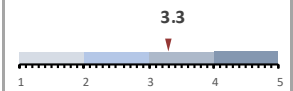


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

Africa Swine Fever

- ◆ **Taiwan** has reported that 9.89% of meat products coming into the country from China, between 2018 and January 15, 2024, tested positive for ASF viral nucleic acid

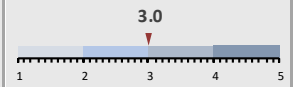
[Read More](#)



Highly Pathogenic Avian Influenza

- ◆ Over the last week, **Canada** has reported outbreaks of HPAI in commercial poultry in: **Quebec(1)**; and in non-commercial poultry in: **Alberta(1)**

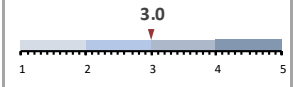
[Read More](#)



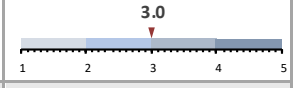
Influenza A (H5N1)

- ◆ **Cambodia** has reported two additional human cases of avian influenza A(H5N1); one in a nine-year-old boy from **Kratie Province**, who died on February 8, 2024, and the other in his brother who had no respiratory symptoms
- ◆ The two human IAV H5N1 cases reported from **Cambodia** at the end of January 2024 have been sequenced and confirmed to belong to clade 2.3.2.1c

[Read More](#)



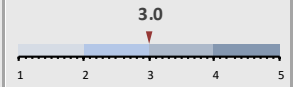
[Read More](#)



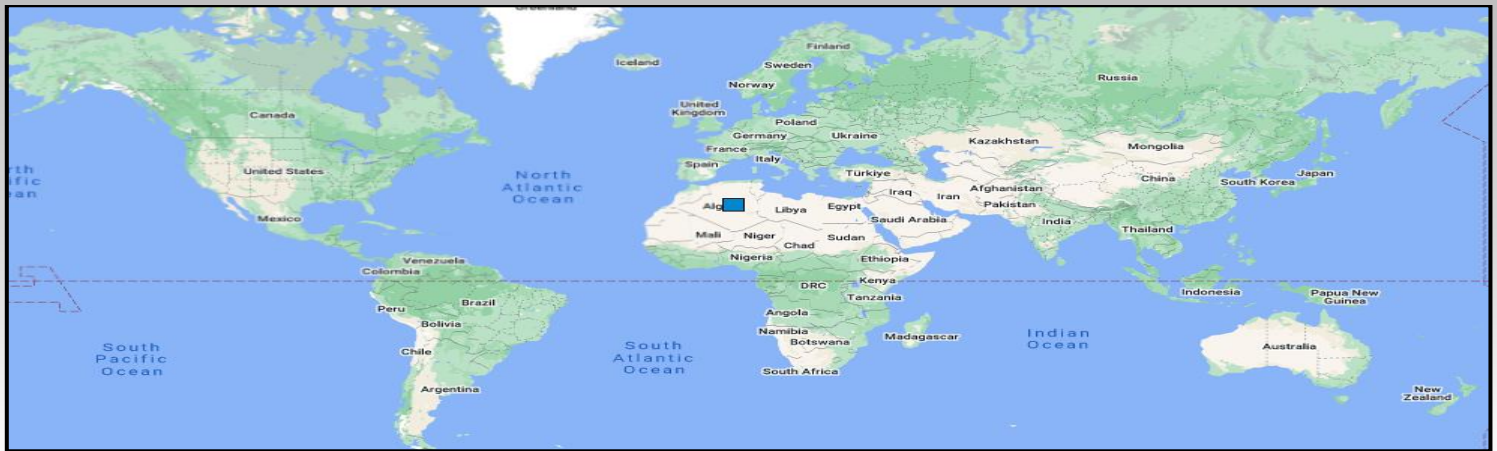
Alaskapox

- ◆ **Alaska** has reported a fatal case of Alaskapox in an elderly man from the **Kenai Peninsula** with a history of drug-induced immunosuppression secondary to cancer treatment; this is the 7th case of Alaskapox and the first death since the virus was first reported in 2015

[Read More](#)



NEW EVENTS: (events rated > 2)



Foot and Mouth Disease SAT-2 in Algeria

Pathogen: virus; **Transmission:** direct contact, fomite, aerosol, ; **Species affected in event:** cattle

① Algeria has reported for the first time FMD serotype SAT-2 in the country. The FMD SAT-2 serotype has been spreading in the Middle East over the last ~two years. Vaccination programs in surrounding African countries are currently focused on serotypes A and O, and are ineffective against SAT-2. Additionally, due to the upcoming Ramadan period in North Africa, an intensification of animal movement is expected in the area.

