

## Eradication: Final report for Sheep And Goat Brucellosis 2018

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).

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ID: 20190430-W7DJA1PA

**Country code:** IT

### Reporting period

**From:** 2018

**To:** 2018

**Year of implementation:** 2018

## 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.**

Brucella melitensis has been eradicated from most part Italian territory. Out of 19 Regions and 2 Autonomous provinces, 15 of them and 2 Province of the Region Abruzzo and Puglia have been declared Officially B. melitensis - Free according to EU legislation (ANNEX 1). MAPPA TERRITORI UI E NON UI To give to the local veterinary services the instruments to speed up the process of eradication especially in those regions where the disease is still present, the Ministry of Health is in course to extend has extended the Ministerial Ordinance 28 May 2015, in force until June 2019 and applied in all not OTbF territories, improving in this way, an uniform eradication of the disease in all Italy, that provided in summary the following measures (ANNEX 2): ORDINANZA MINISTERIALE

- 1) Responsibility of the Chief of local Veterinary service on the control of 100% of the herds;
- 2) Registration of pastures;
- 3) Controls of Dealers;
- 4) Control of fattening herds;
- 5) Controls on animals before and after movement;
- 6) Electronic identifications of animals of the outbreak (rumen bolus);
- 7) Electronic identifications of animals subjected to movement;
- 8) Capture and control of animals at pasture that have no owner or that have an owner that does not

assure capture and the restraint of animals;

9) Guidelines for stamping-out;

10) Elaboration, already at the suspect, of the epidemiological investigations, following the guide lines (ANNEX 3) of the Ministry of health;

11) Compulsory use of the data base, SANAN and SIMAN;

12) Sanctions and withdrawal of the status of OTF of the herds in case of fraud;

13) Control of the efficacy and efficiency by local and regional veterinary service.

The planned and achievable objective for 2018 was for other Italian provinces and regions to meet (or retain) the requirements to qualify for the officially disease-free status (or disease-free status where vaccination is applied) as regards brucellosis in sheep and goats.

In year 2018, the prevalence recorded for the disease in Italy, calculated on all the herds under control present in the national territory, has been 0,29%, reduced respect the 2017 that was 0,35%. In the territories not BmF the prevalence recorded has been 0,88%, with an incidence of 0,73% reduced respect at the prevalence and incidence recorded in the 2017: respectively 0,99% and 0,84%

The higher prevalence in Italy is reported from Sicily region, with an overall prevalence of 2,43% flocks infected on the controlled, and with the Provinces of Messina recording the highest value amongst all provinces, 5,52 %. However is important to underline that these data of prevalence are in reduction respect the 2017 (2,96%) as well as respect at the 2014 (3,40 %).

In July, the Ministry of Health has verified during a follow-up Audit regarding the verification of efficacy, the measures applied in Sicily by the Regional Decree 2113/2017, as response at the solicitation of the DGSANTE to faster the eradication of *B. melitensis*.

The auditor have visited the ASP of Messina and Palermo and at the end have produced the following recommendation:

1. Guarantee the communication to the Ministry of Health of the results of the checks on the effectiveness of the controls in the annual report of the activity carried out, in accordance with the provisions of art. 12 paragraph 2 of the O.M. 28 May 2015.
2. Guarantee the harmonization and standardization of the effectiveness verification activities with suitable checklists such as to ensure an adequate level of quality control in the audited sector in accordance with art. 4 (3) and of the art. 8 (1) of Regulation 882/2004 and instructions to ensure consistency in the frequency, timing and percentages of control in the field and checks on information systems.
3. To ensure that the competent Authorities of the AASSPP draw up and implement an annual program of interventions to verify the effectiveness of the activities carried out, pursuant to art. 8 paragraph 3 of Regulation (EC) no. 882/2004 and according to the provisions of the State-Regions Agreement of 7 February 2013 n. 46 / CSR and of the art.12 comma 1) of the O.M. of May 28th, 2015 and s.m.
4. Ensure that the AASSPPs implement all the measures provided for by the art. 3, 5, 6 and 8 of the Regional Extraordinary Plan of 10/26/2017 issued at the request of the Ministry of Health (prot. DGSAF n. 21373 of 21/09/2017) concerning:
  - the correct identification of the animals;
  - the control of animal movements;
  - the increased level of field checks.
5. Ensure that the AASSPPs carry out 100% of the annual control for ovine and caprine brucellosis, in accordance with the D.M. 2 July 1992, n. 453.
6. Ensure that the AASSPPs implement an internal cascade training program on the use of the SANAN, SIMAN and BDN remediation management information systems in order to guarantee the provisions of art. 8, paragraph 1f) of the Regional Extraordinary Plan of 10/26/2017.

