



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

SANCO/10403/2009

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

Eradication programme of Rabies

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

Hungary

* in accordance with Council Decision 2009/470/EC



Central Agricultural Office
Animal Health and Animal Welfare Directorate
HUNGARY

**APPLICATION
FOR COMMUNITY CO-FINANCING OF
HUNGARIAN
NATIONAL PROGRAMME FOR THE ERADICATION, CONTROL AND MONITORING
OF
RABIES IN RED FOXES
FOR 2010**

WITH REQUESTED ADDITIONAL INFORMATION - 2

SUBMITTED: 11st SEPTEMBER, 2009

In accordance with Council Decision 90/424/EC of 26 June 1990 on expenditure in the veterinary field,
and
Commission Decisions 2008/425/EC, 2008/341/EC

1. Identification of the programme

Member State: **HUNGARY**

Disease(s) (¹): **RABIES**

Request of Community co-financing for (²): 2010

Reference of this document: 02/982/3/2009.

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Date sent to the Commission: 30.04.2009

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

² Indicate the year(s) for which co-financing is requested

2. Historical data on the epidemiological evolution of the disease(s) (¹):

In Hungary, rabies is a disease subject to an obligatory notification since 1928. At the beginning of the 20th century only the urbanic rabies was present in the country. By the end of the thirties - as a result of the introduction of strict rules for keeping dogs (keeping a record of dogs) and the obligatory immunization of dogs in each year - Hungary was the first country all over the world that became free from urbanic rabies. After the II. World War the country periodically lost its rabies free status. But carrying out consistently the measures against rabies (as before), finally the country became again free from urbanic rabies.

The sylvatic rabies was introduced into Hungary from the north in 1954 and until 1966 it occurred only sporadically eastward from the Danube. In 1967 the disease spread also to Transdanubia. By the end of 1971 the whole country had become infected.

At the beginning the protection against sylvatic rabies was carried out by diminishing the number of red foxes (extermination in burrows with phosgene), but the results were insignificant.

Between 1978 and 1993 the number of rabies cases varied between 880 and 1465 cases/year. Nearly 80 % of the rabies cases were found in red foxes.

In Hungary, the oral vaccination of red foxes started in autumn 1992 on Hungarian state expense, initially with experimentally character in a 5,000 km² area near to the western border of Hungary. Between springs of 1993 and 1996 oral vaccinations were carried out in a 6000 km² area, two times a year. Between autumns of 1996 and 2000 the western part of the country (Transdanubia) was covered by baits. As a result of this procedure rabies is disappeared from Transdanubia by the end of 2000. From 2001 the territory between the river "Duna" (Danube) and the river "Tisza" had been involved in the immunization campaigns, while in Transdanubia only emergency ring vaccinations (within a circle with a radius of 30-50 km) were carried out, around the detected positive cases. In the years 2004, 2005 and 2006 the bait distribution has been extended over the whole country within the scope of a PHARE project (CRIS Number of the project is 2003/004-347-01-03).

Since 2007 the eradication, control and monitoring programme is approved and co-financed by the Community (Commission Decisions: 2006/875/EC, 2007/782/EC and 2008/897/EC). In 2007 the vaccination of the whole territory of the country was continued. From the year 2008 the distribution of the vaccine baits is implemented in certain designated territories of Hungary (Map 7. and Map 8.).

The efficacy of the oral immunization of foxes can be demonstrated by the considerable decrease of rabies cases in the country. In 2005 only 9 cases were found in the whole country, in 2006 only 3, in 2007 only 4, in 2008 only 7 positive cases could be detected (Table 1. and Table 2.).

(¹) 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.

Table 1.: The distribution of rabies cases in Hungary between 1996 and 2008

County	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Bánya (1)	95	37	17	4	2	4	6	7	1	1	0	1	1
Békés (3)	73	47	65	88	96	31	17	5	0	0	0	0	4
Borsod-Abaúj-Zemplén (4)	46	38	51	32	62	22	14	13	10	0	0	0	3
Csongrád (5)	53	64	59	49	81	23	5	6	7	0	0	0	1
Fejér (6)	141	33	4	0	1	0	1	5	0	0	0	0	0
Győr-Moson-Sopron (7)	15	5	3	0	0	1	5	0	0	0	0	0	0
Hajdú-Bihar (8)	56	30	37	51	51	40	21	57	41	4	0	1	1
Heves (9)	38	32	34	16	42	13	3	1	3	0	1	0	0
Jász-Nagykun-Szolnok (10)	19	39	46	6	19	27	20	11	3	0	0	0	0
Komárom-Esztergom (11)	64	10	3	4	0	0	0	0	0	1	0	0	0
Nógrád (12)	42	22	28	24	23	21	3	9	2	0	0	0	0
Pest (13)	119	46	72	48	78	66	7	5	3	1	0	0	0
Somogy (14)	179	49	8	3	1	0	1	3	0	0	0	0	1
Szabolcs-Szatmár-Bereg (15)	65	30	33	12	27	29	9	34	44	1	1	2	0
Tolna (16)	99	21	8	12	0	0	0	3	0	0	1	0	0
Vas (17)	3	2	2	2	1	2	13	5	0	0	0	0	0
Veszprém (18)	59	14	3	1	0	0	4	11	1	0	0	0	0
Zala (19)	36	7	0	0	0	3	2	0	0	0	0	0	0
Budapest (20) - capital of Hungary	22	5	6	4	7	6	2	0	1	0	0	0	0
Total	1357	571	558	398	514	310	160	172	125	9	3	4	7

Table 2. Rabies cases in Hungary between 1996 and 2008 by species

Animal species	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
Domestic animals														
dog	59	21	24	19	24	14	4	3	6	0	0	0	0	0
cat	117	65	69	41	63	42	17	18	5	2	0	1	0	0
cattle	65	22	20	15	25	15	8	18	3	0	1	0	0	0
sheep	1	2	1	1	0	0	1	0	0	0	0	0	0	0
goat	4	1	0	1	0	1	0	0	0	0	0	0	0	0
horse	3	1	5	2	5	1	1	1	0	0	0	0	0	0
other	1	1	0	1	0	0	1	0	1	0	0	0	0	0
Total	250	113	119	80	118	74	31	43	14	2	1	1	1	1
Wild animals														
fox	1082	445	429	310	393	231	122	128	111	7	2	3	3	6
raccoon	0	0	0	0	0	0	0	0	0	0	0	0	0	0
raccoon dog	0	0	0	0	0	1	0	0	0	0	0	0	0	0
bats	0	0	0	1	0	0	0	0	0	0	0	0	0	0
badger	2	0	0	0	0	0	1	0	0	0	0	0	0	0
warren	6	3	4	1	1	1	0	0	0	0	0	0	0	0
wolves	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rodents	1	0	0	0	0	1	0	0	0	0	0	0	0	0
other	16	10	6	6	2	2	5	1	0	0	0	0	0	0
Total	1107	458	439	318	396	236	129	129	111	7	2	3	6	
Altogether	1357	571	558	398	514	310	160	172	125	9	3	4	7	

3. Description of the submitted programme (1):

3.1. Aim of the submitted programme:

The final aim of the submitted programme is to eradicate (sylvatic) rabies from wild animal (red fox – *Vulpes vulpes*) populations in the whole territory of Hungary, applying measures and methods in accordance with Community legislation.

The occurrences of rabies cases in Hungary – comparing to 2004 and the years before – are significantly decreased in the last years: in 2006 only 3, in 2007 only 4, in 2008 only 7 cases were detected (*Table 1.* and *Table 2.*). From the year 2008 the distribution of the vaccine baits is implemented in certain designated territories of Hungary (*Map 7.* and *Map 8.*).

In 2010 Hungary intends to continue the programme as it is written below.

Rabies could be introduced by red foxes arising from the surrounding countries. Relating to the information we have, Slovenia, Austria and Slovakia have approved vaccination programmes, so to introduce rabies from the north, seems to be unlikely. It is more important to focus the vaccination campaigns on the other borders, as Croatia, Serbia, Ukraine and Romania do not immunize red foxes against rabies (Romania is commenced oral vaccination campaigns only from 2008 by manual distribution of baits).

In accordance with the Hungarian national legislation a county could be considered free from rabies if there is no occurrence of rabies (in animals and in humans as well) for two consecutive years. In this case vaccination should be continued for two more years since the last confirmed case on the territory of the county. In case of reinfection, in a circle with 50 km radius around the place of confirmation, revaccination should be carried out. In 2008 the vaccination in Hungary was carried out in the territories bordering Slovenia, Croatia, Serbia, Ukraine and Romania. From spring 2009 the territory of vaccination was slightly modified and Hungary intends to distribute the vaccine baits in 2010 on the same territories. Despite of our presumption in 2008 there was one rabies case detected in north part of the country, namely in County Borsod-Abaúj-Zemplén. Taking into consideration this fact since spring of 2009 Hungary vaccinates the eastern territory of this county from river "Sajó" as well. On the east, in County Szabolcs-Szatmár-Bereg and County Hajdú-Bihar – where more rabies cases were detected in the past – the vaccination of the whole territory of these counties intends to be continued. On the southern border of the country, in Counties Békés, Csongrád and Bács-Kiskun, the distribution of the baits intends to be carried out within the 50 km buffer zone from the border of the country. The southern part of Transdanubia (where red fox density is higher) intends to be vaccinated as follows. However Slovenia has approved vaccination programme, Hungary intends to vaccinate in County Vas within the 50 km buffer zone near to the Slovenian border. In County Zala, only the 50 km buffer zone from the border intends to be vaccinated. In County Baranya the whole territory intends to be involved in the campaigns. Basically at the south part of Transdanubia Hungary intends to vaccinate the 50 km buffer zone from the border as well. This area is extended with the area of the 50 km zone surrounded "Mernye" (found in County Somogy), as there was a rabies case confirmed in 2008. This means that the whole territories of Counties Somogy and Baranya, and the southern west part of County Fejér intends to be vaccinated. Hungary intends to vaccinate in County Tolna the areas southern from a "logical line" which connects the margin of the 50 km circle surrounded "Mernye" at the north border of County Tolna and the line of the 50 km buffer zone from the border of the country at the east border of County Tolna.

¹ 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.

3.2. Legal background:

The number and the title of Hungarian national pieces of legislation could be found in the list below, with a link to the current Hungarian version of their texts.

