RABIES BULLETIN EUROPE

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CONTENTS

Editor: Dr. Carsten J. Pötzsch

Technical Support: Anke Kliemt

Contact: WHO Collaborating Centre for Rabies Surveillance and Research
Institute of Epidemiology
Fed. Res. Centre for Virus Diseases of Animals
Seestr. 55, D-16868 Wusterhausen, Germany
phone: ..49 (0) 33979 80158
fax: ..49 (0) 33979 80200
email: who-rabies@wus.bfav.de

Print: Graphische Betriebe Köhler
Vor dem Kreuzberg 25, 72070 Tübingen, Germany
phone: ..49 (0) 7071 98 98 66
fax: ..49 (0) 7071 98 98 678
email: info@koehlerdruck.de
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1. EDITORIAL

In this issue, we continue the applied orientation of the Miscellaneous Articles with two papers – one about rabies control in Finland and one about practical results of the modelling of rabies control.

The report from Finland demonstrates that freedom from rabies could only be achieved by means of long-term control and surveillance measures. Particular attention was paid to minimizing the risk of the disease being re-introduced.

The other article introduces the concept of an area index. The results presented in this paper suggest that rabies control can be achieved the faster the larger the area of oral vaccination is and, especially, the more continuously this area is treated. Although the outcome of this investigation is only valid for the regions studied, experiences from long years of rabies control generally confirm these recommendations. The success of rabies control by means of oral vaccination depends on long-term intervention in sufficiently large areas.

For the first time in many years, the Rabies Bulletin Europe contains data from all European countries. This is of great value for the rabies database of the Bulletin as well as for everybody working in the field of European rabies control, surveillance or research. Therefore, I would like to thank the representatives of the European countries for their rabies reports.

Carsten J. Pötzsch

2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES ***2nd QUARTER 2003*** **01.04.03 -31.06.03**

Name	Code	Total	Wildlife	Domestic animals	Bats	Human	Remarks
ALBANIA	ALB	0					no cases
AUSTRIA	AUT	1	0	1	0	0	
BELARUS	BLR	325	233	92	0	0	
BELGIUM	BEL	0					rabies free
BOSNIA AND HERCEGOVINA	BIH	16	14	2	0	0	
BULGARIA	BUL	4	2	2	0	0	
CROATIA	HRV	105	97	8	0	0	
CYPRUS	CYP	0					rabies free
CZECH REPUBLIC	CZH	0					no cases
DENMARK	DNK	0					no cases
ESTONIA	EST	190	176	14	0	0	
FED. REP. OF YUGOSLAVIA	YUG	67	49	18	0	0	
FINLAND	FIN	1	0	1	0	0	rabies free *
FRANCE	FRA	0					no cases
GERMANY	DEU	6	2	0	4	0	
GREECE	GRC	0					rabies free
HUNGARY	HUN	30	21	9	0	0	
ICELAND	ISL	0					rabies free
IRELAND	IRE	0					rabies free
ITALY	ITA	0					rabies free
LATVIA	LVA	267	220	47	0	0	
LITHUANIA	LTU	314	242	72	0	0	
LUXEMBOURG	LUX	0					rabies free
MACEDONIA	MKD	0					no cases
MOLDOVA	MDA	6	3	3	0	0	
NETHERLANDS	NED	3	0	0	3	0	
NORWAY	NOR	0					rabies free
POLAND	POL	70	56	12	2	0	
PORTUGAL	PRT	0					rabies free
ROMANIA	ROU	34	28	6	0	0	
RUSSIAN FEDERATION	RUS	825	425	400	0	0	
SLOVAK REPUBLIC	SVK	71	62	9	0	0	
SLOVENIA	SVN	0					no cases
SPAIN	ESP	1	0	1	0	0	
SWEDEN	SWE	0					rabies free
SWITZERLAND + LIEC.	CHE	0					no cases
TURKEY	TUR	50	8	42	0	0	
UKRAINE	UKR	500	222	277	1	0	
UNITED KINGDOM	UNK	0					no cases
TOTAL		2886	1860	1016	10	0	

Wildlife: **excluding bats**
Remarks: **rabies free: no indigenous case reported for at least two years (rabies free according to WHO definition)**

* one case of rabies in a horse imported from Estonia

3. MISCELLANEOUS ARTICLES

3.1 Documenting freedom from rabies and minimising the risk of rabies being re-introduced to Finland

by Prof. Liisa Sihvonen, National Veterinary and Food Research Institute
Department of Virology, P.O.Box 45, 00581 Helsinki, Finland.
E-mail: liisa.sihvonen@eela.fi

Sylvatic rabies outbreak in 1988-1989

Rabies reappeared in Finland in the spring of 1988 after a 29-year absence. Before 1959 all outbreaks had been dog-mediated. In early April 1988, one fox and one dog were diagnosed rabid west of the river Kymi, about 100 km west of the south-eastern national border. This time rabies occurred in sylvatic form. The major species involved was raccoon dog (Nyctereutes procyonoides) and not red fox (Vulpes vulpes). The first raccoon dogs had been observed in Finland in the 1930's, but a significant population was established during the 1970s and 1980s (Helle and Kauhala 1987). The calculated population density of the raccoon dog in the outbreak area was approximately 0.3 animal/km^2 in the spring and 1.0 animal/km^2 in the autumn. The population density of the red fox was about 0.15 and 0.3 animals/km^2, respectively.

