RABIES BULLETIN EUROPE

Volume 30 No 3 Quarter 3 2006

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www.druckerei-hk.de

ISSN 0257-8506

The Rabies Bulletin Europe is also available online: www.who-rabies-bulletin.org.

Acknowledgements

The Rabies Bulletin Europe is sponsored by the:

World Health Organization, Geneva
World Organisation for Animal Health (OIE), Paris

Gratefully acknowledged is the financial support of the WHO Collaborating Centre by the

Bundesministerium für Gesundheit und Soziale Sicherung and by the Bundesministerium für Ernährung, Landwirtschaft und Verbraucherschutz, Germany

1. Editorial

In this issue, we present rabies data from European countries for the 3rd quarter of 2006. The decline of rabies cases in some countries demonstrates that oral vaccination of foxes is very effective in controlling rabies. Also, the list of European countries that have eliminated terrestrial rabies continues to increase.
Other parts of the world are not in such a favourable position in terms of rabies and other infectious diseases. To look beyond the Europe's borders, the first miscellaneous article reflects the epidemiology of rabies in the middle-eastern country of the Kyrgiz Republic. Rabies in the Kyrgiz Republic not only causes losses in farm and domestic animals, but also leads human cases.
In a joint effort, the Office International des Epizooties (OIE, World Organisation for Animal Health), the World Health Organization (WHO), and the European Union (EU) organized a conference "Towards the elimination of Rabies in Eurasia" held in Paris in May 2007. We would like to take the opportunity to publish the introduction to this conference written by the director general Dr. Bernard Vallat.
As a medium for rabies data and information it is an honour to promote the first "WORLD RABIES DAY" scheduled for September 8, 2007. The goal of "WORLD RABIES DAY" is to engage at least 55,000 people across the world to take action on this day - one person participating for every human victim of rabies that died needlessly during the year. The Alliance for Rabies Control is helping to coordinate this event.

Conrad Freuling

2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES 3rd QUARTER 2006 01.07.06 -30.09.06

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	4	3	1	0	0
AUSTRIA	AUT	1	1	0	0	0
BELARUS	BLR	383	254	129	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	16	12	4	0	0
BULGARIA	BGR	2	1	1	0	0
CROATIA	HRV	133	120	13	0	0
CYPRUS	CYP	0	0	0	0	0
CZECH REPUBLIC	CZH	0	0	0	0	0
DENMARK	DNK	8	0	0	8	0
ESTONIA	EST	8	6	2	0	0
FINLAND	FIN	0	0	0	0	0
FRANCE	FRA	1	0	0	1	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	0	0	0	0	0
LATVIA	LVA	78	56	22	0	0
LITHUANIA	LTU	451	360	91	0	0
LUXEMBOURG	LUX	0	0	0	0	0
MACEDONIA	MKD	*	*	*	*	*
MALTA	MLT	0	0	0	0	0
MOLDOVA	MDA	*	*	*	*	*
MONTENEGRO	MNE	*	*	*	*	*
NETHERLANDS	NED	5	0	0	5	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	23	13	7	3	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	41	27	14	0	0
RUSSIAN FEDERATION	RUS	261	134	127	0	0
SERBIA	SRB	38	35	3	0	0
SLOVAK REPUBLIC	SVK	1	1	0	0	0
SLOVENIA	SVN	0	0	0	0	0
SPAIN	ESP	1	0	1	0	0
SWEDEN	SWE	0	0	0	0	0
SWITZERLAND + LIEC.	CHE	0	0	0	0	0
TURKEY	TUR	71	9	62	0	0
UKRAINE	UKR	424	203	221	0	0
UNITED KINGDOM	UNK	0	0	0	0	0
TOTAL		1953	1235	698	20	0

Wildlife: excluding bats *** no data**

3. Miscellaneous Articles

3.1 EPIDEMIOLOGY OF FOX RABIES IN THE KYRGYZ REPUBLIC

Taichiev, I.T[1], A. Botvinkin[2]

The Kyrgyz Republic is a Central Asian country surrounded by Kazakhstan in the North, China in the Southeast, Tadzhikistan in the South and Uzbekistan in the West.

Fig 1: Kyrgiz Republic and surrounding countries

Rabies was endemic during the past 45 years. The majority (98.1%) of all rabies cases were reported in domestic animals with farm animals were mostly affected (65.7%), followed by dogs (33.4%) and cats (0. 9%.).

Although wildlife rabies has been notified only scarcely it is considered to be of eminent importance to the rabies spread and transmission in the Kirgiz Republic (1). Of all wild animals tested rabies positive foxes made up 72.4 %, wolves 17.0%, badgers 7.6% and jackals, snow leopard and polecats 1.0%. Until the middle of the 1960s no cases of wildlife rabies were officially reported in the Kyrgyz Republic. Afterwards the detection of rabies in wild animals varied between 2.1 % and 6.7%. Rabies transmitted by foxes was initially reported in 1964-1965 in northern areas along the border with Kazakhstan. This fox mediated rabies epizootic then spread southwestward to other districts. In 1968-1969 an outbreak of rabies among foxes involving badgers and farm animals was observed in the wal nut woods of Fergana mountain range (2). By the 1970s and -80s fox rabies had almost spread to the entire territory of the country and by 1982 it reached the southwest border of the republic with Tajikistan and Uzbekistan. Wildlife rabies is mainly endemic in the southern parts of the republic, especially in areas bordering Fergana and Alai mountain ranges. Here, the fox density seems to be relatively high varying from 5.8 up to 7.9 individuals per 10 square kilometres, and hence, is substantially higher than in other areas. In the north of the republic fox rabies is mainly found in the elevated plains of Chui and Issyk-Kul, whereas in the high mountainous areas of Naryn wolf rabies appears to be predominant. Thus, for the period of 1964-1982, wildlife rabies transmitted by wild carnivores, mainly by foxes, is reported in all moderate climatic zones of the republic. These findings are in accordance with results of rabies data analysis from neighbouring Central Asian countries (3-5).

