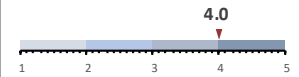


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

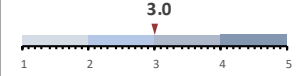
Highly Pathogenic Avian Influenza

- Over the last week, Canada reported one outbreak of HPAI H5N1 in non-commercial poultry in **Quebec**
- Additional cases of HPAI H5N5 (2.3.4.4b) were reported in raccoons, red foxes, and skunks from **Nova Scotia and Prince Edward Island**
- North Carolina and South Dakota** have both confirmed first detections of influenza A H5N1 in dairy herds, bringing the total number of affected states to 8; over the last week, additional detections have also been reported from **Texas, Michigan, and New Mexico**

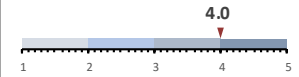
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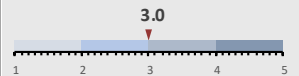
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African Swine Fever

- In **Italy**, ASF has been reported in wild boar on the outskirts of **Langhirano**, in the province of **Parma**, which is home to Prosciutto di Parma and dozens of ham factories

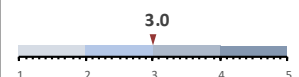
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Chronic Wasting Disease

- Indiana** has confirmed its first positive case of CWD in a male white-tailed deer that was harvested by a hunter in **LaGrange County**

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New World Screwworm

- Costa Rica** has confirmed its third human case of new world screwworm in a man living near the border of **Panama**; the increase in human cases has prompted authorities to launch a specific program for the identification and treatment of new world screwworm in patients
- Panama** has reported >4,700 cases of new world screwworm in cattle and 21 human cases so far this year, compared to ~10,000 cases in cattle in 2023; eradication plans are currently underway via the production of sterile flies

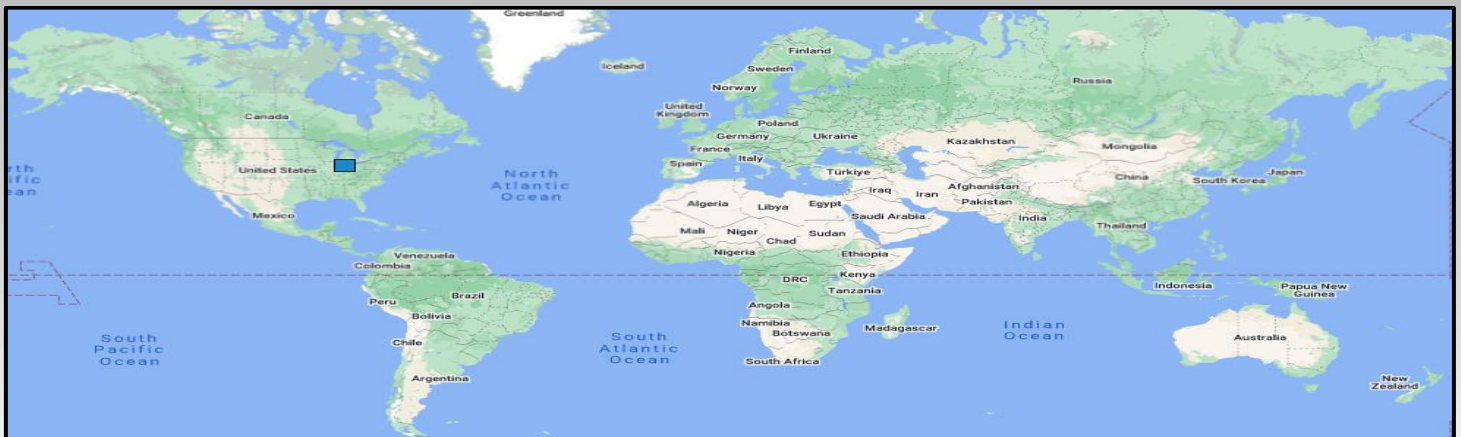
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NEW EVENTS: (events rated > 2)



Chronic Wasting Disease in Indiana

Pathogen: prion; **Transmission:** direct contact, environment; **Species affected in event:** cervid

