



EUROPEAN COMMISSION
HEALTH AND CONSUMERS DIRECTORATE-GENERAL

Director General

SANCO/10494/2013

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

The programme for the eradication of rabies

Latvia

Approved* for 2013 by Commission Decision 2012/761/EU

* in accordance with Council Decision 2009/470/EC

ANNEX II

Standard requirements for the submission of programmes of monitoring, eradication and control of animal diseases co-financed by the Community

1. Identification of the programme

Member State: LATVIA

Disease(s)¹: RABIES

Year of implementation: **2011-2013**

Reference of this document: ERADICATION PROGRAMME OF RABIES CO-FINANCED BY THE COMMUNITY

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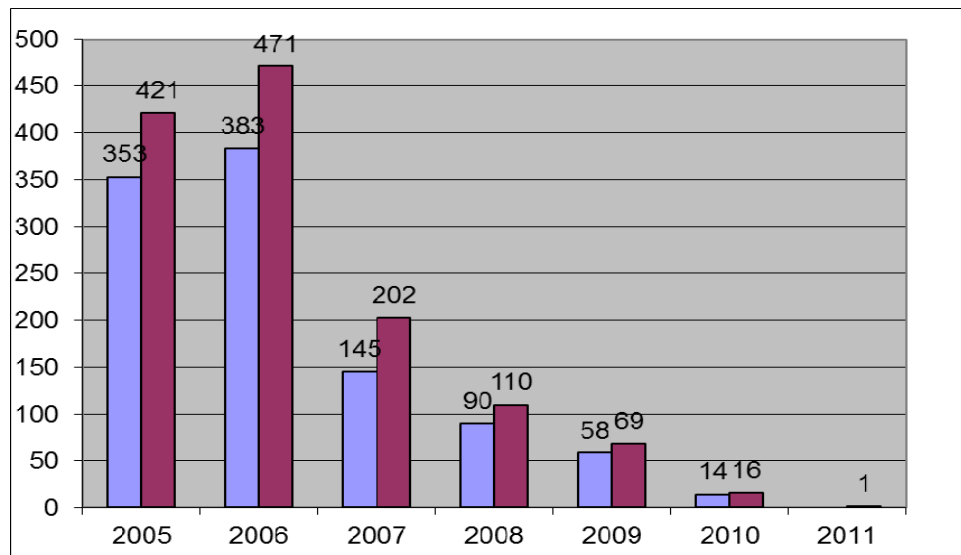
Date sent to the Commission: 26 April, 2012.

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

Canine rabies was registered in Latvia until 1960, the situation changed in early sixties when most of cases were registered in wild animals - foxes and racoon dogs. The outbreaks of rabies are recorded in all 26 administrative regions. One human case was reported in 2003. To reduce the prevalence of rabies and eliminate the sources of infection in the nature (wild animals) Food and Veterinary Service has started the oral vaccination of foxes since 1991. But because of deficiency of budget resources it was not possible to carry out regular vaccination (each year and in all territory of Latvia) and purchase necessary amount of vaccine. Since 2000 the vaccination was carried out in 17 districts, but since 2001 in all 26 administrative districts, but amount of vaccine baits was insufficient. Vaccination was carried out in autumn and spring by distributing vaccine baits twice with 14 days interval. There was no vaccination in 2004 due to delayed start of PHARE project. In 2005 oral vaccination campaigns were carried out in half of territory – 28 000 km² twice a year, providing 23 baits per 1 km². Starting from 2006 two vaccination campaigns was organized in all territory of Latvia when 23 – 25 baits per km² were distributed.

¹ One document per disease is used unless all measures of the programme on the target population are used for the monitoring, the control and eradication of different diseases.

² 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 according distinct periods if the measures were substantially modified. The information is documented by relevant summary epidemiological tables, graphs or maps.



