

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

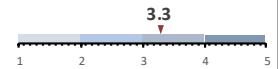
Highly Pathogenic Avian Influenza

- Over the past week, **Canada** has reported additional outbreaks of HPAI in: **British Columbia (1), Saskatchewan (2), Alberta (6), New Brunswick (1), and Ontario (3)**
- Over the last week, the USDA has reported outbreaks of HPAI H5N1 in commercial poultry (**Oklahoma, Colorado, Minnesota, Pennsylvania, Nebraska, Utah**) and backyard birds (**Michigan, Minnesota, Alaska, Montana, Nebraska, Indiana, Vermont, Kansas, Iowa, North Dakota**)

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Influenza A (H5 & H3N8)

- The **USA** has reported a case of influenza A(H5) in a resident of **Colorado** who had direct exposure to (was involved in the depopulation of) infected poultry
- China** has reported the first human case of influenza A(H3N8) in a four year old boy from **Henan Province** who had direct contact with poultry

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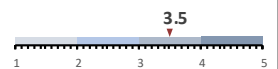
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Equine Influenza

- Equine influenza H3N8 has been identified as the cause of the respiratory disease outbreak and associated mortality occurring at the Bureau of Land Management's Wild Horse and Burro Corrals in **Colorado**

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NEW EVENTS: (events rated > 2)



Influenza A (H5) in Colorado, USA

Pathogen: Virus ; **Transmission:** Direct contact, Aerosol, Fomite ; **Species affected in event:** Human

① A human case of influenza A (H5) has been reported in a resident of Colorado, who had direct exposure to poultry and was involved in the culling (depopulating) of poultry with presumptive H5N1 bird flu. The patient reported fatigue for a few days as their only symptom and has since recovered. The patient is being isolated and treated with the influenza antiviral drug oseltamivir. While it is possible the detection of H5 bird flu in this specimen is a result of surface contamination of the nasal membrane, that can't be determined at this point and the positive test result meets the criteria for an H5 case. [Read More](#)

Avg. Rating	2.7 - 3.5
No. of Signal	3
No. of Ratings	3 - 4

Equine Influenza H3N8 in Colorado, USA

Pathogen: Virus ; **Transmission:** Direct contact, Aerosol, Fomite ; **Species affected in event:** Equine

① The Cañon City Wild Horse and Burro Facility has been placed under quarantine and laboratory tests are being completed to identify the fatal illness that has killed 95 horses since the outbreak began on April 23. An equine influenza virus (H3N8), that is not uncommon among both wild and domestic horses, has been identified as the likely cause of the respiratory disease outbreak and associated mortality. PCR testing also identified two equine herpes viruses (EHV-2 and EHV-5), but these commonly occur in normal, healthy horses, and it is unclear to what extent these may also be contributing to the severity of the clinical signs. [Read More](#)

Avg. Rating	2.3 - 3.5
No. of Signal	4
No. of Ratings	3 - 13

Influenza A (H3N8) in China

Pathogen: Virus ; **Transmission:** Direct contact, Aerosol, Fomite ; **Species affected in event:** Human

① China has reported the first human case of influenza A (H3N8) in a four year old boy in Henan Province. Before the onset of the disease, the patient had raised chickens and black-bone chickens at home, and there were wild ducks around the home. He developed fever and other symptoms on April 5, and was admitted to a local medical institution for treatment on the 10th due to aggravation of his condition. [Read More](#)

Avg. Rating	3.0 - 3.3
No. of Signal	4
No. of Ratings	3

CONTINUED EVENTS: (events rated ≥ 2.4)

<u>Highly Pathogenic Avian Influenza in North America</u>	<u>No. of Signals: 17</u>	<u>No. of weeks in report: 17</u>	<u>Avg. Rating: 2.8 – 3.8</u>
<ul style="list-style-type: none"> Over the last week, Canada has reported additional outbreaks of HPAI in: British Columbia (1), Saskatchewan (2), Alberta (3), New Brunswick (1), and Ontario (3) Over the last week, the USDA has reported outbreaks of HPAI H5N1 in commercial poultry (Oklahoma, Colorado, Minnesota, Pennsylvania, Nebraska, Utah) and backyard birds (Michigan, Minnesota, Alaska, Montana, Nebraska, Indiana, Vermont, Kansas, Iowa, North Dakota) 			
<u>African Swine Fever in Europe</u>	<u>No. of Signals: 05</u>	<u>No. of weeks in report: 131</u>	<u>Avg. Rating: 2.0 – 2.5</u>
<ul style="list-style-type: none"> Romania has reported outbreaks of ASF in domestic swine Romania, Poland, Hungary, and Germany have reported cases of ASF in wild boar 			
<u>Hepatitis of Unknown Etiology Worldwide</u>	<u>No. of Signals: 08</u>	<u>No. of weeks in report: 02</u>	<u>Avg. Rating: 2.0 – 2.5</u>
<ul style="list-style-type: none"> As of May 1, at least 228 probable cases of hepatitis with unknown origin were reported to WHO from 20 countries with over 50 additional cases under investigation 			
<u>Highly Pathogenic Avian Influenza in Europe</u>	<u>No. of Signals: 05</u>	<u>No. of weeks in report: 72</u>	<u>Avg. Rating: 2.0 – 2.3</u>
<ul style="list-style-type: none"> Hungary, the Netherlands, Bulgaria have reported HPAI in domestic poultry Germany and Russia have reported cases of HPAI in wild birds A summary of the overall HPAI situation in Europe is available here 			
<u>Highly Pathogenic Avian Influenza in Asia</u>	<u>No. of Signals: 04</u>	<u>No. of weeks in report: 59</u>	<u>Avg. Rating: 2.0</u>
<ul style="list-style-type: none"> Japan has reported HPAI H5N1 in domestic poultry and wild birds The Philippines have reported HPAI H5N1 in poultry in Isabela province 			
<u>Highly Pathogenic Avian Influenza in Africa</u>	<u>No. of Signals: 02</u>	<u>No. of weeks in report: 28</u>	<u>Avg. Rating: 2.0</u>
<ul style="list-style-type: none"> South Africa has reported HPAI H5N1 in both domestic poultry and wild birds 			

SCIENTIFIC FINDINGS & REPORTS:

Influenza A

- ◆ Epidemiologic, Clinical, and Genetic Characteristics of Human Infections with Influenza A(H5N6) Viruses, China [Read More](#)
- ◆ Emergence and Evolution of Novel Canine-Avian Reassortant H3N2 Influenza A Viruses in Duck in Leizhou Peninsula, China [Read More](#)

Epizootic Hemorrhagic Disease

- ◆ Spatial epidemiology of hemorrhagic disease in Illinois wild white-tailed deer [Read More](#)

Maedi-visna

- ◆ An outbreak of visna-maedi in a flock of sheep in Southern Brazil [Read More](#)

Other

- ◆ Climate change increases cross-species viral transmission risk [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.