**Report Summary**

<table>
<thead>
<tr>
<th>Disease</th>
<th>Highly pathogenic avian influenza</th>
<th>Animal type</th>
<th>Terrestrial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Causal Agent</td>
<td>Highly pathogenic avian influenza virus</td>
<td>Serotype(s)</td>
<td>H5N1</td>
</tr>
<tr>
<td>Clinical Signs</td>
<td>Yes</td>
<td>Reason</td>
<td>Reoccurrence of a listed disease</td>
</tr>
<tr>
<td>Date of first confirmation of the event</td>
<td>07/12/2010</td>
<td>Date of Start of Event</td>
<td>29/11/2010</td>
</tr>
<tr>
<td>Date of report</td>
<td>07/01/2011</td>
<td>Date Submitted To OIE</td>
<td>07/01/2011</td>
</tr>
<tr>
<td>Diagnosis</td>
<td>Laboratory (basic), Laboratory (advanced)</td>
<td>Date Of Last Occurrence</td>
<td>15/05/2008</td>
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<tr>
<td>Number Of Reported Outbreaks</td>
<td>Submitted= 8, Draft= 0</td>
<td>Name of Sender of the report</td>
<td>Dr Kiyoon Chang</td>
</tr>
<tr>
<td>Address</td>
<td>Quarantine Policy Division</td>
<td>Position</td>
<td>CVO &amp; Director</td>
</tr>
<tr>
<td></td>
<td>Food Safety &amp; Consumer Affairs Policy Bureau</td>
<td>Fax</td>
<td>(82-2) 504 94 27</td>
</tr>
<tr>
<td></td>
<td>MIFAFF (Ministry of Food, Agriculture, Forestry and Fisheries)</td>
<td>Entered by</td>
<td>Dr Kiyoon Chang</td>
</tr>
<tr>
<td></td>
<td>Government Complex Gwacheon</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jungang-Dong 1, Gwacheon</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gyeongg -Do 417-719 Gyeongg -Do</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telephone</td>
<td>(82-2) 500 21 15</td>
<td>Email</td>
<td><a href="mailto:kchangy@korea.kr">kchangy@korea.kr</a></td>
</tr>
</tbody>
</table>

**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>
<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>JEOLLABUK-DO</td>
<td>Iksan city</td>
<td>Chunpo-myun</td>
<td>Not applicable</td>
<td>Chunpo-n</td>
<td>35,53469</td>
<td>126,569188</td>
<td>29/11/2010</td>
<td>07/12/2010</td>
<td>49</td>
<td>Animals</td>
<td>39</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Affected Population</td>
<td>Anas platyrhynchos (mallard duck)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
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**Outbreak (other report - submitted)**

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<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>CHUNGCHEONGNAM-DO</td>
<td>Seosan city</td>
<td>Buseok-myun</td>
<td>Not applicable</td>
<td>Chang-n</td>
<td>36,380655</td>
<td>126,221268</td>
<td>29/11/2010</td>
<td>10/12/2010</td>
<td>2</td>
<td>Animals</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Affected Population</td>
<td>Bubo bubo (eagle owl)</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
### Outbreak (other report - submitted)

**Province** | **District** | **Sub-district** | **Unit Type** | **Location** | **Latitude** | **Longitude** | **Start Date** | **End Date**  
---|---|---|---|---|---|---|---|---  
JEOLLANAM-DO | Haenam-gun | Sani-myun | Not applicable | Dukho-ri | 34.6306 | 126.4644 | 22/12/2010 |  

| Species | Measuring units | Susceptible | Cases | Deaths | Destroyed | Slaughtered |  
---|---|---|---|---|---|---|  
Wild species | Animals | 74 | 20 | 20 | 0 | 0 |  

**Affected Population**  
Anas platyrhynchos (mallard duck) found dead

### Outbreak (other report - submitted)

**Province** | **District** | **Sub-district** | **Unit Type** | **Location** | **Latitude** | **Longitude** | **Start Date** | **End Date**  
---|---|---|---|---|---|---|---|---  
GYEONGSANGNAM-DO | Sacheon city | Yonghyeon-myun | Not applicable | Jumoon-ri | 35 | 128.0508 | 26/12/2010 |  

| Species | Measuring units | Susceptible | Cases | Deaths | Destroyed | Slaughtered |  
---|---|---|---|---|---|---|  
Wild species | Animals | 1 | 1 | 0 | 0 | 0 |  

