

## Eradication: Final report for Bluetongue 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).

**This form is for information only, no submission possible.**

ID: 20190412-EMANB3TT

**Country code:** EL

### 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.**

#### BT SURVEILLANCE ACTIVITIES

##### Active Surveillance for Bluetongue

A. Monitoring of virus circulation (that is: combined serological and virological surveillance).

It included collection of 60 blood samples every two months from different bovines in all Regional Units of the Country, as they are depicted in the attached Annex and testing.

The aforementioned samples could be either:

- serum samples, with or without anti-coagulant, from seronegative cattle (>6 months), tested with ELISA for BT antibodies, or
- whole blood samples from vaccinated or seropositive cattle, tested with PCR for BT Virus detection. In exceptional cases, such samples could also be collected from animals in locations other than the holding (e.g. slaughterhouses).

The aforementioned samples should equally originate from at least 6 holdings, evenly distributed in each Regional Unit of the Country, in order to provide geographical coverage therein. Whole blood testing for BT Virus detection instead of serological examination was intended in Regional Units where availability of

seronegative bovines which could be used as sentinels was not feasible, due to the 2014 BT epizootic or the vaccination conducted thereafter.

#### B. Entomological surveillance

Entomological surveillance comprised the placement of at least 1 vector trap in each prefecture included in Table I of the attached Annex, as follows:

- once monthly, from the 1st January to the 31st March 2018 and the 1st November to the 3d December 2018, and twice monthly from the 1st April to the 31st October 2018 in those Regional Units/Islands, as described in Table I of the attached Annex,
- once monthly throughout the year in the Regional Units/Islands included in Table I of the attached Annex, in a location selected by the Entomology Laboratory. Moreover, it was compulsory to register the exact location and the code number of the holdings where the traps were placed.

Traps were sent to the National Reference Laboratory for BT where molecular techniques were used for BT Virus detection.

#### C. Passive Surveillance for Bluetongue

Clinical surveillance was applied in all ruminants and comprised clinical investigation for presence of typical symptoms of the disease. It was carried out in all animal flocks of species sensitive to BT (bovine, ovine and caprine) all over the Country, as well as in flocks of bovine, ovine and caprine animals, introduced from countries or Member States, where outbreaks of the disease have been identified. In case of suspicion of disease, Local Veterinary Authorities, under the supervision and coordination of the Central Competent Authority, implemented all measures defined in the Bluetongue Contingency Plan.

#### D. Vaccination

Objectives of vaccination are:

- prevention of appearance of clinical manifestations of the disease (mostly in sheep, but also in goats and, to a much lesser extent, in bovines),
- limitation of spread of the disease (e.g. in case of recurrence etc.).

All domestic ruminants would be eligible for vaccination (with the exception of age limitations as to avoid interference with maternal antibodies), aiming to achieve an immunity level of at least 75% in the overall population for at least one year.

Vaccination would be carried out by the Local Veterinary Authorities with the contribution of private veterinarians.

However, optional vaccination was only approved in 2015 (when relevant costs were inflicted upon the farmer) and has not been performed in Greece ever since.

#### E. General description of lab testing scheme for BT

Animals suspected for an active BT infection in accordance with Regulation 1266/2007, were subjected to serological testing and those tested positive were subjected to further testing with PCR for detection of BT Virus. In case of a positive PCR result, further testing was carried out, in order to define the BT Virus serotype (BT virus type-specific PCR). Virus typing was always performed (if feasible) for the first (primary) outbreak confirmed within a Regional Unit, as well as for at least one sample from each BT outbreak during a given transmission period.

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

#### Active Surveillance for Bluetongue

The targets of the Active Surveillance programme have not been achieved, due to:

- a) unavailability of seronegative bovines which could be used as sentinels, because of i) the extended recent epizootic, ii) the formerly conducted vaccination and iii) the decreased numbers of intensively managed bovine herds in areas where free-grazing bovine populations prevail, difficult to restrain so as to perform consecutive samplings,
- b) inadequate personnel in the Veterinary Authorities (Central Authority, Regional and Local Units, Laboratories), already having to cope with an enormous amount of workload, which makes the implementation of the program, difficult or even, in certain Regional Units, unattainable.

#### Vaccination

Vaccination was not performed in 2018.

#### Entomological surveillance

The targets of Active Surveillance have not been achieved, due to:

- a) inadequate personnel in the Veterinary Authorities (Central Authority, Regional and Local Units, Laboratories), already having to cope with an enormous amount of workload, which makes the implementation of the program, difficult or even, in certain Regional Units, unattainable,
- b) the fact that financial processes necessary for provision of adequate number of traps were blocked, as a result of changes in procurement procedures.

