

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

African Swine Fever

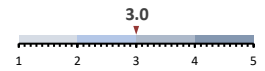
- ◆ The **Philippines** have reported an outbreak of ASF in domestic swine in Northern Mindanao
- ◆ **Malaysia** has reported additional cases of ASF in both domestic swine and wild boar in Sabah
- ◆ In **Germany**, the number of ASF cases in wild boar has now officially exceeded those of Belgium - 835 cases
- ◆ The first outbreak of ASF on a farm in 2021 in **Poland** was reported in Western Poland, with almost 16,000 pigs on-site

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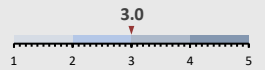
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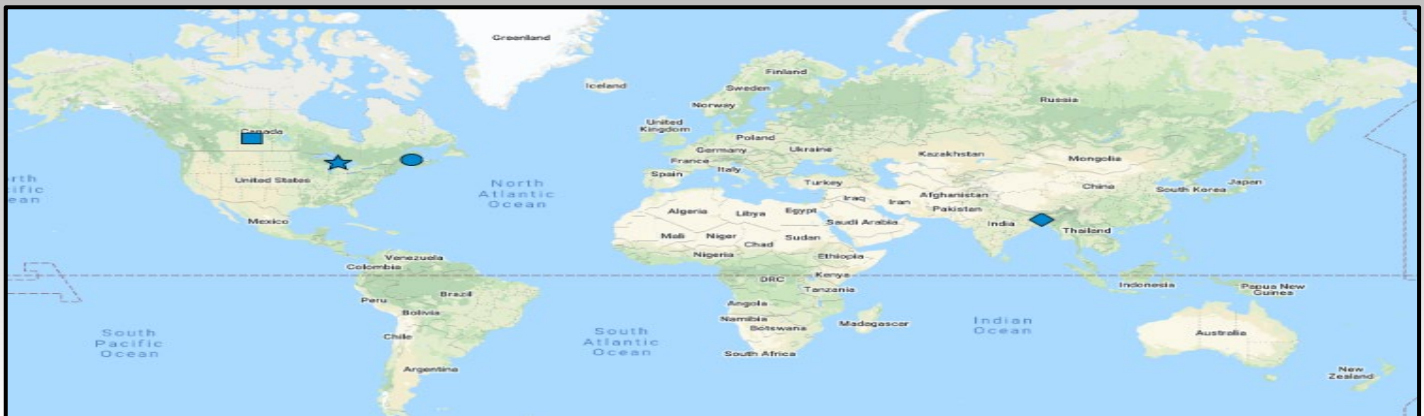
Highly Pathogenic Avian Influenza

- ◆ In the **UK**, tissue from 3 seals and 1 fox that died at a wildlife rescue center tested positive for HPAI H5N8

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NEW EVENTS: (events rated > 2)



★ Bovine Tuberculosis in Michigan

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

① The Michigan Department of Agriculture is reporting a case of bovine TB that was confirmed to be present in a Cheboygan County beef herd, located in Michigan's Accredited Free Zone. This is the first recorded case of a bovine TB-positive cattle herd in Cheboygan County; however, the disease was detected in two free-ranging white-tailed deer from the county in 2010. This case was found through routine surveillance testing.

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| | |
|----------------|-----|
| Avg. Rating | 2.8 |
| No. of Signal | 1 |
| No. of Ratings | 5 |

■ Equine Infectious Anemia in Saskatchewan

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

① Officials have identified four Saskatchewan premises with EIA. Three of the premises are in the rural municipality of Kinistino (total of 23 cases from January – March), with the fourth premises located in Duck Lake (1 case in March). All four premises are epidemiologically linked.

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|----------------|-----|
| Avg. Rating | 2.6 |
| No. of Signal | 1 |
| No. of Ratings | 5 |

● Undiagnosed Disease in New Brunswick

Pathogen: Unknown; **Transmission:** Unknown ; **Species affected in event:** Human

① New Brunswick public health is closely monitoring a cluster of 43 cases (5 deaths) of patients with neurological symptoms of an unknown etiology. The very first case was identified in 2015, then 11 cases occurred in 2019, and 24 cases in 2020. A number of potential causes are currently being examined.

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|----------------|-----|
| Avg. Rating | 2.3 |
| No. of Signal | 1 |
| No. of Ratings | 5 |

◆ Undiagnosed Swine Disease in India

Pathogen: Unknown; **Transmission:** Unknown ; **Species affected in event:** Swine

① In Nagaland, India (Pungro and Kiphire) a number of undiagnosed swine deaths have resulted in the collection of blood samples for testing and diagnosis. Symptoms are stated as lack of appetite with a rise in body temperature, 5-10 days after farrowing followed by respiratory distress and death.

