

Follow-up report No.4

Report reference: , Reference OIE : 16715, Report Date : 16/12/2014, Country : Japan

Report Summary

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	Tokyo 100-8950	Date submitted to OIE	16/12/2014

Animal type	Terrestrial	Date of report	16/12/2014
Disease	Highly pathogenic avian influenza	Date of start of the event	03/11/2014
Causal Agent	Highly pathogenic avian influenza virus	Date of pre-confirmation of the event	13/11/2014
Serotype(s)	H5N8	Date of last occurrence	16/04/2014
Reason	Reoccurrence of a listed disease	Diagnosis	Clinical, Laboratory (advanced)
Country or zone	the whole country	Clinical signs	Yes
Number of reported outbreaks	submitted= 7, Draft= 0		

Outbreak details

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
SHIMANE-other report - submitted	-			Not applicable	Yasugi-shi	35.431442	133.250915	03/11/2014	13/11/2014
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Tundra Swan:Anatidae(Cygnus columbianus)	Animals	...	1	0	0	0			
Affected Population	2 fecal samples from Cygnus columbianus (tundra swan)								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
TOTTORI-other report - submitted	-			Not applicable	Tottori-shi	35.501133	134.235091	18/11/2014	26/11/2014
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Anatidae (unidentified):Anatidae(A natidae (incognita))	Animals	...	1	0	0	0			
Affected Population	A fecal sample from Anatidae (species are unidentified since only fecal samples were collected)								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
CHIBA-other report - submitted	-	Nagara-machi		Not applicable	Chosei-gun	35.431122	140.227086	18/11/2014	22/11/2014
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Anatidae (unidentified):Anatidae(A natidae (incognita))	Animals	...	1	0	0	0			
Affected Population	2 fecal samples from Anatidae (species are unknown since only fecal samples were collected)								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
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Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
KAGOSHIMA- (this report - submitted)	-			Not applicable	Izumi-shi	32.090572	130.352753	23/11/2014	29/11/2014
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
White-naped crane:Gruidae(Grus vipio)	Animals	...	1	1	0	0			
Affected Population	A weakened Grus vipio (white-naped crane) was found and tested.								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
KAGOSHIMA- (this report - submitted)	-			Not applicable	Izumi-shi	32.090572	130.352753	01/12/2014	06/12/2014
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Gruidae (unidentified):Gruidae(Gruidae (incognita))	Animals	0	0			
Affected Population	Water collected from roost of cranes (not from animals).								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
KAGOSHIMA- (this report - submitted)	-			Not applicable	Izumi-shi	32.090572	130.352753	07/12/2014	10/12/2014
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Hooded crane:Gruidae(Grus monacha)	Animals	...	1	1	0	0			
Affected Population	A dead Grus monacha (hooded crane) was found and tested.								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
MIYAZAKI- (this report - submitted)	-	Kitagawa-machi		Farm	Nobeoka-shi	32.67972	131.697586	14/12/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	4031	31	31	4000	0			
Affected Population	Poultry (broiler breeder)								

Outbreak summary: Total outbreaks = 7 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Tundra Swan		1	0	0	0
Anatidae (unidentified)		2	0	0	0
White-naped crane		1	1	0	0
Gruidae (unidentified)				0	0
Hooded crane		1	1	0	0
Birds	4031	31	31	4000	0

Epidemiology

Epidemiological comments

Epidemiological comments
Source of the outbreak(s) or origin of infection
• Unknown or inconclusive
Outbreaks in wild birds Case 1: A weakened <i>Grus vipio</i> (white-naped crane) was collected on 23 November 2014 and tested at Kagoshima University. It was confirmed on 29 November 2014 that the bird was infected with H5N8 influenza A virus. The result of gene sequencing indicated that a HA0 cleavage site of the amino acid sequence was consistent with that of highly pathogenic avian influenza virus. Case 2: Water collected from roost* of cranes on 1 December 2014 was tested against avian influenza virus. It was confirmed on 6 December 2014 that H5N8 influenza A virus was detected in a sample. The result of gene sequencing indicated that a HA0 cleavage site of the amino acid sequence was consistent with that of highly pathogenic avian influenza virus. *artificial wet paddy in a nationally-designated bird sanctuary in Izumi-shi Case 3: A dead <i>Grus monacha</i> (hooded crane) was collected on 7 December 2014 and tested against avian influenza virus. It was confirmed on 10 December 2014 that the bird was infected with H5N8 influenza A virus. The result of gene sequencing indicated that a HA0 cleavage site of the amino acid sequence was consistent with that of highly pathogenic avian influenza virus. Outbreak in domestic birds On 15 December 2014, the local veterinary service in Miyazaki Prefecture received a notification from a broiler breeder farm on an increase in the number of dead birds (one bird on 13 December, 12 birds on 14 December and 19 birds on 15 December). The samples were sent to the laboratory of local veterinary service (Miyazaki Livestock Hygiene Centre) and the samples from dead birds were confirmed to be influenza A virus positive by antigen-capture kits. On the same day, the centre started RT-PCR test and confirmed that the subtype was H5 on 16 December 2014 (midnight of 15 December 2014). Stamping-out policy was applied to the affected farm. Destruction of all the susceptible birds in the affected farm (approx. 4,000 birds) was completed in the morning of 16 December 2014. Movement restrictions are imposed on the farms within the radius of 3km of the affected farm. Shipment restrictions are imposed on the farms within the radius of 3-10km of the affected farm. The N-type has not yet been identified.

Source of the outbreak(s) or origin of infection
• Unknown or inconclusive

Measures applied	
Applied	To be applied
<ul style="list-style-type: none"> • control of wildlife reservoirs • stamping out • quarantine • movement control inside the country • screening • disinfection of infected premises/establishment(s) 	<ul style="list-style-type: none"> • no planned control measures
Animals treated	Vaccination Prohibited
No	Yes

Diagnostic test results					
Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
Local laboratory	Miyazaki Livestock Hygiene Centre	Birds	reverse transcription - polymerase chain reaction (RT-PCR)	16/12/2014	Positive
Private Laboratory	Kagoshima University	Hooded crane	gene sequencing	10/12/2014	Positive
Private Laboratory	Kagoshima University	Hooded crane	reverse transcription - polymerase chain reaction (RT-PCR)	09/12/2014	Positive
Private Laboratory	Kagoshima University	Hooded crane	virus isolation	09/12/2014	Positive
Private Laboratory	Kagoshima University	Gruidae (unidentified)	gene sequencing	06/12/2014	Positive
Private Laboratory	Kagoshima University	Gruidae (unidentified)	reverse transcription - polymerase chain reaction (RT-PCR)	05/12/2014	Positive
Private Laboratory	Kagoshima University	Gruidae (unidentified)	virus isolation	04/12/2014	Positive
Private Laboratory	Kagoshima University	White-naped crane	gene sequencing	29/11/2014	Positive
Private Laboratory	Kagoshima University	White-naped crane	reverse transcription - polymerase chain reaction (RT-PCR)	28/11/2014	Positive

Future Reporting
The event is continuing. Weekly follow-up reports will be submitted.

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Outbreak maps

