

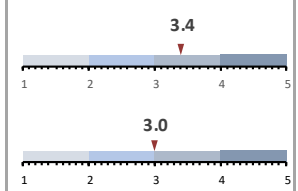
SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

Highly Pathogenic Avian Influenza

- As of March 2, 2023, **Peru** has recorded the death of 3,487 sea lions in seven natural protected areas of the coast (~3.29% of the sea lion population that inhabits the entire country) as well as the death of five fur seals
- Over the last week, **Canada** reported an outbreak of HPAI in a non-commercial poultry premises in **Nova Scotia**

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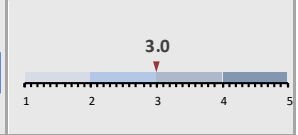
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Influenza A H5N1

- China** has reported a human case of influenza A H5N1 virus in a 53-year-old woman from **Jiangsu** province who developed symptoms on January 31, 2023 after exposure to poultry; genetic sequencing carried out in China has shown that the new case was caused by clade 2.3.4.4b

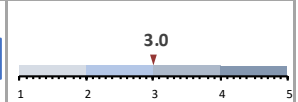
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African Swine Fever

- In **Germany**, an eighth farm has been found infected with ASF; the **Brandenburg** farm has 11 pigs on site, and all animals on the farm have been culled

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NEW EVENTS: (events rated > 2)

No new events reported this week

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in South America

No. of Signals: 11

No. of weeks in report: 16

Avg. Rating: 2.0 - 3.4

- As of March 2, 2023, **Peru** has recorded the death of 3,487 sea lions in seven natural protected areas of the coast (~3.29% of the sea lion population that inhabits the entire country) as well as the death of five fur seals
- Argentina** has reported its first cases of HPAI H5N1 in domestic poultry and additional cases in backyard birds
- Chile** has reported a second case of HPAI H5N1 in a sea lion, also found in Antofagasta

Influenza A (H5N1, H5N6, H9N2) in China

No. of Signals: 05

No. of weeks in report: 41

Avg. Rating: 2.6 - 3.0

- China** has reported a human case of influenza A H5N1 virus in a 53-year-old woman from Jiangsu province who developed symptoms on January 31, 2023 after exposure to poultry; genetic sequencing carried out in China has shown that the new case was caused by clade 2.3.4.4b
- China** has reported a human case of influenza A H5N6 virus in a 49-year-old man living in Guangdong province, who had exposure live domestic poultry prior to the onset of symptoms; from 2014 to date, 83 human cases of avian influenza A(H5N6) have been reported by Mainland health authorities
- China** has also reported two cases of influenza A H9N2 virus; one in a 6-year-old girl from Sichuan province with onset on October 23, 2022, and the other in a 9-month-old girl from Hunan province with onset on November 15, 2022

Highly Pathogenic Avian Influenza in North America

No. of Signals: 06

No. of weeks in report: 59

Avg. Rating: 2.0 - 3.0

- Over the last week, **Canada** reported an outbreak of HPAI in a non-commercial poultry premises in Nova Scotia
- Over the last week, the **USDA** has reported outbreaks of HPAI H5N1 in commercial poultry in: Pennsylvania; in WOAHP poultry in: Pennsylvania and Nevada; and in Live Bird Sales/Non-Slaughter in: Florida
- On February 24, 2023, **Pennsylvania's** 12 live bird markets were ordered to sell off or process their birds within 72 hours to prevent the spread of HPAI
- Mexico** has quarantined three broiler farms in Aguascalientes due to HPAI H5N1

African Swine Fever in Europe

No. of Signals: 10

No. of weeks in report: 142

Avg. Rating: 2.0 - 3.0

- In **Germany**, an eighth farm has been found infected with ASF; the farm in Brandenburg has 11 pigs on site and all animals on the farm have been culled
- Ukraine** and **Moldova** have reported cases of ASF in domestic swine
- Macedonia**, **Russia**, **Poland**, and **Latvia** have reported cases of ASF in wild boar

