

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

Highly Pathogenic Avian Influenza

- Over the past week, **Canada** has reported outbreaks of HPAI in: **Alberta (2)** and **British Colombia (3)**
- In **Quebec**, hundreds of dead northern gannets have been covering the shores of the **Magdalen Islands** for the last two weeks as a result of HPAI H5N1; unusual mortalities of common eiders and black-backed gulls were also documented in the **St. Lawrence Estuary**
- Yukon** has confirmed HPAI H5N1 in the carcasses of two waterfowl found in the southern region of the territory
- Over the past week, the USDA has reported outbreaks of HPAI in commercial poultry (**Pennsylvania**) and in backyard birds (**Georgia, Washington, Minnesota**)
- Alaska** has reported HPAI H5N1 in a fox, as well as eagles, found dead in the **Aleutian Islands**

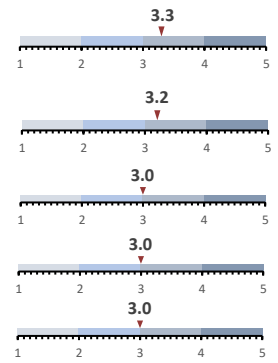
[Read More](#)

[Read More](#)

[Read More](#)

[Read More](#)

[Read More](#)



NEW EVENTS: (events rated > 2)

No new events to report this week

CONTINUED EVENTS: (events rated ≥ 2.4)

Event Title	No. of Signals	No. of weeks in report	Avg. Rating
Highly Pathogenic Avian Influenza in North America	09	22	2.0 – 3.3
<ul style="list-style-type: none"> Over the past week, Canada has reported outbreaks of HPAI in: Alberta (2) and British Colombia (3) In Quebec, hundreds of dead northern gannets have been covering the shores of the Magdalen Islands for the last two weeks as a result of HPAI H5N1; unusual mortalities of common eiders and black-backed gulls were also documented in the St. Lawrence Estuary Yukon has confirmed HPAI H5N1 in the carcasses of two waterfowl found in the southern region of the territory Over the past week, the USDA has reported outbreaks of HPAI in commercial poultry (Pennsylvania) and in backyard birds (Georgia, Washington, Minnesota) Alaska has reported HPAI H5N1 in a fox, as well as eagles, found dead in the Aleutian Islands 			
Monkeypox Worldwide	45	04	2.0 – 2.8
<ul style="list-style-type: none"> As of June 6 2022, the CDC is reporting 1019 confirmed cases of monkeypox across 29 different counties; these cases can be viewed on CDC's monkeypox and orthopoxvirus global outbreak map In Canada, Quebec has reported 82 cases of monkeypox (52 confirmed), mostly in Montreal, and has vaccinated ~500 individuals against the virus; Ontario has reported five confirmed cases of monkeypox in Toronto with another five under investigation; Alberta and British Colombia have both confirmed their first cases of monkeypox; and New Brunswick has reported its first suspected case of the virus 			
Influenza A (H9N2) in China	02	32	2.3 – 2.5
<ul style="list-style-type: none"> China has reported two human cases of influenza A(H9N2), one in a 5-year-old boy from Hunan Province and the other a 2-year-old from Guizhou Province 			
African Swine Fever in Asia	06	146	2.0 – 2.4
<ul style="list-style-type: none"> Hong Kong has reported ASF in wild boar in Sai Kung In India, Mizoram will soon declare the outbreak of ASF, which has affected over 50 villages/localities in seven districts and killed more than 37,000 pigs, a state disaster Nepal and Vietnam have reported outbreaks of ASF in domestic swine 			
Highly Pathogenic Avian Influenza in Europe	06	77	2.0 – 2.2
<ul style="list-style-type: none"> England and Hungary have reported HPAI H5N1 in domestic poultry The Netherlands, Spain, Scotland, and Norway have reported HPAI H5N1 in wild birds A summary of the overall HPAI situation in Europe is available here 			
Highly Pathogenic Avian Influenza in Asia	02	63	2.0
<ul style="list-style-type: none"> Iraq has reported an outbreak of HPAI H5N8 on a poultry farm southeast of Baghdad 			

SCIENTIFIC FINDINGS & REPORTS:

Influenza

- ◆ Adaptation of Two Wild Bird-Origin H3N8 Avian Influenza Viruses to Mammalian Hosts [Read More](#)
- ◆ Novel H7N7 avian influenza viruses detected in migratory wild birds in eastern China between 2018 and 2020 [Read More](#)

Monkeypox

- ◆ Pre-print: Monkeypox viruses circulate in distantly-related small mammal species in the Democratic Republic of the Congo [Read More](#)
- ◆ Work in progress: Initial observations about putative APOBEC3 deaminase editing driving short-term evolution of MPXV since 2017 [Read More](#)

SARS-CoV-2

- ◆ Transmission of SARS-CoV-2 from humans to animals and potential host adaptation [Read More](#)
- ◆ SARS-CoV-2 Seroconversion in an Adult Horse with Direct Contact to a COVID-19 Individual [Read More](#)

Other

- ◆ Association of antler asymmetry with hoof disease in elk [Read More](#)
- ◆ Foot-and-mouth disease virus localisation on follicular dendritic cells and sustained induction of neutralising antibodies is dependent on binding to complement receptors (CR2/CR1) [Read More](#)
- ◆ SHIC – Swine Disease Global Surveillance Report [Read More](#)
- ◆ SHIC – Swine Disease Domestic Monitoring Report [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.