



EUROPEAN COMMISSION
HEALTH & CONSUMERS DIRECTORATE-GENERAL

Unit 04 - Veterinary Control Programmes

SANCO/10254/2009

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

Surveillance and Eradication programme of Bluetongue

Approved* for 2010 by Commission Decision 2009/883/EC

Finland

* 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: Finland

Disease(s)²: Bluetongue

Request of Community co-financing for³:

Reference of this document: SANCO/10522/2007 Rev. 2

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

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 eradication, 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.

Bluetongue has never been detected in Finland, or in the neighbouring country Estonia. During the years 2007 and 2008 BT has been surveyed in random sample basis. Bluetongue surveillance according to the surveillance plan submitted to the commission on 19th December 2008 was started 1st January 2009.

During the year 2008 the risk for Finland of getting bluetongue changed, while BTV serotype 8 has been detected in the neighbouring country Sweden in September 2008. Sweden also started vaccination campaign against BTV 8 during autumn 2008. A survey of *Culicoides* species in Finland was performed 2007 (Huldén et al. 2008) and it showed that species capable of being bluetongue vector exist in Finland.

3. Description of the submitted programme⁵:

3.2. A description and demarcation of the geographical and administrative area, including maps, in which the plan is to be applied.

The vaccination area is going to cover the whole country except the most northern areas Pohjois-Pohjanmaa, Kainuu and Lappl.

Enforced surveillance is applied to the coastal areas in the south and south-west. If bluetongue would spread into Finland by airborne route the first places to be affected would most probably be the coastal areas towards Sweden and probably towards Estonia and Russia.

The rest of Finland, except the most Northern areas Pohjois-Pohjanmaa, Kainuu and Lappl, are taken into the basic surveillance program.

3.3. The likely duration of the plan, and the objective to be attained by the completion date of the plan.

The vaccination plan will be started, if bluetongue cases are detected in Finland, or there are cases close to Finland with immediate danger of BT spreading into Finland. The duration of the plan will be dependent of bluetongue disease evolution in Finland. The minimum duration of the plan will be 3 years.

The surveillance plan was started 1.1.2009 and the surveillance according to this application is direct continuation of the program. The duration of the plan will be dependent of bluetongue disease evolution in Finland and in neighboring countries. In any case the duration of the surveillance plan will be several years.

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.

3.4. Description of all the measures to be applied including: i.e. a description of the system to monitor vaccinated animals' antibodies to be in place

The measures undertaken to apply a vaccination and surveillance strategy will be based on the measures described in the directive laying down specific provisions for the control and eradication of bluetongue (2000/75/EC) and Commission regulation (EC) 1266/2007 and Commission regulation (EC) No 1108/2008 amending Regulation (EC) No 1266/2007 as regards the minimum requirements for bluetongue monitoring and surveillance programs.

3.5. Identification and designation of central authority charged with supervising and coordinating the departments responsible for implementing the plan.

The Finnish Food Safety Authority (Evira) will be in charge of supervising and coordinating the implementation of the plan.

4. Measures of the submitted programme

4.1. *Summary of measures under the programme*

Duration of the programme:

First year:

Control

Testing

Slaughter of animals tested positive

Killing of animals tested positive^a

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):

^a The first animals tested positive are going to be killed, if the case is well demarcated.

4.2. *Organisation, supervision and role of all stakeholders^b involved in the programme:*

Finnish Food Safety Authority Evira, Official Veterinarians; under supervision of the Ministry of Agriculture and Forestry

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

The whole Finland except the most Northern areas Pohjois-Pohjanmaa, Kainuu and Lappi.

^a 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.

^c 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: ADNS, BT-Net

4.4.2. Target animals and animal population: Cattle, sheep and goats.

4.4.3. Identification of animals and registration of holdings: The animals are ear tagged and registered.

4.4.4. Qualifications of animals and herds⁹: All cattle, sheep and goats in the above mentioned area are taken into the program.

4.4.5. Rules on the movement of animals: Directive 2000/75/EC and Regulation (EC) No 1266/2007.

4.4.6. Tests used and sampling schemes: AD-Elisa for bulk milk and serum samples, PCR to detect the virus. All dairy herds and beef cattle herds at the enforced surveillance area are sampled. In the basic surveillance area 10% of the dairy herds are sampled, chosen by random sampling.

