Immediate notification report  

Report Summary

Name of sender of the report: Dr John Clifford  
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Report Summary

Animal type: Terrestrial  
Date of report: 16/12/2014

Disease: Highly pathogenic avian influenza  
Date of start of the event: 10/12/2014

Causal Agent: Highly pathogenic avian influenza virus  
Date of pre-confirmation of the event: 15/12/2014

Serotype(s): H5N2

Reason: Recurrence of a listed disease  
Diagnosis: Laboratory (advanced)

Country or zone: a zone or compartment  
Clinical signs: Yes

Number of reported outbreaks: submitted= 1, Draft= 0

Outbreak details

State | Number of outbreaks | County | Unit Type | Location | Latitude | Longitude | Start Date | End Date |
--- | --- | --- | --- | --- | --- | --- | --- | --- |
WASHINGTON - (this report - submitted) | - | Whatcom | Not applicable | Whatcom County | 48.9 | -122.48 | 10/12/2014 |

Species | Measuring units | Susceptible | Cases | Deaths | Destroyed | Slaughtered |
--- | --- | --- | --- | --- | --- | --- |
Northern Pintail Anatidae(Anas acuta) | Animals | ... | ... | ... | ... | ... |

Affected Population: Wild pintail ducks

Outbreak summary: Total outbreaks = 1 (Submitted)

Species | Susceptible | Cases | Deaths | Destroyed | Slaughtered |
--- | --- | --- | --- | --- | --- |
Northern Pintail

Epidemiology

Epidemiological comments

As a precaution and in response to the recent HPAI outbreak in Canada, surveillance of poultry premises and of wild bird mortality events was enhanced by the USDA, and State personnel along the United States - Canadian Border. Through this surveillance, highly pathogenic avian influenza (HPAI) H5 was identified in wild birds. Two serotypes were identified on enhanced surveillance, both with amino acid sequence at the HA cleavage site consistent with HPAI, H5N8 and H5N2. H5N8 was identified in a captive wild gyrfalcon that was fed hunter killed wild birds from Whatcom County, Washington and H5N2 was identified in a wild pintail duck also from Whatcom County, Washington. Preliminary analysis suggests this H5N2 is similar to the HPAI identified in the current Canadian outbreak. Based upon sequence attempt from a virus isolate, an avian influenza subtype H5 of Eurasian lineage (partial HA 98% similarity to A/bean goose/Korea/H40/2013) and N2 of US wild bird lineage (partial NA 98% similarity to A/American green-winged teal/California/HKW/F609/2007); the amino acid sequence at the hemagglutinin cleavage site is consistent with highly pathogenic avian influenza (HPAI). Preliminary data suggests that these virus strains (H5N2 and H5N8) may be related with the H5N8 strain potentially representing the progenitor; however further analysis is needed. Neither of these viruses has been found in any poultry in the United States. These H5N8 and H5N2 detections involve only wild birds. Further investigation and characterization of the HPAI viruses is ongoing.

Source of the outbreak(s) or origin of infection

• Unknown or inconclusive

Measures applied

No Control Measures

Animals treated

Vaccination Prohibited

Yes

Diagnostic test results

Laboratory Type | Name of Laboratory | Species | Test Type | Date Results Provided | Result
--- | --- | --- | --- | --- | --- |

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<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>
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<tbody>
<tr>
<td>National laboratory</td>
<td>National Veterinary Services Laboratories (NVSL)</td>
<td>Northern Pintail</td>
<td>real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)</td>
<td>15/12/2014</td>
<td>Positive</td>
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<td>Northern Pintail</td>
<td>virus isolation</td>
<td>15/12/2014</td>
<td>Positive</td>
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<td>Northern Pintail</td>
<td>haemagglutination (HA) test</td>
<td>15/12/2014</td>
<td>Positive</td>
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<tr>
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<td>Northern Pintail</td>
<td>gene sequencing</td>
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<td>Pending</td>
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</tbody>
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**Future Reporting**

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