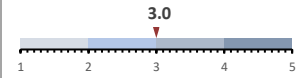


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

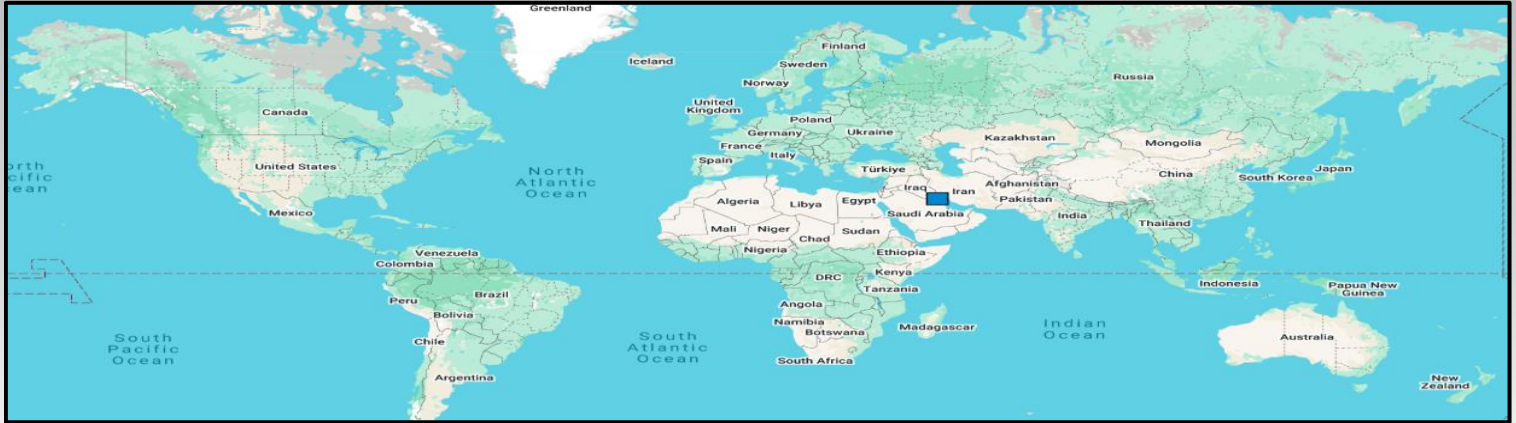
### Highly Pathogenic Avian Influenza

- ◆ As of April 28, 2025, the USDA has reported influenza A(H5N1) in 1032 dairy herds across 17 states: **Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Arizona(3), Kansas(4), South Dakota(7), Minnesota(9), New Mexico(9), Nevada(11), Iowa(13), Utah(13), Texas(27), Michigan(31), Colorado(64), Idaho(71) and California(765)**
  - The recent outbreaks were reported from **Idaho(6) and Arizona(1)**

[Read More](#)



## NEW EVENTS: (events rated > 2)



### Foot and Mouth Disease SAT-1 in Kuwait

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

① Kuwait has reported outbreaks of FMD SAT-1 across 10 dairy farms in Al Jahrah. The first case was identified on April 6, 2025 and the infection has spread to 10 farms, with ~1800 cows infected. This has been reported to WOAHA as a new strain of FMD in the country, however, there is a report of the strain occurring in late [1960s](#).

[Read More](#)

Avg. Rating	2.0 - 2.2
No. of Signal	2
No. of Ratings	5 - 6

## CONTINUED EVENTS: (events rated ≥ 2.4)

### Highly Pathogenic Avian Influenza in North America

**No. of Signals: 05**

**No. of weeks in report: 165**

**Avg. Rating: 2.0 – 3.0**

- [Canada](#) has not reported any outbreaks of HPAI in poultry over the past week
- HPAI is suspected to have caused the deaths of >60 wild birds found dead along the shores of Lake Huron in [Ontario](#)
- Over the last week, the [USDA](#) has reported outbreaks of HPAI in WOAHA poultry in: North Dakota(1); in WOAHA non-poultry in: Minnesota(1); and in live bird markets in: New York(1)
- As of April 28, 2025, the [USDA](#) has reported influenza A (H5N1) in 1032 dairy herds across 17 states; Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Arizona(3), Kansas(4), South Dakota(7), [Minnesota](#)(9), New Mexico(9), Nevada(11), Iowa(13), Utah(13), Texas(27), [Michigan](#)(31), [Colorado](#)(64), Idaho(71), and California(765); the recent outbreaks were reported from Idaho(6) and Arizona(1)
- Wastewater surveillance dashboards for influenza can be found at the [CDC](#) and Stanford University's [WastewaterSCAN](#)

