



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

SANCO/10491/2009

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

Multi-annual programme for the eradication of Rabies

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

Lithuania

* in accordance with Council Decision 2009/470/T/C



**LIETUVOS RESPUBLIKOS
VALSTYBINĖ MAISTO IR VETERINARIJOS TARNYBA**

STATE FOOD AND VETERINARY SERVICE REPUBLIC OF LITHUANIA

**APPLICATION FOR COMMUNITY FINANCING FOR RABIES ERADICATION
PROGRAMME IN LITHUANIA FOR 2010 -2012**

LITHUANIA, APRIL 2009

1. IDENTIFICATION OF THE PROGRAMME

Member State: Lithuanian Republic

Disease: Rabies

Year of implementation: 1st of January 2010 to 31st December of 2012

Reference of this document:

Contact: Vidmantas Paulauskas; phone + 370 5 2404363; fax + 370 5 2404362; E- mail: vvt@vet.lt; vpaulauskas@vet.lt

Date sent to the Commission: April, 2009

2. HISTORICAL DATA ON THE EPIDEMIOLOGICAL EVOLUTION OF THE DISEASE

Information on the history of the rabies and control activities in the past

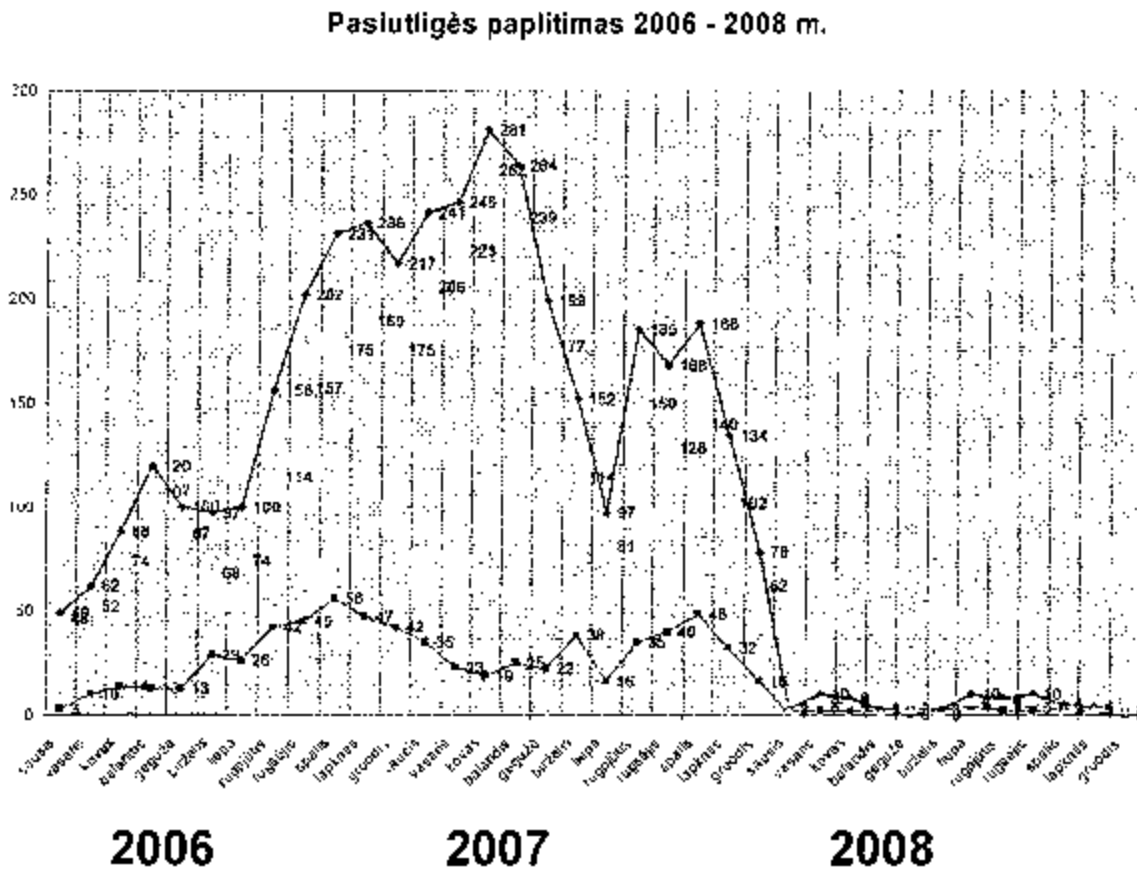
Rabies has been compulsory notifiable an enzootic disease in Lithuania for many years. The State Food and Veterinary Service has carried out surveillance and risk assessment of the epidemiological situation of zoonotic diseases and has developed and implemented prevention and control measures as regard rabies in a country. Suspected cases were notified to the local State Food and Veterinary Services and relevant samples were collected and submitted to veterinary laboratories for the investigation by direct immunofluorescence test and biological test. Mouse inoculation has been used to confirm or rule out rabies on negative samples tested by immunofluorescence method.

Pet animal movements have been controlled at the border entry points and it is required obligatory vaccination against rabies and appropriate animal identification and veterinary certificate for commercial movements of pet animals and approved passport or veterinary certificate for non-commercial movements of animals. Since October of 2004, for international movements, all dogs and cats must be identified by tattoo or microchip. They should be vaccinated against rabies with live or inactivated vaccine of at least one antigenic dose and authorized veterinarian should do vaccination. Pet passport should be used for the movement of animals between Member States. All identified pet animals should be registered into computerized database that and accessible for all relevant competent authorities.

Rabies has been widespread in the whole territory of the Republic of Lithuania. Wildlife rabies has enzootic pattern of the disease while urban rabies has been eradicated. Rabid wild animals are the main reservoir of this disease in a country and they course sporadic cases of rabies in domestic animals. Since 1960 eleven people have died of rabies: dogs infected two, foxes – four, raccoon dogs – two, badger – one, cat – one and the origin of the one case was unidentified. Aggressive dogs pose high risk of rabies to humans, because in each incident they could be considered as rabies-suspected animals.

The main reservoir species of rabies virus and the main animals distributing the disease were red foxes (*Vulpes vulpes*) and raccoon dogs (*Nyctereutes procyonoides*). Rabies is more widespread in wooden areas, but on the other hand wild predators moved as well into areas of human settlements. For instances, foxes and raccoon dogs have become a common sight in urban areas. Under such conditions the number of reports of rabies cases in dogs, cats and foxes in the cities and villages have increased.

Figure 1. Decreasing of rabies cases from 2006 to 2008 after implemented oral vaccination program



In 1994-1997 more rabies cases were occurred in domestic animals than in wildlife. Since 1998 wildlife rabies was prevailing. There were 58,9 % wildlife rabies cases in 1998, 75,3 % - in 1999, 66,5 % - in 2000, 71,6 % - in 2001, 73,1 % - in 2002 and 72,8 % - in 2003, 2004 - 75%, 2005 - 79%, 2006 - 84 %, 2007 - 70.7%, 2008 - 68,12 %

2.1. History of Rabies control activities in Lithuania

In Lithuania, oral vaccination trials started as far back as 1983, using Russian vaccine-bait systems (using an adapted ERA derivate in fish or meat baits) (Petkevičius, 1993). A 25-50% reduction in animal rabies cases was reported (SFVS, 1996), but information on safety and efficacy of the vaccine has not been documented (WHO, 1994). In the independence era, oral vaccination of wildlife was initiated in 1995 according to the Lithuanian National Rabies prevention programme. Over the 5-year duration of the programme (1995-2000), a range of vaccines has been used and variable geographic areas covered. Overall, oral vaccination has been carried out in more than 8,000 km², with 820,000 baits distributed at various stages of the campaign (reviewed by Zienius et al., 2002). Delivery methods have adopted manual distribution (predominantly by hunters) and aerial distribution using fixed-wing aircraft in a few limited areas. Vaccines have included SAG-1 (1995-1997, 1999), Lysvulpen (1998) and Rabifox (2000), all incorporating tetracycline markers.