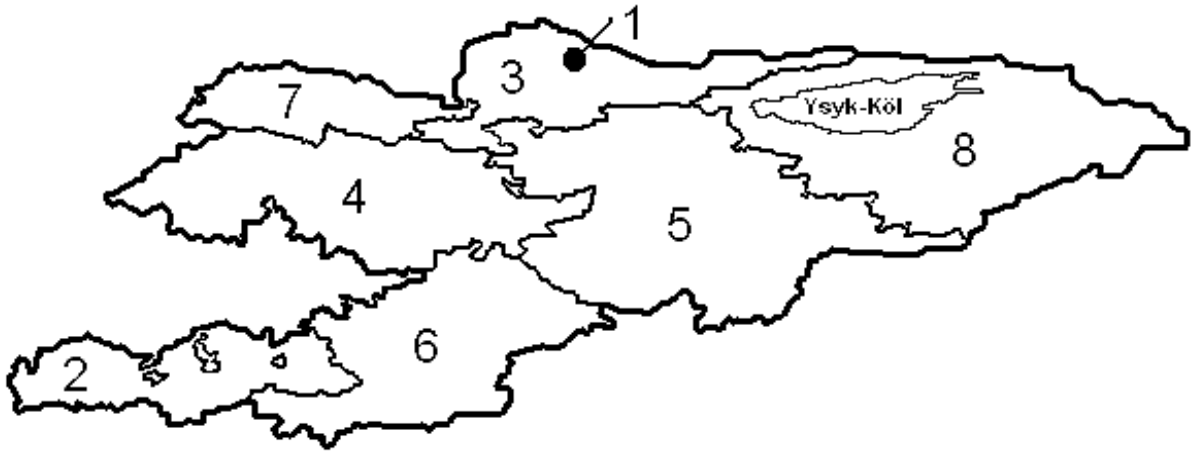

Fig. 2: Oblasts of Kyrgyz Republic: Bischkek(1); Batken(2); Tschüi(3); Dschalalabat(4); Naryn(5); Osch(6); Talas(7); Yssykköl (8)
Source of fig 1 and 2: wikimedia commons, http://de.wikipedia.org/wiki/Bild:LocationKyrgyzstan.png

The data of the Kyrgyz republic also demonstrate significant changes in rabies prevalence during the year. In wildlife, the peak of rabies prevalence is in March whereas domestic animals are mostly affected in May indicating that this lag is evidence for the transmission of rabies from wildlife to domestic carnivores subsequently leading to an increase in exposure to rabies virus in domestic animals. An analysis of health authority data shows that dogs are predominant source for exposure of humans counting for 86.9% of human rabies cases and 92.3% of the post exposure prophylaxis. On average, per human case 35 cases of animal rabies are reported and 616 humans receive post exposure prophylaxis after contact with a rabid or rabies suspected animal. In relation to domestic animals this proportion is 1:36:642 versus 1:10:216 in wild carnivores. One main factor of this ratio which demonstrates that people in rural areas are at a higher risk to die of rabies might be the lack of public awareness in remote areas as well as limited resources to obtain proper post exposure prophylaxis. This indicates a need for improvement in the post exposure prophylaxis for humans throughout the country.

In summary, epidemiological data from the Kyrgyz Republic suggests that rabies is present in both domestic as well as wild animals. However, it is not know yet whether the data support the existence of two independent rabies transmission cycles (fox-mediated and dog-mediated). Therefore, further research in rabies epidemiology especially in terms of wild and domestic carnivores is necessary. The knowledge of rabies reservoirs can then be used to promote adequate safeguard measures for humans and domestic animals and eventually lead to a control strategy for rabies in the Kirgiz Republic.

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3. Alimov D. M. Questions of epizootic rabies in Uzbekistan. Dissertation abstract, Baku, 1969, 16 p.

4. Zarubin G. A. about cases of a presence of a rabies virus at the foxes in Southern Tajikistan // Materials of the 10th all-union conference on PGR. Dushanbe, 1979, pp. 88-89

5. Sansyzbaev B. K. Some epidemiological and epizootic aspects of hydrophobia in Kazakh SSR// Journal JMEI, 1975, #5, pp. 139-140.

