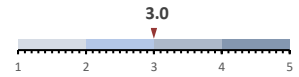


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

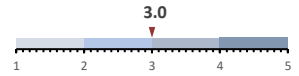
Highly Pathogenic Avian Influenza

- ◆ Over the last two weeks, **Canada** reported additional outbreaks of HPAI in commercial poultry in: **British Columbia(4)** and **Ontario(2)**; and in non-commercial poultry in: **British Columbia(1)**
- ◆ As of January 7, 2025, the USDA has reported influenza A(H5N1) in 919 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(27)**, **Michigan(29)**, **Idaho(35)**, **Colorado(64)**, and **California(703)**
 - All recent outbreaks were reported from **California(39)**
- ◆ **Oregon** has confirmed HPAI H5N1 in a domestic indoor cat that died; the cat had been fed a commercial raw pet food diet that tested positive for HPAI H5N1(B3.13) and has been recalled
 - The pet food (Northwest Naturals brand 2lb Feline Turkey Recipe raw & frozen pet food) was sold by distributors in 12 states plus **British Columbia** - the affected lots have expiry dates of 5/21/26 B10 and 06/23/26 B1
- ◆ The USDA has updated their list of HPAI H5N1 detections in mammals bringing the total number of detections to 448, 62 of which are in domestic cats (likely a gross underestimate)

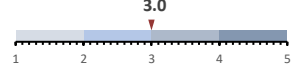
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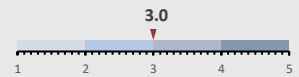
Influenza A (H5)

- ◆ The **USA** has reported the first human death due to influenza A(H5N1) in the country, in a person from **Louisiana** who was hospitalized with severe symptoms; DNA sequencing of the HA gene segment from the combined NP/OP sample detected low frequency mixed nucleotides corresponding to notable amino acid residues: A134A/V; N182N/K; and E186E/D
- ◆ Journal Article: Critical Illness in an Adolescent with Influenza A(H5N1) Virus Infection
 - Provides additional details on the severe human case of influenza A(H5N1) in the 13-year-old girl from **British Columbia**

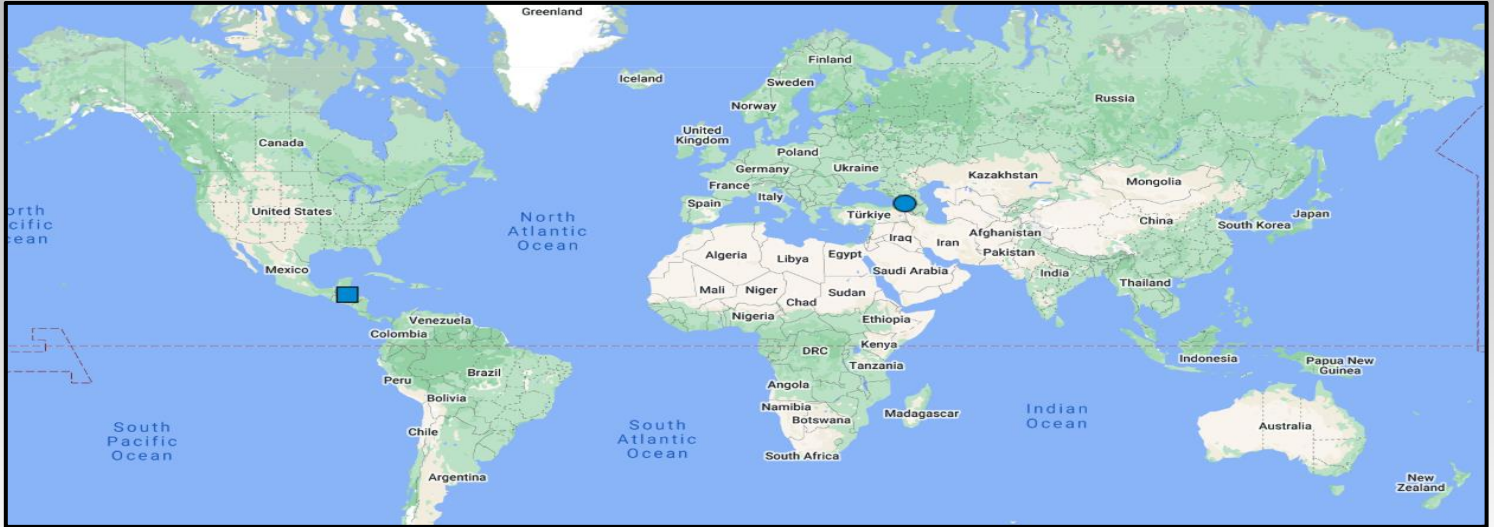
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NEW EVENTS: (events rated > 2)



