Report Summary

Name of sender of the report: Dr John Clifford
Telephone: (1-202) 799-7146
Fax: (1-202) 799-7146
Email: John.Clifford@aphis.usda.gov
Date submitted to OIE: 04/02/2015

Animal type: Terrestrial
Date of report: 03/02/2015

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
Date of last occurrence: 2004

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

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

Number of reported outbreaks: submitted= 14, Draft= 0

Outbreak details

State: WASHINGTON
Number of outbreaks: 1
County: Whatcom
Unit Type: Not applicable
Location: Whatcom County
Latitude: 48.9
Longitude: -122.48
Start Date: 15/12/2014
End Date: 15/12/2014

Species: Northern Pintail (Anas acuta)
Affected Population: Wild pintail ducks

State: WASHINGTON
Number of outbreaks: 1
County: Whatcom
Unit Type: Not applicable
Location: Whatcom County
Latitude: 48.785
Longitude: -122.1858
Start Date: 24/12/2014
End Date: 24/12/2014

Species: Mallard (Anas platyrhynchos)
Affected Population: Hunter harvested wild mallard duck

State: WASHINGTON
Number of outbreaks: 1
County: Benton
Unit Type: Backyard
Location: Benton County
Latitude: 46.283
Longitude: -119.521
Start Date: 24/12/2014
End Date: 24/12/2014

Species: Birds
Affected Population: The affected premises was a small backyard mixed free-range flock of geese, turkeys, chickens, ducks, and pigeons that were allowed access to the outdoors and regularly exposed to wild migratory waterfowl. The affected premises also included a related epidemiology linked backyard flock that received birds (ducks) from the index flock.

State: IDAHO
Number of outbreaks: 1
County: Canyon
Unit Type: Backyard
Location: Canyon County
Latitude: 43.615
Longitude: -116.683
Start Date: 07/01/2015
End Date: 07/01/2015

Species: Birds
Affected Population: The affected premises was a small backyard poultry flock of chickens and two ducks which were periodically allowed to range freely.
<table>
<thead>
<tr>
<th>State</th>
<th>Number of outbreaks</th>
<th>County</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>WASHINGTON-other</td>
<td></td>
<td>Clallam</td>
<td>Backyard</td>
<td>Clallam County</td>
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<td>Susceptible</td>
<td>Cases</td>
<td>Deaths</td>
<td>Destroyed</td>
<td>Slaughtered</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>Animals</td>
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<td>3</td>
<td>3</td>
<td>97</td>
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</tbody>
</table>

**Affected Population**
The affected premises was a small mixed free-range backyard flock of geese, ducks, and chickens that were allowed access to the outdoors and regularly exposed to wild migratory waterfowl.

<table>
<thead>
<tr>
<th>State</th>
<th>Number of outbreaks</th>
<th>County</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
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<td>OREGON-other</td>
<td></td>
<td>Lane</td>
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<td>Susceptible</td>
<td>Cases</td>
<td>Deaths</td>
<td>Destroyed</td>
<td>Slaughtered</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mallard:Anatidae/Anas platyrhynchos</td>
<td>Animals</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
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**Affected Population**
Hunter harvested wild mallard duck.

<table>
<thead>
<tr>
<th>State</th>
<th>Number of outbreaks</th>
<th>County</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDAHO-</td>
<td></td>
<td>Canyon</td>
<td>Not applicable</td>
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<td>Susceptible</td>
<td>Cases</td>
<td>Deaths</td>
<td>Destroyed</td>
<td>Slaughtered</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peregrin falcon: Falconidae/Falco peregrinus</td>
<td>Animals</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
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</table>

**Affected Population**
Captive peregrin falcon.

<table>
<thead>
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<th>County</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>OREGON-</td>
<td></td>
<td>Columbia</td>
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<tr>
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<td>Measuring units</td>
<td>Susceptible</td>
<td>Cases</td>
<td>Deaths</td>
<td>Destroyed</td>
<td>Slaughtered</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mallard:Anatidae/Anas platyrhynchos</td>
<td>Animals</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
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**Affected Population**
Hunter harvested wild mallard duck.

<table>
<thead>
<tr>
<th>State</th>
<th>Number of outbreaks</th>
<th>County</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Susceptible</td>
<td>Cases</td>
<td>Deaths</td>
<td>Destroyed</td>
<td>Slaughtered</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northern Pintail: Anatidae/Anas acuta</td>
<td>Animals</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
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**Affected Population**
Hunter harvested wild pintail duck.

<table>
<thead>
<tr>
<th>State</th>
<th>Number of outbreaks</th>
<th>County</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td>Okanogan</td>
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<td>Cases</td>
<td>Deaths</td>
<td>Destroyed</td>
<td>Slaughtered</td>
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<tr>
<td>Birds</td>
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**Affected Population**
The affected premises is a small backyard poultry flock of chickens.