Indiana has confirmed its first positive case of chronic wasting disease in a male white-tailed deer that was harvested by a hunter. The positive case was recorded in northern Indiana's LaGrange County and is adjacent to a region in Michigan where the disease has previously been detected. CWD has now been detected in wild deer in 33 states, including all states bordering Indiana. [Read More](#)

Avg. Rating	3.0
No. of Signal	1
No. of Ratings	3

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America	<u>No. of Signals: 25</u>	<u>No. of weeks in report: 111</u>	<u>Avg. Rating: 1.7 - 4.0</u>
<ul style="list-style-type: none"> • Over the last week, Canada reported one outbreak of HPAI H5N1 in non-commercial poultry in Quebec • Additional cases of HPAI H5N5 (2.3.4.4b) were reported in raccoons, red foxes, and skunks from Nova Scotia and Prince Edward Island • Over the last week, the USA has reported outbreaks of HPAI in commercial poultry in: Minnesota(1), Michigan(1) and New Mexico(1); and in WOHAI poultry in: Kansas(1) • North Carolina and South Dakota have both confirmed first detections of influenza A H5N1 in dairy herds, bringing the total number of affected states to 8; over the last week, additional detections have also been reported from Texas, Michigan, and New Mexico • At least 18 states have restricted cattle movements due to influenza A, with rules varying by state • Contaminated animal feed, or poultry litter feed, has been hypothesized as a possible route of HPAI infection for the dairy cattle in the USA • New York, Kentucky, and Missouri have reported cases of HPAI H5N1 in wild mammals (raccoon, mink, and red fox) • Mexico has reported two outbreaks of HPAI H5N1 in domestic poultry in Cajeme from October 2023 			
New World Screwworm in Central America	<u>No. of Signals: 04</u>	<u>No. of weeks in report: 04</u>	<u>Avg. Rating: 2.5 - 3.0</u>
<ul style="list-style-type: none"> • Costa Rica has confirmed its third human case of new world screwworm in a man living near the border of Panama; the increase in human cases has prompted authorities to launch a specific program for the identification and treatment of new world screwworm in patients • Panama has reported >4,700 cases of new world screwworm in cattle and 21 human cases so far this year, compared to ~10,000 cases in cattle in 2023; eradication plans are currently underway via the production of sterile flies • Nicaragua has also declared a nationwide animal health alert due to the presence of new world screwworm in livestock 			
African Swine Fever in Europe	<u>No. of Signals: 08</u>	<u>No. of weeks in report: 154</u>	<u>Avg. Rating: 2.0 - 3.0</u>
<ul style="list-style-type: none"> • In Italy, ASF has been reported in wild boar on the outskirts of Langhirano, in the province of Parma, which is home to Prosciutto di Parma and dozens of ham factories • Greece, Bosnia and Herzegovina, and Bulgaria have reported outbreaks of ASF in domestic swine • Poland, Italy, Croatia, and Ukraine have reported cases of ASF in wild boar 			
Influenza A (H10N3) in China	<u>No. of Signals: 01</u>	<u>No. of weeks in report: 54</u>	<u>Avg. Rating: 2.0 - 2.8</u>
<ul style="list-style-type: none"> • China has reported a human case of LPAI H10N3 in a 51-year-old male from Yunnan Sheng, who had prior exposure to live poultry 			
African Swine Fever in Asia	<u>No. of Signals: 02</u>	<u>No. of weeks in report: 136</u>	<u>Avg. Rating: 2.3 - 2.7</u>
<ul style="list-style-type: none"> • China has reported 10 outbreaks of ASF, initiating between November 2023 – January 2024, in pig farms in the New Territories, Hong Kong • In Vietnam, authorities prevented >1.1 tons of pigs, pork, and pig organs, found to be infected with ASF, from being sold at the Thai Nguyen provincial market 			
Highly Pathogenic Avian Influenza in Antarctica	<u>No. of Signals: 01</u>	<u>No. of weeks in report: 09</u>	<u>Avg. Rating: 2.5</u>
<ul style="list-style-type: none"> • An international team of scientists examining the impact of HPAI on Antarctic wildlife have identified further spread of the virus in the Northern Weddell Sea area of Antarctica; so far, skuas seem to be the most severely affected species, and the high mortality levels detected show there may be long-term consequences for their conservation at the regional level 			
Highly Pathogenic Avian Influenza in Europe	<u>No. of Signals: 05</u>	<u>No. of weeks in report: 173</u>	<u>Avg. Rating: 2.3 - 2.5</u>
<ul style="list-style-type: none"> • Latvia and Moldova have reported HPAI H5N1 in wild birds • Norway has reported HPAI H5 in wild birds • A summary of the overall HPAI situation in Europe is available here 			
Oropouche virus in South America	<u>No. of Signals: 04</u>	<u>No. of weeks in report: 02</u>	<u>Avg. Rating: 2.0 - 2.5</u>
<ul style="list-style-type: none"> • Bolivia has confirmed 134 cases of Oropouche virus, primarily transmitted by <i>Culicoides paraensis</i>, across two departments: La Paz and Pando • Brazil has also reported cases of Oropouche virus, with the majority from its northern region – see PAHO update 			
Highly Pathogenic Avian Influenza in South America	<u>No. of Signals: 01</u>	<u>No. of weeks in report: 66</u>	<u>Avg. Rating: 2.3</u>
<ul style="list-style-type: none"> • Brazil has reported HPAI H5N1 in wild birds (tern) 			
Highly Pathogenic Avian Influenza in Asia	<u>No. of Signals: 04</u>	<u>No. of weeks in report: 136</u>	<u>Avg. Rating: 2.0</u>
<ul style="list-style-type: none"> • India has reported two outbreaks of HPAI H5N1 in Andhra Pradesh from February 2024 • Vietnam and Taiwan have reported HPAI H5N1 in domestic birds 			