During 1988 and 1989, 3015 animals from the whole country were examined for rabies. During the outbreak 66 animals were diagnosed rabid: 48 raccoon dogs, 12 foxes, 2 badgers, 2 cats, one dog and one young bull (Nyberg et al. 1992). No cases were recorded within 60 km of the national eastern border in spite of intensive sampling. Most probable hypothesis is that the infection was brought in by wolves migrating on the ice along the coast. Spread of rabies by land through an animal to animal chain from behind the south-eastern border seems unlikely. The third and least plausible hypothesis is that rabies could have entered Finland with raccoon dogs hiding in timber boxcars from the USSR.

The rabies virus was shown by monoclonal antibodies to be an arctic-type strain and different from the one occurring in foxes in continental Europe (Nyberg et al. 1992, Kulonen & Boldina 1993). Arctic rabies has been reported from Estonia, the Leningrad area and Kola peninsula (Selimov et al. 1990).

Rabies control and re-establishing rabies free status

The importance of lakes and the Kymi river in preventing and directing the expansion of the epidemic was obvious also in Finland. The raccoon dog sleeps for a variable time during winter. This phenomenon might be of importance in the epidemiology of rabies, because the contact rate might fall to the level at which the disease disappears.

In the outbreak area, vaccination of dogs was compulsory and voluntary vaccination of cats, cattle and horses was recommended. In the country as a whole, vaccination of dogs used for hunting and those put on show became compulsory and voluntary vaccination of pet dogs and cats was strongly recommended.

In September 1988, a field trial was started on oral immunisation of raccoon dogs and foxes against rabies. Rabies baits containing capsules with SAD B19 vaccine strain were distributed over the outbreak area. Throughout the following winter raccoon dogs and foxes from the campaign area were examined serologically for antibodies against rabies. 72% of raccoon dogs and 66% of the foxes had antibody titres indicating immunity (Nyberg et al. 1992). In April 1989 a second bait distribution campaign was carried out and baits were distributed over an area, including the first campaign area and a wide buffer zone surrounding it. In

the fall of 1989 the estimated infection area was baited a third time. In June 1990 the part of it not baited in 1988 was baited a third time. A surveillance of vaccination area was continued. The last case was recorded in February 1989. The outbreak area in south-eastern Finland was estimated to cover 1700 km^2 and the bait vaccination area covered about 8000 km^2. The rabies baits were evenly distributed, 15/km^2 if spread on the ground by hunters and 20/km^2 if by air. Finland was declared free of rabies again in 1991.

Minimising the risk of rabies being re-introduced

The unprotected area on the Russian side poses a risk for rabies spreading from that area into Finland, taking also into account the unfavourable rabies situation in Baltic countries (Sihvonen 2001). Finland tries to minimise the risk of rabies being re-introduced. To combat this risk a 20 km cordon sanitaire along the south-eastern border has been spread with vaccine baits once a year (in September) since the beginning of 90s (Figure 1). The size of the vaccination area is 4000 km^2. The baits are distributed by fix wing aircraft on agricultural area and forests 18-20 baits/km^2. Raccoon dogs and foxes are regularly examined serologically for antibodies against rabies to monitor the efficacy of bait vaccination. The results of these studies have been in line with earlier studies reported by Nyberg et al. (1992).

Raccoon dog and fox population reduction is an important part of prevention of an epidemic in wildlife. The populations of raccoon dogs and foxes in Finland are controlled by hunting.

Continuous surveillance and epidemiological screening is necessary to detect any new outbreaks of rabies at an early stage. During 2001 21 domestic animals and 685 wildlife animals (mostly raccoon dogs and foxes) were examined for rabies virus.

Dog-mediated rabies prevention is best accomplished by control of imported dogs and cats. Imported dogs and cats must be properly vaccinated.

