



EUROPEAN COMMISSION
HEALTH & CONSUMERS DIRECTORATE-GENERAL

Unit 04 - Veterinary Control Programmes

SANCO/12887/2010

***Programmes for the eradication, control and monitoring of certain
animal diseases and zoonoses***

Surveillance and Eradication programme of Bluetongue

Approved* for 2011 by Commission Decision 2010/712/EU

Latvia

* in accordance with Council Decision 2009/470/EC

ANNEX I

Standard requirements for the submission of national programmes for the eradication, control and monitoring of the animal diseases or zoonoses referred to in Article 1(a)¹

1. Identification of the programme

Member State: LATVIA

Disease(s)²: Bluetongue

Request of Community co-financing for³: vaccination activities

Reference of this document: BT monitoring and eradication programme for 2011 co-financed by the Community

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2. Historical data on the epidemiological evolution of the disease(s)⁴:

No epidemiological data is available. Bluetongue is never detected in Latvia.

3. Description of the submitted programme⁵:

Programme has been developed with the target to carry out monitoring of susceptible animals in all territory of Latvia during vector active period and to vaccinate all susceptible population (bovine, ovine and caprine animals) against bluetongue (most probably serotype 8, but also in case of other BT serotype) in 2011 in case of occurrence of the disease. Vaccination will be mandatory in all territory of Latvia. Programme will include monitoring measures within BT restricted area (in a case of outbreak) and outside restricted area (in a peace time). Serological monitoring with sentinel animals will be used as a tool for virus circulation control. Serological, virological and entomological monitoring also will be carried out in a case of outbreak.

¹ In the case of the second and subsequent years of a multi-annual programme that has already been approved by a Commission Decision, only section 1, section 7 and section 8 need to be completed.

² One document per disease is used unless all measures of the programme on the target population are used for the monitoring, control and eradication of different diseases.

³ Indicate the year(s) for which co-financing is requested.

⁴ A concise description is given with data on the target population (species, number of herds and animals present and under the programme), the main measures (testing, testing and slaughter, testing and killing, qualification of herds and animals, vaccination) and the main results (incidence, prevalence, qualification of herds and animals). The information is given for distinct periods if the measures were substantially modified. The information is documented by relevant summary epidemiological tables, graphs or maps.

⁵ A concise description of the programme is given with the main objective(s) (monitoring, control, eradication, qualification of herds and/or regions, reducing prevalence and incidence), the main measures (testing, testing and slaughter, testing and killing, qualification of herds and animals, vaccination), the target animal population and the area(s) of implementation and the definition of a positive case.

4. Measures of the submitted programme

4.1. *Summary of measures under the programme*

Duration of the programme: 2011

First year:

Control

Testing

Slaughter of animals tested positive

Killing of animals tested positive

Vaccination

Treatment

Disposal of products

Eradication, control or monitoring.

Last year:

Eradication

Testing

Slaughter of animals tested positive

Killing of animals tested positive

Extended slaughter or killing

Disposal of products

Other measures (*specify*):

4.2. *Organisation, supervision and role of all stakeholders⁶ involved in the programme: The Food and Veterinary Service (FVS) of the Republic of Latvia is a state administrative institution headed by the CVO and supervised by the Ministry of Agriculture.*

The FVS consists of the central body placed in Riga and territorial structural units (the local level)- 11 regional offices. The central body coordinates activities of the local level and ensure a unified implementation and surveillance of legislation. The local level carries out the official surveillance in accordance with the state surveillance programmes and reports to the central body. The State authorised veterinarians report to the respective local veterinary office.

Vaccination will be supervised by Veterinary Surveillance Department of FVS (Central authority).

4.3. *Description and demarcation of the geographical and administrative areas in which the programme is to be implemented⁷:*

Vaccination will apply to whole territory of Latvia.

⁶ Describe the authorities in charge of supervising and coordinating the departments responsible for implementing the programme and the different operators involved. Describe the responsibilities of all involved.

