Follow-up report No.: 4
Report reference: BHT_HPAI_2012_01, OIE Ref: 11693, Report Date: 02/03/2012, Country: Bhutan

Report Summary

Disease: Highly pathogenic avian influenza
Animal type: Terrestrial

Causal Agent: Highly pathogenic avian influenza virus
Serotype(s): H5N1

Clinical Signs: Yes
Reason: Reoccurrence of a listed disease

Date of first confirmation of the event: 08/01/2012
Date of report: 02/03/2012
Date Submitted To OIE: 02/03/2012

Diagnosis: Clinical, Laboratory (advanced)

Number Of Reported Outbreaks: Submitted= 9, Draft= 0
Name of Sender of the report: Mr Tenzin Dhendup
Address: PO Box # 113 THIMPHU
Position: Director
Telephone: (975-2) 323 146 - 324 281
Fax: (975-2) 322 094
Email: t-dhendup@moa.gov.bt
Entered by: Mr Tenzin Dhendup

Outbreak (other report - submitted)

Province: CHHUJOHA
District: Chukha
Sub-district: Bjabcho
Unit Type: Village
Location: Mebesa
Latitude: 26.978
Longitude: 89.3397
Start date: 30/12/2011
End Date: 30/12/2011

Species: Birds
Measuring units: Animals
Susceptible: 2010
Cases: 103
Deaths: 103
Destroyed: 1907
Slaughtered: 0

Affected Population:
The new cases have occurred in backyard poultry in Mebesa village located above the district road off the national highway in Chhukha district.

Outbreak (this report - submitted)

Province: CHHUJOHA
District: Chukha
Sub-district: Kamji
Unit Type: Village
Location: Dala
Latitude: 26.8982
Longitude: 89.4697
Start date: 30/12/2011
End Date: 30/12/2011

Species: Birds
Measuring units: Animals
Susceptible: 136
Cases: 22
Deaths: 8
Destroyed: 128
Slaughtered: 0

Affected Population:
A backyard poultry farm adjacent to the national highway.

Outbreak (this report - submitted)

Province: CHHUJOHA
District: Chukha
Sub-district: Kamji
Unit Type: Village
Location: Kamji
Latitude: 26.9388
Longitude: 89.4333
Start date: 30/12/2011
End Date: 30/12/2011

Species: Birds
Measuring units: Animals
Susceptible: 96
Cases: 13
Deaths: 8
Destroyed: 86
Slaughtered: 0
### Affected Population
A backyard poultry farm adjacent to the national highway.

### Outbreak (other report - submitted) (BHT_HPAI_2012_01)

<table>
<thead>
<tr>
<th>Province</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>CHUHKA</td>
<td>Chukha</td>
<td>Bjabcho</td>
<td>Village</td>
<td>Tsimasham</td>
<td>27.1024</td>
<td>89.5617</td>
<td>30/12/2011</td>
<td></td>
</tr>
</tbody>
</table>

<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>Birds</td>
<td>Animals</td>
<td>2010</td>
<td>87</td>
<td>87</td>
<td>1923</td>
<td>0</td>
</tr>
</tbody>
</table>

Affected Population: A backyard poultry farm adjacent to the national highway.

### Outbreak (other report - submitted)

<table>
<thead>
<tr>
<th>Province</th>
<th>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>CHUHKA</td>
<td>Chukha</td>
<td>Farm</td>
<td>Bunagu</td>
<td>26.9679</td>
<td>89.5852</td>
<td>08/01/2012</td>
<td></td>
</tr>
</tbody>
</table>

<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>Birds</td>
<td>Animals</td>
<td>123</td>
<td>37</td>
<td>35</td>
<td>86</td>
<td>0</td>
</tr>
</tbody>
</table>

Affected Population: A backyard poultry farm adjacent to the national highway.

### Outbreak (this report - submitted)

<table>
<thead>
<tr>
<th>Province</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>CHUHKA</td>
<td>Chukha</td>
<td>Village</td>
<td>Maybari</td>
<td>27.1629</td>
<td>89.5549</td>
<td>08/01/2012</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<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>Birds</td>
<td>Animals</td>
<td>290</td>
<td>5</td>
<td>3</td>
<td>287</td>
<td>0</td>
</tr>
</tbody>
</table>

Affected Population: A backyard poultry farm adjacent to the national highway.

### Outbreak (other report - submitted)

<table>
<thead>
<tr>
<th>Province</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>Thimphu</td>
<td>Thimphu</td>
<td>Chang</td>
<td>Village</td>
<td>Chang Gedaphu</td>
<td>27.6482</td>
<td>89.5179</td>
<td>13/01/2012</td>
<td></td>
</tr>
</tbody>
</table>

<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>Birds</td>
<td>Animals</td>
<td>270</td>
<td>36</td>
<td>38</td>
<td>232</td>
<td>0</td>
</tr>
</tbody>
</table>

Affected Population: A poultry backyard farm within Thimphu City.

### Outbreak (this report - submitted)

<table>
<thead>
<tr>
<th>Province</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>CHUHKA</td>
<td>Chukha</td>
<td>Phuntsholing</td>
<td>Village</td>
<td>Wangdighashel</td>
<td>26.8794</td>
<td>89.4000</td>
<td>10/02/2012</td>
<td></td>
</tr>
</tbody>
</table>

<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>Birds</td>
<td>Animals</td>
<td>652</td>
<td>12</td>
<td>12</td>
<td>632</td>
<td>0</td>
</tr>
</tbody>
</table>

Affected Population: A backyard poultry farm adjacent to the national highway.
### Outbreak (this report - submitted)

<table>
<thead>
<tr>
<th>Province</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>CHHUKHA</td>
<td>Chukha</td>
<td>Bongo</td>
<td>Farm</td>
<td>Gedu</td>
<td>26.9074</td>
<td>89.5572</td>
<td>17/02/2012</td>
<td></td>
</tr>
</tbody>
</table>

### Species Measuring units

<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>Birds</td>
<td>Animals</td>
<td>231</td>
<td>10</td>
<td>5</td>
<td>226</td>
<td>0</td>
</tr>
</tbody>
</table>

**Affected Population**
A backyard poultry farm adjacent to the national highway

### 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>5818</td>
<td>325</td>
<td>299</td>
<td>5511</td>
<td>0</td>
</tr>
</tbody>
</table>

### Epidemiology

**Epidemiological comments**

Source of the outbreak(s) or origin of infection
- Unknown or inconclusive

### Control Measures

**Applied**
- Stamping out
- Movement control inside the country
- Screening
- Disinfection of infected premises/establishment(s)
- Dipping / Spraying

**To be applied**
- No Planned Control Measures

**Animals treated**
No

### Country / Zone

**Country or zone**
a zone or compartment

### 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 Centre for Animal Health</td>
<td>Birds</td>
<td>real-time PCR</td>
<td>18/02/2012</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>National Centre for Animal Health</td>
<td>Birds</td>
<td>real-time PCR</td>
<td>14/02/2012</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>National Centre for Animal Health</td>
<td>Birds</td>
<td>real-time PCR</td>
<td>29/01/2012</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>National Centre for Animal Health</td>
<td>Birds</td>
<td>real-time PCR</td>
<td>26/01/2012</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>National Centre for Animal Health</td>
<td>Birds</td>
<td>real-time PCR</td>
<td>15/01/2012</td>
<td>Positive</td>
</tr>
</tbody>
</table>

### Future Reporting

**What further reports will be submitted in relation to this event?**

There are 11 outbreaks that are still recorded as unresolved. It is not possible to declare this event resolved until these individual outbreaks are resolved.

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