Influenza A (H5N1) in Cambodia

No. of Signals: 08

No. of weeks in report: 02

Avg. Rating: 2.0 - 2.8

- The CDC has provided an [update](#) on the cases of IAV H5N1 in Cambodia indicating that there is still no indication of person-to-person spread associated with these two cases; investigation and containment efforts continue

Bovine Spongiform Encephalopathy in Brazil

No. of Signals: 02

No. of weeks in report: 02

Avg. Rating: 2.0 - 2.7

- The BSE case reported from **Brazil** last week in a nine-year-old bull from Para state has been confirmed as atypical

Rabies in Canada

No. of Signals: 01

No. of weeks in report: 05

Avg. Rating: 2.6

- In the **North West Territories**, a Fort Good Hope dog, having had contact with a wild fox, has tested positive for rabies

Chronic Wasting Disease in the US

No. of Signals: 02

No. of weeks in report: 23

Avg. Rating: 2.3 - 2.4

- Missouri** has reported three cases of CWD in Sullivan County after sampling deer harvested during the Fall 2022 season
- Idaho** has reported that out of the 163 test results so far, 19 white-tailed deer tested positive for CWD, which suggests about 12% of the deer in the area are infected with the disease

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in Europe

No. of Signals: 03

No. of weeks in report: 115

Avg. Rating: 2.0 - 2.4

- [France](#) has reported that an elderly and sick bear, who died on October 31, 2022, at the African Reserve in Sigean, was infected with avian influenza; sequencing of the virus is underway
- [Slovenia](#) and [Estonia](#) have reported HPAI H5N1 in poultry
- [Sweden](#) has reported HPAI H5N5 in a barnacle goose
- A summary of the overall HPAI situation in Europe is available [here](#)

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 04

No. of weeks in report: 92

Avg. Rating: 2.0 - 2.3

- [Indonesia](#) has reported HPAI H5N1 2.3.4.4b outbreaks in several districts/cities in South Kalimantan
- [Taiwan](#) has reported HPAI H5N1 in backyard poultry in Yunlin County
- [Nepal](#) has reported HPAI H5N1 in house crows

SCIENTIFIC FINDINGS & REPORTS:

Coronavirus

- ◆ First molecular detection of SARS-CoV-2 virus in cockroaches [Read More](#)
- ◆ ECDC - SARS-CoV-2 in animals: susceptibility of animal species, risk for animal and public health, monitoring, prevention and control [Read More](#)
- ◆ Coronaviruses Are Abundant and Genetically Diverse in West and Central African Bats, including Viruses Closely Related to Human Coronaviruses [Read More](#)

Influenza

- ◆ Pre-print: Highly pathogenic avian influenza A(H5N1) in marine mammals and seabirds in Peru [Read More](#)
- ◆ Letter to the Editor: Knowledge gap in assessing the risk of a human pandemic via mammals' infection with highly pathogenic avian influenza A(H5N1) [Read More](#)
- ◆ Whole-genome sequence and genesis of an avian influenza virus H5N1 isolated from a healthy chicken in a live bird market in Indonesia: accumulation of mammalian adaptation markers in avian hosts [Read More](#)
- ◆ A cross-sectional study of avian influenza A virus in Myanmar live bird markets: Detection of a newly introduced H9N2? [Read More](#)
- ◆ Denmark SSI - Low to moderate risk of infection with bird flu from mink to humans [Read More](#)

Mpox

- ◆ WHO - Multi-country outbreak of mpox, External Situation report #17 - 2 March 2023 [Read More](#)

Vectors and Vector Borne Diseases

- ◆ Fatal Case of Heartland Virus Disease Acquired in the Mid-Atlantic Region, United States [Read More](#)
- ◆ Deer ticks are benefiting from warming winters in the Northeast - That's raising health concerns [Read More](#)

Other

- ◆ The first three reported cases of *Sporothrix brasiliensis* cat-transmitted sporotrichosis outside South America [Read More](#)
- ◆ Isolation and identification of two novel pseudorabies viruses with natural recombination or TK gene deletion in China [Read More](#)
- ◆ A one-health review on brucellosis in the United States [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.