



EUROPEAN COMMISSION
HEALTH & CONSUMERS DIRECTORATE-GENERAL
Unit 04 - Veterinary Control Programmes

SANCO/3777/2008

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

Surveillance and Eradication programme of Bluetongue

Approved* for 2009 by Commission Decision 2008/897/EC

Luxembourg

* in accordance with Commission Decision 90/424/EEC

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. Identification of the programme

Member State: Luxembourg

Disease(s): Fièvre catarrhale ovine

Request of Community co-financing for: 2009

Reference of this document: F.C.O.-2009 a.b.

Contact (name, phone, fax, e-mail): Dr Arthur BESCH, tel. (00352) 2478 25 39, fax (00352) 40 75 45, e-mail: arthur.besch@asy.etat.lu

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

La F.C.O. a fait son apparition en Europe Centrale vers mi-août 2006, plus particulièrement dans la région frontalière NL – BE – DE (Kerkrade – Liège - Aix-la-Chapelle).

En application de la directive 2000/75/CE arrêtant des dispositions spécifiques relatives aux mesures de lutte et d'éradication de la F.C.O., le Luxembourg s'est vu compris dans la zone réglementée des 150 km.

Finalement, avec la rentrée des bovins de pacage à partir des zones infectées des États membres limitrophes, la F.C.O. a été introduite au Luxembourg fin novembre 2006. Le Luxembourg a connu 5 cas fin 2006 et 3 cas au début janvier 2007 avec la conséquence que la moitié Nord du pays a été définie comme zone infectée (zone à 20 km) avec toutes les restrictions des mouvements des espèces animales sensibles.

La période « vector-free », fixée de commun accord avec les États membres avoisinants infectés, a été levée le 30 mars 2007 suite à la surveillance entomologique.

En date du 17 août 2007, le 1^{er} cas de F.C.O. avec symptômes cliniques a été détecté dans la région Est du pays. Dans la suite, l'épidémie s'est propagée d'une manière rasante sur tout le pays pour atteindre quelques 70% des effectifs du cheptel sensible, à savoir les bovins (75% des cas), les ovins (24,5% des cas) et les caprins (0,5% des cas).

La période « vector-free » a commencé le 21 décembre 2007 sur base des relevés météorologiques et des résultats de la surveillance entomologique.

Un monitoring effectué début 2008 sur les bovins de race viandeuse âgés > 24 mois a mis en évidence une séroprévalence de quelques 93%.

3. Description of the submitted programme:

Le programme d'éradication, de lutte et de surveillance pour 2009 sera adapté en fonction de l'évolution de la maladie et comprendra notamment :

- une sensibilisation et une formation des éleveurs concernant les risques et l'évolution de la F.C.O. ;
- une surveillance sérologique des cheptels sensibles ;
- une vaccination obligatoire des bovins, des ovins et des caprins âgés > 3 mois ;
- un suivi sérologique des animaux vaccinés ;
- un monitoring entomologique réparti sur tout le pays ;
- la lutte contre les insectes.;

L'objectif du programme consiste dans une réduction des cas cliniques de la maladie avec la perspective, à moyen terme, de son éradication.

La déclaration de la circulation, dans une zone déterminée, du virus de la F.C.O. est basée sur les résultats de laboratoire, les risques cliniques et la surveillance entomologique.

4. Measures of the submitted programme

4.1. *Summary of measures under the programme*

Duration of the programme:

First year: 2006

Last year: 2011 (?)

Control

Eradication

Testing

Testing

Slaughter of animals tested positive

Slaughter of animals tested positive

Killing of animals tested positive

Killing of animals tested positive

Vaccination

Extended slaughter or killing

Treatment

Disposal of products

Disposal of products

Eradication, control or monitoring

Other measures (specify)

entomological surveillance

4.2. *Organisation, supervising and role of all stakeholders involved in the programme¹:*

A.S.V.: Direction · vétérinaires-inspecteurs · vétérinaires officiels · secteur des éleveurs

¹ Describe the authorities charged with supervising and coordinating the departments responsible for implementing the programme and the different operators involved. Describe the responsibilities of all involved.

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

Tout le territoire du Luxembourg = 2.586 km².

5. **Benefits of the programme:**

L'éradication, la lutte et la surveillance contre la F.C.O. ont pour objectif de réduire la prévalence de la maladie, de l'éradiquer afin de prévenir les séquelles négatives de productivité des animaux atteints ainsi que d'éviter les restrictions des flux commerciaux avec tout son impact négatif sur l'économie agro-alimentaire.

S'y ajoutent les coûts des thérapeutiques et de vaccination du cheptel concerné.

6. Data on the epidemiological evolution during the last five years²

6.1. Evolution of the disease

6.1.1. Data on evolution of the disease³ (one table per year and per disease-species)

Year: 2009

Situation on date: April 2008

Disease^{1b)}:

F.C.O.

