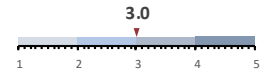


## SUMMARY: RELEVANT EVENTS (includes all events rated ≥ 3.0)

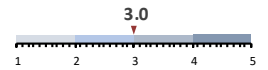
### Highly Pathogenic Avian Influenza

- ◆ The CFIA has confirmed the death of a Canada Goose as a result of HPAI H5N1 in Halifax, **Nova Scotia**; since the confirmation of the case, a hobby farm located in Porters Lake has lost nearly their entire flock (59 of 60 birds) within the past week
- ◆ In the **USA**, HPAI has been reported in wild birds in **Virginia** as well as in additional wild birds in **North Carolina**, all cases are in hunter harvested wild fowl

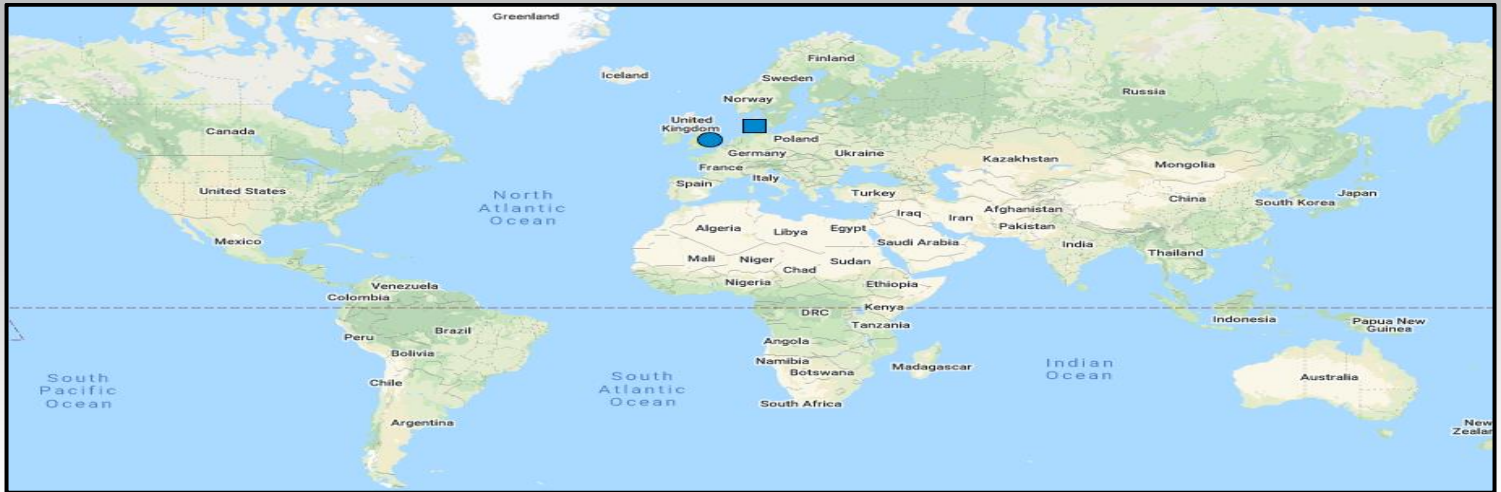
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## NEW EVENTS: (events rated > 2)



### Swine influenza in pig slaughterhouse employee in Denmark

**Pathogen:** Virus ; **Transmission:** Direct contact, aerosol, fomite ; **Species affected in event:** Human

① The Statens Serum Institut (SSI) has recently detected a case of influenza in a citizen of Denmark with a virus variant that probably originates from pigs. The citizen works at a Danish pig slaughterhouse. The sample was taken at the end of November 2021, when the patient was admitted to the hospital for a few days with acutely occurring serious illness. The patient was carefully examined and the only thing found was influenza virus detected in a sample from the respiratory tract. Upon closer analysis of the influenza virus in question from the sample, it was found that it is a virus that has so far only been detected in pigs. It is an isolated case and no further related cases are known in Denmark. Nor have other cases of this virus been detected by laboratory monitoring.

