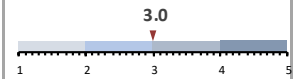


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

### Highly Pathogenic Avian Influenza

- Journal Article: Rapid evolution of A(H5N1) influenza viruses after intercontinental spread to North America

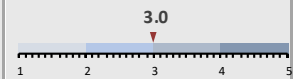
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### Foot and Mouth Disease

- Iraq has reported 14 additional outbreaks of FMD serotype SAT2 throughout the country, bringing the total number of outbreaks to 50

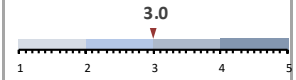
[Read More](#)



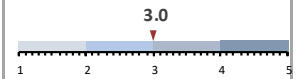
### African Swine Fever

- Journal Article: Highly lethal genotype I and II recombinant African swine fever viruses detected in pigs
- In Italy, ASF was confirmed on a domestic pig farm and in four wild boar in Calabria; this is the third region of the country to be affected since the incursion in January 2022 in Piemonte and Lazio

[Read More](#)



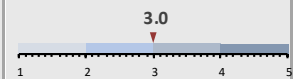
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### Vesicular Stomatitis

- Eighteen new VSV-affected premises have been identified in California, bringing the total to 44 (14 confirmed positive, 30 suspect); all confirmed cases have been the New Jersey virus serotype

[Read More](#)



## NEW EVENTS: (events rated > 2)

No new events to report this week

## CONTINUED EVENTS: (events rated ≥ 2.4)

### Vesicular Stomatitis in the USA

**No. of Signals: 02**

**No. of weeks in report: 02**

**Avg. Rating: 3.0**

- Eighteen new VSV-affected premises have been identified in [California](#), bringing the total to 44 (14 confirmed positive, 30 suspect); all confirmed cases have been the New Jersey virus serotype

### Foot and Mouth Disease in Eurasia

**No. of Signals: 03**

**No. of weeks in report: 03**

**Avg. Rating: 2.3 – 3.0**

- [Iraq](#) has reported 14 additional outbreaks of FMD serotype SAT2 throughout the country, bringing the total number of outbreaks to 50

### African Swine Fever in Europe

**No. of Signals: 06**

**No. of weeks in report: 144**

**Avg. Rating: 2.0 – 3.0**

- In [Italy](#), ASF was confirmed on a domestic pig farm and in four wild boar in Calabria; this is the third region of the country to be affected since the incursion in January 2022 in Piemonte and Lazio
- [Latvia](#), [Poland](#), and [Italy](#) have reported cases of ASF in wild boar
- [Russia](#) has reported ASF in domestic swine

### Highly Pathogenic Avian Influenza in North America

**No. of Signals: 04**

**No. of weeks in report: 72**

**Avg. Rating: 2.0 – 2.8**

- [Canada](#) has not reported any outbreaks of HPAI H5N1 in domestic poultry over the past week
- Approximately 40,000 wild birds have washed up on the shores of [Eastern Canada](#) from April to October 2022, with ~5,500 in New Brunswick alone
- The [USDA](#) has not reported any outbreaks of HPAI H5N1 in domestic poultry over the past week
- Avian influenza has been detected in a migratory bird, a cackling goose, in [Western Alaska](#); laboratory testing is still underway to confirm the HPAI strain

### Highly Pathogenic Avian Influenza in South America

**No. of Signals: 13**

**No. of weeks in report: 28**

**Avg. Rating: 2.0 – 2.6**

- [Chile](#) has reported 9,420 stranded marine mammals on its coasts, with positive cases reported from Arica to Biobio as well as Lagos, the Magallanes, and now Aysén
- [Peru](#) has also been reporting dead sea lions and wild birds on its coasts with a limited response capacity to collect/bury the bodies; wolves, dogs, and vultures have been observed feeding off the corpses
- Brazil has confirmed HPAI in wild birds in [Espírito Santo](#), [Rio de Janeiro](#), and [Rio Grande do Sul](#)
- [Brazil](#) has also reported LPAI H9N2 in a Muscovy duck in Minas Gerais
- [Paraguay](#) has reported HPAI H5 in domestic poultry
- [Paraguay](#) is monitoring 21 individuals who were exposed to HPAI, none of which have presented with any symptoms

### Highly Pathogenic Avian Influenza in Europe

**No. of Signals: 10**

**No. of weeks in report: 128**

**Avg. Rating: 2.0**

- [Poland](#), [Germany](#), [Austria](#), [Lithuania](#), [Sweden](#), [Slovenia](#), [Lithuania](#), and [Russia](#) have reported HPAI H5N1 in wild birds
- [Italy](#) has reported HPAI H5N1 in two red foxes
- A summary of the overall HPAI situation in Europe is available [here](#)

### Highly Pathogenic Avian Influenza in Asia

**No. of Signals: 03**

**No. of weeks in report: 103**

**Avg. Rating: 2.0**

- [Japan](#) has announced their intention to produce and stockpile enough H5N1 vaccine for 10 million people
- [Nepal](#) has reported HPAI H5N1 in domestic poultry

### Highly Pathogenic Avian Influenza in Africa

**No. of Signals: 01**

**No. of weeks in report: 46**

**Avg. Rating: 2.0**

- [South Africa](#) has reported five outbreaks of HPAI in commercial poultry farms in the Western Cape

## SCIENTIFIC FINDINGS & REPORTS:

### African Swine Fever

- ◆ Highly lethal genotype I and II recombinant African swine fever viruses detected in pigs [Read More](#)
- ◆ Do Seropositive Wild Boars Pose a Risk for the Spread of African Swine Fever? Analysis of Field Data from Latvia and Lithuania [Read More](#)
- ◆ African Swine Fever Outbreak in an Enclosed Wild Boar Hunting Ground in Serbia [Read More](#)
- ◆ Working paper: National Impacts of a Domestic Outbreak of Foot and Mouth Disease and African Swine Fever in the United States [Read More](#)

### Influenza

- ◆ Rapid evolution of A(H5N1) influenza viruses after intercontinental spread to North America [Read More](#)
- ◆ Avian Influenza: Could the H5N1 Virus Be a Potential Next Threat? [Read More](#)
- ◆ Pre-print: Highly pathogenic avian influenza causes mass mortality in Sandwich tern (*Thalasseus sandvicensis*) breeding colonies across northwestern Europe [Read More](#)
- ◆ Pre-print: The bat-borne influenza A virus H9N2 exhibits a set of unexpected pre-pandemic features [Read More](#)
- ◆ WHO Disease Outbreak News Risk Assessment on Avian Influenza A(H5N1) - United Kingdom of Great Britain and Northern Ireland [Read More](#)
- ◆ UKHSA HAIRS risk assessment: avian influenza A(H5N1) in non-avian UK wildlife [Read More](#)

### Vectors and Vector Borne Diseases

- ◆ Pre-print: Belgian *Culex pipiens pipiens* are competent vectors for West Nile virus but not Usutu virus [Read More](#)

### Other

- ◆ Simultaneous detection and phylogenetic analysis of porcine epidemic diarrhea virus and porcine circovirus 4 in Henan province, China [Read More](#)
- ◆ Area Wide Monitoring of Plant and Honey Bee (*Apis mellifera*) Viruses in Blueberry (*Vaccinium corymbosum*) Agroecosystems Facilitated by Honey Bee Pollination [Read More](#)
- ◆ Genetic Characterization and Evolution of Porcine Deltacoronavirus Isolated in the Republic of Korea in 2022 [Read More](#)
- ◆ Serological survey on bovine viral diarrhea virus in man and evaluation of relation with Zika virus-associated microcephaly [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.