Animal species:

Bovines

Region	Total number of herds ⁴	Total number of herds under the programme	Number of herds checked	Number of positive herds ⁵	Number of new positive herds ⁶	Number of herds depopulated ⁷	% positive herds depopulated ⁸	INDICATORS		
								% herd coverage	% positive herds per herd prevalence	% new positive herds herd incidence
1	2	3	4	5	6	7	8 = (7/5) x 100	9 = (2/2) x 100	10 = (5/4) x 100	11 = (6/4) x 100
G-D de Luxbg										
Total	1 520	1 520	1 52	2	2	1	7	10	5	2

² The data on the evolution of the disease are provided according the tables below where appropriate

³ Data to provide for Bovine tuberculosis, Bovine brucellosis, IBR/IBRV (AI + embryo units), Ovine and caprine brucellosis (B. melitensis), Friezoutig bovine leucosis (EBL), Aujeszky's disease, Anthrax, Maed/Wena and CAEV, IBR/ITV (other types of enteroviruses), Johnes disease (paratuberculosis), CBPP, African Swine fever, swine vesicular disease, endemic classical swine fever, heartwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, anaplasmosis transmitted by vector insects in the French overseas departments, Bluetongue in endemic or high risk areas

6. Data on the epidemiological evolution during the last five years⁶

6.1. Evolution of the disease

6.1.1 Data on evolution of the disease (one table per year and per disease species)

Year: 2009

Situation on date: April 2008

Disease^(b):

F.C.O.

Animal species: Caprines

Region	Total number of herds	Total number of herds under the programme	Number of herds checked	Number of positive herds	Number of new positive herds	Number of herds depopulated	% positive herds depopulated	INDICATORS		
								% herd coverage	% positive herds per herd prevalence	% new positive herds
1	2	3	4	5	6	7	8 = (7/3) x 100	9 = (4/2) x 100	10 = (5/4) x 100	11 = (6/4) x 100
G-D de Luxbg										
Total	106	105	10	2	2	1	1	10	2	2

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

⁶ Data to provide for Bovine tuberculosis, Bovine brucellosis, IBR/PIV (AI + embryo units), Cyne and caprine brucellosis (B melitensis), enzootic bovine leukosis (ELK), Aujeszky's disease, Anthrax, Maedi/Visna and CAEV, IBR/PIV (other types of enteric), Jahnke disease (paratuberculosis), CBPP, African Swine fever, swine vesicular disease, endemic classical swine fever, heatwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, anaplasmosis transmitted by vector insects in the French overseas departments, Bluetongue in endemic or high risk areas

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

Year: 2009 Situation on date: April 2008

Disease^(a): F.C.O Animal species: Bovines

Region	Total number of animals	Number of animals to be tested under the programme	Number of animals tested	Number of animals tested individually	Number of positive animals	Slaughtering		INDICATORS	
						Number of animals with positive result slaughtered or culled	Total number of animals slaughtered	% coverage at animal level	% positive animals Animal prevalence
Luxembourg	2	3	4	5	6	7	8	$9 = (4/3) \times 100$	$10 = (6/4) \times 100$
Total	180 305	160 000	1 215	1 315	7	7	7	0%	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 seroprevalence.
- (e) Include only animals tested individually; do not include animals tested by bulk level samples (e.g. milk bulk tank tests).
- (f) Include all positive animal slaughtered and also the negative animals slaughtered under the programme.

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

Year: 2009 **Situation on date:** April 2008

Disease^(a): F.C.O. **Animal species:** Ovines

Region ^(b)	Total number of animals ^(c)	Number of animals ^(d) to be tested under the programme	Number of animals ^(e) tested	Number of animals tested individually ^(f)	Number of positive animals	Slaughtering		INDICATORS	
						Number of animals with positive result slaughtered or culled	Total number of animals slaughtered ^(g)	% coverage at animal level	% positive animals Animal prevalence
Luxembourg	2	3	4	5	8	7	8	8=4/3*100	100=8/4*100
Total	15.000	1.500	490	450	?	?	?	3,2	?

- (a) Disease and animal species if necessary.
- (b) Region as defined in the approved certification 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 (e.g. milk bulk tank tests).
- (f) Include all positive animal slaughtered and also the negative animals slaughtered under the programme.

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

Year: 2009 Situation on date: April 2008

Disease^(a): F.C.O. Animal species: Caprines

Region	Total number of animals ^(b)	Number of animals ^(c) to be tested under the programme	Number of animals tested	Number of animals tested individually ^(d)	Number of positive animals	Slaughtering		INDICATORS	
						Number of animals with positive result slaughtered or culled	Total number of animals slaughtered ^(e)	% coverage at animal level	% positive animals Animal prevalence
Luxembourg	2	3	4	5	6	7	8	$9=(4/3)*100$	$10=(6/4)*100$
Total	3 300	3 000	65	65	7	7	7	2.8 %	?

