

SUMMARY: RELEVANT EVENTS (includes all events rated ≥ 3.0)

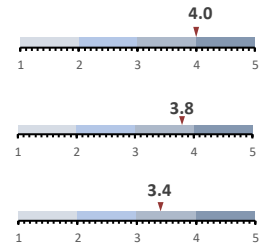
Highly Pathogenic Avian Influenza

- ◆ HPAI has been confirmed in all **North American** flyways
- ◆ Over the last week, the USDA has reported outbreaks of HPAI in commercial poultry (**Wisconsin, South Dakota, Maryland, Iowa, Missouri, Delaware**), in backyard birds (**Maine, Kansas, Illinois**), and wild birds (**Iowa, Missouri, Kansas, Kentucky, Tennessee**)
- ◆ **Canada** has confirmed the presence of HPAI in a black-backed gull in Riverview, **New Brunswick**

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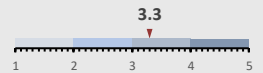
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Japanese Encephalitis Virus

- ◆ JEV has spread rapidly through four **Australian** states in the past week, infecting pigs, horses and people. The virus has been detected in **Victoria, Queensland, New South Wales and South Australia**

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NEW EVENTS: (events rated > 2)



Japanese Encephalitis in Australia

Pathogen: Virus ; **Transmission:** Vector ; **Species affected in event:** Porcine, Equine, Human

① JEV has spread rapidly through four Australian states in the past week, infecting pigs, horses and people. The virus has been detected in Victoria, Queensland, New South Wales and South Australia with cases now confirmed at six piggeries in Victoria, and 14 in total across the country. As of March 10, 2022 there have been 15 confirmed cases in humans: New South Wales (4), Queensland (1), South Australia (4) and Victoria (6). Two deaths have been reported.

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Avg. Rating	2.3 - 3.3
No. of Signal	2
No. of Ratings	3 - 23

Lumpy skin disease in Singapore

Pathogen: Virus ; **Transmission:** Vector ; **Species affected in event:** Cattle

① Singapore has reported an outbreak of LSD for the first time. The outbreak occurred on farm in the locality of Lim Chu Kang on March 9, 2022 and was confirmed by PCR on March 11, 2022.

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Avg. Rating	2.3
No. of Signal	1
No. of Ratings	4

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America	No. of Signals: 19	No. of weeks in report: 10	Avg. Rating: 2.0 – 4.0
<ul style="list-style-type: none"> HPAI has been confirmed in all North American flyways The USDA has reported outbreaks of HPAI in commercial poultry (Wisconsin, South Dakota, Maryland, Iowa, Missouri, Delaware), in backyard birds (Maine, Kansas, Illinois), and wild bird (Iowa, Missouri, Kansas, Kentucky, Tennessee) Canada has confirmed the presence of HPAI in a black-backed gull in Riverview, New Brunswick 			
African Swine Fever in Asia	No. of Signals: 03	No. of weeks in report: 141	Avg. Rating: 2.3 – 2.8
<ul style="list-style-type: none"> Vietnam, Thailand, and the Philippines have reported outbreaks of ASF in domestic swine 			
Highly Pathogenic Avian Influenza in Europe	No. of Signals: 13	No. of weeks in report: 65	Avg. Rating: 2.0 – 2.8
<ul style="list-style-type: none"> Scotland, Poland, Portugal, and the Netherlands have reported outbreaks of HPAI H5N1 in domestic poultry As of March 10, 2022, a total of 662 clusters of HPAI have been detected in France between Nov 2021 and Feb 2022, ~ 4.18 million birds have been culled France, Slovakia, Scotland, Greece, Belgium, and Spain have reported cases of HPAI H5N1 in wild birds A summary of the overall HPAI situation in Europe is available here 			
Lumpy Skin Disease in Asia	No. of Signals: 02	No. of weeks in report: 13	Avg. Rating: 2.3 – 2.6
<ul style="list-style-type: none"> In Pakistan, ~54 animals have died due to LSD and over 20,000 animals have been infected, including 15,100 in Karachi 			
Influenza A (H5N6 & H9) in China & Cambodia	No. of Signals: 03	No. of weeks in report: 26	Avg. Rating: 2.0 – 2.5
<ul style="list-style-type: none"> China has reported two fatal human cases of avian influenza A(H5N6), both with onset dating November 2022; from 2014 to date, 73 human cases of influenza A(H5N6) have been reported by Mainland health authorities Cambodian health authorities have confirmed a human case of influenza A(H9) in a one-year-old girl from Siem Reap province's Chi Kraeng district 			
Chronic Wasting Disease in the USA	No. of Signals: 03	No. of weeks in report: 18	Avg. Rating: 2.0 – 2.4
<ul style="list-style-type: none"> A second case of CWD has been confirmed in Alabama, in a white-tailed deer in Lauderdale County Virginia has reported 3 positive CWD test results from surveillance of the 2021-2022 hunting season 			
Highly Pathogenic Avian Influenza in Africa	No. of Signals: 02	No. of weeks in report: 26	Avg. Rating: 2.0
<ul style="list-style-type: none"> South Africa and Niger have reported outbreaks of HPAI H5N1 in domestic poultry 			

SCIENTIFIC FINDINGS & REPORTS:

SARS-CoV-2

- Evidence of SARS-CoV-2 Related Coronaviruses Circulating in Sunda pangolins (*Manis javanica*) Confiscated From the Illegal Wildlife Trade in Vietnam [Read More](#)

Avian Influenza

- Spatiotemporal Dynamics, Evolutionary History and Zoonotic Potential of Moroccan H9N2 Avian Influenza Viruses from 2016 to 2021 [Read More](#)

African Swine Fever

- Multiple variants of African swine fever virus circulating in Vietnam [Read More](#)

Chronic Wasting Disease

- Increased Attack Rates and Decreased Incubation Periods of Chronic Wasting Disease in Raccoons after Passage through Meadow Voles [Read More](#)

Hepatitis E

- Orthohepevirus C* infection as an emerging cause of acute hepatitis in Spain: first report in Europe [Read More](#)

Herpesvirus

- Fatal Human Alphaherpesvirus 1 Infection in Free-Ranging Black-Tufted Marmosets in Anthropized Environments, Brazil, 2012–2019 [Read More](#)

Vectors & Vector Borne Disease

- Pennsylvania has confirmed higher than expected rates of Deer Tick Virus in ticks across multiple counties during the 2021 surveillance season including: Clearfield, Centre, and Wyoming (at each of these locations, the infection rate exceeded 80% of ticks sampled) [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.