■ New World Screwworm in Belize

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

① Belize has reported a reoccurrence of the New World Screwworm, previously reported in late 1994. *Cochliomyia hominivorax* was identified in an ear tag wound of an 8-month-old heifer in Crique Sarco, Toledo District. The larvae were extracted, the wound was cleaned and treated, and the animal was administered parenteral Ivermectin 1%. The farm was placed under quarantine, adjacent farm owners were notified, and livestock in the surrounding area were inspected for signs of infestation.

[Read More](#)

Avg. Rating	2.7
No. of Signal	1
No. of Ratings	3

● Tropilaelaps spp. in Georgia

Pathogen: parasitic mites; **Transmission:** lay eggs in brood cells; **Species affected in event:** honeybees

① Georgia has reported its first occurrence of *Tropilaelaps* spp. in the country. One outbreak was reported in Lia, Samegrelo-Zemo Svaneti region, on July 21, 2024, which was only recently confirmed and reported to WOA. The event is listed as resolved.

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Avg. Rating	2.5
No. of Signal	1
No. of Ratings	2

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America	No. of Signals: 20	No. of weeks in report: 149	Avg. Rating: 2.0 - 3.0
<ul style="list-style-type: none"> Over the last two weeks, Canada reported additional outbreaks of HPAI in commercial poultry in: British Columbia(4) and Ontario(2); and in non-commercial poultry in: British Columbia(1) Over the last two weeks, the USDA has reported outbreaks of HPAI in commercial poultry in: California(9), Michigan(6), Oklahoma(2), Ohio(1), Arkansas(1), Wisconsin(1), Nebraska(1), Mississippi(1), Missouri(1), Illinois(1), South Carolina(1), Delaware(1), Indiana(1), and North Carolina(1); in WOAHP poultry in: South Dakota(1) and West Virginia(1); in WOAHP non-poultry in: Idaho(5), Missouri(3), Kansas(3), California(2), Vermont(1), Wyoming(1), Tennessee(1), Michigan(1), Arkansas(1), Minnesota(1), Florida(1), and Iowa(1) As of January 7, 2025, the USDA has reported influenza A (H5N1) in 819 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(27), Michigan(29), Idaho(35), Colorado(64), and California(703); all recent outbreaks were reported from California(39) Oregon has confirmed HPAI H5N1 in a domestic indoor cat that died; the cat had been fed a commercial raw pet food diet that tested positive for HPAI H5N1(B3.13) and has been recalled; the pet food (Northwest Naturals brand 2lb Feline Turkey Recipe raw & frozen pet food) was sold by distributors in 12 states plus British Columbia - the affected lots have expiry dates of 5/21/26 B10 and 06/23/26 B1 In California, The Los Angeles County Department of Public Health is advising residents to not feed their pets Monarch Raw Pet Food due to the detection of HPAI H5 in product samples; five cats from one household became sick after consuming the food (1 confirmed for HPAI, 4 presumed) The USDA has updated their list of HPAI H5N1 detections in mammals bringing the total number of detections to 448, 62 of which are in domestic cats (likely a gross underestimate) 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: 05	No. of weeks in report: 36	Avg. Rating: 2.0 - 3.0
<ul style="list-style-type: none"> The USA has reported the first human death due to influenza A(H5N1) in the country, in a person from Louisiana who was hospitalized with severe symptoms; DNA sequencing of the HA gene segment from the combined NP/OP sample detected low frequency mixed nucleotides corresponding to notable amino acid residues: A134A/V; N182N/K; and E186E/D As of January 7, 2025, the CDC has reported 66 confirmed human cases of IAV H5, along with an additional seven probable cases (H5 positive at a public health laboratory but not confirmed by CDC) 			
Highly Pathogenic Avian Influenza in Europe	No. of Signals: 12	No. of weeks in report: 205	Avg. Rating: 2.0 - 2.7
<ul style="list-style-type: none"> Norway has reported HPAI H5N5 in a lynx in Burfjord The Czech Republic, Poland, France, Portugal, and Germany have reported outbreaks of HPAI H5N1 in domestic poultry Denmark, Slovenia, the Netherlands, and Germany have reported cases of HPAI H5N1 in wild birds A summary of the overall HPAI situation in Europe is available here 			
Bluetongue virus in Europe	No. of Signals: 11	No. of weeks in report: 18	Avg. Rating: 2.0 - 2.5
<ul style="list-style-type: none"> The UK, Norway, and Austria have reported additional cases of BTV-3, this is somewhat late in the season for midge activity Cyprus and Austria has reported additional cases of BTV-4 			
Mpox worldwide (Belgium, Nepal)	No. of Signals: 02	No. of weeks in report: 37	Avg. Rating: 2.0 - 2.4
<ul style="list-style-type: none"> Belgium has reported its first case of mpox clade Ib in an individual returning from one of the countries affected by the epidemic in Africa Nepal has reported its first confirmed case of mpox in a Nepali citizen who recently returned from Saudi Arabia 			
Highly Pathogenic Avian Influenza in Asia	No. of Signals: 07	No. of weeks in report: 169	Avg. Rating: 2.0 - 2.3
<ul style="list-style-type: none"> Israel, South Korea, and Japan have reported outbreaks of HPAI H5N1 in domestic poultry Indonesia has reported HPAI in domestic poultry 			
Highly Pathogenic Avian Influenza in South America	No. of Signals: 02	No. of weeks in report: 80	Avg. Rating: 2.0
<ul style="list-style-type: none"> Colombia has reported an outbreak of HPAI H5N1 in domestic poultry The Falkland Islands have recently reported to WOAHP the deaths of 40 southern elephant seals due to HPAI H5N1 in February 2024 			

SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

Influenza

- ◆ Critical Illness in an Adolescent with Influenza A(H5N1) Virus Infection [Read More](#)
- ◆ Highly Pathogenic Avian Influenza A(H5N1) Virus Infections in Humans [Read More](#)
- ◆ A single mutation in dairy cow-associated H5N1 viruses increases receptor binding breadth [Read More](#)
- ◆ Recurring incursions and dissemination of novel Eurasian-origin H5Nx avian influenza viruses in Atlantic Canada [Read More](#)
- ◆ Detection of a Reassortant Swine- and Human-Origin H3N2 Influenza A Virus in Farmed Mink in British Columbia, Canada [Read More](#)
- ◆ Evidence of an emerging triple-reassortant H3N3 avian influenza virus in China [Read More](#)
- ◆ Zoonotic transmission of novel Influenza A variant viruses detected in Brazil during 2020 to 2023 [Read More](#)
- ◆ Molecular Evolution of the H5 and H7 Highly Pathogenic Avian Influenza Virus Haemagglutinin Cleavage Site Motif [Read More](#)
- ◆ Strategic challenges in the global control of high pathogenicity avian influenza [Read More](#)

Vectors and Vector Borne Diseases

- ◆ Concurrent Severe Fever with Thrombocytopenia Syndrome Virus Outbreaks on Multiple Fox Farms, China, 2023 [Read More](#)
- ◆ Prevalence, Isolation, and Molecular Characterization of Severe Fever with Thrombocytopenia Syndrome Virus in Cattle from the Republic of Korea [Read More](#)
- ◆ CDC MMWR - Tularemia — United States, 2011–2022 [Read More](#)

Other

- ◆ CDC MMWR - Outbreak of Blastomycosis Among Paper Mill Workers — Michigan, November 2022–May 2023 [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 07/01/2025 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 28 December 2024 – 3 January 2025, week 53 [Read More](#)
- ◆ SHIC Global Disease Monitoring Report – January 2025 [Read More](#)
- ◆ SHIC Domestic Disease Monitoring Report – January 2025 [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.