Immediate notification report
Report reference: CAN-2015-NAI-003 REF OIE 17577, Report Date: 01/05/2015, Country: Canada

Report Summary

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Ottawa, Ontario K1A 0Y9 Ottawa
Date submitted to OIE: 01/05/2015

Animal type: Terrestrial
Date of report: 01/05/2015
Disease: Highly pathogenic avian influenza
Date of start of the event: 06/02/2015
Causal Agent: Highly pathogenic avian influenza virus
Date of confirmation of the event: 13/04/2015
Serotype(s): H5N8
Diagnosis: Laboratory (advanced)
Reason: New strain of a listed disease
Clinical signs: No
Country or zone: a zone or compartment
Number of reported outbreaks: submitted= 1, Draft= 0

Outbreak details

Province: BRITISH COLUMBIA-
(designated, submitted)
Number of outbreaks: -
District: -
Sub-district: -
Unit Type: Not applicable
Location: Abbotsford
Latitude: 49.03601
Longitude: -122.2455
Start Date: 06/02/2015
End Date: 06/02/2015

<table>
<thead>
<tr>
<th>Species</th>
<th>Measuring units</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Destroyed</th>
<th>Slaughtered</th>
</tr>
</thead>
<tbody>
<tr>
<td>American wigeon:</td>
<td>Animals</td>
<td>...</td>
<td>1</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Affected Population</td>
<td>BC-2015-NAI-WB1</td>
<td>Juvenile American wigeon</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Outbreak summary: Total outbreaks = 1 (Submitted)

Species | Susceptible | Cases | Deaths | Destroyed | Slaughtered |
---------|-------------|-------|--------|-----------|-------------|
American wigeon | 1 |

Epidemiology

Epidemiological comments:
Canada conducts surveillance for avian influenza in wild birds. In addition, enhanced surveillance was undertaken in wild birds in response to the event in poultry (H5N2) in the province of British Columbia (BC) in December 2014. This sample was collected in February 2015 as part of the enhanced surveillance undertaken by BC. The sample was received from the BC provincial laboratory by the Canadian Food Inspection Agency (CFIA) National Centre for Foreign Animal Disease (NCFAD) on 25 March 2015 for further testing. The results confirmed HPAI H5N8 virus with an IVPI of 2.73.

Sequencing of the H5N8 virus isolated indicates it is a wholly Eurasian H5N8 and very similar to the H5N8 virus that was isolated from the gryphalcon in Washington State in December 2014. This is the first report of a H5N8 HPAI virus detection in Canada. This virus has NOT been found in commercial poultry anywhere in Canada. In accordance with the Terrestrial Animal Health Code Article 10.4.1, Member Countries should not impose bans on the trade of poultry commodities in response to notification of influenza A virus in wild birds.

Source of the outbreak(s) or origin of infection:
• Contact with wild species

Measures applied

Applied
• screening
• no planned control measures
Animals treated
• Vaccination Prohibited

Diagnostic test results

<table>
<thead>
<tr>
<th>Laboratory Type</th>
<th>Name of Laboratory</th>
<th>Species</th>
<th>Test Type</th>
<th>Date Results Provided</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local laboratory</td>
<td>Animal Health Centre, British Columbia Ministry of Agriculture</td>
<td>American wigeon</td>
<td>real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)</td>
<td>09/02/2015</td>
<td>Positive</td>
</tr>
</tbody>
</table>

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<table>
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<tr>
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<th>Species</th>
<th>Test Type</th>
<th>Date Results Provided</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>National laboratory</td>
<td>National Centre for Foreign Animal Disease, Canadian Food Inspection Agency</td>
<td>American wigeon</td>
<td>virus sequencing</td>
<td>08/04/2015</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>National Centre for Foreign Animal Disease, Canadian Food Inspection Agency</td>
<td>American wigeon</td>
<td>haemagglutination inhibition test (HIT)</td>
<td>02/04/2015</td>
<td>Positive</td>
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<tr>
<td>National laboratory</td>
<td>National Centre for Foreign Animal Disease, Canadian Food Inspection Agency</td>
<td>American wigeon</td>
<td>virus isolation</td>
<td>27/03/2015</td>
<td>Positive</td>
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<tr>
<td>National laboratory</td>
<td>National Centre for Foreign Animal Disease, Canadian Food Inspection Agency</td>
<td>American wigeon</td>
<td>intravenous pathogenicity index (IVPI) test</td>
<td>13/04/2015</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>National Centre for Foreign Animal Disease, Canadian Food Inspection Agency</td>
<td>American wigeon</td>
<td>real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)</td>
<td>01/04/2015</td>
<td>Positive</td>
</tr>
</tbody>
</table>

**Future Reporting**

The event is continuing. Weekly follow-up reports will be submitted.
Outbreak maps