### 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**
20/12/2011

**Date of start of event**
17/12/2011

**Date of report**
23/03/2012

**Date submitted to OIE**
23/03/2012

**Diagnosis**
Laboratory (advanced)

**Date of last occurrence**
13/12/2011

**Number of reported outbreaks**
Submitted= 20, Draft= 0

**Name of Sender of the report**
Dr Thomas Sit

**Address**
7/F Cheung Sha Wan Government Offices, 303 Cheung Sha Wan Road, Kowloon Hong Kong

**Position**
Chief Veterinary Officer / Assistant Director (Inspection & Quarantine)

**Telephone**
852 2150 6602

**Fax**
852 2199 7050

**Email**
thcsit@afcd.gov.hk

**Entered by**
Dr Thomas Sit

### Outbreak (other report - submitted)

**Province**
Hong Kong

**District**
Tin Shui Wai

**Location**
5 Tin Wu Road

**Latitude**
22.45353

**Longitude**
114.002912

**Start date**
17/12/2011

**End Date**
17/12/2011

**Species**
Wild species

**Measuring units**
Animals

**Susceptible**
1

**Cases**
1

**Deaths**
1

**Destroyed**
0

**Slaughtered**
0

### Affected Population

An Oriental Magpie Robin (Copsychus saularis) was collected on 17 December 2011 at Tin Shui Wai. The Oriental Magpie Robin is a common local resident in Hong Kong.

### Outbreak (other report - submitted)

**Province**
Hong Kong

**District**
Cheung Sha Wan

**Location**
4 Hing Wah Street

**Latitude**
22.343783

**Longitude**
114.154917

**Start date**
20/12/2011

**End Date**

**Species**
Birds

**Measuring units**
Animals

**Susceptible**
19452

**Cases**
1

**Deaths**
1

**Destroyed**
0

**Slaughtered**
0

### Affected Population

A chicken carcass tested positive for highly pathogenic H5N1 avian influenza virus during regular surveillance on 20 December 2011.

### Outbreak (other report - submitted)

**Province**
Hong Kong

**District**
Tuen Mun

**Location**
133 Lung Mun Road

**Latitude**
22.367506

**Longitude**
113.929303

**Start date**
30/12/2011

**End Date**
30/12/2011

**Species**
Wild species

**Measuring units**
Animals

**Susceptible**
...

**Cases**
1

**Deaths**
1

**Destroyed**
0

**Slaughtered**
0
### Affected Population

A black-headed gull (*Chroicocephalus ridibundus*) was collected on 30 December 2011 at Tuen Mun. The black-headed gull is a common winter visitor in Hong Kong.

### Outbreak (other report - submitted)

<table>
<thead>
<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>HONG KONG</td>
<td>Lantau</td>
<td>Not applicable</td>
<td>Sha La Wan Soccer Pitch</td>
<td>22.287858</td>
<td>113.902082</td>
<td>01/01/2012</td>
<td>01/01/2012</td>
</tr>
</tbody>
</table>

#### Species

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

### Affected Population

A black-headed gull (*Chroicocephalus ridibundus*) was collected on 01 January 2012 at Lantau. The black-headed gull is a common winter visitor in Hong Kong.

### Outbreak (other report - submitted)

<table>
<thead>
<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>HONG KONG</td>
<td>Yuen Long</td>
<td>Not applicable</td>
<td>Lot 1520RP, DD123, Nam Sang Wai</td>
<td>22.468873</td>
<td>114.031082</td>
<td>12/01/2012</td>
<td>12/01/2012</td>
</tr>
</tbody>
</table>

#### Species

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

### Affected Population

A little egret (*Egretta garzetta*) was collected on 12 January 2012 at Yuen Long. The little egret is a common resident in Hong Kong.

