

RABIES BULLETIN EUROPE

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1. Editorial

The success story of rabies control in Europe using oral rabies vaccination would not have been told if the European Union (EU) hadn't financially supported this project. In this issue we are grateful for the European commission to provide a miscellaneous article on the EU strategy for external cooperation with neighbouring countries. The second article covers the bat rabies surveillance in Finland. Only after the tragic death of a Swiss biologist in Finland in 1985 and subsequent characterization of the causative agent it became evident that bat rabies in Europe is caused by at least two different lyssavirus species: EBLV-1 and 2. Recently, EBLV-2 was also isolated from a Daubenton's bat in the south of Finland.

As usual, you will find the rabies surveillance data kindly submitted by our contributors in Tables and a map.

Conrad Freuling
Thomas Müller

2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES

1st QUARTER 2011

01.01.11-31.03.11

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	0	0	0	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS	BLR	346	259	87	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	3	1	2	0	0
BULGARIA	BGR	0	0	0	0	0
CROATIA	HRV	137	132	5	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	1	0	0	0
FINLAND	FIN	0	0	0	0	0
FRANCE	FRA	0	0	0	0	0
GERMANY	DEU	0	0	0	0	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	1	0	0	0
LATVIA	LVA	0	0	0	0	0
LITHUANIA	LTU	5	5	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	17	6	11	0	0
MONTENEGRO	MNE *					
NETHERLANDS	NED	0	0	0	0	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	54	44	10	0	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	83	60	23	0	0
RUSSIAN FEDERATION	RUS	674	374	298	0	2
SERBIA	SRB	20	18	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	55	9	46	0	0
UKRAINE	UKR	304	128	210	0	0
UNITED KINGDOM	UNK	0	0	0	0	0
TOTAL		1734	1038	694	0	2

Wildlife: excluding bats

* no data

3. Miscellaneous Articles

3. 1 The European Union strategy for external cooperation with neighbouring countries on rabies control

Panayiotis Demetriou¹, James Moynagh¹

¹European Commission, Health and Consumers Directorate General

Since the end of the 1980s, the European Union (EU) has been supporting financially its Member States in their efforts to eradicate terrestrial rabies through oral vaccination.

Oral rabies vaccination (ORV) proved to be very successful in combating rabies in wildlife. By the time of the 2004 enlargement almost all of the 'old' EU Member States (EU-15) were free from terrestrial rabies.

Following the enlargements of 2004 and 2007, a number of eastern European 'new' EU Member States gained access to EU veterinary funding were able to initiate ORV programmes or intensify and expand their ORV programmes already in place.

The implementation of EU co-financed ORV in these countries, also benefiting from the experience gained in the past, resulted in most cases in the spectacular improvement of the rabies situation with a sharp decrease in the reported rabies cases and large, previously infected, areas becoming free from rabies cases within a relatively short period of time. The gradual achievement of complete eradication of terrestrial rabies from the EU in the short or medium term appears now to be feasible.

Currently, most of the Member States that are approaching the objective of eradicating the disease share land borders with non-EU countries where rabies is present in

wildlife. It is already evident that in a number of Member States the disease is persisting in areas bordering non-EU countries. In these areas, eradication would not be possible to achieve or maintain as reintroductions through infected wild animals crossing the borders are inevitable.

The European Commission, together with the affected Member States identified the need for action in neighbouring non-EU countries, in order to safeguard the favourable results achieved and, where possible, to assist these countries in eradicating the disease from their own territories.

After exploring the funding possibilities in the different cases, the Commission provided solutions for supporting financially ORV in certain areas or countries neighbouring the EU.

Kaliningrad

Kaliningrad, a Russian region surrounded by Lithuanian and Polish territory, was naturally the first external EU activity against wildlife rabies that was considered.

Cooperation with this specific region of Russia initially took place through the Lithuanian programme for 2007, under which ORV activities implemented in Kaliningrad were made eligible for funding. Since 2008, the EU is financing ORV in Kaliningrad directly through the emergency component of the veterinary expenditure. From 2007

to 2009 only autumn ORV campaigns took place whereas from 2010 onwards two ORV campaigns (spring and autumn) are implemented annually. A significant decrease in cases in Kaliningrad is not yet evident but this could be related to different sampling regimes prior to the programme and that required by the programme. Extensive sampling for rabies monitoring and surveillance only started in the end of 2009 and consequently, current results are not comparable with those of preceding years. Nevertheless, the neighbouring Member States are reporting already a significant improvement in the disease situation in their territories bordering Kaliningrad after 2008, coinciding with the implementation of ORV in the region. For example, no terrestrial rabies cases have been reported in the Warminsko-Mazurskie region of Poland since 2008 while no natural or artificial geographical barriers exist between the two areas.

