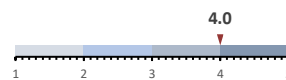


## SUMMARY: RELEVANT SIGNALS (includes all signals rated $\geq 3.0$ )

### Highly Pathogenic Avian Influenza

- Over the last week, **Canada** has reported outbreaks of HPAI in commercial poultry in: **Alberta(1)** and **Saskatchewan(1)**

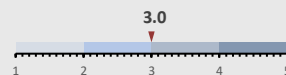
[Read More](#)



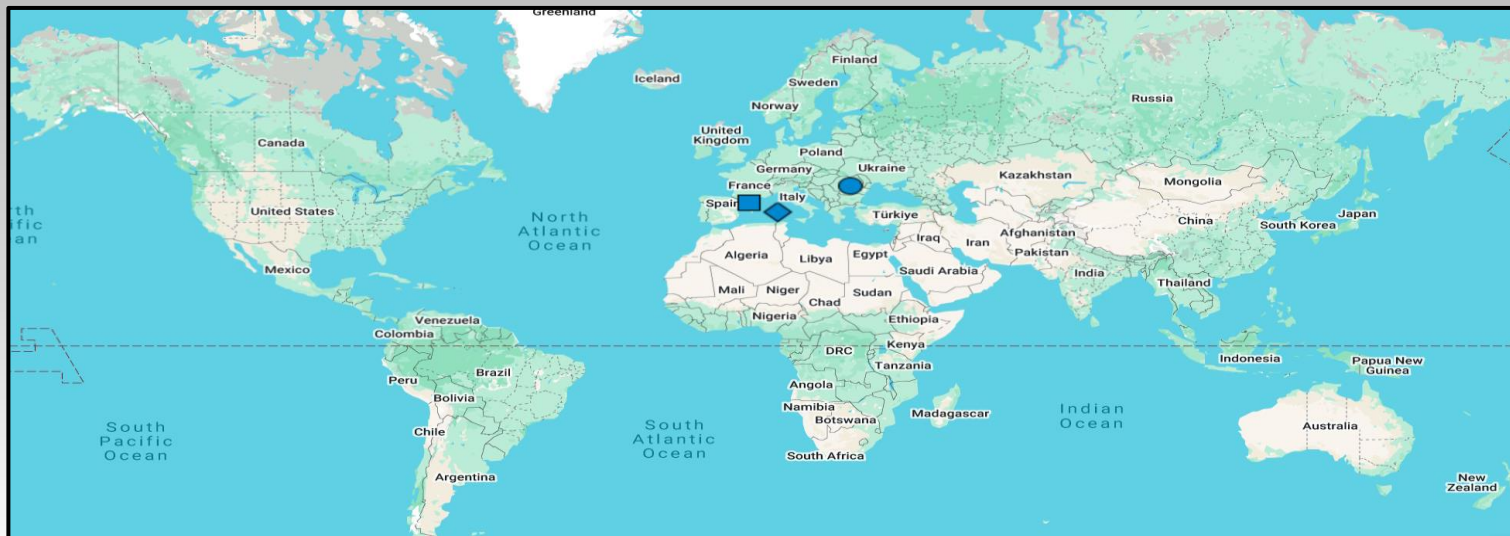
### Lumpy Skin Disease

- Spain** has reported cases of LSD for the first time; cases were reported in cattle in **Girona**, northeastern Spain, close to its border with France

[Read More](#)



## NEW EVENTS: (events rated $> 2$ )



### Lumpy Skin Disease in Spain

**Pathogen:** virus; **Transmission:** vector; **Species affected in event:** cattle

Spain has reported its first cases of LSD in the country. Three cases of LSD were initially reported in cattle in Girona, in northeastern Spain, close to the French border. A second outbreak has now also been reported in the same region, with emergency vaccination planned for October 8, 2025.

[Read More](#)

Avg. Rating	3.0
No. of Signal	1
No. of Ratings	3

### Bluetongue serotype 5 in Italy

**Pathogen:** virus; **Transmission:** vector; **Species affected in event:** sheep

Italy has reported its first cases of BTV-5 in the country. Three cases were reported in sheep in Sardinia, with the source of introduction unknown.

[Read More](#)

Avg. Rating	2.7
No. of Signal	1
No. of Ratings	3

### Bluetongue serotype 3 in Romania

**Pathogen:** virus; **Transmission:** vector; **Species affected in event:** cattle

Romania has reported its first cases of BTV-3 in the country. A total of ten cases have been reported in cattle in Calnic.