Campaigns have followed a twice-yearly delivery strategy, with baits distributed in March-April and October-November. Distribution of baits relied mainly on manual distribution through hunting clubs. Aerial distribution in limited areas used fixed-wing aircraft flying at an altitude of less than 200 m at a maximum speed of 120 km/hr and 15-25 baits deposited per km². The total cost of the campaign in wildlife was €746, 731 (€685,760 for purchase of 820,000 vaccines and €60,971 for distribution). The campaigns were discontinued in 2000 due to lack of funding.

Evaluation of the effectiveness of the oral campaigns is difficult, given the patchy temporal and geographical coverage of vaccines. At national or regional levels, there has been no evidence for control of rabies, with a steady increase in the number of wildlife rabies cases reported from 1995 to the present. However, at local levels, SFVS veterinarians reported that oral vaccination did result in a reduction in wildlife rabies cases. In Taurage district, for example, repeated vaccination of an area of 175-215 km² (18 % of the area of the district) over three years (1997-1999) coincided with a decline in rabies cases from 20 (1997) to 2 (1999). In this area, bait uptake by foxes was estimated to be 80-90% from detection of tetracycline biomarker in a small sample of culled foxes.

The major factors limiting the success of previous oral wildlife vaccination campaigns in Lithuania are likely to have been (a) the patchy and limited geographical coverage, and (b) a lack of coordination of campaigns between districts. Evaluation of bait uptake and vaccine efficacy is difficult, given the limited post-vaccination sampling. Overall, over the 5-year period, tetracycline biomarker was detected in 59/189 (31.2%, range 26-45%) foxes tested post-vaccination, with antibody detected by ELISA in 67/138 (48.6%, range 37-57%). Both assays were carried out at the Pulawy National Veterinary Research Institute.

Oral vaccination of wild animals against rabies has already been started in Lithuania in 2006. Purchasing of vaccine baits, the distribution of vaccine baits using aircrafts and assessment of vaccination effectiveness is carried out according PHARE project No. 2003.0004-341.02.01 „Strengthening of Control on infectious Animal Diseases in Lithuania“.

3. DESCRIPTION OF THE SUBMITTED PROGRAMME

State Food and Veterinary Service of the Republic of Lithuania has prepared a long-term strategy for eradication of rabies in Lithuania. Oral vaccination of wild animals against rabies was already started in Lithuania in 2006. Purchasing of vaccine baits, the distribution of vaccine baits using aircraft and assessment of vaccination effectiveness is carried out according PHARE project No. 2003.0004-341.02.01 „Strengthening of Control on infectious Animal Diseases in Lithuania“.

Rabies is an endemic disease of wild animals in Baltic States. In order to ensure complete eradication of rabies and to avoid a re-infection from the neighbouring countries, cross-border oral vaccination with Kaliningrad region of Russian Federation and Byelorussia border is needed. Oral vaccination against rabies should be carried out twice a year using aerial distribution of baits. Estimated optimal number per square kilometre is not less than 20 baits. Estimated number of baits for oral vaccination against rabies in the Lithuania is 2600000.

Existing EU legislation allows supporting national programs concerning rabies eradication. The State Food and Veterinary Service has prepared national rabies eradication program for 2010-2012 and applied for 50% co-financing as foreseen by EU legislation.

The long-term strategy for eradication of rabies in Lithuania contains the following elements:

- oral vaccination of wild animals should cover all territory of Lithuania;
- oral vaccination of wild animals, especially red foxes and raccoon dogs, with vaccine which should create sufficient immunity;
- for the effectiveness of vaccination campaign against rabies, it would be great advantage if all Baltic states and Poland start this campaign at the same time and coordinate their activities;
- Rabies eradication campaign should last not less than no rabies cases will be registered + 2 years;
- compulsory vaccination of dogs and cats;
- identification and registration dogs and cats;
- control of the population of stray dogs and cats.

4. MEASURES OF THE SUBMITTED PROGRAMME

4.1. Summary of measures under the programme

Purpose of this programme - minimise the number of rabies cases among domestic and wild animals and thereby reduce the possibilities of human infection.

First year: 2006

Last year: 2012

Control

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

Monitoring or surveillance

Other measures

Eradication

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

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

The authority responsible for the co-ordination of rabies eradication in the entire country, is the State Food and Veterinary Service of the Republic of the Lithuania

The Animal Health and Welfare Department is responsible for the co-ordination and control of all District State Food and Veterinary Services involved in the implementation of this program. This department collects the data, performs statistical analysis and evaluation of the surveillance program and informs the relevant authorities in European Union about the progress of the control and surveillance program.

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

The rabies eradication program for the year 2010-2012 will be implemented in whole territory of Lithuania

4.4. Measures implemented under the programme

4.4.1. Measures and terms of legislation as regards the registration of holdings

The Order of the Director of the State Food and Veterinary Service (13 February 2003 No B1-1143) lays down the requirements for animal holding control according to regulation (EC) 1760/2000

4.4.2. Measures and terms of legislation as regards the identification of animals

The Order of the Ministry of Agriculture was adopted (16 June 2003 No. 310-234) and the SFVS was nominated as the competent institution responsible for the implementation of animal identification and registration system in the Republic of Lithuania.

Regulation (EC) No 1760/2000 of the European Parliament and of the Council of 17 July 2000 establishing a system for the identification and registration of bovine animals and regarding the labelling of beef and beef products and repealing Council Regulation (EC) No 820/97

Commission Regulation (EC) No 911/2004 of 29 April 2004 implementing Regulation (EC) No 1760/2000 of the European Parliament and of the Council as regards cartags, passports and holding registers

4.4.3. Measures and terms of legislation as regards the notification of the disease

„Requirements on notification of contagious diseases“ approved by Director of the State Food and Veterinary Service by the Order No 497 12 11 2001 implementing EU Directive 82/894/EEC (Official Gazette 2001, No. 96-3411)

4.4.4. Measures and terms of legislation as regards the measures in case of the positive results.

The following national measures and several implementing instructions have entered into force:

- Order No. B1-281 of 12 April 2006 "On the approval of the programme for animal contagious disease control".
- Order No. B1-463 of 11 May 2007 "On the approval of requirements for rabies control".
- Order No. V-146/B1-140 of 28 February 2005 of the Minister of Health and Director of SFVS "On approval of the form of information notice about suspected /confirmed cases of animal rabies".
- Order No. B1-351 of 28 March 2007 "On control of wild animal vaccination against the rabies.

The legal provisions exist to implement the requirements for the control of rabies and the application of the REP:

- Notification and measures in case of suspicions
- Collection and testing of dead animals
- Control of vaccinations and the efficiency of vaccinations
- Diagnosis of rabies
- Collaboration between the different services involved
- Identification and registration of pet animals.

4.4.5. Measures and terms of legislation as regards the compensation for owners slaughtered and killed animals

Compensation procedure is foreseen in the Resolution of the Government of the Republic of Lithuania No.1220 of 16 October 2001 on the compensation of losses and expenses incurred by the contagious diseases of animals, eradication of their focuses (Official Gazette, No, 89-3129, 2001), Order of the Minister of Agriculture issued on 2 December 2008 No 3D-646 "Approval of Rules of Evaluation and Compensation of Losses in Case of Emergency".

