

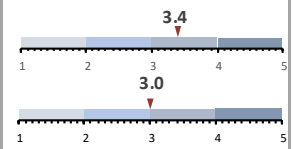
SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

Highly Pathogenic Avian Influenza

- Over the last week, **Canada** has reported outbreaks of HPAI H5N1 in commercial poultry in: **Quebec(5)**
- In the **USA**, **Washington** has reported that a bobcat tested positive for HPAI H5N1 strain 2.3.4.4 last month

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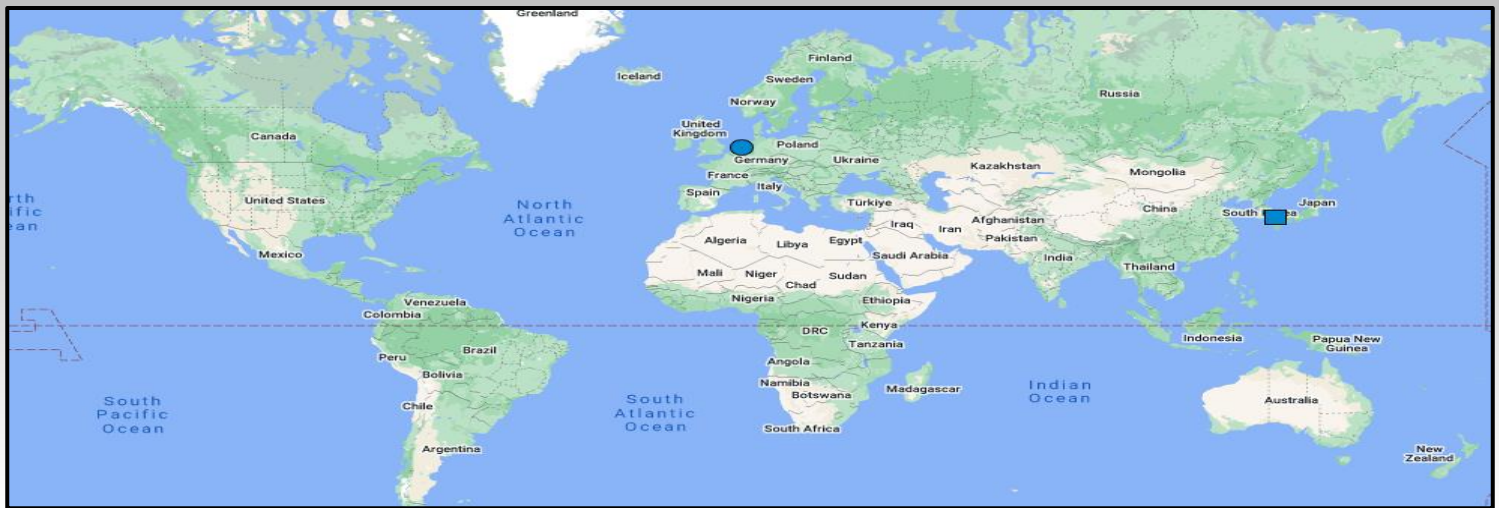
African Swine Fever

- The vaccine against ASF, developed and produced by AVAC Vietnam Co., Ltd., is expected to be distributed nationwide in **Vietnam** this month, after successful piloting in January

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NEW EVENTS: (events rated > 2)



Creutzfeldt-Jakob Disease in South Korea

Pathogen: Prion; **Transmission:** Ingestion, heredity; **Species affected in event:** Human

① South Korea recently held a symposium on the control of spread of Creutzfeldt-Jakob disease. The Korean CDC reported that a total of 67 cases occurred in Korea in 2021, and the trend has been gradually increasing over the past five years: 38 in 2017 → 54 in 2018 → 53 in 2019 → 64 in 2020 → 67 in 2021. Analyzing the number of occurrences by type as of 2021: about 85% (57 cases) of sporadic CJD occurred without any particular cause and about 15% (10 cases) were genetic CJD, which occurs through heredity.

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Avg. Rating	2.5
No. of Signal	1
No. of Ratings	6

Atypical Bovine Spongiform Encephalopathy in the Netherlands

Pathogen: Prion; **Transmission:** Ingestion, atypical; **Species affected in event:** Cow

① The Netherlands have reported a positive case of BSE this week in the cadaver of an 8 year old cow in South Holland. Wageningen Bioveterinary Research has investigated and concluded that it is an atypical variant of BSE. It is the fourth case of atypical BSE ever found in the Netherlands, and only the fourth found in the European Economic Area in the past five years.

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Avg. Rating	1.8 - 2.2
No. of Signal	2
No. of Ratings	4 - 6

CONTINUED EVENTS: (events rated \geq 2.4)