The amount allocated to the Kaliningrad programme for the period between 2008-2011 was 1,8 million Euros and the same amount is already approved for a further 3-year period.

Western Balkans

Terrestrial rabies is considered to be present in the whole or parts of all seven¹ non-EU countries or territories of the Western Balkan area.

In the framework of the Instrument for Pre-accession Assistance (IPA) destined for candidate or potential candidate countries it is possible to

¹ Albania, Bosnia and Herzegovina, Croatia, Former Yugoslav Republic of Macedonia, Serbia, Montenegro and Kosovo (under UNSCR 1244)

support eradication activities for certain animal diseases in the Western Balkan region. Since 2008 funding of activities against rabies and classical swine fever, both of which are major transboundary diseases predominantly due to the involvement of wildlife, has been approved.

The project consists of two components: The national component, consisting of seven separate national programmes, and the regional component.

Under the national programmes funding is provided for the implementation of the ORV (purchase and distribution of oral vaccine) as well as monitoring and surveillance activities.

By the end of 2011 most Western Balkan countries will have started implementing ORV. The regional project, to be launched within the second half of 2011 intends to coordinate the implementation of the national projects and provide technical assistance.

For a five year period an approximate 50 million Euros is estimated to be spent on rabies eradication in the Western Balkans.

North-eastern neighbouring countries

To address the rabies threat originating from in bordering third country areas along the north eastern limits of the EU, the Commission encouraged the interested Member States to come into agreements with their respective neighbours for the inclusion of oral vaccination activities in their territory along the common borders to their EU co-financed rabies programmes. Funding for the creation of vaccination belts in the territories of these countries could then take place through the co-financed

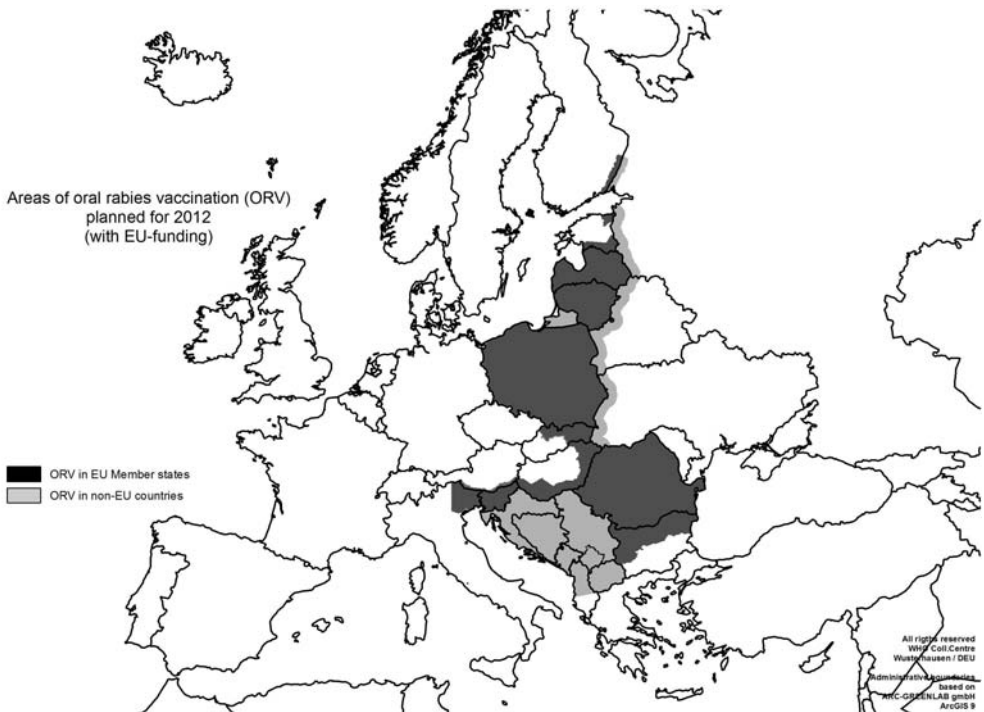
programmes of the neighbouring MS.

The third countries that are at the moment being considered under this plan include different bordering regions of Russia as well as Ukraine and Belarus. The plan involves the establishment of a buffer zone of 50-70 km along the border.

In 2011 bordering areas of Poland with Ukraine, of Finland with the

Leningrad region of Russia and of Lithuania with Belarus are expected to receive ORV under this plan.