General rules on animal health aspects:

- Hungarian Act N° XLVI of 2008 on the Food Chain and its Official Control, issued on 28th June 2008 (AFCOC)
(http://net.jogtar.hu/jrf/gen/hiegy_doc.cgi?docid=A0800046.1.V)
(Previously there was in force Hungarian Act N° CLXXVI of 2005 on Animal Health, issued on 28th December 2005)

Rules on obligatory notification of animal diseases:

- Decree N° 113/2008 of Ministry of Agriculture and Rural Development (MARD) on the order of the notification of animal diseases, issued on 30th August 2008
(http://net.jogtar.hu/jrf/gen/hiegy_doc.cgi?docid=A0800113.PVM)

Detailed rules on rabies relating to domestic and wild animals:

- Decree N° 164/2008 of the MARD on detailed rules of the protection against rabies, issued on 20th December 2008
(http://net.jogtar.hu/jrf/gen/hiegy_doc.cgi?docid=A0800164.PVM)
(Previously there was in force Decree N° 13/2002 of the MARD on the vaccination of foxes against rabies, issued on 30th January in 2002)
- Decree N° 4/1997 of Ministry of Agriculture (MA) on Animal Health Code (AHC), issued on 28th May 1997
(domestic animals: Article 15, paragraph (3); Article 193., paragraph (1) and (2); Article 796, paragraph (6), wild animals: Article 217., paragraph (5))
(http://net.jogtar.hu/jrf/gen/hiegy_doc.cgi?docid=99700041.PM)
- Decree N° 81/2002 of MARD on veterinary duties in the prevention of zoonoses, issued on 4th September in 2002
(http://net.jogtar.hu/jrf/gen/hiegy_doc.cgi?docid=A0200081.PVM)

Detailed Rules on Veterinary Medicinal Products (e.g.: vaccines)

- Decree N° 56/2006 of the MARD on veterinary medical products, issued on 28th June 2006
(http://net.jogtar.hu/jrf/gen/hiegy_doc.cgi?docid=A0600050.PVM)

3.3. Actions taken between 2000 and 2008 (relevant costs see under point 5.)

Descriptions below refer to the ongoing programme in 2009, and there is an intention to continue the programme in 2010 along the mentioned viewpoints as well.

Oral vaccination two times a year:

- spring - April
- autumn - October

Type and number of vaccine baits

distributed: see under point 3.3. - *Table 3*.

Distribution of vaccine baits: - Via fixed-wing airplanes (since 2003 different types of CLSNA airplanes are used):

Atrial distribution is the main method for distribution:

- o density = 20 baits/km² (gross);
- o GPS is used for flying navigation and for to define the exact places of dropping each vaccines;
- o on the airplane the vaccine dropping machine is controlled by a computer connected with GPS;
- o flying lines and the places of each dropped vaccines are recorded by a computer (connected with the GPS system) and (could be) printed out on maps;
- o distance between flying lines is usually 1000 m. the flying speed is usually between 100 and 120 km/h;
- o in each new campaign flying lines are rotated with 90° compared to the lines of the previous campaign;
- o In County Fejér in the years 2003, 2004 and 2005 on the plain of "Déz" and "Mezőkomárom" rabies was detected. From autumn 2005 till autumn 2006 inside a square area bordered by settlements called "Enying", "Kálos", "Sárges", "Szabadhídvég", 500 m flying density was applied. Since 2006 no rabies case was detected in this region.

- Manual distribution:

Manual distribution is used where flying is not allowed or where more targeted distribution is needed (i.e. around the shores of lake Balaton, the districts of the capital (Budapest), oil and power plants and railway transfer zones) manual distribution is carried out by qualified wildlife biologists. The density of baiting is 20 baits/km² with the exception of the area around Budapest, where 60 baits/km² were distributed.

Monitoring:

The efficiency of oral vaccination shall be monitored – beside the registration of the occurred cases - by laboratory methods. According to the Hungarian national legislation adult red fox samples should be collected. Since 2007 at least eight adult red foxes per 100 km² shall be shot for diagnostic purposes and shall be handed over to the designated animal health institutes ("Budapest", "Debrecen" or "Kaposvár") per year.

Even though since 2008 the distribution of the baits is limited to certain regions of the country described in point 3.1., in *Table 3* and in point 4.3., the sampling for monitoring still refers to the whole territory of the country.

Table 3.: Type and number of vaccine baits distributed

Year	Names of the regions vaccinated	Km ² vaccinated	Type and Number of baits used	No of foxes to be tested/prescribed in the contracts
2000	Transdanubia	2 x 37.454 km ² = 74.900 km ²	Rabifox: 1.520.000	1.870
2001	Between the Danube and the Tisza + 5 baustes at Transdanubia - manual: Paks and KFKI	2 x 36.918 km ² = 73.836 km ²	Rabifox: 1.540.000	1.846
2002	Between the Danube and the Tisza + 7 baustes at Transdanubia + manual: Paks, Bp. and KFKI	2 x 40.293 km ² = 80.586 km ²	Rabifox: 1.560.000	2.014
2003	Between the Danube and the Tisza + 19 baustes at Transdanubia + manual: Paks, Bp. and KFKI	45.700 + 46.780 km ² = 92.480 km ²	Rabifox: 1.975.100	2.174
2004	The whole country	2 x 93.030 km ² = 186.060 km ²	Rabifox: 3.720.000	4.650
2005	The whole country	2 x 93.030 km ² = 186.060 km ²	Rabifox: 3.720.000	4.650
2006	The whole country	2 x 93.030 km ² = 186.060 km ²	Euchisoral: 3.720.000	4.650
2007	The whole country	2 x 93.030 km ² = 186.060 km ²	Euchisoral: 3.720.000	7440
2008	County Szabolcs-Szatmár-Bereg, Hajdú-Bihar, Baranya, Somogy, Tolna: the whole territory County Békés, Csongrád, Bács-Kiskun, Zala: within the 50 km buffer zone from the border of the country County Fejér: south of the M7 motorway County Vas: within the 50 km buffer zone from the Hungarian-Slovenian border	2 x 45.000 km ² = 90.000 km ²	Liswulpen: 1.800.000	7441
2009 (ongoing)	County Szabolcs-Szatmár-Bereg, Hajdú-Bihar, Baranya, Somogy: the whole territory County Békés, Csongrád, Bács-Kiskun, Zala: within the 50 km buffer zone from the border of the country County Borsod-Abaúj-Zemplén: the eastern territory from river "Tisza" County Fejér: within the territory of the 50 km zone surrounded "Merrymege" County Vas: within the 50 km buffer zone from the Hungarian-Slovenian border	2 x 46.333 km ² = 92.666 km ²	Liswulpen: 1.854.000	7442

Rabies – for 2010 – requested add. inf. to point 4.4 are included (11th September, 2009)

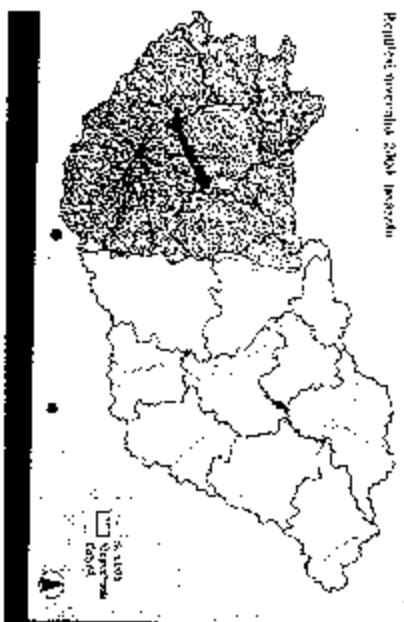
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Hungary

Maps 1-6.: Vaccinated areas and flying lines between 2000 - 2007

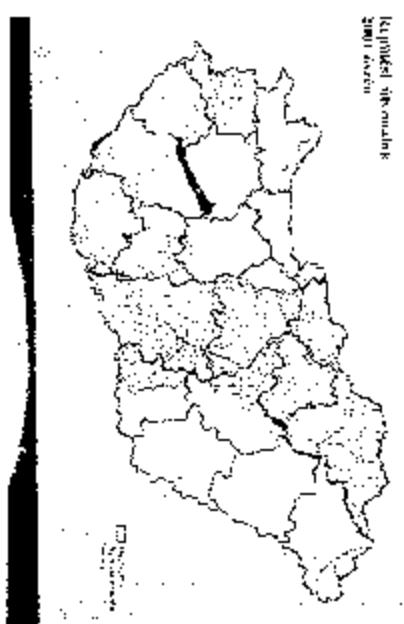
2000: spring and autumn

Régiók: összesítés 2000 őszén



2001: spring and autumn

Iránytérkép összesítés 2001 őszén



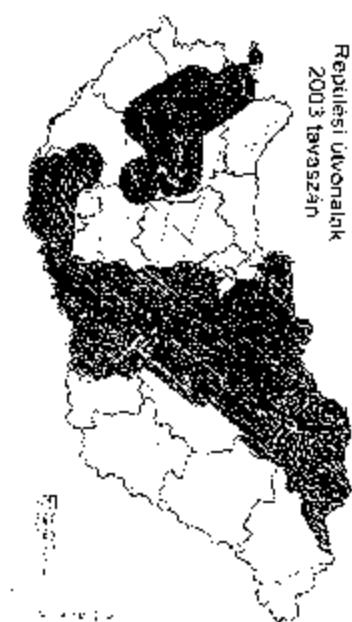
2002: spring and autumn

Törzsközpontok 2002 őszén



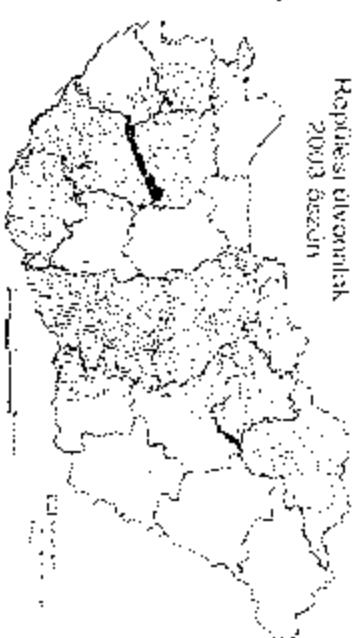
2003: spring

Régiók: összesítés 2003 tavaszán



2003: autumn

Régiók: összesítés 2003 őszén

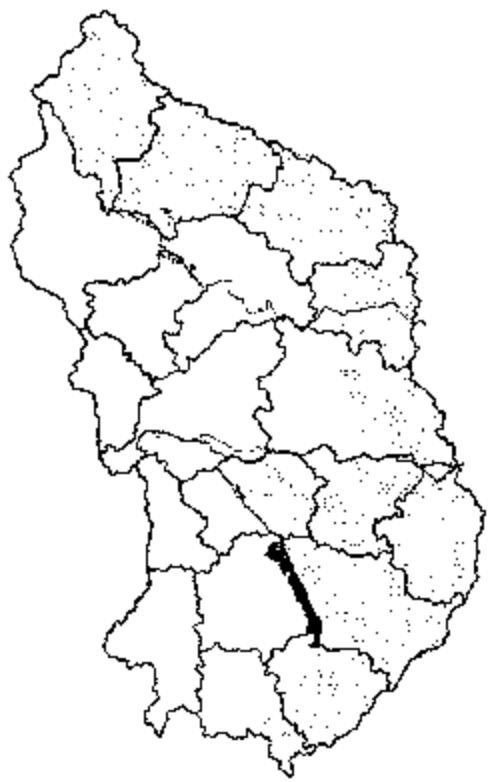


2004-2007: spring and autumn

Törzsközpontok összesítés 2008 őszén



Map 7.: Areas vaccinated in 2008 (spring and autumn) - signed with orange colour



Map 8.: Areas vaccinated in 2009 (spring and autumn) - signed with red colour - ongoing programme



3.4. Applied diagnostics and testing methods:

Routine diagnostics of rabies in all animal species is carried out in three laboratories (a central one in Budapest, and two regional ones in Debrecen and in Kaposvár) of the Veterinary Diagnostic Directorate (VDD) of the Central Agricultural Office.