[1] Department of epidemiology and microbiology, Medical Institute, Osh State University, Kyrgyz Republic

[2] Plague Control Research Institute of Siberia and the Far East, Irkutsk, Russia

3.2 INTRODUCTION TO THE JOINT OIE/WHO/EU INTERNATIONAL CONFERENCE: TOWARDS THE ELIMINATION OF RABIES IN EURASIA, PARIS, MAY 2007

Dr Bernard Vallat
Director General, OIE

The theme of this second Conference on rabies hosted by the OIE in collaboration with the WHO and EU - Towards the elimination of rabies in Eurasia - signifies the commitment of the World Organisation for Animal Health to preventing and controlling animal diseases and zoonoses worldwide. Following the very successful first Conference on rabies, held in Kiev in 2005, this Conference aims to take the recommendations of the Kiev Conference one step further by seeking answers to questions on how we could proceed towards the eventual elimination of this most feared zoonotic disease - not only in Eurasia but all over the globe.

In spite of rapid advances in diagnostics, vaccine development and the application of novel technologies to controlling the disease, rabies remains a significant cause of death in humans following exposure to rabid animals. It is therefore the prime responsibility of the veterinary profession to apply its knowledge and skills in animal disease control to creating a buffer between the animal source of the disease and susceptible human beings. An important prerequisite to achieving this goal is the ability of the veterinary services of countries to institute and apply the international standards for the control of animal diseases and zoonoses. The OIE, fully realizing the need of many developing and in-transition countries to improve the governance and delivery of their veterinary services, has embarked on a global campaign to publicise the importance of accepting the delivery of veterinary services as an international public good. Only by assisting countries in need to applying the minimum standards for animal disease control will we be able to fully benefit from the advantages of new technologies to eventually move towards the elimination of rabies.

This Conference brings together veterinarians, researchers and regulatory officials in both animal and public health to not only share their experiences but also to confirm their common commitment to adding rabies to the list of diseases that have been successfully controlled and eliminated by the veterinary profession. The Conference will highlight important epidemiological

developments the disease in Eurasia and will share the experiences and opinions of experts on the prevention and control of rabies in dogs, wildlife and bats; the prevention of the disease in humans and cooperation between public health and animal health authorities; advances in technologies and vaccine development. I am convinced that the veterinary profession, together with their colleagues in the public health sector, has the ability, knowledge, expertise and commitment to realise the ideal of this Conference and to conclude what Pasteur started when he developed the first rabies vaccine more than a century ago.

Source: http://www.oie.int/eng/Rabies2007/home.htm

3.3 ANNOUNCEMENT: 1ST WORLD RABIES DAY - SEPTEMBER 8, 2007

Rabies, a totally preventable disease that still claims a large number of human and animal lives across the world, is a tragedy that could be avoided if the global community would begin to use the tools that are already available to solve this problem.

The population most affected by human rabies are children, as approximately 50% of all human deaths occur in victims less than 15 years of age. Additionally, human rabies is more prevalent in populations belonging to the poor and disenfranchised part of society. Clearly, increased global educational awareness would help to focus attention on the continuing tragedy associated with rabies. With this in mind, the first "WORLD RABIES DAY" has been scheduled for September 8, 2007. The goal of WORLD RABIES DAY is to engage at least 55,000 people across the world to take action on this day - one person participating for every human victim of rabies that died needlessly during the year. The Alliance for Rabies Control is helping to coordinate this event. The Alliance is a registered UK charitable trust, which together with public health professionals, aims to build global partnerships across the world to halt the ongoing tragedy of death due to rabies. The objectives of WORLD RABIES DAY are to increase global awareness about rabies prevention and control as to the scale of the rabies tragedy and the feasibility of preventing and controlling the disease in both humans and animals. As a member of the international community, we urge you to join forces with us to make a difference in rabies prevention. For more information please visit www.worldrabiesday.org or contact info@worldrabiesday.org.

Alliance for Rabies Control
Easter Bush
Roslin,Midlothian
EH25 9RG
U.K.

4 DISTRIBUTION OF RABIES IN EUROPE

4.1 Country summaries of rabies cases, 3rd quarter 2006

01.07.06-30.09.06

Country		Domestic animals									Wildlife																	
Name	Code	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	racoon dog	racoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal	bat	Human cases	total
Albania	ALB			1						1	3													3			4
Austria	AUT									0	1													1			1
Belarus	BLR	36	54	32	5				2	129	216	21					14						3	254			383
Belgium	BEL *									0														0			0
Bosnia - Hercegovina	BIH	1		2					1	4	10						2							12			16
Bulgaria	BGR		1							1	1													1			2
Croatia	HRV	8	3	2						13	120													120			133
Cyprus	CYP *									0														0			0
Czech Republic	CZH *									0														0			0
Denmark	DNK									0														0	8		8
Estonia	EST	1	1							2	3	2						1						6			8
Finland	FIN *									0														0			0
France	FRA									0														0	1		1
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			0
Latvia	LVA	7	12	3						22	24	25			3				1	1			2	56			78
Lithuania	LTU	19	18	50	4					91	129	174			6	39	8			3			1	360			451
Luxembourg	LUX *									0														0			0
Macedonia	MKD **																										
Malta	MLT *									0														0			0
Moldova	MDA **																										
Montenegro	MNE **																										
Norway	NOR *									0														0			0
Poland	POL	1	2	4						7	11	2												13	3		23
Portugal	PRT *									0														0			0
Romania	ROU	3	5	4	1	1				14	24				2		1							27			41
Russian Federation	RUS	43	46	30	1	5		2		127	113	10			1	2	3	1					4	134			261
Serbia	SRB	1	1	1						3	35													35			38
Slovak Republic	SVK									0	1													1			1
Slovenia	SVN *									0														0			0
Spain	ESP	1								1														0			1
Sweden	SWE *									0														0			0
Switzerland + Lichtenstein	CHE *									0														0			0
The Netherlands	NED									0														0	5		5
Turkey	TUR	33	4	19	2	4				62	8							1						9			71
Ukraine	UKR	70	82	59	3	6	1			221	169	5		4	4	13	6						2	203			424
United Kingdom	UNK *									0														0			0
TOTAL		224	229	207	16	16	1	2	3	698	868	239	0	4	16	54	34	3	1	4	0	0	12	1235	20	0	1953
PER CENT		11,5%	11,7%	10,6%	0,8%	0,8%	0,1%	0,1%	0,2%	35,7%	44,4%	12,2%	0,0%	0,2%	0,8%	2,8%	1,7%	0,2%	0,1%	0,2%	0,0%	0,0%	0,6%	63,2%	1,0%	0,0%	100%