3. Description of the submitted programme³:

The submitted programme is prepared with the purpose to distribute vaccine baits in whole territory of Latvia (64 635 km²) twice per year (spring and autumn) to immunize the main reservoirs of rabies in our country – foxes and raccoon dogs. **This is a multi-annual program for period 2011 – 2013.**

Total amount of vaccine baits to be used in each year is **3 200 000** for all the territory, distributing in two campaigns. **Totally 9 600 000 baits will be distributed within three year period (2011 to 2013). Vaccine baits will be distributed by airplanes with distance between flight lines 500 - 600 meters.**

For the purpose to control efficiency of vaccination programme covers investigation of 4 animals (foxes, raccoon dogs) per 100 km² for antibody titre (using Biorad ELISA test), bait uptake (Detection of tetracycline in mandible tissue using luminescent microscopy).

Total costs of the programme for Latvia for 2013 are **1 567 283.2** Euro.

³ 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.

Oral vaccination programme in Belorussia territory.

Program includes oral vaccination of wildlife in Belarus territory to establish 50km buffer zone with Latvia. Total length of Latvia and Belarus border are 167 km.

Implementation of the program will be ensured by Food and Veterinary service of Belarus

Liabilities and specification of the activities covered by programme will be included in cross border agreement.

The purpose of the programme is to eradicate Rabies in wildlife (foxes and racoon dogs) by oral vaccination in the buffer zone (Verkhnedvinsk, Ushachi, Docshitsi, Glubokoe, Miory, Polotsk, Rossony, Sharkovshchina regions) in Belarus. Vaccine baits will be distributed from airplanes with distance between flight lines 1000 meters twice a year. Some parts of bordering regions are currently included in Lithuanian rabies eradication program, therefore precise area and regions will be defined in an agreement. Approximate area of buffer zone is 10 850 km².

For the evaluation (monitoring) of the efficiency of vaccination campaigns at least 4 target animals (foxes, racoon dogs) per 100 km² will be tested for antibody titre and bait uptake in buffer zone defined in an agreement.

Responsibilities of the Belarus authorities:

1. Purchase of the rabies vaccine baits (according to technical specification of agreement).
2. Ensure distribution of the vaccine baits twice a year (according to technical specification of agreement).
3. Evaluation and control efficiency of the oral vaccination campaigns.
4. Prepare and submit reports on programme implementation (according to requirements set in agreement).

Total amount of vaccine baits to be used in 2013 is **542 500** distributed in two campaigns (spring and autumn).

Total costs of the programme for Belarus for 2013 are **542 857, 00** Euro.

4. Measures of the submitted programme

4.1. *Summary of measures under the programme*

Duration of the programme:

First year: **2011**

Last year: **2013**

Control

- Testing
- Slaughter of positive animals
- Killing of positive animals
- Vaccination
- Treatment
- Disposal of products

Eradication

- Testing
- Slaughter of positive animals
- Killing of positive animals
- Extended slaughter or killing
- Disposal of products

Monitoring or surveillance

Other measures (*specify*):

4.2. *Designation of the central authority charged with supervising and coordinating the departments responsible for implementing the programme*⁴:

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) – 10 regional offices and one city (Riga) office. The central body coordinates activities of the local level and ensure a unified implementation of legislation. The local level carries out the official surveillance in accordance with the state surveillance programmes.

The central authority of Food and Veterinary Service elaborates and coordinates the measures of rabies prophylaxis, control and eradication in the Republic of Latvia, registers and analyses rabies epizootic situation, participates at international animal infectious disease reporting systems. FVS also cooperates with specialists from self-governments, the State Forestry Service, Disease Prevention and Control Centre of Latvia and other institutions in order to carry out disease control.

⁴ 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.

State Senior Veterinary inspectors and State Veterinary inspectors are responsible on surveillance of epizootic situation concerning zoonoses in the territory, organize, coordinate and control execution of demands determined in state; coordinate involvement of state authorized veterinarians in system of state surveillance of zoonoses.

State Authorized Veterinarians carry out several tasks of prophylaxis and eradication of zoonoses determined in legislation and in regulation documentation of FVS. They are involved in Rabies passive surveillance.

