

Follow-up report No.9

Report reference: , Reference OIE : 16909, Report Date : 09/01/2015, Country : Japan

Report Summary

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	Tokyo 100-8950	Date submitted to OIE	09/01/2015

Animal type	Terrestrial	Date of report	09/01/2015
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 (basic), Laboratory (advanced)
Country or zone	the whole country	Clinical signs	Yes
Number of reported outbreaks	submitted= 12, 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(Anatidae (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(Anatidae (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-other 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-other 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-other 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:
GIFU-other report - submitted	-			Not applicable	Kani-shi	35.426121	137.061011	12/12/2014	20/12/2014
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Mandarin Duck:Anatidae(Aix galericulata)	Animals	...	1	1	0	0			
Affected Population	A dead Aix galericulata (Mandarin duck) was found and tested.								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
MIYAZAKI-other report - submitted	-	Kitagawa-machi		Farm	Nobeoka-shi	32.67972	131.697586	14/12/2014	16/12/2014
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	4031	31	31	4000	0			
Affected Population	Poultry (broiler breeder)								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
KAGOSHIMA-other report - submitted	-			Not applicable	Izumi-shi	32.090572	130.352753	17/12/2014	19/12/2014
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.								

Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
MIYAZAKI-other report - submitted	-	Takaoka-cho		Farm	Miyazaki-shi	31.962219	131.299922	28/12/2014	29/12/2014
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	42030	30	30	42000	0			
Affected Population	Poultry (broiler)								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
YAMAGUCHI-other report - submitted	-			Farm	Nagato-shi	34.371919	131.1865	29/12/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	33017	17	17	33000	0			
Affected Population	Poultry (broiler breeder)								

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	03/01/2015	07/01/2015
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.								

Outbreak summary: Total outbreaks = 12 (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		3	3	0	0
Mandarin Duck		1	1	0	0
Birds	79078	78	78	79000	0

Epidemiology

Epidemiological comments

Follow-up information on the outbreak in poultry reported in the follow-up report No. 4 (Miyazaki-1):

On 31 December 2014, shipment restrictions (3-10 km radius around the affected farm) were lifted since the second confirmation test of the farm within the movement restriction zones proved freedom from avian influenza virus. Both confirmation tests used clinical inspection, serum antibody test and virus isolation and obtained negative results in all the tests.

On 7 January 2015, movement restrictions were lifted since 21 days had passed without any new outbreaks after control measures including stamping out had been completed on 16 December 2014.

On 26 December 2014, the National Institute of Animal Health (NIAH) completed whole-genome sequencing analysis of the isolated H5N8 virus and found that this virus is not directly related to the viruses isolated from the previous outbreaks either in Kumamoto in April 2014 (poultry) or in Chiba in November 2014 (Anatidae, reported in follow-up report No. 1) due to the partial difference in the genome sequences.

Follow-up information on the outbreak in poultry reported in the follow-up report No. 7 (Miyazaki-2):

On 31 December 2014, the NA subtype was confirmed as N8 by NIAH.

On 2 January 2015, the first confirmation test of the 5 farms within the movement restriction zones proved freedom from avian influenza virus. Movement restrictions and shipment restrictions are still in force.

Follow-up information on the outbreak in poultry reported in the follow-up report No. 8 (Yamaguchi):

On 30 December 2014, destruction of all the susceptible birds in the affected farm (approx. 33,000 birds) was completed. Then the disinfection of affected farm premises was completed on 1 January 2015.

On 30 December 2014, the first confirmation test of the 10 farms within the movement restriction zones proved freedom from avian influenza virus. Movement restrictions and shipment restrictions are still in force.

On 31 December 2014, NIAH confirmed that the isolated virus is highly pathogenic to chickens based on gene sequencing and also they identified the NA subtype as N8.

An additional case in a wild bird:

A dead Grus monacha (hooded crane) was collected on 3 January 2015 and tested for avian influenza virus. It was confirmed on 7 January that the bird was infected with H5N8 influenza A virus. The result of gene sequencing indicated that a HA cleavage site of the amino acid sequence was consistent with that of highly pathogenic avian influenza virus.

Source of the outbreak(s) or origin of infection

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An additional case in a wild bird:

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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
Private Laboratory	Kagoshima University	Hooded crane	reverse transcription - polymerase chain reaction (RT-PCR)	06/01/2015	Positive
Private Laboratory	Kagoshima University	Hooded crane	virus isolation	06/01/2015	Positive
Private Laboratory	Kagoshima University	Hooded crane	gene sequencing	07/01/2015	Positive

Future Reporting

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

Outbreak maps

