

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

### Highly Pathogenic Avian Influenza

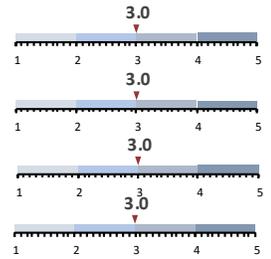
- Over the last week, **Canada** has reported HPAI in commercial poultry in **Quebec**
- Dead seals continue to be found on the shores of **Quebec**; about 15 dead harbour seals have tested positive for HPAI H5N1, with the 1st case detected in a grey seal last week
- The carcasses of thousands of migrant seabirds have recently washed up on the shores of **Newfoundland** in eastern **Canada** and preliminary findings showed that the birds died of HPAI
- HPAI is suspected in two **Nunavut** communities; one case in a live thick-billed murre on **Coats Island** near **Sanikiluaq**, and the second in a herring gull near **Cambridge Bay**

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### Influenza A

- One human infection with a novel influenza A H3N2v virus has been reported by **West Virginia** in a child <18 years, who participated in an agricultural fair and had direct contact with pigs (which presumptively tested positive for influenza A); there have been additional reports of respiratory illness among people who attended the same fair and further investigation is ongoing

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**NEW EVENTS: (events rated > 2)**



### Influenza A H3N2v in West Virginia

**Pathogen:** Virus ; **Transmission:** Direct contact, aerosol, fomite ; **Species affected in event:** Human, swine

① The first variant influenza virus infection of 2022 was reported by West Virginia and occurred in a person younger than 18 years who participated in an agricultural fair and had contact with pigs. The infected person was not hospitalized and is recovering from their illness. The variant virus is influenza A H3N2v, based on RT-PCR testing done at CDC. Pigs at this fair tested positive for influenza A. There have been reports of respiratory illness among other people who attended the same agricultural event. Specimens from other patients are being forwarded to CDC for additional testing. To date, no person-to-person spread of this virus has been confirmed. Recent reports of an increase in swine influenza outbreaks in pigs in the U.S. suggest the risk of exposure and infection with these viruses may be higher than usual this fair season, which can last into the fall.

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Avg. Rating	3.0
No. of Signal	4
No. of Ratings	2

## CONTINUED EVENTS: (events rated $\geq 2.4$ )

### **Highly Pathogenic Avian Influenza in North America** No. of Signals: 07 No. of weeks in report: 30 Avg. Rating: 2.0 – 3.0

- Over the last week, Canada has reported HPAI in commercial poultry in [Quebec](#)
- Dead seals continue to be found on the shores of [Quebec](#); about 15 dead harbour seals have tested positive for HPAI H5N1, with the 1st case detected in a grey seal last week
- The carcasses of thousands of migrant seabirds have recently washed up on the shores of [Newfoundland and Labrador](#) in eastern Canada and preliminary findings showed that the birds died of HPAI
- HPAI is suspected in two [Nunavut](#) communities; one case in a live thick-billed murre on Coats Island near Sanikiluaq, and the second in a herring gull near Cambridge Bay
- Over the last week, the [USDA](#) has reported outbreaks of HPAI H5N1 in backyard birds in Alaska

### **Anthrax in Canada** No. of Signals: 02 No. of weeks in report: 03 Avg. Rating: 2.7

- Parks Canada is monitoring an anthrax outbreak in remote areas of [Wood Buffalo National Park](#), finding at least 59 bison carcasses so far; lab results have confirmed the presence of anthrax in three of the dead bison

### **West Nile Virus in Canada** No. of Signals: 02 No. of weeks in report: 03 Avg. Rating: 2.5 – 2.7

- [Manitoba](#) has reported the province's first confirmed human case of West Nile virus this season, in a woman in her 60s who lives in the Interlake-Eastern Regional Health Authority; additionally, a pool of *Culex tarsalis* mosquitoes carrying WNV has been collected in Brandon (2nd positive pool to date)
- In Ontario, a batch of mosquitos in [Hamilton](#) have tested positive for West Nile Virus for the first time this year