⁷ Describe the name and denomination, the administrative boundaries, and the surface of the administrative and geographical areas in which the programme is to be applied. Illustrate with maps.

4.4. Description of the measures of the programme⁸:

4.4.1. Notification of the disease: Bluetongue is immediately and compulsory notifiable disease in Latvia.

4.4.2. Target animals and animal population: bovine, ovine and caprine animals

4.4.3. Identification of animals and registration of holdings: regulation of Cabinet of Ministers No 712, 16 December, 2003 "Order of registration of animals, herds and holdings and identification of animals" determines procedures of individual identification of each bovine, ovine and caprine. This regulation is harmonised with Council Directives 92/100/EEC and 90/427/EEC.

Vaccinated bovine animals will be identified with the red stamp in bovine passport. Ovine and caprine animals will be marked with additional ear tag (in red colour).

To ensure common data registration system, Agricultural Data Centre (ADC) maintains central register of animals, herds and holdings. ADC is a state agency under the supervision of the Ministry of Agriculture.

4.4.4. Qualifications of animals and herds⁹:

4.4.5. Rules on the movement of animals:

4.4.6. Tests used and sampling schemes: all suspected animals will be tested to BT antibodies using ELISA test. Positive samples will be confirmed with PCR.

Monitoring in restricted areas: will be carried out using sentinel animals. Bovine animals will be used as sentinel animals and will be tested to BT antibodies before putting in herds. During vector activity season each sentinel animal will be sampled once per month and tested to antibodies using ELISA. Entomological monitoring of *Culicoides* will also be carried out in BT restricted zone during vector active season.

Monitoring outside restricted areas: serological monitoring will be carried out in all territory of Latvia. Animals for serological testing will be chosen randomly. About 10 000 animals (all susceptible species) will be tested during vector active period. Suspected animals and animals with positive serological result will be tested to virus presence using PCR test.

⁸ A comprehensive description needs to be provided of all measures unless reference can be made to Community legislation. The national legislation in which the measures are laid down is mentioned.

⁹ To mention only if applicable.

4.4.7. Vaccines used and vaccination schemes: as the highest risk for Latvia is BTV8, this programme is focused on vaccination against BTV8. In case of occurrence of disease caused by another BT serotype vaccination will be also carried out. Vaccine will be purchased by Food and Veterinary Service and distributed to territorial structural units of FVS. Vaccination will be provided by FVS authorized veterinarians. Inactivated vaccine will be used, in accordance with the producers instructions.

4.4.8. Information and assessment on bio-security measures management and infrastructure) in place in the holdings involved:

4.4.9. Measures in case of a positive result¹⁰:

4.4.10. Compensation scheme for owners of slaughtered and killed animals:

Regulation of Cabinet of Ministers No 177, 15 March 2005, "Procedure according to which compensations are given or owner of animals receive compensations for losses which have arise due to eradication of epizootics or animal infectious diseases" determines procedure according to which compensations are given or owner of animals receive compensations for losses which have arisen due to eradication or outbreaks of animal infectious diseases, which are under state supervision.

4.4.11. Control on the implementation of the programme and reporting:

5. **Benefits of the programme**¹¹: Control and limit of Bluetongue spreading in Republic of Latvia.

¹⁰ A short description is provided of the measures as regards positive animals (slaughter, destination of carcasses, use or treatment of animal products, the destruction of all products which could transmit the disease or the treatment of such products to avoid any possible contamination, a procedure for the disinfection of infected holdings, the therapeutic or preventive treatment chosen, a procedure for the restocking with healthy animals of holdings which have been depopulated by slaughter and the creation of a surveillance zone around the infected holding,).

¹¹ A description is provided of the benefits for farmers and society in general.