### Outbreak (other report - submitted)

<table>
<thead>
<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>HONG KONG</td>
<td>Sham Tsengon</td>
<td>Not applicable</td>
<td>13 milestone, Castle Peak Road</td>
<td>22.36547</td>
<td>114.05719</td>
<td>01/01/2012</td>
<td>01/01/2012</td>
</tr>
</tbody>
</table>

#### Species

- **Birds**
  - Animals: 1
  - Susceptible: 1
  - Cases: 1
  - Deaths: 0
  - Destroyed: 0
  - Slaughtered: 0

### Affected Population

A goose carcass from unknown source was collected on 20 January 2012 at Anglers’ Beach of Sham Tsengon. The carcass was badly decomposed at the time of collection.

### Outbreak (other report - submitted)

<table>
<thead>
<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>HONG KONG</td>
<td>Yuen Long</td>
<td>Not applicable</td>
<td>Chun Yiu Square Playground</td>
<td>22.446875</td>
<td>114.023804</td>
<td>30/01/2012</td>
<td>30/01/2012</td>
</tr>
</tbody>
</table>

#### Species

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

### Affected Population

A black-headed gull (*Chroicocephalus ridibundus*) was collected on 30 January 2012 at Yuen Long. The black-headed gull is a common winter visitor in Hong Kong.

### Outbreak (other report - submitted)

<table>
<thead>
<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>HONG KONG</td>
<td>Tung Chung</td>
<td>Not applicable</td>
<td>Man Tung Road</td>
<td>22.291141</td>
<td>113.946973</td>
<td>30/01/2012</td>
<td>30/01/2012</td>
</tr>
</tbody>
</table>

#### Species

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

### Affected Population

A peregrine falcon (*Falco peregrinus calidus*) was collected on 30 January 2012 at Tung Chung. The peregrine falcon is a rare winter visitor in Hong Kong.
<table>
<thead>
<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>HONG KONG</td>
<td>Tuen Mun</td>
<td>Not applicable</td>
<td>Yau Oi Estate</td>
<td>22.389502</td>
<td>113.973954</td>
<td>30/01/2012</td>
<td>30/01/2012</td>
</tr>
</tbody>
</table>

**Species**  
Wild species

**Measuring units**  
Animals

**Susceptible**  
1

**Cases**  
1

**Deaths**  
0

**Destroyed**  
0

**Slaughtered**  
0

**Affected Population**

An Oriental Magpie Robin (Copsychus saularis) was collected on 30 January 2012 at Tuen Mun. The Oriental Magpie Robin is a common local resident in Hong Kong.

<table>
<thead>
<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>HONG KONG</td>
<td>Tuen Mun</td>
<td>Not applicable</td>
<td>Heung Sze Wui Road</td>
<td>22.393403</td>
<td>113.973447</td>
<td>06/02/2012</td>
<td>06/02/2012</td>
</tr>
</tbody>
</table>

**Species**  
Wild species

**Measuring units**  
Animals

**Susceptible**  
1

**Cases**  
1

**Deaths**  
0

**Destroyed**  
0

**Slaughtered**  
0

**Affected Population**

A little egret (Egretta garzetta) was collected on 6 February 2012 at Tuen Mun. The little egret is a common resident in Hong Kong.

<table>
<thead>
<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>HONG KONG</td>
<td>Yuen Long</td>
<td>Not applicable</td>
<td>No 14. Lane 2 Tung Tau Wai San Tsuen</td>
<td>22.4545</td>
<td>114.029269</td>
<td>07/02/2012</td>
<td>07/02/2012</td>
</tr>
</tbody>
</table>

**Species**  
Wild species

**Measuring units**  
Animals

**Susceptible**  
1

**Cases**  
1

**Deaths**  
0

**Destroyed**  
0

**Slaughtered**  
0

**Affected Population**

An Oriental Magpie Robin (Copsychus saularis) was collected on 7 February 2012 at Yuen Long. The Oriental Magpie Robin is a common local resident in Hong Kong.

