



**Highly pathogenic avian influenza,
Bhutan**

Information received on 11/01/2013 from Dr Karma Dukpa, Director General, Department of Livestock, Ministry of Agriculture and Forests, THIMPHU, Bhutan

Summary

Report type	Follow-up report No. 8
Date of start of the event	30/12/2011
Date of pre-confirmation of the event	08/01/2012
Report date	11/01/2013
Date submitted to OIE	11/01/2013
Reason for notification	Reoccurrence of a listed disease
Date of previous occurrence	25/03/2010
Manifestation of disease	Clinical disease
Causal agent	Highly pathogenic avian influenza virus
Serotype	H5N1
Nature of diagnosis	Clinical, Laboratory (basic), Laboratory (advanced), Necropsy
This event pertains to	a defined zone within the country
Related reports	Immediate notification (09/01/2012) Follow-up report No. 1 (17/01/2012) Follow-up report No. 2 (18/01/2012) Follow-up report No. 3 (01/03/2012) Follow-up report No. 4 (02/03/2012) Follow-up report No. 5 (09/03/2012) Follow-up report No. 6 (20/04/2012) Follow-up report No. 7 (25/10/2012) Follow-up report No. 8 (11/01/2013)

New outbreaks (1)

Outbreak 1 (BHT_HPAI_2012_01)	Farm Goan, Lhamizingkha, Dagana, Dagana					
Date of start of the outbreak	19/12/2012					
Outbreak status	Continuing (or date resolved not provided)					
Epidemiological unit	Village					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	970	18	18	952	0
Affected population	From 19 to 30 December 2012, 18 poultry died in a backyard. All the birds were free-ranging birds. Ten birds had died in the village about a month before, but it was not reported at that time. Seven samples were collected from the five houses in the vicinity which include 93 free-ranging birds and were sent to the National Centre for Animal Health (NCAH) for real-time PCR; two were positive.					

Summary of outbreaks	Total outbreaks: 1					
Total animals affected	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	970	18	18	952	0
Outbreak statistics	Species	Apparent morbidity rate	Apparent mortality rate	Apparent case fatality rate	Proportion susceptible animals lost*	
	Birds	1.86%	1.86%	100.00%	100.00%	
*Removed from the susceptible population through death, destruction and/or slaughter						

Epidemiology

Source of the	
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outbreak(s) or origin of infection	Unknown or inconclusive Illegal movement of animals
Epidemiological comments	Up to 31 December 2012 a total of 18 poultry died in the affected area. Trace-back investigations revealed that there have been poultry deaths in the area from 19 December 2012 although they were not reported immediately to the local veterinary authorities. The disease was confirmed through real-time PCR at the National Veterinary Laboratory on 29 December when two carcasses were positive to tests.

Control measures

Measures applied	Stamping out Quarantine Movement control inside the country Screening Disinfection of infected premises/establishment(s) Dipping / Spraying Vaccination prohibited No treatment of affected animals
Measures to be applied	No other measures

Diagnostic test results

Laboratory name and type	Species	Test	Test date	Result
National Centre for Animal Health, Serbithang (National laboratory)	Birds	real-time PCR	29/12/2012	Positive
High Security Animal Disease Laboratory, Bhopal, India (Regional Reference Laboratory)	Birds	real-time PCR	04/01/2013	Positive

Future Reporting

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

Map of outbreak locations

