

# **RABIES BULLETIN EUROPE**

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Principal Editor: Dr. Conrad Freuling

Associated Editor: Dr. Thomas Müller

Technical Support: Anke Kliemt  
Dr. Jens Schell  
Elke Reinking

Contact: WHO Collaborating Centre for Rabies Surveillance and  
Research  
Institute of Microbiology, Friedrich-Loeffler-Institute  
- Federal Research Institute for Animal Health -  
Südufer 10, 17493 Greifswald - Insel Riems, Germany  
tel: ..49 38351 71660/659  
fax: ..49 38351 71174  
email: who-rabies@fli.bund.de

Print: Lübke Druck&Design  
Ahornallee 9  
16818 Werder  
Tel.: +4933920/5055 - 0  
Fax: +4933920/5055 - 1  
info@druck-werbung-luebke.de

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# 1. Editorial

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During recent decades the front of the fox rabies epidemic move south on the Balkan peninsula, however for yet unknown reasons has not spread further south. The recent emergence of fox rabies in the Former Yugoslavian Republic of Macedonia showed that this is no permanent situation. During EU-coordinated meetings a joint effort of all countries affected, i.e. FYROM, Bulgaria and Greece was agreed. Greece that had the last indigenous rabies case in 1987 started an increased surveillance along the border with FYROM and Bulgaria.

The second article is a summary on the latest virus discoveries that indicated a higher diversity of the lyssavirus genus. With Shimoni bat virus (SHIBV) and Ikoma virus (IKOV) two new African lyssaviruses were discovered, the isolation of the Bokeloh bat lyssavirus in a Natterers bat from Germany indicates, that lyssaviruses may be circulating unrecognized in areas with a seemingly intensive surveillance as in Central Europe.

As usual, the rabies surveillance data is presented in tables and a map. Also, the area covered by oral rabies vaccination in Europe is provided.

Conrad Freuling  
Thomas Müller

## 2. Summary of Rabies Cases in Europe

RABIES CASES		4th QUARTER 2011		01.10.11-31.12.11		
Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	0	0	0	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS	BLR *	-	-	-	-	-
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	2	1	1	0	0
BULGARIA	BGR	0	0	0	0	0
CROATIA	HRV	98	63	35	0	0
CYPRUS	CYP	0	0	0	0	0
CZECH REPUBLIC	CZH	0	0	0	0	0
DENMARK	DNK	0	0	0	0	0
ESTONIA	EST	0	0	0	0	0
FINLAND	FIN	0	0	0	0	0
FRANCE	FRA	0	0	0	0	0
GERMANY	DEU	3	0	0	3	0
GREECE	GRC	0	0	0	0	0
HUNGARY	HUN	0	0	0	0	0
ICELAND	ISL	0	0	0	0	0
IRELAND	IRE	0	0	0	0	0
ITALY	ITA	1	0	0	0	1
LATVIA	LVA	1	0	1	0	0
LITHUANIA	LTU	4	4	0	0	0
LUXEMBOURG	LUX	0	0	0	0	0
MACEDONIA	MKD	0	0	0	0	0
MALTA	MLT	0	0	0	0	0
MOLDOVA	MDA	35	9	26	0	0
MONTENEGRO	MNE	9	8	1	0	0
NETHERLANDS	NED	1	0	0	1	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	40	32	8	0	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	151	118	33	0	0
RUSSIAN FEDERATION	RUS	458	216	240	0	2
SERBIA	SRB	9	7	2	0	0
SLOVAK REPUBLIC	SVK	0	0	0	0	0
SLOVENIA	SVN	0	0	0	0	0
SPAIN	ESP	0	0	0	0	0
SWEDEN	SWE	0	0	0	0	0
SWITZERLAND + LIEC.	CHE	0	0	0	0	0
TURKEY	TUR	72	14	58	0	0
UKRAINE	UKR	626	301	325	0	0
UNITED KINGDOM	UNK	0	0	0	0	0
<b>TOTAL</b>		<b>1510</b>	<b>773</b>	<b>730</b>	<b>4</b>	<b>3</b>

Wildlife: excluding bats

\* NO DATA



# 3. Miscellaneous Articles

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## 3. 1 Rabies Monitoring and Surveillance Programme in Greece \*

K. E. Tasioudi<sup>1</sup>, O. Mangana-Vougiouka<sup>1</sup>, S. Doudounakis<sup>2</sup>, A. Seimenis<sup>3</sup>

<sup>1</sup>Virology Department, Institute of Infectious and Parasitic Diseases, Centre of Athens of Veterinary Institutions, Ministry of Rural Development and Food, 25 Neapoleos str, 15310, Aghia Paraskevi, Athens, Greece

<sup>2</sup>Animal Health Directorate, General Directorate of Veterinary Services, Ministry of Rural Development and Food, 2 Acharnon str, Athens, Greece

<sup>3</sup>WHO-Mediterranean Zoonoses Control Center, 25 Neapoleos str, 15310, Aghia Paraskevi, Athens, Greece

### Preamble

In early December 2011, the Greek authorities were informed that rabies was detected in foxes in FYROM, very close to the borders with Greece. An urgent programme of rabies monitoring and surveillance was immediately decided to be implemented all along the northern borders of Greece with neighboring countries in order to identify animal rabies cases at an early stage. The programme was forwarded for financing by EU Commission and approved.

### Historical data

Greece maintained a rabies free disease status since 1987. This stage was gradually achieved thanks to drastic measures implemented during the previous decades, which were characterized by a serious epidemiological situation concerning rabies.

In fact, during the decade 1951-1960, the rabies cases verified among domestic animals, mainly among dogs, reached 8.226 and 53 deaths in humans. During the decade 1961-1970, the epidemiological situation was clearly changing as cases among domestic animals were reduced to 3004, while two deaths in humans were verified only. Since 1970 no more cases in humans were reported.

The data of the decade 1971-1980 indicate that the disease prevalence

was at low levels as only 242 animal cases were identified. In 1981, three cases in dogs were reported and one each in the years 1982, 1983 and 1987.

Rabies among wild animals, during the decades considered, remained at very low levels as no more than 10 cases among foxes were identified.

The decreasing rate of the disease during the period considered, is attributed to certain interconnecting factors/measures taken by the competent authorities. These were as follows:

a. Large scale vaccination of dogs  
During the period 1951-1986, the number of dogs vaccinated in the context of compulsory, free-of-charge campaigns reached 1.479.715 animals. During the following years the country-wide compulsory vaccinations were suspended, however, these continued along the borders with Albania, FYROM, Bulgaria and Turkey up to 30 km back inland. Voluntary vaccination is always encouraged and almost all owned dogs are regularly vaccinated.

b. Very low level prevalence of rabies among wild life

This fact offered the possibility for the gradual formation of a dog population immunised, in its large part, through regular vaccinations.

c. Stray dog population control

Extensive control was performed during the '80s and the '90s in the context of the joint echinococcosis-rabies control programme. The situation remains under acceptable control thanks to the collaboration with municipalities and animal welfare associations.

d. Awareness of the community

Besides the 53 human deaths that occurred during the first decade, 98.521 persons were submitted to anti-rabies treatment and several other thousands during the following years. This situation highly alarmed the population who corresponded to the authorities efforts for the implementation of prevention and educational measures and activities.

### **Legal norms for rabies in Greece**

Rabies is a notifiable disease and owned dogs and cats should be vaccinated. This vaccination is performed by private veterinarians.

In accordance to EU Directive, no 2003/99/EU, a monitoring and surveillance system is implemented and reported to the European Commission through the electronic data base of the European Food Safety Authority. Up to 2011 all data reported, based on laboratory diagnosis, were negative for rabies virus identification.

In the context of a permanent collaboration, municipalities, animal welfare associations, state veterinary and public health services and the community are regularly updated and encouraged to implement the appropriate

monitoring and preventive measures each time indicated.

### **The rabies monitoring and surveillance programme**

The purpose of the programme is the epidemiological surveillance and investigation of probable introduction of rabies infected animals into the country. This activity became necessary due to the epidemiological situation in the neighboring Balkan countries where rabies is endemic with reported cases mainly among wildlife.

The programme will be implemented during 2012 and is expected to have nine-month duration. It will include 16 prefectures along the Northern and Eastern borders of the country and in a certain distance inland.

The basic foundation of the programme are the implementation of two parallel cycles/sectors of passive surveillance activities, consisting on the systematic collection of samples from dead domestic and wild animals. For the scopes of the programme they are designed as "targets animal species and as such valuable indicator animal for the purpose of investigating eventual rabies virus appearance.

The main focus will be on red foxes as this wildlife species has the highest incidence for rabies in comparison with other animal species..

Based on the above-mentioned criteria, it was decided to collect the highest possible number of samples from the fox population. Additional samples will also be collected from other rabies suspect wild and domestic animals, such as jackals, wolves, dogs, cats, other wild carnivorous, bovine, goats, sheep, swine.

In accordance to state and private reports the density of fox population and sub-population in the country is

estimated to reach 0.3/km<sup>2</sup>, 1.7/km<sup>2</sup> for jackals, and 2/km<sup>2</sup> for wolves, respectively.

However, considering the lack of specific data regarding the population size of target animals random sampling was chosen. More specifically, for the arithmetic value (N=545) of fox samples needed, a statistical approach was used for the sample size selection, taking into consideration the following parameters: (a) population size=9.000 individuals; (b) percentage of prevalence; (c) confidence limit=95% .

All samples collected in the frame of this programme will be forwarded timely to the National Reference Laboratory for Rabies, for the implementation of the necessary laboratory tests and the special diagnosis techniques and virus identification.