<table>
<thead>
<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>HONG KONG</td>
<td>Tuen Mun</td>
<td>Not applicable</td>
<td>Heung Sze Wui Road</td>
<td>22.39306</td>
<td>113.972961</td>
<td>07/02/2012</td>
<td>07/02/2012</td>
</tr>
</tbody>
</table>

**Species**  
Wild species

**Measuring units**  
Animals

**Susceptible**  
1

**Cases**  
1

**Deaths**  
0

**Destroyed**  
0

**Slaughtered**  
0

**Affected Population**

A little egret (Egretta garzetta) was collected on 7 February 2012 at Tuen Mun. The little egret is a common resident in Hong Kong.

<table>
<thead>
<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>HONG KONG</td>
<td>Yuen Long</td>
<td>Not applicable</td>
<td>Nam Sang Wai Road</td>
<td>22.462315</td>
<td>114.031686</td>
<td>08/02/2012</td>
<td>08/02/2012</td>
</tr>
</tbody>
</table>

**Species**  
Wild species

**Measuring units**  
Animals

**Susceptible**  
1

**Cases**  
1

**Deaths**  
0

**Destroyed**  
0

**Slaughtered**  
0

**Affected Population**

A Grey Heron (Ardea cinerea) was collected on 8 February 2012 at Yuen Long. The Grey Heron is a common winter visitor in Hong Kong.
A Crested Goshawk (Accipiter trivirgatus) was collected on 24 February 2012 at Mongkok. The Crested Goshawk is an uncommon local resident in Hong Kong.

Outbreak (other report - submitted)

Province | District | Unit Type | Location | Latitude | Longitude | Start date | End Date
---|---|---|---|---|---|---|---
HONG KONG | Cheung Chau | Not applicable | 76 Hing Lung Back Street | 22.208417 | 114.029583 | 25/02/2012 | 25/02/2012

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

Affected Population

An Oriental Magpie Robin (Copsychus saularis) was collected on 25 February 2012 at Cheung Chau. The Oriental Magpie Robin is a common local resident in Hong Kong.

Outbreak (other report - submitted)

Province | District | Unit Type | Location | Latitude | Longitude | Start date | End Date
---|---|---|---|---|---|---|---
HONG KONG | Cheung Chau | Not applicable | 80 Hok Loo Lane | 22.206540 | 114.029652 | 27/02/2012 | 27/02/2012

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

Affected Population

An Oriental Magpie Robin (Copsychus saularis) was collected on 27 February 2012 at Cheung Chau. The Oriental Magpie Robin is a common local resident in Hong Kong.

Outbreak (other report - submitted)

Province | District | Unit Type | Location | Latitude | Longitude | Start date | End Date
---|---|---|---|---|---|---|---
HONG KONG | Tuen Mun | Not applicable | Castle Peak Power Station Plant B | 22.317347 | 113.923196 | 02/03/2012 | 02/03/2012

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

Affected Population

A black-headed gull (Chroicocephalus ridibundus) was collected on 2 March 2012 at Tuen Mun. The black-headed gull is a common winter visitor in Hong Kong.

Outbreak (other report - submitted)

Province | District | Unit Type | Location | Latitude | Longitude | Start date | End Date
---|---|---|---|---|---|---|---
HONG KONG | Ma On Shan | Not applicable | 80 South Perimeter Road | 22.303589 | 113.899532 | 12/03/2012 | 12/03/2012

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

Affected Population

A peregrine falcon (Falco peregrinus calidus) was collected on 3 March 2012 at Ma On Shan. The peregrine falcon is a rare winter visitor in Hong Kong.
A peregrine falcon (Falco peregrinus calidus) was collected on 12 March 2012 at Lantau. The peregrine falcon is a rare winter visitor in Hong Kong.

Outbreak (this report - submitted)

<table>
<thead>
<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>HONG KONG</td>
<td>Shek Kip Mei</td>
<td>Not applicable</td>
<td>Tai Hang Tung Recreation Ground</td>
<td>22.327681</td>
<td>114.17201</td>
<td>15/03/2012</td>
<td>15/03/2012</td>
</tr>
</tbody>
</table>

Affected Population

A house crow (Corvus splendens) was collected on 15 March 2012 at Shek Kip Mei. The house crow is an invasive bird species in Hong Kong.

