

Immediate notification report

Report reference: CAN-AI-2007-01, Ref OIE: 6260, Report Date: 28/09/2007 , Country: Canada

Report Summary

Disease	Highly pathogenic avian influenza	Animal type	Terrestrial
Causal Agent	Avian influenza virus	Serotype(s)	H7N3
Clinical Signs	Yes	Reason	Reoccurrence of a listed disease
Date of confirmation of Event	27/09/2007	Date of Start of Event	23/09/2007
Date of report	28/09/2007	Date Submitted To OIE	28/09/2007
Diagnosis	Clinical, Laboratory (basic), Laboratory (advanced)	Date Of Last Occurrence	2004
Number of reported outbreaks	Submitted= 1, Draft= 0	Name of Sender of the report	Dr André Vallieres
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Outbreak (this report - submitted) (CAN-AI-2007-01)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start	End
SASKATCHEWAN	Regina		Farm	Regina Beach	50,7906	-104,9866	23/09/2007	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	49100	560	560	0	0		

Affected Population

Chicken broiler breeder flock. The operation consists of ten barns. There are 1100 roosters housed within two barns. In close proximity are three barns which house a total of 16,000, 10 week-old broiler breeder pullets. Approximately 400 metres away are four laying barns which house a total of 16,000, 52 week-old broiler breeders and 16,000, 29 week-old broiler breeders. Approximately 540 roosters have died in one barn containing approximately 600 birds (approximately 90% mortality). There are currently less than sixty birds remaining in this barn.

Outbreak summary: Total outbreaks = 1 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	49100	560	560	0	0

Epidemiology

Epidemiological comments

The 100 rooster had been moved from the affected barn into the 52 week-old breeder flock two weeks previously. Additionally, 160 rooster were moved to the 29 week-old breeder flock on September 17. No signs of illness have been noticed in any of the breeder barns; however, the 29 week-old breeder flock has not performed well; they did not peck as expected and production is not as good as anticipated.

On September 25, ancillary genetic results indicated the presence of an H7N3 virus in swab and tissue samples taken from the rooster barn. As of September 26, further test results indicate that birds in that barn were exposed to the virus several days prior to the findings as serology titers are demonstrated towards the virus. H7N3 active infection was further demonstrated with the presence of live virus in tissues from dead birds and swabs. Initial virus molecular pathotyping indicate that the virus has a high pathogenic molecular pattern. All samples tested to date from birds located in the other barns on the same premise do not indicate the presence of avian influenza viruses.

Canadian Food Inspection Agency (CFIA) officials continue to proceed with the investigation according to the Notifiable Avian Influenza - Hazard Specific Plan (NAI-HSP).

CFIA will apply restrictions on the movement of poultry and poultry products within three kilometres of the infected premises. As an additional safeguard, any poultry operations within ten kilometres of the infected premises will be closely and regularly monitored for signs of illness.

Source of Infection

- Unknown or inconclusive
- Contact with wild species suspected but not confirmed

Control Measures

Applied	<ul style="list-style-type: none"> • Movement control inside the country • Screening • Quarantine 	To be applied	<ul style="list-style-type: none"> • Disinfection of infected premises/establishment(s) • Stamping out
		Vaccination Prohibited	Yes
Animals treated	No		

Country / Zone

Country or zone	the whole country
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Diagnostic test results

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
National laboratory	CFIA National Center Foreign Animal Disease, Winnipeg	Birds	neuraminidase inhibition assay	25/09/2007	Positive
National laboratory	CFIA National Center Foreign Animal Disease, Winnipeg	Birds	polymerase chain reaction (PCR)	26/09/2007	Positive
National laboratory	CFIA National Center Foreign Animal Disease, Winnipeg	Birds	polymerase chain reaction (PCR)	25/09/2007	Positive
National laboratory	CFIA National Center Foreign Animal Disease, Winnipeg	Birds	competitive ELISA (c-ELISA)	24/09/2007	Positive
National laboratory	CFIA National Center Foreign Animal Disease, Winnipeg	Birds	virus sequencing	27/09/2007	Positive
National laboratory	CFIA National Center Foreign Animal Disease, Winnipeg	Birds	virus isolation	26/09/2007	Positive
National laboratory	CFIA National Center Foreign Animal Disease, Winnipeg	Birds	haemagglutination inhibition test (HIT)	26/09/2007	Positive

Future Reporting

What further reports will be submitted in relation to this event?

There are 1outbreaks that are still recorded as unresolved. It is not possible to declare this event resolved until these individual outbreaks are resolved.

Outbreak map

