Follow-up report No.2

Report Summary
Name of sender of the report: Dr Martine Dubuc
Position: OIE Delegate for Canada, Chief Food Safety Officer Vice-President, Science Branch
Address: Floor 3, Room 349
1400 Merivale Road, Tower 2
Ottawa, Ontario K1A 0Y9 Ottawa

Animal type: Terrestrial
Date of report: 12/12/2014
Disease: Highly pathogenic avian influenza
Date of start of the event: 30/11/2014
Causal Agent: Highly pathogenic avian influenza virus
Date of pre-confirmation of the event: 01/12/2014
Sero type(s): H5N2
Date of last occurrence: 01/2008
Reason: Recurrence of a listed disease
Diagnosis: Laboratory (advanced)
Country or zone: a zone or compartment
Clinical signs: Yes
Number of reported outbreaks: submitted= 9, Draft= 0

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</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>BRITISH COLUMBIA - other report</td>
<td>submitted</td>
<td>-</td>
<td>-</td>
<td>Farm</td>
<td>Abbotsford</td>
<td>49.052273</td>
<td>-122.30595</td>
<td>30/11/2014</td>
<td>-</td>
</tr>
</tbody>
</table>

Affected Population:
- BC-2014-NAI-002
- Meat turkey farm
- Affected barn: 83 days of age toms (70% mortality)
- In addition, hens and 2 week old poults on the premises with normal mortality rate.

Species:
- Birds: Animals
- Measuring units: 28000
- Susceptible: 27700
- Cases: 7700
- Deaths: 7700
- Destroyed: 20300
- Slaughtered: 0

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</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>BRITISH COLUMBIA - other report</td>
<td>submitted</td>
<td>-</td>
<td>-</td>
<td>Farm</td>
<td>Chilliwack</td>
<td>49.171042</td>
<td>-121.95099</td>
<td>30/11/2014</td>
<td>-</td>
</tr>
</tbody>
</table>

Affected Population:
- BC-2014-NAI-001
- Chicken broiler breeder farm
- The affected barn holds a flock of 24 weeks of age (10% mortality)
- An adjacent barn, not affected, contains a flock of 47 weeks of age.

Species:
- Birds: Animals
- Measuring units: 12800
- Susceptible: 700
- Cases: 700
- Deaths: 20
- Destroyed: 12100
- Slaughtered: 0

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</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>BRITISH COLUMBIA - other report</td>
<td>submitted</td>
<td>-</td>
<td>-</td>
<td>Farm</td>
<td>Abbotsford</td>
<td>49.052273</td>
<td>-122.30595</td>
<td>02/12/2014</td>
<td>-</td>
</tr>
</tbody>
</table>

Affected Population:
- BC-2014-NAI-004
- Chicken broiler breeder farm
- Affected barn holds hens and roosters 41 week old (sudden death)
- In addition, 7 and 59 week old hens and roosters on the premises with normal mortality rates.

Species:
- Birds: Animals
- Measuring units: 27000
- Susceptible: 22
- Cases: 22
- Deaths: 26978
- Destroyed: 0
- Slaughtered: 0
<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</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>BRITISH COLUMBIA-other report - submitted</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Farm</td>
<td>Abbotsford</td>
<td>49.052273</td>
<td>-122.30595</td>
<td>03/12/2014</td>
<td></td>
</tr>
</tbody>
</table>

### Species

- Measuring units: Animals 14500
- Susceptible: 250
- Cases: 250
- Deaths: 1230
- Destroyed: 0
- Slaughtered: 0

### Affected Population

- BC-2014-NAI-003
- Chicken broiler breeder farm.
- Affected barn holds hens and roosters 37 week old (sudden death).
- In addition, 2 week old pullets on the premises with normal mortality rate.

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</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>BRITISH COLUMBIA-other report - submitted</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Farm</td>
<td>Abbotsford</td>
<td>49.052275</td>
<td>-122.30597</td>
<td>05/12/2014</td>
<td></td>
</tr>
</tbody>
</table>

### Species

- Measuring units: Animals 31000
- Susceptible: 50
- Cases: 50
- Deaths: 30950
- Destroyed: 0
- Slaughtered: 0

### Affected Population

- BC-2014-NAI-005
- Meat turkey farm.
- One barn affected 9 week old birds, high mortality. In addition, 4 and 14 week old birds on premises with normal mortality rates.

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</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>BRITISH COLUMBIA-(this report - submitted)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Farm</td>
<td>Abbotsford</td>
<td>49.05227</td>
<td>-122.30595</td>
<td>08/12/2014</td>
<td></td>
</tr>
</tbody>
</table>

### Species

- Measuring units: Animals 17500
- Susceptible: 200
- Cases: 200
- Deaths: ...
- Destroyed: ...
- Slaughtered: ...

### Affected Population

- BC-2014-NAI-007
- Chicken broiler breeders.

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</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>BRITISH COLUMBIA-(this report - submitted)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Farm</td>
<td>Abbotsford</td>
<td>49.05227</td>
<td>-122.30595</td>
<td>09/12/2014</td>
<td></td>
</tr>
</tbody>
</table>

### Species

- Measuring units: Animals 33000
- Susceptible: ...
- Cases: ...
- Deaths: ...
- Destroyed: ...
- Slaughtered: ...

### Affected Population

- BC-2014-NAI-006
- Meat turkey.

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</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>BRITISH COLUMBIA-(this report - submitted)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Farm</td>
<td>Abbotsford</td>
<td>49.05227</td>
<td>-122.30595</td>
<td>09/12/2014</td>
<td></td>
</tr>
</tbody>
</table>

### Species

- Measuring units: Animals 8800
- Susceptible: 55
- Cases: 55
- Deaths: ...
- Destroyed: ...
- Slaughtered: ...

### Affected Population

- BC-2014-NAI-008
- Chicken broiler breeders.
### Province

<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</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></td>
<td>BC-2014-NAI-009</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Species Measuring units

- **Affected Population**: BC-2014-NAI-009
- **Species**: Chicken broiler breeders.

### Outbreak summary: Total outbreaks = 9 (Submitted)

<table>
<thead>
<tr>
<th>Species</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Destroyed</th>
<th>Slaughtered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds</td>
<td>178440</td>
<td>8977</td>
<td>8977</td>
<td>104578</td>
<td>0</td>
</tr>
</tbody>
</table>

### Epidemiology

**Epidemiological comments**

Four (4) additional outbreaks were confirmed since the previous report. All outbreaks are located in the same small area in the province of British Columbia.

Depopulation of all infected premises is underway, with appropriate cleaning and disinfection, under the supervision of the Canadian Food Inspection Agency (CFIA).

The CFIA National Center for Foreign Animal Disease confirms that the novel H5N2 virus detected in BC contains 5 of 8 gene segments from highly pathogenic Eurasian H5N8 virus including the H5 gene and 3 of 8 segments from typical North American viruses including the N2 gene (wild bird origin).

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

- Unknown or inconclusive

### 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 inside the country</td>
<td></td>
</tr>
<tr>
<td>- screening</td>
<td></td>
</tr>
<tr>
<td>- zoning</td>
<td></td>
</tr>
<tr>
<td>- disinfection of infected premises/establishment(s)</td>
<td></td>
</tr>
</tbody>
</table>

### Animals treated

<table>
<thead>
<tr>
<th>Animals treated</th>
<th>Vaccination Prohibited</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Future Reporting

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