Applied tests:

- direct immunofluorescence (IF) of imprints of the brain with a monovalent anti-nucleocapside conjugate,
 - isolation of the virus in mice,
 - isolation of the virus in the neuroblastoma cells cultures,
 - serological (IgG-ISA) test (this test is carried out only in Budapest).
- The monitoring tests on the efficiency of the oral immunization of foxes are also carried out in the laboratories of the VDD via the following methods:
- direct immunofluorescence (IF) of imprints of the brain – test for confirmation of rabies,
 - bone polishing of the teeth – test for the presence of biomarker tetracyclines, test for bait uptake
 - RFTT determination of the titre of antibodies of the rabies' virus in the blood serum (a clot from the heart or liquid from the chest) – test for immunisation
 - collecting, handling and analysing of epidemiological data on diagnosed cases of rabies.

3.5. Plans for the future:

In 2010 Hungary intends to implement oral vaccination near to the borders of Slovenia, Croatia, Serbia, Romania and Ukraine in a minimum 50 km wide zone and simultaneously intends to apply emergency ring oral vaccination where positive rabies cases are detected (radius of the circle is min. 50 km around the detected positive case).

The final aim of the submitted programme is to eradicate (sylvatic) rabies from red fox - *Vulpes vulpes* populations in the whole territory of Hungary, applying measures and methods in accordance with Community legislation.

4. Measures of the submitted programme

4.1. Summary of measures under the programme programme for red foxes (*Vulpes vulpes*)

Duration of the programme:

First year: 1992

Last year: until complete eradication of rabies from red fox - *Vulpes vulpes* populations in the territory of Hungary

Control

Testing

- Slaughter of animals tested positive
- Killing of animals tested positive

Vaccination

- Treatment

Disposal of products

Eradication, control or monitoring

Eradication

Testing

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

Other measures (specify):

4.2. Organisation, supervision and role of all stakeholders () involved in the programme

1. National authorities

1.1 Central Agricultural Office

a.) Animal Health and Animal Welfare Directorate

Animal Health Division

- Determines the date and territorial expansion of the immunization
- Keeps contact with the counties, the different national authorities (hunting authority, public health authority, disaster management), with the Ministries of other countries and with the EU Institutes
- Controls the implementation of the programme
- Coordinates and supervises the implementation procedures carried out by the

- Central Agricultural Office, Veterinary Medicinal Products Directorate

▪ Responsible for: - registration and testing of vaccines

- organisation of public procurements related to the eradication programme
- supervising the implementation of the programme

▪ The national coordinator of the implementation of the programme is appointed from this Directorate.

- Central Agricultural Office, Veterinary Diagnostics Directorate (3 laboratories)

▪ Have responsibility for carrying out laboratory tests

- The central laboratory in Budapest is the National Reference Laboratory (NRL)

Testing is also carried out in the two regional laboratories in Debrecen and in Kaposvár

- County Agricultural Office, Food Chain Safety and Animal Health Directorate (in all 19 counties)

- Prescribes restriction on movements of dogs and prohibits of grazing during the vaccination campaigns in accordance with national legislation
- Official veterinarians supervise the cold storages of vaccines and the airports
- Organizes the collection of fox samples from the hunters
- Determines for each hunting association the number of foxes should be shot in a year
- Imposes penalties on hunting associations handed over less number of fox samples prescribed

() 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.

- b) Central Agricultural Office
 - Agricultural Directorate
 - Hunting and Fishing Division
 - Informs the hunting authorities in the counties about the programme and their duties
 - Cooperates with the Animal Health and Animal Welfare Directorate

County Agricultural Office, Agriculture Directorate, Hunting and Fishing Division (in all 19 counties)

- Informs the hunters about their duties
 - Contributes in determination for each hunting association the number of foxes should be shot in a year

Hunting associations

- Responsible to inform the inhabitants via information materials get from the contracted business company and used on the hunting area and at local governments of the hunting area
 - To shot and hand over fox samples to the animal health authority

1.2. Ministry of Agriculture and Rural Development

- a) Food Chain Control Department
- Animal Health Division

- Responsible for Hungarian legislation on animal health issues (e.g.: on rabies)

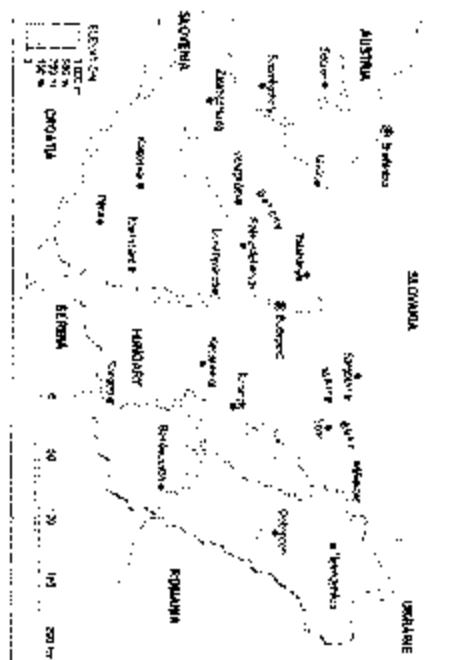
b) Natural Resources Department
Hunting, Fishing and Management of Water Supplies Division

- Responsible for Hungarian legislation on hunting
 - Coordinates and supervises the implementation procedures carried out by the hunting authority

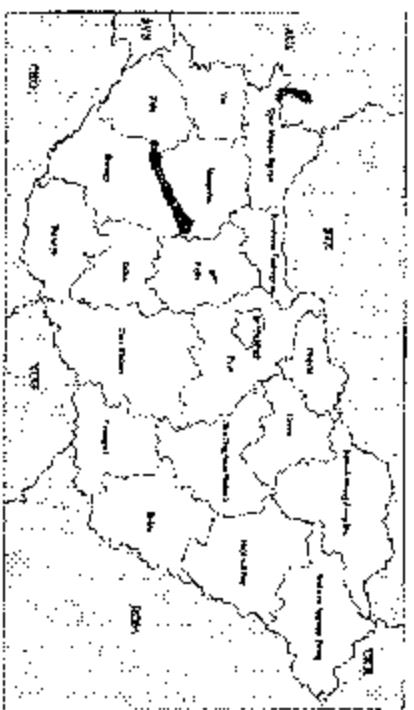
- 2. Business companies**
- a.) To produce vaccine baits
 - b.) To distribute vaccine baits (organising the whole vaccination campaign: holding informative meetings for the stakeholders before each campaign in each vaccinated counties, handing over information materials to the hunters and for the inhabitants, handing over sampling equipments to the hunters, to pay compensation to the hunting associations for handling over of fox samples.)

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

Map 9.: Geographic map of Hungary



Map 10.: Administrative borders of Hungary and the Hungarian counties



- (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.

Rabies for 2010 requested add. inf. to point 4.4 are included (11th September, 2009)

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Hungary is surrounded by 7 countries (Austria, Slovakia, Ukraine, Romania, Serbia, Croatia and Slovenia). The country is divided into western (Transdanubia) and eastern Hungary by the river "Duna" (Danube). There are altogether 19 counties in the country. The name of the capital is Budapest.

Distribution of vaccine baits is not carried out in the urban areas (town, villages, etc.), in the areas of water (lakes, rivers, etc.), areas of public roads (roads, highways, etc.) and railways. In case of aerial distribution this can be provided and controlled by using GPS for flying navigation and for to define the exact places of dropping each vaccine baits (see point 3.3. as well).

Table 4.: Territories of counties intended to be vaccinated in 2010. (See point 3.1. and Map 11. as well).

Name of the county	Area of vaccination	Area of vaccination (km ²)
Baranya	The whole territory	4 430
Bács-Kiskun	Within the 50 km buffer zone from the country border	4 145
Békés	Within the 50 km buffer zone from the country border	4 829
Borsod-Abaúj-Zemplén	East part of the county from river "Sajó"	4 667
Csongrád	Within the 50 km buffer zone from the country border	3 536
Fehér	West southern part inside the 50 km zone around "Mecsek"	53
Hajdú-Bihar	The whole territory	6 209
Somogy	The whole territory (without the territory of lake "Balaton")	5 781
Szabolcs-Szatmár-Bereg	The whole territory	5 933
Tolna	The whole territory	2 980
Vas	Within the 50 km buffer zone from the country border	717
Zala	Within the 50 km buffer zone from the country border	3 053
Total:		46 333

The area planned to be vaccinated in 2010 is the same area having vaccinated during the ongoing programme in 2009. In case of having confirmed positive rabies case(s) on the non-vaccinated area or near to its border during the year 2009, the area planned to be vaccinated in 2010 would be modified in accordance with the decision of the responsible Hungarian competent authorities (see under point 4.4.11. "evaluation meeting"). In case of detecting positive case in the non-vaccinated area emergency vaccination is intended to be carried out in (a) circle(s) with a min. 50 km radius around the detected positive case(s).

Map 11.: Area planned to be vaccinated in 2010 (spring and autumn) signed with red colour



4.4. Description of the measures of the programme⁷:

As the measures of the programme for the eradication, control and monitoring of (sylvatic) rabies in red foxes is only a part of the measures of the eradication programme of rabies in Hungary, in some points measures relating to domestic animals and animals kept in captivity are also mentioned below. (Hungary is free from urbanic rabies and to maintain this situation there are lot of measurements in force, prescribed in national legislation concerning to domestic animals and animals kept in captivity.)