More areas of the borders with Ukraine, Belarus and Russia are expected to be covered with ORV within the year 2012 as soon as bilateral arrangements with the corresponding EU Member States are finalised. When implemented in full scale these activities are estimated to receive approximately 5 million Euros annually.



3. 2 Bat rabies surveillance in Finland

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Finland had been considered to be bat rabies-free until 2009. Previously, bat rabies had been suspected only in 1985 when a researcher who had been working with bats in several countries died in Helsinki of European bat lyssavirus type 2 (EBLV-2) infection [1]. An epidemiological study was carried out in 1986 involving systematic and targeted active bat sampling in order to determine whether bat rabies occurs in Finland. A total of 183 bats of the most common bat species in Finland were analyzed and found to be rabies-free [2]. Passive rabies surveillance since then had not provided any indications of rabies in bats. However, the numbers of tested bats was very low, totaling less than ten bats each year.

EBLV-2 in Daubenton's bat

On 14 September 2009, lyssavirus was detected using a rabies fluorescent antibody test (FAT) in the brain of a Daubenton's bat (*Myotis daubentonii*) submitted from the island of Kakskerta near the town of Turku (N 60° 22' WGS84) in Finland [3]. Rabies was suspected because the bat had behaved in a strange manner. It was caught in a mist net among other conspecifics and may have been agitated by an ultrasonic lure, which it had flown straight at. When touched, the bat began to scream and convulse. During removal, the bats behaviour was very aggressive and it was able

to bite two researchers. Both of the exposed researchers received proper post-exposure treatment, including vaccinations.

The virus was typed as EBLV-2. Phylogenetic analyses revealed that the Finnish EBLV-2 isolates from both the human infected in 1985 and from the bat in 2009 were genetically closely related, indicating that bat rabies may have been circulating in Finland for years. Greater divergence of this sequence was observed with other EBLV-2 viruses isolated in Switzerland, Germany, the UK and the Netherlands. [3]. A mouse inoculation test (MIT) was conducted, with mice developing encephalitis between 12 and 15 days p.i.

Bat rabies surveillance 2010-2011

In 2010 and 2011, in co-operation with the Finnish Museum of Natural History (University of Helsinki) and the University of Turku, the Finnish Food Safety Authority Evira has launched a project to carry out surveillance on the presence of rabies in bats in Finland. The project is partly funded by the Ministry of Agriculture and Forestry. During the project, blood and saliva samples have been collected from bats in Turku, the island of Kakskerta in particular, in Uusimaa and in Southeast Finland. Sampling has been focused on the areas where

the sick bat was found in 2009, and additionally on the areas where the deceased bat researcher had worked in 1985.

All the bats sampled in 2010 appeared to be healthy, and none showed obvious clinical signs of rabies. Saliva and blood samples were collected from 459 bats in total and in passive surveillance from 8 bats in total in 2010. Testing has been performed according to the OIE Manual of Standards for Diagnostic Tests and Vaccines. Brain samples have been analyzed using a standard fluorescent antibody test (FAT) and saliva samples using a real-time reverse transcriptase-polymerase chain reaction (rRT-PCR) test specific for EBLV-1 and EBLV-2. In 2010, all saliva and brain samples were found negative.

The collected serum samples will be analyzed for EBLV-2 antibodies later with the modified FAVN (fluorescent antibody neutralization) test. Sampling of the bats will continue in 2011.

Bat species in Finland

In Finland, 13 bat species have been observed to date (Table 1). Of these, the most common species is the northern bat (*Eptesicus nilssonii*), with a range extending from Hanko to Ruija, Norway. As a general rule, most of the species are aggregated in southern Finland. Only a few of the thirty European bat species have been able to adjust to the cold winter and the intense light in the summer [4]

Species	Distribution/Status
<i>Nyctalus noctula</i>	Restricted, Southern Finland, vagrant
<i>Eptesicus nilssonii</i>	Widespread, extends to S Lapland, some records even further north
<i>Eptesicus serotinus</i>	One specimen found in S Finland in 2008
<i>Vespertilio murinus</i>	Restricted, S Finland, vagrant
<i>Plecotus auritus</i>	Widespread, S & Central Finland, to 63° N lat.
<i>Pipistrellus nathusii</i>	Restricted, S Finland. (First record in 1979; first maternity colony found in 2006)
<i>Pipistrellus pipistrellus</i>	Restricted, S Finland (first record in 2001)
<i>Pipistrellus pygmaeus</i>	One observation in S Finland in 2007
<i>Myotis nattereri</i>	Rare, S Finland/ Endangered
<i>Myotis brandtii</i>	Widespread, S & Central Finland, to 64–65° N lat.
<i>Myotis mystacinus</i>	Widespread, S & Central Finland, to 64–65° N lat.
<i>Myotis daubentonii</i>	Widespread, S & Central Finland, almost to 67° N lat.
<i>Myotis dasycneme</i>	Restricted, E Finland (1 hibernating specimen in 2002, two foraging individuals in 2006)

Table 1. Status and distribution of the bat species recorded in Finland as presented in the national report of Finland to the EUROBATS agreement [5].