<table>
<thead>
<tr>
<th>State</th>
<th>Number of outbreaks</th>
<th>County</th>
<th>Unit Type</th>
<th>Location</th>
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<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
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</thead>
<tbody>
<tr>
<td>WASHINGTON-</td>
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<td>Backyard</td>
<td>Okanogan County</td>
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<td>Cases</td>
<td>Deaths</td>
<td>Destroyed</td>
<td>Slaughtered</td>
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<tr>
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Follow-up report No.: 4, Report reference: OIE Ref: 17122, Report Date: 03/02/2015, Country: United States of America
<table>
<thead>
<tr>
<th>State</th>
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<th>Longitude</th>
<th>Start Date</th>
<th>End Date:</th>
</tr>
</thead>
<tbody>
<tr>
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<td>-</td>
<td>Whatcom</td>
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<td>Cases</td>
<td>Deaths</td>
<td>Destroyed</td>
<td>Slaughtered</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooper's Hawk:Accipitridae(Accipiter cooperii)</td>
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<td>Affected Population</td>
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<tr>
<td>State</td>
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<td>County</td>
<td>Unit Type</td>
<td>Location</td>
<td>Latitude</td>
<td>Longitude</td>
<td>Start Date</td>
<td>End Date:</td>
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<td>Cases</td>
<td>Deaths</td>
<td>Destroyed</td>
<td>Slaughtered</td>
<td></td>
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</tr>
<tr>
<td>Red-tailed hawk:Accipitridae(Buteo jamaicensis)</td>
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<td>...</td>
<td>...</td>
<td>...</td>
<td></td>
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<tr>
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<td>Wild bird surveillance</td>
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<tr>
<td>State</td>
<td>Number of outbreaks</td>
<td>County</td>
<td>Unit Type</td>
<td>Location</td>
<td>Latitude</td>
<td>Longitude</td>
<td>Start Date</td>
<td>End Date:</td>
</tr>
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<td>Cases</td>
<td>Deaths</td>
<td>Destroyed</td>
<td>Slaughtered</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mallard:Anatidae(Anas platyrhynchos)</td>
<td>Animals</td>
<td>...</td>
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<td>Hunter harvested wild mallard duck</td>
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<td></td>
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**Outbreak summary: Total outbreaks = 14 (Submitted)**

**Species**

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<thead>
<tr>
<th>Species</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Destroyed</th>
<th>Slaughtered</th>
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<td>137</td>
<td>137</td>
<td>339</td>
<td>0</td>
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<tr>
<td>Peregrin falcon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooper's Hawk</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Red-tailed hawk</td>
<td></td>
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</tr>
</tbody>
</table>

**Epidemiology**

**Epidemiological comments**

The USDA Animal and Plant Health Inspection Service (APHIS), in conjunction with State Departments of Agriculture and Wildlife, are continuing to conduct a comprehensive epidemiological investigation and enhanced surveillance (including wild bird surveillance of hunter harvested birds) in response to the HPAI H5N2 wild bird related event. All backyard premises have been quarantined and enhanced active surveillance is being initiated in and around the backyard flocks.

Novel avian influenza virus of Eurasian origin (EA-H5N8 clade 2.3.4.4) spread rapidly along wild bird migratory pathways during 2014. Introduction of this EA-H5N8 virus into the Pacific Flyway sometime during 2014 has allowed mixing with North American (AM) lineage viruses and generated new combinations with genes from both EA and AM origin (or “reassortant” viruses) such as this EA/AM H5N2-reassortant detected in Canada and the US. These findings are not unexpected as the EA-H5N8 virus continues to circulate. The EA-H5 clade 2.3.4.4 viruses are highly pathogenic for poultry.

The HPAI EA/AM H5N2-reassortant virus has NOT been found in commercial poultry anywhere in the United States.

**Source of the outbreak(s) or origin of infection**

- Contact with wild species

Follow-up report No.: 4, Report reference: , OIE Ref: 17122, Report Date: 03/02/2015, Country: United States of America
Measures applied

<table>
<thead>
<tr>
<th>Applied</th>
<th>To be applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>• stamping out</td>
<td>• no planned control measures</td>
</tr>
<tr>
<td>• quarantine</td>
<td></td>
</tr>
<tr>
<td>• movement control</td>
<td></td>
</tr>
<tr>
<td>inside the country</td>
<td></td>
</tr>
<tr>
<td>• zoning</td>
<td></td>
</tr>
<tr>
<td>• disinfection of</td>
<td></td>
</tr>
<tr>
<td>infected premises/</td>
<td></td>
</tr>
<tr>
<td>establishment(s)</td>
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Animals treated

<table>
<thead>
<tr>
<th>Vaccination Prohibited</th>
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</table>

Diagnostic test results

<table>
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<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>Birds</td>
<td>virus sequencing</td>
<td>03/02/2015</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>National Veterinary Services Laboratories (NVSL)</td>
<td>Birds</td>
<td>real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)</td>
<td>03/02/2015</td>
<td>Positive</td>
</tr>
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<td>National laboratory</td>
<td>National Veterinary Services Laboratories (NVSL)</td>
<td>Birds</td>
<td>real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)</td>
<td>29/01/2015</td>
<td>Positive</td>
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<td>Birds</td>
<td>virus sequencing</td>
<td>29/01/2015</td>
<td>Positive</td>
</tr>
<tr>
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<td>National Veterinary Services Laboratories (NVSL)</td>
<td>Mallard</td>
<td>virus sequencing</td>
<td>30/01/2015</td>
<td>Positive</td>
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<td>National Veterinary Services Laboratories (NVSL)</td>
<td>Mallard</td>
<td>real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)</td>
<td>30/01/2015</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>National Veterinary Services Laboratories (NVSL)</td>
<td>Red-tailed hawk</td>
<td>real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)</td>
<td>26/01/2015</td>
<td>Positive</td>
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<td>National laboratory</td>
<td>National Veterinary Services Laboratories (NVSL)</td>
<td>Red-tailed hawk</td>
<td>virus sequencing</td>
<td>26/01/2015</td>
<td>Positive</td>
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<td>National laboratory</td>
<td>National Veterinary Services Laboratories (NVSL)</td>
<td>Cooper's Hawk</td>
<td>virus sequencing</td>
<td>26/01/2015</td>
<td>Positive</td>
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<tr>
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<td>National Veterinary Services Laboratories (NVSL)</td>
<td>Cooper's Hawk</td>
<td>real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)</td>
<td>26/01/2015</td>
<td>Positive</td>
</tr>
</tbody>
</table>

Future Reporting

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