

Follow-up report No.1

Report reference: CAN-2014-NAI-001., Reference OIE : 16700, Report Date : 09/12/2014, Country : Canada

Report Summary

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		Date submitted to OIE	09/12/2014

Animal type	Terrestrial	Date of report	09/12/2014
Disease	Highly pathogenic avian influenza	Date of start of the event	30/11/2014
Causal Agent	Highly pathogenic avian influenza virus	Date of pre-confirmation of the event	01/12/2014
Serotype(s)	H5N2	Date of last occurrence	01/2008
Reason	Reoccurrence of a listed disease	Diagnosis	Laboratory (advanced)
Country or zone	a zone or compartment	Clinical signs	Yes
Number of reported outbreaks	submitted= 5, Draft= 0		

Outbreak details

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
BRITISH COLUMBIA-other report - submitted	-			Farm	Abbotsford	49.052273	-122.30595	30/11/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	28000	7700	7700	20300	0			
Affected Population	BC-2014-NAI-002 Meat turkey farm Affected barn: 83 days of age toms (70% mortality). In addition, hens and 2 week old poults on the premises with normal mortality rate.								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
BRITISH COLUMBIA-other report - submitted	-			Farm	Chilliwack	49.171042	-121.95099	30/11/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	12800	700	700	12100	0			
Affected Population	BC-2014-NAI-001 Chicken broiler breeder farm. The affected barn holds a flock of 24 weeks of age (10% mortality). An adjacent barn, not affected, contains a flock of 47 weeks of age.								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
BRITISH COLUMBIA-(this report - submitted)	-			Farm	Abbotsford	49.052273	-122.30595	02/12/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	14000	250	250	13750	0			
Affected Population	BC-2014-NAI-003 Chicken broiler breeder farm. Affected barn holds hens and roosters 37 week old (sudden death). In addition, 2 week old pullets on the premises with normal mortality rate.								

Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
BRITISH COLUMBIA- (this report - submitted)	-			Farm	Abbotsford	49.052273	-122.30595	02/12/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	27000	22	22	26978	0			
Affected Population	BC-2014-NAI-004 Chicken broiler breeder farm. Affected barn holds hens and roosters 41 week old (sudden death). In addition, 7 and 59 week old hens and roosters on the premises with normal mortality rates.								

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
BRITISH COLUMBIA- (this report - submitted)	-			Farm	Abbotsford	49.052275	-122.30597	04/12/2014	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered			
Birds	Animals	31000	50	50			
Affected Population	BC-2014-NAI-005 Meat turkey farm. One barn affected 9 week old birds, high mortality. In addition, 4 and 14 week old birds on premises with normal mortality rates.								

Outbreak summary: Total outbreaks = 5 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	112800	8722	8722	73128	0

Epidemiology

Epidemiological comments

Testing at the Canadian Food Inspection Agency (CFIA) National Centre for Foreign Animal Disease (NCFAD) on samples from outbreaks number BC-2014-NAI-001 and BC-2014-NAI-002 was performed: RT-PCR and partial sequencing of the H and N gene segments indicates a poly-basic cleavage site in H5 consistent with Highly Pathogenic Avian Influenza Virus and the virus being a H5N2 Avian Influenza Virus with an IVPI of 2.96-2.98.

The CFIA has also confirmed H5 avian influenza virus in 3 additional farms (outbreak number BC-2014-NAI-003, BC-2014-NAI-004 and BC-2014-NAI-005) with clinical signs.

Farms from outbreak number BC-2014-NAI-001, BC-2014-NAI-002, BC-2014-NAI-003 and BC-2014-NAI-004 have been humanely depopulated.

At this point, this event is limited geographically to a portion of the Fraser Valley in the southern fringe of the province of British Columbia. Infected premises were quarantined by the Canadian Food Inspection Agency (CFIA) and a stamping out policy is being implemented, as described in the Notifiable Avian Influenza (NAI) Hazard Specific Plan. The Canadian Notifiable Avian Influenza Surveillance System (CanNAISS) is an ongoing surveillance system built to demonstrate absence of NAI in poultry in Canada. CanNAISS results and epidemiological investigation to date are supporting that there is no evidence of infection outside of the Fraser Valley in British Columbia.

On 8 December 2014, the Canadian Food Inspection Agency (CFIA) has established a primary control zone in the area where the disease has been identified. The primary control zone is bordered on the west by the Pacific Ocean, on the south by the United States border, on the north by Highway 16, and on the east by the border between British Columbia and Alberta. Additional information on the zone and the restrictions in place are available at <http://www.inspection.gc.ca/animals/terrestrial-animals/diseases/reportable/ai/statement-2014-12-08/eng/1418073266291/1418073267337>.

Source of the outbreak(s) or origin of infection

- 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, Canadian Food Inspection Agency	Birds	virus isolation	04/12/2014	Positive

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
National laboratory	National Centre for Foreign Animal Disease, Canadian Food Inspection Agency	Birds	intravenous pathogenicity index (IVPI) test	06/12/2014	Positive
National laboratory	National Centre for Foreign Animal Disease, Canadian Food Inspection Agency	Birds	virus sequencing	04/12/2014	Positive
National laboratory	National Centre for Foreign Animal Disease, Canadian Food Inspection Agency	Birds	real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)	03/12/2014	Positive

Future Reporting

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

Outbreak maps