Conclusions

Passive surveillance of bat rabies might be a sufficient and relevant means for obtaining information on the occurrence of bat rabies in Finland. An active surveillance project was initiated to complement passive surveillance after the first rabies virus detection in a bat in 2009. Preliminary results from our active surveillance, earlier passive surveillance and ongoing passive surveillance indicate that the incidence of rabies in the Finnish bat population is extremely low.

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4 DISTRIBUTION OF RABIES IN EUROPE

4.1 Country summaries of rabies cases, 1st quarter 2011

01.01.11-31.03.11

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	43	29	15					87	227	25				5	1						1	259			346	
Belgium	BEL								0														0			0	
Bosnia - Hercegovina	BIH					2			2	1													1			3	
Bulgaria	BGR								0														0			0	
Croatia	HRV		1	2		2			5	131					1								132			137	
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								0														0			0	
Germany	DEU								0														0			0	
Greece	GRC								0														0			0	
Hungary	HUN								0														0			0	
Iceland	ISL								0														0			0	
Ireland	IRE								0														0			0	
Italy	ITA								0	1													1			1	
Latvia	LVA								0														0			0	
Lithuania	LTU								0	2	3												5			5	
Luxembourg	LUX								0														0			0	
Macedonia	MKD								0														0			0	
Malta	MLT								0														0			0	
Moldova	MDA	3	1	4		2	1		11	6													6			17	
Montenegro	MNE								0														0			0	
Norway	NOR								0														0			0	
Poland	POL	4	5					1	10	36				1	4					2		1	44			54	
Portugal	PRT								0														0			0	
Romania	ROU	16	5		1	1			23	57					1	1	1						60			83	
Russian Federation	RUS	132	89	49	3	16		9	298	321	37		3	1	4	2	1	1	1			3	374	2		674	
Serbia	SRB	1			1				2	18													18			20	
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			0	
Turkey	TUR	23	2	12		9			46	9													9			55	
Ukraine	UKR	83	103	18	2	4			210	116	2	1	1		7							1	128			338	
United Kingdom	UNK								0														0			0	
TOTAL		305	235	100	7	36	1	10	694	925	68	1	4	2	21	4	2	2	3	0	0	6	1038	0	2	1734	
PER CENT		17,6%	13,6%	5,8%	0,4%	2,1%	0,1%	0,6%	40,0%	53,3%	3,9%	0,1%	0,2%	0,1%	1,2%	0,2%	0,1%	0,1%	0,2%	0,0%	0,0%	0,3%	59,9%	0,0%	0,1%	100%	

* NO CASES

** NO DATA

4.2 Rabies cases per country and administrative units, 1st quarter 2011

01.01.11-31.03.11

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
BOSNIA - HERCEGOVINA																										
Unsko-sanski					2				2	1													1			3
TOTAL	0	0	0	0	2	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3
PER CENT	0.0%	0.0%	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%	66.7%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	100%	
BELARUS																										
Brest	3		1						4	16	1				1	1								19		23
Gomel	8	11	7						26	46	4											1	51		77	
Grodno	11	8	2						21	41	6				2								49		70	
Minsk	12	6	3						21	37	4				2								43		64	
Mogelev	4		1						5	60	5												65		70	
Vitebsk	5	4	1						10	27	5												32		42	
TOTAL	43	29	15	0	0	0	0	0	87	227	25	0	0	0	5	1	0	0	0	0	0	1	259	0	0	346
PER CENT	12.4%	8.4%	4.3%	0.0%	0.0%	0.0%	0.0%	0.0%	25.1%	65.6%	7.2%	0.0%	0.0%	0.0%	1.4%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	74.9%	0.0%	0.0%	100%
ESTONIA																										
Polva									0		1												1		1	
TOTAL	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
PER CENT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	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%	100.0%	0.0%	0.0%	100%
CROATIA																										
Bjelovarsko - Bilogorska									0	3													3		3	
Istarska									0	25													25		25	
Karlovacka			1						1	5													5		6	
Koprivnicko - Krizevaska									0	3													3		3	
Krapinsko - Zagorska									0	6													6		6	
Osjesko - Baranjska									0	3													3		3	
Pozesko - Slovanska		1							1	2													2		3	
Primorsko - Goranska									0	11													11		11	
Sisacko - Moslovska			1		1				2	43					1								44		46	
Splitsko - Dalmatinska					1				1	10													10		11	
Varazdinska									0	7													7		7	
Viroticko - Podravska									0	1													1		1	
Vukovarsko - Srijemska									0	5													5		5	
Zadarska									0	1													1		1	
Zagrebacka									0	6													6		6	
TOTAL	0	1	2	0	2	0	0	0	5	131	0	0	0	0	1	0	0	0	0	0	0	0	132	0	0	137
PER CENT	0.0%	0.7%	1.5%	0.0%	1.5%	0.0%	0.0%	0.0%	3.6%	95.6%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.4%	0.0%	0.0%	100%