* NO CASES ** NO DATA

4.2 Rabies cases per country and administrative units, 3rd quarter 2006

01.07.06-30.09.06

Location	*Domestic animals*									*Wildlife*														bat	Human cases	total
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	racoon dog	racoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal			
ALBANIA																										
Kukes			1						1	3													3			4
TOTAL	0	0	1	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	4
PER CENT	0,0%	0,0%	25,0%	0,0%	0,0%	0,0%	0,0%	0,0%	25,0%	75,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	75,0%	0,0%	0,0%	100%
AUSTRIA																										
Mittelburgenland									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%
BELARUS																										
Brest	3	1							4	15	1												16			20
Gomel	8	9	4						21	36	4					1						2	43			64
Grodno	2	7	2						11	48						5							53			64
Minsk	14	18	14	2					48	47	4					5						1	57			105
Mogelev	3	1	2						6	47	3												50			56
Vitebsk	6	18	10	3				2	39	23	9					3							35			74
TOTAL	36	54	32	5	0	0	0	2	129	216	21	0	0	0	0	14	0	0	0	0	0	3	254	0	0	383
PER CENT	9,4%	14,1%	8,4%	1,3%	0,0%	0,0%	0,0%	0,5%	33,7%	56,4%	5,5%	0,0%	0,0%	0,0%	0,0%	3,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,8%	66,3%	0,0%	0,0%	100%
LITHUANIA																										
Alytaus	3	1	5						9	26	7				2	2							37			46
Kauno	4	1	8						13	16	28				4	2			1				51			64
Klaipedos		1							1	2	4				1								7			8
Marijampoles		5	15						20	4	8				3				1				16			36
Panevezio	2	2	3						7	3	6				5								14			21
Siauliu	2	1	2	1					6	8	3			1	5	3							20			26
Taurages		2							2	2					2								4			6
Telsiu			3						3	6	2				1								9			12
Utenos	6	4	9	3					22	36	77			3	10								126			148
Vilniaus	2	1	5						8	26	39			2	6	1			1			1	76			84
TOTAL	19	18	50	4	0	0	0	0	91	129	174	0	0	6	39	8	0	0	3	0	0	1	360	0	0	451
PER CENT	4,2%	4,0%	11,1%	0,9%	0,0%	0,0%	0,0%	0,0%	20,2%	28,6%	38,6%	0,0%	0,0%	1,3%	8,6%	1,8%	0,0%	0,0%	0,7%	0,0%	0,0%	0,2%	79,8%	0,0%	0,0%	100%
SPAIN																										
Ceuta	1								1														0			1
TOTAL	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
PER CENT	100,0%	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%	0,0%	0,0%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2006

01.07.06-30.09.06

Location	*Domestic animals*									*Wildlife*														bat	Human cases	total
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	racoon dog	racoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal			
CROATIA																										
Bjelovarsko - Bilogorska		1							1	1													1			2
Brodsko - Posavska	1								1	15													15			16
Karlovacka									0	8													8			8
Koprivnisko - Krizevaska	1								1	7													7			8
Krapinsko - Zagorska									0	4													4			4
Licko - Senjska									0	5													5			5
Pozesko - Slovanska									0	4													4			4
Primorsko - Goranska									0	5													5			5
Sisacko - Moslovacka	4	2	2						8	34													34			42
Varazdinska									0	2													2			2
Viroticko - Podravska									0	3													3			3
Zagreb									0	1													1			1
Zagrebacka	2								2	31													31			33
TOTAL	8	3	2	0	0	0	0	0	13	120	0	0	0	0	0	0	0	0	0	0	0	0	120	0	0	133
PER CENT	6,0%	2,3%	1,5%	0,0%	0,0%	0,0%	0,0%	0,0%	9,8%	90,2%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	90,2%	0,0%	0,0%	100%
DENMARK																										
Århus amt									0														0	1		1
Frederiksborg amt									0														0	1		1
København amt									0														0	1		1
Nordjyllands amt									0														0	1		1
Storstrøms amt									0														0	4		4
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	8
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%
ESTONIA																										
Harju		1							1	1	1												2			3
Tartu									0		1												1			1
Valga									0	1													1			1
Viljandi									0	1							1						2			2
Vöru	1								1														0			1
TOTAL	1	1	0	0	0	0	0	0	2	3	2	0	0	0	0	0	1	0	0	0	0	0	6	0	0	8
PER CENT	12,5%	12,5%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	25,0%	37,5%	25,0%	0,0%	0,0%	0,0%	0,0%	0,0%	12,5%	0,0%	0,0%	0,0%	0,0%	0,0%	75,0%	0,0%	0,0%	100%
SERBIA																										
Central Serbia			1						1	11													11			12
Vojvodina	1	1							2	24													24			26
TOTAL	1	1	1	0	0	0	0	0	3	35	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	38
PER CENT	2,6%	2,6%	2,6%	0,0%	0,0%	0,0%	0,0%	0,0%	7,9%	92,1%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	92,1%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2006