6. Data on the epidemiological evolution during the last five years¹²

6.1. Evolution of the disease¹³

6.1.1. Data on herds^(a) (one table per year and per disease/species)

Year:

Situation on date:

Disease^(b):

Animal species:

Region ^(e)	Total number of herds ^(d)	Total number of herds under the programme	Number of herds checked ^(e)	Number of positive herds ^(f)	Number of new positive herds ^(g)	Number of herds depopulated	% positive herds depopulated	INDICATORS		
								% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd incidence
1	2	3	4	5	6	7	$8 = (7/5) \times 100$	$9 = (4/3) \times 100$	$10 = (5/4) \times 100$	$11 = (6/4) \times 100$
Total										

(a) Herds or flocks or holdings as appropriate.

(b) Disease and animal species if necessary.

(c) Region as defined in the eradication programme of the Member State.

(d) Total number of herds existing in the region including eligible herds and non-eligible herds for the programme.

(e) Check means to perform a herd level test under the programme for the respective disease with the purpose of maintaining or upgrading, the health status of the herd. In this column a herd must not be counted twice even if has been checked more than once.

(f) Herds with at least one positive animal during the period independent of the number of times the herd has been checked.

(g) Herds which status in the previous period was *Unknown, Not free-negative, Free, Officially Free or Suspended* and have at least one animal tested positive in this period.

¹²

The data on the evolution of the disease are provided according to the tables below where appropriate.

¹³

No data to provide in case of rabies.

6.1.2. Data on animals (one table per year and per disease/species)

Year:

Situation on date:

Disease^(a):

Animal species:

Region ^(b)	Total number of animals ^(c)	Number of animals ^(d) to be tested under the programme	Number of animals tested	Number of animals tested individually ^(e)	Number of positive animals	Slaughtering		INDICATORS	
						Number of animals with positive result slaughtered or culled	Total number of animals slaughtered ^(f)	% coverage at animal level	% positive animals Animal prevalence
1	2	3	4	5	6	7	8	$9 = (4/3) \times 100$	$10 = (6/4) \times 100$
Total									

- (a) Disease and animal species if necessary.
- (b) Region as defined in the approved eradication programme of the Member State.
- (c) Total number of animals existing in the region including eligible herds and non-eligible herds for the programme.
- (d) Includes animals tested individually or under bulk level scheme.
- (e) Include only animals tested individually, do not include animals tested by bulk level samples (for instance: milk bulk tank tests).
- (f) Include all positive animal slaughtered and also the negative animals slaughtered under the programme.

6.2. Stratified data on surveillance and laboratory tests

6.2.1. Stratified data on surveillance and laboratory tests (one table per year and per disease/species)

Year: 2009

Disease^(a): Bluetongue

Animal species/category: bovine, ovine, caprine

Description of the used serological tests: Ab ELISA

Description of the used microbiological or virological tests: -

Description of the other used tests: rtPCR

Region ^(b)	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested ^(c)	Number of positive samples ^(d)	Number of samples tested ^(c)	Number of positive samples ^(d)	Number of samples tested ^(c)	Number of positive samples ^(d)
Latvia (bovine animals)	9219	0	-	-	0	0
Latvia (ovine animals)	1412	0	-	-	109	0
Latvia (caprine animals)	239	0	-	-	0	0
Total						

(a) Disease and animal species if necessary.

(b) Region as defined in the approved eradication programme of the Member State.

(c) Number of samples tested.

(d) Number of positive samples.

6.3. Data on infection (one table per year and per disease/species)

Year: _____ **Disease^(a):** _____ **Animal species:** _____

Region ^(b)	Number of herds infected ^(c)	Number of animals infected
Total		

- (a) Disease and animal species if necessary.
- (b) Region as defined in the eradication programme of the Member State.
- (c) Herds or flocks or holdings as appropriate.