4.2 Rabies cases per country and administrative units, 1st quarter 2011

01.01.11-31.03.11

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
ROMANIA																										
Alba		1							1	1													1			2
Arges	1								1							1							1			2
Bistrita-Nasaud									0	5													5			5
Brasov									0	1													1			1
Buzau	1								1														0			1
Calarasi									0	4													4			4
Cluj	1			1					2	1													1			3
Covasna									0	1													1			1
Dambovita									0	13													13			13
Galati									0	1													1			1
Gorj		1							1	2													2			3
Hunedoara									0	2													2			2
Ialomita									0	1													1			1
Iasi	9								9	4													4			13
Ilfov		1							1														0			1
Maramures	2								2	4													4			6
Mures		1							1	2													2			3
Olt									1	1								1					2			3
Prahova	2				1				2	1													1			3
Salaj									0	1													1			1
Satu Mare									0	3													3			3
Sibiu									0	4													4			4
Suceava									0	2													2			2
Tulcea		1							1	3						1							4			5
TOTAL	16	5	0	1	1	0	0	0	23	57	0	0	0	0	1	1	1	0	0	0	0	0	60	0	0	83
PER CENT	19,3%	6,0%	0,0%	1,2%	1,2%	0,0%	0,0%	0,0%	27,7%	68,7%	0,0%	0,0%	0,0%	0,0%	1,2%	1,2%	1,2%	0,0%	0,0%	0,0%	0,0%	0,0%	72,3%	0,0%	0,0%	100%
LITHUANIA																										
Alytaus									0	1													1			1
Utenos									0	1	3												4			4
TOTAL	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	40,0%	60,0%	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%	0,0%	100%
ITALY																										
Belluno									0	1													1			1
TOTAL	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	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%	100,0%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 1st quarter 2011

01.01.11-31.03.11

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
RUSSIAN FEDERATION																										
Astrahanskaja obl.	6	14	7		5		2		34	1	1		1										3		1	38
Belgorodskaja obl.	12	9	1		3				25	6													6			31
Brjanskaja obl.	7	3	2						12	25	5				1								31			43
Cecenskaja resp.			1						1														0			1
Cuvasskaja resp.	1				1				2														0			2
Dagestan resp.	1		3	1	2				7														10			7
Ivanovskaja obl.	1								1	10													10			11
Jaroslavskaja obl.	2								2	17	1												18			20
Kabardino-Balkanskaja resp.	1	1	1						3														0			3
Kaliningradskaja obl.	1	2							3	5											1		6			9
Kalmykija resp.	2	2	1						5														0			5
Kaluzskaja obl.	13	5	4						22	19			1										20			42
Karacaevo-Cerkesskaja resp.	1	1	2						4	1													1			5
Kostromskaja obl.									0	2													2			2
Krasnodarskij kr.	1	2							3														2			5
Kurskaja obl.	2	1	1						4	6			1									2				11
Lipeckaja obl.	5	2	4				1		12	21													21			33
Marij El resp.									0	2	1												3			3
Mordovija resp.	4	1							5	10													10			15
Moskovskaja obl.	7	6	1						14	32	3												35			49
Nizgorodskaja obl.	2	2					1		5	11				1									12			17
Novgorodskaja obl.	1								1	2													2			3
Orlovskaja obl.	1								1	2					1								3			4
Penzenskaja obl.	13	9	2	1	2				27	22		1		1				1					25			52
Pskovskaja obl.									0	3	11												14			14
Rjazanskaja obl.	1								1	2													2			3
Rostovskaja obl.	1	1	1						3	7													7			10
Saratovskaja obl.	5	5	4	1	1				16	12	1	1											14			30
Severnaja Osetija-Alanija resp.	1	1	2						4														0			4
Smolenskaja obl.	3	1	1						5	54	10												64			69
Stavropol'skij kr.	2	3	3		1				9														0			9
Tambovskaja obl.	2	1							3	10													10			13
Tul'skaja obl.	6	2							8	17													17			25
Tverskaja obl.	5	2							7	8	4												12		1	20
Ul'janovskaja obl.	7	3	1						11	3							1						4			15
Vladimirska obl.	2								2	6													6			8
Volgogradskaja obl.	7	2	6						15							1							1			16
Voronezskaja obl.	6	8	1		1		5		21	5				1									6			27
TOTAL	132	89	49	3	16	0	9	0	298	321	37	0	3	1	4	2	1	1	1	0	0	3	374	0	2	674
PER CENT	19,6%	13,2%	7,3%	0,4%	2,4%	0,0%	1,3%	0,0%	44,2%	47,6%	5,5%	0,0%	0,4%	0,1%	0,6%	0,3%	0,1%	0,1%	0,1%	0,0%	0,0%	0,4%	55,5%	0,0%	0,3%	100%