### Highly Pathogenic Avian Influenza in Asia

**No. of Signals: 03**

**No. of weeks in report: 185**

**Avg. Rating: 2.0 - 2.3**

- [Japan](#) has reported HPAI in seal carcasses found in Hokkaido; this is the first time AI has been found in seals in Japan
- [Japan](#) has also reported cases of HPAI in wild birds in Kagoshima
- [South Korea](#) has reported additional outbreaks of HPAI in domestic poultry

### Highly Pathogenic Avian Influenza in Europe

**No. of Signals: 08**

**No. of weeks in report: 221**

**Avg. Rating: 1.7 - 2.0**

- [Hungary](#) has reported HPAI H5N1 in domestic birds
- The [Netherlands](#), [Germany](#), [Lithuania](#), and [Finland](#) have reported HPAI H5N1 in wild birds
- A summary of the overall HPAI situation in Europe is available [here](#)

## SCIENTIFIC FINDINGS, REPORTS, AND GUIDANCE:

### African Swine Fever

- ◆ A synthetic genomics-based African swine fever virus engineering platform [Read More](#)

### Chronic Wasting Disease

- ◆ The strain properties of Korean and North American CWD prions are indistinguishable [Read More](#)

### Influenza

- ◆ Emergence and interstate spread of highly pathogenic avian influenza A(H5N1) in dairy cattle in the United States [Read More](#)
- ◆ Risk assessment of 2024 cattle H5N1 using age-stratified serosurveillance data [Read More](#)
- ◆ Detection of Avian Influenza Virus in Pigeons [Read More](#)
- ◆ The American Public’s Disengagement With Highly Pathogenic Avian Influenza (HPAI): Considerations for Vaccination and Dietary Changes [Read More](#)
- ◆ Seasonal Influenza Vaccination in People who Have Contact With Birds [Read More](#)
- ◆ Predicting Population Consequences of an Epidemic of High Pathogenicity Avian Influenza on Southern Elephant Seals [Read More](#)
- ◆ Pre-print: Estimates of epidemiological parameters for H5N1 influenza in humans: a rapid review [Read More](#)
- ◆ Molecular and ecological determinants of mammalian adaptability in avian influenza virus [Read More](#)
- ◆ Avian influenza A(H5N6) virus detected during live-poultry market surveillance linked to a human infection in Changsha, China, from 2020 to 2023 [Read More](#)
- ◆ High Prevalence of Influenza D Virus Infection in Swine, Northern Ireland [Read More](#)

### Vectors and Vector Borne Diseases

- ◆ Multiple Introductions of the Asian Longhorned Tick (*Haemaphysalis longicornis*) to the United States Revealed Using Mitogenomics [Read More](#)
- ◆ A new spotted fever group Rickettsia genotype in *Haemaphysalis leporispalustris* from Maine, USA [Read More](#)
- ◆ Prevalence and molecular epidemiology of the novel equine parasite *Theileria haneyi* in China [Read More](#)
- ◆ Unraveling the relationships between midge abundance and incidence, microbial communities, and soil and water properties in a protected natural tallgrass prairie [Read More](#)
- ◆ Pre-print: Investigation of the global transportation of Culicoides biting midges, vectors of livestock and equid arboviruses, from flower-packing plants in Kenya [Read More](#)

### Other

- ◆ First report of human *Mycobacterium bovis* infection in a veterinary laboratory worker in the Republic of Korea [Read More](#)
- ◆ Comprehensive Survival Analysis of Alveolar Echinococcosis Patients, University Hospital Zurich, Zurich, Switzerland, 1973–2022 [Read More](#)
- ◆ New York State - Global Health Update Report - 04/24/2025 [Read More](#)
- ◆ France - Weekly Bulletin for International Animal Health Surveillance 29/04/2025 [Read More](#)
- ◆ ECDC - Communicable disease threats report, 19 - 25 April 2025, week 17 [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.