#### **Notification of the disease**

Any physical or legal entity involved in live animals management is obliged to immediately notify the local veterinary services of any rabies suspect case in wild or domestic animals towards implementing immediately all the necessary procedures for further

investigation of the suspected or diseased animals.

Private veterinarians operating in the programme's implementation area are obliged to immediately notify the local veterinary authorities of any suspected clinical case.

In case of no immediate notification, penalties are imposed in accordance to the Ministerial Decree for the implementation of the programme.

#### **Identification of animals and registration of holdings**

For the scopes of the programme the registration and identification of dogs and cats of the area is imposed. Moreover, preventive vaccination of dogs and cats and of other carnivores aged more than 3 months, which are not previously vaccinated or the date of the yearly vaccination has been over passed, must be assured, under the condition of no contact or possible contact with animal positive for rabies.

Specific technical details are included for an as much as possible accurate implementation of the programme.

### 3. 2 Updates on the diversity of the Lyssavirus genus

C.M. Freuling<sup>1</sup>, T. Müller<sup>1</sup>, D. Marston<sup>2</sup>, A.R. Fooks<sup>2</sup>, C.E. Rupprecht<sup>3</sup>, I. Kuzmin<sup>3</sup>

<sup>1</sup> Institute of Molecular Biology, Friedrich-Loeffler-Institute - Federal Research Institute for Animal Health, 17493 Greifswald - Insel Riems, Germany

<sup>2</sup> Wildlife Zoonoses and Vector-Borne Diseases Research Group Animal Health and Veterinary Laboratories Agency (AHVLA), Addlestone, Surrey, UK

<sup>3</sup> Rabies Program, Centers for Disease Control and Prevention, 1600 Clifton Road, MS G-33 Atlanta, GA 30333, USA

Rabies is caused by the negative-stranded ssRNA-viruses of the *Lyssavirus* genus, family *Rhabdoviridae* of the order Mononegavirales. According to the International Committee on Taxonomy of Viruses (ICTV) the genus *Lyssavirus* is delineated into different virus species based on demarcation criteria such as genetic distances, antigenic patterns in reactions with panels of antinucleocapsid monoclonal antibodies or polyclonal sera, and ecology (including geographic distribution and host range; see table).

Lyssavirus species segregate into phylogroups (Badrane et al., 2001; Banyard et al., 2011). Phylogroup I includes Rabies virus (RABV), Duvenhage virus (DUVV), European bat lyssaviruses, type 1 and 2 (EBLV-1 and 2, respectively), Australian bat lyssavirus (ABLV), Aravan virus (ARAV), Khujand virus (KHUV), and Irkut virus (IRKV) (Hanlon et al., 2005). Phylogroup II includes Lagos bat virus (LBV), Mokola virus (MOKV), and Shimoni bat virus (SHIBV) (Badrane et al., 2001; Kuzmin et al., 2010). West Caucasian bat virus (WCBV) does not cross-react serologically with any of the two phylogroups and was proposed as a member of an independent Phylogroup III (Hanlon et al., 2005; Kuzmin et al., 2005).

In the past decades, novel lyssaviruses that are all associated with insectivorous bats were

discovered in Eurasia, including Irkut virus (IRKV), Aravan virus (ARAV), Khujand virus (KHUV) and West Caucasian bat virus (WCBV) (Arai et al., 2003; Kuzmin et al., 2005; Kuzmin et al., 2003). Although only single isolates from bats exist for each species, IRKV caused a human rabies death. In recent years, three divergent lyssaviruses have also been identified. In 2009 a bat associated lyssavirus called **Shimoni bat virus (SHIBV)** was isolated from the insectivorous Commerson's leaf-nosed bat (*Hipposideros commersoni*) in Kenya. The adult female bat was found dead in a cave in south coastal Kenya and tested positive in direct fluorescent antibody test (dFAT). SHIBV was shown to be pathogenic to laboratory mice and hamsters via intracranial and intramuscular inoculation routes, and was related to LBV and MOKV. Based on the available demarcation criteria, SHIBV is now considered a viral species within *Lyssavirus* genus (ICTV, 2012).

In 2010 a novel bat lyssavirus was detected in a Natterer's bat (*Myotis nattererii*) in Germany and was named **Bokeloh bat lyssavirus (BBLV)** (Freuling et al., 2011) The bat was initially found during daytime in November 2009 and was taken to a bat handler for rehabilitation and eventual return to the wild. In February 2010 the bat began to behave aggressively, showed targeted, directed approach

to any moving object, and tried vigorously to bite. Ten days after the recognition of first clinical signs the bat succumbed and was submitted for rabies diagnosis. Initial dFAT results were corroborated by RTCIT and immune-histochemistry. However, the reaction pattern of the isolate performed with a panel of 10 anti-nucleocapsid mAbs in cell-culture clearly differentiated the isolated virus from EBLV-1 and 2 and other lyssaviruses based on positive

reactions of monoclonal antibodies. Also, EBLV-1 / 2 specific RT-PCR and realtime RT-PCR failed to detect viral RNA and only a hemi-nested RT-PCR gave a positive result. Subsequently, partial and full genome sequence analysis supported the results of monoclonal typing (Freuling et al., 2011). Presently, comparative pathogenicity studies to between BBLV and EBLVs are being undertaken

<b>Virus species</b>	<b>Potential vector/reservoir</b>	<b>Distribution</b>
<i>Rabies virus</i> (type species)	Carnivores (worldwide); bats (Americas)	Worldwide (except several islands)
<i>Lagos bat virus</i>	Frugivorous bats ( <i>Megachiroptera</i> )	Sub-Saharan Africa
<i>Mokola virus</i>	? (isolated from Shrews)	Sub-Saharan Africa
<i>Duvenhage virus</i>	Insectivorous bats	Sub-Saharan Africa
<i>European bat lyssavirus 1</i>	Insectivorous bats ( <i>Eptesicus serotinus</i> )	Europe
<i>European bat lyssavirus 2</i>	Insectivorous bats ( <i>Myotis daubentonii</i> , <i>M. dasycneme</i> )	Europe
<i>Australian bat lyssavirus</i>	Frugivorous/insectivorous bats ( <i>Megachiroptera/Microchiroptera</i> )	Australia
<i>Aravan virus</i>	Insectivorous bats ( <i>Myotis blythi</i> )	Central Asia
<i>Khujand virus</i>	Insectivorous bats ( <i>Myotis mystacinus</i> )	Central Asia
<i>Irkut virus</i>	Insectivorous bats ( <i>Murina leucogaster</i> )	East Siberia
<i>West Caucasian bat virus</i>	Insectivorous bats ( <i>Miniopterus schreibersi</i> )	Caucasian region
<i>Shimoni bat virus</i>	<i>Hipposideros commersoni</i>	East Africa
Bokeloh bat lyssavirus*	Insectivorous bats ( <i>Myotis nattereri</i> )	Europe
Ikoma lyssavirus*	? (isolated from <i>Civettictis civetta</i> )	Africa

\*not yet approved by ICTV

In May 2009, an African civet (*Civettictis civetta*) suspected of having rabies was killed in the Serengeti National Park, Kenya. In an unprovoked attack the civet had bitten a child, who was treated and given a post-exposure rabies vaccine. Results of laboratory testing, i.e the dFAT and a direct rapid immunohistochemistry test (dRIT) were positive for lyssavirus-specific antigen. When further analyzed at the Animal Health and Veterinary Laboratories Agency (AHVLA, Weybridge, UK) the isolated virus named **Ikoma Lyssavirus (IKOV)** was genetically significantly different from all previously known lyssaviruses with distant relatedness to WCBV (Marston et al., 2012).

Concerns remain regarding the effectiveness of current human rabies vaccines against this new lyssavirus given a general lack of evidence for adequate protection of licensed biologics against non-phylogroup I lyssaviruses (Both et al., 2012). Further studies will be undertaken to address these concerns.

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## 4. Distribution of Rabies in Europe

### 4.1 Country summaries of rabies cases, 4th quarter 2011

01.10.11-31.12.11

Country		Domestic animals									Wildlife										bat	Human cases	total						
Name	Code	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal	bat	Human cases	total	
Albania	ALB *									0															0			0	
Austria	AUT *									0																0			0
Belarus	BLR **									0																0			0
Belgium	BEL *									0																0			0
Bosnia - Hercegovina	BIH			1						1	1														1			2	
Bulgaria	BGR *									0																0			0
Croatia	HRV		1	2	3	29				35	63														63			98	
Cyprus	CYP *									0																0			0
Czech Republic	CZH *									0																0			0
Denmark	DNK *									0																0			0
Estonia	EST *									0																0			0
Finland	FIN *									0																0			0
France	FRA *									0																0			0
Germany	DEU									0																0	3		3
Greece	GRC *									0																0			0
Hungary	HUN *									0																0			0
Iceland	ISL *									0																0			0
Ireland	IRE *									0																0			0
Italy	ITA									0																0	1		1
Latvia	LVA				1					1																0			1
Lithuania	LTU									0	1	2			1											4			4
Luxembourg	LUX *									0																0			0
Macedonia	MKD *									0																0			0
Malta	MLT *									0																0			0
Moldova	MDA	7	3	15	1					26	8								1						9			35	
Montenegro	MNE	1								1	8															8			9
Norway	NOR *									0																0			0
Poland	POL	1	3	4						8	27	1			1	2							1		32			40	
Portugal	PRT *									0																0			0
Romania	ROU	10	6	10	2	5				33	115	1			2										118			151	
Russian Federation	RUS	87	107	42		3	1			240	158	45		6	1	1	2	1	1					1	216	2		458	
Serbia	SRB		1			1				2	7															7			9
Slovak Republic	SVK *									0																0			0
Slovenia	SVN *									0																0			0
Spain	ESP *									0																0			0
Sweden	SWE *									0																0			0
Switzerland + Lichtenstein	CHE *									0																0			0
The Netherlands	NED									0																0	1		1
Turkey	TUR	17	3	27	6	5				58	10			2	2										14			72	
Ukraine	UKR	99	146	66	1	11			2	325	277	10	3	1	2	8									301			626	
United Kingdom	UNK *									0																0			0
<b>TOTAL</b>		<b>222</b>	<b>270</b>	<b>167</b>	<b>14</b>	<b>54</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>730</b>	<b>675</b>	<b>59</b>	<b>3</b>	<b>9</b>	<b>7</b>	<b>13</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>773</b>	<b>4</b>	<b>3</b>	<b>1510</b>		
<b>PER CENT</b>		<b>14.7%</b>	<b>17.9%</b>	<b>11.1%</b>	<b>0.9%</b>	<b>3.6%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>48.3%</b>	<b>44.7%</b>	<b>3.9%</b>	<b>0.2%</b>	<b>0.6%</b>	<b>0.5%</b>	<b>0.9%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>51.2%</b>	<b>0.3%</b>	<b>0.2%</b>	<b>100%</b>		

