

## 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.

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**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.**

The bluetongue (BT) surveillance programme is based on serological and entomological surveillance activities, carried out all over the country.

In 2013, a large BTV-1 outbreak affected, initially, Sardinia, Sicily and some coastal areas of central and southern Italy, and, then most of the Italian peninsula with the exclusion of its northern regions. BTV-1 continued circulating in the following years with a decreasing number of outbreaks, thanks to the vaccination activities carried out.

Year 2013: 5,872 BTV-1 outbreaks, with 340,085 BT cases and 107,902 dead animals.

Year 2014: 1,387 BTV-1 outbreaks, with 12,434 BT cases and 6,159 dead animals.

Year 2015: 121 BTV-1 outbreaks, with 293 BT cases and 3 dead animals.

Year 2016: 88 BTV-1 outbreaks, with 180 cases (of which 10 showing clinical signs) and no dead animals.

Year 2017: 50 BTV-1 outbreaks, with 123 cases (of which 9 showing clinical signs) and 4 dead animals.

Year 2018: 29 BTV-1 outbreaks, with 56 cases (of which 2 showing clinical signs) and 0 dead animals.

During the first six months of 2018, 14 BTV-1 outbreaks were confirmed with 27 cases (of which 2 showing clinical signs) and no dead animals. Of these 14 outbreaks, 7 were seroconversions in sentinel animals and 7 were confirmed as follow-up of diagnostic surveys.

In late autumn 2014, BTV-4 was detected in Apulia region and then spread in southern part of Italy.

Year 2014: 25 BTV-4 outbreaks, with 19 BT cases and 2 dead animals.

Year 2015: 162 BTV-4 outbreaks, with 3,646 cases and 1,005 dead animals.

Year 2016: BTV-4 continued affecting central and southern regions and it was detected at the end of August in Veneto region, probably coming from the eastern European countries. The BTV-4 infection spread across Veneto, Friuli, Lombardy regions and Trento province. Overall 939 outbreaks were confirmed, with 5,713 cases (of which 2,481 showing clinical signs) and 1,103 dead animals.

Year 2017: BTV-4 continued circulating all over the country with overall 2,576 outbreaks confirmed in new regions (Abruzzi, Basilicata, Calabria, Campania, Emilia Romagna, Lazio, Liguria, Molise, Apulia, Sardinia, Sicily, Tuscany, Umbria) compared to the regions affected in 2016. Of these outbreaks, 94.6% of outbreaks were confirmed in Sardinia, with 123,106 cases (of which 101,426 showing clinical signs) and 35,023 dead animals.

During 2018, 73 BTV-4 outbreaks were confirmed, with 294 cases (of which 114 showing clinical signs) and 25 dead animals. During 2018, BTV-4 was notified in Basilicata, Campania, Lazio, Puglia, Sardinia, Sicily, Umbria and Veneto regions.

In November 2017, a BTV-3 outbreak was confirmed in a farm in Sicily region, Trapani province, with a total number of 40 clinical cases and 1 dead animal. The reinforced surveillance program put place in the Trapani province detected only one new outbreak of BTV3 in November 2018. At the end of September 2018 BTV-3 was detected in the southern part of Sardinia region, 25 BTV-3 outbreaks were confirmed, with 376 cases (of which 298 showing clinical signs) and 125 dead animals.

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

The BT Italian surveillance system includes a passive surveillance of all possible BT cases, suspected on the basis of the clinical signs and a serological programme based on sentinel animals. All suspected and confirmed cases of BT are registered in the National Information System of Animal Diseases (SIMAN).

In 2018 the surveillance system in place in Italy has been able to early detect the incursion into free territories of new serotypes (BTV-3 in Sardinia) and to monitor BTV-1, BTV-4 and BTV-3 (in Sicily) circulation and spread in the zones already infected.

The spread of the virus was successfully controlled to through the prompt and strict application of veterinary measures on animal movements from restricted zones.

