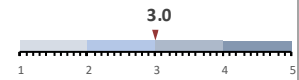


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

Influenza A (H5)

◆ **Colorado** has confirmed three additional cases of avian influenza H5 in poultry workers in association with a second HPAI infected poultry farm in **Weld County**; confirmation of these cases brings the total number of human cases of avian influenza H5 reported in the U.S. since April 2024 to 13

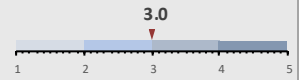
[Read More](#)



Highly Pathogenic Avian Influenza

◆ As of July 29, 2024, the USDA has reported influenza A H5N1 in a total of 172 dairy herds across 13 states: **Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(5), Minnesota(9), New Mexico(8), Iowa(13), Texas(22), Michigan(26), Idaho(30), and Colorado(50)**

[Read More](#)



NEW EVENTS: (events rated > 2)



○ **Small hive beetle in Taiwan**

Pathogen: N/A (insect/pest); **Transmission:** N/A; **Species affected in event:** N/A

① Taiwan has reported its first findings of the small hive beetle in beehives. Beekeepers initially reported the discovery of insects in beehives in Taoyuan City and Chiayi County. Subsequently, they were also found in Hsinchu County, Miaoli County, Changhua County, Nantou County, Chiayi County, and Chiayi City. The presence of hive beetles in apiaries led to movement restrictions on the affected hives. The bees from infected beehives were disposed of on June 25, 2024.

[Read More](#)

Avg. Rating	2.6
No. of Signal	1
No. of Ratings	5

CONTINUED EVENTS: (events rated ≥ 2.4)

Influenza A(H5) in the United States

No. of Signals: 08 **No. of weeks in report: 17** **Avg. Rating: 1.8 - 3.0**

- [Colorado](#) has confirmed three additional cases of avian influenza H5 in poultry workers in association with a second HPAI infected poultry farm in Weld County; confirmation of these cases brings the total number of human cases of avian influenza H5 reported in the U.S. since April 2024 to 13

Highly Pathogenic Avian Influenza in North America

No. of Signals: 09 **No. of weeks in report: 126** **Avg. Rating: 1.4 - 3.0**

- [Canada](#) has not reported any outbreaks of HPAI in domestic poultry over the last week
- Over the last week, the [USDA](#) has reported outbreaks of HPAI in WOAHP non-poultry in: Florida(1)
- As of July 28, 2024, the [USDA](#) has reported influenza A H5N1 in a total of 172 dairy herds across 13 states: Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(5), [Minnesota](#)(9), New Mexico(8), Iowa(13), Texas(22), [Michigan](#)(26), Idaho(30), and [Colorado](#)(50)
- Additional states and herds have enrolled in the [voluntary dairy herd status program](#), bringing the total number of herds involved to 21, across 10 states
- The [CDC](#) has released an additional week of Influenza A (not strain specific) wastewater surveillance data on its dashboard
- Stanford University's [WastewaterSCAN](#) dashboard has additional information on H5 wastewater sampling

Influenza A (H5N6) in China

No. of Signals: 01 **No. of weeks in report: 60** **Avg. Rating: 2.8**

- [China](#) has reported another human case of avian influenza(H5N6), the case involved a 70-year-old female living in Hefei, Anhui Province, who visited a live poultry market before onset of symptoms; from 2014 to date, a total of 93 human cases of avian influenza A(H5N6) have been reported

Avian metapneumovirus in Canada

No. of Signals: 01 **No. of weeks in report: 04** **Avg. Rating: 2.8**

- In [Canada](#), three additional outbreaks of avian metapneumovirus (turkey rhinotracheitis) have been reported in commercial poultry farms across Ontario bringing the nationwide total of affected premises to 42

Oropouche virus in South America

No. of Signals: 01 **No. of weeks in report: 03** **Avg. Rating: 2.8**

- [Brazil](#) has reported the world's first deaths from Oropouche virus, after two women from the state of Bahai died of the illness; both women were under 30 years old, with no comorbidities, and had signs and symptoms similar to severe dengue
- Brazil has reported 7,236 cases of Oropouche infection in 2024, with the majority being reported out of the states of Amazonas and Rondonia

