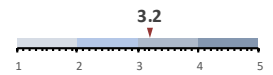


SUMMARY: RELEVANT EVENTS (includes all events rated ≥ 3.0)

Highly Pathogenic Avian Influenza

◆ The **USA** has confirmed two additional findings of HPAI H5N1 in wild birds – one in Colleton County, South Carolina and one in Hyde County, North Carolina

[Read More](#)



Powassan virus

◆ **Pennsylvania** has detected an unusually high prevalence [92% (23/25)] of the deer tick virus in adult tick samples recently taken from Lawrence Township Recreational Park in Clearfield County

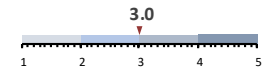
[Read More](#)



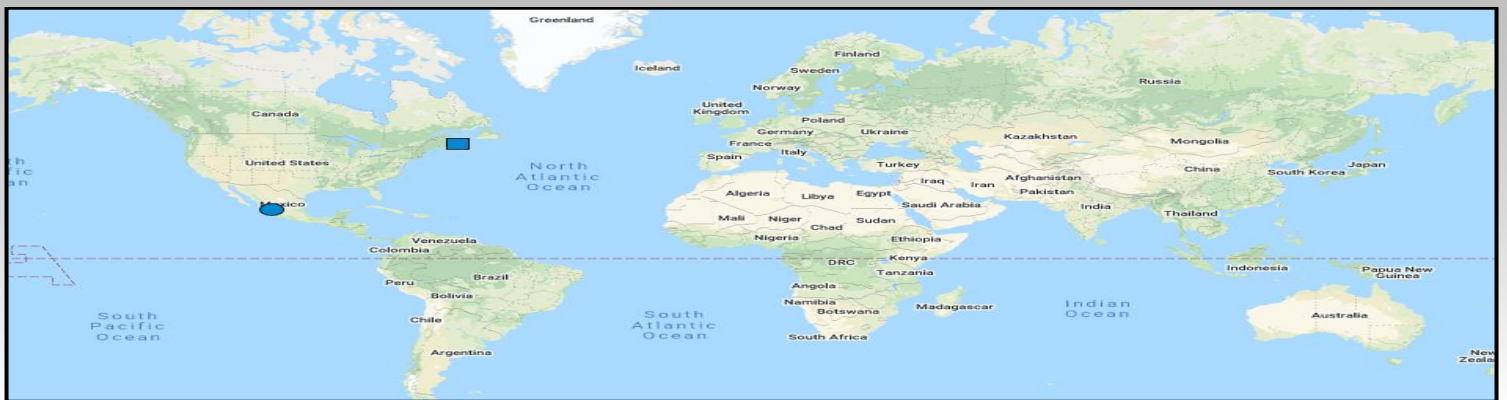
Undiagnosed bird deaths

◆ In **P.E.I.**, large numbers of crows in Charlottetown are being found sick or dead in the Victoria Park area; tests have confirmed it isn't avian influenza, and the suspicion is that it could be a type of reovirus

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NEW EVENTS: (events rated > 2)



Undiagnosed crow deaths in Charlottetown, P.E.I. **Pathogen:** Unknown ; **Transmission:** Unknown ; **Species affected in event:** Avian

① A team at the Atlantic Veterinary College in P.E.I. is working to identify why large numbers of crows in Charlottetown are being found sick or dead in the Victoria Park area. Scientists with the college estimate about 200 birds have been brought in over the past several weeks. Mortality at this time of year happens regularly, but a few dozen dead crows is usually the norm. Tests have confirmed it isn't avian influenza, and the suspicion is that it could be a type of reovirus, something that's caused crow deaths in the past. [Read More](#)

| | |
|----------------|-----|
| Avg. Rating | 3.0 |
| No. of Signal | 1 |
| No. of Ratings | 34 |

Pig mortality in Mexican slaughterhouse - circovirus type II, Mycoplasma hyopneumoniae, Pasterella multocida, salmonella

Pathogen: Multiple ; **Transmission:** Multiple ; **Species affected in event:** Porcine
① Mexico has ruled out the presence of African swine fever and classical swine fever viruses, after a mortality event the last week of December at a slaughterhouse in Tepic, Nayarit. According to the Ministry of Agriculture and Rural Development, the presence of infectious agents such as circovirus type II, Mycoplasma hyopneumoniae and Pasterella multocida, as well as salmonella, was confirmed. [Read More](#)

| | |
|----------------|-----|
| Avg. Rating | 2.2 |
| No. of Signal | 1 |
| No. of Ratings | 6 |

