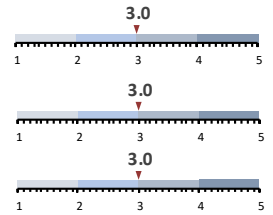


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

### Monkeypox

- ◆ **Nova Scotia** has confirmed its first case of monkeypox in a resident who recently travelled outside the province [Read More](#)
- ◆ **Brazil** has confirmed its first case of monkeypox in a dog, a 5-month-old puppy that lived in the same environment and had contact with a confirmed human case for the disease [Read More](#)
- ◆ The **French** dog identified as PCR positive for monkeypox did not show evidence of systemic infection; the results of serological testing were negative [Read More](#)



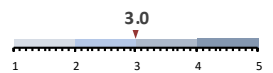
### Anthrax

- ◆ In **Saskatchewan**, anthrax has been confirmed as the cause of death of nine animals within the RM of Piapot #110 [Read More](#)
- ◆ In **Alberta**, anthrax has been confirmed in grazing cattle at 4 pastures and at one bison ranch; a total of 31 cattle and 3 bison have died, and all producers with the exception of one (with about 12 animals) have vaccinated their cattle against the disease since the outbreak began [Read More](#)



### Highly Pathogenic Avian Influenza

- ◆ Over the last week, **Canada** has reported one outbreak of HPAI in commercial poultry in **Alberta** [Read More](#)



### African Swine Fever

- ◆ Research conducted at **Kansas State University** has confirmed soybean products as among the highest risk feed ingredients for the transmission of ASF [Read More](#)



## NEW EVENTS: (events rated > 2)



### ■ Anthrax in Saskatchewan & Alberta

**Pathogen:** Bacteria ; **Transmission:** Direct contact, aerosol ; **Species affected in event:** Cattle, Bison

① In southern Saskatchewan, laboratory results have confirmed that the recent death of nine animals within the RM of Piapot #110, was due to anthrax. The RM is located within the southern part of the province just east of Maple Creek. Saskatchewan Agriculture is reminding producers to be on the lookout for anthrax in their animals and to be mindful about the conditions that can prompt the growth and spread of the bacteria. [Read More](#)

Avg. Rating	3.0
No. of Signal	3
No. of Ratings	3 - 4

In northern Alberta, warnings have been issued of an anthrax outbreak in MacKenzie County, with hot and dry conditions being favorable to the disease. Anthrax was confirmed in grazing cattle at 4 pastures and at one bison ranch. Since 14 Jul 2022, 31 cattle and 3 bison have died out of about 1700 animals. All producers with the exception of one (with about 12 animals) have vaccinated their cattle against the disease since the outbreak began. [Read More](#)

### ● Dengue fever in Florida

**Pathogen:** Virus ; **Transmission:** Vector borne ; **Species affected in event:** Human

The Florida Department of Health in Collier County has reported a human case of locally-acquired dengue fever. This is the sixth local transmission of dengue in Florida, five cases have previously been reported in Miami-Dade County. [Read More](#)

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

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

### **Highly Pathogenic Avian Influenza in North America** **No. of Signals: 08** **No. of weeks in report: 33** **Avg. Rating: 2.0 - 3.0**

- Over the last week, Canada has reported one outbreak of HPAI in commercial poultry in [Alberta](#)
- [Nunavut](#) has reported a third suspected case of HPAI, the case is in a herring gull on Tukarak Island near Sanikiluaq
- In the USA, [California](#) has reported its first outbreak of HPAI H5N1 in commercial poultry in Fresno County; HPAI has also killed >700 wild black vultures at a [Georgia](#) sanctuary that houses more than 1500 other animals

### **Monkeypox worldwide** **No. of Signals: 21** **No. of weeks in report: 16** **Avg. Rating: 1.3 – 3.0**

- As of August 29 2022, the [CDC](#) is reporting 48,844 confirmed cases of monkeypox across 99 different countries
- [Canada](#) has reported 1,228 cases of monkeypox to date (2 in the Yukon, 129 cases in British Columbia, 31 in Alberta, 3 in Saskatchewan, 1 in [Manitoba](#), 582 in Ontario, 478 in Quebec, 1 in [Nova Scotia](#), and 1 in New Brunswick)
- In [France](#), the dog identified as PCR positive for monkeypox did not show evidence of systemic infection; the results of serological testing were negative
- [Brazil](#) has confirmed its first case of monkeypox in a dog, a 5-month-old puppy that lived in the same environment and had contact with a confirmed human case for the disease