[Read More](#)

Avg. Rating	2.5 - 2.8
No. of Signal	2
No. of Ratings	4

### Dead seals (and crustaceans) washing up on the shores of England

**Pathogen:** Unknown ; **Transmission:** Unknown ; **Species affected in event:** Seal, crustacean

① Dead seals have been washing up on English shores - just months after thousands of perished crustaceans were found piled up on the same coastline. DEFRA says there is no evidence linking these seal deaths to the ongoing investigation into crab and lobster deaths in the North East after thousands washed up on beaches in October. Investigations have taken place into why dead seals are being found on UK beaches as an expert in the region says it is not uncommon at this time of the year. The government's Animal and Plant Health Agency Wildlife Expert group has carried out post-mortems on seal samples, taken from a range of sites in Great Britain, over the last year and not seen any evidence of an emerging disease.

[Read More](#)

Avg. Rating	2.3
No. of Signal	1
No. of Ratings	6

## CONTINUED EVENTS: (events rated ≥ 2.4)

<b>Highly Pathogenic Avian Influenza in North America</b>	<b>No. of Signals: 03</b>	<b>No. of weeks in report: 04</b>	<b>Avg. Rating: 3.0</b>
<ul style="list-style-type: none"> <li>In <a href="#">Canada</a>, the CFIA has confirmed the death of a Canada Goose as a result of HPAI H5N1 in Halifax, Nova Scotia; since the confirmation of the case, a hobby farm located in Porters Lake has lost nearly their entire flock (59 of 60 birds) within the past week</li> <li>In the <a href="#">USA</a>, HPAI has been reported in wild birds in Virginia and in additional wild birds in North Carolina, all cases are in hunter harvested wild fowl</li> </ul>			
<b>African Swine Fever in Asia</b>	<b>No. of Signals: 02</b>	<b>No. of weeks in report: 135</b>	<b>Avg. Rating: 2.5 – 2.8</b>
<ul style="list-style-type: none"> <li><a href="#">Thailand's</a> agriculture minister has admitted that ASF has spread to 13 provinces in the central, north-eastern and southern regions, including Bangkok</li> <li>The <a href="#">Philippines</a> confirmed one positive case of ASF in the village of Purok San Lorenzo; this is the first time ASF has been reported here in several years</li> </ul>			
<b>Highly Pathogenic Avian Influenza in Europe</b>	<b>No. of Signals: 22</b>	<b>No. of weeks in report: 59</b>	<b>Avg. Rating: 2.0 – 2.8</b>
<ul style="list-style-type: none"> <li><a href="#">Moldova</a> has reported its first outbreak of HPAI H5N1 in domestic poultry in Telenesti</li> <li><a href="#">Italy</a> has reported an outbreak of HPAI in a pheasant farm in Sesto al Reghena, province of Pordenone</li> <li><a href="#">Germany</a>, <a href="#">Poland</a>, and the <a href="#">Netherlands</a> have reported outbreaks of HPAI H5N1 in domestic poultry</li> <li><a href="#">Germany</a>, <a href="#">Sweden</a>, <a href="#">Austria</a>, <a href="#">Spain</a>, the <a href="#">UK</a>, <a href="#">Poland</a>, <a href="#">France</a>, <a href="#">Hungary</a>, <a href="#">Portugal</a>, <a href="#">Russia</a>, <a href="#">Norway</a>, and <a href="#">Latvia</a> have reported cases of HPAI H5N1 in wild birds</li> <li>A summary of the overall HPAI situation in Europe is available <a href="#">here</a></li> </ul>			
<b>Influenza A (H9N2 &amp; H5N6) in China</b>	<b>No. of Signals: 04</b>	<b>No. of weeks in report: 23</b>	<b>Avg. Rating: 2.0 – 2.8</b>