4.3. Description and delimitation of the geographical and administrative areas in which the programme is to be implemented⁵:

Program will be implemented in all administrative regions. Total area of republic of Latvia: 64 635 km².

Latvia lies on the Eastern coast of the Baltic Sea. The combined length of the national borders is 1862 km. The length of land borders with Estonia - 343 km, the Eastern with Russia - 282 km, the Southeast with Belarus – 167 km and the Southern with Lithuania - 576 km. The length of sea border is 494 km.

Taking into account above described situation when rabies has been registered in the whole territory of Latvia, the number of main infection carriers - wild animals - foxes and racoon dogs is impermissible high and there is no geographical barrier that could limit the distribution of infection, with an exception of the Baltic Sea in the West and the Gulf of Riga in the North.

Oral vaccination programme in Belorussia territory near Latvia border.

Program includes oral vaccination of wildlife in Belarus territory to establish at least 70 km buffer zone. The area of buffer zone is 10850 km².

Belarus map, with borders of vaccination territory.

⁵ 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.

- Regulation of Cabinet of Ministers No 178, 23 February, 2010 “Order of rabies eradication and control”
- Regulation of Cabinet of Ministers No 127, 21 February, 2012 “Regulation on registrable and notifiable infectious diseases under state control and information to be provided to the Food and Veterinary Service (Repealing Order No 241, 21.09.2001 issued by Food and Veterinary Service determines the list of diseases (including TSEs) immediately notified to the Central Authority of Food and Veterinary Service and FVS Order No.6 (08.01.2009.)).

4.4.5. *Measures and terms of legislation as regards the different qualifications of animals and herds:*

4.4.6. *Control procedures and in particular rules on the movement of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas concerned⁸:*

4.4.7. *Measures and terms of legislation as regards the control (testing, vaccination, ...) of the disease:*

- On the basis of Law on Veterinary Medicine, FVS prepare annual animal infectious disease surveillance plan, including Rabies determining monitoring tests and amount of vaccine to be distributed in wildlife area.

All measures are carried out on basis of following documents:

- Regulation of Cabinet of Ministers No 178, 23 February, 2010 “Order of rabies eradication and control”
- Food and Veterinary Service Instruction Order No 51 (28 March, 2011) “Program on prophylaxis and eradication of Rabies”

Both documents regulate Rabies control measures when rabies is suspected or confirmed

Regarding oral vaccination of wildlife, there is Animal Infectious Disease State Surveillance Program, approved annually by CVO, where Chapter on oral vaccination is included. Program defines area to be vaccinated, number of vaccine baits and campaigns per year, as well as efficiency evaluation of vaccination campaigns.

Oral vaccination programme in Belarus territory (buffer zone – 10 850 km²) is included in this programme.

⁸ A short description of the control procedures and in particular rules on the movement of animals liable to be affected or contaminated by a given disease and the regular inspection of the holdings or areas is provided.

General description of the costs and benefits⁹:

Total costs of the programme for Latvia per year are **1 567 283.2** Euro. The general purpose of the programme is to eradicate Rabies in wild population (foxes and racoon dogs) by oral vaccination in the whole territory of Latvia (64 635 km²) twice a year. Vaccine baits will be distributed from airplanes with distance between flight lines 500.

Total amount of vaccine baits to be used in 2013 is **3 200 000** distributed in two campaigns (spring and autumn).

Total costs of the programme for Belarus for 2013 are **542 857, 00** Euro. The purpose of the programme is to eradicate Rabies in wildlife (foxes and racoon dogs) by oral vaccination in the buffer zone (Verkhnedvinsk, Ushachi, Docshitci, Glubokoe, Miory, Polotsk, Rossony, Sharkovshchina regions) in Belarus. Vaccine baits will be distributed from airplanes with distance between flight lines 1000 meters twice a year. Approximate area of buffer zone is 10850 km².