6.4. Data on the status of herds at the end of each year¹⁴

Year:

Disease^(a):

Animal species:

Region ^(b)	Status of herds and animals under the programme ^(e)													
	Total number of herds and animals under the programme		Unknown ^(d)		Not free or not officially free from disease Last check positive ^(c)		Last check negative ^(f)		Free or officially free from disease status suspended ^(g)		Free from disease ^(h)		Officially free from disease ⁽ⁱ⁾	
	Herds	Animals ^(f)	Herds	Animals ^(f)	Herds	Animals ^(f)	Herds	Animals ^(f)						
Total														

(a) Disease and species if necessary

(b) Region as defined in the approved eradication programme of the Member State

(c) At the end of the year

(d) Unknown: No previous checking results available

(e) Not free and last check positive: Herd checked with at least one positive result in the latest check

(f) Not free and last check negative: Herd checked with negative results in the latest check but not being *Free* or *Officially Free*

(g) Suspended as defined in Community or national legislation for the respective disease at the end of the reporting period.

(h) Free herd as defined in Community or national legislation for the respective disease.

(i) Officially free herd as defined in Community or national legislation for the respective disease.

(j) Include animals under the programme in the herds with the referred status (left column).

¹⁴

Only data to provide for bovine tuberculosis, bovine brucellosis, ovine and caprine brucellosis (B. melitensis), enzootic bovine leucosis (EBL) and Aujeszky's disease.

6.5. Data on vaccination or treatment programmes ¹⁵

Year:

Disease^(a):

Animal species:

Description of the used vaccination, therapeutic or other scheme:

Region ^(b)	Total number of herds ^(c)	Total number of animals	Information on vaccination or treatment programme					
			Number of herds ^(c) in vaccination or treatment programme	Number of herds ^(c) vaccinated or treated	Number of animals vaccinated or treated	Number of doses of vaccine or treatment administered	Number of adults ^(d) vaccinated	Number of young ^(d) animals vaccinated
Total								

(a) Disease and species if necessary

(b) Region as defined in the approved eradication programme of the Member State

(c) Herds or flocks or holdings as appropriate

(d) Only for Bovine brucellosis, Ovine and Caprine brucellosis (*B. melitensis*) as defined in the programme

¹⁵

Data to provide only if vaccination has been carried out.

6.6. Data on wildlife¹⁶

6.6.1. Estimation of wildlife population

Year:

Method of estimation^(a):

Regions ^(b)	Estimation of the population of the concerned wild species		
	Species:	Species:	Species:
Total			

(a) The hunting bag is considered to be the standard method of estimation. If other method is used, explain
 (b) Region as defined in the approved eradication programme of the Member State

¹⁶ Data only to provide in case the programme comprises measures as regards wildlife or if the data are epidemiologically relevant for the disease.

6.6.2. *Monitoring of wildlife (one table per year and per disease/species)*

Year:

Disease^(a):

Animal species:

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests:

Region ^(b)	Microbiological or virological tests		Serological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
	0	0	-	-	0	0
Total						

(a) Disease and species, if necessary

(b) Region as defined in the approved eradication programme of the Member State

6.6.3. *Data on vaccination or treatment of wildlife*

Year: Disease^(a): Animal species:

Description of the used vaccination, therapeutic or other scheme:

Region ^(b)	Square km	Vaccination or treatment programme		
		Number of doses of vaccine or treatment to be administered	Number of campaigns	Total number of doses of vaccine or treatment administered
Total				

(a) Disease and species if necessary
 (b) Region as defined in the approved eradication programme of the Member State

7. Targets

7.1. Targets related to testing (one table for each year of implementation)

7.1.1. Targets on diagnostic tests

Disease^(a):

Animal species:

Region ^(b)	Type of the test ^(c)	Target population ^(d)	Type of sample ^(e)	Objective ^(f)	Number of planned tests
LATVIA	Elisa	Bovine, ovine and caprine animals	Blood	Monitoring outside restricted zone	10 000
LATVIA	rtPCR	Bovine, ovine and caprine animals (suspected animals)	Blood	Monitoring outside restricted zone	100
Total					10 100

(a) Disease and species if necessary

(b) Region as defined in the approved eradication programme of the Member State

(c) Description of the test (for instance SN-test, AB-Elisa, RBT, ...)