- (a) Disease and animal species if necessary
 (b) Regrets 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) Includes only animals tested individually; do not include animals tested by bulk level samples (e.g. 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): FCO Animal species/category^(b): Bovines

Description of the used serological tests:

Description of the used microbiological or virological tests: ELISA Ac
PCR

Description of the other used tests:

Region	Serological tests		Microbiological or virological 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
G-D de Luxembourg						
Total	9.000	3	10	7	9.010	3

- (a) In some and animal species if necessary
 (b) Breeders, young birds, etc. when appropriate
 (c) Region as defined in the approved eradication programme of the Member State.
 (d) Number of samples tested, all confounded
 (e) Number of positive samples, all confounded

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 Disease¹⁾: E.C.O. Animal species/category²⁾: Ovines

Description of the used serological tests: ELISA Ac
P.C.R.

Description of the used microbiological or virological tests: Cultures

Description of the other used tests:

Region	Serological tests		Microbiological or virological 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
G-D de Luxembourg						
Total	496	2	5	2	495	2

- (a) Disease and animal species if necessary
 (b) Breeders, laying hens, etc. when appropriate
 (c) Region as defined in the approved eradication programme of the Member State
 (d) Number of samples tested, all confounded
 (e) Number of positive samples, all confounded

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⁽⁹⁾: F.C.C. Animal species/category⁽¹⁰⁾: Caprines

Description of the used serological tests: ELISA, Ac P.C.R.

Description of the used microbiological or virological tests: Cultures

Description of the other used tests:

Region	Serological tests		Microbiological or virological 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
G-D, de Luxembourg						
Totals	100	9	5	2	105	9

- (a) Disease and animal species if necessary.
 (b) Breeders, laying hens, etc. when appropriate.
 (c) Region as defined in the approved eradication programme of the Member State.
 (d) Number of samples tested, all confounded.
 (e) Number of positive samples, all confounded.

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

Year: 2007

Disease^(a): FCO

Animal species: Caprines

Region ^(b)	Number of herds infected	Number of animals infected
G-D de Luxembourg		
Total	70	600

(a) Disease and animal species if necessary.

(b) Region as defined in the application 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 year⁹

Year: 2007

Disease⁽¹⁾: FCO

Animal species: Bovines

Region	Total number of herds and animals under the programme		Status of herds and animals under the programme ⁽⁹⁾									
	Herds	Animals ⁽¹⁾	Unknown ⁽⁶⁾ Herds	Animals ⁽¹⁾ Herds	Not free or not officially free from disease Last check positive ⁽⁷⁾ Herds	Animals ⁽¹⁾ Last check negative ⁽⁸⁾ Herds	Animals ⁽¹⁾ Free or officially from disease status suspended ⁽⁹⁾ Herds	Animals ⁽¹⁾ Free from disease ⁽¹⁰⁾ Herds	Animals ⁽¹⁾ Officially free from disease ⁽¹¹⁾ Herds	Animals ⁽¹⁾		
Luxbg												
Total	4 520	480 305	1	1	4 034	160 000	1	1	456	20 000	1	1

(1) Disease and species if necessary

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

(7) At the end of the year

(8) Unknown: No previous checking results available

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

(10) Not free and last check negative: Herd checked with negative results in the latest check but not being "free" or "officially free"

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

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

(13) Officially free herd as defined in Community or National legislation for the respective disease

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

⁹ Data to provide for Bovine tuberculosis, Bovine brucellosis, IBR/IBPV (AI + embryo units), Ovine and caprine brucellosis (B. melitensis), Enzootic bovine leukosis (EBL), Aujeszky's disease, Maedi/Vienna and CAEV, IBR/IBPV (other types of enteric), Johne's disease (paratuberculosis).

6.4. Data on the status of herds at the end of each year¹⁰

Year: 2007

Disease^(a): FCO

Animal species: Caprines

Region	Total number of herds and animals under the programme		Status of herds and animals under the programme ^(c)		Not free or not officially free from disease		Free or officially from disease status		Free from disease ^(e)		Officially free from disease ^(e)	
	Herds	Animals ^(b)	Herds	Animals ^(b)	Herds	Animals ^(b)	Herds	Animals ^(b)	Herds	Animals ^(b)	Herds	Animals ^(b)
Luxbg												
Total	106	3 000	1	1	79	600	1	39	1	1	1	1

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

12

Data to provide for Bovine tuberculosis, Bovine brucellosis, IBR/IPV (AI + embryo units), Ovine and caprine brucellosis (B. melitensis), Erizoitic bovine leukosis (EBL), Aujeszky's disease, Maedi/Visna and CAEV, IBR/IPV (other types of enteric), Johnes disease (paratuberculosis)

6.5. Data on vaccination or treatment programmes¹¹

Year: 2003

Disease^(a): FCO

Animal species: Bovines

Description of the used vaccination, therapeutic or other scheme:

Region ^(b)	Total number of herds	Total number of animals	Information on vaccination or treatment programme						
			Number of herds in vaccination or treatment programme	Number of herds vaccinated or treated	Number of animals vaccinated or treated	Number of doses of vaccine or treatment administered	Number of adults vaccinated	Number of young animals vaccinated	
Luxembourg									
Total	1 520	130 305	1 520	1 520	189 000	320 000	1	1	

