### Follow-up report No.6


#### Report Summary

<table>
<thead>
<tr>
<th>Name of sender of the report</th>
<th>Dr Toshiro Kawashima</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position</td>
<td>CVO</td>
</tr>
<tr>
<td>Address</td>
<td>Animal Health Division Food Safety and Consumer Affairs Bureau Ministry of Agriculture, Forestry and Fisheries 1-2-1 Kasumigaseki Chiyoda-ku Tokyo 100-8950</td>
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<td>Telephone</td>
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<tr>
<td>Fax</td>
<td>(81-3) 3502 3385</td>
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<tr>
<td>Email</td>
<td><a href="mailto:animal_health88@nm.maff.go.jp">animal_health88@nm.maff.go.jp</a></td>
</tr>
<tr>
<td>Date submitted to OIE</td>
<td>26/12/2014</td>
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</tbody>
</table>

#### Animal type
- **Terrestrial**

#### Date of report
- **26/12/2014**

#### Disease
- **Highly pathogenic avian influenza**

#### Causal Agent
- **Highly pathogenic avian influenza virus**

#### Date of start of the event
- **03/11/2014**

#### Serotype(s)
- **H5N8**

#### Date of pre-confirmation of the event
- **13/11/2014**

#### Date of last occurrence
- **16/04/2014**

#### Reason
- **Reoccurrence of a listed disease**

#### Diagnosis
- Clinical, Laboratory (basic), Laboratory (advanced)

#### Country or zone
- the whole country

#### Clinical signs
- Yes

#### Number of reported outbreaks
- submitted= 10, Draft= 0

### Outbreak details

#### Province
- **SHIMANE**: Other report - submitted
- **TOTTORI**: Other report - submitted
- **CHIBA**: Other report - submitted

#### Species
- **Tundra Swan: Anser canagicus**
- **Anatidae**: Anatidae (unidentified: Anatidae (incognita))

#### Measuring units
- 

#### Susceptible
- 

#### Cases
- 

#### Deaths
- 

#### Destroyed
- 

#### Slaughtered
- 

#### Location
- Yasugi-shi
- Tottori-shi
- Chosei-gun

#### Latitude
- 35.431442
- 35.501133
- 35.431122

#### Longitude
- 133.250915
- 134.235091
- 140.227086

#### Start Date
- 03/11/2014
- 18/11/2014
- 18/11/2014

#### End Date
- 13/11/2014
- 26/11/2014
- 22/11/2014

### Affected Population
- 2 fecal samples from Cygnus columbianus (tundra swan)
- A fecal sample from Anatidae (species are unidentified since only fecal samples were collected)
- 2 fecal samples from Anatidae (species are unknown since only fecal samples were collected)

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Printed on: Mon Dec 29 17:57:41 CET 2014
### Province: Kagoshima
- **Species:** White-naped crane (Gruidae/Grus vipio)
- **Location:** Izumi-shi
  - **Latitude:** 32.090572
  - **Longitude:** 130.352753
  - **Start Date:** 23/11/2014
  - **End Date:** 29/11/2014

  **Affected Population:** A weakened Grus vipio (white-naped crane) was found and tested.

### Province: Kagoshima
- **Species:** Gruidae (unidentified) (Gruidae/Gruidae (incognita))
- **Location:** Izumi-shi
  - **Latitude:** 32.090572
  - **Longitude:** 130.352753
  - **Start Date:** 01/12/2014
  - **End Date:** 06/12/2014

  **Affected Population:** Water collected from roost of cranes (not from animals).

### Province: Kagoshima
- **Species:** Hooded crane (Gruidae/Grus monacha)
- **Location:** Izumi-shi
  - **Latitude:** 32.090572
  - **Longitude:** 130.352753
  - **Start Date:** 07/12/2014
  - **End Date:** 10/12/2014

  **Affected Population:** A dead Grus monacha (hooded crane) was found and tested.

### Province: Gifu
- **Species:** Mandarin Duck (Anatidae/Aix galericulata)
- **Location:** Kani-shi
  - **Latitude:** 35.426121
  - **Longitude:** 137.061011
  - **Start Date:** 12/12/2014
  - **End Date:** 20/12/2014

  **Affected Population:** A dead Aix galericulata (Mandarin duck) was found and tested.

### Province: Miyazaki
- **Species:** Bird (Mandarin Duck: Anatidae/Aix galericulata)
- **Location:** Nobeoka-shi
  - **Latitude:** 32.67972
  - **Longitude:** 131.697586
  - **Start Date:** 14/12/2014
  - **End Date:** 19/12/2014

  **Affected Population:** Poultry (broiler breeder)
### Epidemiology

**Epidemiological comments**

Additional cases in wild birds:
- **Case 1:** A dead *Grus monacha* (hooded crane) was collected on 17 December 2014 and tested against avian influenza virus. It was confirmed on 19 December 2014 that the bird was infected with H5N8 influenza A virus. The result of gene sequencing indicated that a HA0 cleavage site of the amino acid sequence was consistent with that of highly pathogenic avian influenza virus.
- **Case 2:** A dead *Aix galericulata* (mandarin duck) was collected on 12 December 2014 and tested against avian influenza virus. It was confirmed on 20 December 2014 that the bird was infected with H5N8 influenza A virus. The result of gene sequencing indicated that a HA0 cleavage site of the amino acid sequence was consistent with that of highly pathogenic avian influenza virus.

Movement control inside the country and stamping out are not applied for outbreaks in wild birds.

Follow-up information on the outbreak in poultry reported in the Follow-up report No.4:

There is a farm within the movement restriction zone and the status of the farm was confirmed by local laboratory (Miyazaki Livestock Hygiene Centre), according to the national guideline. Susceptible animals (birds) in the farm were tested by clinical inspection, serum antibody test and virus isolation. On 20 December 2014, the farm was proved to be free from avian influenza virus based on the results of the above confirmation tests.

Movement restrictions (3km radius of the affected farm) and shipment restrictions (3-10km radius of the affected farm) are still in place.

**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>
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<tbody>
<tr>
<td>• control of wildlife reservoirs</td>
<td>• no planned control measures</td>
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<tr>
<td>• stamping out</td>
<td></td>
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<tr>
<td>• quarantine</td>
<td></td>
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<td>• movement control inside the country</td>
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<tr>
<td>• screening</td>
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<td>• disinfection of infected premises/establishment(s)</td>
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</table>

**Animals treated**

- Vaccination Prohibited
- No

**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>
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<tbody>
<tr>
<td>Private Laboratory</td>
<td>Tottori University</td>
<td>Mandarin Duck</td>
<td>gene sequencing</td>
<td>20/12/2014</td>
<td>Positive</td>
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<tr>
<td>Private Laboratory</td>
<td>Tottori University</td>
<td>Mandarin Duck</td>
<td>virus isolation</td>
<td>19/12/2014</td>
<td>Positive</td>
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<td>Private Laboratory</td>
<td>Tottori University</td>
<td>Mandarin Duck</td>
<td>reverse transcription - polymerase chain reaction (RT-PCR)</td>
<td>19/12/2014</td>
<td>Positive</td>
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<td>Private Laboratory</td>
<td>Kagoshima University</td>
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**Future Reporting**

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