4.4.7. Vaccines used and vaccination schemes: inactivated serotype 3 vaccine. All cattle, sheep and goats vaccinated under official veterinarian supervision. Vaccination used only if bluetongue enters to Finland or it spreads more widely in neighbouring country and the spread into Finland seems imminent. The surveillance plan is carried out in any case.

4.4.8. Information and assessment on bio-security measures (management and infrastructure) in place in the holdings involved: The information is gained through the inspection of the local official veterinarian. Biosecurity guidelines for farms are presented in the national contingency plan for bluetongue. Special attention is taken for hygiene and avoiding wet areas which could promote *Culicoides* hatching close to the animal premises.

4.4.9. Measures in case of a positive result¹⁰: In the first BT case stamping out will possibly be used. If the disease appears to be more wide spread the measures are taken according to the Directive 2000/75/EC and Regulation (EC) No 1266/2007. The vaccination campaign will be started if there are BT cases in Finland.

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.

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.).

- 4.4.10. Compensation scheme for owners of slaughtered and killed animals: Where animals are killed and destroyed based on orders of Evira they are fully compensated for their market value as assessed by an independent expert.
- 4.4.11. Control on the implementation of the programme and reporting: Evira collects the data about the implementation of the programme. The ministry of Agriculture and Forestry approves it and reports to the Commission.

5. Benefits of the programme¹²:

There is a danger that bluetongue would spread into Finland. Estimates about the morbidity and mortality differ, but large financial losses for the producers are to be expected. The aim of the programme is to reduce losses caused by bluetongue to the producers. The surveillance programme makes possible to notice as soon as possible, if bluetongue is spreading into Finland. If bluetongue does not spread to Finland the surveillance programme shows freedom of the disease for safer trade purposes.

¹² 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: 2006

Situation on date: 31.12.2006

Disease^(b): Bluetongue

Animal species: beef cattle

Region ^(c)	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	$8 = (7/5) \times 100$	$9 = (4/3) \times 100$	$10 = (3/4) \times 100$	$11 = (6/4) \times 100$
Etelä-Suomi, Länsi-Suomi, Ml-Suomi, Ahvenanmaa	1462	1263	78	0	0	0	0	6	0	0
Total	1462	1263	78	0	0	0	0	6	0	0

(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.

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

Year: 2007

Situation on date: 31.12.2007

Disease^(b): Blisters

Animal species: Beef cattle

Region ^(c)	Total number of herds ^(a)	Total number of herds under the programme	Number of herds checked ^(e)	Number of positive herds ^(d)	Number of new positive herds ^(d)	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	$8 = (7/5) \times 100$	$9 = (4/3) \times 100$	$10 = (5/4) \times 100$	$11 = (6/4) \times 100$
Etelä-Suomi, Länsi-Suomi, Itä-Suomi, Ahvenanmaa	1462	1263	106	0	0	0	0	8,4	0	0
Total	1462	1263	106	0	0	0	0	8,4	0	0

(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.

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

Year: 2008

Situation on date: 30.6.2008

Disease^(b): *Bluetongue*

Animal species: *Beef cattle*

Region ^(c)	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	$8 = (7/5) \times 100$	$9 = (4/3) \times 100$	$10 = (5/4) \times 100$	$11 = (6/4) \times 100$
Etelä-Suomi, Länsi-Suomi, Itä-Suomi, Ahvenanmaa	1462	1263	48	0	0	0	0	to be completed	-	-
Total	1462	1263	48	0	0	0	0	to be completed	-	-

(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.

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

Year: 2008

Situation on date: 30.6.2008

Disease^(b): Bluetongue

Animal species: Cattle

Region ^(c)	Total number of herds ^(d)	Total number of herds under the programme	Number of herds checked ^(e)	Number of positive herds ^(d)	Number of new positive herds ^(e)	Number of herds depopulated	% positive herds depopulated	INDICATORS		
								% herd coverage	% positive herds Period herd prevalence	% new positive herds Herd incidence
J	2	3	4	5	6	7	$8 = (7/5) \times 100$	$9 = (4/3) \times 100$	$10 = (5/4) \times 100$	$11 = (6/4) \times 100$
Import batches	18	18	5	0	0	0	to be completed	to be completed	-	-
Total	18	18	5	0	0	0	to be completed	to be completed	-	-

(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.