Total amount of vaccine baits to be used in 2013 is **542 500** distributed in two campaigns (spring and autumn).

⁹ A description is provided of all costs for the authorities and society and the benefits for farmers and society in general.

6. Stratified data on surveillance and laboratory tests

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

Description of the used virological tests: Fluorescent antibody test, OIE Manual,2004, chapter 2.2.5.B.1.c),i), p.331;

Mouse inoculation test; OIE Manual,2004, chapter 2.2.5.B.1.c),i), p.331.

..... Virus isolation in cell cultures

2002

Animal species ^(c)	Serological tests		Virological tests		Other tests	
	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)
horses			6	4		
cows			51	22		
dogs			194	31		
cats			161	32		
fur animals			2	-		
wild animals			774	411		
others			9	-		
Total			1197	500		

2003

Animal species ^(c)	Serological tests		Virological tests		Other tests	
	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)
horses			3	-		
cows			58	20		
dogs			302	63		
cats			243	52		
foxes			725	474		
raccoon dogs			412	284		
badger			54	32		
ferrets			40	10		
marten			42	14		
beaver			18	5		
roe			16	5		
fur animals			5	1		
wild animals			22	3		
others			5	1		
Total			1945	964		

2004

Animal species ^(c)	Serological tests		Virological tests		Other tests	
	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)
horses			2	-		
cows			52	25		
dogs			174	33		
cats			198	35		
foxes			409	181		
raccoon dogs			231	143		
badger			16	10		
ferrets			12	3		
marten			29	3		
beaver			5	1		
roe			36	8		
fur animals			5	-		
wild animals			13	-		
others			24	1		
Total			1206	443		

2005

Animal species ^(c)	Serological tests		Virological tests		Other tests	
	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)
horses			2	1		
cows			42	17		
dogs			157	20		
cats			170	29		
foxes			402	176		
raccoon dogs			222	137		
badger			21	13		
ferrets			16	5		
marten			24	9		
beaver			11	2		
roe			38	7		
other wild animals			28	4		
others			7	1		
Total			1140	421		

- (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

2006

Animal species ^(c)	Serological tests		Virological tests		Other tests	
	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)
cows			-	13		
dogs			-	31		
cats			-	44		
foxes			-	187		
raccoon dogs			-	153		
other wild animals			-	43		
Total			1045	471		

- (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

2007

Animal species ^(c)	Serological tests		Virological tests		Other tests	
	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)
horses			2	0		
cows			16	5		
dogs			133	25		
cats			192	27		
foxes			305	95		
raccoon dogs			134	33		
badger			15	3		
ferrets			26	5		
marten			30	4		
mink			12	1		
roe			39	1		
other wild animals			28	3		
Domestic animals			3	0		
Total			935	202		

- (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

2008

Animal species ^(c)	Serological tests		Virological tests		Other tests	
	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)
cows			28	6		
dogs			122	8		
cats			151	6		
foxes			390	44		
raccoon dogs			156	41		
badger			14	1		
wolf			2	1		
marten			14	1		
beaver			6	1		
otter			3	1		
Total			980	110		

- (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

2009

Animal species ^(c)	Serological tests		Virological tests		Other tests	
	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)
dogs			73	7		
cats			88	4		
foxes			302	24		
raccoon dogs			138	24		
badger			11	8		
polecat			11	1		
roe deer			26	1		
Total			716	69		

2010

Animal species ^(c)	Serological tests		Virological tests		Other tests	
	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)
dogs			52	2		
foxes			1361	11		
raccoon dogs			746	1		
badger			8	1		
deer			2	1		
Total			2169	16		