Development of a list of contagious animal diseases upon the occurrence of which livestock and other animals must be subjected to emergency slaughter or destruction, products and raw materials of animal origin must be decontaminated or destroyed and the losses incurred to the owners must be compensated and the expenses of the eradication of the disease focus must be covered, is foreseen. At present not all costs are covered if animals are not insured on private initiative.

Before slaughtering a committee will evaluate a live animal's and propose the amount of compensation. The committee is constituted of a Veterinarian of District State Food and Veterinary Service, an Officer of the District Agriculture Service and a representative of farmers.

After evaluation of losses the report of the committee must be sent to the Ministry of Agriculture. The Ministry of Agriculture prepares the report to the Lithuanian Government. The Lithuanian Government, taking into account report of the Ministry of the Agriculture, will issue Resolution "On losses compensation to the farmer", and the compensation is paid from the Government reserve fund for emergencies.

The Ministry of Agriculture defines the amount of compensation that cannot be greater than the market price of the animal, and it depends on the breed and the degree of genetic improvement of the animal. The compensation for the animals which will be slaughtered in the framework of animal diseases control program must be paid to the owner within 90 days after the slaughter of the animals.

4.4.6. Measures and terms of legislation as regards the control of the disease

The following national measures and several implementing instructions have entered into force:

- Order No. B1-463 of 11 May 2007 "On the approval of requirements for rabies control".
- Order No. B1-351 of 28 March 2007 "On control of wild animal vaccination against the rabies.

Modified live virus or genetically modified vaccine is to be used for oral vaccination of wildlife in Lithuania.

The vaccine contains a modified attenuated vaccinal strain SAD Bern rabies, propagated in cell cultures, antibiotics and a stabilisation medium. The mixture is dispensed into blisters, plastic capsules sealed with an aluminium foil. These are covered with a bait substance including tetracycline. Tetracycline functions as a vaccination indicator. A vaccinal virus can be differentiated from a field virus if monoclonal antibodies are applied. The vaccine will be laid twice a year, in April/May and in September/October, usually 20 units of bait per km². The vaccines will be evenly distributed over the whole area by planes.

The stability of vaccine baits will be tested before the distribution. The vaccine should fulfil the requirements of the European Pharmacopea monograph (1) as well as the

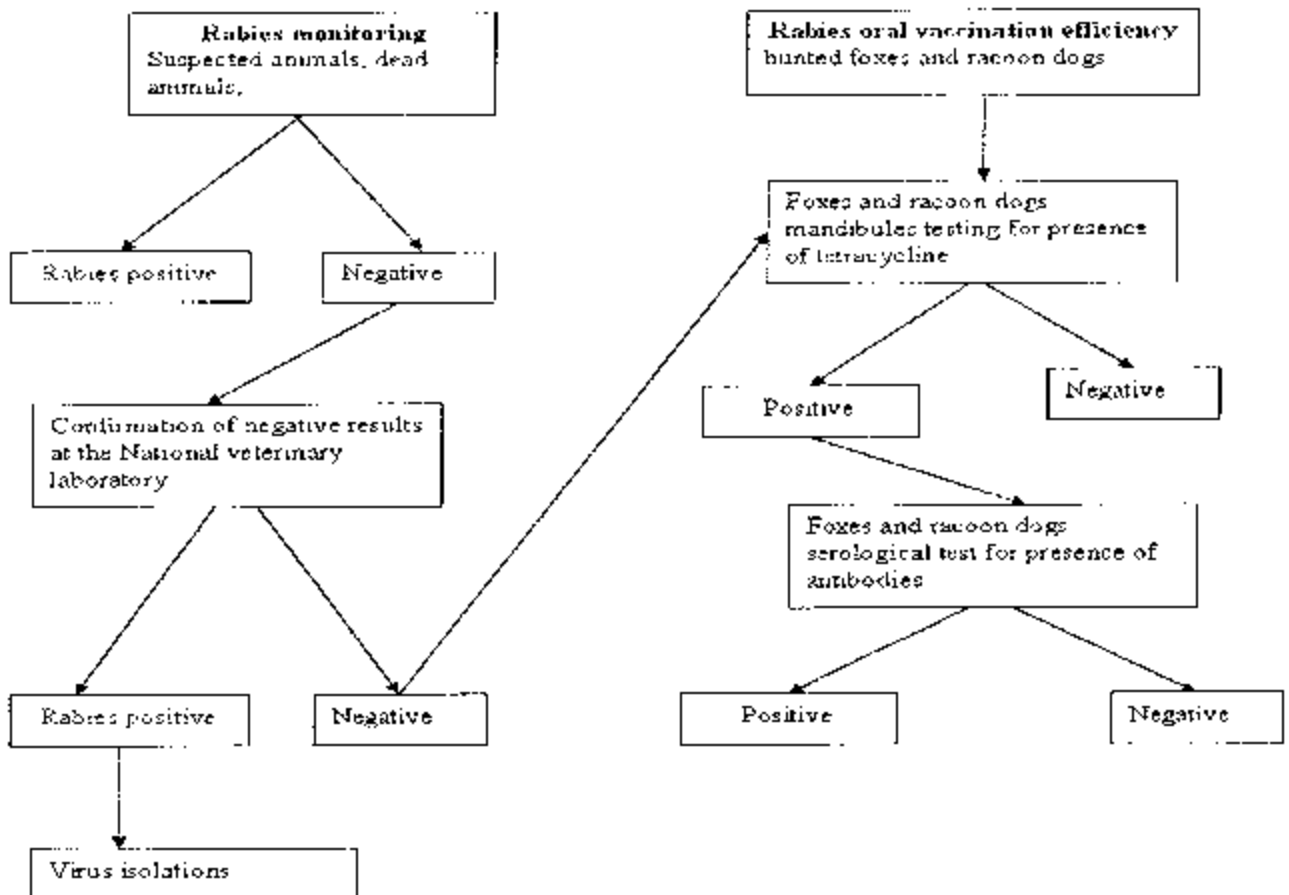
efficacy and safety recommendations of the WHO. The vaccines will be tested in EU reference laboratory.

Monitoring of vaccination will be carried out by testing for the occurrence of a biomarker tetracycline, which is incorporated into the bait, in the target species; foxes and raccoon dogs as well as sero-conversion rates.

National Food and Veterinary Risk Assessment Institute is the national rabies reference laboratory of the Republic of Lithuania and will carry out the rabies oral vaccination efficiency tests. 4000 samples of mandibula of hunted foxes and raccoon dogs and 1000 blood serum samples will be collected by the private veterinarian and distributed to the National Food and Veterinary Risk Assessment Institute yearly. The samples will be investigated following OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals chapter 2.2.5.

The samples sent to National Food and Veterinary Risk Assessment Institute for rabies efficiency test first of all are tested for presence of tetracycline. In case of positive results the serum samples are tested for presence of antibodies. If samples are negative for tetracycline marker the further investigation of serum tests is not necessary, because its clear that this test will be negative.

RABIES TESTING SCHEME



5. GENERAL DESCRIPTION OF THE COSTS AND BENEFITS

During this eradication program is foreseen to continue oral immunisation of wildlife population, and in order to make sure that vaccination is effective, the program provides for the control after immunisation by obtaining and laboratory assessment of foxes and racoon dogs.

Wild animals that are found dead in the nature with symptoms of rabies are sent to the National Veterinary Laboratory for examination free of charge. The tests carried out include an examination for rabies.

