

About this dossier

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Eradication: Final report for Sheep And Goat Brucellosis 2019

For each approved annual or multi-annual programme Member States shall submit to the Commission by the 30 April each year an annual detailed technical and financial report covering the previous year. That report shall include the results achieved and a detailed account of eligible costs incurred (Art 14 of Regulation (EU) No 652/2014).

This form is for information only, no submission possible.

ID: 20200318-6SPCFFOP

Country code: HR

Reporting period

From: 2019

To: 2019

Year of implementation: 2019

1. Technical implementation of the programme

1.1 Description and evaluation of the evolution of the epidemiological situation, the technical implementation of the activities foreseen under the programme and the cost-effectiveness of the programme.

During 2019, sheep and goat brucellosis programme was implemented in the whole territory of Croatia, but the EC co-financing is eligible only for counties considered as high risk counties. High risk counties are those that are bordering with Bosna and Hercegovina: Dubrovačko-neretvanska, Splitsko-dalmatinska, Šibensko-kninska, Zadarska, Ličko-senjska, Karlovačka, Sisačko-moslavačka, Brodsko-posavska and Vukovarsko-srijemska (attachment 1). All animals older than 6 months are tested in herds not yet officially free and representative number of animals in herds that are officially free. In some municipalities inside risk area (selected because of previous outbreaks), all animals in the flock are tested, not only representative number of animals. List of those municipalities: Plitvička jezera and Korenica in Lika senj-county; Cetingrad, Vojnić and Krnjak in Karlovac county; Dvor in Sisak -moslavina county; Sinj, Hrvace and Lovreć in Split-dalmatia county; Cviljane in Šibenik-knin county. Testing was performed before pasture season begins and by the latest in the end of March and again after animals return from pasture. All animals older than 6 months were tested with RBT in NRL Croatian Veterinary Institute (CVI) Zagreb and 4 regional branches located in Split, Križevci, Rijeka and Vinkovci. RBT positive samples were retested with CFT. All RBT positive samples are transferred to NRL in Zagreb and tested again with RBT and CFT. In case more than 5 % of samples in the flock were RBT positive, all samples are tested with CFT. All CFT positive

animals were euthanised and sampled for bacteriological investigation (samples include: uterus, testicles, spleen, fetus, lymph nodes (sumpramammar, ingvinal, portal, mandibular and mesenterial)).

1.2 Details on the level of achievement of the targets set in the approved programme and technical difficulties.

Compared to 2018, the results of the program in the whole country are almost at the same level as last year, with slight decrease of 2 %.

2014 - 77 %; 2015- 87 %; 2016 - 84 %, 2017-85 %, 2018 - 86 %, 2019 - 84 %.

Flock testing coverage in high risk counties is 80 %.

Number of officially free flocks has increased from December 2018 from 18 098 flocks to 20 453 on 31 December 2019 (93,25 %, data for the whole country).

Targets for 2019

Rose Bengal tests: planned- 348 200, performed 250 727 (72 %)

CFT planned - 2430, performed 554 (23%)

Bacteriological tests planned for the whole 2019th - 180, performed 89 (49%)

PCR planned for the whole 2019 - 20, performed- 45

Number of samples planned - 334 452, performed - 247 641 (74 %).

Main difficulty in sample planning is calculation of eligible number of animals in advance. Since only representative number of animals has to be tested, eligible number of animals does not correspond to total number of animals. Calculation of eligible animals is performed on single occasion at the end of the year, by mathematical formula, in the absence of specifically tailored application for brucellosis testing.

1.3 Epidemiological maps for infection and other relevant data on the disease/activities (information on serotypes involved,...) (Please attach files of data using the PDF attachment feature) Use the textbox below to provide clarifications for the maps you attach, if needed.

In total 3 flocks with 47 animals in high risk counties (1 more flock outside high risk counties with 1 animal) was positive on CFT. In one mixed herd in Dubrovnik neretva county infection was confirmed.

Outbreak occurred in municipality Metkovic in Dubrovnik - Neretva county in mixed holding with goats (148) and bovines (46) in May 2019. Suspicion was raised when local veterinary inspector received notification from Human Epidemiological Service that one woman has brucellosis. Case was traced back to this herd. It is suspected that brucellosis was introduced with infected goats from Bosna and Hercegovina. The animals were not identified, records on the holding were not kept regularly. B. melitensis was isolated and confirmed in goats and bovine animals. All goats and serologically positive bovine animals are euthanized. First serological testing on bovine animals was negative, but the second round of testing after 60 days revealed positive animals. All susceptible animals in 10 km range from the holding were tested immediately. There was no new outbreaks.

1.4 Additional epidemiological information (on epidemiological inquiries, abortions, lesions found in abattoir, human cases, etc...)

Additional information of surveillance results, location and number of outbreaks are presented in attachments.

