

# Follow-up report No.: 1

Report reference: , OIE Ref: 4553, Report Date: 20/03/2006, Country: Hong Kong (P.R. China)

## Report Summary

Disease	Highly pathogenic avian influenza	Animal type	Terrestrial
Causal Agent	avian influenza virus	Serotype(s)	H5N1
Clinical Signs	Yes	Reason	Reoccurrence of a listed disease
Date of confirmation of Event	17/01/2006	Date of Start of Event	10/01/2006
Date of report	20/03/2006	Diagnosis	Laboratory (advanced)
Date of last occurrence	01/2005	Number of reported outbreaks	Submitted= 16, Draft= 0
Name of Sender of the report	Dr Kitman Dyrting	Address	5th Floor, Cheung Sha Wan Government Offices 303 Cheung Sha Wan Road Kowloon Hong Kong HONG KONG
Position	Senior Veterinary Officer	Telephone	852 2455 2156
Fax	852 2461 8421	Email	kc_dyrting@afcd.gov.hk
Entered by	Dr Antonio Petrini		

## Outbreak (other report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	New territories		Not applicable	Tai Po	22,4491	114,1536	28/12/2005	28/12/2005
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
<b>Affected Population</b>		a single male adult oriental magpie robin ( <i>Copsychus saularis</i> )						

## Outbreak (this report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Hong Kong Island		Not applicable	Shouson hill	22,2415	114,1772	25/02/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
<b>Affected Population</b>		common magpie ( <i>Pica pica sericea</i> )						

## Outbreak (this report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Shek Kip Mei		Not applicable	Shek Kip Mei	22,2453	114,2442	17/01/2007	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		

Affected Population	house crow ( <i>Corvus splendens</i> )
---------------------	--

### Outbreak (this report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Sham Shui Po Dis		Not applicable	Cheung Sha Wan	22,3123	114,1602	21/02/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
Affected Population		house crow ( <i>Corvus splendens</i> )						

### Outbreak (this report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Sham Shui Po		Not applicable	Sham Shui Po	22,3349	114,1423	20/02/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
Affected Population		large-billed crow ( <i>Corvus macrorhynchos</i> )						

### Outbreak (this report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Wan Chai		Not applicable	Wan Chai	22,2774	114,1829	20/02/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
Affected Population		white-rumped munia ( <i>Lonchura striata</i> )						

### Outbreak (this report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Southern District		Not applicable	Repulse Bay	22,2387	114,1819	20/02/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
Affected Population		common magpie ( <i>Pica pica sericea</i> )						

### Outbreak (this report - submitted)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Sham Shui Po		Not applicable	Sham Shui Po	22,3274	114,1527	16/02/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
Affected Population		common magpie ( <i>Pica pica sericea</i> )						

**Outbreak (this report - submitted)**

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Yau Tsim Mong		Not applicable	Mong Kok	22,317	114,1612	07/02/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
<b>Affected Population</b>		Japanese white-eye ( <i>Zosterops japonica simplex</i> )						

**Outbreak (this report - submitted)**

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Tuen Mun		Not applicable	Tuen Mun	22,3934	113,9291	03/02/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
<b>Affected Population</b>		little egret ( <i>Egretta garzetta</i> )						

**Outbreak (this report - submitted)**

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Tuen Mun		Not applicable	Tuen Mun	22,4085	113,9531	06/02/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	1	1	1	0	0		
<b>Affected Population</b>								
During the recent enhanced local dead wild bird surveillance exercise (in progress since October 2005), during which all dead birds found in Hong Kong are being collected and submitted for avian influenza testing, 2 dead chickens from different locations were also collected and submitted.								
These chickens were not found in a poultry farm or live poultry markets.								