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

Year: 2008

Situation on date: 30.6.2008

Disease^(a): Bluetongue

Animal species: White tailed deer, wild

Region ^(b)	Total number of animals ^(c)	Number of animals ^(d) to be tested under the programme	Number of animals ^(d) 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	$9 = \frac{7}{8} \times 100$	$10 = \frac{6}{8} \times 100$
Whole country	40 000	111	111	111	0	0	0	0,2	0
Total	40 000	111	111	111	0	0	0	0,2	0

(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: 2006

Disease^(a): Bluetongue

Animal species/category: Beef cattle

Description of the used serological tests: Commercial ELISA kit for BTV antibodies, 10 samples pooled together

Description of the used microbiological or virological tests:-

Description of the other used tests:-

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 ^(e)	Number of positive samples ^(d)
Etelä-Suomi, Länsi-Suomi, Itä-Suomi, Ahvenanmaa	548	0				
Total	548	0				

(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.

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

Year: 2007

Disease^(a): Bluetongue

Animal species/category: Beef cattle

Description of the used serological tests: Commercial ELISA kit for BTV antibodies, 10 samples pooled together

Description of the used microbiological or virological tests: -

Description of the other used tests:-

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 ^(e)	Number of positive samples ^(d)
Eteli-Suomi, Lohi-Suomi, Iiti-Suomi, Ahvenanmaa	992	0				
Total	992	0				

(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.

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

Year: 2008 (-30.6.)

Disease^(a): Bluetongue

Animal species/category: Beef cattle

Description of the used serological tests: Commercial ELISA kit for BTV antibodies, 10 samples pooled together

Description of the used microbiological or virological tests: -

Description of the other used tests: -

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)
Etelä-Suomi, Länsi-Suomi, Itä-Suomi, Ahvenanmaa	329	0				
Total	329	0				

(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.

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

Year: 2008

Disease^(a): Bluetongue

Animal species/category: Cattle, imported

Description of the used serological tests: Commercial ELISA kit for BTV antibodies. 10 samples pooled together

Description of the used microbiological or virological tests: -

Description of the other used tests:-

Region ^(b)	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested ^(c)	Number of positive samples ^(d)	Number of samples tested ^(e)	Number of positive samples ^(a)	Number of samples tested ^(e)	Number of positive samples ^(d)
Whole country, imports	143	0				
Total	143	0				

(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)
Bluetongue has never been detected in Finland.

6.5. Data on vaccination or treatment programmes¹⁴
No vaccination against bluetongue has been carried out in Finland so far.

¹⁴ Data to provide only if vaccination has been carried out.

6.6. Data

on

wildlife¹⁵

6.6.1. Estimation of wildlife population: wild cervids

Year: 2007

Method of estimation^(a): hunting bag

Regions ^(b)	Estimation of the population of the concerned wild species			
	Species: elk	Species: white tailed deer	Species: roe deer	Species:
Whole country	100 000	40 000	33 000	
Aland			15 000*	
Total	100 000	40 000	33 000	

* half of the roe deer population is situated on a small area of islands

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

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

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Virhe. Tuntematon asiakirjan ominaisuuden nimi.

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

Year: 2008

Disease^(b): Bluetongue

Animal species: White tailed deer

Description of the used serological tests: Commercial ELISA kit for BTV antibodies, 10 samples pooled together
Description of the used microbiological or virological tests:-

Description of the other used tests:-

Region ^(a)	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
Whole country			(11)	0		
Total			(11)	0		

(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): bluetongue

Animal species: cattle

Region ^(b)	Type of the test ^(c)	Target population ^(d)	Type of sample ^(e)	Objective ^(f)	Number of planned tests
A. Area of enforced surveillance					
Ahvenanmaa	AB-Elisa	dairy cows 1710 in 57 herds; beef cows 1861 in 40 herds	bulk milk; serum	surveillance	6x37; 400
Yusthais-Suomi	AB-Elisa	dairy cows 10920 in 334 herds; beef cows 3626 in 90 herds	bulk milk; serum	surveillance	6x334; 800
Satakunta, southern part: Luvia, Naakkila, Haja-Ahja, Kokemäki, Eurajoki, Kauppinen, Rauma, Lappi, Eura, Koylö, Sastya, Huittinen, Vammala	AB-Elisa	milking cows 3060 in 102 herds; beef cows 588 in 45 herds	bulk milk; serum	surveillance	6x102; 100
Uusimaa	AB-Elisa	dairy cows 8700 in 290 herds; beef cows 1041 in 25 herds	bulk milk; serum	surveillance	6x290; 125
Häme, 2 municipalities: Orimattila, Anttjärvi	AB-Elisa	dairy cows 2520 in 84 herds; beef cows 1289 in 50 herds	bulk milk; serum	surveillance	6x84; 50
South-Eastern Finland: Anjalankoski, Etelä-Savo, Viro, Hämeenlinna, Kanta-Häme, Pyhäjoki, Miehikkälä, Lappeenranta, Laukaa, Ylämaa	AD-Elisa	dairy cows 8550 in 285 herds; beef cows 1013 in 25 herds	bulk milk; serum	surveillance	6x285; 125
TOTAL A. ENFORCED SURVEILLANCE					
B. Area of basic surveillance					
6912 bulk milk samples; 1600 serum samples					