\* no cases

\*\* no data

## 4.2 Country summaries of rabies cases, 2011 total

01.01.11-31.12.11

Country		Domestic animals									Wildlife											bat	Human cases	total			
		dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
Name	Code																										
Albania	ALB *								0														0			0	
Austria	AUT *								0															0			0
Belarus	BLR	130	103	60	3	3	1		1	301	574	80		2	2	20	2						11	691	1	993	
Belgium	BEL *									0														0			0
Bosnia - Herzegovina	BIH	4		2		2				8	8													8			16
Bulgaria	BGR									0	1													1			1
Croatia	HRV	3	7	5	5	32				52	320				2				1					323			375
Cyprus	CYP *									0														0			0
Czech Republic	CZH *									0														0			0
Denmark	DNK *									0														0			0
Estonia	EST									0		1												1			1
Finland	FIN *									0														0			0
France	FRA	1								1														0	6		7
Germany	DEU									0														0	11		11
Greece	GRC *									0														0			0
Hungary	HUN									0														0	2		2
Iceland	ISL *									0														0			0
Ireland	IRE *									0														0			0
Italy	ITA									0	1													1	1		2
Latvia	LVA				1					1														0			1
Lithuania	LTU	1		1						2	4	7			1									12			14
Luxembourg	LUX *									0														0			0
Macedonia	MKD									0	4			2										6			6
Malta	MLT *									0														0			0
Moldova	MDA	15	5	19	1	2	2			44	17						1							18			62
Montenegro	MNE	1				1				2	13												1	14			16
Norway	NOR *									0														0			0
Poland	POL	8	10	14			1	1		34	103	2			4	9				2		1	1	122	4		160
Portugal	PRT *									0														0			0
Romania	ROU	41	20	23	5	8	1			98	234	1			2	3	2	1			1			244			342
Russian Federation	RUS	386	333	161	5	54	1	23		963	827	140		11	5	8	15	3	4	2		2	17	1034	10		2007
Serbia	SRB	2	3	1	1	1				8	38													38			46
Slovak Republic	SVK *									0														0			0
Slovenia	SVN *									0														0			0
Spain	ESP									0														0	2		2
Sweden	SWE *									0														0			0
Switzerland + Lichtenstein	CHE *									0														0			0
The Netherlands	NED									0														0	7		7
Turkey	TUR	99	10	109	12	21				251	38			7	3		1							49			300
Ukraine	UKR	276	401	122	3	22	1		2	827	542	22	4	2	4	25							3	602	1		1430
United Kingdom	UNK *									0														0			0
<b>TOTAL</b>		<b>967</b>	<b>892</b>	<b>517</b>	<b>36</b>	<b>146</b>	<b>7</b>	<b>24</b>	<b>3</b>	<b>2592</b>	<b>2724</b>	<b>253</b>	<b>4</b>	<b>24</b>	<b>19</b>	<b>66</b>	<b>20</b>	<b>7</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>33</b>	<b>3164</b>	<b>33</b>	<b>12</b>	<b>5801</b>
<b>PER CENT</b>		<b>16.7%</b>	<b>15.4%</b>	<b>8.9%</b>	<b>0.6%</b>	<b>2.5%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>44.7%</b>	<b>47.0%</b>	<b>4.4%</b>	<b>0.1%</b>	<b>0.4%</b>	<b>0.3%</b>	<b>1.1%</b>	<b>0.3%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.6%</b>	<b>54.5%</b>	<b>0.6%</b>	<b>0.2%</b>	<b>100%</b>

\* no cases

\*\* no data



## 4.3 Rabies cases per country and administrative units, 4th quarter 2011

01.10.11-31.12.11

Location	Domestic animals										Wildlife											bat	Human cases	total			
	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
<b>BOSNIA - HERCEGOVINA</b>																											
Bosnia-Hercegovina			1						1	1														1			2
TOTAL	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
PER CENT	0.0%	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100%	
<b>CROATIA</b>																											
Bjelovarsko - Bilogorska									0	2													2			2	
Koprivnisko - Krizevaska									0	2													2			2	
Krapinsko - Zagorska									0	1													1			1	
Osjesko - Baranjska									0	3													3			3	
Pozesko - Slovanska			1	1	2				4	8													8			12	
Sisacko - Moslovačka		1	1	2	27				31	18													18			49	
Špišsko - Dalmatinska									0	7													7			7	
Varaždinska									0	11													11			11	
Virotičko - Podravska									0	1													1			1	
Vukovarsko - Srijemska									0	2													2			2	
Zadarska									0	2													2			2	
Zagrebacka									0	6													6			6	
TOTAL	0	1	2	3	29	0	0	0	35	63	0	0	0	0	0	0	0	0	0	0	0	0	63	0	0	98	
PER CENT	0.0%	1.0%	2.0%	3.1%	29.6%	0.0%	0.0%	0.0%	35.7%	64.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.3%	0.0%	0.0%	100%	
<b>GERMANY</b>																											
Hamburg,Stadt									0														0	1		1	
Leer									0														0	1		1	
Sankt Wendel									0														0	1		1	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	
PER CENT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100%	
<b>ITALY</b>																											
Mantova									0														0		1	1	
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
PER CENT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100%	
<b>LATVIA</b>																											
Kraslava r.				1					1														0			1	
TOTAL	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
PER CENT	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%	

## 4.3 Rabies cases per country and administrative units, 4th quarter 2011 (continued)

01.10.11-31.12.11

Location	Domestic animals										Wildlife											bat	Human cases	total			
	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
<b>ROMANIA</b>																											
Arad									0	5														5			5
Bistrita-Nasaud									0	5														5			5
Bolohani				1					1	1														1			2
Brasov			1						1	13														13			14
Buzau									0	2														2			2
Calarasi	1				1				2	1														1			3
Caras-Severin	1								1	1														1			2
Covasna									0	1														1			1
Dambovita	1	1							2	4														4			6
Galati									0	1														1			1
Giurgiu									0	1														1			1
Gorj									0	6														6			6
Harghita	2								2	5														5			7
Hunedoara									0	4														4			4
Iasi									0	8														8			8
Maramures		1							1	2														2			3
Mures		1							1	4														4			5
Neamt									0	1														1			1
Olt		1		1	4				6															0			6
Prahova		1							1	6														6			7
Salaj	1		1						2	3														3			5
Satu Mare	2								2	2														2			4
Sibiu	1								1	11														11			12
Suceava	1		6						7	23					2									25			32
Tulcea									0	1														1			1
Valcea									0	3														3			3
Vaslui		1	2						3															0			3
Vrancea									0	2														2			2
<b>TOTAL</b>	<b>10</b>	<b>6</b>	<b>10</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>115</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>118</b>	<b>0</b>	<b>0</b>	<b>151</b>
PER CENT	6.6%	4.0%	6.6%	1.3%	3.3%	0.0%	0.0%	0.0%	21.9%	76.2%	0.7%	0.0%	0.0%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	78.1%	0.0%	0.0%	100%
<b>POLAND</b>																											
Lubelskie									0	3														3			3
Malopolskie		2	1						3	11					1						1			13			16
Podkarpackie	1		2						3	11	1				1									13			16
Podlaskie		1							1					1										1			2
Slaskie									0	1														1			1
Warmińsko-Mazurskie			1						1	1														1			2
<b>TOTAL</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>27</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>32</b>	<b>0</b>	<b>0</b>	<b>40</b>
PER CENT	2.5%	7.5%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	67.5%	2.5%	0.0%	0.0%	2.5%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.5%	0.0%	80.0%	0.0%	0.0%	100%

