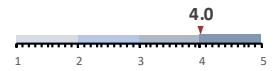


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

### Monkeypox

On September 25, 2022, there was an alert of piglets presenting smallpox-type eruptions among 16 animals (2 suspected cases including 1 death) in **Tshuapa Province, DRC**; the pig sample tested positive for monkeypox and investigations around the pigsty revealed 5 suspected human cases and another affected piggery nearby **\*\*Note this information comes from an unofficial source and remains unconfirmed, it should be interpreted with caution.**

[Read More](#)



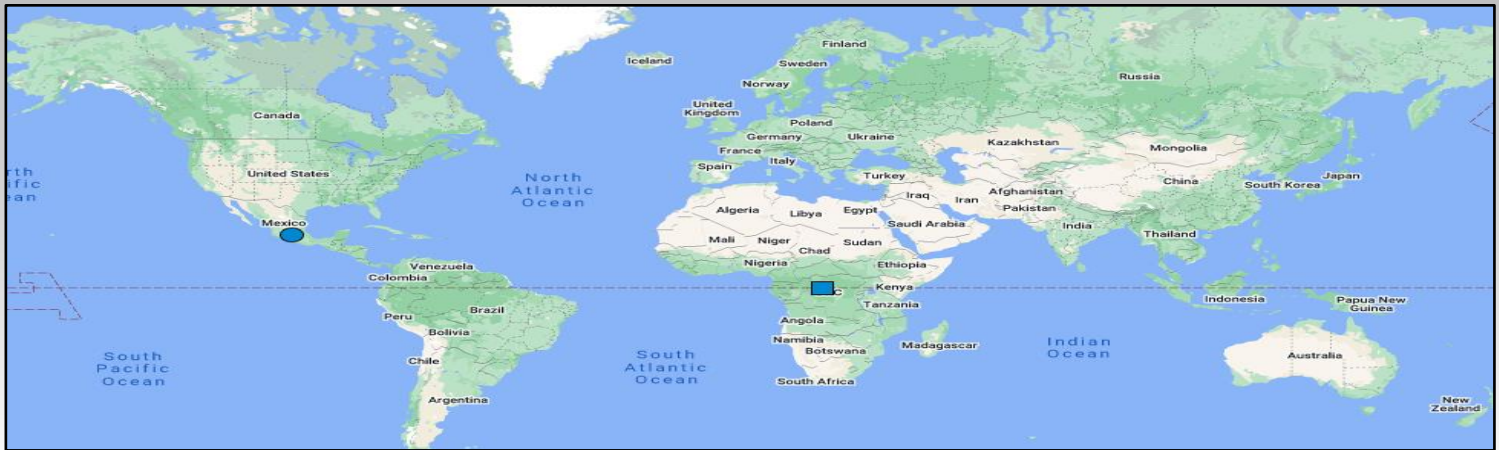
### Highly Pathogenic Avian Influenza

Over the last week, Canada has reported outbreaks of HPAI in commercial poultry in: **British Columbia(1)**; in non-commercial poultry in: **British Columbia(1), Ontario(2), and Quebec(1)**; and in non-commercial non-poultry in: **British Columbia(1), Alberta(2), Saskatchewan(1), and Quebec(1)**

[Read More](#)



## NEW EVENTS: (events rated > 2)



### Monkeypox detected in piglets in the DRC

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

① Monkeypox has been reported in domestic animals in the DRC, Tshuapa Province, Boende Health Zone. On Sept 25, 2022 there was an alert of piglets presenting smallpox-type eruptions among 16 animals (2 suspected cases including 1 death). There were six confirmed monkeypox cases in humans in the same health area in the previous week. The pig sample tested positive for monkeypox. Investigations around the pigsty revealed 5 suspected human cases (3 piggers and 2 veterinarians) and another affected piggery nearby. Investigations are ongoing and the full results will be published [Read More](#)

**\*\*Note this information comes from an unofficial source and remains unconfirmed, it should be interpreted with caution.**

Avg. Rating	4.0
No. of Signal	1
No. of Ratings	25

### Highly Pathogenic Avian Influenza H5N1 in gyrfalcon in Mexico

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

① Mexico has confirmed its first case of HPAI H5N1. The isolation was carried out in a gyrfalcon (Falco rusticolus) that fed on wild game birds in the Lerma River basin, State of Mexico. Additional sampling is underway in the region and at this time there are no more suspected cases. [Read More](#)