Southern part of Pohjois-Pohjanmaa, Kainuu, Länkinen, Rovaniemi, Peurunka, Pyhäjoki, Oulainen, Kuusamaki, Alavieska, Ylivieska, Nivala, Haapajärvi, Pyhäjärvi, Sievä, Reisjärvi	AB-Eliisa	dairy cows 36 090 in 1203 herds	bulk milk	surveillance	
Pohjanmaa	AB-Eliisa	dairy cows 36 090 in 1203 herds	bulk milk	surveillance	
Etelä-pohjanmaa	AB-Eliisa	dairy cows 46350 in 1581 herds	bulk milk	surveillance	
Keski-Suomi	AB-Eliisa	dairy cows 37170 in 1239 herds	bulk milk	surveillance	
Satakunta, western part: Pori, Oulvila, Luvia, Naantali, Pori, Kankaanpää, Jämijärvi, Monijoki, Karvia, Siikainen, Merikivi	AB-Eliisa	dairy cows 11370 in 379 herds	bulk milk	surveillance	
Pirkanmaa	AB-Eliisa	dairy cows 24870 in 829 herds	bulk milk	surveillance	
Pohjois-Savo	AB-Eliisa	dairy cows 55170 in 1839 herds	bulk milk	surveillance	
Etelä-Savo	AB-Eliisa	dairy cows 27450 in 913 herds	bulk milk	surveillance	
None * County Kanta-Häme and County Pirkanmaa except the municipalities Orimattila and Antturi	AB-Eliisa	dairy cows 30460 in 682 herds	bulk milk	surveillance	
South-eastern Finland, northern part of the county Kymenlaakso: Vaivastie, Kouvolan, Kouvola, Ilmi, Jani, County Etelä-Kuopio except Luumäki, Lappeenranta, Ylämaa	AB-Eliisa	dairy cows 12210 in 407 herds	bulk milk	surveillance	
Total B. basic surveillance					2 x 987=1974 bulk milk samples
Total					10486

- (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, ...)

7.1.1. Targets on diagnostic tests

Disease^(a): **bluetongue** Animal species: **cattle**

Region ^(b)	Type of the test ^(c)	Target population ^(d)	Type of sample ^(e)	Objective ^(f)	Number of planned tests
Whole country	PCR	Imported cattle	serum	surveillance	50
Total					50

- (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 animals¹⁶
 7.1.2.1 Targets on the testing of herds^(a)

Disease^(b): **Brucellosis** Animal species: **Dairy cattle**

Region ^(a)	Total number of herds ^(b)	Total number of herds under the programme	Number of herds expected to be checked ^(a)	Number of expected positive herds ^(a)	Number of expected new positive herds ^(a)	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	$8 = (7/5) \times 100$	$9 = (4/3) \times 100$	$10 = (5/4) \times 100$	$11 = (6/4) \times 100$
A. area of enforced surveillance										
Ahvenanmaa	57	57	57	0	0	0	0	100	0	0
Varsinais-Suomi	334	334	334	0	0	0	0	100	0	0
Satakunta, southern part: Luvia, Naakkila, Honkajoki, Karkkila, Eura, Loppo, Eura, Köyliö, Sakyla, Heilinen, Vaivajärvi	102	102	102	0	0	0	0	100	0	0
Uusimaa	290	290	290	0	0	0	0	100	0	0
Itäme, 2 municipalities	84	84	84	0	0	0	0	100	0	0
South-Eastern Finland: Anjalankoski, Etelä-Savo, Varkaus, Kouvola, Pyhäjoki, Miehikkälä, Lappeenranta, Luusanki, Ylämaa	285	285	285	0	0	0	0	100	0	0

¹⁶ Data not to provide in case of rabies.