### **West Nile Virus in Canada** **No. of Signals: 04** **No. of weeks in report: 06** **Avg. Rating: 2.3 – 2.8**

- In Ontario, a dead Cooper's Hawk in [Lion's Head](#) tested positive for WNV; mosquitos caught in traps in [Peel](#) region and [Vaughan](#) have also tested positive for the virus
- In [Manitoba](#), four more mosquito pools (Brandon, Carman, Ste Anne, and Winnipeg) have tested positive for WNV; four birds also had WNV in the Winnipeg Region and one in the Interlake-Eastern Health Region

### **Influenza A (H1N2) in the USA** **No. of Signals: 02** **No. of weeks in report: 04** **Avg. Rating: 2.3 - 2.7**

- The CDC has reported a case of influenza A H1N2 variant in a person in [Ohio](#); the patient is <18 years of age, was not hospitalized, has recovered from their illness, and had attended an agricultural fair on the day of their illness onset
- A total of five human infections with variant influenza A viruses have been reported in the USA in 2022 (three H3N2v and two H1N2v)

### **African Swine Fever in Asia** **No. of Signals: 04** **No. of weeks in report: 147** **Avg. Rating: 1.7 – 2.5**

- [South Korea](#) has ordered a 48-hour standstill on pig farms and related facilities in the eastern Gangwon after confirmation of a second ASF case this year
- In [India](#), the Patiala district has confirmed ASF in a few swine samples and as a result the whole state of Punjab has been declared a controlled area
- [Vietnam](#) has temporarily suspended the use of its first home-grown ASF vaccine after dozens of pigs inoculated with the shots died this month

### **Rabbit Hemorrhagic Disease in the US** **No. of Signals: 01** **No. of weeks in report: 12** **Avg. Rating: 2.4**

- [Pennsylvania](#) has reported that two captive rabbits from a facility located in Fayette County have tested positive for RHDV2; this is the first documented report of RHDV2 in Pennsylvania

### **Highly Pathogenic Avian Influenza in Europe** **No. of Signals: 07** **No. of weeks in report: 89** **Avg. Rating: 2.0**

- The [Netherlands](#) and the [UK](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [Norway](#), [Spain](#), and the [Netherlands](#) have reported cases of HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

## SCIENTIFIC FINDINGS & REPORTS:

### African Swine Fever

- ◆ Stability of African swine fever virus in feed during environmental storage [Read More](#)

### Coronavirus

- ◆ Re-emergence of Severe Acute Diarrhea Syndrome Coronavirus (SADS-CoV) in Guangxi, China, 2021 [Read More](#)
- ◆ Multiple Introductions of SARS-CoV-2 Alpha and Delta Variants into White-Tailed Deer in Pennsylvania [Read More](#)

### Influenza

- ◆ A Threat from Both Sides: Multiple Introductions of Genetically Distinct H5 HPAI Viruses into Canada Via both East Asia-Australasia/Pacific and Atlantic Flyways [Read More](#)
- ◆ H5N8 Subtype Avian Influenza Virus Isolated from Migratory Birds Emerging in Eastern China Possessed a High Pathogenicity in Mammals [Read More](#)
- ◆ Evidence for Different Virulence Determinants and Host Response after Infection of Turkeys and Chickens with Highly Pathogenic H7N1 Avian Influenza Virus [Read More](#)

### Monkeypox

- ◆ High-Contact Object and Surface Contamination in a Household of Persons with *Monkeypox Virus* Infection — Utah, June 2022 [Read More](#)
- ◆ Pre-print: First detection of Monkeypox virus genome in sewersheds in France [Read More](#)
- ◆ Pre-print: Detection of Monkeypox virus DNA in the wastewater of an airport in Rome, Italy: expanding environmental surveillance to emerging threats [Read More](#)

### Other

- ◆ Pre-print: Mystery of fatal 'Staggering disease' unravelled: Novel rustrela virus causes severe encephalomyelitis in domestic cats [Read More](#)
- ◆ Predicting the potential for zoonotic transmission and host associations for novel viruses [Read More](#)
- ◆ SHIC-funded study looks at temperature and time required to inactivate PRRSV and PEDV on contaminated surfaces [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.