- (a) Disease and species if necessary
 (b) Regions defined in the approved evaluation programme of the Member State
 (c) Herds equid flocks, or holdings as appropriate
 (d) Only for Bovine brucellosis, Crime and capture brucellosis (*B. melitensis*) and zoonotic salmonella, and as defined in the programme

¹¹ Data to provide, where appropriate for Bovine brucellosis, IBR/IBV (AI + embryo units), Ovine and caprine brucellosis (*B. melitensis*), Aujeszky's disease, *Salmonella pullorum*, *Salmonella gallinarum*, Anthrax, IBR/IBV (other types of enteroviruses), Johnes disease (paratuberculosis), *Mycoplasma gallisepticum* heartwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, anaplasmosis transmitted by vector insects in the French overseas departments, Bluetongue in endemic or high risk areas, Rabies, *Echinococcus* and salmonellosis (zoonotic salmonella) and agents thereof

6.5. Data on vaccination or treatment programmes¹²

Year: 2008

Disease^(a): FCO

Animal species: Ovines

Description of the used vaccination, therapeutic or other scheme:

Region	Total number of herds	Total number of animals	Information on vaccination or treatment programme					
			Number of herds ^(b) in vaccination or treatment programme	Number of herds ^(b) vaccinated or treated	Number of animals vaccinated or treated	Number of doses of vaccine or treatment administered	Number of adults ^(c) vaccinated	Number of young ^(c) animals vaccinated
Luxembourg								
Total	742	18,000	742	742	15,000	15,000	1	1

(a) Disease and species if necessary

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

(c) Herds equal flocks, or holdings as appropriate

(d) Unit for Bovine brucellosis, Ovine and caprine brucellosis (1) melitensis and zoonotic salmonella and as defined in the programme

12

Data to provide, where appropriate for Bovine brucellosis, BR/MPV (AI + embryo units), Ovine and caprine brucellosis (*B. melitensis*) Ajzeszky's disease, *Salmonella pullorum*, *Salmonella gallinarum*, Anthrax, BR/MPV (other types of enterprise) Johnes disease (paratuberculosis), *Mycoplasma gallisepticum*, heatwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, anaplasmosis transmitted by vector insects in the French overseas departments, Bluetongue in endemic or high risk areas, Rabies, *Echinococcus* and salmonellosis (zoonotic salmonella) and agents thereof.

6.5. Data on vaccination or treatment programmes ¹³

Year: 2008

Disease^(a):

FCO

Animal species:

Caprines

Description of the used vaccination, therapeutic or other scheme:

Region	Total number of herds	Total number of animals	Information on vaccination or treatment programme						
			Number of herds in vaccination or treatment programme	Number of herds vaccinated or treated	Number of animals vaccinated or treated	Number of doses of vaccine or treatment administered	Number of adults vaccinated	Number of young animals vaccinated	
Luxembourg									
Total	108	3 000	108	108	3 000	3 000	/	/	

(a) Disease and species if necessary

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

(c) Herds equal, flocks, or holdings as appropriate

(d) Only for *Brucella brucellus*, *Brucella abortus* and *Brucella melitensis* and zoonotic salmonella, and as defined in the programme¹³

Data to provide, where appropriate for Bovine brucellosis, IBR/HPV (AI + embryo units), Ovine and caprine brucellosis (*B. melitensis*), Aujeszky's disease, *Salmonella pullorum*, *Salmonella gallinarum*, Anthrax, IBR/HPV (other types of enterprisel), Johnes disease (paratuberculosis), *Mycoplasma gallisepticum*, heartwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, anaplasmosis transmitted by vector insects in the French overseas departments, Bluetongue in endemic or high risk areas, Rabies, *Echinococcus* and salmonellosis (zoonotic salmonella) and agents thereof.

7. Targets

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

7.1.1. Targets on diagnostic tests 2009

Disease⁽⁴⁾: FCO Animal species: bovines

Region ⁽¹⁾	Type of the test	Target population ⁽²⁾	Type of sample	Objective ⁽³⁾	Number of planned tests
G.D. de Luxembourg	ELISA, Ac P C R Virus isolation	vaccinated bovines vaccinated bovines vaccinated bovines	blood blood blood	Serocconversion Viremia	1.000 300 100
Total					1.400

- (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, RT-PCR, ...)
- (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, surveillance, confirmation of suspected cases, monitoring of campaigns, seroconversion control on detected vaccines, testing of vaccine, control of vaccination, ...)

7. Targets

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

7.1.1. *Targets on diagnostic tests 2009*

Disease^(a): F.C.O. **Animal species:** Ovines

Region ^(a)	Type of the test ^(b)	Target population ^(c)	Type of sample ^(d)	Objective ^(e)	Number of planned tests
G-D, de Luxembourg	ELISA, Ac	vaccinated ovines	blood	Seroconversion	400
	P.C.R	vaccinated ovines	blood	Viremia	80
	Ympostelation	vaccinated ovines	blood	Viremia	40
					520

- (a) Disease and species if necessary
- (b) Region as defined in the approved qualification programme of the Member State
- (c) Description of the test (for instance: SV-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.