## 4.3 Rabies cases per country and administrative units, 4th quarter 2011 (continued)

01.10.11-31.12.11

Location	Domestic animals										Wildlife											bat	Human cases	total			
	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
<b>RUSSIAN FEDERATION</b>																											
Astrahanskaja obl.	2	9								11														0		11	
Belgorodskaja obl.	8	7			1					16	8													8		24	
Brjanskaja obl.	2	1								3	4													4		7	
Cecenskaja resp.			2							2	1													1		3	
Cuvasskaja resp.		3	1							4						1								1		5	
Dagestan resp.			6							6														0		6	
Ivanovskaja obl.										0					1									1		1	
Jaroslavskaja obl.	2	2								4	5	3												8		12	
Kabardino-Balkanskaja resp.	2	2								4														0		4	
Kaliningradskaja obl.	1									1	1													1		2	
Kalmykija resp.	2	1								3														0		3	
Kaluzskaja obl.	3	3	2							8	17	4												21		29	
Karacaev-Cerkesskaja resp.	1		1							2							1							1		3	
Krasnodarskij kr.	2									2	1		2											3	1	6	
Kurskaja obl.			2							2	2	1												3	5	5	
Lipeckaja obl.	1	2	9							12	8													8		20	
Marij El resp.			1							1														0		1	
Mordovija resp.										0	2													2		2	
Moskovskaja obl.	8	6			1					15	46	13											1	60		75	
Moskva g.		1								1														0		1	
Nizegorodskaja obl.		2								2	2													2		4	
Orlovskaja obl.	1	2	1							4														0		4	
Penzenskaja obl.	2	1	2			1				6	8													8		14	
Pskovskaja obl.	1									1	4	4		1										9		10	
Rjazanskaja obl.	1	1								2	1													1		3	
Rostovskaja obl.	2	4	1							7	8		2											10		17	
Samarskaja obl.	3									3	2							1						3		6	
Sarabvskaja obl.	4	7	1							12	5													5		17	
Sevemaja Osetija-Alanija resp.	6	3	4							13														0		13	
Smolenskaja obl.	8	5	1		1					15	10	13	2											25		40	
Stavropolskij kr.	8	5	2							15														0		15	
Tambovskaja obl.		1	1							2	3													3		5	
Tu'skaja obl.	8	8	3							19	10					1								11		30	
Tverskaja obl.	5									5	1	7												8	1	14	
Uljanovskaja obl.	2	1								3	1													1		4	
Vladimirska obl.	1	5								6	6													6		12	
Volgogradskaja obl.	1	23	1							25	1													1		26	
Voronezskaja obl.		2	1							3	1													1		4	
<b>TOTAL</b>	<b>87</b>	<b>107</b>	<b>42</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>240</b>	<b>158</b>	<b>45</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>216</b>	<b>0</b>	<b>2</b>	<b>458</b>
<b>PER CENT</b>	<b>19.0%</b>	<b>23.4%</b>	<b>9.2%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>52.4%</b>	<b>34.5%</b>	<b>9.8%</b>	<b>0.0%</b>	<b>1.3%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.4%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.2%</b>	<b>47.2%</b>	<b>0.0%</b>	<b>0.4%</b>	<b>100%</b>	

## 4.3 Rabies cases per country and administrative units, 4th quarter 2011 (continued)

01.10.11-31.12.11

Location	Domestic animals										Wildlife											bat	Human cases	total		
	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other
<b>TURKEY</b>																										
Adiyaman	1								1															0		1
Antalya			1						1															0		1
Aydin		1	3						4	2														2		6
Balikesir		1	1						2															0		2
Çanakkale			2						2															0		2
Diyarbakir	1			1					2															0		2
Elazığ			3	1					4	1			1											2		6
Erzincan	1				1				2															0		2
Erzurum	1		1						2															0		2
Eskisehir	1				2				3															0		3
Giresun	1								1															0		1
Gümüşhane			1						1															0		1
Hatay			1	1					2															0		2
Isparta		1							1															0		1
Istanbul	1								1															0		1
Izmir	2		4		2				8	1				1										2		10
Kars	2								2				1											1		3
Konya	3		6						9	6				1										7		16
Malatya				1					1															0		1
Manisa			1						1															0		1
Mardin	1			1					2															0		2
Sanliurfa	1		3	1					5															0		5
Trabzon	1								1															0		1
<b>TOTAL</b>	<b>17</b>	<b>3</b>	<b>27</b>	<b>6</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>58</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>72</b>
<b>PER CENT</b>	<b>23.6%</b>	<b>4.2%</b>	<b>37.5%</b>	<b>8.3%</b>	<b>6.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>80.6%</b>	<b>13.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>2.8%</b>	<b>2.8%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>19.4%</b>	<b>0.0%</b>	<b>100%</b>
<b>THE NETHERLANDS</b>																										
Gelderland									0															0	1	1
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>PER CENT</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100%</b>
<b>LITHUANIA</b>																										
Utenos									0		2													2		2
Vilniaus									0	1			1											2		2
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>4</b>
<b>PER CENT</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>25.0%</b>	<b>50.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>25.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>100%</b>
<b>MONTENEGRO</b>																										
Montenegro	1								1	8														8		9
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>9</b>
<b>PER CENT</b>	<b>11.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>11.1%</b>	<b>88.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>88.9%</b>	<b>0.0%</b>	<b>100%</b>

## 4.3 Rabies cases per country and administrative units, 4th quarter 2011 (continued)

01.10.11-31.12.11

Location	Domestic animals										Wildlife										bat	Human cases	total				
	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer				red deer	fallow deer	other	subtotal
<b>UKRAINE</b>																											
Avtonomnaya Respublika Krym		2							2	1														1		3	
Bolynskaja o.		1	1						2	1														1		3	
Cherkasskaja o.	4	12	7		1				24	9	2													11		35	
Chernigovskaja o.	4	9	1						14	2	3													5		19	
Chernovitskaja o.	2	4							6	1														1		7	
Dnepropetrovskaja o.	2	7	2						11	8	1													9		20	
Donetskaja o.	15	11	5		2				33	23	1													24		57	
Ivano-Frankovskaja o.	1								1	2														2		3	
Khar'kovskaja o.	4	6							10	3														3		13	
Khersonskaja o.		4	3		1				8	1		1												2		10	
Khmel'nitskaja o.	9	7	11	1	1				29	28					2									30		59	
Kirovogradskaja o.	12	11	4		3				30	18		1	1		1									21		51	
Kiyev g.	5	2							7	3														3		10	
Kiyevskaja o.	3	19	2						24	1				2										3		27	
Luganskaja o.	5	4	2		1				12	3														3		15	
L'vovskaja o.									0	2														2		2	
Nikolajevskaja o.		3	3						6	5														5		11	
Odesskaja o.	3	7	1						11	8														8		19	
Poltavskaja o.		2							2	2														2		4	
Rovenskaja o.		2							2	1														1		3	
Sumskaja o.	5	8	5		1				19	2														2		21	
Ternopol'skaja o.	6	5	2				1		14	5				1										6		20	
Vinnitskaja o.	5	10	4				1		20	127				2	1									130		150	
Zakarpatskaja o.		2							2	1														1		3	
Zaporozhskaja o.	8	4	6		1				19	12	3				1									16		35	
Zhitomirskaja o.	6	4	7						17	8		1												9		26	
<b>TOTAL</b>	<b>99</b>	<b>146</b>	<b>66</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>325</b>	<b>277</b>	<b>10</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>301</b>	<b>0</b>	<b>0</b>	<b>626</b>
<b>PER CENT</b>	<b>15.8%</b>	<b>23.3%</b>	<b>10.5%</b>	<b>0.2%</b>	<b>1.8%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>51.9%</b>	<b>44.2%</b>	<b>1.6%</b>	<b>0.5%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>1.3%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>48.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100%</b>
<b>SERBIA</b>																											
Serbia		1			1				2	7														7		9	
<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>9</b>	
<b>PER CENT</b>	<b>0.0%</b>	<b>11.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>11.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>22.2%</b>	<b>77.8%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>77.8%</b>	<b>0.0%</b>	<b>100%</b>	
<b>MOLDOVA</b>																											
Moldova	7	3	15	1					26	8							1							9		35	
<b>TOTAL</b>	<b>7</b>	<b>3</b>	<b>15</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>35</b>	
<b>PER CENT</b>	<b>20.0%</b>	<b>8.6%</b>	<b>42.9%</b>	<b>2.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>74.3%</b>	<b>22.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>2.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>25.7%</b>	<b>0.0%</b>	<b>100%</b>	

#### 4.4 Summary of animals tested for rabies in Europe (total 2011)

Animal Tested

01.01.11-31.12.11

Name	Code	Total	Wildlife	Domestic animals	Bats	Remarks
ALBANIA	ALB	0				
AUSTRIA	AUT*	626	576	17	33	
BELARUS	BLR	211	40	171	0	
BELGIUM	BEL*	544	42	486	16	
BOSNIA - HERCEGOVINA	BIH	96	35	61	0	
BULGARIA	BGR	804	789	15	0	
CROATIA	HRV	4850	4253	597	0	
CYPRUS	CYP*	0				
CZECH REPUBLIC	CZH*	3308	3090	204	14	
DENMARK	DNK*	17	1	6	10	
ESTONIA	EST	245	190	55	0	
FINLAND	FIN*	513	466	34	13	
FRANCE	FRA*	1624	106	1238	280	
GERMANY	DEU*	11458	10679	661	118	
GREECE	GRC*	8	0	8	0	
HUNGARY	HUN	5456	4650	788	18	
ICELAND	ISL*	0				
IRELAND	IRE*	0				
ITALY	ITA	6669	5604	854	211	
LATVIA	LVA	549	432	117	0	
LITHUANIA	LTU	859	670	189	0	
LUXEMBOURG	LUX*	0				
MACEDONIA	MKD	166	164	2	0	
MALTA	MLT*	0				
MOLDOVA	MDA	78	9	50	19	
MONTENEGRO	MNE	67	67	0	0	
NETHERLANDS	NED*	182	10	15	157	
NORWAY	NOR*	0				
POLAND	POL	26048	24179	1720	149	
PORTUGAL	PRT*	0				
ROMANIA	ROU	214	102	112	0	
RUSSIAN FEDERATION	RUS	0				
SERBIA	SRB	351	158	192	1	
SLOVAK REPUBLIC	SVK	3623	3322	299	2	
SLOVENIA	SVN	184	158	26	0	
SPAIN	ESP*	162	54	54	54	
SWEDEN	SWE*	0				
SWITZERLAND + LIEC.	CHE*	105	28	49	28	
TURKEY	TUR	828	42	784	2	
UKRAINE	UKR	10936	7518	3410	8	
UNITED KINGDOM	UNK*	446	1	9	436	
<b>TOTAL</b>		<b>81227</b>	<b>67435</b>	<b>12223</b>	<b>1569</b>	

