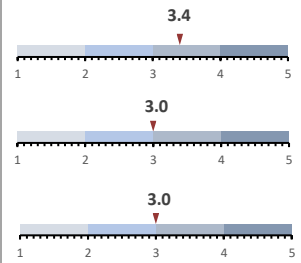


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

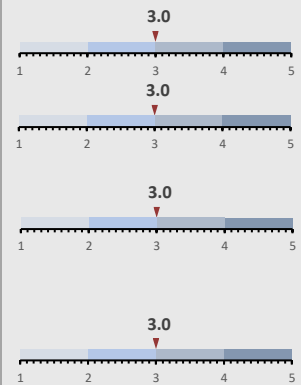
Influenza A (H5)

- ◆ CDC genetic analysis of the IAV H5N1 positive child in **California** (with an unknown source of exposure) most closely resembles the B3.13 genotype circulating in cattle [Read More](#)
- ◆ The second **California** child in **Marion County**, suspected to have contracted IAV after consuming raw milk, has tested negative for the virus [Read More](#)
- ◆ **Louisiana** has detected its first presumptive positive human case of IAV H5N1; the currently hospitalized individual is a resident of southwestern Louisiana and had exposure to sick/dead birds suspected to have been infected with H5N1 [Read More](#)

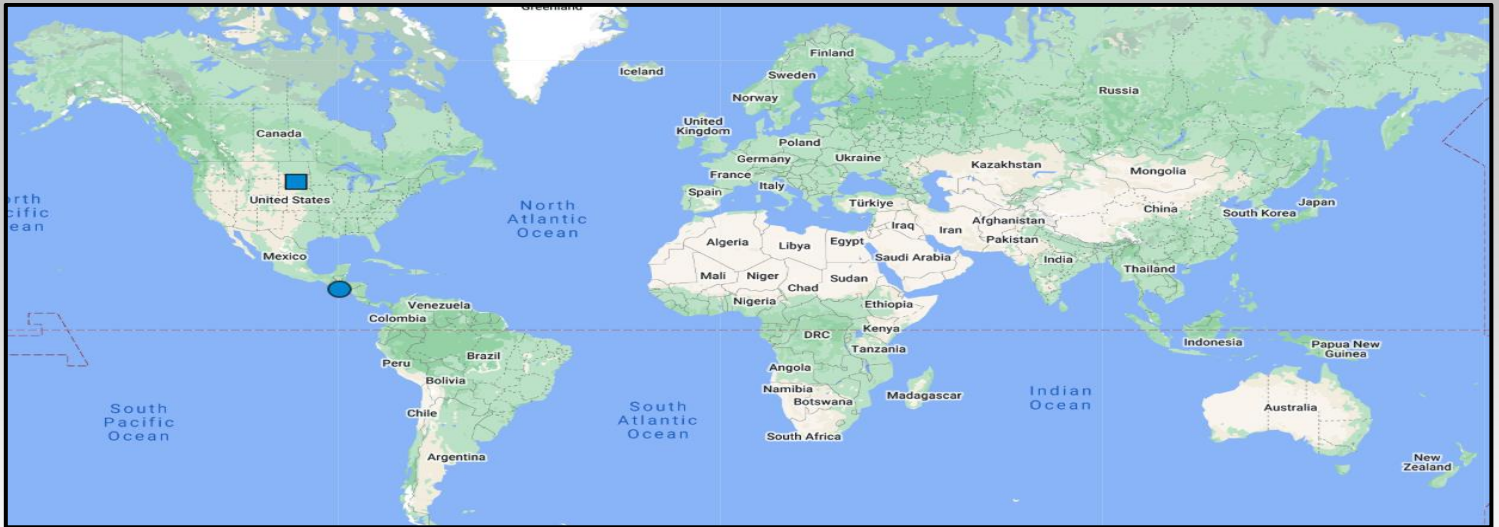


Highly Pathogenic Avian Influenza

- ◆ Over the last week, **Canada** reported additional outbreaks of HPAI in commercial poultry in: **British Columbia**(4) and **Ontario**(1); and in non-commercial poultry in: **Saskatchewan**(1) [Read More](#)
- ◆ HPAI has been confirmed in two ringed seals collected in October near **Resolute Bay, Nunavut** [Read More](#)
- ◆ As of December 16, 2024, the USDA has reported influenza A(H5N1) in 860 dairy herds across 16 states: **Nevada**(1), **Wyoming**(1), **North Carolina**(1), **Ohio**(1), **Oklahoma**(2), **Kansas**(4), **South Dakota**(7), **Minnesota**(9), **New Mexico**(9), **Iowa**(13), **Utah**(13), **Texas**(26), **Michigan**(29), **Idaho**(35), **Colorado**(64), and **California**(645)
 - The recent outbreaks were reported from **California**(139) and **Nevada**(confirmed 1)
