

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: 20200429-B4JBG2GQ

Country code: PT

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.

Mainland

The sheep and goat brucellosis eradication programme (S&GBEP) carried out in 2019 for the non-officially free regions of Portugal (5 regions of the continental area) resulted in a positive evolution of the epidemiological indicators.

Compared to 2018, herd apparent prevalence decreased from 0.49% to 0,39% and herd incidence from 0.42% to 0,33%. The percentage of seropositive animals decreased from 0.08% to 0,05%. All regions except Norte, are below 1% herd prevalence.

The S&GBEP was implemented as foreseen, reaching a coverage of 95.66% of herds, varying from 94.89% in the Lisboa e Vale do Tejo Region to 99.6% in the Algarve Region.

There were 203 herds with at least one positive animal and 172 were new positive. Infection was confirmed by bacteriology in 35 herds out of 187 herds investigated.

Most positive animals were subjected to sanitary slaughter and those coming from newly infected herds were subjected to organ collection for bacteriology. A total of 1018 animals were slaughtered and the percentage of slaughtered positive animals with isolation of *B. melitensis* was of 13,79% (109/790). From these 109 isolates 85,32% were from the Norte region.

The measure of total slaughter was implemented in 6 herds, following the identification of infection and the

difficulties in improving the status of the herd.

Vaccination was applied in 2.895 herds (34.268 animals).

The implementation of S&GBEP is of great importance as *B. melitensis* is the main agent of human brucellosis and the programme has achieved, over time an improvement of the sanitary status of the small ruminant's population.

Autonomous Region of Madeira

It was not possible to implement in 2019 all the actions foreseen in the programme for the autonomous region of Madeira, so that a representative view of the real situation in that autonomous region could be shown.

For that reason we decided not to consider the developed actions in this report, namely for reimbursement purposes.

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

The S&GBEP implemented in 2019 resulted in a reduction of 20.41% of herd apparent prevalence and of 21.43% in the herd incidence. The percentage of positive animals decreased 39.02%.

The variation of apparent herd prevalence by region, from 2018 to 2019, was the following:

- o Norte - decrease from 1.43% to 1.18%
- o Centro - decrease from 0.05 % to 0.01%
- o LVT - increase from 0.38 % to 0.44%
- o Alentejo - decrease from 0.15% to 0.10%
- o Algarve - decrease from 0.5% to 0.0%

The percentage of free (B3), officially free (B4) and B3S/B4S herds is 99.92%.

The main reasons for attributing a suspended status (B3S/B4S) are related to detection of irregularities on animal movement (58.23%), followed by delays in regular sampling (31.76%) and non-negative serology (8.95%).

At the 31st December 2019, 27 herds had an infected status in 2 regions: Norte (88.88%) and Lisboa e Vale do Tejo (0.20%).

Technical difficulties in the implementation S&GBEP are mainly related to the survey of very small herds in marginal areas where accessibilities are difficult.

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.

By the end of 2019, no counties had more than 3 infected herds and only 2 counties had 3 infected herds.

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

The S&GBEP foresee the investigation of positive and infected herds in order to access the origin of infection. For this evaluation a specific data collection questionnaire is used (epidemiological enquiry).

These enquiries are implemented with the objective to establish possible links to other farms (trace-back and trace-forward) and characterize possible risk factors and sources of infection.

There were 70 epidemiological inquiries in newly infected herds in the mainland. The main probable reasons were related to introduction of animals (71%) and to recurrences and other origins.

There were 75 notified abortions at Norte Region, regarding ovine, all with negative results to Brucella.

There were 8 samples of abortions/placenta/fetus tested at the National Reference Laboratory (INIAV) for Brucellosis (5 sheep and 3 goats), all with negative results.