01.07.06-30.09.06

Location	*Domestic animals*									*Wildlife*														bat	Human cases	total
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	racoon dog	racoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal			
GERMANY																										
Kiel,Stadt									0														0	1		1
Merzig-Wadern									0														0	1		1
Teltow-Fläming									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%
THE NETHERLANDS																										
Friesland									0														0	1		1
Gelderland									0														0	1		1
Groningen									0														0	2		2
Noord-Holland									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	5	0	5
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%
LATVIA																										
Aluksnes r.	1								1	2												1	3			4
Bauskas r.									0		1												1			1
Cesu r.		1							1	3	2												5			6
Dobeles r.		1							1	2													2			3
Gulbenes r.									0	1													1			1
Jekabpils r.									0		1												1			1
Jelgavas r.	2								2	1													1			3
Kraslava r.			2						2														0			2
Kuldigas r.									0		1												1			1
Liepajas r.									0		1												1			1
Limbazu r.		1	1						2	1				2									3			5
Ludzas r.	2	1							3														0			3
Madonas r.		1							1	1	2												3			4
Ogres r.	1	1							2	1													1			3
Preiiu r.		2							2										1			1	2			4
Rezeknes r.									0	1													1			1
Riga									0	1													1			1
Rigas r.	1								1		3												3			4
Saldus r.		2							2	1													1			3
Talsu r.		1							1	3	3							1					7			8
Valkas r.									0	1	5												6			6
Valmieras r.									0	2	5			1									8			8
Ventpils r.		1							1	3	1												4			5
TOTAL	7	12	3	0	0	0	0	0	22	24	25	0	0	3	0	0	0	1	1	0	0	2	56	0	0	78
PER CENT	9,0%	15,4%	3,8%	0,0%	0,0%	0,0%	0,0%	0,0%	28,2%	30,8%	32,1%	0,0%	0,0%	3,8%	0,0%	0,0%	0,0%	1,3%	1,3%	0,0%	0,0%	2,6%	71,8%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2006

01.07.06-30.09.06

Location	*Domestic animals*									*Wildlife*														bat	Human cases	total
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	racoon dog	racoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal			
TURKEY																										
Adana	2								2														0			2
Aydin	1		3						4	2													2			6
Bingöl			1						1														0			1
Bitlis	1								1														0			1
Diyarbakir	3								3														0			3
Elazig	2	1	1						4	1													1			5
Erzurum			1						1														0			1
Gaziantep					1				1														0			1
Hatay	2		1		3				6														0			6
Istanbul	5								5	1													1			6
Izmir	8	2	5						15	3													3			18
K.Maras	2								2														0			2
Kocaeli	1								1														0			1
Malatya	1								1														0			1
Manisa									0	1													1			1
Mardin	2		5	1					8														0			8
Mus	1								1														0			1
Sakarya	1								1														0			1
Sirnak				1					1														0			1
Zonguldak	1	1	2						4								1						1			5
TOTAL	33	4	19	2	4	0	0	0	62	8	0	0	0	0	0	0	1	0	0	0	0	0	9	0	0	71
PER CENT	46,5%	5,6%	26,8%	2,8%	5,6%	0,0%	0,0%	0,0%	87,3%	11,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	1,4%	0,0%	0,0%	0,0%	0,0%	0,0%	12,7%	0,0%	0,0%	100%
BULGARIA																										
Varna		1							1	1													1			2
TOTAL	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
PER CENT	0,0%	50,0%	0,0%	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%
SLOVAK REPUBLIC																										
Bratislavský kraj									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, 3rd quarter 2006