Below could be found mainly references on Hungarian legislation in force. Only the original (Hungarian) version of the referred articles is authentic (Hungarian versions could be reach through reference links under point 3.2.) As there are many pieces of national legislation in force concerning rabies (see point 3.2.) and there are lot of references included inside them, the measures mentioned below may not cover all the measurements in force. If it is requested official translated versions of the relevant pieces of the Hungarian national legislation will be provided.

In this programme under some point not official translations of the relevant articles of the Hungarian national legislation in force are given.

In this programme under some point summaries (topic) of the relevant articles of the national legislation in force are given.

4.4.1. Notification of the disease:

Rabies in Hungary is a disease subject to obligatory notification.

- Article 18., paragraph (1), point f) and Article 51., paragraph (1) of the Hungarian Act N° XI.VI of 2008 on the Food Chain and its Official Control (AFCOC)

Article 18., paragraph (1): Keepers of animals shall:

- f): notify forthwith the food chain supervisory authority and the private veterinarian of any animal infected with a disease, or suspected to be infected, and shall have the infected or suspected animal examined and, in the case of epizootic animal diseases, carry out the instructions given by the food chain supervisory authority or the private veterinarian for the treatment of the animal or animals in question, or to prevent any further spreading of the disease, and to carry out the obligations prescribed in the emergency measures applied;

Article 51., paragraph (1): The notifiable animal diseases are specified in legislation adopted for the implementation of this Act.

- Article 1., paragraph (3), Article 3, paragraph (5) and Annex 1 of Decree N° 113/2008 of Ministry of Agriculture and Rural Development (MARD) on the order of the notification of animal diseases

⁷ 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.

Article 1., paragraph (3): Annex I contains the notifiable animal diseases.

Article 3., paragraph (5): Who perceive a stray dog, cat or animal living in the wild behaving abnormally, shall notify as well.

Annex I to Decree N° 113/2008 of MARD: Notifiable animal diseases,

Section A: Diseases affecting terrestrial animals

point 35. Rabies

> Article 13. of Decree N° 164/2008 of the MARD on detailed rules of the protection against rabies

Article 13.: Furthermore of the notifying commitments described in the separate legislation concerns the notifiable animal diseases, and of the advising commitments described in Article 18. paragraph (1) point f) of the AFCOC

- a) the percipient must notify to the animal health authority foxes or other wild mammal animals behaving unnaturally, the fact of a cadaver of a dead fox run over by a vehicle or wasted away due to unknown reasons;
- b) the person responsible in accordance with Article 19. of the AFCOC must ensure that animal or unauthorised person could not be able to get at the dead animal until the removing of the cadaver of the dead fox, or rather until the provision of the official veterinarian;
- c) the animal being suspected to be diseased or behaving unnaturally must be quarantine in a place where there is no possibility to have contact with other animals, if the quarantine is possible and could be done without any danger.

> Annex I of Decree N° 81/2002 of MARD on veterinary duties in the prevention of zoonoses

Annex I., Section I.: Notifiable zoonoses

point g) rabies (lyssu)

4.4.2. Target animals and animal population:

> Red foxes (*Vulpes vulpes*). Population data can be found under point 6.6.1.

4.4.3. Identification of animals and registration of holdings: NOT RELEVANT

4.4.4. Qualifications of animals and herds (³): NOT RELEVANT

4.4.5. Rules on the movement of animals:

> Article 51., paragraph (3), points a) - g) and Article 52., paragraph (1) of the AFCOC

³ To mention only if applicable.

These articles prescribe the rules of movement of animals in general – relates rather on domestic animals or on animals kept in captivity

Article 51., paragraph (3): With a view to preventing the introduction and spread of animal diseases, to eradicate infections by such animal diseases and to repair the damage caused, and – consistent with the nature and distribution of animal diseases - to the extent and for the time required for the elimination of any threat, the food chain supervisory authority shall have powers to take the following emergency epidemiological measures in the cases described in legislation adopted for the implementation of this Act and directly applicable Community legislation to the extent and for the time deemed necessary:

- a) isolation;
- b) quarantine for surveillance (official surveillance);
- c) movement restriction;
- d) local quarantine;
- e) restriction on the settlement (protective area);
- f) protection zone (surveillance zone);
- g) prohibition of validation of cattle certificates;

Article 52., paragraph (1): Different emergency epidemiological measures may be imposed collectively.

Article 8., paragraph (5), Article 11., paragraph (1) and Article 17., paragraph (1) of Decree N° 164/2008 of the MARD on detailed rules of the protection against rabies

Article 8., paragraph (5): For 14 days counted from the beginning of the vaccination the competent district veterinarian must to order the closure of the dogs and the prohibition of grazing in the involved areas.
Before every vaccination campaign a letter is send to all Food Chain Safety and Animal Health Directorates of County Agricultural Offices, which contains – among other directions - a direction to make the relevant measures to ensure the closure of the dogs and the prohibition of grazing in the involved areas as it is prescribed in the national legislation.

Article 11., paragraph (1): For the sake of restricting of spreading rabies amongst red foxes, furthermore spreading rabies on other animal species

- a) the minister – for the suggestion of the chief veterinarian officer – may order the increased hunting or decreasing of the number of foxes with another method;
- b) the district veterinarian may order the killing of the dogs straying, not being able to clamp on the hunting area.

Article 17., paragraph (1)...(second sentence): Life of animal straying or living in the wild and suspected being diseased in rabies shall be released, and about this fact the official veterinarian shall be informed immediately.

There are other Articles in Decree № 164/2008 of the MARD containing rules on movement of animals (Article 12. - detailed rules of the closure of dogs, Article 17.: detailed rules on the animals being suspected to be diseased and animals being suspected to be infected with the disease, Article 19.: detailed rules on the observation of the animals being suspected to be diseased and animals being suspected to be infected with the disease), but these articles concern to domestic animals or animals kept in captivity.

4.4.6. Tests used and sampling schemes:

➤ Article 9., paragraphs (1) to (4) of Decree № 164/2008 of the MARD on detailed rules of the protection against rabies Article 9., paragraph (1): The control of the efficiency of the protection – beside the annual surveying of the population of red foxes living in the wild ... shall be carry out for static expense with laboratory methods, which shall be equally cover the certification of the uptake of the vaccine and the detection of rabies.

paragraph (2): After finishing vaccination annually eight adult foxes per 100 km² area shall be shot, which shall be passed to the competent district office of the place of the blastoff by the entitled for hunting, which shall pass the dead foxes to the animal health laboratory designated with the procedure in accordance with laid down in Article 16.

paragraph (3): The number shall be shot by each entitled for hunting is determined by the director veterinarian of the competent county before fifteen days of

- a) every sampling period on the territories vaccinated,
- b) every sampling period in spring on the territories not vaccinated.

paragraph (4): Beside the examination of the foxes shot in accordance with paragraph (2), the examination for rabies shall be carried out on the cadavers of dead foxes and other mammals living in the wild as well. In case of small game the whole cadaver, in case of big game the head shall be sent for examination in accordance with the proceedings prescribed in paragraph (2).

On each dead foxes direct IF test of the brain (for confirmation of the disease), AB-ELISA test of the blood (for control of immunization) and bone polishing of the mandible (test for presence of tetracycline, for the control of effectiveness of bait uptake) is carried out. Tests are carried out in the designated competent animal health institutes in Budapest, Debrecen or Kaposvár in case of IF tests and bone polishing of the mandibles. AB-ELISA tests are carried out only in Budapest. (See point 3.4. as well.)

4.4.7. Vaccines used and vaccination schemes:

➤ In general: Article 8., paragraph (1) of Decree № 164/2008 of the MARD on detailed rules of the protection against rabies Article 8., paragraph (1): (first sentence) The resistance of the population of foxes living in the wild shall be provide by oral vaccination of foxes for the aim to prevent rabies in foxes and to combat the disease.

➤ Vaccines: Article 8., paragraph (3), and Article 10. of Decree N° 164/2008 of the MARD on detailed rules of the protection against rabies, and

Article 5., paragraph (1) of Decree N° 50/2006 of the MARD on veterinary medical products

Article 8., paragraph (3) of D. 164/2008 of the MARD; For the oral vaccination of foxes only bait vaccines with licence for market circulation for Hungary, in accordance with separate piece of legislation should be used.

Article 5., paragraph (1) of D. 50/2006 of the MARD: Veterinary medicinal products - in a form mixed to feed as well - in internal market should be put in circulation, turn over or use up only with licence for market circulation, after national or mutual recognition procedure in accordance with Regulation 726/2006/EC. To begin the manufacture for putting in circulation a licence for market circulation is needed as well.

In accordance with European Regulation 726/2004/EC of the European Parliament and the Council, and the Hungarian legislation in force in Hungary veterinary medicinal products (VMP) should be put in circulation, turn over or use up only with licence for market circulation, after national procedure (NP) or mutual recognition procedure (MRP). The NP and MRP provide that in Hungary VMP's could be used up only if they match to the EU and national professional prescriptions. In case of vaccination against rabies in red foxes means that only those vaccines shall be used, which are suit to the prescriptions in Chapter 2.1.13., point C (http://www.oie.int/eng/normes/manual/2008/pdf/2.01.13_RAIES.pdf) of the O.I.E. Manual of Diagnostic Tests and Vaccines for Terrestrial Animals, issued in 2008 and the prescriptions could be found in the relevant monograph (P11. EUR. 01/2008:0764) of the European Pharmacopoeia (issues of the European Pharmacopoeia are available at Directorate of Veterinary Medicinal Products of the Central Agricultural Office in printed version).

Taking into consideration the above mentioned facts, there are four types of vaccines have authorisation to put in circulation in Hungary (Rabitox, Fuchsrot, Rabigen SAC-2, Lisvulpen). (See point 8. as well.)

Type of vaccines used so far and using in 2009 in Hungary during the campaigns could be found in *Table 3.* under point 3.3.

➤ Vaccination schemes: Article 10 of Decree N° 164/2008 of the MARD on detailed rules of the protection against rabies Article 10., paragraph (1): Vaccination prescribed in Article 8., paragraph 1 shall be carried out two times (in spring and in autumn) in a year, and shall be carried out minimum during four consecutive years.

paragraph (2): If in a county there was not occurred rabies of human or animal origin in the previous two years, that county could be declared as free of rabies. Vaccination shall be carried out two more years counted from the last diagnosed case of rabies.

paragraph (3): In case of reinfection emergency vaccination shall be carried out in a circle area with min. 50 km radius around the place of the diagnosed case.

paragraph (4): The free status of a county in accordance with paragraph (2) is declared by the chief veterinary officer, or in case of reinfection repeals it.

