



**Highly pathogenic avian influenza,
Nepal**

Information received on 12/11/2013 from Dr Nar Bahadur Rajwar, Director General, Department of Livestock Services,
Department of Livestock Services, Lalitpur, Nepal

Summary

Report type	Follow-up report No. 13
Date of start of the event	27/08/2012
Date of pre-confirmation of the event	03/09/2012
Report date	12/11/2013
Date submitted to OIE	12/11/2013
Reason for notification	Reoccurrence of a listed disease
Date of previous occurrence	30/03/2012
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	the whole country
Related reports	Immediate notification (14/10/2012) Follow-up report No. 1 (02/11/2012) Follow-up report No. 2 (24/12/2012) Follow-up report No. 3 (06/01/2013) Follow-up report No. 4 (18/01/2013) Follow-up report No. 5 (21/01/2013) Follow-up report No. 6 (15/02/2013) Follow-up report No. 7 (11/04/2013) Follow-up report No. 8 (26/05/2013) Follow-up report No. 9 (30/06/2013) Follow-up report No. 10 (09/09/2013) Follow-up report No. 11 (11/09/2013) Follow-up report No. 12 (21/09/2013) Follow-up report No. 13 (12/11/2013)

New outbreaks (85)

Outbreak 1	Bhaktapur Municipality and adjoining villages, Bhaktapur , Bhaktapur, BAGMATI					
Date of start of the outbreak	14/08/2013					
Outbreak status	Resolved (10/09/2013)					
Epidemiological unit	Village					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	798000	14255	14255	783745	0
Affected population	Different farms and households having commercial broilers, layers, parent stock and backyard birds within the Bhaktapur district were culled when the infection was detected in different parts of the district. The farms and households were close to each other.					
Outbreak cluster 2	Mulpani, Nayapati, Indrayani Area, Mulpani, Nayapati, Indrayani Area, Kathmandu, BAGMATI (25 outbreaks)					
Date of start of the outbreak	15/08/2013					
Outbreak status	Resolved (01/10/2013)					
Epidemiological unit	Farm					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	105000	6023	6023	98977	0
Affected population	Commercial broilers, layers and parent stock birds were culled in Pepsikola, Mulpani, Gothatar, Indrayani, Nayapati, Danchi area of Kathmandu District. The birds were culled based on epidemiological link with the on-going outbreaks.					
Outbreak cluster 3	Kirtipur, Thankot Area, Kirtipur, Thankot Area, Kathmandu, BAGMATI (15 outbreaks)					

Date of start of the outbreak	15/08/2013					
Outbreak status	Resolved (01/10/2013)					
Epidemiological unit	Farm					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	200000	8440	8440	191560	0
Affected population	Commercial broilers, layers and parent stock birds were culled in Kirtipur, Thankot area of Kathmandu District. The birds were culled based on epidemiological link with the on-going outbreaks.					
Outbreak 4	Hetauda Municipality 8 and 6, Hetauda Municipality 8 & 6, Makwanpur, NARAYANI					
Date of start of the outbreak	15/08/2013					
Outbreak status	Resolved (31/08/2013)					
Epidemiological unit	Farm					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	11000	809	809	10191	0
Affected population	Commercial broilers, layers and backyard birds were culled in Hetauda Municipality Wards No 6 and 8 area of Makawanpur District.					
Outbreak cluster 5	Lamatar, Sainbu Bhaisepati Area, Lamatar, Sainbu Bhaisepati Area, Lalitpur, BAGMATI (25 outbreaks)					
Date of start of the outbreak	17/08/2013					
Outbreak status	Resolved (29/09/2013)					
Epidemiological unit	Farm					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	15000	688	688	14312	0
Affected population	Commercial broilers, layers and parent stock birds were culled in Lubhu Lamatar, Thaiba, Sainbu, Bhaisepati area of Lalitpur District. The birds were culled based on epidemiological link with the on-going outbreaks.					
Outbreak 6	Pangretar VDC 7, Pangretar, Sindhupalchowk, BHERI					
Date of start of the outbreak	19/08/2013					
Outbreak status	Resolved (27/08/2013)					
Epidemiological unit	Farm					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	2000	724	724	1276	0
Affected population	Broiler birds of 42 days were affected and the birds reared close to the infected farm were also culled based on epidemiological link.					
Outbreak cluster 7	Ugrachandi, Banepa MP, Nasika, Patalekhet, Tukucha Nala Area, Ugrachandi, Banepa MP, Nasika, Patalekhet, Tukucha Nala Area, Kavre, BAGMATI (15 outbreaks)					
Date of start of the outbreak	21/08/2013					
Outbreak status	Resolved (10/10/2013)					
Epidemiological unit	Farm					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	220000	6553	6553	213447	0
Affected population	Commercial broilers, layers and parent stock birds were culled in Ugratara, Ugrachandi, Nala, Banepa MP, Nasika, Patalekhet area of Kavre District. The affected birds were closely linked. The birds were culled based on epidemiological link with the on-going outbreaks.					
Outbreak 8	Tokha Saraswati VDC 7, Tokha Saraswati VDC, Kathmandu, BAGMATI					
Date of start of the outbreak	24/08/2013					
Outbreak status	Resolved (01/10/2013)					
Epidemiological unit	Farm					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	25000	1670	1670	23330	0

Affected population	Commercial broiler birds were affected and the adjoining farms having broilers, layers and backyard birds were culled.					
Outbreak 9	Phutung, Kavresthali VDC 5, Kathmandu, BAGMATI					
Date of start of the outbreak	14/09/2013					
Outbreak status	Resolved (01/10/2013)					
Epidemiological unit	Farm					
Affected animals	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	40000	4529	4529	35471	0
Affected population	Broiler parent stock raised in close deep litter system was affected and all affected birds including hatching eggs in the incubator were destroyed.					
Summary of outbreaks	Total outbreaks: 85					
Total animals affected	Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
	Birds	1416000	43691	43691	1372309	0
Outbreak statistics	Species	Apparent morbidity rate	Apparent mortality rate	Apparent case fatality rate	Proportion susceptible animals lost*	
	Birds	3.09%	3.09%	100.00%	100.00%	
*Removed from the susceptible population through death, destruction and/or slaughter						

Epidemiology

Source of the outbreak(s) or origin of infection	Unknown or inconclusive
Epidemiological comments	Birds showed respiratory distress, nervous signs and all affected birds died. Cleaning and disinfection activities in the infected premises are completed. Intensive surveillance activities are ongoing throughout the country.

Control measures

Measures applied	Control of wildlife reservoirs 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

Future Reporting

The event is continuing. Weekly follow-up reports will be submitted.
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Map of outbreak locations