2. TECHNICAL IMPLEMENTATION ON RUMINANT DISEASES PROGRAMMES

VERY IMPORTANT: Please fill out the following tables with figures corresponding to measures performed during the implementing period (1/1 to 31/12).

Table A - DATA ON HERDS

Region	Animal species	Total number of herds	Total number of herds under the programme	Number of herds to be checked under the programme this year	Number of herds checked	Number of positive herds	Number of new positive herds	Number of herds depopulated
		% of herds depopulated	% of herds coverage		% of positive herds Period herd prevalence		% of positive herds Herd incidence	
Croatia - high risk area	Sheep and Goats	11,641	11,641	11,641	9,277	3	3	0
		0 %	79.69 %		0.03 %		0.03 %	
Total		11,641	11,641	11,641	9,277	3	3	0
		0 %	79.69 %		0.03 %		0.03 %	

Table B - DATA ON ANIMALS

Region	Animal species	Total number of animals	Number of animals	Number of animals to be tested	Number of animals tested	Number of animals	Number of positive animals	Number of animals with	Number of animals
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			under the programme	under the programme this year		tested individually		positive result slaughtered or culled	slaughtered	
					% coverage at animals level			% positive animals Animal Prevalence		
Croatia-high risk areas	Sheep and Goats	478,841	334,467	334,467	245,369	245,369	47	47	150	
					73.36 %			0.02 %		
Total		478,841	334,467	334,467	245,369	245,369	47	47	150	
					73.36 %			0.02 %		

Table C - DATA ON VACCINATION PROGRAMMES

Region	Animal species	Total number of herds	Total number of animals	Number of herds in vaccination programme this year	Number of herds vaccinated	Number of animals vaccinated	Number of doses of vaccine administered	Number of adults vaccinated	Number of young animals vaccinated	Number of animals with primary vaccination (initial+ booster)
Total		0	0	0	0	0	0	0	0	0

Table D - DATA ON STATUS OF HERDS AT THE END OF THE PERIOD

	Region	Animal species	Total number of herds and animals under the programme	Unknown	Not free or not officially free from disease		Free of officially free-disease status suspended/ withdrawn	Free from disease	Officially free from disease
					Last check positive	Last check negative			
herds	Croatia-high risk areas	Sheep and Goats	11,641	0	1	879	3	0	10,772
animals	"	"	478,841	0	148	28,997	347	0	449,497
Total - herds			11,641	0	1	879	3	0	10,772
Total - animals			478,841	0	148	28,997	347	0	449,497

Table E - SUSPENSION/WITHDRAWAL OF THE FREE OR OFFICIALLY FREE STATUS

Region	Animal species	Status	Reason	Number of herds
Bjelovar - bilogora	Sheep and Goats	Suspended	Non-negative result in diagnostic test	1
Požeško-slavonska	Sheep and Goats	Suspended	Entering animals in the herd with insufficient status	1
Šibensko-kninska	Sheep and Goats	Suspended	Does not fulfil the routine testing frequency	1
Varaždinska	Sheep and Goats	Suspended	Non-negative result in diagnostic test	1
Zadarska	Sheep and Goats	Suspended	Does not fulfil the routine testing frequency	1
Zadarska	Sheep and Goats	Suspended	Entering animals in the herd with insufficient status	1
Primorsko-goranska	Sheep and Goats	Withdrawn	Does not fulfil the routine testing frequency	2
Total				8

Table F - STRATIFIED DATA ON SURVEILLANCE AND LABORATORY TESTS

Region	Animal species	Test type	Number of samples	Number of tests	Number of positive tests
Croatia -high risk counties	Sheep and Goats	Rose Bengal test	247,552	250,727	251
Croatia - high risk counties	Sheep and Goats	Complement fixation test	0	554	47
Croatia - high risk counties	Sheep and Goats	Bacteriological test	89	89	30
Croatia - high risk counties	Sheep and Goats	PCR test	0	45	30
Total			247,641	251,415	358
			Methods of laboratory analysis	Total number of tests	
			Total - Bacteriological test	89	
			Total - Complement fixation test	554	
			Total - PCR test	45	
			Total - Rose Bengal test	250,727	

COMMENT / ADDITIONAL CLARIFICATION

Additional clarification:

Table F - number of samples for CFT is 0 because test is performed from the same sample as RBT. For PCR sampling is not calculated.

In point 3 Financial Data - number of RBT test is bigger than number of samples because some RBT have to be repeated from the same sample - in case RBT is positive in one of the regional branches of Croatian Veterinary Institute, samples are delivered to NRL in Zagreb where they are retested with RBT and CFT.

In tables A, B and C, animals and herds are calculated only once. In some cases testing on certain animals or herds is performed on two or more occasions, but this is not calculated in the number of herds and animals. For that reason number of samples is bigger than number of tested animals.

Exchange rate : 1 € = 7,5790 HRK (30 April 2020).