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|----------------|-----|
| Avg. Rating | 2.3 |
| No. of Signal | 1 |
| No. of Ratings | 3 |

CONTINUED EVENTS: (events rated ≥ 2.4)

| | | | |
|--|---------------------------|------------------------------------|-------------------------------|
| African Swine Fever in Asia | No. of Signals: 08 | No. of weeks in report: 100 | Avg. Rating: 2.3 - 3.0 |
| <ul style="list-style-type: none"> The Philippines have reported an outbreak of ASF in domestic swine in Northern Mindanao Malaysia has reported additional cases of ASF in both domestic swine and wild boar in Sabah Vietnam has reported outbreaks of ASF in domestic swine in Nghe An and Ha Tinh China has reported outbreaks of ASF in domestic swine in Sichuan Sheng and Hubei Sheng | | | |
| African Swine Fever in Europe | No. of Signals: 04 | No. of weeks in report: 91 | Avg. Rating: 2.0 – 3.0 |
| <ul style="list-style-type: none"> In Germany, the number of ASF cases in wild boar has now officially exceeded those of Belgium - 835 cases The first outbreak of ASF on a farm in 2021 in Poland was reported in Western Poland, with almost 16,000 pigs on-site Russia has reported cases of ASF in both domestic swine and wild boar | | | |
| Highly Pathogenic Avian Influenza in Europe | No. of Signals: 07 | No. of weeks in report: 20 | Avg. Rating: 2.0 - 3.0 |
| <ul style="list-style-type: none"> In the UK, tissue from 3 seals and 1 fox that died at a wildlife rescue center tested positive for HPAI H5N8, identical to avian-origin H5N8 viruses detected from mute swans that had died and been tested from the same wildlife rescue center. Comorbidities were not investigated. Croatia, Hungary, and Ukraine have reported HPAI H5N8 in wild birds Hungary has also report HPAI H5N5 in wild birds The Czech Republic has reported a new outbreak of HPAI H5N8 at a mixed poultry farm in Zlin A summary of the overall HPAI situation in Europe is available here | | | |
| COVID-19 Worldwide (as of March 21, 2021) | No. of Signals: 42 | No. of weeks in report: 46 | Avg. Rating: 1.0 - 2.6 |
| <ul style="list-style-type: none"> Worldwide, there have been 122,946,827 confirmed cases of COVID-19 with 2,729,172 deaths reported In Canada, there have been 933,785 cases of COVID-19 with 22,676 deaths reported The UK SARS-CoV-2 variant (B.1.1.7) has been detected for the 1st time in a dog and a cat from the same household in Brazos County, Texas A member of the WHO investigative team says wildlife farms in southern China are the most likely source of the COVID-19 pandemic | | | |
| Highly Pathogenic Avian Influenza in Asia | No. of Signals: 07 | No. of weeks in report: 19 | Avg. Rating: 2.0 - 2.3 |
| <ul style="list-style-type: none"> Nepal has reported an outbreak of HPAI H5N8 in domestic poultry in Mid Western Taiwan has reported a case of HPAI H5N5 in a wild swan in Chiayi India has reported another outbreak of HPAI, this on in Maharashtra's Amravati district, kill ~5800 birds Japan has confirmed an outbreak of HPAI at a poultry farm in Tochigi Prefecture South Korea has reported an outbreak of HPAI H5N8 at an egg farm that raises 550,000 chickens in Chungju, 147km south of Seoul | | | |

SCIENTIFIC FINDINGS:

- ◆ Histoplasmosis acquired in Alberta, Canada: an epidemiological and genomic study [Read More](#)
- ◆ Movement of Dogs from China may Pose Risk to North American Livestock Production [Read More](#)
- ◆ Pre-print: The B.1.351 and P.1 variants extend SARS-CoV-2 host range to mice [Read More](#)
- ◆ Pre-print: Myocarditis in naturally infected pets with the British variant of COVID-19 [Read More](#)
- ◆ Pre-print: Zoonotic spillover of SARS-CoV-2: mink-adapted virus in humans [Read More](#)
- ◆ Isolation, characterization and transcriptome analysis of porcine deltacoronavirus strain HNZK-02 from Henan Province, China [Read More](#)
- ◆ Potential Distribution of *Aedes (Ochlerotatus) scapularis* (Diptera: Culicidae): A Vector Mosquito New to the Florida Peninsula [Read More](#)
- ◆ Macrophage-specific responses to human- and animal-adapted tubercle bacilli reveal pathogen and host factors driving multinucleated cell formation [Read More](#)
- ◆ Besnoitiosis in donkeys: an emerging parasitic disease of equids in Italy [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.