

WEEKLY INTELLIGENCE REPORT

January 16th 2023 - January 22nd 2023

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

Influenza A (H5)

WHO has released an update on the Ecuador human H5 case - as of January 17, 2023 the patient remains hospitalized, under isolation, and with non-invasive mechanical ventilation

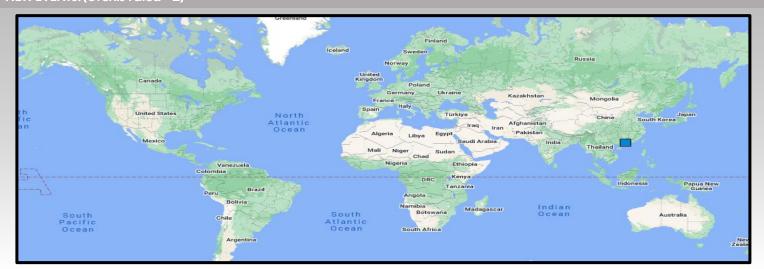


Highly Pathogenic Avian Influenza

- Montana has reported three juvenile grizzly bears tested positive for HPAI virus this past fall; these were the first documented cases of HPAI in grizzly bears
- A publication regarding the HPAI H5N1 outbreak in a mink farm in **Spain** has been released indicating that an uncommon mutation (T271A) in the PB2 gene with potential public health implications was found; onward mink transmission of the virus may have occurred on the affected farm



NEW EVENTS: (events rated > 2)



Unidentified illness in China

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

① A leaked memo addressed to Nigerian health authorities dated January 16, 2023 showed the Chinese CDC raised an alarm on December 13, 2022 regarding the symptoms of an unidentified disease following an outbreak leading to the death of residents in China, including three Nigerians. The initial clinical analysis ruled out COVID-19, but the symptoms of the disease include dry throat, fever, and difficulty in breathing. Hospitals in Guangzhou have been inundated with patients having the disease, with 7 Nigerians said to be in critical condition as a result. The NCDC is considering reactivating its COVID-19 isolation center.

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

^{**}Note this information remains unconfirmed, it should be interpreted with caution.



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CONTINUED EVENTS: (events rated ≥ 2.4)

Influenza A (H5) in Ecuador

No. of Signals: 02 No. of weeks in report: 02 Avg. Rating: 3.0

• WHO has released an update on the <u>Ecuador</u> human H5 case - as of January 17, 2023 the patient remains hospitalized, under isolation, and with non-invasive mechanical ventilation

Highly Pathogenic Avian Influenza in North America No. of Signals: 08 No. of weeks in report: 53 Avg. Rating: 1.7 – 3.0

- Over the last week, Canada has reported outbreaks of HPAI H5N1 in commercial poultry in: British Columbia(2)
- Over the last week, the <u>USDA</u> has reported outbreaks of HPAI H5N1 in commercial poultry in: Kansas, Virginia, and Tennessee; in WOAH poultry in: Texas; and in WOAH non-poultry in: Ohio, Washington, and California
- Montana has reported three juvenile grizzly bears tested positive for HPAI virus this past fall marking the first documented cases of HPAI in grizzly bears; since then, a grizzly bear in Nebraska has also tested positive for HPAI
- Mexico has reported that the outbreak of Al H7N3 in farms in La Laguna and Southeast Coahuila is under control; the outbreak affected 550 farms and ~6 million birds

Porcine Reproductive and Respiratory Syndrome in the USA No. of Signals: 02 No. of weeks in report: 14 Avg. Rating: 2.0 - 2.8

• PRRS lineage 1C RFLP 1-2-4 detection has continued to increase across the <u>USA</u>, with 264 sequences in 2022, more than 62.7% of the total number of sequences detected from 2009 to 2021 (n=421); since November 2022, there has been an increase in the number of detections in lowa, and the East Mississippi states, raising concern a bout this ongoing winter season

Highly Pathogenic Avian Influenza in Europe No. of Signals: 07 No. of weeks in report: 109 Avg. Rating: 2.0 - 2.8

- Last year, Scotland reported HPAI in four otters identified as part of routine surveillance; HPAI was also reported in four foxes in England
- Russia, Germany, and the Czech Republic reported HPAI H5N1 in domestic poultry
- The Czech Republic, Belgium, Hungary, and Sweden reported HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available here

African Swine Fever in Europe

No. of Signals: 07 No. of weeks in report: 141 Avg. Rating: 1.4 - 2.7

- <u>Greece</u> has reported ASF in a dead female wild boar in the municipal unit of Petritsi, Serres; the last time Greece reported cases of ASF was in February 2020, at a small pig farm in the same region
- Serbia and Moldova have reported ASF in domestic swine
- Hungary, Latvia, North Macedonia, and Italy have reported cases of ASF in wild boar

Canine Influenza in North America

No. of Signals: 01

No. of weeks in report: 02

No. of weeks in report: 10

Avg. Rating: 2.5

Avg. Rating: 2.1 - 2.3

• Canine influenza H3N2 has been reported in the metro Atlanta area, Georgia, in Fulton and DeKalb counties, with 3 shelters reporting confirmed cases

<u>Highly Pathogenic Avian Influenza in South America</u> <u>No. of Signals: 02</u>

• <u>Ecuador</u> has reported new cases of HPAI in domestic birds in Tungurahua

• Honduras has declared a national 90-day health emergency after Al was confirmed in waterfowl, including brown pelicans, at La Ceiba beach in Atlantida department and in Alvarado Lagoon in Puerto Cortes, Cortes department

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 04

No. of weeks in report: 86

Avg. Rating: 2.0

- Japan has reported an outbreak of HPAI H5N2 in domestic poultry in Ooita
- The Philippines have reported an outbreak of HPAI H5N1 in domestic poultry in Central Luzon



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SCIE	ENTIFIC FINDINGS & REPORTS:
Cord	<u>onavirus</u>
	Pre-print: The Ecology of Viruses in Urban Rodents with a Focus on SARS-CoV-2
<u>Influ</u>	enza
*	Highly pathogenic avian influenza A(H5N1) virus infection in farmed minks, Spain, October 2022 Read More
*	The role of transforming growth factor beta-1 protein in <i>Escherichia coli</i> secondary infection induced by H9N2 avian influenza virus in chickens
Mpc	<u></u>
♦	Monkeypox Virus Evolution before 2022 Outbreak Read More
<u>Vect</u>	ors and Vector-borne Diseases
	Using Zoos as Sentinels for Re-Emerging Arboviruses: Vector Surveillance during an Outbreak of Epizootic Hemorrhagic Disease at the Read Mare
	Minnesota Zoo
	Epidemic of lumpy skin disease in Pakistan Read More
	Powassan Virus Lineage I in Field-Collected <i>Dermacentor variabilis</i> Ticks, New York, USA Read More
<u>Oth</u>	<u>er</u>
	Novel Species of Brucella Causing Human Brucellosis, French Guiana Read More
	Autochthonous Angiostrongylus cantonensis Lungworms in Urban Rats, Valencia, Spain, 2021 Read Mare
	Genetic characteristics and pathogenicity of avian pox virus for a new host, Cherry Valley breeder ducks in China Read More
	A novel gyrovirus is abundant in yellow-eyed penguin (Megadyptes antipodes) chicks with a fatal respiratory disease 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 fromtwenty-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.