Avg. Rating	2.6
No. of Signal	1
No. of Ratings	6

## CONTINUED EVENTS: (events rated ≥ 2.4)

<b><u>Highly Pathogenic Avian Influenza in North America</u></b>	<b><u>No. of Signals: 05</u></b>	<b><u>No. of weeks in report: 40</u></b>	<b><u>Avg. Rating: 2.0 - 3.0</u></b>
<ul style="list-style-type: none"> <li>Over the last week, <a href="#">Canada</a> reported outbreaks of HPAI in commercial poultry in: British Columbia(1); in non-commercial poultry in: British Columbia(1), Ontario(2), and Quebec(1); and in non-commercial non-poultry in: British Columbia(1), Alberta(2), Saskatchewan(1), and Quebec(1)</li> <li>Over the last week, the <a href="#">USDA</a> has reported outbreaks of HPAI H5N1 in commercial poultry in: California, Utah, and South Dakota; as well as backyard poultry in: Alaska, Arkansas, Colorado, Florida, Oklahoma, New Jersey, Michigan, South Dakota, Wyoming, Kentucky, and Pennsylvania</li> </ul>			
<b><u>Rabbit Hemorrhagic Disease in Canada</u></b>	<b><u>No. of Signals: 01</u></b>	<b><u>No. of weeks in report: 06</u></b>	<b><u>Avg. Rating: 2.8</u></b>
<ul style="list-style-type: none"> <li><a href="#">Calgary</a> has reported a large number of deaths in feral rabbits, this time in the Nose Hill Park area, likely due to RHDV2; since the end of August, there have been seven confirmed cases RHDV2 in Calgary</li> </ul>			
<b><u>Influenza A (H9N2) in China</u></b>	<b><u>No. of Signals: 01</u></b>	<b><u>No. of weeks in report: 36</u></b>	<b><u>Avg. Rating: 2.6</u></b>
<ul style="list-style-type: none"> <li><a href="#">China</a> has reported a human case of influenza A H9N2 in a 1-year-old boy from Guangdong Province, with onset on August 1, 2022</li> </ul>			
<b><u>Classical Swine Fever in Brazil</u></b>	<b><u>No. of Signals: 01</u></b>	<b><u>No. of weeks in report: 04</u></b>	<b><u>Avg. Rating: 2.6</u></b>
<ul style="list-style-type: none"> <li><a href="#">Brazil</a> has reported an outbreak of CSF in domestic swine in Piauí</li> </ul>			
<b><u>Ebola Virus in Uganda</u></b>	<b><u>No. of Signals: 02</u></b>	<b><u>No. of weeks in report: 03</u></b>	<b><u>Avg. Rating: 2.3 - 2.4</u></b>
<ul style="list-style-type: none"> <li>As of Oct 16, 2022, <a href="#">Uganda</a> has confirmed 58 cases of Sudan Ebola virus and 19 deaths; a 21-day lockdown has been imposed on the central Uganda districts of Mubende and Kassanda to contain the Ebola outbreak</li> </ul>			
<b><u>Highly Pathogenic Avian Influenza in Europe</u></b>	<b><u>No. of Signals: 12</u></b>	<b><u>No. of weeks in report: 96</u></b>	<b><u>Avg. Rating: 2.0 - 2.3</u></b>
<ul style="list-style-type: none"> <li>HPAI H5N1 outbreaks have surged across the <a href="#">UK</a> this October, with ~22 outbreaks reported in poultry so far this month (compared to Oct 2021 where only 1 outbreak was reported) and 36 cases in wild birds (compared to 6 in Oct 2021)</li> <li><a href="#">France</a> is also seeing an increase in the number of cases of AI in livestock and wildlife; since Aug 1, 2022, 20 outbreaks of HPAI have been reported on poultry farms, as well as 24 outbreaks on other holdings (backyard poultry, zoos, ornamental birds...etc.)</li> <li><a href="#">Germany</a>, <a href="#">England</a>, and the <a href="#">Netherlands</a> have reported HPAI in domestic poultry</li> <li>The <a href="#">Faroe Islands</a>, <a href="#">Belgium</a>, and <a href="#">Italy</a> have reported HPAI in wild birds</li> <li>A summary of the overall HPAI situation in Europe is available <a href="#">here</a></li> </ul>			
<b><u>Highly Pathogenic Avian Influenza in Africa</u></b>	<b><u>No. of Signals: 02</u></b>	<b><u>No. of weeks in report: 34</u></b>	<b><u>Avg. Rating: 2.0</u></b>
<ul style="list-style-type: none"> <li><a href="#">Reunion</a> has reported an outbreak of HPAI H5N1 in domestic poultry in Saint Paul</li> </ul>			

## SCIENTIFIC FINDINGS & REPORTS:

### Coronavirus

- ◆ Pre-print: SARS-CoV-2 infection in domestic rats after transmission from their infected owner [Read More](#)

### Influenza

- ◆ Pre-print: Increased public health threat of avian-origin H3N2 influenza virus during evolution in dogs [Read More](#)
- ◆ Different virulence of G4 and G5 Eurasian avian-like H1N1 swine influenza viruses in mice [Read More](#)
- ◆ Assessment of poultry rearing practices and risk factors of H5N1 and H9N2 virus circulating among backyard chickens and ducks in rural communities [Read More](#)
- ◆ H6N8 avian influenza virus in Antarctic seabirds demonstrates connectivity between South America and Antarctica [Read More](#)

### Monkeypox

- ◆ Air and surface sampling for monkeypox virus in a UK hospital: an observational study [Read More](#)
- ◆ Monkeypox Virus Detection in Different Clinical Specimen Types [Read More](#)

### Other

- ◆ Human-to-human transmission of severe fever with thrombocytopenia syndrome virus through potential ocular exposure to infectious blood [Read More](#)
- ◆ FAO/UNEP/WHO/WOAH – One Health Joint Plan of Action 2022-2026 [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.