Follow-up report No.10  (Final report)

Report Summary
Name of sender of the report Dr Karma Dukpa
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Thimphu THIMPHU
Email k_dukpa@moaf.gov.bt
Date submitted to OIE 16/08/2013

Animal type Terrestrial
Date of report 15/08/2013
Disease Highly pathogenic avian influenza
Date of start of the event 30/12/2011
Causal Agent Highly pathogenic avian influenza virus
Date of pre-confirmation of the event 08/01/2012
Serotype(s) H5N1
Date of last occurrence 25/03/2010
Reason Reoccurrence of a listed disease
Diagnosis Clinical, Laboratory (basic), Laboratory (advanced)
Country or zone a zone or compartment
Clinical signs Yes

Number of reported outbreaks submitted= 14, Draft= 0

Outbreak details
Province Number of outbreaks District Sub-district Unit Type Location Latitude Longitude Start Date End Date:
CHHUKHA-other report - submitted Chukha Chukha Kamji 26.9388 89.4933 30/12/2011 17/04/2013
Species Measuring units Susceptible Cases Deaths Destroyed Slaughtered
Birds Animals 96 13 8 88 0
Affected Population A backyard poultry farm adjacent to the national highway

Province Number of outbreaks District Sub-district Unit Type Location Latitude Longitude Start Date End Date:
CHHUKHA-other report - submitted Chukha Bjabcho Tsínamsham 27.1024 89.5617 30/12/2011 17/04/2013
Species Measuring units Susceptible Cases Deaths Destroyed Slaughtered
Birds Animals 2010 87 87 1923 0
Affected Population A backyard poultry farm adjacent to the national highway.

Province Number of outbreaks District Sub-district Unit Type Location Latitude Longitude Start Date End Date:
CHHUKHA-other report - submitted Chukha Bjabcho Mebesa 26.978 89.3397 30/12/2011 17/04/2013
Species Measuring units Susceptible Cases Deaths Destroyed Slaughtered
Birds Animals 2010 103 103 1907 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.

Province Number of outbreaks District Sub-district Unit Type Location Latitude Longitude Start Date End Date:
CHHUKHA-other report - submitted Chukha Dala 26.8962 89.4697 30/12/2011 17/04/2013
Species Measuring units Susceptible Cases Deaths Destroyed Slaughtered
Birds Animals 136 22 8 128 0
Affected Population A backyard poultry farm adjacent to the national highway

Province Number of outbreaks District Sub-district Unit Type Location Latitude Longitude Start Date End Date:
CHHUKHA-other report - submitted Chukha Farm Bunagu 26.9679 89.5852 08/01/2012 17/04/2013
Species Measuring units Susceptible Cases Deaths Destroyed Slaughtered
Birds Animals 123 37 35 88 0

Printed on: Fri Aug 16 16:25:48 CEST 2013
<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>
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<tbody>
<tr>
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<td>Chukha</td>
<td>Village</td>
<td>Maybari</td>
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<td>Phuntsholing</td>
<td>Village</td>
<td>Wangdga</td>
<td>26.8794</td>
<td>89.4003</td>
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<td>Bongo</td>
<td>Farm</td>
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<td>27.0195</td>
<td>91.1879</td>
<td>27/03/2012</td>
<td>17/04/2013</td>
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</table>

**Affected Population:**
- A backyard poultry farm adjacent to the national highway.
- A poultry backyard farm within Thimphu City.
- A backyard poultry farm adjacent to the national highway.
- Backyard scavenging poultry.
- Backyard free-rangmg chicken in two villages, Yangbari and Patong.

*Species* Measuring units | Susceptible | Cases | Deaths | Destroyed | Slaughtered
---|-------------|-------|--------|-----------|------------|
- Birds | Animals     | 290   | 3      | 287       | 0          |
- Birds | Animals     | 270   | 38     | 232       | 0          |
- Birds | Animals     | 652   | 12     | 632       | 0          |
- Birds | Animals     | 231   | 10     | 226       | 0          |
- Birds | Animals     | 1050  | 1      | 131       | 0          |
- Birds | Animals     | 265   | 70     | 0         | 0          |
- Birds | Animals     | 496   | 24     | 29        | 0          |
### Province: Dagana

- **Number of outbreaks**: 1
- **District**: Dagana
- **Sub-district**: Lhamzingkha Village
- **Unit Type**: Farm Goan
- **Location**: Farm Goan
- **Latitude**: 26.974
- **Longitude**: 89.8082
- **Start Date**: 19/12/2012
- **End Date**: 17/04/2013

### Species

- **Species**: Birds
- **Susceptible**: 970
- **Cases**: 18
- **Deaths**: 18
- **Destroyed**: 952
- **Slaughtered**: 0

### Affected Population

- From 19 to 30 December 2012, 18 poultry died in a backyard. All the birds were free-ranging birds. Ten birds had died in the village about a month before, but it was not reported at that time. Seven samples were collected from the five houses in the vicinity which include 93 free-ranging birds and were sent to the National Centre for Animal Health (NCAH) for real-time PCR; two were positive.

### Province: Sarpang

- **Number of outbreaks**: 2
- **District**: Sarpang
- **Sub-district**: Gelephu, Chuzagang
- **Unit Type**: Farm Namkhaling, Pelrithang & Chuzargang
- **Location**: Farm Namkhaling, Pelrithang & Chuzargang
- **Latitude**: 26.9768
- **Longitude**: 90.2817
- **Start Date**: 14/01/2013
- **End Date**: 17/04/2013

### Species

- **Species**: Birds
- **Susceptible**: 85956
- **Cases**: 76
- **Deaths**: 76
- **Destroyed**: 832
- **Slaughtered**: 0

### Affected Population

- **Affected Population**: From 19 to 30 December 2012, 18 poultry died in a backyard. All the birds were free-ranging birds. Ten birds had died in the village about a month before, but it was not reported at that time. Seven samples were collected from the five houses in the vicinity which include 93 free-ranging birds and were sent to the National Centre for Animal Health (NCAH) for real-time PCR; two were positive.

### Outbreak summary: Total outbreaks = 14 (Submitted)

<table>
<thead>
<tr>
<th>Species</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Destroyed</th>
<th>Slaughtered</th>
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<tbody>
<tr>
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<td>94555</td>
<td>514</td>
<td>488</td>
<td>7455</td>
<td>0</td>
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</tbody>
</table>

### Epidemiology

#### Epidemiological comments

No further cases of avian influenza were detected following active surveillance in the country.

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

- Illegal movement of animals
- Unknown or inconclusive

### Measures applied

#### Applied

- movement control inside the country
- dipping / spraying

#### Animals treated

- Vaccination Prohibited

### Future Reporting

The report and all its outbreaks have been resolved.
Outbreak maps

Follow-up report No.: 10, Report reference: BHT_HPAI_2012_01, OIE Ref: 13925, Report Date: 15/08/2013, Country: Bhutan