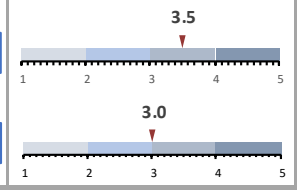
WEEKLY INTELLIGENCE REPORT

September 11th 2023 – September 17th 2023

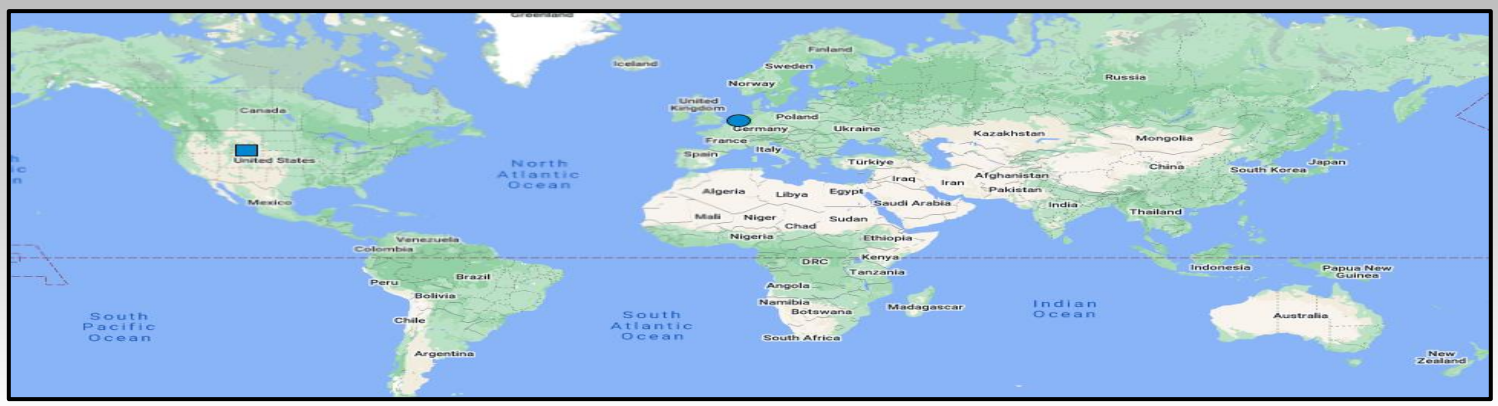
SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

Highly Pathogenic Avian Influenza

- **Canada** has reported an outbreak of HPAI in commercial poultry in **Warner County, Alberta**; this is the first case of HPAI in commercial poultry since May 2023 — *Read More*
- **Argentina** has confirmed HPAI H5 in sea lions and elephant seals (new affected species) in **Comodoro Rivadavia, Rada Tilly** and **Punta Tombo, Chubu** — *Read More*



NEW EVENTS: (events rated > 2)



Leptospirosis in Wyoming, USA

Pathogen: bacteria; **Transmission**: direct contact (urine), fomite; **Species affected in event**: canine, human

ⓘ Wyoming has reported that several dogs and a person in Laramie County have recently been diagnosed with leptospirosis. The human case is an individual with occupational exposure to animals and is believed to be Wyoming's first on record. *Read More*

Avg. Rating	2.3
No. of Signal	1
No. of Ratings	4

Influenza A H1N1 in the Netherlands

Pathogen: virus; **Transmission**: direct contact, fomite, aerosol ; **Species affected in event**: human

ⓘ On September 2, 2023, the Netherlands confirmed a human case of infection with a swine-origin influenza A(H1N1) variant virus in the province of North Brabant. This is the first human infection caused by influenza A(H1N1)v virus reported in the Netherlands in 2023. The case is an adult with no underlying medical conditions and no history of occupational exposure to animals. This case was picked up as part of routine surveillance of respiratory illnesses. Based on the available information, there is no clear indication of the source of infection, and no direct contact with pigs was reported. As of September 7, there were no symptomatic contacts of this case and no further detections have been reported in routine surveillance. Thus, there was no evidence of person-to-person transmission and the case is considered as a sporadic human case of influenza A(H1N1)v. *Read More*

Avg. Rating	2.0 - 2.2
No. of Signal	3
No. of Ratings	5 - 8

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America — No. of Signals: 03 — No. of weeks in report: 82 — Avg. Rating: 2.3 - 3.5

- Canada has reported an outbreak of HPAI in commercial poultry in Warner County, Alberta; this is the first case of HPAI in commercial poultry since May 2023

Highly Pathogenic Avian Influenza in South America — No. of Signals: 12 — No. of weeks in report: 43 — Avg. Rating: 1.6 – 3.0

- Argentina has confirmed HPAI H5 in sea lions and elephant seals (new affected species) in Comodoro Rivadavia, Rada Tilly and Punta Tombo, Chubu
- Uruguay has reported additional cases of HPAI H5 in sea lions and fur seals
- Brazil has reported additional cases of HPAI H5N1 in wild birds
- Peru has retrospectively reported two additional outbreaks of HPAI in domestic poultry from February and March 2023

