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 Start of Event: 30/12/2011
Date of report: 18/01/2012
Date Submitted To OIE: 18/01/2012

Diagnosis: Clinical, Laboratory (advanced)

Number Of Reported Outbreaks: Submitted= 3, Draft= 0

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Entered by: Mr Tenzin Dhendup

Outbreak (this report - submitted)

Province: CHHU04A
District: Chukha
Sub-district: Bjabcho
Unit Type: Village
Location: Mebesa
Latitude: 26.976
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: 1581
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 (other report - submitted) ( BHT_HPAI_2012_01 )

Province: CHHU04A
District: Chukha
Sub-district: Bjabcho
Unit Type: Village
Location: Tsimasham
Latitude: 27.1024
Longitude: 89.5617
Start date: 30/12/2011
End Date: 30/12/2011

Species: Birds
Measuring units: Animals
Susceptible: 2010
Cases: 87
Deaths: 87
Destroyed: 1241
Slaughtered: 0

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

Outbreak (other report - submitted)

Province: Thimphu
District: Thimphu
Sub-district: Chang
Unit Type: Village
Location: Chang Gedaphu
Latitude: 27.6482
Longitude: 89.5179
Start date: 13/01/2012
End Date: 13/01/2012

Species: Birds
Measuring units: Animals
Susceptible: 270
Cases: 36
Deaths: 38
Destroyed: 232
Slaughtered: 0
Affected Population
A poultry backyard farm within Thimphu City

Outbreak summary: Total outbreaks = 3 (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>4290</td>
<td>228</td>
<td>228</td>
<td>3054</td>
<td>0</td>
</tr>
</tbody>
</table>

Epidemiology

Epidemiological comments
The outbreak at Mebesa village seems to have preceded the outbreak at Tsimasham village based on the trace-back mechanisms and time-line of the occurrence of events. The outbreaks at Mebesa and Tsimasham appear to be epidemiologically linked but need to be confirmed from the results of the virus sequencing and phylogenetic studies.

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

Vaccination Prohibited
Yes

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>10/01/2012</td>
<td>Positive</td>
</tr>
</tbody>
</table>

Future Reporting

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

There are 3 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.