Targets**7.1. Targets related to testing (one table for each year of implementation)***7.1.1. Targets on diagnostic tests 2009***Disease^(a):** FCO**Animal species:** caprines

Region	Type of the test	Target population ^(b)	Type of sample	Objective	Number of planned tests
G-D, de Luxembourg	Eliisa Av	vaccinated caprines	blood	Seroconversion	50
	P.C.R.	vaccinated caprines	blood	Viremia	30
	Virus isolation	vaccinated caprines	blood	Viremia	20
					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: SX-test, M2-Eliisa, KBT, ...)
- (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: qualitative surveillance, confirmation of suspected cases, monitoring of companies, seroconversion control on detected vaccines, testing of vaccine, control of vaccination, ...)

7.1.2. *Targets on testing herds and animals⁽¹⁾*

7.1.2.1 *Targets on the testing of herds⁽²⁾*

Disease^(1a): F.C.O. **Animal species:** bovines

Region G.-D. de Luxbg	Total number of herds ⁽³⁾	Total number of herds under the programme	Number of herds expected to be checked ⁽⁴⁾	Number of expected positive herds ⁽⁵⁾	Number of expected new positive herds ⁽⁶⁾	Number of herds expected to be depopulated ⁽⁷⁾	% positive herds expected to be depopulated ⁽⁸⁾	TARGET INDICATORS		
								Expected % herd coverage ⁽⁹⁾	% positive herds Expected period herd prevalence ⁽¹⁰⁾	% new positive herds Expected herd incidence ⁽¹¹⁾
2	3	4	5	6	7	8 = (7/6)*100	9 = (9/3)*100	10 = (5/4)*100	11 = (6/4)*100	
Total	1 520	1 520	76	vaccinated	vaccinated	7	7	5%	7	

animals vaccinated

- (a) Herds or flocks, as findings 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 should 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 positive animal in this period

^{1a} Data to provide for Bovine tuberculosis, Bovine brucellosis, IBR/IBV (AI + embryo units), Ovine and caprine brucellosis (B melitensis), Erizootic bovine leukosis (EBL), Aujeszky's disease, Anthrax, Maedi/Visiona and CAEV IBR/IBV (other types of enterprize), Jctines disease (paratuberculosis), CBPP African Swine fever, swine vesicular disease, endemic classical swine fever, heartwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, arapiasmosis transmitted by vector insects in the French overseas departments, Buetongue in endemic or high risk areas

7.1.2 *Targets on testing herds and animals¹⁵*

7.1.2.1 *Targets on the testing of herds¹⁶*

Disease^(b): F.C.O. Animal species: ovines

Region	Total number of herds ¹⁷	Total number of herds under the programme	Number of herds expected to be checked	Number of expected positive herds		Number of expected new positive herds	Number of herds expected to be depopulated	% positive herds expected to be depopulated	TARGET INDICATORS		
				vaccinated	vaccinated				Expected % herd coverage	% positive herds expected prior herd prevalence	% new positive herds expected herd incidence
G-U, de Luidg	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	
Total	742	742	37	vaccinated	vaccinated	1	1	5%		1	

animals vaccinated

- (a) Herds or flocks or holdings as appropriate
- (b) Disease and animal species if necessary
- (c) Regions 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 should 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 positive animal in this period

¹⁵ Data to provide for Bovine tuberculosis, Bovine brucellosis, IBR/IBV (AI + embryo units), Ovine and caprine brucellosis (B melitensis), Erizoitic bovine leukosis (EBL), Aujeszky's disease, Anthrax, Meeid/Virus and CAEV, IBR/IBV (other types of enterprise), Johnes disease (paratuberculosis), CBPP, African Swine fever, swine vesicular disease, endemic classical swine fever, heartwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, anaplasmosis transmitted by vector insects in the French overseas departments, Bluetongue in endemic or high risk areas

7.1.2. Targets on testing herds and animals¹⁶

7.1.2.1 Targets on the testing of herds¹⁷⁾

Disease^(b): F.C.O. Animal species: caprines

Region G-D de Luxbg	Total number of herds ¹⁾	Total number of herds under the programme	Number of herds expected to be checked ²⁾	Number of expected positive ³⁾ herds ⁴⁾	Number of expected new ⁵⁾ positive herds ⁶⁾	Number of herds expected to be depopulated ⁷⁾	% positive herds expected to be depopulated ⁸⁾	TARGET INDICATORS		
								Expected % herd coverage ⁹⁾	% positive herds Expected period herd prevalence ¹⁰⁾	% new positive herds Expected herd incidence ¹¹⁾
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	
Total	102	102	6	vaccinated	vaccinated	1	1	5%	1	

animals vaccinated

- (a) Herds or flocks, or holdings as appropriate
- (b) Disease and animal species if necessary
- (c) Region as defined in the approved evaluation 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 should 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

¹⁶ Data to provide for Bovine tuberculosis, Bovine brucellosis, IBR/IBPV (AI + embryo units), Ovine and caprine brucellosis (B melitensis), Enzootic bovine leukosis (EBL) Aujeszky's disease, Anthrax, Maedi/Vianna and CAEV, IBR/IBPV (other types of enterprise), Johnes disease (paratuberculosis), CBPP, African Swine fever, swine vesicular disease, enderitic classical swine fever, heartwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, anaplasmosis transmitted by vector insects in the French overseas departments, Bluetongue in endemic or high risk areas

Disease^(a): F.O.D.