Wildlife: excluding bats

\* rabies free

## 4.5 Trend tables

### 4.5.1 Comparison of the reporting quarter (IV/2011) with the previous quarter (III/2011)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	IV 2011 (no.)	III 2011 (no.)	Difference	IV 2011 (no.)	III 2011 (no.)	Difference	IV 2011 (no.)	III 2011 (no.)	Difference	IV 2011 (no.)	III 2011 (no.)	Difference	IV 2011 (no.)	III 2011 (no.)	Difference
Albania															
Austria															
Belarus	*	292		*	194		*	97		*			*	1	
Belgium															
Bosnia - Hercegovina	2	7	-5	1	4	-3	1	3	-2						
Bulgaria															
Croatia	98	55	43	63	53	10	35	2	33						
Cyprus															
Czech Republic															
Denmark															
Estonia															
Finland															
France		5	-5					1	-1		4	-4			
Germany	3	5	-2							3	5	-2			
Greece															
Hungary		2	-2								2	-2			
Iceland															
Ireland															
Italy	1		1										1		1
Latvia	1		1				1		1						
Lithuania	4	1	3	4		4		1	-1						
Luxembourg															
Macedonia		1	-1		1	-1									
Malta															
Moldova	35	7	28	9	3	6	26	4	22						
Montenegro	9	4	5	8	3	5	1	1							
Norway															
Poland	40	47	-7	32	32		8	12	-4		3	-3			
Portugal															
Romania	151	64	84	118	42	76	33	25	8						
Russian Federation	458	404	54	216	208	8	240	191	49				2	5	-3
Serbia	9	5	4	7	4	3	2	1	1						
Slovak Republic															
Slovenia															
Spain		1	-1								1	-1			
Sweden															
Switzerland + Lichtenstein															
The Netherlands	1		1							1		1			
Turkey	72	83	-11	14	12	2	58	71	-13						
Ukraine	626	248	378	301	103	198	325	144	181		1	-1			
United Kingdom															
<b>TOTAL</b>	<b>1510</b>	<b>1231</b>	<b>568</b>	<b>773</b>	<b>659</b>	<b>308</b>	<b>730</b>	<b>553</b>	<b>274</b>	<b>4</b>	<b>16</b>	<b>-12</b>	<b>3</b>	<b>6</b>	<b>-2</b>

Wildlife: excluding bats

IV/2011 (no.), III/2011 (no.): number of cases

Difference: no. of cases in IV/2011 minus cases in III/2011

\* no data

#### 4.5.1 Comparison of the reporting quarter (IV/2011) with the previous quarter (III/2011)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	IV 2011 (no.)	IV 2010 (no.)	Difference	IV 2011 (no.)	IV 2010 (no.)	Difference	IV 2011 (no.)	IV 2010 (no.)	Difference	IV 2011 (no.)	IV 2010 (no.)	Difference	IV 2011 (no.)	IV 2010 (no.)	Difference
Albania															
Austria															
Belarus	*	305		*	207		*	98		*			*		
Belgium															
Bosnia - Hercegovina	2	1	1	1		1	1	1							
Bulgaria															
Croatia	98	146	-48	63	127	-64	35	19	16						
Cyprus															
Czech Republic															
Denmark															
Estonia															
Finland															
France		2	-2								2	-2			
Germany	3		3							3		3			
Greece															
Hungary		2	-2		2	-2									
Iceland															
Ireland															
Italy	1	2	-1		2	-2							1		1
Latvia	1	1			1	-1	1		1						
Lithuania	4	11	-7	4	11	-7									
Luxembourg															
Macedonia															
Malta															
Moldova	35	20	15	9	5	4	26	15	11						
Montenegro	9	7	2	8	5	3	1	2	-1						
Norway															
Poland	40	107	-67	32	91	-59	8	16	-8						
Portugal															
Romania	151	83	68	118	58	60	33	25	8						
Russian Federation	458	869	-411	216	436	-220	240	431	-191				2	2	
Serbia	9	23	-14	7	21	-14	2	2							
Slovak Republic															
Slovenia															
Spain															
Sweden															
Switzerland + Lichtenstein															
The Netherlands	1	1								1	1				
Turkey	72	53	19	14	4	10	58	49	9						
Ukraine	626	519	107	301	185	116	325	334	-9						
United Kingdom															
<b>TOTAL</b>	<b>1510</b>	<b>2152</b>	<b>-337</b>	<b>773</b>	<b>1155</b>	<b>-175</b>	<b>730</b>	<b>992</b>	<b>-164</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>

Wildlife: excluding bats

IV/2011 (no.), IV/2010 (no.): number of cases

Difference: no. of cases in IV/2011 minus cases in IV/2010

\* no data



# List of Contributors

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## **ALB Albania**

Ass. Prof. Dr. Dragush Mati  
Ministry of Agriculture and Food  
Directorate of Veterinary Service  
Tirana /Albania  
Tel: +355 4 222 539  
Fax: +355 4 222 539  
E-mail: vetdirector@albaniaonline.com

## **AUT Austria**

Mag. Ulrich Herzog, CVO  
Bundesministerium für Gesundheit und  
Frauen  
Bereich IV/B (Verbraucher-Gesundheit)  
Radetzkystraße 2  
A-1030 Wien  
Tel. +43-1-7 11 00-4824  
Fax +43-1-7 10 41 51  
E-mail: ulrich.herzog@bmgf.gv.at

## **BLR Belarus**

Dr. A.M. Axenov  
Head of the Central Board of Veterinary  
Medicine  
Ministry of Agriculture and Food  
Kirova 15  
Minsk /Belarus  
Tel: +375-17-227 6623  
Fax: +375-17-227 42 96  
+375-17-227 57 54  
E-mail: vetinsp@mshp.minsk.by

## **BEL Belgium**

Dr. Pierre Naassens, CVO  
AFSCA – Agence fédérale pour la  
Sécurité de la Chaîne alimentaire  
Direction Générale de la Politique de  
Contrôle  
55, Boulevard du Jardin Botanique  
B-1000 Bruxelles  
Tel. +32-2-211 86 42  
Fax +32-2-211 86 30

Dr. Michaël Vandecan  
AFSCA – Agence fédérale pour la  
Sécurité de la Chaîne alimentaire  
Direction Générale de la Politique de  
Contrôle  
55, Boulevard du Jardin Botanique  
B-1000 Bruxelles  
Tel. +32-2-211 85 89  
Fax +32-2-211 86 30

Responsible experts:  
Dr. Ingrid Le Roux  
Dr. Steven Van Gucht

Rabies Laboratory, Contagious and  
Transmittable Diseases  
Rue Engelandstraat 642;  
1180 Brussels, Belgium  
Tel.: +32(0)2 373 3256  
Fax: +32(0)2 373 3286

Dr. Bernard Brochier  
Service Maladies Virales/  
Dienst Virale Ziekten  
Direction Opérationnelle Maladies  
Transmissibles et Infectieuses  
Operationele Directie Overdraagbare en  
Besmettelijke Ziekten  
Rue Juliette Wytmanstraat 14  
1050 Brussels  
Tel.: +32(0)2 373 3161  
E-mail: Bernard.Brochier@wiv-isp.be  
Institut Scientifique de Santé Publique  
Wetenschappelijk Instituut  
Volksgezondheid

## **BIH Bosnia and Herzegovina**

Department of Infectious Diseases  
Veterinary Faculty Sarajevo  
Zmaja od Bosne 90  
Sarajevo 71000 /Bosnia and  
Herzegovina  
Tel: +387-61-160 361  
E-mail: vetzar@bih.net.ba

Dr. Sc. Drago N. Nedic  
Ministry Agriculture, Forestry and  
Water Management of Republika Srpska  
Milosa Obilica 51  
76300 Bijeljina, Republika Srpska  
Bosnia and Herzegovina  
Tel: +387-55-401 812,  
-211 506  
-403 508  
Fax: +387-55-403 508  
-472 353  
E-mail: nedicd@rstel.net  
nedicd@vetservice.org  
Web: www.vetservice.org

**BUL Bulgaria**

Dr. Petya Petkova  
National Veterinary Service  
Animal Health Directorate  
15A "Pencho Slaveikov" blvd.  
1606 Sofia, Bulgaria  
Tel: +359 2 915 98 42  
Fax: +359 2 952 38 35

**HVR Croatia**

Dr. Ljerka Zeba  
Veterinary Administration  
Ministry of Agriculture and Forestry  
Vukovarska 78  
10000 Zagreb, Republic of Croatia  
Tel: +385 1 6106207  
Fax: +385 1 6109207  
E-mail: [ljerka.zeba@mps.hr](mailto:ljerka.zeba@mps.hr)

**CYP Cyprus**

Dr. P. Economides, CVO  
Director of Veterinary Services  
Ministry of Agriculture, Natural  
Resources and Environment - Veterinary  
Services -  
1417 Nicosia /Cyprus  
Tel. +357-2-80 52 0  
Fax +357-2-33 28 03  
E-mail [vet.services@cytanet.com.cy](mailto:vet.services@cytanet.com.cy)