Details about the method used so far, using in 2009 and planned to be used for distribution of vaccine baits could be found under point 3.3.

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

➢ Decree № 164/2008 of the MARD on detailed rules of the protection against rabies

In relation to the case of oral vaccination of foxes, where no holdings, but free areas are involved in the programme this could be consider in a special way.

4.4.9. Measures in case of a positive result (⁹):

Relating articles in Hungarian legislation, in case of positive red fox samples:

(In case of positive results in other species the relevant pieces of legislation could prescribe different measurements.)

➢ Article 2., point a) of Decree № 164/2008 of the MARD on detailed rules of the protection against rabies

Article 2.: in application of this decree

- an animal is diseased in rabies, when during its laboratory examination rabies is diagnosed in a way excluded any doubt,

➢ Article 16., paragraph (2) of Decree № 164/2008 of the MARD on detailed rules of the protection against rabies

Article 16., paragraph (2): It is the laboratory's appointed in accordance with paragraph (1), to inform the veterinarian sent the examination material in, in case of biting of a human being the district veterinarian competent relating to the place of the biting, furthermore the competent territorial institute of the National Human Health and Medical Officer Service about the result of the tests, in case of positive result from the aspect of rabies without fail, and per fax as well.

➢ Article 4., paragraph (2) and (3) of Decree № 113/2008 of MARD on the order of the notification of animal diseases

Article 4., paragraph (2): (first sentence) The district veterinarian through the director veterinarian of the county, about the suspect and the diagnosis of the notifiable animal disease must inform without fail the Central Agricultural Office (henceforth: Centre).

⑨ 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).

Article 4, paragraph (3): The Centre about the diagnosis of the notifiable animal disease informs without fail the Chief Veterinary Officer.

➤ Article 10., paragraph (3) of Decree N° 164/2008 of the MARD on detailed rules of the protection against rabies

Article 10., paragraph (3): In case of reinfection emergency vaccination shall be carried out in a circle area with min. 50 km radius around the place of the diagnosed case.

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

➤ Article 18., paragraph (3) of Decree N° 164/2008 of the MARD on detailed rules of the protection against rabies

Article 18., paragraph (3): Killing of dog, cat, ferret, additionally animal captured under authorisation in six months and other animal living in the wild shall be order without state compensation, killing of other domestic animals shall be ordered with state compensation.

• Domestic animals (without dogs, cats and ferrets):

➤ Article 55. of Hungarian Act N° XLVI of 2008 (AFCOC)

(1) In connection with the implementation of emergency epidemiological measures referred to in Article 51. (3) *i)-q)*, the following shall be entitled to state compensation, subject to the exceptions set out in paragraphs (2) and (3):

a) the owners of animals that have died in any of the diseases specified in legislation adopted for the implementation of this Act following the time of notification prescribed in Article 18. (1) *b)*, or killed in consequence of emergency epidemiological measures, if notified, as well as the owners of products, materials, equipment and means that have been destroyed;

b) the owner and user of the landed property, vehicle, building, equipment, asset and material specified in Article 51. (3) *p)*, if used or applied specifically under the resolution therefore;

c) the business association specified in Article 51. (3) *q)*, if the order was imposed specifically under the resolution therefore.

(2) No compensation shall be paid:

a) in connection with illegally imported animals, including any materials, equipment and means used for keeping such animals;

b) in the event of keeper's or the food business operator's failure to report the suspected presence of a disease in the animal, or the infringement of prescribed obligations;

c) if the owner knew about the disease of the animal obtained by way of transfer, at the time of the transfer;

d) if the emergency epidemiological measures had to be imposed for reasons within the keeper's or the food business' control;

e) for wild animals, except if captured under authorisation and kept or bred in a fenced area (wildlife park, wildlife preservation area, bird cage) for at least six months, and wild game shot for diagnostics purposes under emergency epidemiological measures, and protected animals;

f) for manure and bedding;

g) for animals kept, transported, slaughtered and placed on the market in violation of the relevant animal health regulations, including products of such nature.

- (3) For the purposes of state compensation, compliance with the obligations prescribed under the emergency epidemiological measures specified in Article 51. (3) a)-h) and r) shall not be treated as active participation within the meaning of Article 51. (3) p) and q).

(4) The amount of compensation shall be the market value of the animal, material, substance or object affected, whereas in the cases defined in Article 51. (3) p) and q) it shall be adjusted to the value of damage or loss sustained because of the use or participation, exclusive of lost profits.

(5) The detailed regulations for the estimation of damages and the terms of settlement shall be laid down in legislation adopted for the implementation of this Act. The terms of payment of compensation shall be defined in the resolution therefore.

➤ Articles 141. - 155. of Decree № 41/1997 of MA (AIIC)

These articles contain detailed rules concern to state compensation.

• Dogs, cats, ferrets, animals captured under authorisation in six months, other animal living in the wild:

There is no state compensation available in case of rabies in red foxes.

To reach the shooting of the prescribed number of samples, fee for the shots is paid by the state to Hunting Associations.

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

(The role of the Competent Authorities in charge of the control, please see under point 4.2. as well!)

➤ Article 9., paragraph (5) of Decree № 164/2008 of the MARD on detailed rules of the protection against rabies

Article 9., paragraph (5): For the sake of developing the method of vaccination, the efficiency of the vaccination is evaluated continuously on the basis of viewpoints of animal health, public health, biology of wild animals, ecology and erology by the animal health and food control service and the hunting authority.

To suit to Article 9., paragraph (5) of Decree № 164/2008 of the MARD on detailed rules of the protection against rabies, in practice after the vaccination campaign in autumn, an evaluation meeting is held with the participation of the representatives of the involved stakeholders. During this meeting the evaluation of the programme of the actual year is carried out and in the light of its result, the main lines and frames of the next year programme is decided. The last evaluating meeting was held in Budapest, on 04th of December 2008. The evaluation meeting is planned to be held at the end of the year 2009 as well.

The Central Agricultural Office signs a contract with the winner of the public procurement for the implementation of the actual programme of the actual year. Some of the phases of the implementation of the programme included in the contract are controlled by all means and some phases are controlled "random sample – like" by the official clerk(s) of the Central Agricultural Office. The contractor should report the procurer (Central Agricultural Office) in words and in writing about the tasks carried out. These are usually provided by points of the contract with the winner of the public procurement (in 2009 Chapter III, point 7, and in Chapter VI, points 17 and 18, of the contract). In 2010 these requirements are intend to be part of the contract as well. Usually one of the annexes (still part) of the contract is the contract notice, which usually includes prescriptions for the connection between the procurer and the contractor. The contractor should carry out his tasks in accordance with these documents. More details could be found in the contracts of the actual year.

At each Food Chain Safety and Animal Health Directorates of the County Agricultural Offices there are one person, so called coordinator, who takes care about the implementation and control of the programme at county level.

The laboratory in Budapest (NRL) of the Veterinary Diagnostics Directorate of the Central Agricultural Office is accredited by the National Accrediting Body; the accreditation of the two other laboratories (in Kaposvár and in Debrecen) is ongoing. The NRL (in Budapest) takes part on all international circle tests organised by the AFSSA Nancy Laboratory (EU reference laboratory); once in a year rabies antibody titer detection from so called PEJ animals, once in a year rabies virus isolation with IF, in mice and with PCR methods. Up to the present the NRL is suited well to the prescriptions. The laboratory in Debrecen in 2008 and 2009, the laboratory in Kaposvár in 2008 took part on international circle tests aimed at rabies virus detection with IF method. Both laboratories suited well to the prescriptions. The NRL (in Budapest) in 2007 made an internal audit (control) aimed at rabies virus detection with IF method. The laboratory suited well to the prescriptions. The NRL in this year (2009) carrying out an ongoing internal audit (control) aiming at tetracycline detection (bone polishing of the mandible).

In 2010 the Animal Health and Animal Welfare Directorate of the Central Agricultural Office intends to carry out internal audit (control) in two counties focusing on the work of its colleagues on the accepted programme.

5. Benefits of the programme (¹):

Benefits: Gain free status from a zoonosis which is fatal also for human beings

- costs of testing (analysis, sampling, other)
- costs of vaccine baits
- costs of distribution of the baits
- other costs (storage of vaccine baits, costs of transaction of public procurements)

Table 4.: Costs paid for the programme between 2001 – 2008 (costs of vaccine baits and distribution of the baits)

For the years 2001 – 2005: Exchange rate from 04/2006

For the year 2006: Exchange rate from 04/2007

For the year 2007: Exchange rate from 04/2008

For the year 2008: 1 Euro = 289,20 HUF (source: Euro foreign reference exchange rates of the European Central Bank, 29/04/2009)

Year	Costs of the vaccine baits (without VAT 20 %) [€]		
	Costs of the distribution (without VAT 20 %) [€]	Total costs of the vaccine baits and the distribution (without VAT 20 %) [€]	
2001			977,825
2002			1,040,927
2003			1,291,678
2004	1,238,760 (PHARE)	1,225,745	2,464,505
2005	1,238,760 (PHARE)	1,322,395	2,561,155
2006	1,238,760 (PHARE)	1,398,379	2,637,139
2007 (co-financing)	1,253,640	1,396,921	2,650,561
2008 (co-financing)	1,379,668,05		1,379,668,05
2009 (co-financing)	Ongoing	There is no information available yet	

(¹) A description is provided of the benefits for farmers and society in general.

6. Data on the epidemiological evolution during the last five years (1)

66]. Evolution of the disease (¹²) NOT RELEVANT

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

Situation on date: _____
Year: _____

Animal species: Disease (b):

④ How does Nucleus or holdings appropriate

Herts on figures of royalties applied.

Cisease and animal species if necessary.

Region as defined in the eradication programme of the Member State.

Total number of herds existing in the region including eligible herds and non-eligible herds for the programme. Check means to perform a herd level test under the programme for the respective disease with the purpose of major animal monitoring. The health status of the herd

the first time that the two groups have been compared.

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

Others which status in the previous period was Unknown, Not free-negative, Free, Officially Free or Suspended and have

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

Local governments provide little in the way of tables.

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

Year: _____ Situation on date: _____

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Disease (a)		Animal species:		Indicators	
Region (b)	Total number of animals (c)	Number of animals (d) under the programme	Number of animals (e) tested	Number of positive animals (f)	Slaughtering
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9=(4/3)x100	9	9	9	9	9
10=(6/4)x100	10	10	10	10	10
Total					

Disease and animal species if necessary.