To improve the supervision of the eradication plans the Ministry of Health organized a Workshop on the national database started in September 2017 and that has ended in November 2018.

Trough specific Working Groups the Workshop has had the aim to renew the databases: SANAN, SISALM, BDN for ASF, the Electronic Veterinary Recipe and build of a DASHBOARD to control the eradication plans activities.

The Working groups has started the activities at January 2018 and have finished the 14 of November 2018 in a plenary meeting involving 200 veterinarians employed in Regions, local veterinary unit, Laboratories (Institute Zooprofilattico Sperimentale), Regional Epidemiological Observatories, National Centre of Reference for brucellosis.

In the plenary meeting the speakers have presented the roadmap of the works done on informatics systems mentioned above and the related results achieved. In the same reunion have been presented the DASHBOARD that make possible at, Local, Regional and Central level the control on the application of the eradication program.

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

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Analysis of the data received from the regions concerning the eradication activities carried out between

2018 and 2017 (ANNEX 3 and 4) ALLEGATI RENDICONTAZIONI has revealed the situation described below. The sheep and goat national holdings population subject to the program in the year 2018 is decreased (37093), compared with the data of 2017 (37938).

Also the number of controlled holdings is decreased (35449) with respect to 2017 (36506). The number of positive holdings is lower (311), than in 2017 (362). The number of outbreaks stamped-out (17) is higher than in 2017 (10).

The percentage of holdings controlled in 2018 (99.22%) have no significant difference respect at the percentage of control performed in 2017 (99.56%), however, it is less than the figure defined as final objective prescribed in new Ministerial Order of the 28 of May 2015 (100%). The prevalence and incidence registered in 2018 are lower (0,88% - 0,73%) than the results obtained in 2017 (0,99% - 0,77%).

The target fixed in the WORKING DOCUMENT SANTE/2017/10186 rev 1 Guidelines for the Union co-funded programmes of eradication, control and surveillance of animal diseases and zoonoses for the years 2018-2020, for the entire nation has been established in a reduction of 50% of 0.42 = 0,21.

The prevalence recorded for the melitensis in Italy in 2018 calculated on all the herds under control, has been: 0,29% (ANNEX 5).

### 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.

Four regions are totally still not OBF (Sicilia, Calabria, Basilicata, Campania).

Two Regions still not OBF have Province OBF in their territories:

Puglia - Province of Brindisi;

Abruzzo - Province of Pescara. (ANNEX 1)

The Province of Benevento in Campania has reached the condition for the request of OmF.

The trends of sheep and goats brucellosis prevalence and incidence in B. melitensis not OBF territories are clearly declining during the last five years from 1,21% to 0,88% (ANNEX 1). The absolute number of positive flocks has decreased in the last five years.

The percentage of controls in 2018 are close to the target of 100%.

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

Relatively to these points see the annexes: (ANNEX 4).

## 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	
BASILICATA	Sheep and Goats	5,816	5,725	5,725	5,725	23	19	2
		8.7 %	100 %		0.4 %		0.33 %	
CALABRIA	Sheep and Goats	8,262	7,836	7,836	7,567	42	39	1
		2.38 %	96.57 %		0.56 %		0.52 %	
CAMPANIA	Sheep and Goats	6,966	6,480	6,480	6,480	22	22	3
		13.64 %	100 %		0.34 %		0.34 %	
PUGLIA	Sheep and Goats	3,408	3,355	3,355	3,355	14	13	3
		21.43 %	100 %		0.42 %		0.39 %	
SICILIA	Sheep and Goats	8,769	8,580	8,580	8,569	208	163	8
		3.85 %	99.87 %		2.43 %		1.9 %	
<b>Total</b>		33,221	31,976	31,976	31,696	309	256	17
		5.5 %	99.12 %		0.97 %		0.81 %	

**Table B - DATA ON ANIMALS**

Region	Animal species	Total number of	Number of animals	Number of animals to	Number of animals	Number of animals	Number of positive	Number of animals	Number of animals
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		animals	under the programme	be tested under the programme this year	tested	tested individually	animals	with positive result slaughtered or culled	slaughtered
		% coverage at animals level				% positive animals Animal Prevalence			
BASILICATA	Sheep and Goats	174,500	164,283	164,283	164,283	164,283	52	51	57
		100 %				0.03 %			
CALABRIA	Sheep and Goats	373,656	357,527	357,527	344,134	344,134	309	297	514
		96.25 %				0.09 %			
CAMPANIA	Sheep and Goats	248,137	233,725	233,725	233,725	233,725	409	406	517
		100 %				0.17 %			
PUGLIA	Sheep and Goats	307,549	286,112	286,112	286,112	286,112	25	25	343
		100 %				0.01 %			
SICILIA	Sheep and Goats	965,173	922,102	922,102	920,786	920,786	7,604	7,301	8,558
		99.86 %				0.83 %			
<b>Total</b>		2,069,015	1,963,749	1,963,749	1,949,040	1,949,040	8,399	8,080	9,989
		99.25 %				0.43 %			