- ◆ In **California**, **Los Angeles** County Public Health is investigating two suspected cases of HPAI H5 in cats that consumed recalled raw milk from Raw Farm, LLC; the infected cats died after experiencing lack of appetite, fever, and neurologic signs, and subsequently tested positive for Influenza A [Read More](#)



NEW EVENTS: (events rated > 2)



Bovine tuberculosis in South Dakota

Pathogen: bacteria; **Transmission:** direct contact; **Species affected in event:** cattle

① Bovine tuberculosis has been confirmed in South Dakota cattle for the first time since 2021. The infected steer was identified in late October by meat inspectors during a routine inspection at a Wisconsin packing plant. Records linked the steer to a Hamlin County, South Dakota, feedlot that had marketed the animal. The infection was confirmed by the National Veterinary Surveillance Laboratory in Ames, Iowa, on December 6, 2024.

[Read More](#)

| | |
|----------------|-----|
| Avg. Rating | 2.7 |
| No. of Signal | 1 |
| No. of Ratings | 6 |

New world screwworm in El Salvador

Pathogen: parasitic fly larva; **Transmission:** wound myiasis; **Species affected in event:** cattle

① El Salvador has reported a recurrence of new world screwworm. Samples from a bovine with myiasis in the department of Morazán were confirmed positive on December 13, 2024. Epidemiological surveillance is being maintained at a national level, with greater emphasis on the eastern part of the country, and movement control points have been established.

[Read More](#)

| | |
|----------------|-----|
| Avg. Rating | 2.4 |
| No. of Signal | 1 |
| No. of Ratings | 5 |

CONTINUED EVENTS: (events rated ≥ 2.4)