<ul style="list-style-type: none"> <li><a href="#">China</a> has reported an additional human case of avian influenza A(H9N2) in a 5-year-old boy from Anhui Province (from Nov 2021); to date, 24 cases of avian influenza A(H9N2) have been reported to WHO from China in 2021</li> <li><a href="#">China</a> has reported two new human cases of avian influenza A(H5N6) in the Mainland, the first case involves a 68-year-old man from Sichuan and the second a 55-year-old woman in Zhejiang; since 2014, 65 human cases have been reported in China</li> </ul>			
<b>Porcine Epidemic Diarrhea in Canada</b>	<b>No. of Signals: 03</b>	<b>No. of weeks in report: 07</b>	<b>Avg. Rating: 2.2 – 2.4</b>
<ul style="list-style-type: none"> <li>Since October 2021, 64 cases of PED have been confirmed in <a href="#">Manitoba</a>, with the majority of cases occurring in the typical high-risk areas in southeastern Manitoba, however a few cases have also been reported in the area of Brunkild, the RM of Cartier and the RM of North Norfolk</li> </ul>			
<b>COVID-19 Worldwide (as of Jan 31, 2022)</b>	<b>No. of Signals: 10</b>	<b>No. of weeks in report: 62</b>	<b>Avg. Rating: 1.0 – 2.4</b>
<ul style="list-style-type: none"> <li><a href="#">Worldwide</a>, there have been 373,229,380 confirmed cases of COVID-19 with 5,658,702 deaths reported</li> <li>In <a href="#">Canada</a>, there have been 3,055,826 cases of COVID-19 with 33,873 deaths reported</li> <li>In southwestern <a href="#">Ontario</a>, five white-tailed deer have tested positive for SARS-CoV-2 (sampled in Nov 2021)</li> <li>In the USA, two deer from <a href="#">New Jersey</a> have also tested positive for SARS-CoV-2 making it the seventh state to report positive findings in deer</li> </ul>			
<b>Highly Pathogenic Avian Influenza in Asia</b>	<b>No. of Signals: 05</b>	<b>No. of weeks in report: 47</b>	<b>Avg. Rating: 1.8 – 2.3</b>
<ul style="list-style-type: none"> <li><a href="#">Hong Kong</a> has reported a case of HPAI H5N1 in a wild Curlew carcass recovered in the Mai Po Nature Reserve</li> <li><a href="#">Japan</a> has reported an outbreak of HPAI H5N1 in domestic poultry in Tiba</li> <li><a href="#">India</a> has reported an outbreak of HPAI in Alappuzha</li> <li>In <a href="#">South Korea</a>, another case of the HPAI has been confirmed in Jincheon, North Chungcheong Province</li> </ul>			
<b>Highly Pathogenic Avian Influenza in Africa</b>	<b>No. of Signals: 02</b>	<b>No. of weeks in report: 22</b>	<b>Avg. Rating: 2.0 – 2.2</b>
<ul style="list-style-type: none"> <li><a href="#">Ghana</a> has reported HPAI H5N1 in farms in the Kpone-Katamanso Municipal District</li> <li><a href="#">Burkina Faso</a> has reported an outbreak of HPAI H5N1 in domestic poultry in Nambé</li> </ul>			

## SCIENTIFIC FINDINGS & REPORTS:

- ◆ Rapid Spread of Severe Fever with Thrombocytopenia Syndrome Virus by Parthenogenetic Asian Longhorned Ticks [Read More](#)
- ◆ Pre-print: Close relatives of MERS-CoV in bats use ACE2 as their functional receptors [Read More](#)
- ◆ The Structure and Immune Regulatory Implications of the Ubiquitin-Like Tandem Domain Within an Avian 2'-5' Oligoadenylate Synthetase-Like Protein [Read More](#)
- ◆ Detection of African swine fever virus utilizing the portable MatMaCorp ASF detection system [Read More](#)
- ◆ Petabase-scale sequence alignment catalyses viral discovery [Read More](#)
- ◆ Enhanced apoptosis as a possible mechanism to self-limit SARS-CoV-2 replication in porcine primary respiratory epithelial cells in contrast to human cells [Read More](#)
- ◆ Equine Encephalosis Virus [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.