

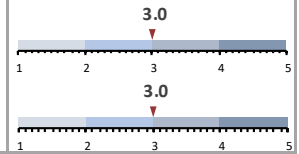
SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

Highly Pathogenic Avian Influenza

- Over the last week, **Canada** has reported outbreaks of HPAI H5N1 in commercial poultry in: **Quebec (1)**
- Prince Edward Island** has reported wholly Eurasian H5N5 in crows; **Manitoba** has reported H5Nx in a blue winged teal

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White Nose Syndrome

- In **Alberta**, the fungus that causes WNS (*Pseudogymnoascus destructans*) was detected along the **Red Deer River** near **Dinosaur Provincial Park** in 2022; this discovery has raised fears that in the coming years the death rate in bats could have corresponding effects on insect pests (wheat midges and diamond back moths) and would result in greater insecticide use for pest control

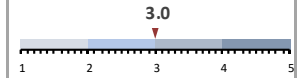
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Porcine Reproductive and Respiratory Syndrome

- PRRS Lineage 1C, previously concentrated in the **Midwestern US**, has moved eastwards; in 2023, **Missouri** has had the largest number of detections of this strain, and Lineage 1C variant sequences were also detected in: **Indiana, Ohio, Tennessee** and **Pennsylvania**

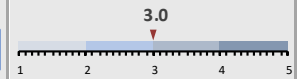
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Porcine Circovirus

- The latest Swine Health Information Center report shows an increase in Porcine Circovirus type 2 in the **US** in the adult/sow category in recent months; the cause of the increase may be linked to an increase in monitoring/surveillance and potentially vaccine compliance/effectiveness

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NEW EVENTS: (events rated > 2)

No new events to report this week

CONTINUED EVENTS: (events rated ≥ 2.4)

- Porcine Reproductive and Respiratory Syndrome in the USA** **No. of Signals: 01** **No. of weeks in report: 16** **Avg. Rating: 3.0**
 • PRRS Lineage 1C, previously concentrated in the [Midwestern US](#), is moving eastwards; in 2023, Missouri has had the largest number of detections of this strain and Lineage 1C variant sequences were detected in: Indiana, Ohio, Tennessee and Pennsylvania
- White Nose Syndrome in Canada** **No. of Signals: 01** **No. of weeks in report: 06** **Avg. Rating: 3.0**
 • In [Alberta](#), the fungus that causes WNS (*Pseudogymnoascus destructans*) was detected along the Red Deer River near Dinosaur Provincial Park in 2022; this discovery has raised fears that in the coming years the death rate in bats could have corresponding effects on insect pests (wheat midges and diamond back moths) and would result in greater insecticide use for pest control
- Porcine Circovirus in the USA** **No. of Signals: 02** **No. of weeks in report: 03** **Avg. Rating: 2.3 – 3.0**
 • The latest Swine Health Information Center report shows an increase in Porcine Circovirus type 2 in the [US](#) in the adult/sow category in recent months; the cause of the increase may be linked to an increase in monitoring/surveillance and potentially vaccine compliance/effectiveness
 • An increase in Porcine Circovirus type 2 was initially reported in [June 2022](#)
- Highly Pathogenic Avian Influenza in North America** **No. of Signals: 08** **No. of weeks in report: 68** **Avg. Rating: 2.0 – 3.0**
 • Over the last week, [Canada](#) has reported outbreaks of HPAI H5N1 in commercial poultry in: Quebec (1)
 • [Canada](#) has also reported wholly Eurasian H5N5 in crows in PEI and H5Nx in a blue winged teal in Manitoba
 • The first case of HPAI H5N1 in a feral cat has been reported in [Ontario](#), as well as additional cases in skunks, foxes, and a raccoon
 • Over the last week, the [USDA](#) has reported outbreaks of HPAI H5N1 in WOA non-poultry in: Indiana
 • The [USDA](#) has updated their list of mammals infected with HPAI H5, bringing the total to 176 (with the majority being foxes and skunks)
- Chronic Wasting Disease in Canada** **No. of Signals: 01** **No. of weeks in report: 08** **Avg. Rating: 2.7**
 • In [Alberta](#), data from the 2022-23 hunting season shows a CWD province-wide prevalence of 23.4%; control measures and surveillance activities (collection program/freezers) seem to be decreasing
- African Swine Fever in Europe** **No. of Signals: 09** **No. of weeks in report: 143** **Avg. Rating: 2.0 – 2.7**
 • [Greece](#) and [Romania](#) have reported outbreaks of ASF in domestic swine
 • [Czech Republic](#), [Ukraine](#), [Romania](#), [Moldova](#), [Latvia](#), and [Poland](#) have reported cases of ASF in wild boar
- Highly Pathogenic Avian Influenza in South America** **No. of Signals: 06** **No. of weeks in report: 24** **Avg. Rating: 2.0 – 2.7**
 • A video shows dogs attacking a sea lion in Antofagasta, [Chile](#); the sea lion appeared to be sick
 • WOA reports summarizing HPAI outbreaks in domestic poultry in: [Argentina](#), [Bolivia](#), [Chile](#), [Ecuador](#), [Uruguay](#), and [Peru](#)
 • WOA reports summarizing cases of HPAI in wild birds in: [Argentina](#), [Bolivia](#), [Chile](#), [Colombia](#), [Costa Rica](#), [Ecuador](#), [Uruguay](#), [Peru](#), and [Panama](#)
 • [Uruguay](#) has started vaccinating poultry against HPAI with vaccines from the US; an additional batch of vaccines is due from Mexico shortly
- Highly Pathogenic Avian Influenza in Europe** **No. of Signals: 11** **No. of weeks in report: 124** **Avg. Rating: 2.0 – 2.3**
 • In the UK, numerous cases of HPAI have been confirmed at [North Cave Wetlands](#) (a Yorkshire Wildlife Trust site), which has the region's largest colony of black-headed gulls; an outbreak of HPAI has also been reported in [commercial poultry](#) in the region
 • Germany has recently reported to WOA HPAI H5N1 in a [red foxes](#) and a [South American coati](#)
 • [Czech Republic](#) and [Wales](#) have reported outbreaks of HPAI in domestic poultry
 • [Poland](#), [Austria](#), and the [Czech Republic](#) have reported HPAI H5N1 in wild birds
 • A summary of the overall HPAI situation in Europe is available [here](#)

SCIENTIFIC FINDINGS & REPORTS:

Coronavirus

- ◆ Pre-print: Characterization of the SARS-CoV-2 BA.5.5 and BQ.1.1 Omicron Variants in Mice and Hamsters [Read More](#)

Influenza

- ◆ Pre-print: High pathogenicity avian influenza (H5N1) in Northern Gannets: Global spread, clinical signs, and demographic consequences [Read More](#)
- ◆ UKHSA Technical risk assessment as of 30 January 2023 for avian influenza (human health): influenza A H5N1 2.3.4.4b [Read More](#)

Vector and Vector Borne Disease

- ◆ First molecular confirmation of multiple zoonotic vector-borne diseases in pet dogs and cats of Hong Kong SAR [Read More](#)

Other

- ◆ SHIC – Domestic Disease Monitoring Report May 2023 [Read More](#)
- ◆ SHIC – Global Disease Monitoring Report May 2023 [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.