Peste des petits ruminants in Europe

No. of Signals: 05 **No. of weeks in report: 03** **Avg. Rating: 2.4 - 2.6**

- [Romania](#) has reported 31 additional outbreaks of PPR since the initial report on July 19, 2024; the majority of the outbreaks have been reported in the eastern side of the country, with one outbreak reported in the west close to the border with Serbia
- [Greece](#) has reported a total of 22 outbreaks of PPR since the initial report on July 11, 2024; the majority of outbreaks have been reported in the central region, with one outbreak reported in the south of the country
- The source of infection/introduction in both countries remains unknown

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 04 **No. of weeks in report: 149** **Avg. Rating: 2.0**

- [Taiwan](#) has reported two outbreaks of HPAI H5N1 in commercial poultry in Dounan Township
- [Bhutan](#) has reported an outbreak of HPAI H5N1 in commercial poultry in Anderi-Doleg

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

Influenza

- ◆ Spillover of highly pathogenic avian influenza H5N1 virus to dairy cattle [Read More](#)
- ◆ Pre-print: Effectiveness of Pasteurization for the Inactivation of H5N1 Influenza Virus in Raw Whole Milk [Read More](#)
- ◆ Strain-dependent variations in replication of European clade 2.3.4.4b influenza A(H5N1) viruses in bovine cells and thermal inactivation in semi-skimmed or whole milk [Read More](#)
- ◆ UKHSA - Risk Assessment - Influenza A(H5N1) 2.3.4.4b B3.13: US cattle outbreak update [Read More](#)
- ◆ CDC - Notes from the Field: Health Monitoring, Testing, and Case Identification Among Persons Exposed to Influenza A(H5N1) — Michigan, 2024 [Read More](#)
- ◆ Spatiotemporal patterns of low and highly pathogenic avian influenza virus prevalence in murrelets in Canada from 2007 to 2022 — a case study for wildlife viral monitoring [Read More](#)
- ◆ Wastewater Surveillance to Confirm Differences in Influenza A Infection between Michigan, USA, and Ontario, Canada, September 2022–March 2023 [Read More](#)
- ◆ Quantitative Risk Assessment of Wind-Supported Transmission of Highly Pathogenic Avian Influenza Virus to Dutch Poultry Farms via Fecal Particles from Infected Wild Birds in the Environment [Read More](#)
- ◆ Pre-print: Large-Scale Computational Modeling of H5 Influenza Variants Against HA1-Neutralizing Antibodies [Read More](#)
- ◆ Genetic and molecular characterization of H9N2 avian influenza viruses in Yunnan Province, Southwestern China [Read More](#)
- ◆ High Prevalence of Highly Pathogenic Avian Influenza: A Virus in Vietnam's Live Bird Markets [Read More](#)
- ◆ Risk for Waterborne Transmission and Environmental Persistence of Avian Influenza Virus in a Wildlife/Domestic Interface in Mexico [Read More](#)
- ◆ Characterization of Influenza D Virus Reassortant Strain in Swine from Mixed Pig and Beef Farm, France [Read More](#)

Vectors and Vector borne Diseases

- ◆ Pre-print: Emergence of a novel reassortant Oropouche virus drives persistent human outbreaks in the Brazilian Amazon region from 2022 to 2024 [Read More](#)
- ◆ PAHO - Epidemiological Alert Oropouche in the Region of the Americas: vertical transmission event under investigation in Brazil - 17 July 2024 [Read More](#)
- ◆ A climatic suitability indicator to support *Leishmania infantum* surveillance in Europe: a modelling study [Read More](#)

Other

- ◆ Scrapie versus Chronic Wasting Disease in White-Tailed Deer [Read More](#)
- ◆ Identification and characterization of a novel canine circovirus with truncated replicase protein in Sichuan, China [Read More](#)
- ◆ Stable flies are bona fide carriers of mastitis-associated bacteria [Read More](#)
- ◆ Animal Markets and Zoonotic Disease Risk - A Global Synthesis of a 15 Country Study [Read More](#)
- ◆ From wildlife to humans: The global distribution of Trichinella species and genotypes in wildlife and wildlife-associated human trichinellosis [Read More](#)
- ◆ ECDC - Communicable disease threats report, 20 - 26 July 2024, week 30 [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.