### **Monkeypox worldwide** No. of Signals: 22 No. of weeks in report: 13 Avg. Rating: 2.0 – 2.7

- As of August 8 2022, the [CDC](#) is reporting 30,189 confirmed cases of monkeypox across 88 different countries
- [Canada](#) has reported 957 cases of monkeypox to date (2 in the Yukon, 81 cases in British Columbia, 16 in Alberta, 2 in Saskatchewan, 449 in Ontario, and 407 in Quebec)
- [Newfoundland and Labrador](#) has reported its first probable case of monkeypox
- In the US, two more children have tested positive for monkeypox, both from [Indiana](#), bringing the national toll among kids to four
- In [India](#), genome sequencing reports from two monkeypox patients in Kerala suggests they were infected with the A.2 strain of the virus, different from the one causing the monkeypox outbreaks in Europe

### **Japanese Encephalitis in Australia** No. of Signals: 01 No. of weeks in report: 12 Avg. Rating: 2.5

- In [Australia](#), health officials have recorded two cases of JEV in the Northern Territory, including a historical case from last year; one was a man in his 70s who caught the virus in May 2021 and the other a child in Top End who became symptomatic in June 2022

### **Highly Pathogenic Avian Influenza in Europe** No. of Signals: 14 No. of weeks in report: 86 Avg. Rating: 2.0 – 2.5

- [Belgium](#) has reported that at least two foxes (from 25 fox carcasses) have died due to HPAI after eating sick/dead birds
- [France](#), [Germany](#), the [Netherlands](#), and [Russia](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [Moldova](#) has reported HPAI (untyped) in domestic poultry in Balti
- [France](#), [Germany](#), and [Belgium](#) have reported cases of HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

### **Rabbit Hemorrhagic Disease in the US** No. of Signals: 03 No. of weeks in report: 10 Avg. Rating: 2.0 – 2.5

- [Washington](#) has confirmed the presence of RHDV2 in two Thurston County rabbits from a single household (this is the state's second confirmed detection of RHDV2)
- [Minnesota](#) has reported four dead pet rabbits linked to RHDV2 in Hennepin County, with one of the carcasses confirmed positive for the virus
- [Oregon](#) has confirmed RHDV2 in domestic rabbits living in Multnomah County after seven rabbits died over a 72-hour period

### **Highly Pathogenic Avian Influenza in Asia** No. of Signals: 02 No. of weeks in report: 70 Avg. Rating: 2.0

- The [Philippines](#) have reported HPAI H5N1 in domestic poultry

## SCIENTIFIC FINDINGS & REPORTS:

### Influenza

- ◆ Pre-print: Outbreak of Highly Pathogenic Avian Influenza H5N1 in New England Seals [Read More](#)
- ◆ Spatiotemporal changes in influenza A virus prevalence among wild waterfowl inhabiting the continental United States throughout the annual cycle [Read More](#)

### Vector and vector borne diseases

- ◆ Asian Longhorned Tick Area Expanding – new findings in northwest Arkansas [Read More](#)
- ◆ Lyme disease diagnoses increased 357 percent in rural areas over past 15 years, according to private insurance claims [Read More](#)
- ◆ Aedes aegypti reported in Contra Costa County, California [Read More](#)

### Monkeypox

- ◆ Epidemiologic and Clinical Characteristics of Monkeypox Cases — United States, May 17–July 22, 2022 [Read More](#)
- ◆ Monkeypox virus isolation from a semen sample collected in the early phase of infection in a patient with prolonged seminal viral shedding [Read More](#)
- ◆ Monkeypox Transmission Through Genital Excretions [Read More](#)

### Coronavirus

- ◆ A Global Open Access Dataset of Reported SARS-CoV-2 Events in Animals [Read More](#)
- ◆ Antibodies against SARS-CoV-2 Suggestive of Single Events of Spillover to Cattle, Germany [Read More](#)

### Other

- ◆ A Zoonotic Henipavirus in Febrile Patients in China [Read More](#)
- ◆ Over half of known human pathogenic diseases can be aggravated by climate change [Read More](#)
- ◆ Transmission, Strain Diversity, and Zoonotic Potential of Chronic Wasting Disease [Read More](#)
- ◆ Trafficked Malayan pangolins contain viral pathogens of humans [Read More](#)
- ◆ SHIC – August Global Swine Disease Monitoring Report [Read More](#)
- ◆ SHIC – August Domestic Swine Disease 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.