The benefit of the program is to eradicate rabies in wildlife through oral vaccination of wild animals and prevent transmission of rabies from wildlife to domestic animals

The total cost for the implementation of the rabies eradication campaign in 2010-2012 is estimated about **6 392 400 EUR**

6. DATA ON THE EPIDEMIOLOGICAL EVALUATION DURING THE LAST 6 YEARS

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

Year: 2002 Disease: Rabies Species: Dogs

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					22	5
Kaunas					23	3
Klaipeda					42	7
Marijampole					3	1
Panevezys					17	7
Siauliai					16	7
Taurage					8	2
Telsiai					4	2
Utena					32	7
Vilnius					23	9
Total					190	50

Year: 2002 Disease: Rabies Species: Cats

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					10	3
Kaunas					22	7
Klaipeda					26	12
Marijampole					3	
Panevezys					16	9
Siauliai					26	21
Taurage					13	7
Telsiai					2	1
Utena					14	6
Vilnius					10	5
Total					142	71

Year: 2002 Disease: Rabies Species: Cattle

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					22	16
Kaunas					23	11
Klaipeda					6	7
Marijampole					12	3
Panevezys					23	18
Siauliai					27	25
Taurage					22	17
Telsiai					7	6
Utena					35	10
Vilnius					14	7
Total					191	120

Year: 2002 Disease: Rabies Species: Equide

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					2	1
Kaunas					2	1
Klaipeda						
Marijampole						
Panevezys					1	
Siauliai					1	1
Taurage					2	2
Telsiai						
Utena					4	1
Vilnius						
Total					12	6

Year: 2002 Disease: Rabies Species: Sheep,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					1	1
Kaunas						
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena					1	
Vilnius						
Total					2	1

Year: 2002 Disease: Rabies Species: Goats

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					1	
Klaipeda						
Marijampole						
Panevezys					1	1
Siauliai					1	
Taurage					2	2
Telsiai						
Utena					1	1
Vilnius						
Total					6	4

Year: 2002 Disease: Rabies Species: Other Domestic

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marjampole						
Panevezys						
Siauliai						
Taurage						
Telsiai					1	
Utena					2	1
Vilnius					3	1
Total						

Year: 2002 Disease: Rabies Species: Foxes

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					49	44
Kaunas					56	18
Klaipeda					57	35
Marjampole					5	5
Panevezys					32	29
Siauliai					36	35
Taurage					28	25
Telsiai					3	3
Utena					42	33
Vilnius					50	44
Total					358	271

Year: 2002 Disease: Rabies .. Species: Raccoon dogs,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					36	35
Kaunas					82	34
Klaipeda					62	39
Marjampole					14	12
Panevezys					33	31
Siauliai					42	37
Taurage					22	17
Telsiai					4	4
Utena					87	73
Vilnius					33	31
Total					415	313

Year: 2002 Disease: Rabies .. Species: Badger,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					1	1
Kaunas						
Klaipeda						
Marjampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena					4	3
Vilnius						
Total					5	4

Year: 2002 Disease: Rabies Species: Martens

Description of the used serological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					17	8
Kaunas					26	6
Klaipeda					4	3
Marijampole					5	5
Panevezys					15	8
Siuliai					21	19
Taurage					7	4
Telsiai						
Utena					8	4
Vilnius					9	3
Total					112	60

Year: 2002 Disease: Rabies Species: Other mustelids,

Description of the used serological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					2	2
Kaunas					17	2
Klaipeda						1
Marijampole					7	3
Panevezys						
Siuliai						6
Taurage					3	
Telsiai						
Utena					8	1
Vilnius						
Total					37	15

Year: 2002 Disease: Rabies Species: other carnivores,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marjampole						
Pancevezys			8			6
Siulial						
Taurage			2			2
Telsiai						
Utena			1			1
Vilnius						
Total					11	9

Year: 2002 Disease: Rabies Species: Roe deer,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marjampole						
Pancevezys						
Siulial						
Taurage						
Telsiai					1	1
Utena						
Vilnius						
Total					1	1

Year: 2002 Disease: Rabies Species: Red deer,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					2	1
Kaunas						
Klaipeda						
Marijampole						
Pancevezys						
Siauliai						
Taurage						
Telsiai						
Utena						
Vilnius						
Total					2	1

Year: 2002 Disease: Rabies

Species: Other wild

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					9	
Klaipeda					4	
Marijampole						
Pancevezys					6	2
Siauliai						
Taurage					2	
Telsiai					1	
Utena					3	1
Vilnius					10	4
Total					35	7

Year: 2003 Disease: Rabies Species: Dogs

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					27	
Kaunas					74	15
Klaipeda					50	8
Marijampole					13	3
Panevezys					23	5
Siauliai					24	5
Taurage					11	3
Telsiai					6	1
Utena					25	5
Vilnius					32	13
Total					285	58

Year: 2003 Disease: Rabies Species: Cats

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					14	3
Kaunas					38	17
Klaipeda					50	11
Marijampole					2	1
Panevezys					18	6
Siauliai					32	21
Taurage					15	12
Telsiai					4	3
Utena					23	3
Vilnius					9	4
Total					205	81

Year: 2003

Disease: Rabies

Species: Cattle,

Description of the used serological tests:Description of the other used tests: Immunofluorescence antibody testDescription of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					16	10
Kaunas					42	19
Klaipeda					51	15
Marjampole					28	18
Panevezys					18	12
Siauliai					34	27
Taurage					31	18
Telsiai					27	21
Utena					17	6
Vilnius					10	7
Total					274	153

Year: 2003

Disease: Rabies

Species: Equide

Description of the used serological tests:Description of the other used tests: Immunofluorescence antibody testDescription of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					2	
Klaipeda						
Marjampole						
Panevezys					1	
Siauliai					2	
Taurage					2	1
Telsiai					1	1
Utena					9	3
Vilnius					6	5
Total					23	10

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage					1	
Telsiai						
Utena						
Vilnius						
Total					1	

Year: 2003

Disease: Rabies

Species: Goat,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					3	1
Klaipeda						
Marijampole						
Panevezys					1	1
Siauliai						
Taurage						
Telsiai						
Utena					1	
Vilnius						
Total					5	2

Year: 2003 Disease: Rabies Species: Stray Dogs

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					6	6
Kaunas						
Klaipeda						
Marjampole						
Pancevys						
Siauliai						
Taurage						
Telsiai						
Utena						
Vilnius						
Total					6	6

Year: 2003 Disease: Rabies Species: Other domestic

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marjampole						
Pancevys						
Siauliai						
Taurage						
Telsiai						
Utena					3	1
Vilnius						
Total					3	1

Year: 2003

Disease: Rabies

Species: Foxes

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					73	67
Kaunas					95	23
Klaipeda					202	60
Marijampole					28	26
Panevezys					37	33
Siauliai					34	30
Taurage					38	33
Telsiai					11	9
Utena					44	39
Vilnius					71	59
Total					633	379

Year: 2003

Disease: Rabies

Species: Raccoon dogs,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					51	48
Kaunas					99	37
Klaipeda					168	50
Marijampole					19	18
Panevezys					17	16
Siauliai					24	21
Taurage					19	17
Telsiai					9	7
Utena					52	49
Vilnius					40	39
Total					498	302

Year: 2003

Disease: Rabies

Species: Badger,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					2	1
Kaunas					2	1
Klaipeda					16	5
Marjampole						
Panevezys						
Siauliai						
Taurage					1	1
Telsiai						
Utena					1	1
Vilnius					2	
Total					24	9

Year: 2003

Disease: Rabies

Species: Martens

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					17	16
Kaunas					31	2
Klaipeda					25	6
Marjampole					8	8
Panevezys					19	13
Siauliai					14	12
Taurage					8	6
Telsiai					3	3
Utena					16	11
Vilnius					6	4
Total					147	81

Year: 2003 Disease: Rabies Species: Other mustelides

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					13	7
Kaunas					9	
Klaipeda					16	3
Marijampole					2	1
Panevezys						
Siauliai					3	1
Taurage					7	
Telsiai						
Utena					2	1
Vilnius					1	
Total					53	13