**CZH Czech Republic**

MVDr. Josef Vitásek  
State Veterinary Administration CR  
Slezská 7  
CZ - 120 00 Praha 2 / Czech Republic  
Tel.: +420 - 227 010 144  
Fax : +420 - 227 010 195  
E-mail: [j.vitasek@svsscr.cz](mailto:j.vitasek@svsscr.cz)

Responsible expert:

MVDr. Ivan Nágl  
National Reference Laboratory for Rabies  
State Veterinary Institute Prague  
Sídlištní 136/24  
CZ -165 03 Praha 6 - Lysolaje  
Tel. +420 251 031 281  
Fax +420 220 920 655  
E-mail: [i.nagl@svupraha.cz](mailto:i.nagl@svupraha.cz)

**DNK Denmark**

Dr. Jan Mousing, CVO  
Ministry for Food, Agriculture and  
Fisheries  
Danish Veterinary and Food  
Administration  
Mørkhøj Bygade 19  
DK-2860 Søborg  
Tel.: +45 33 95 60 00  
Fax: +45 33 95 60 01  
Email: [jam@fvst.dk](mailto:jam@fvst.dk)

Responsible expert:

Dr. Pia Vestergaard  
Ministry for Food, Agriculture and  
Fisheries  
Danish Veterinary and Food  
Administration  
Mørkhøj Bygade 19  
DK-2860 Søborg  
Tel.: +45 33 95 65 96  
Fax: +45 39 67 52 48  
Email: [pv@fvst.dk](mailto:pv@fvst.dk)

**EST Estonia**

Dr. Matti Nautras, CVO  
Head of Animal Health Department  
Veterinary and Food Broad of Estonia  
Väike-Paala-Street 3  
11415 Tallinn /Estonia  
Tel. +372-605 1732  
Fax +372-638 0210  
E-mail [nautras@vet.agri.ee](mailto:nautras@vet.agri.ee)  
Responsible expert:  
Dr. Külli Must  
Head of Department  
Veterinary and Food Laboratory  
Kreutzwaldi 30  
51006 Tartu /Estonia  
Tel: +372-742 1246  
Fax: +372-742 1730  
E-mail: [kylli@vetlab.ee](mailto:kylli@vetlab.ee)

**FIN Finland**

Director General Dr. Matti Aho, CVO  
Ministry of Agriculture and Forestry  
Department of Food and Health  
PO BOX 30  
FI-00023 Government  
Finland  
Tel: +358 9 160 53380  
Fax: +358 9 1605 4777,  
+358-9-1605 3338  
E-mail [cvo-finland@mmm.fi](mailto:cvo-finland@mmm.fi)

Responsible expert:

Tiia Tuupanen  
Finnish Food Safety Authority Evira  
Mustialankatu 3, FI-00790 Helsinki,  
Finland  
tel. +358 40 489 3348  
fax +358 20 77 24355  
E-mail: [tiia.tuupanen@evira.fi](mailto:tiia.tuupanen@evira.fi)  
Web: [www.mmm.fi](http://www.mmm.fi)

**FRA France**

Dr. Florence Cliquet  
ANSES  
Nancy laboratory for rabies and wildlife  
Technopôle Agricole et Vétérinaire  
BP 40009  
54220 Malzéville, France  
Tel: +33-3-83.29.89.50  
Fax: +33-3-83.29.89.59  
E-mail: f.cliquet@nancy.afssa.fr  
Web: www.anses.f

**DEU Germany**

Dr. Karin Schwabenbauer, CVO  
Fed. Ministry of Food, Agriculture and  
Consumer Protection  
PF 14 02 70, D-53103 Bonn, Germany  
Tel: +49 228 529 41 5  
Fax: +49 228 529 35 53  
E-mail: poststelle@bmelv.bund.de

Responsible experts:

Dr. Thomas Müller  
Dr. Conrad Freuling  
Friedrich-Loeffler-Institute  
Federal Research Institute for Animal  
Health, WHO Collaborating Centre for  
Rabies Surveillance and Research,  
Wusterhausen, Seestr. 55  
D-16868 Wusterhausen/Germany  
Tel: +49-33979-80 0  
Fax: +49-33979-80 200 and 222  
E-mail: who-rabies@fli.bund.de  
Web: [www.fli.bund.de](http://www.fli.bund.de)

**GRC Greece**

Konstantia Tasioudi  
Institute of Infectious and Parasitic  
disease  
25 Neapoleos street. Agia Paraskevi  
15310  
Greece  
Tel, Fax: +30 210 6011499  
viruslab.ath@gmail.com

**HUN Hungary**

Dr. Tibor Balint  
Dr. Zsolt Földi  
Ministry of Agriculture and Regional  
Development  
Animal Health and Food Control  
Department  
H-1860 Budapest 55. Pf. 1  
Tel. +36-1 3014329 and 332 7986  
Fax +36-1 301 4669  
E-mail foldiz@oai.hu

**ISL Iceland**

Dr. Halldor Runolfsson  
Chief Veterinary Officer  
Ministry of Agriculture, Veterinary  
Services  
Solvholsgata 7  
150 Reykjavik /Iceland  
Tel. +354-560 9750  
Fax +354-552 1160  
E-mail halldor.runolfsson@lan.stjr.is

**IRE Ireland**

Dr. J. Melville  
Superintending Veterinary Inspector  
Department of Agriculture, Food and  
Forestry  
Agriculture House  
Dublin 2/Ireland  
Tel: +353-1-607 2981  
Fax: +353-1-661 2440

Responsible expert:

Dr Patrick Lenihan  
Senior Superintending Research Officer  
Virology Division  
Central Veterinary Research Laboratory  
Abbotstown, Blanchardstown  
Dublin 15

**ITA Italy**

Dr. Franco Mutinelli  
Istituto Zooprofilattico  
Sperimentale delle Venezie  
Viale dell'Università, 10  
I-35020 Legnaro (PD) /Italy  
Tel: +39-049-80 84 259  
Fax: +39-049-80 84 258  
E-mail: fmutinelli@izsvenezie.it

**LVA Latvia**

Dr. Mareks Samohvalovs  
Dr. Emils Jegers  
Food and Veterinary Service  
Peldu Street 30,  
Riga, LV-1050, Latvia  
Tel: +371 67095230  
Fax: +371 67322727  
E-mail: pvd@pvd.gov.lv

**LTU Lithuania**

Dr. K. Lukauskas  
Dr. V. Kiudulas,  
Animal Health Department  
State Food and Veterinary Service  
Siesikų 19, LT-07170 Vilnius  
E-mail: vvt@vet.lt  
vkiudulas@vet.lt

**LUX Luxembourg**

Dr. Arthur Besch, CVO  
Inspection Vétérinaire  
Grand-Duché de Luxembourg  
Administration des Services vétérinaires  
93, rue d'Anvers  
Boîte postale 1403  
L-1014 Luxembourg  
Tel: +352-478 2539  
Fax: +352-407 545  
E-mail: Arthur.Besch@asv.etat.lu

**MKD Macedonia**

Sloboden Cokrevski, DVM Ministry of  
Agriculture, Forestry and Water  
Economy  
Veterinary Directorate  
Republic of Macedonia  
Leninova 2  
1000 Skopje/Macedonia  
Tel: + 389 2 3210468  
Fax: + 389 2 3210315  
E-mail: scokrevski@veterina.gov.mk  
Responsible expert:  
Prof. Dr. Misho Hristovski  
Veterinary institute Skopje  
Department of Biology and Pathology of  
Fish, Bees and Wild Animals  
1000 Skopje/Macedonia  
Tel: +389 2 3115125  
Fax: +389 2 3114619  
E-mail: hristovskim@hotmail.com

**MNE Montenegro**

Mevlida Hrapovic  
Veterinary administration of the Republic  
of Montenegro  
Bulevar Sv.Petra Cetinjskog br 9  
81000 Podgorica, Montenegro  
Tel: +38 2 81 201 945;  
Fax: +38 2 81 201 946  
e-mail: mevlida.hrapovic@vu.gov.me

**MDA Moldova**

Vsevolod Stamati,  
Animal Health Division  
Department of Veterinary Medicine  
Ministry of Agriculture and Food Industry  
Republic of Moldova  
E-mail: dmv@maia.gov.md

**NED Netherlands**

Dr. P.W.de Leeuw  
Dutch Ministry of Agriculture, Nature and  
Food  
Bezuidenhoutseweg 73 - P.O. Box 20401  
NL-2500 EK's-Gravenhage /Netherlands

Dr. L. Züchner  
Food en Consumer Product Safety  
Authority  
De Stoven 22  
NL-7206 AX Zutphen /Netherlands  
Tel: +31-575-58 8 100  
Fax: +31-575-588 8 200  
E-mail: lothar.zuchner@vwa.nl

**NOR Norway**

Dr. Keren Bar-Yaacov, CVO  
Norwegian Food Safety Authority, Head  
Office  
P.O. Box 383  
N-2381 Brumunddal, Norway  
Tel: +47 23 21 68 00  
Fax: +47 23 21 68 01  
E-mail: postmottak@mattilsynet.no

**POL Poland**

Krzysztof Jazdzewski, DVM  
Acting Chief Veterinary Officer  
General Veterinary Inspectorate  
Veterinary Inspection  
30, Wspolna Str  
00-930 Warsaw / Poland  
Tel.: +4822623208889  
+4822626288511  
Fax: +48226231408  
E-mail: wet@wetgiw.gov.pl

Responsible experts:  
Prof. Jan. F. Zmudzinski  
National Veterinary Research Institute  
Department of Virology  
National Reference Laboratory for Rabies  
Al. Partyzantow 57  
24 -100 Pulawy / Poland  
Tel.: +48818863051  
Fax: +48818862595  
E-mail: jfzmudzi@piwet.pulawy.pl