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

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

Includes animals tested individually or under bulk level scheme.

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

Include all positive animal slaughtered and also the negative animals slaughtered under the programme.

Disease and animal species if necessary.

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

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

Includes animals tested individually or under bulk level scheme.

In all positive animals slaughtered and all the negative animals slaughtered under the surveillance

6.2. Stratified data on surveillance and laboratory tests: **NOT RELEVANT**

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

Year: Disease (a): Animal species/category:

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests:

Region (b)	Serological tests		Microbiological or virological tests		Number of positive samples (e)	Other tests			
	Number of samples tested (c)	Number of positive samples (d)	Number of samples tested (c)	Number of positive samples (d)					
Total									
(a) Disease and animal species if necessary.									
(b) Region as defined in the approved eradication programme of the Member State.									
(d) Number of samples tested.									
(e) Number of positive sample.									

- (a) Disease and animal species if necessary.
- (b) Region as defined in the approved eradication programme of the Member State.
- (d) Number of samples tested.
- (e) Number of positive sample.

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

Year: 2003 Disease (a): Rabies

Animal species: Wild animals

Region (b) HUNGARY	Number of herds infected (c)	Number of animals infected
Fox		128
Other		1
Total		129

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

Year: 2004 Disease (a): Rabies

Animal species: Wild animals

Region (b) HUNGARY	Number of herds infected (c)	Number of animals infected
Fox		111
Total		111

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

Year: 2005

Disease (³): Rabies Animal species: Wild animals

Region (¹)	Number of herds infected (²)	Number of animals infected
HUNGARY		
Fox	7	7
Total	7	7

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

Year: 2006

Disease (³): Rabies Animal species: Wild animals

Region (¹)	Number of herds infected (²)	Number of animals infected
HUNGARY		
Fox	2	2
Total	2	2

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

Year: 2007

Disease (¹): Rabies

Animal species: Wild animals

Region (²)	Number of herds infected (³)	Number of animals infected
HUNGARY		
Fox		
Total	3	3

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

Year: 2008

Disease (¹): Rabies

Animal species: Wild animals

Region (²)	Number of herds infected (³)	Number of animals infected
HUNGARY		
Fox		
Total	6	6

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

6.4. Data on the status of herds at the end of each year⁽¹³⁾; NOT RELEVANT

Year: Disease⁽⁴⁾: Animal species:

Region ⁽⁵⁾	Status of herds and animals under the programme ⁽⁶⁾									
	Not free or not officially free			Free or officially free suspended ⁽⁷⁾			Free ⁽⁸⁾			
	Unknown ⁽⁹⁾		Last check positive ⁽⁵⁾	Last check negative ⁽⁵⁾		Animals ⁽¹⁰⁾	Herd ⁽¹¹⁾		Animals ⁽¹²⁾	Herd ⁽¹³⁾
Herd ⁽¹⁴⁾	Animals ⁽¹⁵⁾	Herd ⁽¹⁴⁾	Animals ⁽¹⁵⁾	Herd ⁽¹⁴⁾	Animals ⁽¹⁵⁾	Herd ⁽¹⁴⁾	Animals ⁽¹⁵⁾	Herd ⁽¹⁴⁾	Animals ⁽¹⁵⁾	Herd ⁽¹⁴⁾
Total										
Disease and species if necessary.										

Region as defined in the approved eradication programme of the Member State.
At the end of the year⁽¹⁶⁾.

Unknown: No previous checking results available.

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

Not free and last check negative: Herd checked with negative results in the latest check but not being Free or Officially free suspended as defined in Community or national legislation for the respective disease at the end of the reporting period.

Free herd as defined in Community or national legislation for the respective disease.
Officially free herd as defined in Community or national legislation for the respective disease.

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

⁽¹¹⁾ Only data to provide for bovine tuberculosis, bovine brucellosis, ovine and caprine brucellosis (*B. melitensis*), enzootic bovine leucosis (EBL) and Aujeszky's disease

Rabies – for 2010 requested add. inf. to point 4.4 are included (1st September, 2009) 35/50

6.5. Data on vaccination or treatment programmes (⁽⁴⁾): NOT RELEVANT

Year: 2008

Disease (⁽⁵⁾): Rabies

Animal species:

Description of the used vaccination, therapeutic or other scheme:

Region (⁽⁶⁾)	Total number of herds (⁽⁶⁾)	Total number of animals	Information on vaccination or treatment programme					
			Number of herds (⁽⁷⁾) in vaccination or treatment programme	Number of herds (⁽⁷⁾) vaccinated or treated	Number of animals (⁽⁷⁾) vaccinated or treated	Number of doses of vaccine or treatment administered	Number of adults (⁽⁷⁾) vaccinated	Number of young (⁽⁷⁾) animals vaccinated
Total								

Disease and species if necessary.

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

Herds or flocks or holdings as appropriate.

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

(⁽⁴⁾) Data to provide only if vaccination has been carried out.

Rabies - for 2010 requested add. inf. to point 4.4 are included (11th September, 2009)

6.6. Date on wildlife⁽¹⁵⁾

6.6.1. Estimation of wildlife population

Year: 2000-2007

Method of estimation^(*): Hunting bag of wild red foxes

(National Game Management Database <http://www.vt.gau.hu/adattar/index.html>)

There are also remarkable populations of golden jackals (*Canis aureus syriacus*) and of raccoon dogs (*Nyctereutes procyonoides*) in Hungary but the size of these populations is far smaller comparing to the size of the population of wild red foxes (*Vulpes vulpes*).

Estimation of the population of the concerned wild species			
Regions ^(*)	Species:	Species:	Species:
HUNGARY	Wild red fox (<i>Vulpes vulpes</i>)		
	No. of shot foxes		
2001	63.509		
2000	59.816		
2001	63.509		
2002	75.571		
2003	63.463		
2004	56.149		
2005	57.348		
2006	50.017		
2007	66.180		
Total	555.562		

The hunting bag is considered to be the standard method of estimation. If other method is used, explain.

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

(¹⁵) Data only to provide in case the programme comprises measures as regards wildlife or if the data are epidemiologically relevant for the disease.

Rabies – for 2010 requested add. inf. to point 4.4 are included (11th September, 2009) 37/50

Peculiarities of the hunting bags of foxes between 1990-2003 (Source: National Game Management Database)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Size of the hunting bags															
Transdanubia	14,20	13,22	14,39	12,58	15,05	15,79	18,19	18,54	22,43	27,82	30,56	30,30	29,65	21,54	19,429
East	0	7	5	2	1	1	2	1	7	0	7	5	7	0	
Hungary	32,37	29,89	31,99	28,85	32,76	36,10	38,41	41,70	44,66	54,67	59,81	63,50	75,57	63,46	56,149
Distribution of the hunting bags															
Transdanubia	43,9	44,2	45,0	43,6	45,9	43,7	47,4	44,5	50,2	50,9	51,1	47,7	39,2	33,9	34,6%
East	56,1	55,8	55,0	56,4	54,1	56,3	52,6	55,5	49,8	49,1	48,9	52,3	60,8	66,1	65,4%
Hungary	3,5	3,2	3,5	3,1	3,5	3,5	4,2	4,5	4,8	5,9	6,5	6,9	8,2	6,9	6,1
Density of hunting bags (piece/1000 ha)															
Transdanubia	3,7	3,4	3,7	3,3	3,9	4,1	4,7	4,8	5,8	7,2	7,9	7,8	7,6	5,5	4,9
East	3,4	3,1	3,3	3,0	3,3	3,8	3,8	4,3	4,1	3,0	3,4	6,1	8,5	7,8	6,8
Hungary	3,5	3,2	3,5	3,1	3,5	3,9	4,2	4,5	4,8	5,9	6,5	6,9	8,2	6,9	6,1

Estimation of the population of wild red foxes was also carried out via questionnaires filled out by hunters.

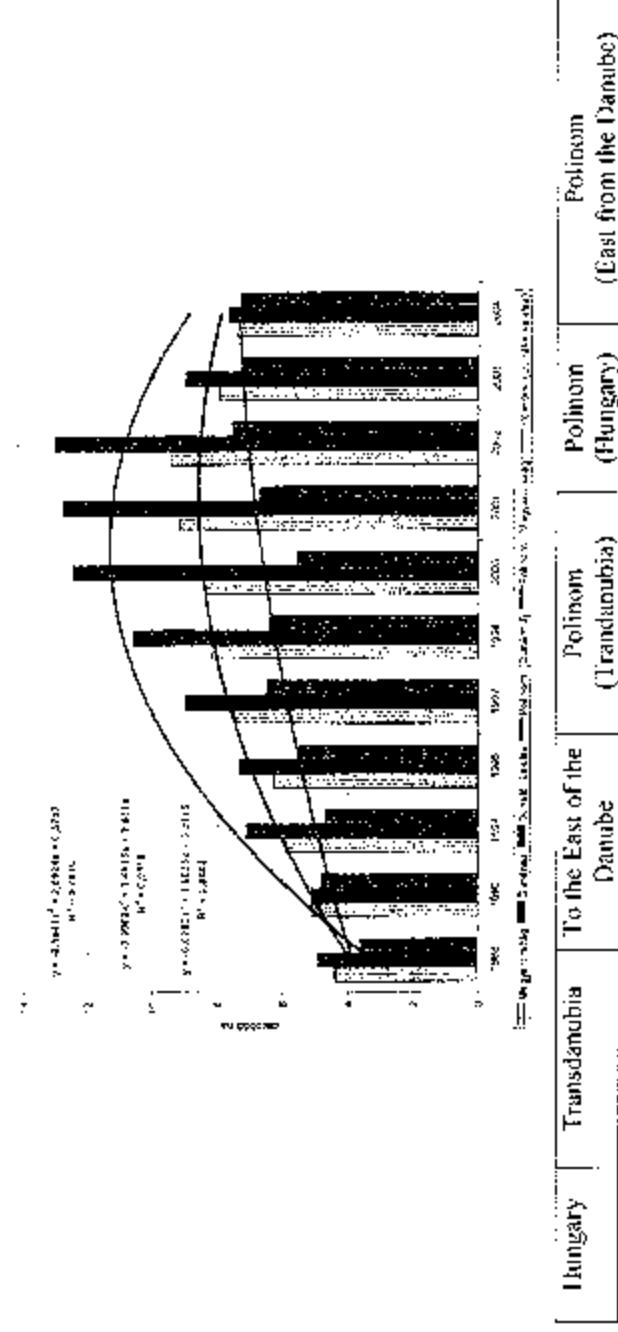
Density of the fox population (piece/1000 ha) between 1988-2004 (mean, SD: standard deviation, n: N° of the respondents)