Year: 2003 Disease: Rabies

Species: Wild boar,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage					1	
Telsiai						
Utena						
Vilnius						
Total					1	

Year: 2003

Disease: Rabies

Species: Roe deer,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					1	
Kaunas						
Klaipeda					8	2
Marijampole						
Panevezys						
Siauliai					1	
Taurage						
Telsiai					1	
Utena						
Vilnius						
Total					11	2

Year: 2003

Disease: Rabies

Species: Red deer,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					2	
Klaipeda						
Marijampole					1	1
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena					2	
Vilnius						
Total					5	1

Year: 2003 Disease: Rabies Species: Other wild

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					11	
Klaipeda					3	1
Marjampole						
Panevezys					8	4
Siauliai						
Taurage						
Telsiai						
Utena					12	1
Vilnius					7	7
Total					41	13

Year: 2004 Disease: Rabies Species: Dogs

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					20	
Kaunas					53	2
Klaipeda					113	3
Marjampole					4	1
Panevezys					61	5
Siauliai					28	7
Taurage					20	
Telsiai					9	3
Utena					18	3
Vilnius					18	1
Total					344	25

Year: 2004

Disease: Rabies

Species: Cats

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					14	3
Kaunas					39	4
Klaipeda					121	6
Marjampole					4	1
Panevezys					52	1
Siauliai					21	9
Taurage					26	3
Telsiai					4	2
Utena					23	4
Vilnius					22	3
Total					326	36

Year: 2004

Disease: Rabies

Species: Cattle,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					9	6
Kaunas					18	2
Klaipeda					31	8
Marjampole					9	2
Panevezys					10	3
Siauliai					12	8
Taurage					17	12
Telsiai					13	10
Utena					24	10
Vilnius					12	4
Total					155	65

Year: 2004

Disease: Rabies

Species: Equide

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					1	
Klaipeda						
Marijampole					3	1
Panevezys					2	
Siauliai					1	
Taurage						
Telsiai						
Utena					1	
Vilnius					3	3
Total					11	4

Year: 2004

Disease: Rabies

Species: Sheep,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena						
Vilnius					1	
Total					2	
					3	

Year: 2004 Disease: Rabies Species: goat,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					1	
Klaipeda					2	
Marijampole						
Panevezys					2	
Siauliai						
Taurage						
Telsiai						
Utena						
Vilnius						
Total					5	

Year: 2004 Disease: Rabies Species: pig,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda					2	
Marijampole						
Panevezys						
Siauliai						
Taurage						
Telsiai					1	
Utena					1	
Vilnius						
Total					4	

Year: 2004 Disease: Rabies Species: Stray Dogs

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						11
Kaunas					14	
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena						
Vilnius					1	1
Total					15	12

Year: 2004 Disease: Rabies Species: FOXES

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					21	32
Kaunas					68	6
Klaipeda					156	23
Marijampole					5	2
Panevezys					66	25
Siauliai					24	19
Taurage					96	7
Telsiai					6	3
Utena					150	19
Vilnius					66	57
Total					658	193

Year: 2004 Disease: Rabies Species: Raccoon dogs,

Year: 2004 Disease: Rabies Species: Raccoon dogs,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					12	21
Kaunas					70	5
Klaipeda					103	18
Marijampole					4	4
Panevezys					36	15
Siauliai					20	20
Taurage					52	9
Telsiai					3	3
Utena					93	23
Vilnius					42	41
Total					435	159

Year: 2004 Disease: Rabies Species: wolf,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					1	1
Kaunas						
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena						
Vilnius						
Total					1	1

Year: 2004

Disease: Rabies

Species: Badger,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda					3	1
Marjampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena					1	1
Vilnius					2	
Total					6	2

Year: 2004

Disease: Rabies

Species: Martens

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					5	5
Kaunas					30	1
Klaipeda					22	2
Marjampole					1	
Panevezys					18	3
Siauliai					7	5
Taurage					12	4
Telsiai						
Utena					9	6
Vilnius					6	5
Total					110	31

Year: 2004 Disease: Rabies Species: Other mustelides

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					2	2
Kaunas					10	2
Klaipeda					15	1
Marijampole					2	
Panevezys						
Siauliai					6	4
Taurage					5	
Telsiai						
Utena					1	
Vilnius					10	3
Total					51	12

Year: 2004 Disease: Rabies Species: Other carnivores

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole						
Panevezys					6	
Siauliai						
Taurage					20	
Telsiai						
Utena					3	1
Vilnius						
Total					29	1

Year: 2004 Disease: Rabies Species: Wild boar,

Description of the used serological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage					1	1
Telsiai						
Utena						
Vilnius						
Total					1	1

Year: 2004 Disease: Rabies Species: Roe deer,

Description of the used serological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda					3	
Marijampole						
Panevezys						
Siauliai					2	
Taurage						
Telsiai					2	
Utena						
Vilnius						
Total					7	

Year: 2004 Disease: Rabies Species: Red deer,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					3	
Kaunas						
Klaipeda						
Marjampole						
Panevezys						
Siauliai						
Taurage						
Telsiai					1	
Utena						
Vilnius						
Total					4	

Year: 2004 Disease: Rabies Species: Other wild

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					24	
Klaipeda					4	1
Marjampole						
Panevezys					8	
Siauliai						
Taurage					1	1
Telsiai						
Utena					6	2
Vilnius					3	3
Total					46	7

Year: 2005 Disease: Rabies Species: Dogs

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					41	
Kaunas					44	7
Klaipeda					121	17
Marjampole					22	10
Panevezys					47	20
Siauliai					36	9
Taurage					21	2
Telsiai					4	
Utena					36	4
Vilnius					91	13
Total					463	82

Year: 2005 Disease: Rabies Species: Cats

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					26	3
Kaunas					44	13
Klaipeda					112	23
Marjampole					7	3
Panevezys					41	11
Siauliai					31	10
Taurage					25	8
Telsiai					3	
Utena					31	7
Vilnius					56	13
Total					376	91

Year: 2005 Disease: Rabies Species: Cattle,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					16	9
Kaunas					18	10
Klaipeda					91	26
Marijampole					32	24
Panevezys					32	18
Siauliai					19	16
Taurage					16	5
Telsiai					12	7
Utena					82	18
Vilnius					16	12
Total					334	145

Year: 2005 Disease: Rabies Species: Equide

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					1	1
Klaipeda						
Marijampole					1	1
Panevezys					3	1
Siauliai					1	1
Taurage						
Telsiai					1	1
Utena					6	2
Vilnius					1	1
Total					14	8

Year: 2005

Disease: Rabies

Species: Sheep,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					1	
Kaunas						
Klaipeda						
Marjampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena					6	1
Vilnius						
Total					7	1

Year: 2005

Disease: Rabies

Species: goat,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marjampole						
Panevezys					2	
Siauliai						
Taurage						
Telsiai					1	
Utena					1	
Vilnius						
Total					4	

Year: 2005 Disease: Rabies Species: pig,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena						
Vilnius					1	1
Total					1	1

Year: 2005 Disease: Rabies Species: Stray Dogs

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena						
Vilnius					3	3
Total					8	8

Year: 2005

Disease: Rabies

Species: Foxes

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					59	53
Kaunas					75	33
Klaipeda					221	57
Marjampole					45	29
Panevezys					106	68
Siauliai					64	50
Taurage					50	20
Telsiai					15	9
Utena					101	46
Vilnius					206	170
Total					942	535

Year: 2005

Disease: Rabies

Species: Raccoon dogs,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					92	50
Kaunas					95	69
Klaipeda					267	83
Marjampole					25	23
Panevezys					84	71
Siauliai					63	59
Taurage					42	32
Telsiai					4	4
Utena					141	74
Vilnius					154	138
Total					967	603