Animal species: bovines

7.1.2.2. Targets on the testing of animals

Region	Total number of animals ^(b)	Number of animals ^(c) under the programme	Number of animals expected to be tested		Number of animals to be tested individually ^(d)	Number of expected positive animals	Slaughtering		TARGET INDICATORS	
			Number of animals expected to be tested	Number of animals expected to be tested individually ^(d)			Number of animals with positive result expected to be slaughtered or culled	Total number of animals expected to be slaughtered	Expected % coverage at animal level	% positive animals (Expected animal prevalence)
G - D de Luxbg	2	3	4	5	6	7	8	$9 = (4/3) \times 100$	$10 = (6/4) \times 100$	
Total	180 305	160 000	1 400	1 400	animals vaccinated	1	1	0.8%	animals vaccinated	

Disease^(a): FCO

7.1.2.2. Targets on the testing of animals

Animal species: caprines

Region	Total number of animals	Number of animals under the programme	Number of animals expected to be tested	Number of animals to be tested individually	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	Expected % coverage at animal level	% positive animals (Expected animal prevalence)
G. D. de Luxbg	2	3	4	5	6	7	8	9=(4/3)*100	10=(6/4)*100
Total	3 300	3 000	100	100	animals vaccinated	1	1	2,9%	animals vaccinated

7.2. Targets on qualification of herds and animals¹⁾
Disease²⁾: F.C.O. **Animal species:** bovines

Region	Total number of herds and animals under the programme	Targets on the status of herds and animals under the programme ³⁾											
		Expected unknown ⁴⁾	Expected not free or not officially free	Expected free or officially free or suspended ⁵⁾	Expected free ⁶⁾	Expected officially free ⁷⁾	Expected not free or not officially free	Expected free ⁸⁾					
		Herds	Animals ⁹⁾	Herds	Animals ¹⁰⁾	Herds	Animals ¹¹⁾	Herds	Animals ¹²⁾	Herds	Animals ¹³⁾	Herds	Animals ¹⁴⁾
G-D de Luxbg	Herds : Animals ¹⁵⁾	Herds : Animals ¹⁶⁾	Herds : Animals ¹⁷⁾	Herds : Animals ¹⁸⁾	Herds : Animals ¹⁹⁾	Herds : Animals ²⁰⁾	Herds : Animals ²¹⁾	Herds : Animals ²²⁾	Herds : Animals ²³⁾	Herds : Animals ²⁴⁾	Herds : Animals ²⁵⁾	Herds : Animals ²⁶⁾	Herds : Animals ²⁷⁾
Total	1 520 189 305	1	1	1	1	1	1	1	1	1	1	1	1

vaccination programme for 2008

¹⁾ Data to provide for Bovine tuberculosis, Bovine brucellosis, iBR/PPV (AI + embryo units), Ovine and caprine brucellosis (S. melitensis), Enzootic bovine leukosis (EBL), Aujeszky's disease, Maedi/Visna and CAEV, IBR/PPV (other types of enterprize), Johnes disease (paratuberculosis).

7.2. Targets on qualification of herds and animals¹⁸Disease⁽⁴⁾: F.C.O

Animal species: ovines

Region	Total number of herds and animals under the programme	Targets on the status of herds and animals under the programme ⁽⁵⁾										
		Expected unknown ⁽⁶⁾		Expected not free or not officially free		Expected free or officially free suspended ⁽⁸⁾	Expected free ⁽⁸⁾	Expected officially free ⁽⁹⁾				
	Herds	Animals ⁽⁷⁾	Herds	Animals ⁽⁷⁾	Last check positive ⁽⁶⁾	Last check negative ⁽⁶⁾	Herds	Animals ⁽⁷⁾	Herds	Animals ⁽⁷⁾	Herds	Animals ⁽⁷⁾
G-D de Luxbg												
Total	742	16 000	/	/								

Vaccination programme for 2008

¹⁸ Data to provide for: Bovine tuberculosis, Bovine brucellosis, IBR/FPV (AI + embryo units), Cvine and caprine bruceiosis (B. melitensis), Enzootic bovine leukosis (EBL), Aujeszky's disease, Maedi/Visna and CAEV (BR)/PV (other types of enterprize), Johne's disease (paratuberculosis)