01.07.06-30.09.06

Location	*Domestic animals*									*Wildlife*														bat	Human cases	total
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	racoon dog	racoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal			
ROMANIA																										
Alba	1								1	2													2			3
Arges			1						1														0			1
Bistrita-Nasaud									0	1													1			1
Brasov	1	1							2														0			2
Buzau		4	1						5	1													1			6
Calarasi									0	1													1			1
Caras-Severin				1					1														0			1
Cluj									0	1													1			1
Covasna									0	3													3			3
Dambovita									0	1													1			1
Dolj									0	1													1			1
Galati									0	1													1			1
Giurgiu									0	1													1			1
Harghita									0	1													1			1
Ialomita	1								1	3													3			4
Iasi									0							1							1			1
Mures									0	1													1			1
Olt									0	1													1			1
Suceava			1						1														0			1
Vaslui			1		1				2	3				1									4			6
Vrancea									0	2				1									3			3
TOTAL	3	5	4	1	1	0	0	0	14	24	0	0	0	2	0	1	0	0	0	0	0	0	27	0	0	41
PER CENT	7,3%	12,2%	9,8%	2,4%	2,4%	0,0%	0,0%	0,0%	34,1%	58,5%	0,0%	0,0%	0,0%	4,9%	0,0%	2,4%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	65,9%	0,0%	0,0%	100%
BOSNIA - HERCEGOVINA																										
Banja Luka	1								1	4						2							6			7
Bijeljina									0	3													3			3
Srednjebosanski									0	1													1			1
Tuzlanski									0	1													1			1
Vlasenica			2					1	3														0			3
Zenicko-dobojski									0	1													1			1
TOTAL	1	0	2	0	0	0	0	1	4	10	0	0	0	0	0	2	0	0	0	0	0	0	12	0	0	16
PER CENT	6,3%	0,0%	12,5%	0,0%	0,0%	0,0%	0,0%	6,3%	25,0%	62,5%	0,0%	0,0%	0,0%	0,0%	0,0%	12,5%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	75,0%	0,0%	0,0%	100%
FRANCE																										
Centre									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	1	0	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%	100,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2006

01.07.06-30.09.06

Location	*Domestic animals*									*Wildlife*														bat	Human cases	total
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	racoon dog	racoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal			
RUSSIAN FEDERATION																										
Astrahanskja obl.	5	1	2						8														0			8
Belgorodskja obl.	1	2	1	1					5	9													9			14
Brjanskaja obl.		2							2	2	1												3			5
Dagestan resp.		4	2						6	5													5			11
Ivanovskaja obl.									0	1													1			1
Jaroslavskaja obl.									0	2													2			2
Kabardino-Balkanskaja resp.	1	1	3						5														0			5
Kaliningradskaja obl.		2							2	4													4			6
Kalmykija resp.	1		2						3						1								1			4
Kaluzskaja obl.		2							2	13						1							14			16
Karacaevo-Cerkesskaja resp.									0	1													1			1
Krasnodarskij kr.		1	1						2	1													1			3
Kurskaja obl.									0	4													4			4
Lipeckaja obl.			2						2	3													3			5
Marij El resp.									0	3													3			3
Mordovija resp.									0	1													1			1
Moskovskaja obl.	2	3							5	8	4					2						2	16			21
Nizegorodskaja obl.									0	3													3			3
Orlovskaja obl.	1	1	1						3								1						1			4
Penzenskaja obl.									0	4													4			4
Pskovskaja obl.	5	3			3				11	10	1											1	12			23
Rjazanskaja obl.		1					1		2	1					1								2			4
Rostovskaja obl.	4	5	2				1		12	3													3			15
Saratovskaja obl.	4	3							7	7													7			14
Severnaja Osetija-Alanija resp.	2		3						5														0			5
Smolenskaja obl.			3						3	9	2			1									12			15
Stavropol'skij kr.	6	3	2		1				12	2													2			14
Tul'skaja obl.	2	2			1				5	2													2			7
Tverskaja obl.	1	1							2	9	2												11			13
Ul'janovskaja obl.		1							1														0			1
Vladimirskja obl.	2	5							7	4												1	5			12
Volgogradskaja obl.			5						5														0			5
Voronezskaja obl.	6	3	1						10	2													2			12
TOTAL	43	46	30	1	5	0	2	0	127	113	10	0	0	1	2	3	1	0	0	0	0	4	134	0	0	261
PER CENT	16,5%	17,6%	11,5%	0,4%	1,9%	0,0%	0,8%	0,0%	48,7%	43,3%	3,8%	0,0%	0,0%	0,4%	0,8%	1,1%	0,4%	0,0%	0,0%	0,0%	0,0%	1,5%	51,3%	0,0%	0,0%	100%