[Read More](#)

Avg. Rating	2.7
No. of Signal	1
No. of Ratings	3

CONTINUED EVENTS: (events rated ≥ 2.4)

Illegal Meat Products/Imports

No. of Signals: 01

No. of weeks in report: 07

Avg. Rating: 3.3

- [Taiwan](#) has reported that 9.89% of meat products coming into the country from China, between 2018 and January 15, 2024, tested positive for ASF viral nucleic acid

Alaskapox in the USA

No. of Signals: 01

No. of weeks in report: 02

Avg. Rating: 3.0

- [Alaska](#) has reported a fatal case of Alaskapox in an elderly man from the Kenai Peninsula with a history of drug-induced immunosuppression secondary to cancer treatment; this is the 7th case of Alaskapox, since the virus was first reported in 2015, and the first death

Influenza A(H5N1) in Cambodia

No. of Signals: 03

No. of weeks in report: 08

Avg. Rating: 2.7 - 3.0

- [Cambodia](#) has reported two additional human cases of avian influenza A(H5N1); one in a nine-year-old boy from Kratie Province, who died on February 8, 2024, and the other in his brother who had no respiratory symptoms
- The two human IAV H5N1 cases reported from [Cambodia](#) at the end of January 2024 have been sequenced and confirmed to belong to clade 2.3.2.1c

Highly Pathogenic Avian Influenza in North America

No. of Signals: 07

No. of weeks in report: 102

Avg. Rating: 2.0 - 3.0

- Over the last week, [Canada](#) has reported outbreaks of HPAI in commercial poultry in: Quebec(1); and in non-commercial poultry in: Alberta(1)
- HPAI has been confirmed in deceased Canada geese that were found along the Lake Ontario Park waterfront in [Kingston](#), Ontario
- Over the last week, the [USA](#) has reported outbreaks of HPAI in commercial poultry in: Nebraska(1), North Carolina(1), and Colorado(1); in WOA non-poultry in: Pennsylvania(1), Massachusetts(1), and Idaho(1); and in a live bird market in: Florida(1)
- An update on the [California Condor vaccination trial](#) indicates that 94 birds have received at least the initial vaccine dose; some samples from winter trapping have also shown natural antibody titers to HPAI H5N1

Swine Influenza A(H1N1) in Brazil

No. of Signals: 01

No. of weeks in report: 02

Avg. Rating: 2.7

- [Brazil](#) has confirmed a case of swine-origin influenza A (H1N1) variant virus in a patient with underlying medical conditions, who had no history of exposure to pigs, and has since fully recovered; this is the ninth case of a human infection with a swine variant virus reported in the state of Paraná, Brazil, since 2015

New World Screwworm in Costa Rica

No. of Signals: 01

No. of weeks in report: 02

Avg. Rating: 2.7

- [Costa Rica](#) has declared a sanitary emergency due to the presence and spread of new world screwworm; 203 cases have been treated in cattle, horses, pigs, sheep, goats and dogs

Highly Pathogenic Avian Influenza in Europe

No. of Signals: 16

No. of weeks in report: 163

Avg. Rating: 2.0

- [Slovakia](#), [Ukraine](#), [Bulgaria](#), [Denmark](#), [Austria](#), and [Germany](#) have reported HPAI H5N1 in domestic poultry
- [Denmark](#), [Poland](#), [Sweden](#), [Germany](#), [England](#), and [France](#) have reported HPAI H5N1 in wild birds
- [Germany](#) has reported HPAI H5N1 in a red fox
- [France](#) has reported LPAI in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 03

No. of weeks in report: 128

Avg. Rating: 2.0

- [South Korea](#) has reported HPAI H5N6 in wild birds

Highly Pathogenic Avian Influenza in Africa

No. of Signals: 03

No. of weeks in report: 65

Avg. Rating: 2.0

- [Niger](#) has reported HPAI H5N1 in domestic poultry in Niamey region

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

Coronavirus

- ◆ Isolation and characterization of a pangolin-borne HKU4-related coronavirus that potentially infects human-DPP4-transgenic mice [Read More](#)

Influenza

- ◆ Pre-print: Geographic, ecological, and temporal patterns of seabird mortality during the 2022 HPAI H5N1 outbreak on the island of Newfoundland [Read More](#)
- ◆ Avian ANP32A incorporated in avian influenza A virions promotes interspecies transmission by priming early viral replication in mammals [Read More](#)
- ◆ Detection of clade 2.3.4.4 highly pathogenic avian influenza H5 viruses in healthy wild birds in the Hadeji-Nguru wetland, Nigeria 2022 [Read More](#)
- ◆ Synchrony of Bird Migration with Global Dispersal of Avian Influenza Reveals Exposed Bird Orders [Read More](#)

Vectors and Vector-borne Diseases

- ◆ PAHO: Situation Report No 5 - Dengue Epidemiological Situation in the Region of the Americas - Epidemiological Week 04, 2024 [Read More](#)
- ◆ PAHO: Epidemiological Alert - Oropouche in the Region of the Americas - 2 February 2024 [Read More](#)
- ◆ A novel bluetongue virus serotype 2 strain isolated from a farmed Florida white-tailed deer (*Odocoileus virginianus*) arose from reassortment of gene segments derived from co-circulating serotypes in the Southeastern USA [Read More](#)

Other

- ◆ First Report of Bovine Coenurosis in North Macedonia [Read More](#)
- ◆ SHIC-Funded App Study Defines Outbreak Dynamics And Environmental Stability Of Bacteria [Read More](#)
- ◆ ECDC - Communicable disease threats report, 4 – 10 February 2024, week 6 [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.