7.2. Targets on qualification of herds and animals¹⁹Disease^{1a)}: FCO

Animal species:

caprines

Region	Total number of herds and animals under the programme	Targets on the status of herds and animals under the programme ^{1c)}									
		Expected unknown ^{1d)}	Expected not free or not officially free		Expected free or officially free suspended ^{1e)}	Expected free ^{1f)}	Expected officially free ^{1g)}				
		Herds	Animals ^{1f)}	Herds	Animals ^{1f)}	Herds	Animals ^{1f)}	Herds	Animals ^{1f)}	Herds	Animals ^{1f)}
G-D de Luxbg											
Total	105	3	300	1	1						

Vaccination programme for 2008

¹⁹ Data to provide for Bovine tuberculosis, Bovine brucellosis, IBR/HPV (AI + embryo units), Ovine and caprine brucellosis (B. melitensis), Enzootic bovine leukosis (EBL), Aujeszky's disease, Mead/Visna and CAEV, IBR/HPV (other types of enterprae), Johnes disease (paratuberculosis).

7.3. Targets on vaccination or treatment

7.3.1. Targets on vaccination or treatment²⁰ 2009

Disease^(a): F C O. **Animal species:** bovines

Region	Total number of herds ^(b) 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 ^(e) animals expected to be vaccinated
G.-D. de Luxembourg								
Total	1 520	160 306	1 520	1 520	160 000	320 000	110 000	50 000

- (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 as defined in the programme

²⁰

Data to provide for Bovine brucellosis, IBR/IBPV (A1 + embryo units), Ovine and caprine brucellosis (*B. melitensis*), Aujeszky's disease, *Salmonella pullorum*, *Salmonella gallinarum*, Anthrax, IBR/IBPV (other types of enterprize), Johnes disease (paratuberculosis), *Mycoplasma gallisepticum*, heartwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, anaplasmosis transmitted by vector insects in the French overseas departments, Bluetongue in endemic or high risk areas, Rabies, Echinococcosis, salmonellosis (*Zoonotic salmonella*) and agents thereof

7.3. Targets on vaccination or treatment

7.3.1. Targets on vaccination or treatment²¹ 2009

Disease^(a): F.C.O.

Animal species:

ovines

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 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 animals expected to be vaccinated
G-ID de Luxembourg								
Total	742	16.000	742	742	15.000	15.000	10.000	5.000

- (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.

²¹

Data to provide for Bovine brucellosis, IBR/IBPV (AI + embryo units), Ovine and caprine brucellosis (*B. melitensis*), Aujeszky's disease, *Salmonella pullorum*, *Salmonella gallinarum*, Anthrax, IBR/IBPV (other types of enterprize), Johnes disease (paratuberculosis), *Mycoplasma gallisepticum*, heartwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, anaplasmosis transmitted by vector insects in the French overseas departments, Bluetongue in endemic or high risk areas, Rabies, *Echinococcus*, salmonellosis (zoonotic salmonella) and agents thereof.

7.3. Targets on vaccination or treatment

7.3.1. Targets on vaccination or treatment²² 2009Disease^(a): F C C

Animal species:

caprines

Region	Total number of herds in vaccination or treatment programme	Total number of animals in vaccination or treatment programme	Targets on vaccination or treatment programme						
			Number of herds in vaccination or treatment programme	Number of herds 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 expected to be vaccinated	Number of young animals expected to be vaccinated	
G.-D. de Luxembourg									
Total	106	3 300	106	106	3 000	3 000	2 100	900	

- (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

22

Data to provide for Bovine brucellosis, IBR/IBPV (AI + embryo units), Ovine and caprine brucellosis (B. melitensis), Aujeszky's disease, Salmonella pullorum, Salmonella gallinarum, Anthrax, IBR/IBPV (other types of enteric), Johne's disease (paratuberculosis), Mycoplasma gallisepticum, heartwater transmitted by vector insects in the French overseas departments, babesiosis transmitted by vector insects in the French overseas departments, anaplasmosis transmitted by vector insects in the French overseas departments, Bluetongue in endemic or high risk areas, Rabies, Echinococcosis, salmonellosis (zoonotic salmonella) and agents thereof.

7.3.2. *Targets on vaccination or treatment¹ of wildlife*

Disease^{1(a)}: FCO Animal species: wild life

Region ^{1(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
no vaccination				
Total				

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

²³ Data to provide for Bovine brucellosis, Ovine and caprine brucellosis (B. melitensis), Aujeszky's disease, African Swine fever, swine vesicular disease, endemic classical swine fever, Rabies, Echinococcosis and trichinellosis and agents thereof.