(d) Specification of the targeted species and the categories of targeted animals (for instance sex, age, breeding animal, slaughter animal, ...).

(e) Description of the sample (for instance blood, serum, milk, ...)

(f) Description of the objective (for instance qualification, surveillance, confirmation of suspected cases, monitoring of campaigns, seroconversion, control on deleted vaccines, testing of vaccine, control of vaccination, ...)

7.1.2. Targets on testing herds and animals¹⁷

7.1.2.1 Targets on the testing of herds^(a)

Disease^(b):

Animal species:

Region ^(c)	Total number of herds ^(d)	Total number of herds under the programme	Number of herds expected to be checked ^(e)	Number of expected positive herds ^(f)	Number of expected new positive herds ^(g)	Number of herds expected to be depopulated	% positive herds expected to be depopulated	TARGET INDICATORS		
								Expected % herd coverage	% positive herds Expected period herd prevalence	% new positive herds Expected herd incidence
1	2	3	4	5	6	7	$8 = (7/5) \times 100$	$9 = (4/3) \times 100$	$10 = (5/4) \times 100$	$11 = (6/4) \times 100$
Total										

(a) Herds or flocks, or holdings as appropriate.

(b) Disease and animal species if necessary.

(c) Region as defined in the approved eradication programme of the Member State.

(d) Total number of herds existing in the region including eligible herds and non-eligible herds for the programme.

(e) Check means to perform a herd level test under the programme for the respective disease with the purpose of maintaining, upgrading, etc., the health status of the herd. In this column a herd must not be counted twice even if it has been checked more than once.

(f) Herds with at least one positive animal during the period independent of the number of times the herd has been checked.

(g) Herds which status in the previous period was *Unknown, Not free-negative, Free, Officially Free or Suspended* and have at least one positive animal in this period.

¹⁷ Data not to provide in case of rabies.

7.1.2.2. Targets on the testing of animals

Disease^(a):

Animal species:

Region ^(b)	Total number of animals ^(c)	Number of animals ^(c) under the programme	Number of animals ^(d) expected to be tested	Number of animals to be tested individually ^(e)	Number of expected positive animals	Slaughtering		TARGET INDICATORS	
						Number of animals with positive result expected to be slaughtered or culled	Total number of animals expected to be slaughtered ^(f)	Expected % coverage at animal level	% positive animals (Expected animal prevalence)
1	2	3	4	5	6	7	8	$9 = (4/3) \times 100$	$10 = (6/4) \times 100$
Total									

(a) Disease and animal species if necessary.

(b) Region as defined in the approved eradication programme of the Member State.

(c) Total number of animals existing in the region including eligible herds and non-eligible herds for the programme.

(d) Includes animals tested individually or under bulk level scheme.

(e) Include only animals tested individually, do not include animals tested by bulk level samples (for instance milk bulk tank tests).

(f) Include all positive animals slaughtered and also the negative animals slaughtered under the programme.

7.2. Targets on qualification of herds and animals¹⁸ (one table for each year of implementation)

Disease^(a):

Animal species:

Region ^(b)	Total number of herds and animals under the programme		Targets on the status of herds and animals under the programme ^(c)											
	Herds	Animals ^(d)	Expected not free or not officially free from disease		Expected free or officially free from disease status suspended ^(e)		Expected free from disease ^(h)		Expected officially free from disease ⁽ⁱ⁾					
			Last check positive ^(e)	Last check negative ^(f)	Herds	Animals ^(d)	Herds	Animals ^(d)	Herds	Animals ^(d)	Herds	Animals ^(d)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total														

(a) Disease and species if necessary

(b) Region as defined in the approved eradication programme of the Member State

(c) At the end of the year

(d) Unknown: No previous checking results available

(e) Not free and last check positive: Herd checked with at least one positive result in the latest check

(f) Not free and last check negative: Herd checked with negative results in the latest check but not being *Free* or *Officially Free*

(g) Suspended as defined for the respective disease where appropriate in Community or national legislation where appropriate or according national legislation

(h) Free herd as defined for the respective disease where appropriate in Community or national legislation where appropriate or according national legislation

(i) Officially free herd as defined for the respective disease where appropriate in Community or national legislation where appropriate or according national legislation

(j) Include animals under the programme in the herds with the referred status (left column)

¹⁸

Data to provide only for bovine tuberculosis, bovine brucellosis, ovine and caprine brucellosis (B. melitensis), enzootic bovine leucosis (EBL) and Aujeszky's disease.