4.2 Rabies cases per country and administrative units, 1st quarter 2011

01.01.11-31.03.11

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
TURKEY																											
Düzce			1						1															0			1
Ankara		1			1				2															0			2
Aydın			1						1	2														2			3
Balıkesir			1		3				4	1														1			5
Bilecik									0	1														1			1
Bitlis	1								1															0			1
Çanakkale			1						1	1														1			2
Diyarbakır			1						1	1														1			2
Elazığ	1								1															0			1
Erzincan	2		1						3	1														1			4
Erzurum	3								3															0			3
Eskisehir		1							1															0			1
Hakkari	1								1															0			1
Hatay	1								1															0			1
Isparta	1								1															0			1
Istanbul	4								4															0			4
Izmir			3		2				5	1														1			6
Kars	3		1						4															0			4
Manisa									0	1														1			1
Mardin	1				1				2															0			2
Mus	1								1															0			1
Sanliurfa	4		2		1				7															0			7
Usak					1				1															0			1
TOTAL	23	2	12	0	9	0	0	0	46	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	55
PER CENT	41.8%	3.6%	21.8%	0.0%	16.4%	0.0%	0.0%	0.0%	83.6%	16.4%	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%	16.4%	0.0%	0.0%	100%
MOLDOVA																											
Moldova	1	1	4			1			7	6														6			13
TOTAL	1	1	4	0	0	1	0	0	7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	13
PER CENT	7.7%	7.7%	30.8%	0.0%	0.0%	7.7%	0.0%	0.0%	53.8%	46.2%	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%	46.2%	0.0%	0.0%	100.0%
SERBIA																											
Central Serbia	1			1					2	18														18			20
TOTAL	1	0	0	1	0	0	0	0	2	18	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	20
PER CENT	5.0%	0.0%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	10.0%	90.0%	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%	90.0%	0.0%	0.0%	100%

4.2 Rabies cases per country and administrative units, 1st quarter 2011

01.01.11-31.03.11

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
UKRAINE																										
Avtonomnaya Respublika Krym		2							2	1													1			3
Bolynskaja o.	1	1							2	6													6			8
Cherkasskaja o.	6	4							10	2					1								3			13
Chernigovskaja o.	5	15	4	1					25	7	1				1								9			34
Chernovitskaja o.		1							1	2					1								3			4
Dnepropetrovskaja o.	11	5	1		1				18	2													2			20
Donetskaja o.	2	4							6	1													1			7
Ivano-Frankovskaja o.	1								1														0			1
Khar'kovskaja o.	6	19	1						26	2	1				1								4			30
Khersonskaja o.	1	10							11	5		1											6			17
Khmel'nitskaja o.	16	8	1	1					26	11					1								12			38
Kirovogradskaja o.	4	4							8	11												1	12			20
Kiyevskaja o.	3								3	3													3			6
Luganskaja o.	1		1						2														0			2
L'vovskaja o.	4	1							5	4													4			9
Nikolayevskaja o.	2	2							4	1													1			5
Odesskaja o.	2	1							3	3													3			6
Poltavskaja o.		6	4		2				12	1													1			13
Rovensskaja o.	1	4							5	8													8			13
Sumskaja o.	5	6	2		1				14	11		1		2									14			28
Ternopol'skaja o.	1		1						2	2													2			4
Vinnitskaja o.	3	2							5	24													24			29
Zakarpatskaja o.	2		2						4	1													1			5
Zaporozhskaja o.	5	5	1						11	2													2			13
Zhitomirskaja o.	1	3							4	6													6			10
TOTAL	83	103	18	2	4	0	0	0	210	116	2	1	0	7	0	0	0	0	0	0	0	1	128	0	0	338
PER CENT	24.6%	30.5%	5.3%	0.6%	1.2%	0.0%	0.0%	0.0%	62.1%	34.3%	0.6%	0.3%	0.3%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	37.9%	0.0%	0.0%	100%
POLAND																										
Lubelskie									0	2													2			2
Malopolskie	2	5					1		8	25				4								1	30			38
Podkarpackie	2								2	9			1					2					12			14
TOTAL	4	5	0	0	0	0	1	0	10	36	0	0	0	1	4	0	0	0	2	0	0	1	44	0	0	54
PER CENT	7.4%	9.3%	0.0%	0.0%	0.0%	0.0%	1.9%	0.0%	18.5%	66.7%	0.0%	0.0%	0.0%	1.9%	7.4%	0.0%	0.0%	0.0%	3.7%	0.0%	0.0%	1.9%	81.5%	0.0%	0.0%	100%