2011

Animal species ^(c)	Serological tests		Virological tests		Other tests	
	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)	Number of samples tested ^(d)	Number of positive samples ^(e)
FOX			865	0		
RACON DOG			1003	0		
DOG			46	0		
CAT			50	0		
WILD BOAR			2	0		
MARTEN			8	0		
POLECAT			5	0		
CATTLE			14	0		
BADGER			4	0		
BEAVER			1	0		
RAT			1	0		
ROE DEER			6	0		
DEER			1	0		
HORSE			2	1		
LYNX			1	0		
SHEEP			2	0		
MINK			1	0		
GOAT			1	0		
HEDGEHOG			1	0		
GUINEA PIG			1	0		
HAMSTER			1	0		
WOLF			1	0		
Total			2017	1		

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

Year: 1999-2010

Disease^(a): Rabies

Animal species: Domestic and wildlife animals

Latvia	Number of herds infected ^(c)	Number of animals infected
1999	-	169
2000	-	516
2001	-	477
2002	-	500
2003	-	964
2004	-	443
2005	-	421
2006	-	471
2007	-	202
2008	-	110
2009	-	69
2010	-	16
2011	-	1

(a) Disease and animal species if necessary.

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

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

Rabies cases in (Verkhnedvinsk, Ushachi, Docshitci, Glubokoe, Miory, Polotsk, Rossony, Sharkovshchina regions) in Belorussia (2006 – 2011).

Animal species	Number of infected animals					
	2006	2007	2008	2009	2010	2011
cows	8	3	1	1	0	0
dogs	14	2	4	9	3	1
cats	5	1	2	4	2	4
horses	2	0	0	0	1	1
other	1	0	0	0	1	0
foxes	11	12	3	4	2	7
raccoon dogs	14	1	1	4	4	7
marten	3	1	0	1	0	0
elk	0	1	0	1	0	0
Total	58	21	11	24	13	20

6.3. Data on wildlife¹⁰

6.3.1. Estimation of wildlife population

Data on wildlife population is obtained from State Forest Service.

Year: 1999-2009

Method of estimation^(a):

Latvia	Estimation of the population of the concerned wild species			
	Species: Foxes	Species: Raccoon dogs	Species: Wolves	Species: Bobcats
1999	26177	11740	572	671
2000	27649	12657	544	648
2001	29083	14022	473	667
2002	30044	15096	566	750
2003	28713	15901	673	765
2004	30893	17258	603	824
2005	32294	19384	588	1006
2006	33064	20156	550	863
2007	32173	21870	665	980
2008	34864	24568	816	1326
2009	34039	26934	917	1553
2010	33405	28800	967	1681

Latvia	Estimation of the population of the concerned wild species			
	Species: Badgers	Species: Martens	Species: Minks	Species: Otters
1999	8062	18566	15353	6746
2000	8291	20470	16486	7035
2001	8852	21880	17979	7766
2002	9364	22902	19065	8194
2003	9795	No data	18388	7733

¹⁰ 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.

2004	10771	22532	20440	8784
2005	10586	21614	22655	8899
2006	10518	21975	23100	8585
2007	10699	21547	22469	9197
2008	11483	22685	23042	-
2009	12381	23565	23847	-
2010	12512	26240	23967	-

Latvia	Estimation of the population of the concerned wild species			
	Species: Beavers	Species: Polecats	Species: Roes	Species: Elks
1999	42614	6591	55551	10595
2000	45706	7487	68183	11873
2001	51934	8932	79622	13229
2002	54684	9941	95098	14218
2003	62138	9600	110759	13793
2004	66886	11066	129576	14494
2005	73502	12284	150120	14498
2006	77474	11660	195841	14488
2007	82277	12145	225851	14409
2008	89474	11798	240204	15004
2009	86915	11687	186340	16430
2010	82750	12406	141015	17509

- (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

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

Year: 2001-2010

Disease^(a): Rabies

Animal species: Foxes and racoon dogs

Description of the other used tests:

In 2005 tests for detection of antibody level: ¹FAVN and ELISA² (samples considered positive if antibody level \geq 0,5 IU/ml). In 2006 only ELISA test was used to detect antibody level (seroconversion).

³Detection of tetracycline in mandible tissue using luminescent microscopy (samples collected from animals hunted in vaccinated territory).

