

Immediate notification report

Report reference: REF OIE 26143, Report Date: 09/03/2018, Country : Mexico

Report Summary

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		Date submitted to OIE	10/03/2018

Animal type	Terrestrial	Date of report	09/03/2018
Disease	Highly pathogenic avian influenza	Date of start of the event	12/02/2018
Causal Agent	Highly pathogenic avian influenza virus	Date of confirmation of the event	03/03/2018
Serotype(s)	H7N3	Date of last occurrence	31/05/2017
Reason	Recurrence of a listed disease	Diagnosis	Clinical, Laboratory (advanced)
Country or zone	a zone or compartment	Clinical signs	Yes
Number of reported outbreaks	submitted= 2, Draft= 0		

Outbreak details

Estado	Number of outbreaks	Municipio	Localidad	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
GUANAJUATO- (this report - submitted)	-	San Felipe		Backyard	San Felipe	21.482469	-101.212514	12/02/2018	20/02/2018
Species	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered			
Birds	Animals	1900	1380	1380	520	0			
Affected Population	Approximately-80-weeks-old Rhode Island Red chickens and white chickens in a rural farm.								

Estado	Number of outbreaks	Municipio	Localidad	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
QUERETARO- (this report - submitted)	-	Cadereyta de Montes		Backyard	Cadereyta de Montes	20.695363	-99.814412	22/02/2018	23/02/2018
Species	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered			
Birds	Animals	26	7	7	19	0			
Affected Population	Backyard birds with clinical signs: conjunctivitis, watery diarrhea and sudden death.								

Outbreak summary: Total outbreaks = 2 (Submitted)

Species	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered
Birds	1926	1387	1387	539	0

Epidemiology

Epidemiological comments

A farm was detected in Guanajuato within the framework of the permanent National program for active epidemiological surveillance. It initially had 1,400 Rhodes Island Red chickens, before the introduction of 500 white chickens towards the end of the laying phase, supposedly coming from a farm in Jalisco where vaccination is applied. This was verified through serology on 30 sera with two titers of 1:256, four titers of 1:512 and 24 titers of 1:1024. This introduction is considered to be the source of infection of the susceptible birds. Isolation in Querétaro was obtained after the reporting by an authorized laboratory, which provided the official laboratory with the samples.

As difficulties were faced during typing of the virus, several diagnostic assays were performed until confirmation. Isolated viruses in Guanajuato and Querétaro presented an IVIP of 2.84 and 2.86, respectively.

In both cases, measures to control the epidemic were applied, including quarantine of the premises and killing of the birds. Pre-emptively, a focal zone and a perifocal zone of three and ten kilometers respectively were implemented, where the absence of the disease has been verified. The National veterinary services will keep the epidemiological surveillance going and inform the OIE about any evolution.

Source of the outbreak(s) or origin of infection

- Introduction of new live animals

Measures applied

Applied	To be applied

Applied	To be applied
<ul style="list-style-type: none"> • movement control inside the country • screening • quarantine • official disposal of carcasses, by-products and waste • stamping out • zoning • disinfection 	<ul style="list-style-type: none"> • no planned control measures
Animals treated	Vaccination Prohibited
No	Yes

Diagnostic test results




Laboratory Type	Name of Laboratory	Species	Test Type	Date results provided	Result
National laboratory	SENASICA level-3 biosecurity laboratory	Birds	neuraminidase inhibition assay	03/03/2018	Positive
National laboratory	SENASICA level-3 biosecurity laboratory	Birds	virus sequencing	23/02/2018	Positive
National laboratory	SENASICA level-3 biosecurity laboratory	Birds	intravenous pathogenicity index (IVPI) test	19/02/2018	Positive
National laboratory	SENASICA level-3 biosecurity laboratory	Birds	haemagglutination inhibition test (HIT)	18/02/2018	Positive
National laboratory	SENASICA level-3 biosecurity laboratory	Birds	virus isolation	19/02/2018	Positive

Future Reporting

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

Outbreak maps



-  Resolved (domestic)
-  International Boundaries
-  Administrative Boundaries