**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.**

See attached files

## 2. TECHNICAL IMPLEMENTATION ON BLUETONGUE 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

Table A is not to be filled in for Bluetongue

### 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	Number of animals tested	Number of animals tested individually	Number of positive animals	Number of outbreaks
ATTIKI	Cattle	2,380	60	60	200	40	0	0
ARGOLIDA	Cattle	1,111	60	60	74	64	7	0
ARCADIA	Cattle	2,525	60	60	42	42	0	0
CHALKIDIKI	Cattle	3,703	60	60	207	44	0	0
CHANIA	Cattle	240	60	60	106	58	12	0
DRAMA	Cattle	23,402	60	60	380	90	12	0
EVOIA	Cattle	2,895	60	60	57	36	13	0
EVROS	Cattle	18,635	60	60	140	40	0	0
FLORINA	Cattle	13,184	60	60	300	116	40	0
FOKIDA	Cattle	10,387	60	60	8	8	0	0
GREVENA	Cattle	8,238	60	60	120	55	16	0
IKARIA	Cattle	267	60	60	120	54	6	4
ILEIA	Cattle	7,373	60	60	160	62	3	0
IRAKLEIO	Cattle	1,458	60	60	80	34	4	0
KARDITSA	Cattle	11,460	60	60	206	51	0	0
KASTORIA	Cattle	3,713	60	60	62	62	29	0
KILKIS	Cattle	19,998	60	60	187	60	7	0
KOS	Cattle	3,477	60	60	50	50	13	4
KYKLADES	Cattle	13,763	300	300	645	303	1	0
LAKONIA	Cattle	8,132	60	60	116	59	4	0
LASITHI	Cattle	1,30	60	60	52	27	6	0
LEFKADA	Cattle	633	60	60	129	69	1	0
LESVOS	Cattle	6,233	60	60	378	136	33	0
MESSINIA	Cattle	5,625	60	60	185	176	5	0
PELLA	Cattle	19,990	60	60	298	61	0	0
PREVEZA	Cattle	18,143	60	60	228	57	6	0
RODOPI	Cattle	27,593	60	60	293	62	4	0
SAMOS	Cattle	161	60	60	141	42	36	8
THESSALONIKI	Cattle	59,557	60	60	151	57	14	0
VOIOTIA	Cattle	8,275	60	60	127	68	14	0
XANTHI	Cattle	24,153	60	60	240	90	0	0
ATTIKI	Sheep and Goats	121,937	0	0	62	62	24	0
CHALKIDIKI	Sheep and Goats	176,527	0	0	21	21	11	0
CHANIA	Sheep and Goats	477,727	0	0	1	1	0	0
EVOIA	Sheep and Goats	267,194	0	0	11	11	3	0

EVROS	Sheep and Goats	167,946	0	0	21	21	1	0
FOKIDA	Sheep and Goats	107,063	0	0	8	8	0	0
IKARIA	Sheep and Goats	17,670	0	0	14	14	0	0
IRAKLEIO	Sheep and Goats	929,991	0	0	11	11	0	0
KARDITSA	Sheep and Goats	210,044	0	0	1	1	0	0
KASTORIA	Sheep and Goats	89,807	0	0	15	15	1	0
KILKIS	Sheep and Goats	207,077	0	0	12	12	1	0
KOS	Sheep and Goats	24,959	0	0	8	8	1	1
LAKONIA	Sheep and Goats	262,541	0	0	12	12	0	0
LESVOS	Sheep and Goats	432,216	0	0	25	25	4	0
LIMNOS	Sheep and Goats	87,550	0	0	10	10	0	0
PIERIA	Sheep and Goats	162,297	0	0	3	3	0	0
RHODES	Sheep and Goats	41,332	0	0	12	12	8	1
SAMOS	Sheep and Goats	12,446	0	0	27	27	6	0
<b>Total</b>		<b>4,123,058</b>	<b>2,100</b>	<b>2,100</b>	<b>5,756</b>	<b>2,447</b>	<b>346</b>	<b>18</b>

**Table C - DATA ON VACCINATION PROGRAMMES**

Region	Animal species	Total number of herds	Total number of animals	Serotype	Number of herds in vaccination programme	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**

Table D is not to be filled in for Bluetongue

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

Table E is not to be filled in for Bluetongue

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

Region	Animal species	Number of samples	Test type	Number of tests	Number of positive tests
ATTIKI	Cattle	209	Elisa test	209	3
ATTIKI	Cattle	1	PCR test	1	0
ATTIKI	Sheep and Goats	62	Elisa test	65	24
ATTIKI	Sheep and Goats	1	PCR test	3	0
ARGOLIDA	Cattle	74	Elisa test	94	10
ARGOLIDA	Cattle	7	PCR test	7	0
ARCADIA	Cattle	42	Elisa test	42	0
CHALKIDIKI	Cattle	207	Elisa test	218	54
CHALKIDIKI	Cattle	28	PCR test	28	0
CHALKIDIKI	Sheep and Goats	21	Elisa test	21	11
CHALKIDIKI	Sheep and Goats	17	PCR test	17	0
CHANIA	Cattle	106	Elisa test	106	12
CHANIA	Cattle	6	PCR test	6	0
CHANIA	Sheep and Goats	1	Elisa test	1	0
CHANIA	Sheep and Goats	1	PCR test	1	0
EVOIA	Cattle	57	Elisa test	58	13
EVOIA	Cattle	13	PCR test	13	0
EVOIA	Sheep and Goats	11	Elisa test	11	3
EVOIA	Sheep and Goats	3	PCR test	3	0
EVROS	Cattle	140	Elisa test	140	0
EVROS	Sheep and Goats	21	Elisa test	7	1

