

January 6<sup>th</sup> 2025 - January 12<sup>th</sup> 2025

SUMMARY: RELEVANT SIGNALS (includes all signals rated $\geq$ 3.0)	
Foot and Mouth Disease       Image: Second Sec	<b>3.8</b> <b>7</b> 1 2 3 4 5
Highly Pathogenic Avian Influenza	
<ul> <li>Over the last week, Canada reported additional outbreaks of HPAI in commercial poultry in: British Columbia(2) and Ontario(1)</li> </ul>	3.0 Y
<ul> <li>As of January 13, 2025, the USDA has reported influenza A(H5N1) in 925 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(708)</li> </ul>	<b>3.0</b> <b>7</b> 1 2 3 4 5
<ul> <li>All recent outbreaks were reported from California(5)</li> <li>In California, as a result of the influenza A H5N1 in dairy cattle, some veterinarians are reporting worsening calf health and increased abortions in adult cattle</li> </ul>	<b>3.0</b> 1 2 3 4 5
Iceland has reported HPAI H5N5 in a 10-week-old kitten, two other cats from the same litter have also died but were not investigated; the cats were most likely infected after exposure to wild birds Read More	3.0 Y 1 2 3 4 5
Influenza A (H5N1)	3.0
Cambodia has reported its first human case of IAV H5N1 for 2025; the 28-year-old man from Kampong Cham Province had cooked sick chickens for food, developed severe illness, and died on January 10, 2025	
<ul> <li>California has reported a presumptive positive IAV H5N1 case in a child from San Francisco who experienced symptoms of fever and conjunctivitis and has since fully recovered</li> </ul>	<b>3.0</b> 1 2 3 4 5
Kansas has recently reports Theileria orientalis Ikeda in calves imported from the east of the country       Read More	<b>3.0</b> 1 2 3 4 5



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## NEW EVENTS: (events rated > 2)



## Foot and Mouth Disease (serotype O) in Germany

### Pathogen: virus; Transmission: direct contact, fomite, aerosol; Species affected in event: water buffalo

● An outbreak of FMD (serotype O) has been detected in the German state of Brandenburg for the first time since 1988. The National Reference Laboratory for FMD of the Friedrich-Loeffler-Institute has confirmed an infection with FMD virus in water buffalo in Märkisch-Oderland, Brandenburg. Three water buffalo in the region have died and 11 have been killed as a precautionary measure. Closely related FMD viruses are found in the Middle East and Asia, but the exact origin and route of entry into livestock is still unknown. Suitable vaccines against these viruses are available in the German FMD antigen bank. Read More