The entomological surveillance based on more than 300 Culicoides Onderstepoort black-light suction traps was used to define the seasonal dynamics of main vector species for the annual identification of seasonally free areas and periods, in compliance with the Annex V of Regulation (EC) No 1266/2007. Considering the financial, the organizational limitations and the cost-benefit analyses made by the regional veterinary authorities, the vaccination against the circulating BTV serotypes of farmed animals belonging to the susceptible species (cattle, buffaloes, sheep, goats) with the sole exception of sentinel animals, was carried out in compliance with regional plans. Vaccination against BTV-1 and BTV-4 of all susceptible species was performed only in Sardinia in order to reduce the impact of the disease due to sheep mortality.

The other Italian regions limited the vaccination of the susceptible animals to those to be moved toward free territories or areas under restriction for different serotypes.

## 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.

BTV 2018 outbreaks map

## 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
PIEMONTE	Domestic Ruminants (Cattle, sheep, goats)	974,458	1,835	1,835	2,947	2,947	0	0
VALLE D'AOSTA	Domestic Ruminants (Cattle, sheep, goats)	40,090	100	100	257	257	0	0
LOMBARDIA	Domestic Ruminants (Cattle, sheep, goats)	1,719,580	2,459	2,459	4,807	4,807	0	0
TRENTINO - ALTO ADIGE (BZ)	Domestic Ruminants (Cattle,	178,479	72	72	329	329	0	0

	sheep, goats)										
TRENTINO - ALTO ADIGE (TN)	Domestic Ruminants (Cattle, sheep, goats)	93,214	25	25	300	300	0	0			
VENETO	Domestic Ruminants (Cattle, sheep, goats)	867,796	297	297	1,807	1,807	5	3			
FRIULI VENEZIA GIULIA	Domestic Ruminants (Cattle, sheep, goats)	108,363	449	449	680	680	0	0			
LIGURIA	Domestic Ruminants (Cattle, sheep, goats)	35,308	297	297	380	380	0	0			
EMILIA ROMAGNA	Domestic Ruminants (Cattle, sheep, goats)	644,533	1,521	1,521	3,393	3,393	6	3			
TOSCANA	Domestic Ruminants (Cattle, sheep, goats)	507,071	799	799	1,525	1,525	0	0			
UMBRIA	Domestic Ruminants (Cattle, sheep, goats)	172,250	244	244	401	401	3	2			
MARCHE	Domestic Ruminants (Cattle, sheep, goats)	196,178	324	324	566	566	0	0			
LAZIO	Domestic Ruminants (Cattle, sheep, goats)	1,024,720	618	618	995	995	7	3			
ABRUZZO	Domestic Ruminants (Cattle, sheep, goats)	257,917	319	319	579	579	0	0			
MOLISE	Domestic Ruminants (Cattle, sheep, goats)	114,119	122	122	326	326	0	0			
CAMPANIA	Domestic Ruminants (Cattle, sheep, goats)	696,299	408	408	1,021	1,021	8	4			
PUGLIA	Domestic Ruminants (Cattle, sheep, goats)	482,329	637	637	1,580	1,580	13	5			
BASILICATA	Domestic Ruminants (Cattle, sheep, goats)	368,556	328	328	787	787	11	5			
CALABRIA	Domestic Ruminants (Cattle, sheep, goats)	497,502	527	527	2,630	2,630	3	2			
SICILIA	Domestic Ruminants (Cattle, sheep, goats)	1,319,528	870	870	5,078	5,078	149	51			
SARDEGNA	Domestic Ruminants (Cattle, sheep, goats)	3,640,358	1,472	1,472	2,493	2,493	522	50			
<b>Total</b>		<b>13,938,648</b>	<b>13,723</b>	<b>13,723</b>	<b>32,881</b>	<b>32,881</b>	<b>727</b>	<b>128</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)
LOMBARDIA	Sheep and Goats	10,917	203,411	BTV-4	10,917	1,326	49,138	49,513	47,378	1,760	49,138
SARDEGNA	Sheep and Goats	15,236	3,389,860	BTV1-4	15,236	5,914	823,572	823,572	823,572	0	823,572
CAMPANIA	Cattle	9,745	455,298	BTV1-4	9,745	68	1,780	3,180	1,780	0	1,780
FRIULI VENEZIA GIULIA	Cattle	1,649	78,671	BTV-4	1,649	408	21,885	21,975	21,885	0	21,885
CAMPANIA	Sheep and Goats	7,336	241,001	BTV1-4	7,336	2	11	22	11	0	11
<b>Total</b>		<b>44,883</b>	<b>4,368,241</b>		<b>44,883</b>	<b>7,718</b>	<b>896,386</b>	<b>898,262</b>	<b>894,626</b>	<b>1,760</b>	<b>896,386</b>