B. Area of basic surveillance														
Southern part of Pohjois-Pohjanmaa: Oulunsalo, Kortesalo, Lemmijoki, Luinaka, Siikajoki, Raunisto, Kestli, Ranne, Vihamäki, Pulkkiha, Pippola, Pyhäjärvi, Merviärvi, Oulainen, Hauho, Keisjärvi, Kalviainen, Kalliojärvi, Alavieska, Ylivieska, Niemi, Hanapajarvi, Sievi, Pyhäjärvi, Reisjärvi	1203													0
Pohjanmaa	1200	120	0	0	0	0	0	0	0	0	0	0	0	0
Etela-pohjanmaa	1551	155	0	0	0	0	0	0	0	0	0	0	0	0
Keskii-Suomi	1239	124	0	0	0	0	0	0	0	0	0	0	0	0
Satakunta, northern part: Pori, Uusikaupunki, Luvia, Naantali, Pori, Merikarvia, Naantali, Kouvola, Jyväskylä, Järvi-Puoli, Mänttä-Vilhelmi, Kouvola, Nivala, Miehikkälä	379	38	0	0	0	0	0	0	0	0	0	0	0	0
Pirkanmaa	829	83	0	0	0	0	0	0	0	0	0	0	0	0
Pohjois-Savo	1893	189	0	0	0	0	0	0	0	0	0	0	0	0
Etela-Savo	915	92	0	0	0	0	0	0	0	0	0	0	0	0
North Savo: County of Uusimaa, Etela-Savo, North Savo, Central Savo, South Savo, Kanta-Häme, Päijät-Häme, the municipalities of Orimattila and Anttila	682	68	0	0	0	0	0	0	0	0	0	0	0	0

Southeastern Finland, northern part of the county of Southern Ostrobothnia: Valkenkoski, Kouvola, Kuusankoski, Iitti, Jaala, County of Etelä- Karjala except Luvonki, Lappeenranta, Tuusula	407	407	41	0	0	0	0	10	0	0	0
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- (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.

7.1.2. Targets on testing herds and animals^(a)
 7.1.2.1 Targets on the testing of herds^(a)

Animal species: Beef cattle

Disease ^(b) , Bluetongue	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) x 100	9 = (4/3) x 100	10 = (5/4) x 100	11 = (6/4) x 100
A. area of enforced surveillance											
	Ahvenmaa	40	40	40	0	0	0	0	100	0	0
	Varsinais-Suomi	90	90	90	0	0	0	0	100	0	0
	Spälska, southern part: Luvia, Nokkila, Ilajivalka, Kakemäki, Eurojoki, Klubainen, Reuna, Lappi, Eura, Kyyli, Siikyla, Iluainen, Vampula	15	15	15	0	0	0	0	100	0	0
	Uusimaa	25	25	25	0	0	0	0	100	0	0
	Etelä, municipalities: Orimattila, Ardjarvi	50	50	50	0	0	0	0	100	0	0

17 Data not to provide in case of rabies.

South-Eastern Finland: Ajoankoski, Etelä-Suomi, Virolahti, Hämeenlinna, Kosken Pyhäntä, Miehikkälä, Lappeenranta, Luumäki, Ylämaa,	25	25	25	0	0	0	0	0	0	0	0	0	0
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- (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 purpose of maintaining, upgrading, etc., the health status of the flock.
- (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.

7.1.2.2. Targets on the testing of animals

Disease^(a): bluetongue Animal species: cattle, random sampling imported cattle

Region ^(b)	Total number of animals ^(c)	Number of animals ^(d) 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	$9 = (4/3) \times 100$	$10 = (6/4) \times 100$
Whole country	300	300	50	50	0	0	0	17	0
Total	300	300	50	50	0	0	0	17	0

(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). Bluetongue has never been detected in Finland.

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): bluetongue Animal species: cattle

Region ^(b)	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) 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 ^(e) animals expected to be vaccinated
Uusimaa		25235		25235	50470		
Varsinais-Suomi		35298		35298	70596		
Satakunta		31122		31122	62244		
Uusimaa		50079		50079	100158		
Pirkanmaa		51516		51516	103032		
Kuukkois-Suomi		45237		45237	90474		
Etelä-Savo		50242		50242	100484		
Pohjois-Savo		115640		115640	231280		
Pohjois-Karjala		60636		60636	121272		
Keski-Suomi		54054		54054	108108		
Etelä-Pohjanmaa		105955		105955	211910		
Pohjanmaa		105367		105367	210734		
Ahvenanmaa		7391		7391	14782		
Total		737772		737772	1475544		

(a) Disease and species if necessary

¹⁹ Data to provide only if appropriate.

