# Report Summary

**Disease**
Highly pathogenic avian influenza

**Animal type**
Terrestrial

**Causal Agent**
Highly pathogenic avian influenza virus

**Seroype(s)**
H5N1

**Clinical Signs**
Yes

**Reason**
Reoccurrence of a listed disease

**Date of first confirmation of the event**
19/12/2010

**Date of report**
19/01/2011

**Date submitted to OIE**
19/01/2011

**Date of last occurrence**
01/04/2009

**Number of reported outbreaks**
Submitted: 4, Draft: 0

**Name of sender of the report**
Dr. Toshiro Kawashima

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Food Safety and Consumer Affairs Bureau
Ministry of Agriculture, Forestry and Fisheries
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**Fax**
(81-3) 3502 3385

**Email**
animal_health@nm.maff.go.jp

# 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>TOYAMA</td>
<td>Takaoka city</td>
<td>Kojo</td>
<td>Not applicable</td>
<td>Takaoka kojo (Old Castle) Park Zoo</td>
<td>36.747838</td>
<td>137.022638</td>
<td>16/12/2010</td>
<td>18/12/2010</td>
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</tbody>
</table>

**Species**
Wild species

**Measuring units**
Animals

**Susceptible**
14

**Cases**
4

**Deaths**
4

**Destroyed**
10

**Slaughtered**
0

**Affected Population**
Captive wild birds: 10 Cygnus olor (mute swans) [4 mute swans died], 2 ducks and 2 Cygnus atratus (black swans)

# Outbreak (this report - submitted)

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<th>End date</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAGOSHIMA</td>
<td>Izumi city</td>
<td>Not applicable</td>
<td>Izumi Crane Park</td>
<td>32.102814</td>
<td>130.274954</td>
<td>18/12/2010</td>
<td>18/01/2011</td>
</tr>
</tbody>
</table>

**Species**
Wild species

**Measuring units**
Animals

**Susceptible**
5

**Cases**
5

**Deaths**
0

**Destroyed**
0

**Slaughtered**
0
Affected Population: Grus monacha (hooded crane)

### Outbreak (other report - submitted)

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</tr>
</tbody>
</table>

**Species**

- **Wild species**
  - **Measuring units**: Animals
  - **Susceptible**: Wild species
  - **Cases**: 1
  - **Deaths**: 1
  - **Destroyed**: 0
  - **Slaughtered**: 0

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### Outbreak (this report - submitted)

<table>
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<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>FUKUSHIMA</td>
<td>Koriyama city</td>
<td>Not applicable</td>
<td>Toyoda-cho water purification facility</td>
<td>37.396142</td>
<td>140.368499</td>
<td>04/01/2011</td>
<td>05/01/2011</td>
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</tbody>
</table>

**Species**

- **Wild species**
  - **Measuring units**: Animals
  - **Susceptible**: Wild species
  - **Cases**: 2
  - **Deaths**: 2
  - **Destroyed**: 0
  - **Slaughtered**: 0

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### Outbreak summary: Total outbreaks = 4 (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>Wild species</td>
<td>14</td>
<td>12</td>
<td>12</td>
<td>10</td>
<td>0</td>
</tr>
</tbody>
</table>

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### Epidemiology

**Epidemiological comments**

The first case detected in the Izumi Crane Park (national bird sanctuary) was reported to the OIE in the follow-up report No. 1. A total of 36 dead birds including the first case were found out in the sanctuary between the start date and 18 January 2011: 22 hooded cranes, 4 white-necked cranes and 10 wild ducks. Influenza virus A subtype H5N1 was isolated only from 6 dead hooded cranes including the first case (1 bird).

There is no sign of accelerating and explosive spread of infection such as massive deaths of wild birds and a sudden increase of weak birds in the sanctuary. A total of 1,197 faeces of birds collected in the sanctuary between 25 December 2010 and 27 December 2010 were negative to influenza virus.

In addition, on 19 December 2010, Hokkaido University confirmed the isolates from dead tufted ducks detected in Fukushima prefecture were positive to influenza virus A subtype H5N1. A total of 3 dead tufted ducks were collected at a water reservoir in Koriyama city on 4 January 2011 and 5 January 2011. The viruses were isolated from a bird collected on 4 January 2011 and another collected on 5 January 2011.

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

- Unknown or inconclusive

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### Control Measures

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

- **Animals treated**
  - No
  - Vaccination Prohibited: Yes

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### Country / Zone

- **Country or zone**: the whole country
### 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>Private Laboratory</td>
<td>Tottori University</td>
<td>Wild species</td>
<td>virus isolation</td>
<td>12/01/2011</td>
<td>Positive</td>
</tr>
<tr>
<td>Private Laboratory</td>
<td>Tottori University</td>
<td>Wild species</td>
<td>virus isolation</td>
<td>27/12/2010</td>
<td>Positive</td>
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<tr>
<td>Private Laboratory</td>
<td>Tottori University</td>
<td>Wild species</td>
<td>virus isolation</td>
<td>24/12/2010</td>
<td>Positive</td>
</tr>
<tr>
<td>OIE’s Reference Laboratory</td>
<td>Hokkaido University</td>
<td>Wild species</td>
<td>gene sequencing</td>
<td>19/01/2011</td>
<td>Positive</td>
</tr>
<tr>
<td>OIE’s Reference Laboratory</td>
<td>Hokkaido University</td>
<td>Wild species</td>
<td>virus isolation</td>
<td>19/01/2011</td>
<td>Positive</td>
</tr>
</tbody>
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### Future Reporting

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

There are 0 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.