**Outbreak (this report - submitted)**

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	New territories		Not applicable	Sham Tseng	22,3547	114,0367	03/12/2005	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
<b>Affected Population</b>		common magpie ( <i>Pica pica sericea</i> )						

**Outbreak (this report - submitted)**

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	New territories		Not applicable	Sha Tau Kok	22,5387	114,2159	31/01/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	1	1	1	0	0		
<b>Affected Population</b>								
During the recent enhanced local dead wild bird surveillance exercise (in progress since October 2005), during which all dead birds found in Hong Kong are being collected and submitted for avian influenza testing, 2 dead chickens from different locations were also collected and submitted.								
These chickens were not found in a poultry farm or live poultry markets.								

**Outbreak (this report - submitted)**

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	Wong Tai Sin		Not applicable	Wong Tai Sin	22,3434	114,197	31/01/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
<b>Affected Population</b>		crested myna ( <i>Acridotheres cristatellus</i> )						

**Outbreak (this report - submitted)**

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	New territories		Not applicable	Sha Tau Kok	22,5377	114,2178	26/01/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
<b>Affected Population</b>		Oriental magpie robin ( <i>Copsychus saularis</i> )						

**Outbreak (this report - submitted)**

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
HONG KONG	New territories		Not applicable	Tai Po	22,4472	114,1565	10/01/2006	17/01/2007
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Wild species	Animals	1	1	1	0	0		
<b>Affected Population</b>		Oriental magpie robin ( <i>Copsychus saularis</i> )						

**Outbreak summary: Total outbreaks = 16 (Submitted)**

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Wild species	14	14	14	0	0
Birds	2	2	2	0	0

**Epidemiology**

Epidemiological comments
<p><i>Copsychus saularis</i> is distributed in the Indian subcontinent, Southeast Asia, Indochina, the Philippines, the Andamans, Greater Sundas and southern China south of the Yangtze River. This bird is a common resident in Hong Kong. It inhabits a wide range of habitats such as gardens/parks, villages, secondary forests, open forests and mangroves. Insects are the main diet of the bird.</p> <p>All poultry farms within 5 km of where the Oriental magpie robin was found have been checked and no unusual mortality or illness was detected. An intensive surveillance system is in place on all poultry farms and other locations.</p> <p>Local poultry farms are routinely under a constant monitoring and surveillance programme involving serological and virological testing and have individual farm biosecurity plans, which include bird proofing of all sheds. All chicken farms are routinely vaccinated with inactivated H5N2 vaccine and each batch of chickens has 60 unvaccinated individually identified sentinels, which are monitored over the production life of the batch.</p> <p>The virus was confirmed as a highly pathogenic H5N1 isolate by PCR(2) and sequencing of the HA connecting peptide region. Molecular analysis showed that the HA protein of A/MRb/HK/75/06 [H5N1] has the multiple basic amino acids to satisfy the motif of a highly pathogenic avian influenza virus for chickens, but there is a deletion in the second to last position of the connecting peptide (LRERRR-R).</p> <p>Phylogenetic analysis showed that A/MRb/HK/75/06 [H5N1] belongs to H5N1 genotype V, which has previously been recorded in southern China, Japan and South Korea. Genotype V differs from the dominant genotype Z, which is widespread throughout Asia, in the source of the PA gene. The H5-HA gene of this virus has high homology (98%) to the HA gene of A/Dk/Hunan/5806/03 [H5N1].</p>

<b>Source of Infection</b>	• Unknown or inconclusive
----------------------------	---------------------------

### Control Measures

<b>Applied</b>	• Screening	<b>To be applied</b>	• No Planned Control Measures
<b>Animals treated</b>	No	<b>Vaccination Prohibited</b>	No

### Country / Zone

<b>Country or zone</b>	the whole country
------------------------	-------------------

### Diagnostic test results

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
Local laboratory	The University of Hong Kong (HKU)	Wild species	gene sequencing	18/01/2006	Positive
National laboratory	Tai Lung Veterinary Laboratory, AFCD	Wild species	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	17/01/2006	Positive
National laboratory	Tai Lung Veterinary Laboratory, AFCD	Wild species	haemagglutination inhibition test (HIT)	17/01/2006	Positive

### Future Reporting

<b>What further reports will be submitted in relation to this event?</b>	The event is resolved. No more reports will be submitted.
--	---

## Outbreak map