⁴Fluorescent antibody tests (samples collected from animals hunted in vaccinated territory).

Regarding vaccination efficiency control after campaigns in 2011 – samples were collected in from 4 June till 29 July and during period from 6 October 2011 till 31 March 2012 (Data in table below for 2011 are given taking into account results received until 31 December, 2011).

Latvia	Microbiological or virological tests ⁴		Serological tests		Other tests ³	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
2001	-	-	-	-	285	151
2002	-	-	-	-	319	175
2003	-	-	-	-	501	209
2004	-	-	-	-	257	98
2005	-	-	509 ¹ / 1219 ²	216 ¹ / 176 ²	1678	901
2006	737	11	731	341	736	620
2007	4579	28	4621	2176	4628	3392
2008	3273	9	3291	1648	3303	2449

2009	825	3	3140	1587	3143	2265
2010	2274	0	1940	1410	1949	1686
2011	1532	0	1534	1020	1536	1276

(a) Disease and species if necessary

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

6.3.3. *Data on vaccination or treatment of wildlife*

Year: 1999-2010

Disease^(a): Rabies

Animal species: foxes and racoon dogs

Description of the used vaccination scheme: Rabies oral vaccine baits were distributed manually near the fox's caverns till 2003. In 2005 and 2006 baits were distributed using airplanes and helicopters. Distance between flights lines was 1 km. Vaccines were distributed during two campaigns (spring and autumn). In 2009 autumn campaign for territories in 27 150 km² and in 2010 autumn campaign for territories in 32000 km² lines between flights were reduced to 500 meters. Since 2011 flight lines were reduced till 500 meters for all country.

Latvia	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
1998 (Vaccination was not carried out in all territory of Latvia)	*	56100	2	56100
1999 (Vaccination was not carried out in all territory of Latvia)	*	60000	2	60000
2000 (Vaccination was not carried out in all territory of Latvia)	*	89000	2	89000
2001	*	310000	2	310000
2002	*	300000	2	300000
2003	*	300000	2	300000
2004	0	0	0	0
2005	28000	1247200	2	1247200
2006	64000	3372000	2	3372000
2007	64000	3 351 600	2	3 351 600
2008	49326	919 200	1	919 200
2009	64000	2 980 800	2	2 980 800
2010	64000	3 200 000	2	3 200 000

2011	64000	2 700 000	2	2 700 000
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

7.1.1. Targets on diagnostic tests

7.1.1.1. Number and specification of tests

Disease^(a): RABIES

Animal species: Foxes and raccoon dogs

Period 2013

<i>Region^(b)</i>	<i>Type of the test^(c)</i>	<i>Target population^(d)</i>	<i>Type of sample^(e)</i>	<i>Objective^(f)</i>	<i>Number of planned tests</i>
Latvia	Biorad Enzyme-linked immunosorbent assay (ELISA)	Foxes and raccoon dogs	Serum	Efficiency of vaccination campaign	2560
	Detection of tetracycline in mandible tissue using luminescent microscopy	Foxes and raccoon dogs	Mandible	Efficiency of vaccination campaign	2560
	Fluorescent antibody test (FAT)	All susceptible species	Brain tissue	Virus detection	550
	Titration vaccines baits	---	Vaccine bait	Verification of virus titration before distribution	18
Total					5688

Period 2013

<i>Region^(b)</i>	<i>Type of the test^(c)</i>	<i>Target population^(d)</i>	<i>Type of sample^(e)</i>	<i>Objective^(f)</i>	<i>Number of planned tests</i>
Belorussia	Biorad Enzyme-linked immunosorbent assay (ELISA) or FAVN	Foxes and raccoon dogs	Serum	Efficiency of vaccination campaign	434
	Detection of tetracycline in mandible tissue using luminescent microscopy	Foxes and raccoon dogs	Mandible	Efficiency of vaccination campaign	434
	Fluorescent antibody test (FAT)	All susceptible species	Brain tissue	Virus detection	500
Total					1368

7.1.1.2. Testing scheme(s)¹¹:

According to Order, issued by Chief Veterinary Officer, determining number of samples and area where to collect animals for investigation.