Outbreak summary: Total outbreaks = 20 (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>Animals</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Birds</td>
<td>19452</td>
<td>2</td>
<td>2</td>
<td>19451</td>
<td>0</td>
</tr>
</tbody>
</table>

Epidemiology

Epidemiological comments

An intensive surveillance system is in place for all poultry farms, poultry markets and pet bird shops in Hong Kong. The H5N1 infected wild birds and goose carcass from unknown source were detected in ongoing surveillance programme on wild birds. The dates of the outbreaks are the same as the dates the birds were collected (i.e. 17 December 2011, 30 December 2011, 1 January 2012, 12 January 2012, 20 January 2012, 20 January 2012, 30 January 2012, 6 February 2012, 7 February 2012, 8 February 2012, 24 February 2012, 25 February 2012, 27 February 2012, 2 March 2012, 3 March 2012, 12 March 2012 and 15 March 2012 respectively).

A total of 19,451 poultry, including 15,569 chickens, 810 pigeons, 1,950 pheasants and 1,122 silky fowls were culled in the Cheung Sha Wan Temporary Wholesale Poultry Market on 21 December 2011. The Wholesale Poultry Market was closed. Importation of live poultry and movement of poultry in local farms is banned for 21 days.

Surveillance and monitoring of local chicken farms has been stepped up. No H5 virus was detected in samples taken from the 30 chicken farms in Hong Kong. The Wholesale Poultry Market was reopened on 12 January 2012.

Source of the outbreak(s) or origin of infection

* Unknown or inconclusive

Control Measures

<table>
<thead>
<tr>
<th>Applied</th>
<th>To be applied</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Stamping out</td>
<td>• No Planned Control Measures</td>
</tr>
<tr>
<td>• Quarantine</td>
<td></td>
</tr>
<tr>
<td>• Movement control inside the country</td>
<td></td>
</tr>
<tr>
<td>• Screening</td>
<td></td>
</tr>
<tr>
<td>• Zoning</td>
<td></td>
</tr>
<tr>
<td>• Disinfection of infected premises/establishment(s)</td>
<td></td>
</tr>
<tr>
<td>• Dipping / Spraying</td>
<td></td>
</tr>
</tbody>
</table>

Animals treated

No

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>Regional Reference Laboratory</td>
<td>Centre of Influenza Research, School of Public Health, Li Ka Shing Faculty of Medicine, University of Hong Kong</td>
<td>Wild species</td>
<td>gene sequencing</td>
<td>Pending</td>
<td>Pending</td>
</tr>
<tr>
<td>Regional Reference Laboratory</td>
<td>Centre of Influenza Research, School of Public Health, Li Ka Shing Faculty of Medicine, University of Hong Kong</td>
<td>Wild species</td>
<td>gene sequencing</td>
<td>Pending</td>
<td>Pending</td>
</tr>
<tr>
<td>National laboratory</td>
<td>Tai Lung Veterinary Laboratory, Agriculture, Fisheries &amp; Conservation Department</td>
<td>Wild species</td>
<td>virus isolation</td>
<td>22/03/2012</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>Tai Lung Veterinary Laboratory, Agriculture, Fisheries &amp; Conservation Department</td>
<td>Wild species</td>
<td>Immunohistochemical test</td>
<td>17/03/2012</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>Tai Lung Veterinary Laboratory, Agriculture, Fisheries &amp; Conservation Department</td>
<td>Wild species</td>
<td>Polymerase chain reaction (PCR)</td>
<td>17/03/2012</td>
<td>Positive</td>
</tr>
<tr>
<td>National laboratory</td>
<td>Tai Lung Veterinary Laboratory, Agriculture, Fisheries &amp; Conservation Department</td>
<td>Wild species</td>
<td>Virus isolation</td>
<td>19/03/2012</td>
<td>Positive</td>
</tr>
</tbody>
</table>

### Future Reporting

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

There are 1 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.