4.2 Rabies cases per country and administrative units, 3rd quarter 2006

01.07.06-30.09.06

Location	*Domestic animals*									*Wildlife*														bat	Human cases	total
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	racoon dog	racoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal			
UKRAINE																										
Bolynskaja o.									0		1												1			1
Cherkasskaja o.	7	10	6	1	3	1			28	16					1	1							18			46
Chernigovskaja o.	10	16	19						45	44	2		1	1	1	1						1	51			96
Dnepropetrovskaja o.	4		3						7	3					1								4			11
Donetskskaja o.	3	4							7	4													4			11
Khar'kovskaja o.		2	1	1					4	5													5			9
Khersonskaja o.	3	4	1						8	5	2												7			15
Khmel'nitskaja o.	4	2	3						9	11				1	1							1	14			23
Kirovogradskaja o.	5	11	4		2				22	14			1	1	1	1							18			40
Kiyevskaja o.		1		1					2	4													4			6
Luganskaja o.	2	1	4						7	1													1			8
L'vovskaja o.	1								1	1													1			2
Nikolayevskaja o.	1	5	1						7	6					1								7			14
Odesskaja o.		4	1						5	7					2								9			14
Poltavskaja o.	6	4	8		1				19	4						1							5			24
Rovenskaja o.		4							4	2													2			6
Sumskaya o.	8	1	3						12	1					1								2			14
Ternopol'skaja o.	4								4	3													3			7
Vinnitskaja o.	3	5	1						9	8				1		1							10			19
Zaporozhskaja o.	5	4	2						11	8			1										9			20
Zhitomirskaja o.	4	4	2						10	22			1		4	1							28			38
TOTAL	70	82	59	3	6	1	0	0	221	169	5	0	4	4	13	6	0	0	0	0	0	2	203	0	0	424
PER CENT	16,5%	19,3%	13,9%	0,7%	1,4%	0,2%	0,0%	0,0%	52,1%	39,9%	1,2%	0,0%	0,9%	0,9%	3,1%	1,4%	0,0%	0,0%	0,0%	0,0%	0,0%	0,5%	47,9%	0,0%	0,0%	100%
POLAND																										
Dolnoslaskie									0														0	1		1
Lubelskie									0	1													1			1
Podkarpackie									0	1													1			1
Podlaskie			4						4	5													5			9
Slaskie									0														0	1		1
Warminsko-Mazurskie		2							2	3	2												5			7
Wielkopolskie	1								1	1													1			2
Zachodniopomorskie									0														0	1		1
TOTAL	1	2	4	0	0	0	0	0	7	11	2	0	0	0	0	0	0	0	0	0	0	0	13	3	0	23
PER CENT	4,3%	8,7%	17,4%	0,0%	0,0%	0,0%	0,0%	0,0%	30,4%	47,8%	8,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	56,5%	13,0%	0,0%	100%

4.3 Trend tables

4.3.1 Comparison of the reporting quarter (III/2006) with the previous quarter (II/2006)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2006 (no.)	II 2006 (no.)	Difference	III 2006 (no.)	II 2006 (no.)	Difference	III 2006 (no.)	II 2006 (no.)	Difference	III 2006 (no.)	II 2006 (no.)	Difference	III 2006 (no.)	II 2006 (no.)	Difference
Albania	4	3	1	3	1	2	1	2	-1						
Austria	1		1	1		1									
Belarus	383	386	-3	254	321	-67	129	65	64						
Belgium															
Bosnia - Hercegovina	16	21	-5	12	17	-5	4	4							
Bulgaria	2	2		1	1		1	1							
Croatia	133	113	20	120	104	16	13	9	4						
Cyprus															
Czech Republic															
Denmark	8	2	6							8	2	6			
Estonia	8	34	-26	6	31	-25	2	3	-1						
Finland															
France	1		1							1		1			
Germany	3	4	-1							3	4	-1			
Greece															
Hungary															
Iceland															
Ireland															
Italy															
Latvia	78	139	-61	56	123	-67	22	16	6						
Lithuania	451	615	-164	360	530	-170	91	85	6						
Luxembourg															
Macedonia	*			*			*			*			*		
Malta															
Moldova*															
Montenegro	*	5		*	5		*			*			*		
Norway															
Poland	23	17	6	13	13		7	3	4	3	1	2			
Portugal															
Romania	41	41		27	29	-2	14	12	2						
Russian Federation	261	276	-15	134	123	11	127	153	-26						
Serbia	38	38		35	36	-1	3	2	1						
Slovak Republic	1		1	1		1									
Slovenia															
Spain	1		1				1		1						
Sweden															
Switzerland + Lichtenstein															
The Netherlands	5	2	3							5	2	3			
Turkey	71	65	6	9	4	5	62	61	1						
Ukraine	424	355	69	203	180	23	221	175	46						
United Kingdom															
TOTAL	1953	2118	-160	1235	1518	-278	698	591	107	20	9	11	0	0	0

Wildlife: excluding bats

III/2006 (no.), II/2006 (no.): number of cases

Difference: no. of cases in III/2006 minus cases in II/2006

* no data

4.3.2 Comparison of the reporting quarter (III/2006) with the same quarter of the previous year (III/2005)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2006 (no.)	III 2005 (no.)	Difference	III 2006 (no.)	III 2005 (no.)	Difference	III 2006 (no.)	III 2005 (no.)	Difference	III 2006 (no.)	III 2005 (no.)	Difference	III 2006 (no.)	III 2005 (no.)	Difference
Albania	4		4	3		3	1		1						
Austria	1		1	1		1									
Belarus	383	124	259	254	92	162	129	32	97						
Belgium															
Bosnia - Hercegovina	16	10	6	12	9	3	4	1	3						
Bulgaria	2		2	1		1	1		1						
Croatia	133	123	10	120	116	4	13	7	6						
Cyprus															
Czech Republic															
Denmark	8	1	7							8	1	7			
Estonia	8	70	-62	6	56	-50	2	14	-12						
Finland															
France	1		1							1		1			
Germany	3	21	-18		5	-5				3	12	-9		4	-4
Greece															
Hungary		2	-2		2	-2									
Iceland															
Ireland															
Italy															
Latvia	78	85	-7	56	73	-17	22	12	10						
Lithuania	451	458	-7	360	345	15	91	113	-22						
Luxembourg															
Macedonia*															
Malta															
Moldova*															
Montenegro	*	1		*	1		*			*			*		
Norway															
Poland	23	31	-8	13	23	-10	7	8	-1	3		3			
Portugal															
Romania	41	40	1	27	28	-1	14	12	2						
Russian Federation	261	781	-520	134	289	-155	127	492	-365						
Serbia	38	8	30	35	7	28	3	1	2						
Slovak Republic	1	8	-7	1	8	-7									
Slovenia															
Spain	1		1				1		1						
Sweden															
Switzerland + Lichtenstein															
The Netherlands	5	1	4							5	1	4			
Turkey	71	50	21	9	1	8	62	49	13						
Ukraine	424	495	-71	203	203		221	290	-69		2	-2			
United Kingdom		1	-1											1	-1
TOTAL	1953	2310	-356	1235	1258	-22	698	1031	-333	20	16	4	0	5	-5

