

Follow-up report No.3

Report reference: Maoz Haim M. Bovis, Reference OIE : 34071, Report Date : 21/04/2020, Country : Israel

Report Summary

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Animal type	Terrestrial	Date of report	21/04/2020
Disease	Mycobacterium tuberculosis complex (Infection with)	Date of start of the event	01/03/2019
Causal Agent	Mycobacterium bovis	Date of confirmation of the event	01/04/2019
Reason	Recurrence of a listed disease	Date of last occurrence	1999
Country or zone	a zone or compartment	Diagnosis	Laboratory (basic), Laboratory (advanced), Necropsy
Number of reported outbreaks	submitted= 1, Draft= 0	Clinical signs	No

Outbreak details

Province	Number of outbreaks	District	Sub-district	Unit Type	Location	Latitude	Longitude	Start Date	End Date:
Hazafon-other report - submitted	-	Yizreel		Farm	MAOZ HAYYIM	32.4931217221	35.5489170218	01/03/2019	
Species	Measuring units	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered			
Cattle	Animals	564	128	0	75	53			
Affected Population	<p>The herd is a milking herd. It contained 297 milking cows, 30 dry cows, 232 heifers and 5 calves. In the slaughterhouse, during a routine slaughter, three cows from the farm showed pathological changes including granulomas in the lungs. Samples were sent to the laboratory at Kimron Institute. Two of the cows were found with acid resistant bacteria and samples were sent to the reference laboratory of the Ministry of Health. All the herd was immediately tested to tuberculin test. 36 cows and 10 heifers were found positive with the test.</p> <p>All the 46 animals were culled and an autopsy was conducted to 16 of them. No dramatic lesions were seen but 4 of them were found with acid resistant bacteria and were sent to further investigation.</p> <p>During the end of June, tuberculin test was conducted on the remaining cows. 51 of them (47 cows and 4 heifers) had a positive reaction and were sent to the slaughterhouse and were slaughtered with enforced precautions. At the slaughterhouse, 40% of them were found with enlarged mediastinal and/or retropharyngeal lymph nodes. Some of them showed granulomas in the lungs. Two more cows negative in tuberculin test were found positive in the slaughterhouse. In mid-September, 29 more animals (21 cows and 8 heifers) were found positive in tuberculin test and were culled and disposed of since no slaughterhouse could receive them at that time.</p> <p>In June 2019, 12 more cows have been found positive and were culled.</p> <p>In the next survey, in January 2020, 9 cows and one heifer have been found positive in tuberculin test. The animals were culled.</p> <p>On March 2020, 6 additional cows and 6 additional heifers have been found positive at the tuberculin test. The animals were culled.</p>								

Outbreak summary: Total outbreaks = 1 (Submitted)

Species	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered
Cattle	564	128	0	75	53

Epidemiology

Epidemiological comments

This event is not connected to the event of tuberculosis reported in February 2019, where the agent was Mycobacterium caprae, and was found in an imported calf.

Source of the outbreak(s) or origin of infection

- Unknown or inconclusive

Measures applied

Applied	To be applied

Applied	To be applied
<ul style="list-style-type: none"> • movement control inside the country • quarantine • surveillance outside containment and/or protection zone • official destruction of animal products • official disposal of carcasses, by-products and waste • selective killing and disposal • zoning • slaughter • ante and post-mortem inspections 	<ul style="list-style-type: none"> • screening
Animals treated	Vaccination Prohibited
No	No

Diagnostic test results

Laboratory Type	Name of Laboratory	Species	Test Type	Date results provided	Result
National laboratory	Field Israeli veterinary Services	Cattle	tuberculin test	08/03/2020	Positive
National laboratory	Ministry of Health, Abu Kabbir	Cattle	polymerase chain reaction (PCR)	15/07/2019	Positive
National laboratory	Kimron Veterinary Institute, Bacteriology Laboratory	Cattle	bacteriological examination	30/06/2019	Positive

Future Reporting

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

Outbreak maps