Magdalena Zietara, DVM  
Animal Health and Welfare Office  
General Veterinary Inspectorate  
Veterinary Inspection  
30, Wspolna Str,  
00-930 Warsaw / Poland  
Tel.: +48226232264  
Fax: +48226231408  
E-mail:  
magdalena.zietara@wetgiw.gov.pl

**PRT Portugal**

Dr.C.A.M.de Andrade  
Fontes  
Direccao-Geral da Pecuaria

**ROU Romania**

Prof. Gabriel Predoi, CVO  
 General Director of the Sanitary  
 Veterinary General Direction, National  
 Sanitary Veterinary and Food Safety  
 Authority  
 Bd. Carol I, nr. 24, sector 3  
 Bucuresti, cod 70.033 /Romania  
 Tel: +40-21-3157875  
 Fax: +40-21-3124967  
 E-mail: predoi@ansv.ro

**RUS Russian Federation  
(European part)**

Prof. V.A.Vedernikov  
 Dr. I.V.Baldina

The Kovalenko All-Russian  
 Inst.of Exper. Veterinary Medicine  
 109455, Moscow, Ryazansky prosp., 24  
 Tel: +495 377-9483  
 Fax: +495 970-0369  
 E-Mail: epizootviev@mail.ruDr.  
 N.A.Yaremenko  
 Dr. S.A.Kolomytzev  
 Department of veterinary and livestock  
 Ministry of Agriculture  
 107139, Moscow, Orlikov per., 1/11  
 Tel: +495 975-5423  
 Fax: +495 975-5423  
 E-mail: n.yaremenko@vet.mcx.ru

Responsible expert:  
 Dr Artem Metlin  
 Federal Centre for Animal Health,  
 600901, Vladimir,Russia.  
 Fax +74 922260753  
 E-mail artem.metlin@inbox.ru

Prof. A.A.Movsesyants  
 Scientific Centre of Expertise of Medicals  
 Devices  
 119002, Moscow,  
 Per. Sivtzev Vrazhek, 41  
 Tel. +7 499 2413784  
 E-mail: Movsesyans\_AA@gisk.ru

**SRB Serbia**

Prof. Dr Dušan Lalošević (Director)  
 Dr. Nenad Vranješ (Rabies Epidemiology  
 and prevention)  
 Dr. Srđan Stankov (Rabies laboratory)  
 Pasteur Institute Novi Sad  
 Hajduk Veljkova 1 / P.O. Box 208  
 21000 Novi Sad / Serbia  
 Tel.: +381 21 6611 003  
 +381 21 420 528  
 Fax: +381 21 6611 003  
 Email: paster-ns@neobee.net

**SVK Slovak Republic**

Prof. Josef Bires, CVO  
 Roman Matejčík, DVM  
 State Veterinary Administration of the  
 Slovak Republic  
 Botanická No 17  
 842 13 Bratislava /Slovak Republic  
 Tel. +421-2-60 257 227  
 Fax +421-2-65 411 159  
 E-mail welfare@svsrr.sk

Responsible expert:  
 Miroslav Mojžiš, DVM  
 Štátny veterinárny ústav Zvolen  
 Pod Dráhami No. 918  
 960 86 Zvolen /Slovak Republic

**SVN Slovenia**

Aleš Brečelj, MSc, DVM  
 Ministry of Agriculture, Forestry and  
 Food  
 Veterinary Administration of the Republic  
 of Slovenia  
 Parmova 53, 1000 Ljubljana / SLOVENIA  
 Tel: +386-1-300 13 00  
 Fax: +386-1-300 13 56  
 E-mail: ales.brecelj@gov.si  
 Web: www.sigov.si/vurs

Responsible expert:  
 Peter Hostnik, PhD, DVM  
 National Veterinary Institute, Unit for the  
 diagnostic of contagious and other  
 diseases,  
 Laboratory of Virology  
 Gerbičeva 60  
 1000 Ljubljana / SLOVENIA  
 Tel: +386-1-477 91 00  
 Fax: +386-1-477 93 52  
 E-mail: peter.hostnik@vf.uni-lj.si

**ESP Spain**

Ilmo. Sr. D. Pedro Angel García González  
 Subdirector General de Sanidad Exterior  
 Tel: +34-91-596 20 38  
 Fax: +34-91-596 20 47  
 E-mail: pgarciag@msc.es  
 Sr. D. Carlos Abellán García  
 Jefe de Servicio de Veterinaria Oficial  
 Tel: +34-91-596 19 34  
 Fax: +34-91-596 20 47  
 E-mail: cabellan@msc.es

Ministerio de Sanidad y Consumo  
 Dirección General de Salud Pública  
 Subdirección General de Sanidad  
 Exterior  
 C/Paseo del Prado, 18-20  
 E-28071 Madrid

Responsible expert - Diagnóstico:  
Sr. D. Juan E. Echevarría Mayo  
Servicio de Microbiología Diagnóstica  
Centro Nacional de Microbiología  
Instituto de Salud Carlos III  
Ministerio de Sanidad y Consumo  
Ctra. Majadahonda-Pozuelo s/n  
28220 Majadahonda, Madrid  
Tel: +34-91-509 79 01  
Fax: +34-91-509 79 66  
E-mail: [jeecheva@isciii.es](mailto:jeecheva@isciii.es)

Epidemiología:  
Sra. Da Luisa Pilar Sánchez Serrano  
Centro Nacional de Epidemiología  
Instituto de Salud Carlos III  
Ministerio de Sanidad y Consumo  
C/ Sinesio Delgado, 6  
E-28029 Madrid  
Tel: +34-91-387 78 02  
Fax: +34-91-387 78 16  
E-mail: [Isanchez@isciii.es](mailto:Isanchez@isciii.es)

Dr. Ignacio Sanchez Esteban  
Subdirector General de Sanidad  
Veterinaria  
MAPA  
Ministerio de Agricultura, Pesca y  
Alimentación  
Madrid /Spain  
Tel: +34-91-347 82 95  
Fax: +34-91-347 82 99  
E-mail: [isanchez@mapya.es](mailto:isanchez@mapya.es)  
Web: [www.mapya.es](http://www.mapya.es)

Responsible expert:  
D. Fulgencio Garrido Abellan  
Tel: +34-958-44 03 75  
Fax: +34-958-44 12 00  
E-mail: [fgarrido@moebius.es](mailto:fgarrido@moebius.es)  
Dña. Teresa Rodríguez-Trenchs  
Tel: +34-91-347 83 4  
Fax: +34-91-347 82 99  
E-mail: [trodrigu@mapya.es](mailto:trodrigu@mapya.es)

#### **SWE Sweden**

Dr. Leif Denneberg  
National Board of  
Agriculture Department for Animal  
Production and Health  
SE-551 82 Jönköping /Sweden  
Tel: +46-36-15 50 00  
Fax: +46-36-30 81 82  
E-mail: [leif.denneberg@sjv.se](mailto:leif.denneberg@sjv.se)

Responsible expert:  
Professor Anders Engvall  
National Veterinary Institute  
SE-751 89 Uppsala  
Tel: +46-18-67 40 00  
Fax: +46-18-67 44 45  
E-mail: [anders.engvall@sva.se](mailto:anders.engvall@sva.se)

#### **CHE Switzerland**

PD Reto Zanoni  
Dr. Urs Breitenmoser  
University of Bern - Swiss Rabies Centre  
Institute of Veterinary Virology  
Länggass Str. 122  
CH-3012 Bern /Switzerland  
Tel: +41-31-631 23 78  
Fax: +41-31-631 25 34  
E-Mail: [zanoni@ivv.unibe.ch](mailto:zanoni@ivv.unibe.ch)  
[breitenmoser@ivv.unibe.ch](mailto:breitenmoser@ivv.unibe.ch)  
Web: [www.cx.unibe.ch/ivv](http://www.cx.unibe.ch/ivv)

#### **TUR Turkey**

Asso.Prof.Dr. Muzaffer AYDEMİR  
Ministry of Agriculture and Rural Affairs  
General Directorate of Protection and  
Control  
Esat cad. No. 3  
06100 Bakanlıklar, Ankara /Turkey  
Tel: +90-312-41 82 436  
Fax: +90-312-41 78 209

Responsible expert:  
Dr. Orhan Aylan, Chief of Rabies  
Laboratory  
Etlik Central Veterinary Control and  
Research Institute  
06020 Etlik, Ankara /Turkey  
Tel: +90-312-32 60 090 / 154  
Fax: +90-312-32 11 755

#### **UKR Ukraine**

Dr. P. Verbytskyi  
Ministry of Agrarian Policy  
State Department of Veterinary Medicine  
Khreshchatik 24  
01001 Kiev /Ukraine  
Tel: +380-44-229 12 70  
Fax: +380-44-229 85 45  
E-mail: [uzpr@minapk.kiev.ua](mailto:uzpr@minapk.kiev.ua)

Dr. Liudmyla Grishok  
Institute of Veterinary Medicine  
Head of Laboratory for Rabies  
Donetskaja Street 30  
Kiev-151 /Ukraine  
Tel: +380-44-243 72 38  
Fax: +380-44-242-69-81  
E-mail: [ivm-kiev@akcecc.kiev.ua](mailto:ivm-kiev@akcecc.kiev.ua)

Dr. Zoya Trotsenko  
Head of Virology Department  
State Research Institute of Laboratory  
Diagnostics and Veterinary Sanitary  
Expertise  
Donetskaya Street 30  
Kiev-151, Ukraine  
Tel. +380-44-243 37 55  
Fax +380-44-242-37 55  
E-Mail: biotech@astral.kiev.ua