Avg. Rating	3.3 - 3.8
No. of Signal	3
No. of Ratings	3 - 30

Red



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CONTINUED EVENTS: (events rated $\geq$ 2.4)			
<ul> <li>Influenza A (H5N1) in Cambodia</li> <li>Cambodia has reported its first human case of IAV H5N1 for 2025; the developed severe illness, and died on January 10, 2025</li> </ul>	No. of Signals: 02 he 28-year-old man fror	No. of weeks in report: 15 M Kampong Cham Province had cool	Avg. Rating: 3.0 ked sick chickens for food,
Theileriosis in the USA           • Kansas has recently reported Theileria orientalis Ikeda in calves imp	No. of Signals: 01 orted from the east of t	No. of weeks in report: 05 he country	Avg. Rating: 3.0
Highly Pathogenic Avian Influenza in Europe	No. of Signals: 22	No. of weeks in report: 206	Avg. Rating: 2.0 - 3.0
<ul> <li>iceland has reported HPAI H5N5 in a 10-week-old kitten, two other most likely infected after exposure to wild birds</li> <li>iceland has also reported HPAI H5N5 in wild birds</li> <li>Germany, England, Poland, and France have reported outbreaks of H         <ul> <li>Belgium, England, Scotland, Slovenia, Hungary, Germany, Italy, and H             </li> <li>A summary of the overall HPAI situation in Europe is available here</li> </ul> </li> </ul>	cats from the same litte	r have also died but were not invest poultry	igated; the cats were
Highly Pathogenic Avian Influenza in North America	No. of Signals: 15	No. of weeks in report: 150	Avg. Rating: 2.0 - 3.0
<ul> <li>Over the last week, <u>Canada</u> reported additional outbreaks of HPAI in</li> <li>One of the recently reported HPAI outbreaks in <u>British Columbia</u> inv</li> <li>Update: The Canadian importer of the previously reported voluntary they did not receive any of the product that was recalled on Decemi</li> <li>Over the last week, the <u>USDA</u> has reported outbreaks of HPAI in corr WOAH poultry in: Puerto Rico(1) and Oregon(1); and in WOAH non-Missouri(1), Idaho(1), and Michigan(1)</li> <li>As of January 13, 2025, the <u>USDA</u> has reported influenza A (H5N1) in Ohio(1), Oklahoma(2), Kansas(4), South Dakota(7), <u>Minnesota(9)</u>, Na and California(708); all recent outbreaks were reported from Califor</li> <li>The <u>USDA</u> announced 15 more states have enrolled in its National N covering 65% of the nation's milk production</li> <li>In <u>California</u>, as a result of the influenza A H5N1 in dairy cattle, some cattle</li> <li><u>California</u> has banned all poultry and dairy cattle exhibitions until fu</li> <li>In <u>Pennsylvania</u>, HPAI is suspected to have caused the deaths of abc</li> <li><u>Washington</u> has reported the deaths of two wild mountain lions due</li> <li>Wastewater surveillance dashboards for influenza can be found at t</li> <li><u>Influenza A (H5) in the USA</u></li> <li><u>California</u> has reported a presumptive positive IAV H5N1 case in a chas since fully recovered</li> <li>In <u>Michigan</u>, eleven people who had contact with infected birds in C like symptoms</li> </ul>	n commercial poultry in olves an ostrich farm w y recalled pet food (Nor ber 24, 2024 nmercial poultry in: Ohi poultry in: South Dakot: n 925 dairy herds across ew Mexico(9), Iowa(13) nia(5) filk Testing Strategy, bri e veterinarians are repo rther notice out 200 snow geese in the to HPAI he <u>CDC</u> and Stanford Ur <u>No. of Signals: 06</u> nild from San Francisco	: British Columbia(2) and Ontario(1) ith ~400 birds thwest Naturals brand 2lb Feline Tu o(2), Indiana(1), North Carolina(1), a a(2), Texas(2), Minnesota(1), Iowa(1 a 16 states; Nevada(1), Wyoming(1), , Utah(13), Texas(27), <u>Michigan(29)</u> , inging the total number of participat orting worsening calf health and incre ne greater Allentown area niversity's <u>WastewaterSCAN</u> <u>No. of weeks in report: 37</u> who experienced symptoms of fever g monitored for signs of the IAV H5N	rkey Recipe) confirmed that and Delaware(1); in ), Georgia(1), Florida(1), North Carolina(1), Idaho(35), <u>Colorado</u> (64), ting states to 28 and eased abortions in adult <u>Avg. Rating: 2.0 - 3.0</u> r and conjunctivitis and N1, two of which have flu-
New World Screwworm in Central/North America	No. of Signals: 03	No. of weeks in report: 20	Avg. Rating: 2.3 - 2.5
<ul> <li>As of January 9, 2025, authorities in <u>Honduras</u> have confirmed 242 of <u>Belize</u> has confirmed its second case of NWS in the Toledo District, v</li> </ul>	cases of NWS, with no re	eports in humans so far	<u></u>
Highly Pathogenic Avian Influenza in Asia	No. of Signals: 17	No. of weeks in report: 170	Avg. Rating: 2.0 - 2.5
<ul> <li>India has reported the deaths of three tigers and one leopard at a rechickens</li> <li>South Korea has reported HPAI H5N3 in a wild bird from October 20</li> </ul>	escue center Nagpur du	e to HPAI H5N1, likely acquired by co	
• The <u>Philippines</u> have reported an outbreak of HPAI H5N2 in backyar		•	
<ul> <li><u>Vietnam</u>, <u>Israel</u>, <u>Japan</u>, and <u>South Korea</u> have reported outbreaks of</li> <li>In China, the city of <u>Shanghai</u> is suspending the sale of live poultry u</li> </ul>		: poultry	
Mpox worldwide (China, France)	No. of Signals: 04	No. of weeks in report: 38	<u>Avg. Rating: 2.0 - 2.5</u>
• <u>China</u> has reported a cluster outbreak of mpox clade lb, with the sou DRC; four cases have been found in people infected after close cont	act with the foreigner	-	history of living in the
<ul> <li><u>France</u> has reported its first case of mpox clade lb in a women who l</li> <li><u>Sierra Leone</u> has reported its first case of mpox (clade unknown) in a</li> </ul>			



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SCIE	ENTIFIC FINDINGS, REPORTS, AND GUIDANCE:				
Influ	ienza				
<b></b>	Pre-print: Polymerase mutations underlie early adaptation of H5N1 influenza virus to dairy cattle and other mammals Read More				
<b></b>	Comparison of Contemporary and Historic Highly Pathogenic Avian Influenza A(H5N1) Virus Replication in Human Lung Organoids Read More				
٨	Detection and characterization of high pathogenicity avian influenza virus (H5N1/H5N8) clade 2.3.4.4b, Hong Kong SAR, China, 2021 to Read More 2024				
۲	The H5N6 Virus Containing Internal Genes From H9N2 Exhibits Enhanced Pathogenicity and Transmissibility Read More				
<u>Mpc</u>	<u>x</u>				
۲	WHO - Mpox Multi-country external situation report no. 45, published 11 January 2025 Read More				
Vectors and Vector Borne Diseases					
۲	Human Infection with a Novel Tickborne Orthonairovirus Species in China Read More				
۲	Eilat virus isolated from <i>Culex univittatus</i> mosquitoes from the Namibian Zambezi Region influences in vitro superinfection with <i>Read More</i> alpha- and flaviviruses in a virus-species-dependent manner				
	Two Human Infections with Diverse Europe-1 Crimean-Congo Hemorrhagic Fever Virus Strains, North Macedonia, 2024 Read More				
<u>Other</u>					
۲	Catastrophic and persistent loss of common murres after a marine heatwave Read More				
	Cross-species recognition of two porcine coronaviruses to their cellular receptor aminopeptidase N of dogs and seven other species Read More				
	CIDRAP Chronic Wasting Disease Spillover Preparedness and Response: Charting an Uncertain Future Read More				
۲	CDC - National One Health Framework to Address Zoonotic Diseases and Advance Public Health Preparedness in the United States Read More				
۲	France - Weekly Bulletin for International Animal Health Surveillance 14/01/2025 Read More				

ECDC - Communicable disease threats report, 4 - 10 January 2025, week 52 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.