

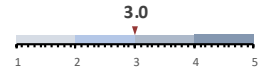
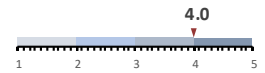
SUMMARY: RELEVANT EVENTS (includes all events rated ≥ 3.0)

Highly Pathogenic Avian Influenza

- Over the last week, **Canada** has reported six outbreaks of HPAI H5N1 in **Alberta**, an additional five in **Ontario**, and has confirmed HPAI H5 in a snow goose found near Elrose, **Saskatchewan**
- Over the last week, the USDA has reported outbreaks of HPAI in commercial poultry (**Minnesota, North Dakota, South Dakota, Indiana, North Carolina, Missouri, Iowa**), in backyard birds (**Montana, Colorado, North Dakota, Wyoming, Nebraska, New York, Wisconsin, Maine**), and wild birds (**Maine, Colorado, North Dakota, Minnesota**)

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Japanese Encephalitis

- As of March 29, more than 50 pig farms across east and south **Australia** have been diagnosed with JEV; the virus has now also been detected in a small number of feral pigs in the **Northern Territory**

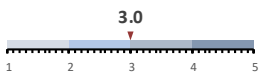
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Porcine Epidemic Diarrhea

- As of March 30, **Manitoba** has confirmed 88 cases of PED since late October last year, making it **Manitoba's** largest PED outbreak to date

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NEW EVENTS: (events rated > 2)

No new events to report this week

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America

No. of Signals: 09

No. of weeks in report: 14

Avg. Rating: 2.7 – 4.0

- Over the last week, [Canada](#) has reported six outbreaks of HPAI H5N1 in Alberta, an additional five in Ontario, and has confirmed HPAI H5 in a snow goose found near Elrose, [Saskatchewan](#)
- Over the last week, the [USDA](#) has reported outbreaks of HPAI in commercial poultry (Minnesota, North Dakota, South Dakota, Indiana, North Carolina, Missouri, Iowa), in backyard birds (Montana, Colorado, North Dakota, Wyoming, Nebraska, New York, Wisconsin, Maine), and wild birds (Maine, Colorado, North Dakota, Minnesota)

Porcine Epidemic Diarrhea in Canada

No. of Signals: 01

No. of weeks in report: 08

Avg. Rating: 3.0

- Since October 2021, [Manitoba](#) has confirmed 88 cases of PED (15 of them in March 2022), making it Manitoba's largest PED outbreak to date

Japanese Encephalitis in Australia

No. of Signals: 07

No. of weeks in report: 05

Avg. Rating: 2.0 – 3.0

- In Australia, there have been [35 human cases](#) (24 confirmed, 11 suspected) of JEV and 3 deaths; as of March 29, more than [50 pig farms across](#) east and south Australia have been diagnosed with JEV; the virus has now also been detected in a small number of [feral pigs](#) in the Northern Territory

Bovine Tuberculosis in Hawaii

No. of Signals: 02

No. of weeks in report: 02

Avg. Rating: 2.5 – 2.8

- A severe outbreak of bTB in [Hawaii](#) currently includes six infected herds including pigs, sheep and cattle that were found between June 2021 and March 2022 in Central and West Molokai

Influenza A (H5N6) in China

No. of Signals: 03

No. of weeks in report: 28

Avg. Rating: 2.3 – 2.7

- China has reported two additional human cases of avian influenza A(H5N6), in a 28-year-old male from [Henan Province](#) and a 53-year-old female in [Jiangsu Province](#), both had exposure to live poultry; from 2014 to date, 76 human cases of influenza A(H5N6) have been reported by Mainland health authorities

Highly Pathogenic Avian Influenza in Europe

No. of Signals: 07

No. of weeks in report: 69

Avg. Rating: 2.0 – 2.7

- [France](#), [England](#), and [Belgium](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [Hungary](#), [Scotland](#), the [Netherlands](#), and [Montenegro](#) have reported cases of HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

COVID-19 Worldwide (as of April 11, 2022)

No. of Signals: 06

No. of weeks in report: 64

Avg. Rating: 1.0 – 2.7

- [Worldwide](#), there have been 497,057,239 confirmed cases of COVID-19 with 6,179,104 deaths reported
- In [Canada](#), there have been 3,579,730 cases of COVID-19 with 38,044 deaths reported
- [New Brunswick](#) has reported finding SARS-CoV-2 in a free-ranging white-tailed deer in the Saint John region, sampled Jan 2022

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 04

No. of weeks in report: 56

Avg. Rating: 2.0 – 2.3

- [Japan](#) has reported HPAI for the first time in a dead fox as well as crows found in the Hokkaido region; the fox is believed to have been infected by eating the dead crows
- The [Philippines](#) have reported HPAI H5N1 in Barangay San Isidro

SCIENTIFIC FINDINGS & REPORTS:

SARS-CoV-2

- ◆ SARS-CoV-2 infection in free roaming dogs from the Amazonian jungle [Read More](#)
- ◆ The Finding of the Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV-2) in a Wild Eurasian River Otter (*Lutra lutra*) Highlights the Need for Viral Surveillance in Wild Mustelids [Read More](#)

Avian Influenza

- ◆ ECDC - Avian influenza overview December 2021–March 2022 [Read More](#)

Porcine Circovirus

- ◆ Porcine Circovirus Type 4 Strains Circulating in China Are Relatively Stable and Have Higher Homology with Mink Circovirus than Other Porcine Circovirus Types [Read More](#)

Porcine Epidemic Diarrhea

- ◆ Transplacental Transmission of Porcine Epidemic Diarrhea Virus [Read More](#)

Vectors & Vector borne disease

- ◆ Testing a multi-factorial model of the role of *Rhipicephalus sanguineus* in the spread of Rocky Mountain Spotted Fever in the Arizona region [Read More](#)
- ◆ Exposure to *Trypanosoma* parasites induces changes in the microbiome of the Chagas disease vector *Rhodnius prolixus* [Read More](#)

Swine Health Information Center Reports – Various swine diseases

- ◆ Swine Disease Global Surveillance Report – April 2022 [Read More](#)
- ◆ Swine Disease USA Domestic Surveillance Report – April 2022 [Read More](#)

Other

- ◆ Going Viral – Myanmar's Wildlife Trade Escalates Online [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.