

WEEKLY INTELLIGENCE REPORT

October 14th 2024 - October 20th 2024

SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0) **Highly Pathogenic Avian Influenza** ♦ On October 21, 2024, Canada reported three outbreaks of avian influenza in commercial poultry Read More in British Columbia 3.0 ♦ As of October 21, 2024, the USDA has reported influenza A(H5N1) in a total of 333 dairy herds Read More across 14 states: Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Iowa(13), Texas(26), Michigan(29), Idaho(34), Colorado(64), and California(133) o All of the recent outbreaks have been reported from California(33) 3.0 Michigan has reported an outbreak of HPAI in a dairy herd in Clinton County, bringing the total Read More number of affected dairy herds in Michigan to 30; samples have been sent to the USDA for confirmatory testing 3.0 The USDA has also reported outbreaks of HPAI H5N1 in commercial poultry in: Washington(1) Read More and California(1); and in WOAH non-poultry in: Washington(1) Influenza A (H5) California has now confirmed 13 human cases of influenza A(H5) with mild symptoms and Read More conjunctivitis; all were dairy farm workers Washington has reported preliminary positive results for influenza A(H5N1) in four workers at an 3.0 HPAI affected commercial egg farm in Franklin County; according to the state veterinarian, the Read More current strain circulating in Washington is a poultry strain and not the dairy cow strain

NEW EVENTS: (events rated > 2)

No new events to report this week



VEEKLY INTELLIGENCE REPORT

October 14th 2024 - October 20th 2024

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America

No. of Signals: 07 No. of weeks in report: 138

Avg. Rating: 2.0 - 3.5

- On October 21, 2024, Canada reported three outbreaks of avian influenza in commercial poultry in British Columbia
- Over the last week, the <u>USDA</u> has reported outbreaks of HPAI in commercial poultry in: Washington(1) and California(1); and in WOAH non-poultry in: Washington(1)
- As of October 21, 2024, the USDA has reported influenza A (H5N1) in a total of 333 dairy herds across 14 states: Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Iowa(13), Texas(26), Michigan(29), Idaho(34), Colorado(64), and California(133); all recent outbreaks were reported from California(33)
- Michigan has reported an outbreak of HPAI in a dairy herd in Clinton County, bringing the total number of affected dairy herds in Michigan to 30; samples have been sent to the USDA for confirmatory testing
- Massachusetts has reported 100% negative results after testing all of its dairy herds for influenza A
- Unconfirmed media reports (images and a video) of dead cows in California suggest that the influenza A virus is more lethal than previously reported and is overwhelming standard carcass disposal processes, resulting in animal carcasses being left to decompose in the open
- Florida has recently reported additional findings of HPAI in bottlenose dolphins dating from late 2023 and early 2024
- Wastewater surveillance dashboards for influenza can be found at the CDC and Stanford University's WastewaterSCAN

Influenza A (H5) in the USA

No. of Signals: 08 No. of weeks in report: 26

Avg. Rating: 2.0 - 3.2

- California has now confirmed 13 human cases of influenza A(H5) with mild symptoms and conjunctivitis; all were dairy farm workers
- Washington has reported preliminary positive results for influenza A(H5N1) in four workers at an HPAI affected commercial egg farm in Franklin County; according to the state veterinarian, the current strain circulating in Washington is a poultry strain and not the dairy cow strain

Mpox Worldwide

No. of Signals: 06 No. of weeks in report: 31

Avg. Rating: 2.0 - 2.7

- Africa's surge of mpox cases continues, with the number of fatal cases now >1000 for the year
- Kenya has recorded its first mpox fatality, with a total of 13 confirmed cases since the first detection in July
- Uganda continues to report cases of mpox (clade Ib), bringing the total number of confirmed cases to 104
- Zambia has reported its first case of mpox (clade unspecified) in the country
- Australia has reported an increase in mpox cases, with the 2024 outbreak now much larger than the initial 2022 outbreak

Highly Pathogenic Avian Influenza in Europe

No. of Signals: 19 No. of weeks in report: 195

Avg. Rating: 1.8 - 2.5

- Over the last ~3 weeks the UK has reported increasing detections (~30 different reports) of HPAI H5N5 in wild birds
- Britain and France have both increased their risk level for avian influenza to medium and moderate respectively
- France, Hungary, Poland, Moldova, Bulgaria, and Italy have reported outbreaks of HPAI H5N1 in domestic poultry
- Germany and Italy have reported cases of HPAI H5N1 in wild birds
- Belgium has reported HPAI H5 in wild birds
- A summary of the overall HPAI situation in Europe is available here

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 02 No. of weeks in report: 159

Avg. Rating: 2.4

• After raising its avian influenza risk level due to findings in wild birds, Japan has reported its first outbreak of HPAI in domestic poultry for the season, in a chicken farm in Hokkaido

Highly Pathogenic Avian Influenza in South America

No. of Signals: 01 No. of weeks in report: 77

Avg. Rating: 2.0

• The Falkland Islands have confirmed HPAI in samples taken from dead penguins at Volunteer Point



WEEKLY INTELLIGENCE REPORT

October 14th 2024 - October 20th 2024

ENTIFIC FINDINGS, REPORTS, AND GUIDANCE:
onavirus et al. 1997 et al
Identification and genetic characterization of five novel bat coronaviruses from Yunnan, China Read More
enza
Influenza A(H5N1) Virus Resilience in Milk after Thermal Inactivation Read More
Pre-print: Effects of Oral Exposure to HPAI H5N1 Pasteurized in Milk on Immune Response and Mortality in Mice Read More
Serological analysis in humans in Malaysian Borneo suggests prior exposure to H5 avian influenza near migratory shorebird habitats
Unexpected Delayed Incursion of Highly Pathogenic Avian Influenza H5N1 (Clade 2.3.4.4b) Into the Antarctic Region
Pandemic risk characterisation of zoonotic influenza A viruses using the Tool for Influenza Pandemic Risk Assessment (TIPRA)
Highly pathogenic avian influenza management policy in domestic poultry: from reacting to preventing Read More
An mRNA vaccine candidate encoding H5HA clade 2.3.4.4b protects mice from clade 2.3.2.1a virus infection Read More
Pre-print: Avian influenza virus surveillance across New Zealand and its subantarctic islands detects H1N9 in migratory shorebirds, but not 2.3.4.4b HPAI H5N1
Hot topic: Influenza A H5N1 virus exhibits a broad host range, including dairy cows Read More
<u> </u>
Epidemiological analysis of confirmed mpox cases, Burundi, 3 July to 9 September 2024 Read More
Emerging Monkeypox Virus Sublineage C.1 Causing Community Transmission, Vietnam, 2023
ors and Vector borne Diseases
PAHO - Epidemiological Update Oropouche in the Americas Region - 15 October 2024 Read More
Reemergence of Oropouche Virus in the Americas and Risk for Spread in the United States and Its Territories, 2024 Read More
Co-Circulation of 2 Oropouche Virus Lineages, Amazon Basin, Colombia, 2024 Read More
Rocky Mountain Spotted Fever in Children along the US–Mexico Border, 2017–2023 Read More
Evidence of Human Bourbon Virus Infections, North Carolina, USA Read More
Detection of dengue virus serotype 4 in Panama after 23 years without circulation Read More
<u>er</u>
The Changing Face of Pandemic Risk: 2024 Report Read More
France - Weekly Bulletin for International Animal Health Surveillance 22/10/2024 Read More
ECDC - Communicable disease threats report, 12-18 October 2024, week 42 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.