Bovine Tuberculosis in Canada — No. of Signals: 01 — No. of weeks in report: 03 — Avg. Rating: 2.9

- As of August 25, 2023 there have been 10 confirmed cases of bovine TB in Saskatchewan; live animal testing will continue through the fall

African Swine Fever in Europe — No. of Signals: 18 — No. of weeks in report: 149 — Avg. Rating: 1.8 – 2.8

- Sweden continues to report ASF in wild boar; as of September 17, 2023, samples from 20 dead wild boars have tested positive for ASF in Fagersta
- In Italy, despite abnormal mortality rates on a farm in Zinasco, neither the producer nor the veterinary practitioner reported a suspicion of ASF; movements of animals even took place to slaughterhouses in Lombardy, Veneto and Emilia-Romagna
- Italy plans to cull ~38 000 wild boar in Campania to reduce the spread of ASF
- Serbia, Russia, and Romania have reported ASF in domestic swine
- Poland, Italy, Hungary, and Romania have reported ASF in wild boar
- In Russia, ASF was found in an unauthorized landfill in the Kursk region

***Brucella canis* in the UK** — No. of Signals: 02 — No. of weeks in report: 02 — Avg. Rating: 2.3 – 2.7

- The UK has reported 54 cases (50 index cases and 4 contact) of *Brucella canis* from April to June 2023; 47 of the incidents were associated with dog importation, with more than half of the cases (25 cases) coming from Romania
- A guide dogs charity in Leamington Spa has recently reported *Brucella canis* in two of its dogs following the initiation of a screening program this past spring

Bluetongue Virus in the Netherlands — No. of Signals: 02 — No. of weeks in report: 02 — Avg. Rating: 2.3 – 2.7

- The bluetongue virus found on sheep farms in the Netherlands has been confirmed as serotype 3, the most recently reported serotype in Europe, and presumably entered from Tunisia to Italy; the source of infection with this serotype in the Netherlands is unknown

Highly Pathogenic Avian Influenza in Europe — No. of Signals: 16 — No. of weeks in report: 143 — Avg. Rating: 1.8 – 2.6

- The Finnish Food Authority has ordered all animals (foxes, raccoon dogs, and mink) on fur farms infected with HPAI to be euthanized
- Denmark has reported HPAI H5N1 in seals and mute swans in Avnø in South Zealand
- The UK has reported HPAI on two separate game farms in Staffordshire and Cheshire, at an animal rescue centre in Worthing, and wild birds on the Farne Islands and Tyninghame
- Scotland has reported HPAI in commercial poultry near Mintlaw
- Sweden, Slovenia, and Germany have reported HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available here

West Nile Virus in Canada — No. of Signals: 01 — No. of weeks in report: 09 — Avg. Rating: 2.5

- In Ontario, Sudbury has reported a human case of West Nile Virus, the first case since 2017

Highly Pathogenic Avian Influenza in Africa — No. of Signals: 01 — No. of weeks in report: 55 — Avg. Rating: 2.0

- South Africa has reported outbreaks of HPAI H7N6 beginning ~May 2023 that have led to the loss of ~quarter of the country's poultry, leading to a shortage of chicken and eggs which may persist until the end of October 2023

SCIENTIFIC FINDINGS & REPORTS:

African Swine Fever

- The diffusion metrics of African swine fever in wild boar Read More

Influenza

- Influenza A(H5N1) Virus Infections in 2 Free-Ranging Black Bears (*Ursus americanus*), Quebec, Canada Read More
- Investigation of risk factors for introduction of highly pathogenic avian influenza H5N1 infection among commercial turkey operations in the United States, 2022: a case-control study Read More
- The neuropathogenesis of highly pathogenic avian influenza H5Nx viruses in mammalian species including humans Read More
- Interpretation of molecular detection of avian influenza A virus in respiratory specimens collected from live bird market workers in Dhaka, Bangladesh: infection or contamination? Read More
- Multivalent Dynamic Colocalization of Avian Influenza Polymerase and Nucleoprotein by Intrinsically Disordered ANP32A Reveals the Molecular Basis of Human Adaptation Read More
- The genomic landscape of swine influenza A viruses in Southeast Asia Read More
- Understanding the divergent evolution and epidemiology of H3N8 influenza viruses in dogs and horses Read More
- Centre for Health Protection Avian Influenza Report Read More

Vectors and Vector-borne Diseases

- ECDC: Surveillance, prevention and control of West Nile virus and Usutu virus infections in the EU/EEA Read More

Other

- Detection of Hepatitis E Virus in Rabbits and Rabbit Meat from Slaughterhouses in Hebei Province of China Read More
- Systemic epigenome-wide association study of elk treponeme-associated hoof disease Read More
- UKHSA HAIRS risk assessment: *Brucella canis* Read More