According to the Directorate-General of Health (DGS), 31 human cases of brucellosis (provisional data) were notified in 2019, all laboratory confirmed and were distributed by the following districts:

- 1 case - Aveiro, Braga, Guarda, Leiria, Faro
- 2 cases - Vila Real
- 3 cases - Castelo Branco, Porto, Santarém
- 4 cases - Setúbal
- 11 cases - Lisboa

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	Number of herds to be	Number of herds	Number of positive	Number of new	Number of herds depo-
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			herds under the programme	checked under the programme this year	checked	herds	positive herds	plated
		% of herds depopulated	% of herds coverage		% of positive herds Period herd prevalence		% of positive herds Herd incidence	
DSAVRN	Sheep and Goats	14,683	14,683	14,683	14,117	166	141	2
		1.2 %	96.15 %		1.18 %		1 %	
DSAVRC	Sheep and Goats	23,338	23,338	23,338	22,293	3	3	0
		0 %	95.52 %		0.01 %		0.01 %	
DSAVRLVT	Sheep and Goats	6,558	6,558	6,558	6,223	26	20	4
		15.38 %	94.89 %		0.42 %		0.32 %	
DSAVRALT	Sheep and Goats	8,395	8,395	8,395	8,001	8	8	0
		0 %	95.31 %		0.1 %		0.1 %	
DSAVRALG	Sheep and Goats	1,003	1,003	1,003	999	0	0	0
		%	99.6 %		0 %		0 %	
Total		53,977	53,977	53,977	51,633	203	172	6
		2.96 %	95.66 %		0.39 %		0.33 %	

Table B - DATA ON ANIMALS

Region	Animal species	Total number of animals	Number of animals under the programme	Number of animals to be tested under the programme this year	Number of animals tested	Number of animals tested individually	Number of positive animals	Number of animals with positive result slaughtered or culled	Number of animals slaughtered
		% coverage at animals level				% positive animals Animal Prevalence			
DSAVRN	Sheep and Goats	370,309	370,309	341,929	325,920	325,920	633	665	706
					95.32 %				0.19 %
DSAVRC	Sheep and Goats	526,662	526,662	399,317	363,039	363,039	3	3	3
					90.91 %				0 %
DSAVRLVT	Sheep and Goats	208,852	2,038,852	185,884	155,622	155,622	110	112	301
					83.72 %				0.07 %
DSAVRALT	Sheep and Goats	1,186,443	1,186,443	751,265	566,138	566,138	9	9	7
					75.36 %				0 %
DSAVRALG	Sheep and Goats	49,377	49,377	49,074	48,400	48,400	0	1	1
					98.63 %				0 %
Total		2,341,643	4,171,643	1,727,469	1,459,119	1,459,119	755	790	1,018
					84.47 %				0.05 %

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)
DSAVRN	Sheep and Goats	14,683	370,309	3,000	2,732	31,685	31,732	0	31,685	0
DSAVRC	Sheep and Goats	23,338	526,662	300	162	2,564	2,564	0	2,564	0
DSAVRLVT	Sheep and Goats	6,558	208,852	7	1	19	19	0	19	0
DSAVRALG	Sheep and Goats	1,003	49,377	33	0	0	0	0	0	0
Total		45,582	1,155,200	3,340	2,895	34,268	34,315	0	34,268	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
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					Last check positive	Last check negative			
herds	DSAVRN	Sheep and Goats	14,683	0	17	34	339	4,537	9,756
animals	"	"	370,309	0	2,348	3,906	8,640	247,604	107,811
herds	DSAVRC	Sheep and Goats	23,338	0	0	0	614	368	22,356
animals	"	"	526,662	0	0	0	7,476	35,725	483,461
herds	DSAVRLVT	Sheep and Goats	6,558	0	1	7	351	7	6,192
animals	"	"	208,852	0	70	1,095	6,000	736	200,951
herds	DSAVRALT	Sheep and Goats	8,395	0	0	1	194	0	8,200
animals	"	"	1,186,443	0	0	16	9,539	0	1,176,888
herds	DSAVRALG	Sheep and Goats	1,003	0	0	2	32	230	739
animals	"	"	49,377	0	0	591	720	14,345	33,721
Total - herds			53,977	0	18	44	1,530	5,142	47,243
Total - animals			2,341,643	0	2,418	5,608	32,375	298,410	2,002,832