Efficiency of vaccination campaigns is evaluated in all regions where vaccines are distributed and 4 animals per 100 km² should be submitted to laboratory for testing. Samples are collected in collaboration with hunters and FVS territorial units are responsible for receiving and sending of samples to the laboratory.

7.2. Targets on vaccination or treatment¹² of wildlife

Disease^(a): Rabies

Animal species: Foxes and racoon dogs

It is planned to distribute vaccine baits evenly in all country, distance between flights for next two years will be 500 meters.

Period 2013

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
Latvia	64635 km ²	1 600 000	2	3 200 000
Total	64635 km²	1 600 000	2	3 200 000

It is planned to distribute vaccine baits in Verkhnedvinsk, Ushachi, Docshitci, Glubokoe, Miory, Polotsk, Rossony, Sharkovshchina regions in Belorussia for territories 10850 km². Distance between flights will be 1000 meters.

¹¹ Describe the testing scheme according the different categories if appropriate (which herds and animals, the number of animals per herd, the frequency and the interval of sampling) with reference to the national and Community legislation where appropriate.

¹² 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.

Period 2013

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
Belarus	10 850 km ²	271 250	2	542 500
Total	10 850 km²	271 250	2	542 500

(a) Disease and species if necessary

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

7.3 Detailed analysis of the cost of the programme for Latvia¹³ Period 2013.

<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>
1. Testing					
1.1. Cost of the analysis	<i>Test:</i> BIORAD ELISA	2560	16.9	43264.0	Yes
	<i>Test:</i> Detection of tetracycline in mandible	2560	12.2	31232.0	Yes
	<i>Test:</i> Fluorescent antibody test (FAT)	550	16.12	8866.0	Yes
	<i>Test:</i> Titration of vaccine baits	18	146.68	2640.2	Yes
1.2. Cost of sampling	Sampling	3110	7.1	22081.0	Yes
1.3. Other costs	Hunting and delivery costs (foxes and raccoon dogs)	2560	10.0	25 600	No
2. Vaccination or treatment					
2.1. Purchase of vaccine/treatment	Vaccine baits	3200000	0.22	704000.0	Yes
2.2. Distribution costs	Vaccine aerial distribution	128000	5.7	729600.0	Yes
2.3. Administering costs					
2.4. Control costs					
3. Slaughter and destruction					
3.1. Compensation of animals					
3.2. Transport costs					

¹³ Fixed costs should not be included. All amounts are VAT excluded.

<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>					
<i>4. Cleaning and disinfection</i>					
<i>5. Salaries (staff contracted for the programme only)</i>					
<i>6. Consumables and specific equipment</i>					
<i>7. Other costs</i>					
TOTAL					1 567 283.2

Detailed analysis of the cost of the programme for Belorussia Period 2013.

<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>
1. Testing					
1.1. Cost of the analysis	<i>Test:</i> BIORAD ELISA of FAVN	434	18	7812	No
	<i>Test:</i> Detection of tetracycline in mandible	434	12	5208	No
	<i>Test:</i> Fluorescent antibody test (FAT)	500	12	6000	No
	<i>Test:</i> Titration of vaccine baits	4	143	572	No
1.2. Cost of sampling	Sampling	500	7.1	3550	No
1.3. Other costs	Hunting and delivery costs (foxes and raccoon dogs)	434	10	4340	No
2. Vaccination or treatment					
2.1. Purchase of vaccine/treatment	Vaccine baits	542 500	0,60	325 500	Yes
2.2. Distribution costs	Vaccine aerial distribution	21 700 km ²	8,75	189 875	Yes
2.3. Administering costs					
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					
5. Salaries (staff contracted for the programme only)					
6. Consumables and specific equipment					
7. Other costs					
TOTAL					542 857,00