Follow-up report No.7  

### Report Summary

**Name of sender of the report**  Dr John Clifford  
**Telephone**  (1-202) 799-7146  
**Position**  Deputy Administrator  
**Fax**  (1-202) 799-7146  
**Address**  Room # 317-E  
Jamie L. Whitten Federal Building  
1400 Independence Ave, SW  
Washington, DC 20250 Washington 20250  
**Email**  John.Clifford@aphis.usda.gov  
**Date submitted to OIE**  13/02/2015

### Animal type

**Type**  Terrestrial

### Disease

**Date of report**  13/02/2015  
**Date of start of the event**  10/12/2014

### Causal Agent

**Causal Agent**  Highly pathogenic avian influenza  
**Date of pre-confirmation of the event**  14/12/2014

### Serotype(s)

**Serotype(s)**  H5N8

### Reason

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

### Number of reported outbreaks

**Number of outbreaks**  submitted= 12, Draft= 0

### Outbreak details

#### WASHINGTON-other report - submitted

<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</td>
<td>-</td>
<td>Whatcom</td>
<td>Not applicable</td>
<td>Whatcom County</td>
<td>48.98</td>
<td>-122.47</td>
<td>10/12/2014</td>
<td></td>
</tr>
</tbody>
</table>

**Affected Population**  Captive wild gyrfalcon

#### OREGON-other report - submitted

<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>OREGON</td>
<td>-</td>
<td>Douglas</td>
<td>Backyard</td>
<td>Douglas County</td>
<td>43.12</td>
<td>-123.41</td>
<td>16/12/2014</td>
<td></td>
</tr>
</tbody>
</table>

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

#### WASHINGTON-other report - submitted

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<th>Number of outbreaks</th>
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<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</td>
<td>-</td>
<td>Whatcom</td>
<td>Not applicable</td>
<td>Whatcom County</td>
<td>48.854</td>
<td>-122.4966</td>
<td>24/12/2014</td>
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</table>

**Affected Population**  Hunter harvested wild American wigeon duck

#### CALIFORNIA-other report - submitted

<table>
<thead>
<tr>
<th>State</th>
<th>Number of outbreaks</th>
<th>County</th>
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<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALIFORNIA</td>
<td>-</td>
<td>Butte</td>
<td>Not applicable</td>
<td>Butte County</td>
<td>39.672</td>
<td>-121.591</td>
<td>02/01/2015</td>
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</tr>
</tbody>
</table>

**Affected Population**  Hunter harvested wild gadwall duck
<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>UTAH-other report - submitted</td>
<td>Davis</td>
<td>Not applicable</td>
<td>Davis County</td>
<td>40.999</td>
<td>-111.929</td>
<td>09/01/2015</td>
</tr>
<tr>
<td>American wigeon: Anatidae (Anas americana)</td>
<td>Animals</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Affected Population</td>
<td>Hunter harvested wild American wigeon duck.</td>
<td></td>
<td></td>
<td></td>
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<th>Slaughtered</th>
</tr>
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<tbody>
<tr>
<td>CALIFORNIA-other report - submitted</td>
<td>Yolo</td>
<td>Not applicable</td>
<td>Yolo county</td>
<td>38.72</td>
<td>-121.933</td>
<td>09/01/2015</td>
</tr>
<tr>
<td>Green-winged Teal: Anatidae (Anas carolinensis)</td>
<td>Animals</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Affected Population</td>
<td>Hunter harvested wild American green-winged teal duck.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
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<tbody>
<tr>
<td>IDAHO-other report - submitted</td>
<td>Gooding</td>
<td>Not applicable</td>
<td>Gooding County</td>
<td>42.932</td>
<td>-114.807</td>
<td>16/01/2015</td>
</tr>
<tr>
<td>Mallard: Anatidae (Anas platyrhynchos)</td>
<td>Animals</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Affected Population</td>
<td>Hunter harvested wild mallard duck.</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
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<th>Slaughtered</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALIFORNIA-other report - submitted</td>
<td>Stanislaus</td>
<td>Farm</td>
<td>Stanislaus County</td>
<td>37.552</td>
<td>-120.985</td>
<td>19/01/2015</td>
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<tr>
<td>Birds</td>
<td>Animals</td>
<td>145000</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Affected Population</td>
<td>A commercial turkey operation. Only one house of 9,000 birds on the facility was affected and showed increased mortality.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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<tbody>
<tr>
<td>CALIFORNIA-other report - submitted</td>
<td>Butte</td>
<td>Not applicable</td>
<td>Butte County</td>
<td>39.6307</td>
<td>-121.6376</td>
<td>23/01/2015</td>
</tr>
<tr>
<td>American wigeon: Anatidae (Anas americana)</td>
<td>Animals</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
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<th>Deaths</th>
<th>Destroyed</th>
<th>Slaughtered</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDAHO-other report - submitted</td>
<td>Kootenai</td>
<td>Not applicable</td>
<td>Kootenai County</td>
<td>47.717</td>
<td>-116.729</td>
<td>29/01/2015</td>
</tr>
<tr>
<td>Gyrfalcon: Falconidae (Falco rusticolus)</td>
<td>Animals</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Affected Population</td>
<td>Captive wild gyrfalcon.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### State: NEVADA