4.3 Trend tables

4.3.1 Comparison of the reporting quarter (I/2011) with the previous quarter (IV/2010)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	I 2011 (no.)	IV 2010 (no.)	Difference	I 2011 (no.)	IV 2010 (no.)	Difference	I 2011 (no.)	IV 2010 (no.)	Difference	I 2011 (no.)	IV 2010 (no.)	Difference	I 2011 (no.)	IV 2010 (no.)	Difference
Albania															
Austria															
Belarus	346	305	41	259	207	52	87	98	-11						
Belgium															
Bosnia - Hercegovina	3	1	2	1		1	2	1	1						
Bulgaria															
Croatia	137	146	-9	132	127	5	5	19	-14						
Cyprus															
Czech Republic															
Denmark															
Estonia	1		1	1		1									
Finland															
France		2	-2								2	-2			
Germany															
Greece															
Hungary		2	-2		2	-2									
Iceland															
Ireland															
Italy	1	2	-1	1	2	-1									
Latvia		1	-1		1	-1									
Lithuania	5	11	-6	5	11	-6									
Luxembourg															
Macedonia															
Malta															
Moldova	17	20	-3	6	5	1	11	15	-4						
Montenegro	*	7		*	5		*	2		*			*		
Norway															
Poland	54	107	-53	44	91	-47	10	16	-6						
Portugal															
Romania	83	83		60	58	2	23	25	-2						
Russian Federation	674	869	-195	374	436	-62	298	431	-133				2	2	
Serbia	20	23	-3	18	21	-3	2	2							
Slovak Republic															
Slovenia															
Spain															
Sweden															
Switzerland + Lichtenstein															
The Netherlands		1	-1								1	-1			
Turkey	55	53	2	9	4	5	46	49	-3						
Ukraine	338	519	-181	128	185	-57	210	334	-124						
United Kingdom															
TOTAL	1734	2152	-411	1038	1155	-112	694	992	-296	0	3	-3	2	2	0

Wildlife: excluding bats

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

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

* no data

4.3.2 Comparison of the reporting quarter (I/2011) with the same quarter of the previous year (I/2010)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	I 2011 (no.)	I 2010 (no.)	Difference	I 2011 (no.)	I 2010 (no.)	Difference	I 2011 (no.)	I 2010 (no.)	Difference	I 2011 (no.)	I 2010 (no.)	Difference	I 2011 (no.)	I 2010 (no.)	Difference
Albania															
Austria															
Belarus	346	209	137	259	167	92	87	42	45						
Belgium															
Bosnia - Hercegovina	3	10	-7	1	9	-8	2	1	1						
Bulgaria		4	-4		2	-2		2	-2						
Croatia	137	209	-72	132	187	-55	5	22	-17						
Cyprus															
Czech Republic															
Denmark															
Estonia	1		1	1		1									
Finland															
France															
Germany		2	-2					1	-1		1	-1			
Greece															
Hungary		7	-7		6	-6		1	-1						
Iceland															
Ireland															
Italy	1	133	-132	1	124	-123		9	-9						
Latvia		7	-7		6	-6		1	-1						
Lithuania	5	8	-3	5	6	-1		2	-2						
Luxembourg															
Macedonia															
Malta															
Moldova	17	*		6	*		11	*			*			*	
Montenegro	*	26		*	23		*	3		*	*		*	*	
Norway															
Poland	54	9	45	44	9	35	10		10						
Portugal															
Romania	83	194	-111	60	162	-102	23	32	-9						
Russian Federation	674	776	-102	374	387	-13	298	386	-88				2	3	-1
Serbia	20	45	-25	18	44	-26	2	1	1						
Slovak Republic															
Slovenia		8	-8		7	-7		1	-1						
Spain															
Sweden															
Switzerland + Lichtenstein															
The Netherlands															
Turkey	55		55	9		9	46		46						
Ukraine	338	588	-250	128	259	-131	210	329	-119						
United Kingdom															
TOTAL	1734	2235	-492	1038	1398	-343	694	833	-147	0	1	-1	2	3	-1