**Affected Population**  
Anas platyrhynchos (mallard duck) found dead

### Outbreak (other report - submitted)

**Province** | **District** | **Sub-district** | **Unit Type** | **Location** | **Latitude** | **Longitude** | **Start Date** | **End Date**  
---|---|---|---|---|---|---|---|---  
JEOLLABUK-DO | Iksan city | Mangseong-myun | Farm | Muhyeong-ri | 36.064585 | 127.023646 | 29/12/2010 |  

| Species | Measuring units | Susceptible | Cases | Deaths | Destroyed | Slaughtered |  
---|---|---|---|---|---|---|  
Birds | Animals | 17000 | 5 | 5 | 16995 | 0 |  

**Affected Population**  
Chickens

### Outbreak (other report - submitted)

**Province** | **District** | **Sub-district** | **Unit Type** | **Location** | **Latitude** | **Longitude** | **Start Date** | **End Date**  
---|---|---|---|---|---|---|---|---  
CHUNGCHEGONGNAM-DO | Cheonan city | Poongse-myun | Farm | Poongseo-ri | 36.430021 | 127.072233 | 29/12/2010 |  

| Species | Measuring units | Susceptible | Cases | Deaths | Destroyed | Slaughtered |  
---|---|---|---|---|---|---|  
Birds | Animals | 10850 | 1 | 1 | 10849 | 0 |  

**Affected Population**  
A duck

### Outbreak (this report - submitted)

**Province** | **District** | **Sub-district** | **Unit Type** | **Location** | **Latitude** | **Longitude** | **Start Date** | **End Date**  
---|---|---|---|---|---|---|---|---  
GYEONGSANGNAM-DO | Sacheon city | Not applicable | Farm | Sinbyeok-dong | 34.590794 | 128.034907 | 30/12/2010 |  

| Species | Measuring units | Susceptible | Cases | Deaths | Destroyed | Slaughtered |  
---|---|---|---|---|---|---|  
Wild species | Animals | 1 | 1 | 0 | 0 | 0 |  

**Affected Population**  
Aix galericulata (mandarin duck) found dead

### Outbreak (this report - submitted)

**Province** | **District** | **Sub-district** | **Unit Type** | **Location** | **Latitude** | **Longitude** | **Start Date** | **End Date**  
---|---|---|---|---|---|---|---|---  
JEOLLANAM-DO | Yeongam-gum | Sijong-myun | Farm | Bongso-ri | 34.503699 | 126.354525 | 05/01/2011 |  

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Page 2/5
Species | Measuring units | Susceptible | Cases | Deaths | Destroyed | Slaughtered
---|---|---|---|---|---|---
Birds | Animals | 14500 | 4500 | 4500 | 10000 | 0

Affected Population: Ducks

Outbreak summary: Total outbreaks = 8 (Submitted)

Species | Susceptible | Cases | Deaths | Destroyed | Slaughtered
---|---|---|---|---|---
Wild species | 113 | 25 | 24 | 0 | 0
Birds | 42350 | 4506 | 4506 | 37844 | 0

Epidemiology

Epidemiological comments

A dead wild mandarin duck was reported to the local authorities. The tests carried out in the NVRQS detected H5N1 HPAI virus antigen from some samples. The area within 10km radius from the detection spot was put under movement control. Disinfection and clinical surveillance in that area has been intensified.

There was also a notification of HPAI suspected cases in a farm. 4,500 out of 14,500 ducks were dead in 5 days. It was proved as HPAI virus H5N1 subtype in NVRQS. The poultry in the affected farm and in the area within 500 m radius from the affected farm were culled and buried.

Disinfection and clinical surveillance in the area within 10km radius from the affected farm has been intensified.

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

Control Measures

Applied

• Control of wildlife reservoirs
• Stamping out
• Movement control inside the country
• Screening
• Zoning
• Disinfection of infected premises/establishment(s)

To be applied

• No Planned Control Measures

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 Veterinary Research and Quarantine Service (NVRQS)</td>
<td>Birds</td>
<td>gene sequencing</td>
<td>07/01/2011</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>National Veterinary Research and Quarantine Service (NVRQS)</td>
<td>Birds</td>
<td>reverse transcription - polymerase chain reaction (RT-PCR)</td>
<td>07/01/2011</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>National Veterinary Research and Quarantine Service (NVRQS)</td>
<td>Wild species</td>
<td>reverse transcription - polymerase chain reaction (RT-PCR)</td>
<td>06/01/2011</td>
<td>Positive</td>
</tr>
</tbody>
</table>

Future Reporting

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

There are 6 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.