**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
PIEMONTE	Domestic Ruminants (Cattle, sheep, goats)	22,143	Elisa test	22,143	2

PIEMONTE	Domestic Ruminants (Cattle, sheep, goats)	90	Other Please Specify:SN	90	0
PIEMONTE	Domestic Ruminants (Cattle, sheep, goats)	7	PCR test	7	0
VALLE D'AOSTA	Domestic Ruminants (Cattle, sheep, goats)	1,557	Elisa test	1,557	2
VALLE D'AOSTA	Domestic Ruminants (Cattle, sheep, goats)	10	Other Please Specify:SN	10	1
VALLE D'AOSTA	Domestic Ruminants (Cattle, sheep, goats)	2	PCR test	2	0
LOMBARDIA	Domestic Ruminants (Cattle, sheep, goats)	32,043	Elisa test	32,043	194
LOMBARDIA	Domestic Ruminants (Cattle, sheep, goats)	1,300	Other Please Specify:SN	1,300	7
LOMBARDIA	Domestic Ruminants (Cattle, sheep, goats)	59	PCR test	59	6
TRENTINO - ALTO ADIGE (BZ)	Domestic Ruminants (Cattle, sheep, goats)	329	Elisa test	329	0
TRENTINO - ALTO ADIGE (TN)	Domestic Ruminants (Cattle, sheep, goats)	300	Elisa test	300	0
VENETO	Domestic Ruminants (Cattle, sheep, goats)	1,837	Elisa test	1,837	21
VENETO	Domestic Ruminants (Cattle, sheep, goats)	60	Other Please Specify:SN	60	1
VENETO	Domestic Ruminants (Cattle, sheep, goats)	65	PCR test	65	6
FRIULI VENEZIA GIULIA	Domestic Ruminants (Cattle, sheep, goats)	693	Elisa test	693	4
FRIULI VENEZIA GIULIA	Domestic Ruminants (Cattle, sheep, goats)	40	Other Please Specify:SN	40	0
LIGURIA	Domestic Ruminants (Cattle, sheep, goats)	2,826	Elisa test	2,826	6
LIGURIA	Domestic Ruminants (Cattle, sheep, goats)	60	Other Please Specify:SN	60	3
LIGURIA	Domestic Ruminants (Cattle, sheep, goats)	6	PCR test	6	2
EMILIA ROMAGNA	Domestic Ruminants (Cattle, sheep, goats)	18,545	Elisa test	18,545	129
EMILIA ROMAGNA	Domestic Ruminants (Cattle, sheep, goats)	743	Other Please Specify:SN	743	43
EMILIA ROMAGNA	Domestic Ruminants (Cattle, sheep, goats)	913	PCR test	913	1
TOSCANA	Domestic Ruminants (Cattle, sheep, goats)	11,668	Elisa test	11,668	53
TOSCANA	Domestic Ruminants (Cattle, sheep, goats)	150	Other Please Specify:SN	150	1
TOSCANA	Domestic Ruminants (Cattle, sheep, goats)	9	PCR test	9	2
UMBRIA	Domestic Ruminants (Cattle, sheep, goats)	3,219	Elisa test	3,219	43
UMBRIA	Domestic Ruminants (Cattle, sheep, goats)	268	Other Please Specify:SN	268	11
UMBRIA	Domestic Ruminants (Cattle, sheep, goats)	133	PCR test	133	0
MARCHE	Domestic Ruminants (Cattle, sheep, goats)	3,949	Elisa test	3,949	53
MARCHE	Domestic Ruminants (Cattle, sheep, goats)	200	Other Please Specify:SN	200	4
MARCHE	Domestic Ruminants (Cattle, sheep, goats)	123	PCR test	123	0
LAZIO	Domestic Ruminants (Cattle, sheep, goats)	7,611	Elisa test	7,611	19
LAZIO	Domestic Ruminants (Cattle, sheep, goats)	80	Other Please Specify:SN	80	5
LAZIO	Domestic Ruminants (Cattle, sheep, goats)	15	PCR test	15	6
ABRUZZO	Domestic Ruminants (Cattle, sheep, goats)	2,855	Elisa test	2,855	469