**UNK United Kingdom**

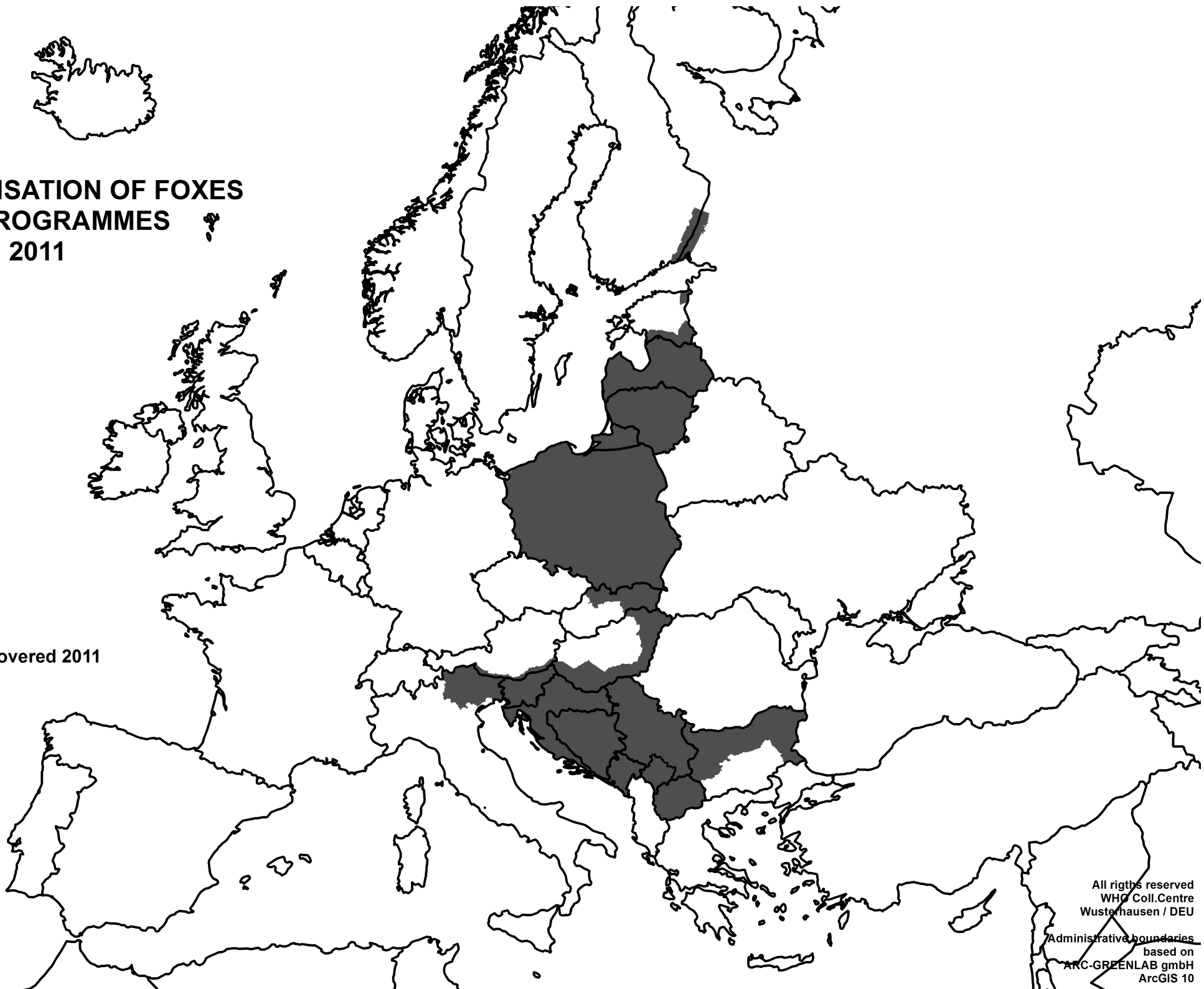
Mr Nigel Gibbens BVetMed MSc MRCVS,  
CVO  
Mr David Mouat BVM&S MSc MRCVS  
Mr Balazs Toth DrMedVet MRCVS  
Department for Environment, Food and  
Rural Affairs  
Area 5D Nobel House  
17 Smith Square, London SW1P 3JR  
Tel. +44-207-238 6047  
Fax +44-207-238 5051  
e-mail david.c.mouat@defra.gsi.gov.uk  
balazs.toth@defra.gsi.gov.uk

Responsible expert:  
Dr Anthony R Fooks MBA PhD CBiol FSB  
Head of Wildlife Zoonoses and Vector-  
Borne Diseases Research Group  
Statutory and Exotic Viruses Sub-  
Programme Manager  
Animal Health and Veterinary  
Laboratories Agency (AHVLA)  
Woodham Lane, New Haw  
Addlestone, Surrey. KT15 3NB UK  
Tel: +44 1932 357840  
+44 7733 308313  
Fax: +44 1932 357239  
GTN: 3956 2840  
E-mail: Tony.Fooks@ahvla.gsi.gov.uk  
Web: www.defra.gov.uk/ahvla

**Please inform the editor about changes of contact details!**

# ORAL IMMUNISATION OF FOXES (OIF) PROGRAMMES 2011

 total area covered 2011





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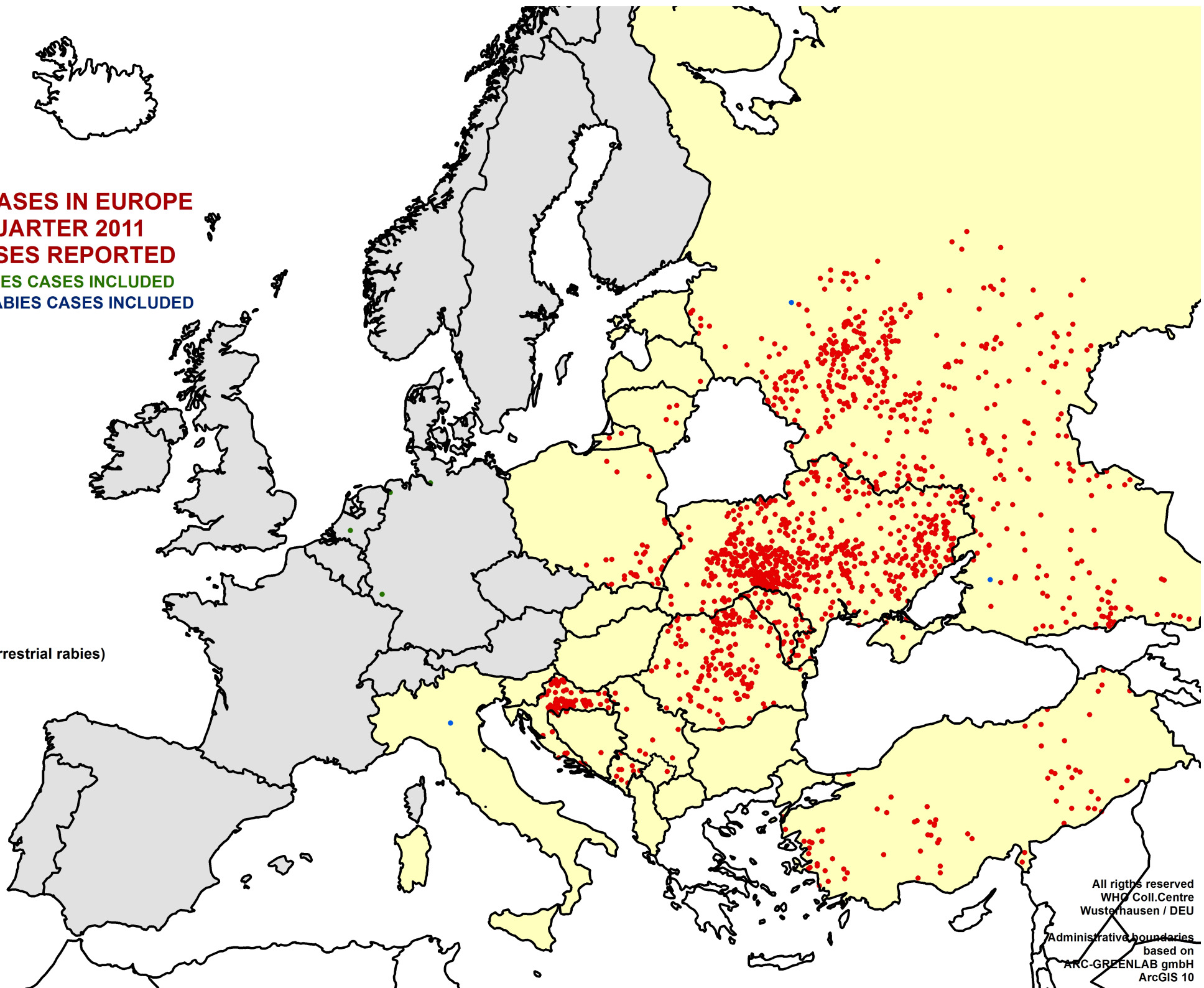
Administrative boundaries  
based on  
ARC-GREENLAB gmbH  
ArcGIS 10



**RABIES CASES IN EUROPE**  
**4th QUARTER 2011**  
**1510 CASES REPORTED**

**4 BAT RABIES CASES INCLUDED**  
**3 HUMAN RABIES CASES INCLUDED**

 rabies free (terrestrial rabies)  
 no data



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Administrative boundaries  
based on  
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ArcGIS 10