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

Influenza

- ◆ High pathogenic avian influenza A(H5) viruses of clade 2.3.4.4b in Europe – why trends of virus evolution are more difficult to predict [Read More](#)
- ◆ Upper Respiratory Tract Disease in a Dog Infected by a Highly Pathogenic Avian A/H5N1 Virus [Read More](#)
- ◆ First human case of avian influenza A (H10N3) in Southwest China [Read More](#)
- ◆ Evolution of H6N6 viruses in China between 2014 and 2019 involves multiple reassortment events [Read More](#)
- ◆ Isolation and genetic characteristics of Novel H4N1 Avian Influenza viruses in ChongQing, China [Read More](#)
- ◆ High-pathogenicity avian influenza in wildlife: a changing disease dynamic that is expanding in wild birds and having an increasing impact on a growing number of mammals [Read More](#)
- ◆ Genetic and virological characteristics of a reassortant avian influenza A H6N1 virus isolated from wild birds at a live-bird market in Egypt [Read More](#)
- ◆ Evolutional dynamics of highly pathogenic avian influenza H5N8 genotypes in wintering bird habitats: Insights from South Korea's 2020–2021 season [Read More](#)
- ◆ Pre-print: Detection of clade 2.3.4.4b highly pathogenic H5N1 influenza virus in New York City [Read More](#)
- ◆ WHO – Disease Outbreak News - Avian Influenza A(H5N1) - United States of America [Read More](#)

Vectors and Vector-borne Diseases

- ◆ PAHO – Epidemiological Update - Oropouche in the Region of the Americas - 12 April 2024 [Read More](#)
- ◆ Increased threat of urban arboviral diseases from *Aedes aegypti* mosquitoes in Colombia [Read More](#)
- ◆ A Case of Tick-borne Yezo Virus Infection: Concurrent Detection in the Patient and Tick [Read More](#)

Other

- ◆ Sporotrichosis Cluster in Domestic Cats and Veterinary Technician, Kansas, USA, 2022 [Read More](#)
- ◆ Two Hunters from the Same Lodge Afflicted with Sporadic CJD: Is Chronic Wasting Disease to Blame? (P7 -13.002) [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 16/04/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 7 - 13 April 2024, week 15 [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.