Year: 2005 Disease: Rabies Species: wolf,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole						
Panevezys						
Siaubiai						
Taurage						
Telsiai					1	
Utena						
Vilnius						
Total					1	

Year: 2005 Disease: Rabies Species: Badger,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					1	1
Kaunas						
Klaipeda					7	2
Marijampole						
Panevezys						
Siaubiai						
Taurage						
Telsiai					1	1
Utena						
Vilnius					6	3
Total					15	7

Year: 2005 Disease: Rabies Species: Martens

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					13	7
Kaunas					32	5
Klaipeda					71	17
Marijampole					10	6
Panevezys					48	30
Siauliai					23	15
Taurage					17	8
Telsiai					1	
Utena					31	10
Vilnius					14	16
Total					260	114

Year: 2005 Disease: Rabies Species: Other mustelides

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					11	3
Kaunas					13	3
Klaipeda					35	6
Marijampole					5	
Panevezys						
Siauliai					14	7
Taurage					9	
Telsiai					2	1
Utena					21	4
Vilnius					16	6
Total					126	30

Year: 2005 Disease: Rabies Species: Other carnivores

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole						
Panevezys					14	6
Stautiai						
Taurage						
Telsiai						
Utena					4	2
Vilnius					7	7
Total					25	15

Year: 2005 Disease: Rabies Species: Wild boar,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda					1	
Marijampole						
Panevezys						
Stautiai						
Taurage						
Telsiai						
Utena						
Vilnius						
Total					1	

Year: 2005

Disease: Rabies

Species: Roe deer,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda					6	1
Marjampole						
Panevezys						
Siauliai					6	
Taurage						
Telsiai					2	1
Utena					5	2
Vilnius					3	2
Total					17	6

Year: 2005

Disease: Rabies

Species: Red deer,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					2	
Klaipeda						
Marjampole						
Panevezys						
Siauliai					1	
Taurage						
Telsiai						
Utena					7	
Vilnius					1	
Total					11	

Year: 2005

Disease: Rabies

Species: Other wild

Description of the used serological tests:**Description of the used microbiological or virological tests:****Description of the other used tests: Immunofluorescence antibody test**

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					24	1
Klaipeda					10	2
Marijampole						
Panevezys						
Siauliai					7	1
Taurage						
Telsiai						
Utena					9	3
Vilnius						
Total					50	7

Year: 2006

Disease: Rabies

Species: Dogs

Description of the used serological tests:**Description of the used microbiological or virological tests:****Description of the other used tests: Immunofluorescence antibody test**

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					28	5
Kaunas					53	15
Klaipeda					75	10
Marijampole					13	6
Panevezys					41	9
Siauliai					37	12
Taurage					20	1
Telsiai					6	1
Utena					76	21
Vilnius					110	24
Total					459	104

Year: 2006 Disease: Rabies Species: Cats

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus			13		4	
Kaunas			33		8	
Klaipėda			89		12	
Marjampolė			19		14	
Panevezys			38		11	
Siauliai			38		8	
Taurage			21		3	
Telsiai			3		1	
Utena			58		14	
Vilnius			42		11	
Total			354		85	

Year: 2006 Disease: Rabies Species: Cattle,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus			19		15	
Kaunas			28		25	
Klaipėda			9		2	
Marjampolė			38		31	
Panevezys			10		8	
Siauliai			9		6	
Taurage			7		3	
Telsiai			12		8	
Utena			83		21	
Vilnius			26		18	
Total			241		137	

Year: 2006 Disease: Rabies Species: Equide

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					2	2
Klaipeda					1	
Marjampole					1	
Panevezys						
Stautiai					1	1
Taurage						
Telsiai						
Utena					7	3
Vilnius					6	3
Total					18	9

Year: 2006 Disease: Rabies Species: Sheep

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					2	1
Klaipeda					3	1
Marjampole						
Panevezys						
Stautiai						
Taurage					1	
Telsiai						
Utena					2	1
Vilnius					2	
Total					10	3

Year: 2006 Disease: Rabies

Species: Goats,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole					2	1
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena					3	
Vilnius					5	1
Total						

Year: 2006

Disease: Rabies

Species: Stray Dogs

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					4	4
Kaunas						
Klaipeda						
Marijampole					4	
Panevezys						
Siauliai						
Taurage					3	
Telsiai						
Utena						
Vilnius					5	3
Total						7

Year: 2006 Disease: Rabies Species: Foxes

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					104	93
Kaunas					90	79
Klaipeda					212	59
Marijampole					54	51
Panevezys					42	35
Siauliai					67	56
Taurage					36	20
Telsiai					16	14
Utena					160	133
Vilnius					162	146
Total					943	686

Year: 2006 Disease: Rabies Species: Raccoon dogs,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					65	61
Kaunas					203	177
Klaipeda					185	85
Marijampole					58	56
Panevezys					71	65
Siauliai					63	60
Taurage					54	40
Telsiai					16	14
Utena					329	296
Vilnius					174	165
Total					1218	989

Year: 2006 Disease: Rabies Species: woflis,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					2	
Kaunas						
Klaipeda						
Marjampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena					1	1
Vilnius					3	1
Total						

Year: 2006 Disease: Rabies Species: Badger,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					1	
Kaunas					9	3
Klaipeda					7	2
Marjampole						
Panevezys						
Siauliai					3	3
Taurage						
Telsiai					1	1
Utena					4	3
Vilnius					2	2
Total					27	14

Year: 2006 Disease: Rabies Species: Martens

Year: 2006 Disease: Rabies Species: Martens

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					16	9
Kaunas					39	14
Klaipeda					71	16
Marijampole					12	9
Panevezys					30	22
Siauliai					35	20
Taurage					19	4
Telsiai					7	4
Utena					45	24
Vilnius					66	21
Total					340	143

Year: 2006 Disease: Rabies Species: other mustelides

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					9	1
Kaunas					18	5
Klaipeda					24	
Marijampole					6	2
Panevezys						
Siauliai					10	3
Taurage					7	
Telsiai					4	1
Utena					32	10
Vilnius					39	5
Total					149	27

Year: 2006 Disease: Rabies Species: other carnivores,

Year: 2006 Disease: Rabies Species: other carnivores,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					4	1
Klaipeda						
Marjampole						
Panevezys					17	4
Siauliai						
Taurage						
Telsiai						
Utena					3	
Vilnius					3	1
Total					27	6

Year: 2006 Disease: Rabies Species: Roe deer,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					3	1
Klaipeda					8	1
Marjampole					1	1
Panevezys						
Siauliai					1	
Taurage					2	
Telsiai					1	
Utena						
Vilnius					4	2
Total					20	8

Year: 2006

Disease: Rabies

Species: Red deer,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					2	1
Klaipėda						
Marijampolė					2	
Panevėžys						
Šiauliai						
Tauragė						
Telsiai						
Utena					4	
Vilnius						
Total					8	

Year: 2006

Disease: Rabies

Species: Other wild

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					6	1
Klaipėda					15	6
Marijampolė						
Panevėžys					6	1
Šiauliai						
Tauragė					1	1
Telsiai						
Utena					9	1
Vilnius						
Total					37	10

Year: 2007

Disease: Rabies

Species: Dogs

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					21	2
Kaunas					57	11
Klaipeda					34	3
Marijampole					5	
Panevezys					28	7
Siauliai					26	1
Taurage					35	1
Telsiai					6	2
Utena					44	3
Vilnius					53	5
Total					309	35

Year: 2007

Disease: Rabies

Species: Cats

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					13	4
Kaunas					37	10
Klaipeda					28	2
Marijampole					13	7
Panevezys					30	10
Siauliai					11	3
Taurage					22	
Telsiai					7	1
Utena					32	4
Vilnius					29	2
Total					222	43