- (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

Disease^(a): bluetongue **Animal species: sheep and goats**

Region ^(b)	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	
Uusimaa		7710		7710		7710			
Vuosis-Suomi		11043		11043		11043			
Satakunta		6526		6526		6526			
Etelä-Pohjanmaa		4537		4537		4537			
Pirkanmaa		8160		8160		8160			
Kuukkois-Suomi		4789		4789		4789			
Etelä-Savo		5109		5109		5109			
Pohjois-Savo		4150		4150		4150			
Pohjois-Karjala		4948		4948		4948			
Keski-Suomi		7119		7119		7119			
Etelä-Pohjanmaa		8157		8157		8157			
Pohjanmaa		9077		9077		9077			
Akkvenanmaa		11010		11010		11010			
Total		92335		92335		92335			

7.3.2. *Targets on vaccination or treatment²⁰ of wildlife*

Disease⁽⁹⁾: bluetongue Animal species: no vaccination is planned on wildlife

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

<u>Costs related to</u>	<u>Specification</u>	<u>Number of units</u>	<u>Unitary cost in €</u>	<u>Total amount in €</u>	<u>Community funding requested (yes/no)</u>
<u>1. Testing</u>	<u>Specification</u>	<u>Number of units</u>	<u>Unitary cost in €</u>	<u>Total amount in €</u>	<u>Community funding requested (yes/no)</u>
<u>1.1. Cost of the analysis</u>	<u>Test: PCR</u>	<u>50</u>	<u>9.95</u>	<u>497.50</u>	<u>YES</u>
	<u>Test: A-B-Eliisa milk</u>	<u>8886</u>	<u>3.09</u>	<u>27457.74</u>	<u>YES</u>
	<u>Test: A-B-Eliisa serum</u>	<u>1600</u>	<u>3.21</u>	<u>5136.00</u>	<u>YES</u>
<u>1.2. Cost of sampling</u>					
<u>1.3. Other costs</u>					
<u>2.1. Purchase of vaccination material</u>	<u>price: 0.81/ewe/cow cattle will be vaccinated twice, sheep and goats will be vaccinated once</u>	<u>1,557,579</u>	<u>0.81</u>	<u>1,269,982.01</u>	<u>YES</u>
<u>2.2. Distribution costs</u>					

2.3. Administrative costs	12000 veterinary visits (17000 cattle holdings, 2000 sheep and goat holdings)	120000	50	920,000	1000
2.4. Control costs					
3. Slaughter and destruction					
3.1. Compensation of animals					
3.2. Transport costs					
3.3. Destruction costs					
3.4. Loss in case of slaughtering					
3.5. Costs from treatment of products (milk, eggs, hatching eggs, etc)					
4. Cleaning and disinfection					

SEURANTAVYÖHYKE

"MUU MAA"

1. SATAKUNTA

1/2 OJA, POHJOINEN

2. PIRKANMAA

3. KANTA-HÄME

4. PÄIJÄT-HÄME

(Ei Orimattila + Pithämi)