8. Detailed analysis of the cost of the programme - bovines

Costs related to	Specification	Number of units	Unitary cost in €	Total amount in €	Community funding requested (yes/no)
1. Testing					
1.1. Cost of the analysis					
	Test: Elisa Ac	1.000	6	6.000	yes
	Test: P.C.R.	300	69	20.700	yes
	Test: Viral isolation	100	58,30	5.830	yes
1.2. Cost of sampling	prime d'état	85	20	1.700	yes
1.3. Other costs					
2. Vaccination or treatment					
2.1. Purchase of vaccine / treatment	vaccination	320.000	0,55	176.000	yes
2.2. Distribution costs		320.000	0,20	64.000	yes

2.3. Administering costs		32.000	2	640.000	yes
2.4. Control costs				3.000	yes
3. Slaughter and destruction					
3.1. Compensation of animals	bovines	150	1.250	187.500	yes
3.2. Transport costs					
3.3. Destruction costs	bovines	150	25	3.750	yes
3.4. Loss in case of slaughtering	bovines	50	1.250	62.500	yes
3.5. Costs from treatment of products (milk, eggs, hatching eggs, etc)					
4. Cleaning and disinfection					
				1.000	yes

5. Salaries (staff contracted for the programme only)		2 (1/2 staff)	24 x 2.500	60.000	yes
6. Consumables and specific equipment				1.000	yes
7. Other costs	Entomological surveillance - culicoides - species determination - cartographies		284,1 € / day 340,9 € / day	284,1 x 10 = 2.841 340,9 x 5 = 1.704,5	yes
TOTAL				1.237.525,5 €	

8. Detailed analysis of the cost of the programme - ovines

Costs related to	Specification	Number of units	Unitary cost in €	Total amount in €	Community funding requested (yes/no)
1. Testing					
1.1. Cost of the analysis	Test: Elisa Ac	200	6	1.200	yes
	Test: P.C.R.	80	69	5.520	yes
	Test : Viral isolation	40	58,30	2.332	yes
1.2. Cost of sampling	prime d'étable	40	20	800	yes
1.3. Other costs					
2. Vaccination or treatment					
2.1. Purchase of vaccine / treatment	vaccination	15.000	0,55	8.250	yes
2.2. Distribution costs		15.000	0,2	3.000	yes

2.3. Administering costs		15,000	2	30,000	yes
2.4. Control costs				500	yes
3 Slaughter and destruction					
3.1. Compensation of animals		30	90	2,700	yes
3.2. Transport costs					
3.3. Destruction costs		30	25	750	yes
3.4. Loss in case of slaughtering		30	90	2,700	yes
3.5 Costs from treatment of products (milk, eggs, hatching eggs, etc)					
4. Cleaning and disinfection				400	yes

5. Salaries (staff contracted for the programme only)		(1/4 staff)	1.250	yes
6. Consumables and specific equipment			300	yes
7. Other costs	Entomological surveillance		284,1 € / day	yes
	- culicoides - species determination		340,9 € / day	
	- cartographies			
	TOTAL		60.327 €	

8. Detailed analysis of the cost of the programme - caprines

Costs related to	Specification	Number of units	Unitary cost in €	Total amount in €	Community funding requested (yes/no)
1. Testing					
1.1. Cost of the analysis					
	Test: Elisa Ac	50	6	300	yes
	Test: P.C.R.	30	69	2.070	yes
	Test : Viral isolation	20	58,30	1.166	yes
1.2. Cost of sampling	prima d'étape	15	20	300	yes
1.3. Other costs					
2. Vaccination or treatment					
2.1. Purchase of vaccine / treatment					
	vaccination	3.000	0,55	1.650	yes
2.2. Distribution costs					
		3.000	0,20	600	yes

2.3. <u>Administering costs</u>		3.000	2	6.000	yes
2.4. <u>Control costs</u>				300	yes
3. <u>Slaughter and destruction</u>					
3.1. <u>Compensation of animals</u>		20	50	1.000	yes
3.2. <u>Transport costs</u>					
3.3. <u>Destruction costs</u>		20	25	500	yes
3.4. <u>Loss in case of slaughtering</u>		20	50	1.000	yes
3.5. <u>Costs from treatment of products (milk, eggs, hatching eggs, etc)</u>					
4. <u>Cleaning and disinfection</u>				300	yes

5. Salaries (staff contracted for the programme only)		(1/8 staff)	625	yes
6. Consumables and specific equipment			200	yes
7. Other costs	Entomological surveillance			
	- culicoides - species determination	284,1 € / day	284,1	yes
	- cartographies	340,9 € / day	340,9	
	TOTAL		16.636 €	

(Total des frais : 1.314.488,5€)

Informations additionnelles

- La vaccination FCO est effectuée par les vétérinaires praticiens. L'AC a envoyé une liste avec tous les bovins éligibles en début de période de vaccination, qui a débuté le 10 mai 08. Le vaccin a été distribué par la firme VISAVET et le vaccin est un vaccin Intervet. Les frais logistiques sont payés par l'Etat
- Les bovins vaccinés sont inscrits sur les listes accompagnantes et le praticien renvoie cette liste en fin de vaccination d'une exploitation. Les animaux vaccinés sont repérés électroniquement
- Concernant le coût PCR, tous les frais sont inclus, à part les frais de transport ou d'envoi. Les analyses sont effectuées au labo CERVA à Uccle(B)