EVROS	Sheep and Goats	11	PCR test	11	0
FLORINA	Cattle	300	Elisa test	307	44
FLORINA	Cattle	44	PCR test	44	0
FOKIDA	Cattle	8	Elisa test	8	0
FOKIDA	Sheep and Goats	8	Elisa test	8	0
FOKIDA	Sheep and Goats	8	PCR test	8	0
GREVENA	Cattle	120	Elisa test	120	16
GREVENA	Cattle	18	PCR test	18	0
IKARIA	Cattle	127	Elisa test	127	5
IKARIA	Cattle	40	PCR test	40	9
IKARIA	Sheep and Goats	14	Elisa test	14	0
ILEIA	Cattle	160	Elisa test	163	6
IRAKLEIO	Cattle	80	Elisa test	90	4
IRAKLEIO	Cattle	5	PCR test	5	0
IRAKLEIO	Sheep and Goats	11	Elisa test	11	0
IRAKLEIO	Sheep and Goats	5	PCR test	5	0
KYKLADES	Cattle	651	Elisa test	652	1
KYKLADES	Cattle	1	PCR test	1	0
KARDITSA	Cattle	206	Elisa test	206	0
KARDITSA	Sheep and Goats	1	Elisa test	1	0
KARDITSA	Sheep and Goats	1	PCR test	1	0
KASTORIA	Cattle	62	Elisa test	62	29
KASTORIA	Cattle	29	PCR test	29	0
KASTORIA	Sheep and Goats	15	Elisa test	15	1
KASTORIA	Sheep and Goats	1	PCR test	1	0
KILKIS	Cattle	187	Elisa test	194	7
KILKIS	Sheep and Goats	12	Elisa test	7	1
KILKIS	Sheep and Goats	12	PCR test	12	0
KOS	Cattle	53	Elisa test	54	22
KOS	Cattle	38	PCR test	38	9
KOS	Sheep and Goats	8	Elisa test	8	1
KOS	Sheep and Goats	2	PCR test	2	2
LASITHI	Cattle	52	Elisa test	52	6
LASITHI	Cattle	7	PCR test	7	0
LAKONIA	Cattle	116	Elisa test	122	4
LAKONIA	Cattle	4	PCR test	4	0
LAKONIA	Sheep and Goats	12	Elisa test	12	0
LAKONIA	Sheep and Goats	12	PCR test	12	0
LEFKADA	Cattle	129	Elisa test	130	0
LEFKADA	Cattle	1	PCR test	1	0
LESVOS	Cattle	412	Elisa test	416	33
LESVOS	Cattle	4	PCR test	4	0
LESVOS	Sheep and Goats	24	Elisa test	24	4
LESVOS	Sheep and Goats	25	PCR test	25	0
LIMNOS	Sheep and Goats	10	Elisa test	10	0
MESSINIA	Cattle	185	Elisa test	185	5
MESSINIA	Cattle	7	PCR test	7	0
PELLA	Cattle	298	Elisa test	298	0
PIERIA	Sheep and Goats	3	Elisa test	3	3
PIERIA	Sheep and Goats	8	PCR test	8	0

PREVEZA	Cattle	228	Elisa test	231	8
PREVEZA	Cattle	6	PCR test	6	0
RODOPI	Cattle	269	Elisa test	269	4
RHODES	Sheep and Goats	12	Elisa test	12	8
RHODES	Sheep and Goats	46	PCR test	46	15
SAMOS	Cattle	172	Elisa test	172	55
SAMOS	Cattle	260	PCR test	260	59
SAMOS	Cattle	27	Elisa test	27	6
SAMOS	Sheep and Goats	17	PCR test	17	3
THESSALONIKI	Cattle	157	Elisa test	162	21
THESSALONIKI	Cattle	16	PCR test	16	0
VOIOTIA	Cattle	127	Elisa test	138	14
VOIOTIA	Cattle	7	PCR test	7	0
XANTHI	Cattle	240	Elisa test	240	0
DRAMA	Cattle	380	Elisa test	381	12
DRAMA	Cattle	14	PCR test	14	0
<b>Total</b>		6,553		6,631	548
			<b>Methods of laboratory analysis</b>	<b>Total number of tests</b>	
			<b>Total - Elisa test</b>	5,903	
			<b>Total - PCR test</b>	728	

## COMMENT / ADDITIONAL CLARIFICATION

n/a