<u>Highly Pathogenic Avian Influenza in North America</u>	<u>No. of Signals: 05</u>	<u>No. of weeks in report: 55</u>	<u>Avg. Rating: 2.6 - 3.4</u>
<ul style="list-style-type: none"> Over the last week, Canada has reported outbreaks of HPAI H5N1 in commercial poultry in: Quebec(5) In Quebec, HPAI H5N1 was identified as the cause of mortality for 14 of the 22 harbour seals examined, for one of the three grey seals examined and for one of the five white-sided dolphins examined; for harbour seals these numbers are just the tip of the iceberg as there were several carcasses that were not collected and analyzed Over the last week, the USDA has reported outbreaks of HPAI H5N1 in commercial poultry in: Pennsylvania; and in WOAHP poultry in: Pennsylvania Washington has reported that a bobcat tested positive for HPAI H5N1 strain 2.3.4.4 last month Wyoming has sent their first suspected HPAI mammal case (a red fox) to the lab for verification 			
<u>African Swine Fever in Asia</u>	<u>No. of Signals: 04</u>	<u>No. of weeks in report: 149</u>	<u>Avg. Rating: 2.0 - 3.0</u>
<ul style="list-style-type: none"> The vaccine against ASF, developed and produced by AVAC Vietnam Co., Ltd. is expected to be distributed nationwide in Vietnam this month, after successful piloting in January Malaysia has reported ASF in a dead male wild boar found in early January The number of pig deaths suspected to be caused by ASF in Indonesia's East Nusa Tenggara has reached 256 In India, ASF has been reported in two pig farms in Kottayam 			
<u>Porcine Epidemic Diarrhea in Canada</u>	<u>No. of Signals: 01</u>	<u>No. of weeks in report: 11</u>	<u>Avg. Rating: 2.7</u>
<ul style="list-style-type: none"> On January 18, 2023, two outbreaks of PED were reported in Ontario, one in Perth County in a nursery-to-finish farm and the other in Oxford County in a farrow-to-wean farm 			
<u>Nipah Virus in Bangladesh</u>	<u>No. of Signals: 03</u>	<u>No. of weeks in report: 03</u>	<u>Avg. Rating: 1.8 - 2.5</u>
<ul style="list-style-type: none"> Bangladesh has now reported nine cases of Nipah virus since the beginning of the year; the primary source of infection in the cases has been the consumption of date palm sap contaminated with bat saliva or urine 			
<u>Chronic Wasting Disease in the United States</u>	<u>No. of Signals: 01</u>	<u>No. of weeks in report: 22</u>	<u>Avg. Rating: 2.4</u>
<ul style="list-style-type: none"> Tennessee has announced they're experiencing significant testing delays for CWD due to a nationwide shortage of test kits, and approximately 2,180 Tennessee CWD samples are currently backlogged 			
<u>Highly Pathogenic Avian Influenza in Europe</u>	<u>No. of Signals: 11</u>	<u>No. of weeks in report: 111</u>	<u>Avg. Rating: 2.0 – 2.4</u>
<ul style="list-style-type: none"> In Russia, Rosselkhozadzor has been unable to confirm HPAI in the dead seals in Dagestan, and has asked the Dagestan State University to provide biological samples of what they tested Romania and Moldova have reported HPAI H5N1 in domestic poultry Belgium, Poland, the Czech Republic, and Austria 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 South America</u>	<u>No. of Signals: 11</u>	<u>No. of weeks in report: 12</u>	<u>Avg. Rating: 2.0 - 2.4</u>
<ul style="list-style-type: none"> Ecuador has reported HPAI H5N1 in poultry and HPAI H5 in wild birds Chile and Honduras have reported additional cases of HPAI H5N1 in pelicans Colombia continues surveillance for HPAI and has reported 40/248 positive samples so far with 51 044 birds having been killed For the first time since 2002, ~75 outbreaks of HPAI have been reported in nine countries in Central and South America 			
<u>Highly Pathogenic Avian Influenza in Asia</u>	<u>No. of Signals: 01</u>	<u>No. of weeks in report: 88</u>	<u>Avg. Rating: 2.0</u>
<ul style="list-style-type: none"> Vietnam has reported HPAI H5N1 in domestic poultry 			

SCIENTIFIC FINDINGS & REPORTS:

Coronavirus

- ◆ Pre-print: Probable transmission of SARS-CoV-2 from an African lion to zoo employees [Read More](#)
- ◆ White-tailed deer (*Odocoileus virginianus*) may serve as a wildlife reservoir for nearly extinct SARS-CoV-2 variants of concern [Read More](#)

Influenza

- ◆ FAO - Global Avian Influenza Viruses with Zoonotic Potential situation update – January 26 [Read More](#)
- ◆ UKHSA - Risk assessment of avian influenza A(H5N1): fourth update [Read More](#)
- ◆ Risk Assessment of the newly emerged H7N9 avian influenza viruses [Read More](#)
- ◆ The concentration of H9N2 avian influenza viruses circulating in different regions in the same live-poultry market poses a potential threat to public health [Read More](#)
- ◆ Swine-to-Ferret Transmission of Antigenically Drifted Contemporary Swine H3N2 Influenza A Virus Is an Indicator of Zoonotic Risk to Humans [Read More](#)

Mpox

- ◆ Genomic Analysis of Early Monkeypox Virus Outbreak Strains, Washington, United States [Read More](#)

Vectors and Vector-borne Diseases

- ◆ WOAHA - Vector alert: *Anopheles stephensi* invasion and spread in Africa and Sri Lanka [Read More](#)

Other

- ◆ Nipah Virus Exposure in Domestic and Peridomestic Animals Living in Human Outbreak Sites, Bangladesh, 2013–2015 [Read More](#)
- ◆ High rates of antibodies against Toscana and Sicilian phleboviruses in common quail *Coturnix coturnix* birds [Read More](#)
- ◆ SHIC - February Domestic Swine Disease Monitoring Report [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.