| | | | |
|---|---------------------------|------------------------------------|-------------------------------|
| Influenza A (H5) in the USA | No. of Signals: 06 | No. of weeks in report: 34 | Avg. Rating: 2.0 - 3.4 |
| <ul style="list-style-type: none"> • CDC genetic analysis of the IAV H5N1 positive child in California (with an unknown source of exposure) most closely resembles the B3.13 genotype circulating in cattle • The second California child in Marion County, suspected to have contracted IAV after consuming raw milk, has tested negative for the virus • Louisiana has detected its first presumptive positive human case of IAV H5N1; the currently hospitalized individual is a resident of southwestern Louisiana and had exposure to sick/dead birds suspected to have been infected with H5N1 | | | |
| Highly Pathogenic Avian Influenza in North America | No. of Signals: 19 | No. of weeks in report: 147 | Avg. Rating: 1.8 - 3.0 |
| <ul style="list-style-type: none"> • Over the last week, Canada reported additional outbreaks of HPAI in commercial poultry in: British Columbia(4) and Ontario(1); and in non-commercial poultry in: Saskatchewan(1) • HPAI has been confirmed in two ringed seals collected in October near Resolute Bay, Nunavut • Over the last week, the USDA has reported outbreaks of HPAI in commercial poultry in: South Dakota(7), California(6), Iowa(3), and Illinois(1) ; in WOAHPoultry in: California(1), Missouri(1), and Oklahoma(1) ; and in WOAHP non-poultry in: Arkansas(3), Missouri(1), Kansas(1), Idaho(2), Colorado(1), and Nebraska(1) • Louisiana and Missouri, along with other states, have reported waterfowl die-offs • Hawaii has reported a detection of HPAI H5 at a wastewater treatment plant in Hilo, the first detection of HPAI on a neighbor island • As of December 16, 2024, the USDA has reported influenza A (H5N1) in 860 dairy herds across 16 states; Nevada(1), Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Iowa(13), Utah(13), Texas(26), Michigan(29), Idaho(35), Colorado(64), and California(645); the recent outbreaks were reported from California(139) and Nevada(confirmed 1) • In California, Los Angeles County Public Health is investigating two suspected cases of HPAI H5 in cats that consumed recalled raw milk from Raw Farm, LLC; the infected cats died after experiencing lack of appetite, fever, and neurologic signs, and subsequently tested positive for Influenza A • California has issued another raw milk recall due to the detection of influenza A(H5N1); the order applies to “Valley Milk Simply Bottle Raw Cow Milk” and “DESI Milk Raw Cow Milk” • Oregon will begin testing milk this week for HPAI as part of a federal program to monitor the virus • Arizona has reported HPAI in animals at the Wildlife World Zoo & Aquarium; a cheetah, mountain lion, a swampphen, an Indian goose, and a kookaburra all died as a result, while a white tiger which tested positive is recovering • Wastewater surveillance dashboards for influenza can be found at the CDC and Stanford University’s WastewaterSCAN | | | |
| Influenza A (H9N2) in China | No. of Signals: 01 | No. of weeks in report: 62 | Avg. Rating: 2.7 |
| <ul style="list-style-type: none"> • China has reported two more human cases of influenza A (H9N2), which involve children in two different provinces; both patients are 1-year-old girls, the first from Guizhou province and the second from neighboring Guangxi province | | | |
| Highly Pathogenic Avian Influenza in Europe | No. of Signals: 18 | No. of weeks in report: 203 | Avg. Rating: 2.0 - 2.4 |
| <ul style="list-style-type: none"> • Italy, Hungary, the UK, and Germany have reported outbreaks of HPAI H5N1 in domestic poultry • Germany, the Netherlands, Hungary, Norway, Italy, Switzerland, and Portugal have reported cases of HPAI H5N1 in wild birds • In Slovakia, the Košice Zoo has closed due to a confirmed case of HPAI H5N1 • A summary of the overall HPAI situation in Europe is available here | | | |
| Highly Pathogenic Avian Influenza in Asia | No. of Signals: 07 | No. of weeks in report: 167 | Avg. Rating: 2.0 - 2.2 |
| <ul style="list-style-type: none"> • South Korea, Japan, and Taiwan have reported HPAI H5N1 in domestic poultry • The Philippines have reported HPAI H5N2 at a duck farm in Camarines Norte • Japan has reported HPAI H5N1 in wild birds | | | |

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

Coronavirus

- ◆ Ongoing Evolution of Middle East Respiratory Syndrome Coronavirus, Saudi Arabia, 2023–2024 [Read More](#)
- ◆ Genomic characterization and cross-species transmission potential of hedgehog coronavirus [Read More](#)

Influenza

- ◆ Marked neurotropism and potential adaptation of H5N1 clade 2.3.4.4.b virus in naturally infected domestic cats [Read More](#)
- ◆ Novel human-type receptor-binding H5N1 virus in live poultry markets, China [Read More](#)
- ◆ A One Health Investigation into H5N1 Avian Influenza Virus Epizootics on Two Dairy Farms [Read More](#)
- ◆ Testing of retail cheese, butter, ice cream and other dairy products for highly pathogenic avian influenza in the US [Read More](#)
- ◆ Replication Restriction of Influenza A(H5N1) Clade 2.3.4.4b Viruses by Human Immune Factor, 2023–2024 [Read More](#)
- ◆ An epizootic of highly pathogenic avian influenza virus H7N3 in a Mexican ecological reserve [Read More](#)
- ◆ Natural infection of common cranes (*Grus grus*) with highly pathogenic avian influenza H5N1 in Serbia [Read More](#)

Mpox

- ◆ WHO - Mpox Multi-country external situation report no. 43, published 9 December 2024 [Read More](#)

Other

- ◆ Bats and ectoparasites: exploring a hidden link in zoonotic disease transmission [Read More](#)
- ◆ Geographically widespread and novel hemotropic mycoplasmas and bartonellae in Mexican free-tailed bats and sympatric North American bat species [Read More](#)
- ◆ Visceral Cysticercosis in a Kunekune Sow: Molecular Identification and Implications for Swine Health [Read More](#)
- ◆ Duration of viral persistence in human semen after acute viral infection: a systematic review [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 17/12/2024 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 7-13 December 2024, week 50 [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.