Year	Hungary			Transdanubia			To the east of the Danube		
	n	SD	n	n	SD	N	n	SD	n
1988	4,4	3,2	233	4,9	3,7	97	3,6	2,7	136
1990	5,1	3,8	186	5,1	3,6	74	4,8	4,0	112
1994	5,9	4,9	280	7,1	4,7	119	4,7	4,6	161
1995	6,3	4,8	377	7,3	5,5	141	5,5	4,1	236
1997	7,5	5,8	299	9,0	6,8	121	6,5	4,7	178
1998	8,2	6,8	448	10,6	8,1	193	6,4	4,8	255
2000	8,4	9,1	551	12,5	12,3	220	5,6	4,4	328
2001	9,2	7,6	413	12,8	8,5	167	6,7	5,8	245
2002	9,47	14,0	458	13,04	9,14	159	7,57	15,58	299
2003	7,95	6,7	455	8,99	6,84	173	7,51	6,56	282
2004	7,45	4,55	7,71	6,19	175	7,28	8,14	280	

Density of the fox-burrows inhabited between 1988-2004 (piece/1000 ha²; mean, SD: standard deviation; n: N° of the respondents)

Year	Transdanubia			To the east of the Danube		
	Mean	SD	n	Mean	SD	n
1988	2,3	1,7	101	2,0	1,4	144
1990	2,1	1,4	75	2,1	1,6	117
1991	3,1	2,1	129	2,2	1,5	180
1993	3,0	2,1	141	2,6	1,8	215
1997	3,9	2,8	169	4,1	7,1	243
1998	4,5	2,6	215	3,4	2,6	293
2000	4,4	3,4	222	2,6	1,9	333
2001	4,2	2,9	191	2,7	2,0	301
2002	3,74	2,62	197	2,73	2,03	346
2003	3,16	2,28	204	2,76	1,86	328
2004	3,00	1,82	197	2,70	1,98	331

Changes in the density of the population of the wild red foxes between 1988-2004



Source: M. Heikkai and I. Szemethy 2005:

Changes in the fox population, in the last 15 years, how effect the immunization on the population of foxes?
NIMROD 93(10): 23-25, p.

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

Year: 2001-2007 Disease (C): Rabies

Animal species: Wild red fox (*Vulpes vulpes*)

Description of the used serological tests:

AB-ELISA test - determination of the titre of antibodies of the rabies' virus in the blood serum (a clot from the heart or liquid from the chest).

Description of the used microbiological or virological tests:

Direct immunofluorescence of the brain imprints - test for rabies.

Description of the other used tests:

Bone polishing of the mandible - test for the presence of tetracyclines.

Region (1)	Microbiological or virological tests			Serological tests		Other tests (Bone polishing)	
	Number of samples tested	Number of positive samples	Number of samples tested	Kinshus Shirovne samples	Number of samples tested	Number of positive samples	
2001*	1212	231	485	152	485	185	
2002	2199	122	607	357	1031	791	
2003	2178	128	642	563	939	698	
2004**	4753	111	1556	743	2910	1951	
2005	5711	7	2105	1520	2538	1941	
2006	6621	3	2113	639	5841	4124	
2007	7777	3	4568	1357	7644	5225	
2008	8609	6	1936	596	27832 (registered samples)	3464 (not updated data)	
	Total	39065	611	14702	5933	18462 (not updated data)	

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

Remarks:

* data from year 2001 contains only 1 campaign

** laboratorial control of oral immunization of foxes was extended over the foxes sent for diagnostic examination (found dead, road kills, suspected)

6.6.3. Data on vaccination or treatment of wildlife

Year: 2003-2008 Disease^(a): Rabies Animal species: Wild red foxes (*Vulpes vulpes*)

Description of the used vaccination, therapeutic or other scheme: see points 3.2 and 3.3.

Year	Region ^(b)	Square km	Number of doses of vaccine or treatment to be administered	Vaccination or treatment programme		Total number of doses of vaccine or treatment administered
				Number of campaigns	Number of treatments	
2003	Between the Danube and the Tisza + 19 Reserves at Transdanubia + national Parks, Mts. and NPs	Spring: 45,700 Autumn: 46,780	Spring: 976,010 Autumn: 959,090	1	1	1,935,100
2004	The whole territory of HUNGARY	93,030 Includes 920 km ² (manual distributed area)	1,860,000	2	2	3,720,000
2005	The whole territory of HUNGARY	93,030 Includes 920 km ² (manual distributed area)	1,860,000	2	2	3,720,000
2006	The whole territory of HUNGARY	93,030 Includes 920 km ² (manual distributed area)	1,860,000	2	2	3,720,000
2007	The whole territory of HUNGARY	93,030 Includes 920 km ² (manual distributed area)	1,860,000	2	2	3,720,000
2008	County Szabolcs-Szatmár-Bereg, Hajdú-Bihar, Baranya, Somogy, Tolna, the whole territory County Békés, Csongrád, Békés-Kiskun, Zala; within the 50 km buffer zone from the border of the country County Fejér: south of the M7 motorway County Vas: within the 50 km buffer zone from the Hungarian-Slovenian border	45,000 Includes 210 km ² (manual distributed area)	900,000	2	2	1,800,000
	Total					18,655,100

- (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) : Rabies	Animal species: Red fox (<i>Vulpes vulpes</i>)	Type of sample ^(e)	Objective ^(f)	Number of planned tests
Region ^(b)	Type of the test ^(c)	Target population ^(d)		
HUNGARY	Immunofluorescence test of the brain imprints	Red fox (<i>Vulpes vulpes</i>)	Brain	Confirmation of rabies
	AB-ELISA test (Biorad)	Red fox (<i>Vulpes vulpes</i>)	Blood	Monitoring of immunisation
	Bone polishing of the mandible	Red fox (<i>Vulpes vulpes</i>)	Mandible	Monitoring of campaigns (bait uptake)
	Bait titration		Vaccine baits	Control of virus titer in vaccine baits
	Vaccine sterility		Vaccine baits	Contains only vaccine
			Total	22350
	Disease and species if necessary.			
	Region as defined in the approved eradication programme of the Member State.			
	Description of the test (for instance SN-test, AB-Elisa, RBT, etc.).			
	Specification of the targeted species and the categories of targeted animals (for instance sex, age, breeding animal, slaughter animal, etc.).			
	Description of the sample (for instance blood, serum, milk, etc.).			
	Description of the objective (for instance quantification, surveillance, confirmation of suspected cases, monitoring of campaigns, seroconversion, control on deleted vaccines, testing of vaccine, control of vaccination, etc.).			

7.1.2. Targets on testing herds and animals¹⁶ NOT RELEVANT

7.1.2.1 Targets on the testing of herds (a)

Herds or Flocks as Holdings as appropriate.

Disease and animal checkers if necessary

12 disease and animal species if necessary.

Region as defined in the approved eradication

Total number of herds existing in the region inclosing sizeable herds and non-sizeable herds for the programme.

Check means to inspect or examine a vessel, cargo, or other articles to determine whether they contain any prohibited items.

Chagas means to perform a hand-level test and the procedure is identical to the one described above.

Herds with at least one positive animal during the period independent of the number of times the herd has been checked. 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 column a herd must not be counted twice even if it has been checked more than once.

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(16) Data not to provide in case of rabies.

7.1.2. Targets on the testing of animals NOT RELEVANT

Disease (1):

Region (2)	Total number of animals (3)	Animal species:						Target indicators	
		Number of animals (2) under the programme	Number of animals (2) expected to be tested individually (4)	Number of animals to be tested (5)	Number of expected positive animals (6)	Slaughtering	Total number of animals expected to be slaughtered (7)	Expected % coverage at animal level (8)	% positive animals (Expected animal prevalence)
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
Total									

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

7.2. Targets on quantification of herds and animals (¹⁵) (one table for each year of implementation) NOT RELEVANT

Discuss and species if necessary.

Region as defined in the annualized regional location programme of the Member State

REGIONS AS DILETTES IN THE VENETIAN REPUBLIC

[17] [REDACTED] No further information can be made available.

ORTHOGRAPHIC PREVIOUSLY UNKNOWN RESULTS AVAILABLE.

Not fine and last checked positivity: 1/3rd checked with at least one positive result in the latest check.

and less abeak management. Hand sheared sheep are often more difficult to handle than those which have been sheared by machine.

NOT FREE AND LAST CHECK NEGATIVE. ALSO CHECKED WITH NEGATIVE RESULTS IN THE LATEST CHECK BUT NOT BEING FREE & OFFICIALLY FREE.

Suspended as defined for the respective disease in Community or national legislation where appropriate or according national legislation.

These have us defined for the members of larger religious traditions in Community or nation. And all other countries are according national tradition.

336 *Environ Biol Fish* (2007) 80:333–336

Officially free here as defined for the respective disease where appropriate in Community or National legislation where appropriate or according national legislation

Inclusion: animals under the programme in the herds with the referred status (left column).

Data to provide only for bovine tuberculosis, bovine brucellosis, ovine and canine brucellosis (*B. melitensis*), enzootic bovine leucosis (*B. leucosis*) and Ajusky's disease.

Rabies - for 2010 requested add. inf. to point 4.4 are included (11th September, 2009)

45/50

Hungary

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

7.3.1. Targets on vaccination or treatment (¹⁸) NOT RELEVANT

Disease and species if necessary

Disease and species, if necessary.
Region as defined in the approved eradication programme of the Member State.

Region as defined in the approved eradicate Herds or flocks or holdings as appropriate.

Herds or flocks or holdings as appropriate.
Only for Bovine brucellosis and Ovine, Caprine brucellosis (*B. melitensis*) as defined in the programme.

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(¹⁸) Data to provide only if appropriate:

Rabies – for 2010 requested add. inf. to point 4.4 are included (11th September, 2009)

7.3.2. Targets on vaccination or treatment (¹⁹) of wildlife

Disease ⁽¹⁾ : Rabies 2010		Animal species: Wild carnivores (wild red fox / <i>Vulpes vulpes</i> *)		
Region ⁽²⁾	Square km	Number of doses of vaccine or treatments expected to be administered in the campaign	Targets on the vaccination or treatment programme	
County Szabolcs-Szatmár-Bereg, Baranya, Somogy: the whole territory	46,400	928 000	1,856 000	
County Békés, Csongrád, Borsod-Kiskun, Zala: within the 50 km buffer zone from the border of the country				
County Borsod-Abaúj-Zemplén: the eastern territory from river "Sajó"				
County Fejér: within the territory of the 50 km zone surrounded "Merryme"				
County Vas: within the 50 km buffer zone from the Hungarian-Slovenian border				
Total	46,400	928 000	1,856 000	

Disease and species if necessary.

