list-style-type: none"> Two cases of CWD have been detected in male mule deer in Manitoba; they were identified as a result of mandatory biological sampling submissions of animals harvested near the communities of Dropmore and Coulter where CWD was previously detected | | | |
| <u>Highly Pathogenic Avian Influenza in North America</u> | <u>No. of Signals: 17</u> | <u>No. of weeks in report: 49</u> | <u>Avg. Rating: 2.0 - 3.0</u> |
| <ul style="list-style-type: none"> Over the last week, Canada has reported outbreaks of HPAI H5N1 in commercial poultry in: British Columbia(5) and Ontario(2) HPAI is suspected as the cause of death and illness in Canada geese and mallard ducks found along and near the South Saskatchewan River in Alberta The CFIA has confirmed HPAI H5N1 in the white-sided dolphin found dead stranded on September 5 on a beach near Rimouski, Quebec Over the last week, the USDA has reported outbreaks of HPAI H5N1 in commercial poultry in: South Dakota, Iowa, Minnesota, Indiana, Washington, and Colorado; in WOAHP poultry in: Tennessee, South Dakota, and Nebraska; and in WOAHP non-poultry in: California, Montana, Oregon, and Minnesota Alaska has reported HPAI H5N1 in a brown bear cub on Kodiak Island, this is the first report of the virus infecting this species; the previous bear case reported in Alaska was in a black bear cub in Glacier Bay National Park Mexico has reported an additional outbreak of HPAI H5N1 in commercial poultry in Sonora | | | |
| <u>Highly Pathogenic Avian Influenza in South America</u> | <u>No. of Signals: 06</u> | <u>No. of weeks in report: 06</u> | <u>Avg. Rating: 2.0 - 2.7</u> |
| <ul style="list-style-type: none"> Ecuador has reported a new case of HPAI in the province of Cotopaxi, in the same area where the first case of the virus was detected Chile has reported additional cases of HPAI H5N1 in two pelicans, one in the coastal region of Iquique and another in coastal Antofagasta Colombia has reported 22 cases of HPAI H5N1 since October 19; the outbreaks have been identified in backyard birds that had contact with wild birds traveling along migratory routes to the south of the continent | | | |
| <u>Porcine Reproductive and Respiratory Syndrome in the USA</u> | <u>No. of Signals: 01</u> | <u>No. of weeks in report: 13</u> | <u>Avg. Rating: 2.4</u> |
| <ul style="list-style-type: none"> SHIC reported an increase in incidence of PRRS detection (across all age groups), propelled by the highest number of PRRS 1-4-4 L1C variant detections since its emergence in 2020, with highest numbers detected in Iowa, Minnesota, and Missouri | | | |
| <u>Highly Pathogenic Avian Influenza in Europe</u> | <u>No. of Signals: 17</u> | <u>No. of weeks in report: 105</u> | <u>Avg. Rating: 2.0 - 2.1</u> |
| <ul style="list-style-type: none"> France, Germany, Poland, Russia, and Hungary have reported outbreaks of HPAI H5N1 in domestic poultry Poland and the UK have reported HPAI in captive birds Belgium, Poland, France, Switzerland, Romania, and Cyprus have reported 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: 08</u> | <u>No. of weeks in report: 82</u> | <u>Avg. Rating: 2.0</u> |
| <ul style="list-style-type: none"> Israel has reported two outbreaks of HPAI H5N1 in Central Israel; one in a turkey flock in Beit Halevi and the other one in a broiler farm in Kfar Monesh South Korea, India, and Japan have reported outbreaks of HPAI H5N1 in domestic poultry Hong Kong has reported HPAI H5N1 in a black-faced spoonbill | | | |
| <u>Highly Pathogenic Avian Influenza in Africa</u> | <u>No. of Signals: 03</u> | <u>No. of weeks in report: 37</u> | <u>Avg. Rating: 2.0</u> |
| <ul style="list-style-type: none"> Algeria has reported an outbreak of HPAI H5N1 in domestic poultry | | | |

SCIENTIFIC FINDINGS & REPORTS:

Mpox

- ◆ Myocarditis in monkeypox-infected patients: a case series [Read More](#)

Vectors & Vector-borne Diseases

- ◆ Impacts of Canada's changing climate on West Nile Virus vectors [Read More](#)

Other

- ◆ Melioidosis in a Cynomolgus Macaque (*Macaca fascicularis*) Imported to the United States from Cambodia [Read More](#)
- ◆ The Qatar FIFA World Cup 2022 and camel pageant championships increase risk of MERS-CoV transmission and global spread [Read More](#)
- ◆ A novel genotype of avian hepatitis E virus identified in chickens and common pheasants (*Phasianus colchicus*), extending its host range [Read More](#)
- ◆ Does the PRRS virus have the ability to percolate through our soils? [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.