Follow-up report No.: 20

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
27/07/2012

Date of Start of Event
17/12/2011

Date Submitted To OIE
27/07/2012

Diagnosis
Laboratory (advanced)

Date Of Last Occurrence
13/12/2011

Number Of Reported Outbreaks
Submitted= 25, 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

Unit Type
Not applicable

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

Unit Type
Not applicable

Location
4 Hing Wah Street

Latitude
22.343783

Longitude
114.154917

Start date
20/12/2011

End Date
20/03/2012

Species
Birds

Measuring units
Animals

Susceptible
19452

Cases
1

Deaths
1

Destroyed
19451

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

Unit Type
Not applicable

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
1

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 Lo 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**

<table>
<thead>
<tr>
<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>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

**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>22.46873</td>
<td>114.031082</td>
<td>12/01/2012</td>
<td>12/01/2012</td>
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</tbody>
</table>

**Species**

<table>
<thead>
<tr>
<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>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**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>20/01/2012</td>
<td>20/01/2012</td>
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**Species**

<table>
<thead>
<tr>
<th>Measuring units</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Destroyed</th>
<th>Slaughtered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds</td>
<td>Animals</td>
<td>...</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

**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 Yin Square Playground</td>
<td>22.446875</td>
<td>114.023804</td>
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</table>

**Species**

<table>
<thead>
<tr>
<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>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

**Species**

<table>
<thead>
<tr>
<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>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**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>
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<td>0</td>
<td>0</td>
</tr>
<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>
<td>Wild species</td>
<td>Animals</td>
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<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<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>
<td>Wild species</td>
<td>Animals</td>
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<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>HONG KONG</td>
<td>Tuen Mun</td>
<td>Not applicable</td>
<td>Heung Sze Wui Road</td>
<td>22.39306</td>
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<td>07/02/2012</td>
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<td>0</td>
<td>0</td>
</tr>
<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>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>HONG KONG</td>
<td>Mongkok</td>
<td>Not applicable</td>
<td>131 Argyle Street</td>
<td>22.323197</td>
<td>114.174369</td>
<td>24/02/2012</td>
<td>24/02/2012</td>
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<td>Animals</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</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 06 February 2012 at Tuen Mun. The little egret is a common 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 7 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)**

<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>Cheung Chau</td>
<td>Not applicable</td>
<td>76 Hing Lung Back Street</td>
<td>22.208417</td>
<td>114.029583</td>
<td>25/02/2012</td>
<td>25/02/2012</td>
</tr>
</tbody>
</table>

**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)**

<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>Cheung Chau</td>
<td>Not applicable</td>
<td>80 Hok Loo Lane</td>
<td>22.208543</td>
<td>114.029652</td>
<td>27/02/2012</td>
<td>27/02/2012</td>
</tr>
</tbody>
</table>

**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)**

<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>Castle Peak Power Station Plant B</td>
<td>22.373747</td>
<td>113.923196</td>
<td>02/03/2012</td>
<td>02/03/2012</td>
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</tbody>
</table>

**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)**

<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>Ma On Shan</td>
<td>Not applicable</td>
<td>Kam Fung Court</td>
<td>22.422176</td>
<td>114.224718</td>
<td>03/03/2012</td>
<td>03/03/2012</td>
</tr>
</tbody>
</table>

**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)

**Province** | **District** | **Unit Type** | **Location** | **Latitude** | **Longitude** | **Start date** | **End Date**
--- | --- | --- | --- | --- | --- | --- | ---
Hong Kong | Shek Kip Mei | Not applicable | Tai Hang Tung Recreation Ground | 22.327681 | 114.17201 | 15/03/2012 | 15/03/2012

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

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 (other report - submitted)

**Province** | **District** | **Unit Type** | **Location** | **Latitude** | **Longitude** | **Start date** | **End Date**
--- | --- | --- | --- | --- | --- | --- | ---
Hong Kong | Hung Hom | Not applicable | 19 Station Lane | 22.307558 | 114.185089 | 04/04/2012 | 04/04/2012

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

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 (other report - submitted)

**Province** | **District** | **Unit Type** | **Location** | **Latitude** | **Longitude** | **Start date** | **End Date**
--- | --- | --- | --- | --- | --- | --- | ---
Hong Kong | Yuen Long | Not applicable | Royal Palms | 22.488369 | 114.056706 | 27/04/2012 | 27/04/2012

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

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 (other report - submitted)

**Province** | **District** | **Unit Type** | **Location** | **Latitude** | **Longitude** | **Start date** | **End Date**
--- | --- | --- | --- | --- | --- | --- | ---
Hong Kong | Yuen Long | Not applicable | 28 Hong Yip Street | 22.449354 | 114.032616 | 18/06/2012 | 18/06/2012

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

A Crested Myna (Acridotheres cristatellus) was collected on 27 April 2012 at Yuen Long. The Crested Myna 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 | Mong Kok | Not applicable | Yuen Po Street | 22.32596 | 114.17389 | 25/06/2012 | 25/06/2012

**Species** | **Measuring units** | **Susceptible** | **Cases** | **Deaths** | **Destroyed** | **Slaughtered**
--- | --- | --- | --- | --- | --- | ---
Birds | Animals | 1453 | 1 | 0 | 0 | 0

A scalpy-breasted munia (Lonchura punctulata) was collected on 18 June 2012 at Yuen Long. The scalpy-breasted munia 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 | Mong Kok | Not applicable | Yuen Po Street | 22.32596 | 114.17389 | 25/06/2012 | 25/06/2012

**Species** | **Measuring units** | **Susceptible** | **Cases** | **Deaths** | **Destroyed** | **Slaughtered**
--- | --- | --- | --- | --- | --- | ---
Birds | Animals | 1453 | 1 | 0 | 0 | 0

A sample collected from a bird cage holding Oriental magpie robin (Copsychus saularis) in a pet bird shop on 25 June 2012 was tested positive for H5N1 highly pathogenic avian influenza (HPAI) during regular surveillance.
A house crow (Corvus splendens) was collected on 29 June 2012 at Kowloon Tong. The house crow is an invasive bird species in Hong Kong.

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, 6 January 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, 4 April 2012, 27 April 2012, 18 June 2012 and 29 June 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.

A sample collected from a pet bird shop during routine surveillance on 25 June 2012 was tested positive for H5N1 HPAI. A total of 1,453 pet birds were removed from the shop and disposed of on 5 July 2012. The Yuen Po Street Bird Garden where the pet bird shop was located was closed for 21 days. It was reopened on 26 July 2012.

Source of the outbreak(s) or origin of infection

• Unknown or inconclusive

Control Measures

Applied

• Quarantine
• Movement control inside the country
• Screening
• Zoning
• Disinfection of infected premises/establishment(s)
• Dipping / Spraying

Animals treated

No

To be applied

• No Planned Control Measures

Vaccination Prohibited

No

Country or 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, the University of Hong Kong</td>
<td>Birds</td>
<td>gene sequencing</td>
<td>20/07/2012</td>
<td>Positive</td>
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<tr>
<td>Regional Reference Laboratory</td>
<td>Centre of Influenza Research, School of Public Health, Li Ka Shing Faculty of Medicine, the University of Hong Kong</td>
<td>Wild species</td>
<td>gene sequencing</td>
<td>10/07/2012</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.