7.3. Targets on vaccination or treatment (one table for each year of implementation)

7.3.1. Targets on vaccination or treatment¹⁹

Disease ^(a) : <u>Bluetongue</u>	Animal species: <u>bovine, caprine, ovine</u>	Total number of herds ^(c) in vaccination or treatment programme	Total number of animals in vaccination or treatment programme	Targets on vaccination or treatment programme					
				Number of herds ^(c) in vaccination or treatment programme	Number of herds ^(c) expected to be vaccinated or treated	Number of animals expected to be vaccinated or treated	Number of doses of vaccine or treatment expected to be administered	Number of adults ^(d) expected to be vaccinated	Number of young ^(d) animals expected to be vaccinated
Region ^(b) LATVIA		46 960	462 118	46 960	462 118	462 118	840 331	262 118	200 000
2011									
Total									

(a) Disease and species if necessary

(b) Region as defined in the approved eradication programme of the Member State

(c) Herds or flocks or holdings as appropriate

(d) Only for Bovine brucellosis and Ovine, Caprine brucellosis (*B. melitensis*) as defined in the programme

¹⁹

Data to provide only if appropriate.

7.3.2. *Targets on vaccination or treatment²⁰ of wildlife*

Disease^(a):

Animal species:

Region ^(b)	Square km	Targets on the vaccination or treatment programme		
		Number of doses of vaccine or treatments expected to be administered in the campaign	Expected number of campaigns	Total number of doses of vaccine or treatment expected to be administered
Total				

(a) Disease and species if necessary

(b) Region as defined in the approved eradication programme of the Member State

²⁰

Data to provide only if appropriate.

8. Detailed analysis of the cost of the programme (one table per year of implementation)

<i>Costs related to</i>	<i>Specification</i>	<i>Number of units</i>	<i>Unitary cost in €</i>	<i>Total amount in €</i>	<i>Community funding requested (yes/no)</i>
<i>1. Testing</i>					
<i>1.1. Cost of the analysis</i>					
	<i>Test: rt-PCR</i>	100	54,74	5 474	Yes
	<i>Test: AB-Elisa</i>	10 000	3,94	39400,00	Yes
	<i>Entomological monitoring (Microscopy)</i>	500	50	25000	Yes
<i>1.2. Cost of sampling</i>					
<i>1.3. Other costs</i>					
<i>2. Vaccination or treatment</i>					
<i>2.1. Purchase of vaccine/treatment</i>					
	Bluetongue inactivated vaccine	840 331	1,3	1 092 430,30	Yes
<i>2.2. Distribution costs</i>					

<i>2.3. Administering costs</i>	Vaccine administration	840 331	0,7	588 231,70	Yes
<i>2.4. Control costs</i>					
<u>3. Slaughter and destruction</u>					
<i>3.1. Compensation of animals</i>					
<i>3.2. Transport costs</i>					
<i>3.3. Destruction costs</i>					
<i>3.4. Loss in case of slaughtering</i>					
<i>3.5. Costs from treatment of products (milk, eggs, hatching eggs, etc.)</i>					
<u>4. Cleaning and disinfection</u>					

<u>5. Salaries (staff contracted for the programme only)</u>	Visit (veterinarian) on farm	104 811	10	1 048 110	No
<u>6. Consumables and specific equipment</u>					
<u>7. Other costs</u>					
<u>TOTAL</u>				2 798 646	Yes