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

Hungary intends to implement oral vaccination near to the borders of Slovenia, Croatia, Serbia, Romania and Ukraine in a minimum 50 km wide zone and simultaneously intends to apply emergency ring oral vaccination where positive rabies cases are detected ($r = \text{min. } 50 \text{ km}^2$).

(19) Data to provide only if appropriate.

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

**Estimated costs for the year 2010 (Estimation is based on the data from 2004-2009),
1 Euro = 289,20 HUF (source: Euro foreign reference exchange rates of the European Central Bank, 29/04/2009), VAT is 20 %**

Costs related to	Specification	Number of units	Unitary cost in EUR	Total amount in EUR	Community funding requested (yes/no)
1. Testing					
1.1. Cost of the analysis	Test: FE	7442 [piece]	13,83	102,922,86	yes
	Test: ELISA	7442 [piece]	10,37	77,173,54	yes
	Test: Bone polishing	7442 [piece]	6,92	51,498,64	yes
1.2. Cost of culling	Shooting of the animals and passing them to the official veterinarians	7442 [piece]	29,05	216,190,10	yes
1.3. Other costs					
2. Vaccination or treatment					
2.1. Purchase of vaccine/treatment					
2.1.1. Purchase of vaccine/treatment for the case of one emergency ring vaccination / campaign	4 type of vaccines are authorized to put in circulation in Hungary (Rabiflex, Fiehnoral, Rabigen SVK-2, Jisvulpen)	2 x 928,000 [piece] = 1,856,000 [piece]	0,45	835,200,00	yes
		157,000 [piece]	0,45	70,650,00	yes
2.2. Distribution costs					
2.2.1. Distribution costs for the case of one emergency ring vaccination / campaign	Distribution of vaccines via airplanes and manual	2 x 46,400 [km ²] - 92,800 [km ²]	7,04	653,312,00	yes
		7850 [km ²]	7,04	55,264,00	yes
2.3. Administering costs					
2.4. Control costs	See at 1.1.Costs of the analysis	See 1.1	See 1.1	See 1.1	yes
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				
Costs of the cold storage of vaccine baits		3.457,81	Yes	
Costs of transaction of public procurements		1.625,17	Yes	
Total	2.067.294,12	yes		

Rabies – for 2010

requested add. inf. to point 4.4 are included (1) ("September, 2009)

Abbreviations:

MA = Ministry of Agriculture (until 1997)

MARD = Ministry of Agriculture and Rural Development (since 1998)

AHC = Animal Health Code

Bp. = Budapest, capital of Hungary

KFKI = Központi Fizikai Kutató Intézet (Central Physical Research Institute)



**Central Agricultural Office
Animal Health and Animal Welfare Directorate**

H U N G A R Y

**MODIFICATION OF THE
APPLICATION
FOR COMMUNITY CO-FINANCING OF
HUNGARIAN
NATIONAL PROGRAMME FOR THE ERADICATION,
CONTROL AND MONITORING OF
RABIES IN RED FOXES
FOR 2010**

SUBMITTED: 16th OCTOBER, 2009

after the meeting held by the Commission on 16 October 2009 in the following topic:
Rabies eradication – cooperation with bordering third countries

Hungary applies for 921.700.775 EUR Community contribution (50%)

(Please read the explanation on the second page!)

Rabies

There was a meeting held by the Commission on 15 October 2009 in the following topic: Rabies eradication – cooperation with bordering third countries.

On the meeting, Hungary in her speech performed, that in accordance with the WHO Technical Report Series 931, WHO Expert consultation on rabies (2004, Geneva, Switzerland, issued in 2005) minimum **4 foxes/100 km²/year** should be investigated for the efficacy of oral vaccination programmes (8.5.3 point – evaluation of oral vaccination programmes), and asked the Commission to accept to implement her programme along this principle.

Commission has accepted the Hungarian proposal and request.

The **2009** year programme is in a so far gone phase, that Hungary will not apply the approved principle for this current year and will continue her programme with a monitoring programme with **8 foxes/100 km²/year** (mainly due to administrative reasons).

Hungary intends to implement her programme with minimum **4 foxes/100 km²/year from 2010**.

Taking into consideration this fact Hungary amends the amount of her application for Community contribution in case of her rabies eradication, control and monitoring programme for 2010.

Hungary already has applied for **1 033 647 EUR** (50 %) Community contribution applying the **8 foxes/100 km²/year** principle (1 EUR = 289,20 HUF). Novelty was in the Hungarian 2010 programme comparing to the previous years is, that she counts with the cost of one incidental emergency vaccination as well. (This is the reason for the higher amount comparing to the previous year, as there is no intention to modify the vaccinated areas in the planned two campaigns, which she treats in 2009.)

In the proposal for Commission Decision on approval of the programmes (EN SANCO/6900/2009) under Article 10, paragraph 2, point (b) is stated: "**EUR 880 000** for Hungary".

After calculating with the **4 foxes/100 km²/year** principle Hungary applies for **921.700,775 EUR** (50%) Community contribution. Other parts of the application would remain unchanged. Hungary counted with the same Euro exchange rates (1 EUR = 289,20 HUF) to let to be the amounts comparable. The total cost (100 %) Hungary could be save is **223.892,57 EUR**, which would mean **111 946,285 EUR** (50%) saving for the Community contribution.

Below you will find three tables. The first one is the table already submitted by Hungary (last version of the programme was submitted on 11th September 2009, with the requested additional information). The second table contains the data in the light of applying the "**4 foxes/100 km²/year principle**". The third table will contain the sum up of the most relevant amounts.

1. table: Already submitted application with principal of 8 foxes/100 km²/year

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

**Estimated costs for the year 2010 (Estimation is based on the data from 2004-2009)
1 Euro = 289,20 HUF (source: Euro foreign reference exchange rates of the European Central Bank, 29/04/2009), VAT is 20%**

Costs related to	Specification	Number of units	Unitary cost in EUR	Total amount in EUR	Community funding requested (yes/no)
1. Testing					
1.1. Cost of the analysis	Test: IF	7442 [piece]	13,83	102.922,86	yes
	Test: ELISA	7442 [piece]	10,37	77.173,54	yes
	Test: Bone polishing	7442 [piece]	6,92	51.498,64	yes
1.2. Cost of sampling	Shooting of the animals and passing them to the official veterinarians	7442 [piece]	29,05	216.190,10	yes
1.3. Other costs					
2. Vaccination or treatment					
2.1. Purchase of vaccine/treatment	4 type of vaccines are authorised to put in circulation in Hungary (Rabiesex, Fuchsoral, Rabigen SAG-2, Lisvulpen)	2 x 928.000 [piece] = 1.856.000 [piece]	0,45	835.200,00	yes
2.1.1. Purchase of vaccine/treatment for the case of one emergency ring vaccination / campaign		157.000 [piece]	0,45	70.650,00	yes
2.2. Distribution costs	Distribution of vaccines via airplanes and manual	2 x 46.400 [km ²] = 92.800 [km ²]	7,04	653.312,00	yes
2.2.1. Distribution costs for the case of one emergency ring vaccination / campaign	7850 [km ²]		7,04	55.264,00	yes
2.3. Administering costs					
2.4. Control costs	See at 1.1 Costs of the analysis	See 1.1	See 1.1	See 1.1	yes

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 <small>(staff contracted for the programme only)</small>							
6. Consumables and specific equipment							
7. Other costs							
	Costs of the cold storage of vaccine baits					3.457,81	
	Costs of transaction of public procurements					1.625,17	
	Total					2.067.294,12	Yes

2. table: Modified application with principal of 4 foxes/100 km²/year

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

Estimated costs for the year 2010 (Estimation is based on the data from 2004-2009)

1 Euro = 289,20 HUF (source: Euro foreign reference exchange rates of the European Central Bank, 29/04/2009), VAT was 20%, from 1st July 2009 is 25%

Costs related to	Specification	Number of units	Unitary cost in EUR	Total amount in EUR	Community funding requested (yes/no)
1. Testing					
1.1. Cost of the analysis	Test: IF	572 [piece]	13,83	31,367,43	yes
	Test: EISA	522 [piece]	10,37	53,586,77	yes
	Test: Bone polishing	5722 [piece]	6,92	35,749,32	yes
1.2. Cost of sampling	Shooting of the animals and passing them to the official veterinarians	5722 [piece]	29,05	168,625,65	yes
1.3. Other costs					
2. Vaccination or treatment					
2.1. Purchase of vaccine/treatment	4 type of vaccines are authorised to put in circulation in Hungary (Rabifox, Fuchsoral, Rabigen SAG-2, Lissvulpen)	2 x 928,000 [piece] - 1,856,000 [piece]	0,45	835,200,00	yes
2.1.1. Purchase of vaccine/treatment for the case of one emergency vaccination/campaign		157,000 [piece]	0,45	70,650,00	yes
2.2. Distribution costs	Distribution of vaccines via airplanes and mail	2 x 46,400 [km ²] = 92,800 [km ²]	7,04	653,312,00	yes
2.2.1. Distribution costs for the case of one emergency vaccination/campaign		7850 [km ²]	7,04	55,264,00	yes
2.3. Administering costs					
2.4. Control costs	See at 1.1 Costs of the analysis	See 1.1	See 1.1	See 1.1	yes
Rabies modification for 2010					
					Hungary
					5/7

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 <small>(staff contracted for the programme only)</small>			
6. Consumables and specific equipment			
7. Other costs	Costs of the cold storage of vaccine baits Costs of transaction of public procurements	3,457.81 1,625.17	yes yes
Total	1,843,407.55		yes

3. table: Summarising table with the most relevant data

Costs related to	Specification	Number of units [pieces]	Unitary cost in EUR	Total amount in EUR	Community funding requested (yes/no)
		\$ foxes/100 km/year principle	\$ foxes/100 km/year principle	\$ foxes/100 km/year principle	\$ foxes/100 km/year principle
1. Testing					
1.1. Cost of the analysis	Test: IF	7442	372*	13,83	102,922,86
	Test: ELISA	7442	372*	10,37	77,173,54
	Test: Bone polishing	7442	372*	6,92	51,498,64
1.2. Cost of sampling	Shooting of the animals and passing them to the official veterinarians	7442	372*	29,05	216,190,10
				Total cost of testing	447,785,14
				Total cost of the whole programme:	2,067,294,12
					1,843,401,55

* Hungary intends to implement two vaccination campaigns – the number should be an odd number