Wildlife: excluding bats

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

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

* no data

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
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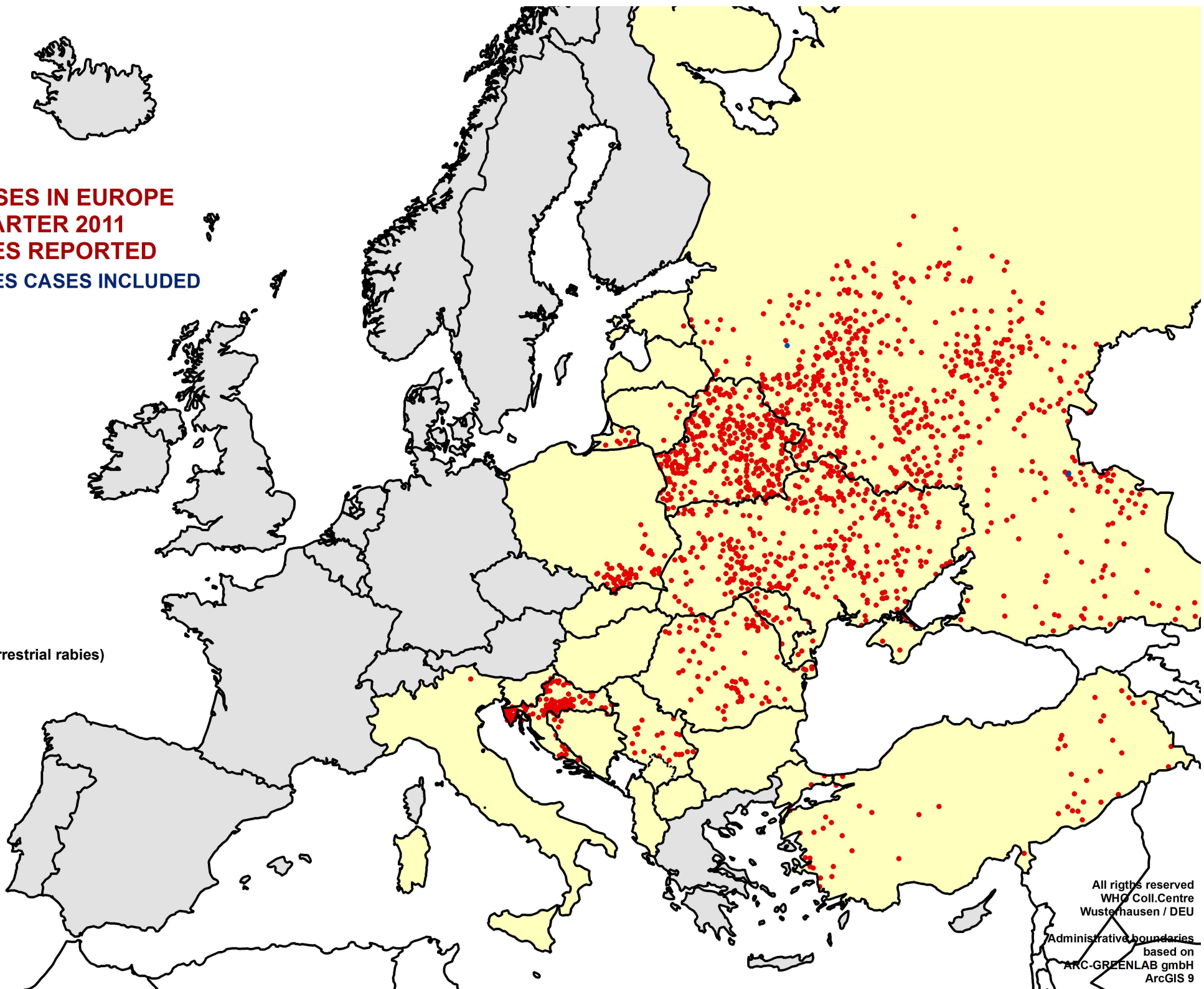
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Please inform the editor about changes
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RABIES CASES IN EUROPE
1st QUARTER 2011
1734 CASES REPORTED
2 HUMAN RABIES CASES INCLUDED

 rabies free (terrestrial rabies)
 no data



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