## 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 report**
13/04/2012

**Number Of Reported Outbreaks**
Submitted= 21, Draft= 0

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

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

**Phone**
852 2150 6602

**Fax**
852 2199 7050

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

**Province**
HONG KONG

**District**
Tin Shui Wai, Cheung Sha Wan, Tuen Mun

**Location**
5 Tin Wu Road, 4 Hing Wah Street, 133 Lung Mun Road

**Latitude/Longitude**
22.45353/114.002912, 22.343783/114.154917, 22.367506/113.929303

**Start date/End Date**

## Outbreak (other report - submitted)

### Affected Population

**Province**
HONG KONG

**District**
Tin Shui Wai, Cheung Sha Wan, Tuen Mun

**Location**
5 Tin Wu Road, 4 Hing Wah Street, 133 Lung Mun Road

**Species**
Animals, Birds, Wild species

**Measuring units**
Susceptible, Cases, Deaths, Destroyed, Slaughtered

**Cases/Deaths/Destroyed/Slaughtered**
1/1/0/0

**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.

### Affected Population

**Province**
HONG KONG

**District**
Cheung Sha Wan

**Location**
4 Hing Wah Street

**Species**
Animals, Birds, Wild species

**Measuring units**
Susceptible, Cases, Deaths, Destroyed, Slaughtered

**Cases/Deaths/Destroyed/Slaughtered**
1/1/19451/0

**Affected Population**

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

### Affected Population

**Province**
HONG KONG

**District**
Tuen Mun

**Location**
133 Lung Mun Road

**Species**
Animals, Wild species

**Measuring units**
Susceptible, Cases, Deaths, Destroyed, Slaughtered

**Cases/Deaths/Destroyed/Slaughtered**
1/1/0/0

**Affected Population**

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

Province | District | Unit Type | Location | Latitude | Longitude | Start date | End Date
--- | --- | --- | --- | --- | --- | --- | ---
HONG KONG | Lantau | Not applicable | Sha La Wan Soccer Pitch | 22.287858 | 113.902082 | 01/01/2012 | 01/01/2012

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 01 January 2012 at Lantau. 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 | Yuen Long | Not applicable | Lot 1520RP, DD123, Nam Sang Wai | 22.468873 | 114.031082 | 12/01/2012 | 12/01/2012

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

Province | District | Unit Type | Location | Latitude | Longitude | Start date | End Date
--- | --- | --- | --- | --- | --- | --- | ---
HONG KONG | Sham Tsengon | Not applicable | 13 milestone, Castle Peak Road | 22.36547 | 114.05719 | 20/01/2012 | 20/01/2012

Species | Measuring units | Susceptible Cases | Deaths | Destroyed | Slaughtered
--- | --- | --- | --- | --- | ---
Birds | Animals | ... | 1 | 1 | 0 | 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)

Province | District | Unit Type | Location | Latitude | Longitude | Start date | End Date
--- | --- | --- | --- | --- | --- | --- | ---
HONG KONG | Yuen Long | Not applicable | Chun Yn Square Playground | 22.446875 | 114.023804 | 30/01/2012 | 30/01/2012

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 30 January 2012 at Tung Chung. The peregrine falcon is a rare winter visitor in Hong Kong.

Outbreak (other report - submitted)

Province | District | Unit Type | Location | Latitude | Longitude | Start date | End Date
--- | --- | --- | --- | --- | --- | --- | ---
HONG KONG | Tung Chung | Not applicable | Man Tung Road | 22.291141 | 113.946973 | 30/01/2012 | 30/01/2012

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 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>
<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>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>
<td>Oriental Magpie Robin (Copsychus saularis)</td>
<td>Animals</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></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>
<td>Little Egret (Egretta garzetta)</td>
<td>Animals</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></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>
<td>Oriental Magpie Robin (Copsychus saularis)</td>
<td>Animals</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></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>
<td>Little Egret (Egretta garzetta)</td>
<td>Animals</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></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>
<td>Grey Heron (Ardea cinerea)</td>
<td>Animals</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>131 Argyle Street</td>
<td>22.323197</td>
<td>114.174369</td>
<td>24/02/2012</td>
<td>24/02/2012</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

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.

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.

An Oriental Magpie Robin (Copsychus saularis) was collected on 8 February 2012 at Yuen Long. The Oriental Magpie Robin is a common local resident in Hong Kong.

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.

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

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: HONG KONG
District: Cheung Chau
Unit Type: Not applicable
Location: 80 Hok Loo Lane
Latitude: 22.208543
Longitude: 114.029652
Start Date: 27/02/2012
End Date: 27/02/2012

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: HONG KONG
District: Tuen Mun
Unit Type: Not applicable
Location: Castle Peak Power Station Plant B
Latitude: 22.373747
Longitude: 113.923196
Start Date: 02/03/2012
End Date: 02/03/2012

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: HONG KONG
District: Ma On Shan
Unit Type: Not applicable
Location: Kam Fung Court
Latitude: 22.422176
Longitude: 114.224718
Start Date: 03/03/2012
End Date: 03/03/2012

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.

Outbreak (other report - submitted)

Province: HONG KONG
District: Lantau
Unit Type: Not applicable
Location: 80 South Perimeter Road
Latitude: 22.303589
Longitude: 113.899532
Start Date: 12/03/2012
End Date: 12/03/2012

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 (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>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>

<table>
<thead>
<tr>
<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>Wild species</td>
<td>Animals</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></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 (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>Hung Hom</td>
<td>Not applicable</td>
<td>19 Station Lane</td>
<td>22,367558</td>
<td>114,185089</td>
<td>04/04/2012</td>
<td>04/04/2012</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<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>Wild species</td>
<td>Animals</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Affected Population

An Oriental Magpie Robin (Copsychus saularis) was collected on 4 April 2012 at Hung Hom. The Oriental Magpie Robin is a common local resident in Hong Kong.

### Outbreak summary: Total outbreaks = 21 (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></td>
<td>19</td>
<td>19</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, 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, 15 March 2012 and 4 April 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. 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

- Stamping out
- Quarantine
- Movement control inside the country
- Screening
- Zoning

To be applied: No Planned Control Measures

Vaccination Prohibited: No
• Disinfection of infected premises/establishment(s)
• Dipping / Spraying

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></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>10/04/2012</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>06/04/2012</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>06/04/2012</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.