

Immediate notification report

Report reference: , Ref OIE: 8389, Report Date: 21/08/2009 , Country: Chile

Report Summary

Disease Name:	Influenza A H1N1 (New Unknown Disease)	Animal type	Terrestrial
		Reason	Emerging disease
Causal Agent	Influenza A Virus	Date of Start of Event	23/07/2009
Date of first confirmation of the event	20/08/2009	Date Submitted To OIE	21/08/2009
Date of report	21/08/2009	Name of Sender of the report	Dr Ternicier Claudio
Number Of Reported Outbreaks	Submitted= 2, Draft= 0	Position	Jefe División Protección Pecuaria
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Disease Impact

Units for morbidity and mortality	Morbidity	Mortality	Zoonotic potential
Quantitative (%)	61.4%	0%	

Outbreak (this report - submitted) (Foco 1)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start date	End Date
VALPARAISO	Valparaiso	Quilpue	Farm	Las Palmas	-33,0549	-71,3467	23/07/2009	
Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered		
Birds	Animals	29782	24337	0	0	0		

Affected Population

The birds are breeding turkeys which presented a drop from 70% to an average of 31%, and a reduction in the quality of the shell. Neither respiratory signs nor increased mortality were observed.

Necroscopy of the affected birds showed salpingitis, peritonitis and an interruption of the follicular development. No other lesions were observed. Samples of embryonated eggs collected from the incubation building gave negative results with real time PCR.

Twenty days after the beginning of the event, a recovery in the laying rate was observed.

Outbreak (this report - submitted) (Foco 2)

Province	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start date	End Date
VALPARAISO	Nogales	Quillota	Farm	Pucalán	-32,866	-71,1509	29/07/2009	

Species	Measuring units	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	Animals	29772	12248	0	0	0

Affected Population The birds are breeding turkeys showing an abnormal decrease in the laying rate.
Neither respiratory signs nor increased mortality were observed.

Outbreak summary: Total outbreaks = 2 (Submitted)

Species	Susceptible	Cases	Deaths	Destroyed	Slaughtered
Birds	59554	36585	0	0	0

Epidemiology

Epidemiological comments
<p>The affected farms are turkey breeding premises belonging to the same company, vertically integrated, where appropriate biosecurity measures are applied.</p> <p>Outbreak no. 1 is composed of 5 breeding premises. The outbreak started in premises no. 1 and through horizontal transmission, it reached 3 other premises.</p> <p>In the outbreak n. 2 of 5 existing sectors are affected.</p> <p>Prior to the appearance of clinical signs, some birds were exposed to people showing respiratory symptoms.</p> <p>The affected premises were systematically monitored through serological testing with negative results until 28 July 2009.</p> <p>Serotyping allowed to exclude the presence of H5 and H7 virus and allowed to confirm detection of A/H1N1 2009 pandemic influenza virus 2009.</p> <p>Samples were sent to the Public Health Institute of Chile (ISP), Ministry of Health. The ISP confirmed the presence of A/H1N1 2009 pandemic influenza virus 2009 using real time PCR. The RT-PCR for seasonal H1 and H3 influenza resulted negative.</p> <p>Samples will be sent to the OIE Reference Laboratory.</p>
<p>Source of the outbreak(s) or origin of infection • Unknown or inconclusive</p>

Control Measures

<p>Applied</p> <ul style="list-style-type: none"> • Quarantine • Screening • Disinfection of infected premises/establishment(s) 	<p>To be applied • No Planned Control Measures</p>
	<p>Vaccination Prohibited Yes</p>
<p>Animals treated No</p>	

Diagnostic test results

Laboratory Type	Name of Laboratory	Species	Test Type	Date Results Provided	Result
National laboratory	Public Health Institute	Birds	virus sequencing	21/08/2009	Pending
National laboratory	Quarantine Station and Lo Aguirre Laboratory	Birds	neuraminidase inhibition assay	19/08/2009	Positive
National laboratory	Quarantine Station and Lo Aguirre Laboratory	Birds	haemagglutination inhibition test (HIT)	19/08/2009	Positive
National laboratory	Quarantine Station and Lo Aguirre Laboratory	Birds	antibody detection ELISA	14/08/2009	Positive
National laboratory	Public Health Institute	Birds	real-time PCR	20/08/2009	Positive
National laboratory	Quarantine Station and Lo Aguirre Laboratory	Birds	agar-gel immunodiffusion (AGID)	15/08/2009	Positive

Future Reporting

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

There are 2 outbreaks that are still recorded as unresolved. It is not possible to declare this event resolved until these individual outbreaks are resolved.

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

Outbreak maps