**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)
<b>Total</b>		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			
<b>herds</b>	BASILICATA	Sheep and Goats	5,725	0	3	10	4	0	5,708
<b>animals</b>	"	"	164,283	0	1,113	496	82	0	162,592
<b>herds</b>	CALABRIA	Sheep and Goats	7,749	11	9	67	36	0	7,626
<b>animals</b>	"	"	356,202	491	656	4,958	2,668	0	347,429
<b>herds</b>	CAMPANIA	Sheep and Goats	6,411	0	11	250	14	0	6,136
<b>animals</b>	"	"	236,076	0	1,515	4,103	715	0	229,743
<b>herds</b>	PUGLIA	Sheep and Goats	3,355	0	0	9	2	0	3,344
<b>animals</b>	"	"	286,112	0	0	2,683	1,108	0	282,321
<b>herds</b>	SICILIA	Sheep and Goats	8,470	0	56	194	150	0	8,070
<b>animals</b>	"	"	914,296	0	14,505	31,596	16,867	0	851,328
<b>Total - herds</b>			31,710	11	79	530	206	0	30,884
<b>Total - animals</b>			1,956,969	491	17,789	43,836	21,440	0	1,873,413

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

Region	Animal species	Status	Reason	Number of herds
BASILICATA	Sheep and Goats	suspended	non-negative result in diagnostic test	4
CALABRIA	Sheep and Goats	suspended	non-negative result in diagnostic test	1
CALABRIA	Sheep and Goats	suspended	does not fulfil the routine testing frequency	33
CALABRIA	Sheep and Goats	suspended	the disease is suspected	15
CAMPANIA	Sheep and Goats	suspended	does not fulfil the routine testing frequency	1
CAMPANIA	Sheep and Goats	suspended	non-negative result in diagnostic test	19
PUGLIA	Sheep and Goats	suspended	non-negative result in diagnostic test	2

SICILIA	Sheep and Goats	suspended	the disease is suspected	29
SICILIA	Sheep and Goats	suspended	does not fulfil the routine testing frequency	76
SICILIA	Sheep and Goats	suspended	non-negative result in diagnostic test	43
SICILIA	Sheep and Goats	suspended	entering animals in the herd with insufficient status	2
<b>Total</b>				225

**Table F - STRATIFIED DATA ON SURVEILLANCE AND LABORATORY TESTS**

Region	Animal species	Test type	Number of samples	Number of tests	Number of positive tests
BASILICATA	Sheep and Goats	Rose bengal test	169,091	169,091	65
CALABRIA	Sheep and Goats	Rose bengal test	356,081	356,081	321
CAMPANIA	Sheep and Goats	Rose bengal test	235,593	235,593	387
PUGLIA	Sheep and Goats	Rose bengal test	315,248	315,248	134
SICILIA	Sheep and Goats	Rose bengal test	1,053,545	1,053,545	7,543
BASILICATA	Sheep and Goats	Complement fixation test	0	20,580	52
CALABRIA	Sheep and Goats	Complement fixation test	0	35,642	263
PUGLIA	Sheep and Goats	Complement fixation test	0	47,361	25
SICILIA	Sheep and Goats	Complement fixation test	0	325,267	7,434
CALABRIA	Sheep and Goats	Bacteriological test	112	112	7
BASILICATA	Sheep and Goats	Bacteriological test	36	36	0
CAMPANIA	Sheep and Goats	Bacteriological test	400	400	3
PUGLIA	Sheep and Goats	Bacteriological test	259	259	1
SICILIA	Sheep and Goats	Bacteriological test	516	516	34
PUGLIA	Sheep and Goats	PCR test	0	166	1
SICILIA	Sheep and Goats	PCR test	0	34	12
CAMPANIA	Sheep and Goats	Complement fixation test	0	19,112	370
<b>Total</b>			2,130,881	2,579,043	16,652
			<b>Methods of laboratory analysis</b>	<b>Total number of tests</b>	
			<b>Total - Bacteriological test</b>	1,323	
			<b>Total - Complement fixation test</b>	447,962	
			<b>Total - PCR test</b>	200	
			<b>Total - Rose bengal test</b>	2,129,558	

## COMMENT / ADDITIONAL CLARIFICATION

As requested by the Commission, in this version of the report have been deleted the data of ABRUZZO region.