HÄME
TEK

5. KYMENLAAKSO

1/2 OJA, POHJOINEN

6. ETELÄ-SAVO

7. KEIJKI-SUOMI

8. ETELÄ-POHJANMAA

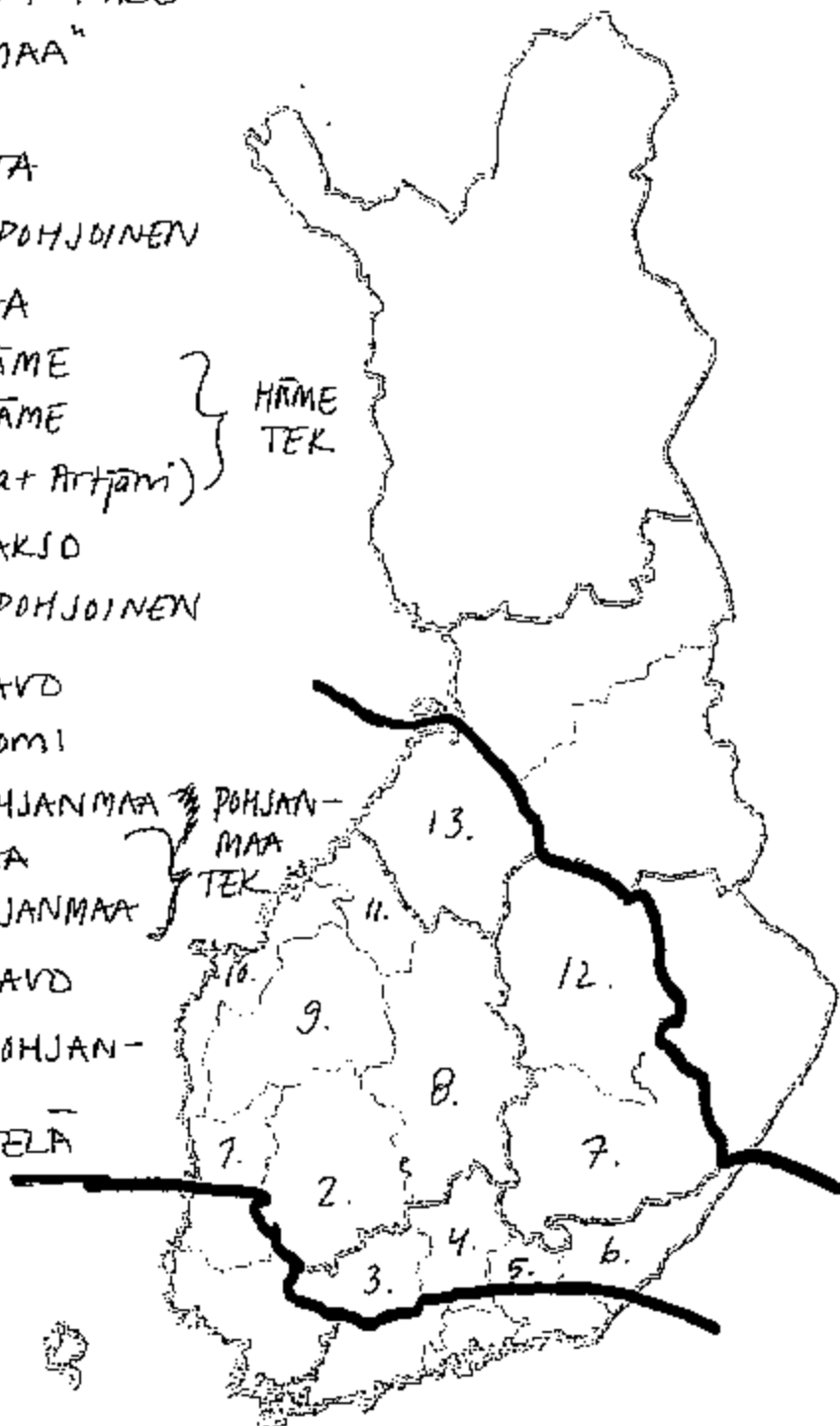
9. POHJANMAA

10. KEIJKI-POHJANMAA

11. POHJOIS-SAVO

12. POHJOIS-POHJAN-
MAA

1/2 OJA, ETELÄ



ROKOTUSALUE VYÖHYKE

1. AHVENANMAA
2. VARSIINAISUOMI
3. UUSIMAA
4. ITÄ-UUSIMAA
5. KYMENLAAKSO
6. PÄIJÄT-HÄME
7. KANTA-HÄME
8. PIRKANMAA
1/3 OSA, ETELÄ
9. JATAKUNTA,
1/2 OSA, ETELÄ



SEURANTAVYÖHYKE
"RISKIRANNIKKO"

- tankkimaidoseuranta OMA
- emolehmien seurainäytteet 1x/mosi

- 1. RHVENANMAA
- 2. VARSINAIS-SUOMI
- 3. UUSIMAA } UUSIMAA
- 1. ITÄ-UUSIMAA } TEK
- 7. KYMENLAAKSO,
1/2 OSA ETELÄ
- ETELÄ-KARJALA
3 ETELÄISINTÄ KUNTAA
- Luumäki, Lappeenranta,
Ylämaa
- 8. PÄIJÄTHÄME
2 ETELÄISINTÄ KUNTAA
- Orimattila +
Artjärvi
- 9. SATAKUNTA
1/2 OSA, ETELÄ