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

Region	Animal species	Status	Reason	Number of herds
DSAVRN	Sheep and Goats	Suspended	Non-negative result in diagnostic test	60
DSAVRN	Sheep and Goats	Suspended	Does not fulfil the routine testing frequency	110
DSAVRN	Sheep and Goats	Suspended	Entering animals in the herd with insufficient status	165
DSAVRN	Sheep and Goats	Suspended	The disease is suspected	4
DSAVRC	Sheep and Goats	Suspended	Non-negative result in diagnostic test	47
DSAVRC	Sheep and Goats	Suspended	Does not fulfil the routine testing frequency	185
DSAVRC	Sheep and Goats	Suspended	Entering animals in the herd with insufficient status	379
DSAVRC	Sheep and Goats	Suspended	The disease is suspected	3
DSAVRLVT	Sheep and Goats	Suspended	Non-negative result in diagnostic test	5
DSAVRLVT	Sheep and Goats	Suspended	Does not fulfil the routine testing frequency	105
DSAVRLVT	Sheep and Goats	Suspended	Entering animals in the herd with insufficient status	238
DSAVRLVT	Sheep and Goats	Suspended	The disease is suspected	3
DSAVRALT	Sheep and Goats	Suspended	Non-negative result in diagnostic test	23
DSAVRALT	Sheep and Goats	Suspended	Does not fulfil the routine testing frequency	83
DSAVRALT	Sheep and Goats	Suspended	Entering animals in the herd with insufficient status	82
DSAVRALT	Sheep and Goats	Suspended	The disease is suspected	6
DSAVRALG	Sheep and Goats	Suspended	Non-negative result in diagnostic test	2
DSAVRALG	Sheep and Goats	Suspended	Does not fulfil the routine testing frequency	3
DSAVRALG	Sheep and Goats	Suspended	Entering animals in the herd with insufficient status	27
DSAVRALG	Sheep and Goats	Suspended	The disease is suspected	0
Total				1,530

Table F - STRATIFIED DATA ON SURVEILLANCE AND LABORATORY TESTS

Region	Animal species	Test type	Number of samples	Number of tests	Number of positive tests
DSAVRN	Sheep and Goats	Rose Bengal test	364,752	364,752	1,204
DSAVRN	Sheep and Goats	Complement fixation test	74,648	74,648	537
DSAVRN	Sheep and Goats	Bacteriological test	418	418	93
DSAVRC	Sheep and Goats	Rose Bengal test	366,630	366,630	399
DSAVRC	Sheep and Goats	Complement fixation test	20,572	20,572	33
DSAVRC	Sheep and Goats	Bacteriological test	3	3	0
DSAVRLVT	Sheep and Goats	Rose Bengal test	161,813	161,813	107
DSAVRLVT	Sheep and Goats	Complement fixation test	23,321	23,321	65
DSAVRLVT	Sheep and Goats	Bacteriological test	54	54	16
DSAVRALT	Sheep and Goats	Rose Bengal test	579,457	579,457	120
DSAVRALT	Sheep and Goats	Complement fixation test	32,043	32,043	14

DSAVRALT	Sheep and Goats	Bacteriological test	7	7	0
DSAVRALG	Sheep and Goats	Rose Bengal test	50,669	50,669	17
DSAVRALG	Sheep and Goats	Complement fixation test	3,740	3,740	0
DSAVRALG	Sheep and Goats	Bacteriological test	1	1	0
Total			1,678,128	1,678,128	2,605
		Methods of laboratory analysis	Total number of tests		
		Total - Bacteriological test	483		
		Total - Complement fixation test	154,324		
		Total - Rose Bengal test	1,523,321		

COMMENT / ADDITIONAL CLARIFICATION

1.9.1 SANTE Data Collection Platform - PRODUCTION • Contact us at SANTE-XMLGATE3@ec.europa.eu