Year: 2007 Disease: Rabies Species: Cattle,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					5	3
Kaunas					8	5
Klaipeda					3	1
Marijampole					4	1
Panevezys					14	8
Siauliai					5	3
Taurage					8	3
Telsiai					2	1
Utena					45	3
Vilnius					14	8
Total					108	36

Year: 2007 Disease: Rabies Species: Equide

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					2	1
Kaunas						
Klaipeda					2	
Marijampole						
Panevezys						
Siauliai						
Taurage						
Telsiai					2	
Utena					6	3
Vilnius					1	1
Total					13	5

Year: 2007

Disease: Rabies

Species: Sheep,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					2	1
Kaunas					1	
Klaipeda						
Marijampole						
Panevezys					2	
Stautiai						
Taurage						
Telsiai						
Utena					7	1
Vilnius					2	
Total					14	2

Year: 2007

Disease: Rabies

Species: Foxes

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					48	38
Kaunas					56	36
Klaipeda					70	9
Marijampole					11	7
Panevezys					35	11
Stautiai					19	3
Taurage					42	2
Telsiai					7	2
Utena					48	6
Vilnius					74	28
Total					410	142

Year: 2007

Disease: Rabies

Species: Raccoon dogs,

57

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					25	17
Kaunas					75	40
Klaipeda					36	3
Marijampole					9	8
Panevezys					23	7
Siauliai					15	2
Taurage					25	4
Telsiai					12	8
Utena					73	17
Vilnius					32	17
Total					325	123

Year: 2007

Disease: Rabies

Species: Wolf,

Description of the used serological tests:Description of the used microbiological or virological tests:Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas						
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena						
Vilnius						
Total						

Year: 2007 Disease: Rabies Species: Badger,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					1	
Kaunas					1	
Klaipeda					1	
Marijampole						
Panevezys						
Siauliai						
Taurage					1	
Telsiai						
Utena					2	2
Vilnius						
Total					6	2

Year: 2007 Disease: Rabies Species: Marten,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					14	6
Kaunas					25	5
Klaipeda					11	
Marijampole					4	2
Panevezys					20	1
Siauliai					12	1
Taurage					21	3
Telsiai					5	2
Utena					42	4
Vilnius					41	1
Total					195	25

Year: 2007 Disease: Rabies Species: Other Mustelides,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					7	1
Kaunas					13	3
Klaipeda					9	
Marijampole					3	
Panevezys						
Siauliai					5	1
Taurage					16	
Telsiai						
Utena					22	
Vilnius					19	1
Total					94	6

Year: 2007 Disease: Rabies Species: Other carnivores

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					4	1
Klaipeda						
Marijampole						
Panevezys					13	3
Siauliai						
Taurage					2	
Telsiai						
Utena					2	
Vilnius					5	
Total					26	4

Year: 2007 Disease: Rabies Species: Wild boar,

Year: 2007 Disease: Rabies Species: Roe deer,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					1	
Kaunas					1	
Klaipeda						
Marijampole						
Panevezys						
Siauliai						
Taurage						
Telsiai						
Utena						
Vilnius						
Total					3	

Year: 2007 Disease: Rabies Species: Roe deer,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					5	3
Klaipeda						
Marijampole						
Panevezys					2	
Siauliai					3	
Taurage					1	
Telsiai						
Utena						
Vilnius						
Total					11	3

Year: 2007 Disease: Rabies Species: Other wild

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						
Kaunas					13	3
Klaipeda					4	
Marjampole					1	
Panevezys					11	2
Siauliai						
Taurage					4	1
Telsiai					1	
Uteng					8	1
Vilnius					10	
Total					52	7

Year: 2008 Disease: Rabies Species: Dogs

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					13	0
Kaunas					17	0
Klaipeda					17	0
Marjampole					11	0
Panevezys					14	2
Siauliai					13	1
Taurage					19	0
Telsiai					5	0
Utena					25	2
Vilnius					43	0
Total					177	5

Year: 2008 Disease: Rabies Species: Cats

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					5	0
Kaunas					12	1
Klaipeda					14	0
Marijampole					14	3
Panevezys					22	0
Siauliai					11	0
Taurage					8	1
Telsiai						4
Utena					22	1
Vilnius					47	0
Total					155	8

Year: 2008 Disease: Rabies Species: Cattle,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					6	1
Kaunas					4	0
Klaipeda						0
Marijampole					2	2
Panevezys					11	1
Siauliai					5	2
Taurage					2	0
Telsiai					3	1
Utena					12	2
Vilnius					3	0
Total					50	9

Year: 2008 Disease: Rabies Species: Equide

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas						0
Klaipeda						0
Marijampole						0
Panevezys						0
Siauliai						0
Taurage						0
Telsiai						0
Utena					1	0
Vilnius					1	0
Total					2	0

Year: 2008 Disease: Rabies Species: Sheep,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas						0
Klaipeda						0
Marijampole						0
Panevezys						0
Siauliai						0
Taurage					1	0
Telsiai						0
Utena						0
Vilnius					2	0
Total					3	0

Year: 2008 Disease: Rabies Species: Goat,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas						0
Klaipeda						0
Marijampole						0
Panevezys						0
Siauliai						0
Taurage						0
Telsiai						0
Utena						0
Vilnius					1	0
Total					1	0

Year: 2008 Disease: Rabies Species: Pig,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas						0
Klaipeda						0
Marijampole						0
Panevezys						0
Siauliai						0
Taurage						0
Telsiai						0
Utena						0
Vilnius					2	0
Total					2	0

Year: 2008 Disease: Rabies Species: Stray dog.

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas					1	0
Klaipėda						0
Marjampolė						0
Panevezys						0
Siauliai						0
Tauragė						0
Telsiai						0
Litėna						0
Vilnius						0
Total					1	0

Year: 2008 Disease: Rabies Species: Other domestic,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas						0
Klaipėda						0
Marjampolė						0
Panevezys					1	0
Siauliai						0
Tauragė					2	0
Telsiai						0
Utena					1	0
Vilnius					2	0
Total					6	0

Year: 2008 Disease: Rabies Species: Unspecified,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas						0
Klaipeda						0
Marijampole						0
Panevezys						0
Siauliai						0
Taurage						0
Telsiai					3	0
Utena						0
Vilnius						0
Total					3	0

Year: 2008 Disease: Rabies Species: Foxes

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					31	0
Kaunas					30	4
Klaipeda					37	0
Marijampole					6	0
Panevezys					18	0
Siauliai					27	1
Taurage					40	0
Telsiai					4	2
Utena					23	5
Vilnius					394	1
Total					610	13

Year: 2008 Disease: Rabies Species: Raccoon dogs,

Year: 2008 Disease: Rabies Species: Raccoon dogs,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					13	1
Kaunas					39	9
Klaipeda					26	1
Marijampole					6	1
Panevezys					31	3
Siauliai					17	1
Taurage					26	0
Telsiai					5	2
Utena					50	3
Vilnius					122	0
Total					335	21

Year: 2008 Disease: Rabies Species: Raccoon,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas						0
Klaipeda					2	0
Marijampole						0
Panevezys						0
Siauliai						0
Taurage						0
Telsiai						0
Utena						0
Vilnius						0
Total					2	0

Year: 2008 Disease: Rabies Species: Badger,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas					2	0
Klaipeda					1	0
Marijampole						0
Panevezys						0
Siauliai						0
Taurage					1	0
Telsiai						0
Utena						0
Vilnius					2	0
Total					6	0