Wildlife: excluding bats

III/2006 (no.), III/2005 (no.): number of cases
Difference: no. of cases in III/2006 minus cases in III/2005

* no data

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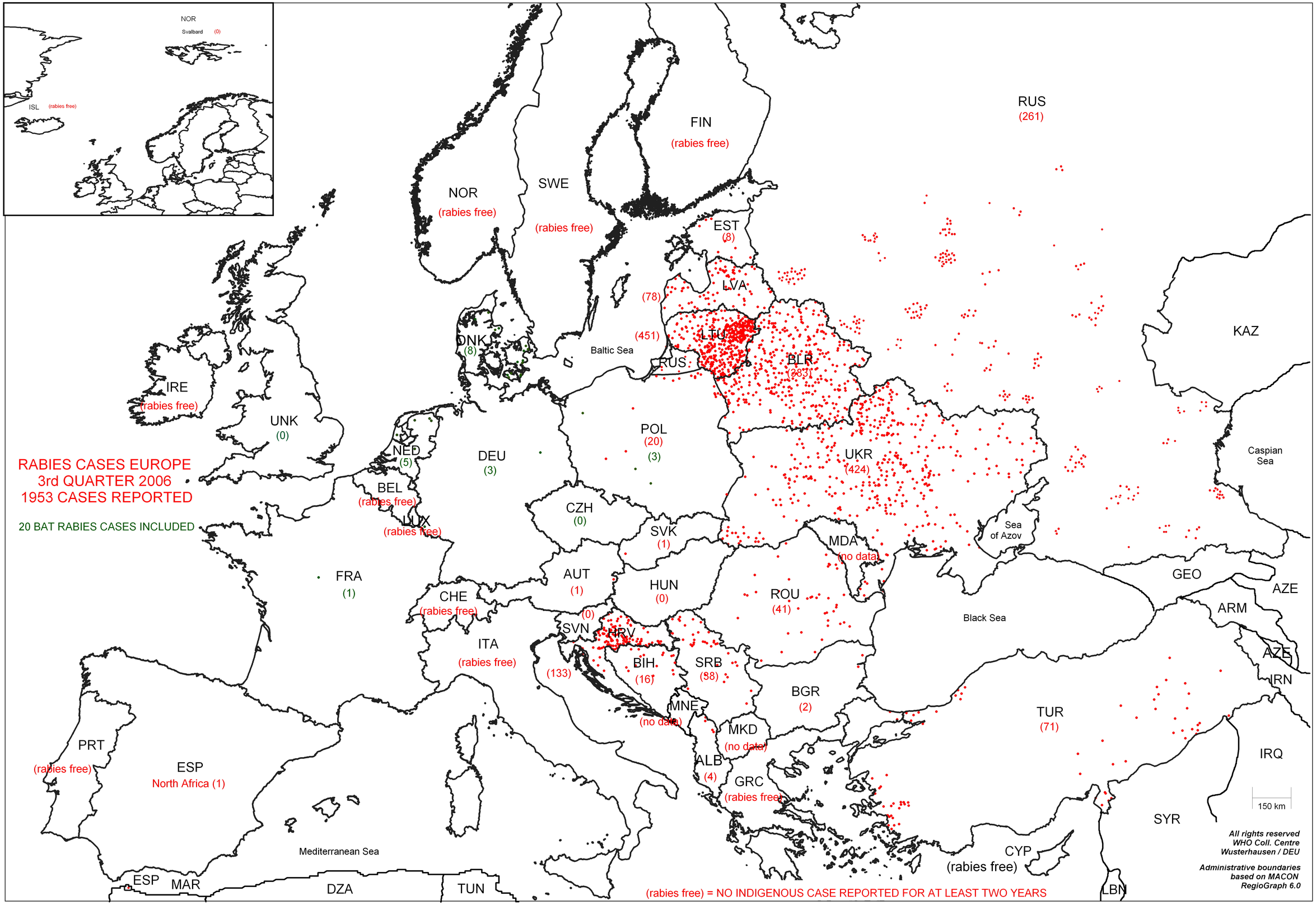

RABIES CASES EUROPE
3rd QUARTER 2006
1953 CASES REPORTED

20 BAT RABIES CASES INCLUDED

Administrative boundaries based on MACON RegioGraph 6.0

(rabies free) = NO INDIGENOUS CASE REPORTED FOR AT LEAST TWO YEARS