



**Highly pathogenic avian influenza,
Bhutan**

Information received on 08/02/2013 from Dr Karma Dukpa, Director General, Department of Livestock, Ministry of Agriculture and Forests, THIMPHU, Bhutan

Summary

Report type	Follow-up report No. 9
Date of start of the event	30/12/2011
Date of pre-confirmation of the event	08/01/2012
Report date	08/02/2013
Date submitted to OIE	08/02/2013
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)
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) Follow-up report No. 9 (08/02/2013)

New outbreaks (1)

Outbreak 1 (BHT_HPAI_2012_01)	Namkhaling, Pelrithang & Chuzargang, Gelephu, Chuzagang, Sarpang, Sarpang					
Date of start of the outbreak	14/01/2013					
Outbreak status	Continuing (or date resolved not provided)					
Epidemiological unit	Farm					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	85956	76	76	832	0
Affected population	Backyard free ranging local chicken in Chuzargang and Namkhaling villages. Backyard and improved chicken in Pelrithang village.					

Summary of outbreaks	Total outbreaks: 1					
Total animals affected	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	85956	76	76	832	0
Outbreak statistics	Species	Apparent morbidity rate	Apparent mortality rate	Apparent case fatality rate	Proportion susceptible animals lost*	
	Birds	0.09%	0.09%	100.00%	1.06%	

*Removed from the susceptible population through death, destruction and/or slaughter

Epidemiology

Source of the outbreak(s) or origin of infection	Unknown or inconclusive Illegal movement of animals
Epidemiological comments	Up to 18 January 2013 a total of 76 poultry died in the affected area. Trace-back investigations revealed that there have been poultry deaths in the area from 14 January 2013 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 16 January 2013 when four carcasses were positive to tests. Subsequently, the disease was confirmed by HSADL (Bhopal, India) on 31 January 2013.

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 (National laboratory)	Birds	real-time PCR	16/01/2013	Positive
National Centre for Animal Health (National laboratory)	Birds	real-time PCR	17/01/2013	Positive
High Security Animal Disease Laboratory, Bhopal, India (OIE's Reference Laboratory)	Birds	real-time PCR	31/01/2013	Positive
High Security Animal Disease Laboratory, Bhopal, India (OIE's Reference Laboratory)	Birds	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	31/01/2013	Positive

Future Reporting

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

Map of outbreak locations