Year: 2008 Disease: Rabies Species: Marten,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					11	3
Kaunas					17	3
Klaipeda					5	0
Marijampole					4	0
Panevezys					25	2
Siauliai					12	1
Taurage					15	0
Telsiai						0
Utena						0
Vilnius					16	0
Total					116	9

Year: 2008 Disease: Rabies Species: Other Mustelides,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					4	0
Kaunas					4	1
Klaipeda					2	0
Marijampole					3	0
Panevezys					4	2
Siauliai					5	0
Taurage					5	0
Telsiai						0
Utena					11	0
Vilnius					12	0
Total					50	3

Year: 2008 Disease: Rabies Species: Other carnivores

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas					1	0
Klaipeda						0
Marijampole						0
Panevezys					3	0
Siauliai						0
Taurage						0
Telsiai						0
Utena					4	0
Vilnius					6	0
Total					14	0

Year: 2008 Disease: Rabies Species: Wild boar,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alvtus						0
Kaunas						0
Klaipeda						0
Marijampole						0
Panevezys						0
Siauliai					1	0
Taurage						0
Telsiai						0
Utena					1	0
Vilnius					2	0
Total					4	0

Year: 2008 Disease: Rabies Species: Roe deer,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alvtus						0
Kaunas					1	0
Klaipeda						0
Marijampole						0
Panevezys					2	0
Siauliai						0
Taurage					1	0
Telsiai						1
Utena					3	0
Vilnius					2	0
Total					9	1

Year: 2008 Disease: Rabies Species: Red deer,

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas						0
Klaipeda						0
Marjampole						0
Panevezys						0
Siauliai						0
Taurage						0
Telsiai						0
Utena						0
Vilnius					1	0
Total					1	0

Year: 2008 Disease: Rabies Species: Other wild

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus					4	0
Kaunas					3	0
Klaipeda						0
Marjampole						0
Panevezys					3	0
Siauliai						0
Taurage					4	0
Telsiai						0
Utena					6	0
Vilnius					1	0
Total					21	0

Year: 2008 Disease: Rabies Species: bat

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas					4	0
Klaipeda						0
Marijampole						0
Panevezys						0
Siauliai						0
Taurage						0
Telsiai						0
Utena						0
Vilnius						0
Total					4	0

Year: 2008 Disease: Rabies

Species: unspecified

Description of the used serological tests:

Description of the used microbiological or virological tests:

Description of the other used tests: Immunofluorescence antibody test

Region	Serological tests		Microbiological or virological tests		Other tests	
	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples	Number of samples tested	Number of positive samples
Alytus						0
Kaunas						0
Klaipeda					35	0
Marijampole						0
Panevezys						0
Siauliai						0
Taurage						0
Telsiai						0
Utena						0
Vilnius						0
Total					35	0

DATA ON WILDLIFE

Year: 2001-2008

Method of estimation: hunting

Year	Estimation of the population of the concerned wild species			
	Species: foxes	Species: Raccoon dog	Species: pine martens	Species: badgers
2001	13018	4525	473	2210
2002	16949	5215	831	2689
2003	9450	3914	753	2547
2004	14052	3439	693	80
2005	15120	4178	765	2470
2006	14089	3680	652	2385
2007	15826	8560	845	2856
2008	12685	9658	952	3428

Data on vaccination or treatment of wildlife

Description of the used vaccination, therapeutic or other scheme :

The first oral vaccination of wild animals was conducted in 1995 in the area of 430 sq. km in Panevezys, Pakruojis and Joniskis districts. The VIRBAC made vaccine SAG-1 with tetracycline marker was used.

In 1996 the spring vaccination campaign was arranged in the area of 4000 sq. km in 13 districts of northern Lithuania. 100000 doses were used (appr. 25 baits per sq. km). The task was effected by hand, placing the baits in forests and bushes, by the dens. In one district (Birzai) a plane was used for completing the task.

In 1997 two vaccination campaigns in spring (May) and autumn (October-November) in the area of 5349 sq. km have been carried out. 250000 baits in 22 districts were distributed.

In 1998 the vaccination campaign was arranged in the area of 6375-7000 sq. km in 26 districts of northern and western parts of Lithuania. During the last campaign a new type of vaccine *Lysywhpen* Bioveta, made in the Czech Republic, was used. 200000 baits were distributed.

In 1999 two vaccination campaigns in 30 districts in spring (April-May), and autumn in November, using vaccine SAG-1 of Virbac with tetracycline marker and Rabifox from Dessau-Tornau, have been carried out.

In 2000 two vaccinations campaigns in 30 districts in spring and in 23 districts in autumn using the vaccine SAG-1 of Virbac with tetracycline marker and Rabifox from Dessau-Tornau, have been carried out.

In 2001 - 2004 oral vaccination of foxes in Lithuania was discontinued, because Lithuanian (government did not provide financial support for this campaign.

In 2006 two vaccinations campaigns was done. All Lithuania was covered. Total 2 100 000 baits were distributed.

In 2007 two vaccinations campaigns was done. All Lithuania was covered. Total 2 600 000 baits were distributed.

In 2008 two vaccinations campaigns was done. All Lithuania was covered. Total 2 600 000 baits were distributed.

7. TARGETS

Targets on vaccination or treatment of wildlife

Since 1995 the number of rabies cases in wild animals has increased in Lithuania. Foxes and racoon dogs appear to be the main source of rabies amongst wildlife in Lithuania. The long-term rabies eradication strategy is to minimise the number of rabies cases among domestic and wild animals and thereby reduce the possibilities of human infection as well. To achieve effective eradication of rabies in European Union the oral vaccination of wildlife should be carried out in all three Baltic States (Lithuania, Latvia and Estonia).

The evaluation of the efficiency of the oral rabies vaccination of wild life is targeted to: evaluate the efficiency of the used vaccine and to determine the percentage of consumption.

Animal species: wild animals

Disease: Rabies
Year 2010

Region	Square km	Targets on the vaccination or treatment programme			Total number of doses of vaccine or treatment expected to be administered
		Number of vaccine expected administered in the campaign	Expected campaigns	number of	
Lithuanian Republic	65000	1300000	2		2600000

Disease: Rabies
Year 2011

Animal species: wild animals

Region	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
Lithuanian Republic	65000	1300000	2	2600000

Disease: Rabies
Year 2012

Animal species: wild animals

Region	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
Lithuanian Republic	65000	1300000	2	2600000

8. DETAILED ANALYSIS OF THE COST OF THE PROGRAMME

Costs related to	Specification	Number of units	Unitary cost in €	Total amount in €	Community funding requested (yes/no)
1. Testing					
1.1. Cost of the analysis	Test: Vaccination effectiveness (tetracycline)	12000	8,7	104400	yes
	Test: Vaccination effectiveness (serology)	3000	16	48000	yes
	Test:				
1.2. Cost of sampling					
1.3. Other costs					
2. Vaccination or treatment					
2.1. Purchase of vaccine/treatment					
Purchase of vaccine in Lithuania		7 800 000	0,5	3 900 000	yes
2.2. Distribution		7 800 000	0,3	2 340 000	yes

costs in Lithuania					
2.3. Administering 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				6 392 400

8. Design of the strategy for oral vaccination of wildlife in Lithuania,

With respect to oral vaccination of wildlife, the short-term strategy is outlined as follows:

- oral vaccination of wild animals should cover all territory of Lithuania
- oral vaccination of wild animals, especially red foxes and raccoon dogs, with vaccine which should create sufficient immunity for the effectiveness of vaccination campaign against rabies, it would be great advantage if all Baltic states and Poland start this campaign at the same time and coordinate their activities;
- Rabies eradication campaign should last not less than no rabies cases will be registered + 2 years;
- compulsory vaccination of dogs and cats;
- implementation of the identification and registration system for dogs and cats;
- control of the population of stray dogs and cats.