[Read More](#)

Avg. Rating	2.5
No. of Signal	1
No. of Ratings	2

## CONTINUED EVENTS: (events rated $\geq 2.4$ )

### Highly Pathogenic Avian Influenza in North America

**No. of Signals: 10**

**No. of weeks in report: 186**

**Avg. Rating: 1.8 - 4.0**

- Over the last week, [Canada](#) has reported outbreaks of HPAI in commercial poultry in: Alberta(1) and Saskatchewan(1)
- Over the last week, the [USDA](#) has reported outbreaks of HPAI in commercial poultry in: Minnesota(2), Utah(2), Iowa(1), and Wisconsin(1); and in WOA Non-poultry in: Montana(1), North Carolina(1), and Virginia(1)
- In [Wisconsin](#), an endangered whooping crane has died as a result of HPAI
- As of October 6, 2025, the [USDA](#) has reported influenza A (H5N1) in 1080 dairy herds across 18 states; Nebraska(1), Wyoming(1), North Carolina(1), Ohio(1), Oklahoma(2), Kansas(4), Arizona(5), South Dakota(7), [Minnesota](#)(9), New Mexico(9), Nevada(11), Iowa(13), Utah(13), Texas(30), [Michigan](#)(31), [Colorado](#)(64), Idaho(107), and California(771); no new outbreaks were reported over the last week
- A veterinarian from [California](#) has shared some lessons learned from the H5N1 dairy response
- [Mexico](#) has reported two outbreaks of HPAI H5N1 in fighting birds in Nezahualcóyotl
- Wastewater surveillance dashboards for influenza can be found at the [CDC](#) and Stanford University's [WastewaterSCAN](#)

### New World Screwworm in Central America & Mexico

**No. of Signals: 08**

**No. of weeks in report: 39**

**Avg. Rating: 2.0 - 2.8**

- [Mexico](#) has reported 52 human cases of NWS infestation, the majority of which have been reported from Chiapas
- [Mexico](#) has reported a 32% increase in NWS cases in animals in September
- [Honduras](#) has reported 197 human cases of NWS infestation so far this year
- The FDA has conditionally approved [Dectomax-CA1 injectable](#) for the prevention and treatment of NWS infestations in animals

### Highly Pathogenic Avian Influenza in Europe

**No. of Signals: 18**

**No. of weeks in report: 243**

**Avg. Rating: 2.0**

- [Italy](#), [Germany](#), and [Spain](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- The [Czech Republic](#) has reported HPAI H5N1 in domestic non-poultry
- [Latvia](#), [Hungary](#), [Norway](#), [Germany](#), [Austria](#), and [Poland](#) 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

- Emergence of African swine fever in Bangladesh: key findings from an outbreak investigation [Read More](#)

### Coronavirus

- Permissiveness of American bison to infection with severe acute respiratory syndrome coronavirus-2 [Read More](#)

### Influenza

- PB2 and NP of North American H5N1 virus drive immune cell replication and systemic infections [Read More](#)
- Pre-print: H5N1 Influenza A is now promiscuous in host range and has improved replication in mammals [Read More](#)
- Pre-print: The potential of H5N1 viruses to adapt to bovine cells varies throughout evolution [Read More](#)
- The Efficacy of Inactivated Vaccine Against H5 Clade 2.3.4.4b Highly Pathogenic Avian Influenza Virus in Turkeys [Read More](#)
- Characterization of a novel chicken-derived H3N3 avian influenza virus detected in China in 2023: Pathogenicity and immunogenicity [Read More](#)
- Detection of avian influenza virus in the alien invasive African sacred ibis (*Threskiornis aethiopicus*) in Italy [Read More](#)
- Temporal Dynamics and Surveillance of Highly Pathogenic H5 Avian Influenza in Wild Birds in Northern Serbia (2016–2025) [Read More](#)
- Influenza D Virus Circulation Among Bovines, Swine, Equines, and Wild Boars in Italy: A Sero-Epidemiological Study [Read More](#)

### Vectors and Vector Borne Diseases

- WHO - Chikungunya virus disease - Global situation [Read More](#)
- One Health approach uncovers emergence and dynamics of Usutu and West Nile viruses in the Netherlands [Read More](#)

### Other

- First identification of Tusavirus in calf intestinal tissue suggests interspecies transmission and genomic variation [Read More](#)
- New York Global Health Update Report - 10/02/2025 [Read More](#)
- France - Weekly Bulletin for International Animal Health Surveillance 07/10/2025 [Read More](#)
- ECDC - Communicable disease threats report, September 27 - 3 October 2025, week 40 [Read More](#)
- European Commission Animal Disease Information System – Weekly Outbreak Summary [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.