ABRUZZO	Domestic Ruminants (Cattle, sheep, goats)	4,537	PCR test	4,537	411
ABRUZZO	Domestic Ruminants (Cattle, sheep, goats)	1	PCR test	1	0
MOLISE	Domestic Ruminants (Cattle, sheep, goats)	1,464	Elisa test	1,464	143
MOLISE	Domestic Ruminants (Cattle, sheep, goats)	1,402	Other Please Specify:SN	1,402	69
CAMPANIA	Domestic Ruminants (Cattle, sheep, goats)	6,454	Elisa test	6,454	144
CAMPANIA	Domestic Ruminants (Cattle, sheep, goats)	752	Other Please Specify:SN	752	39
PUGLIA	Domestic Ruminants (Cattle, sheep, goats)	8,010	Elisa test	8,010	334
PUGLIA	Domestic Ruminants (Cattle, sheep, goats)	650	Other Please Specify:SN	650	24
PUGLIA	Domestic Ruminants (Cattle, sheep, goats)	2	PCR test	2	0
BASILICATA	Domestic Ruminants (Cattle, sheep, goats)	5,202	Elisa test	5,202	211
BASILICATA	Domestic Ruminants (Cattle, sheep, goats)	1,380	Other Please Specify:SN	1,380	29
CALABRIA	Domestic Ruminants (Cattle, sheep, goats)	7,499	Elisa test	7,499	2,581
CALABRIA	Domestic Ruminants (Cattle, sheep, goats)	13,886	Other Please Specify:SN	13,886	1,149
CALABRIA	Domestic Ruminants (Cattle, sheep, goats)	24	PCR test	24	0
SICILIA	Domestic Ruminants (Cattle, sheep, goats)	13,878	Elisa test	13,878	2,039
SICILIA	Domestic Ruminants (Cattle, sheep, goats)	2,841	Other Please Specify:SN	2,841	248
SICILIA	Domestic Ruminants (Cattle, sheep, goats)	912	PCR test	912	120
SARDEGNA	Domestic Ruminants (Cattle, sheep, goats)	11,552	Elisa test	11,552	336
SARDEGNA	Domestic Ruminants (Cattle, sheep, goats)	2,710	Other Please Specify:SN	2,710	287
SARDEGNA	Domestic Ruminants (Cattle, sheep, goats)	965	PCR test	965	255
<b>Total</b>		<b>198,029</b>		<b>198,029</b>	<b>9,513</b>
			<b>Methods of laboratory analysis</b>	<b>Total number of tests</b>	
			<b>Total - Elisa test</b>	163,634	
			<b>Total - Other Please Specify:SN</b>	26,622	
			<b>Total - PCR test</b>	7,773	

## COMMENT / ADDITIONAL CLARIFICATION

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