

Immediate notification report

Report reference: CAN-2015-NAI-002 REF OIE 17483, Report Date: 08/04/2015, Country : Canada

Report Summary

Name of sender of the report	Dr Martine Dubuc	Telephone	+1 613 773 5722
Position	OIE Delegate for Canada, Chief Food Safety Officer Vice-President, Science Branch	Fax	+1 613 773 5797
Address	Floor 3, Room 349 1400 Merivale Road, Tower 2 Ottawa, Ontario K1A 0Y9 Ottawa	Email	martine.dubuc@inspection.gc.ca
		Date submitted to OIE	08/04/2015

Animal type	Terrestrial	Date of report	08/04/2015
Disease	Highly pathogenic avian influenza	Date of start of the event	03/04/2015
Causal Agent	Highly pathogenic avian influenza virus	Date of confirmation of the event	05/04/2015
Serotype(s)	H5N2	Date of last occurrence	02/2015
Reason	Reoccurrence of a listed disease	Diagnosis	Clinical, Laboratory (advanced)
Country or zone	a zone or compartment	Clinical signs	Yes
Number of reported outbreaks	submitted= 1, Draft= 0		

Outbreak details

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
ONTARIO- (this report - submitted)	-			Farm	Beachville	43.0907	-80.8293	03/04/2015	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	45000	9000	9000			
Affected Population	ONT-2015-NAI-001 Meat turkey commercial farm with 4 barns. One barn is affected, with approximately 75% mortality. Age of the birds in the affected barn: 16 weeks.								

Outbreak summary: Total outbreaks = 1 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	45000	9000	9000		

Epidemiology

Epidemiological comments

Sudden high mortality (approximately 25% within 48 hours). The National Centre for Foreign Animal Disease - Canadian Food Inspection Agency (CFIA) has confirmed that the virus was a H5N2. Preliminary testing indicates that the virus is similar to other Eurasian origin H5 outbreaks currently circulating in North America and the HAO cleavage site sequence is typical of HPAI viruses. Additional testing is underway.

This outbreak of H5N2 is not linked with the H5N2 outbreaks that affected the commercial poultry in the province of British Columbia late in 2014. One possibility is that the current H5N2 outbreak in Ontario is related to wild birds migration (Mississippi flyway). Wild waterfowls (ducks, geese, swans) were observed around the barns within the last 30 days.

The CFIA has immediately quarantined the infected farm and is implementing strict movement controls and a stamping out policy. The Canadian Notifiable Avian Influenza Surveillance System (CanNAISS) has been ongoing in Canada since 2008 and surveillance activities will be enhanced in Ontario.

Source of the outbreak(s) or origin of infection

- Contact with wild species
- Unknown or inconclusive

Measures applied

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

Diagnostic test results

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
National laboratory	National Centre for Foreign Animal Disease - CFIA	Birds	virus sequencing	07/04/2015	Positive
National laboratory	National Centre for Foreign Animal Disease - CFIA	Birds	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	07/04/2015	Positive
Local laboratory	University of Guelph - Animal Health Laboratory	Birds	real-time PCR	05/04/2015	Positive

Future Reporting

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

Outbreak maps