- **Report**: Other report - submitted
- **County**: Lincoln
- **Location**: Lincoln County
- **Latitude**: 37.673
- **Longitude**: -114.7522
- **Start Date**: 30/01/2015

#### Species
- **Mallard (Anas platyrhynchos)**

#### Affected Population
- Hunter harvested wild mallard duck

#### Species Summary
- **Susceptible**: Animals
- **Cases**: Not applicable
- **Deaths**: Not applicable
- **Destroyed**: Not applicable
- **Slaughtered**: Not applicable

### State: CALIFORNIA

- **Report**: This report - submitted
- **County**: Kings
- **Location**: Kings County
- **Latitude**: 36.048
- **Longitude**: -119.814
- **Start Date**: 02/02/2015

#### Species
- **Gyrfalcon**
- **American wigeon**
- **Gadwall**
- **Green-winged Teal**
- **Mallard**

### Outbreak Summary: Total outbreaks = 12 (Submitted)

#### Species
- **Gyrfalcon**: Birds
- **American wigeon**: Birds
- **Gadwall**: Birds
- **Green-winged Teal**: Birds
- **Mallard**: Birds

#### Susceptible Cases
- **Gyrfalcon**: 259130
- **American wigeon**: 28
- **Gadwall**: 4528
- **Green-winged Teal**: 140602
- **Mallard**: 0

#### Deaths
- **Gyrfalcon**: 28
- **American wigeon**: 4528
- **Gadwall**: 140602
- **Green-winged Teal**: 0
- **Mallard**: 0

#### Destroyed
- **Gyrfalcon**: 0
- **American wigeon**: 0
- **Gadwall**: 0
- **Green-winged Teal**: 0
- **Mallard**: 0

#### Slaughtered
- **Gyrfalcon**: 0
- **American wigeon**: 0
- **Gadwall**: 0
- **Green-winged Teal**: 0
- **Mallard**: 0

### 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 H5N8 and H5N2 wild bird related events. 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 the 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.

On 12 February 2015, the USDA APHIS National Veterinary Services Laboratories (NVSL) confirmed HPAI EA H5N8 virus in a commercial chicken and duck flock in Kings County, California. The flock was experiencing an increase in chicken mortality.

The detection of the HPAI H5N8 in the commercial chicken and duck flock is related to the recent avian influenza events in wild birds. The partial HA/NA sequence is >99% similar to A/gyrfalcon/WA/41088-6/2014 HPAI EA H5N8 based upon direct sequence attempt from chicken swab specimen. The premises has been quarantined. Comprehensive epidemiological investigation and enhanced surveillance on the affected premises and in the area is being conducted.

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

- Contact with wild species

### Measures applied

#### Applied

- stamping out
- quarantine
- movement control inside the country
- zoning
- disinfection of infected premises/establishment(s)

#### To be applied

- no planned control measures

### Animals treated

- No
- 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>National laboratory</td>
<td>National Veterinary Services Laboratories (NVSL)</td>
<td>Birds</td>
<td>virus sequencing</td>
<td>12/02/2015</td>
<td>Positive</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Laboratory Type</th>
<th>Name of Laboratory</th>
<th>Species</th>
<th>Test Type</th>
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<th>Result</th>
</tr>
</thead>
<tbody>
<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>12/02/2015</td>
<td>Positive</td>
</tr>
</tbody>
</table>

**Future Reporting**

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