CONTINUED EVENTS: (events rated ≥ 2.4)

| | | | |
|--|---------------------------|------------------------------------|-------------------------------|
| Highly Pathogenic Avian Influenza in North America | No. of Signals: 02 | No. of weeks in report: 03 | Avg. Rating: 3.0 – 3.2 |
| <ul style="list-style-type: none"> The USA has confirmed two additional findings of HPAI H5N1 in wild birds – one in Colleton County, South Carolina and one in Hyde County, North Carolina | | | |
| African Swine Fever in Europe | No. of Signals: 07 | No. of weeks in report: 124 | Avg. Rating: 2.0 – 2.8 |
| <ul style="list-style-type: none"> Italy has introduced further measures in two northern regions to contain a recent ASF outbreak, including the immediate slaughter of pigs and a six-month restocking ban Germany, Hungary, and Latvia have reported cases of ASF in wild boar | | | |
| African Swine Fever in Asia | No. of Signals: 07 | No. of weeks in report: 134 | Avg. Rating: 2.0 – 2.7 |
| <ul style="list-style-type: none"> Hong Kong has reported an outbreak of ASF in a wild boar in the northern part of the territory In Malaysia, Sabah has been hit with another outbreak of ASF this time in the district of Penampang In Thailand, ASF has been detected in livestock at three pig farms in Prachuap Khiri Khan | | | |
| Highly Pathogenic Avian Influenza in Europe | No. of Signals: 13 | No. of weeks in report: 58 | Avg. Rating: 2.0 – 2.6 |
| <ul style="list-style-type: none"> The Netherlands have reported another H5N1 infected mammal with severe neurological symptoms, this time a polecat found in South Holland In France, a total of 2.5 million birds will be culled as the southwest of the country faces several outbreaks of avian influenza Spain has reported an outbreak of HPAI H5N1 on a fattening turkey farm in the province of Segovia, north of Madrid The Isle of Man has reported its first outbreaks of HPAI H5N1, the first in geese in Sulby and the second in feral chickens in Tholt-y-Will England has reported an outbreak of HPAI H5N1 in farmed turkeys in Tattenhall, Cheshire West and Chester Slovakia and Norway have reported HPAI H5N1 in wild birds Denmark has reported HPAI H5N8 in wild birds A summary of the overall HPAI situation in Europe is available here | | | |
| Influenza A (H9N2 & H5N6) in China | No. of Signals: 05 | No. of weeks in report: 22 | Avg. Rating: 2.2 – 2.4 |
| <ul style="list-style-type: none"> China has reported 4 new cases of human infection with avian influenza A(H9N2); to date, 24 cases of avian influenza A(H9N2) have been reported to WHO from China in 2021, and a total of 65 cases since December 2015 China has also reported five additional human cases of avian influenza A(H5N6) from December 2021, bringing the total cases reported last year to 36; and the total cases in China since 2014 to 63 | | | |
| COVID-19 Worldwide (as of Jan 24, 2022) | No. of Signals: 07 | No. of weeks in report: 61 | Avg. Rating: 1.0 – 2.4 |
| <ul style="list-style-type: none"> Worldwide, there have been 349,641,119 confirmed cases of COVID-19 with 5,592,266 deaths reported In Canada, there have been 2,921,385 cases of COVID-19 with 32,597 deaths reported In Hong Kong, multiple pet store hamsters have tested positive for SARS-CoV-2 | | | |
| Highly Pathogenic Avian Influenza in Africa | No. of Signals: 04 | No. of weeks in report: 21 | Avg. Rating: 2.0 |
| <ul style="list-style-type: none"> South Africa has reported HPAI H5N1 in domestic poultry in Gauteng Togo has reported an outbreak of HPAI H5N1 in laying hens in Maritime Namibia has reported HPAI in wild birds at Walvis Bay | | | |

SCIENTIFIC FINDINGS & REPORTS:

- ◆ Pennsylvania detects high prevalence of deer tick virus (DTV) in adult tick samples in Clearfield County [Read More](#)
- ◆ Co-infection of chickens with H9N2 and H7N9 avian influenza viruses leads to emergence of reassortant H9N9 virus with increased fitness for poultry and a zoonotic potential [Read More](#)
- ◆ Higher-order structures of the foot-and-mouth disease virus RNA-dependent RNA polymerase required for genome replication [Read More](#)
- ◆ Porcine Deltacoronaviruses: Origin, Evolution, Cross-Species Transmission and Zoonotic Potential [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.