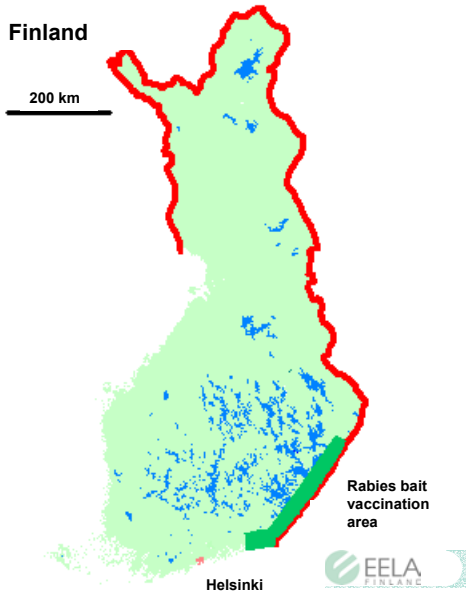

Figure 1: Area of oral rabies vaccination in Finland at the border to Russia

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3.2 Comparing European strategies for oral vaccination of foxes against rabies using an area index

from the Institute of Epidemiology, Federal Research Centre for Virus Diseases of Animals
WHO Collaborating Centre for Rabies Surveillance and Research
Seestr. 55, 16868 Wusterhausen; Germany

In Europe, oral vaccination of foxes has been successfully applied to combat rabies. Since the first field trial in 1978 large parts of western Europe could be freed from rabies with this modern and powerful method of disease control. However, within the last 23 years often diverse spatial and temporal strategies were applied within national oral vaccination programmes (OVP). Next to other parameters, these strategies differed with respect to the selection and to the size of vaccination areas during the course of successive vaccination campaigns. While in some countries vaccination areas were adapted to the rabies situation at time of vaccination (patch work) others used consistent large scale or overlapping vaccination schemes. Also concepts considering natural barriers were followed. By and by, it seemed that these spatial strategies resulted in differences concerning the time needed for eradicating rabies. Therefore, we were interested in the correlation between a particular vaccination strategy applied in a given area and the resulting duration of rabies eradication.

To answer this question, a retrospective epidemiological study was conducted including 4 European countries. Based on the specific national OVP, 28 study areas from Belgium (1), Germany (15), Italy (3) and Switzerland (9) were compared comprising the years 1978 to 2000. The study areas where either based on administrative units (Germany, Italy, Belgium) or on natural barriers (Switzerland). Independent of the rabies situation, the observation period was defined as the time interval from the 1st vaccination campaign conducted in the study area up to either the eradication of rabies or up to the year 2000. Rabies was assumed to be eradicated if the disease was not recorded within a two year surveillance period after the last confirmed rabies case in the study area.

To quantify the observed spatial and temporal differences in vaccination strategies we approached the problem by introducing an area index (AI). This index is calculated for each region under investigation. Variables required to calculate the AI are (Fig. 1):

1. the area of the whole region concerned by the ORV programme (vA_{max}),
2. the size of the areas successively vaccinated during campaigns at time t ($vA_{t.}$, vA_{t-1})
3. the size of the overlapping of vaccinated areas successively from campaign to campaign (Φ_l).

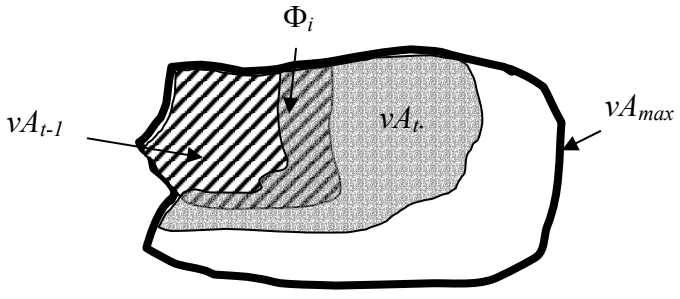

Figure 1: Concept of the area index (AI)

The AI equation is given by

$$\overline{AI} = \frac{1}{n}\sum_{t}^{n} \frac{vA_t}{vA_{\max}} \frac{\Phi_t}{vA_{t-1}}.$$

The AI's are calculated for each campaign and the AI is the mean of all AI's. Then, the AI is a measurement of the proportion of areas repeatedly vaccinated within a region during the observation period. The AI ranges from 0 to 1. A region in which the total area has been vaccinated since the beginning of the programme would be characterized with an AI close or equal to 1. An AI equal to 0 would indicate that no overlapping of successive vaccinated areas has ever been done. An AI close to 0 would indicate that such overlapping was limited and/or that the proportions of the vaccinated areas over the size of the whole region were systematically small.

There was a large variation of the AI (from 0.18 to 1) indicating a large variety of strategy in the studied countries (Belgium: 0.56; Switzerland: 0.20-0.98; Germany: 0.13-1; Italy: 0.60-0.92). There was no significant difference in the mean AI between rabies free and regions still infected at that time. However, when rabies-free regions were divided into two groups by size (above and below 6,000 km^2), in both groups the time from the beginning of ORV to eradication of rabies given with the number of campaigns is negatively correlated with the AI. In regions showing a high AI (0.8 - 1), rabies was eradicated within 3-6 campaigns for small regions (<6,000 km^2), and 12-15 campaigns for large regions (>6,000 km^2). In contrast, regions with a low AI (0.2 – 0.6) required 5-16, and 27-29 vaccination campaigns, respectively (Fig. 2).

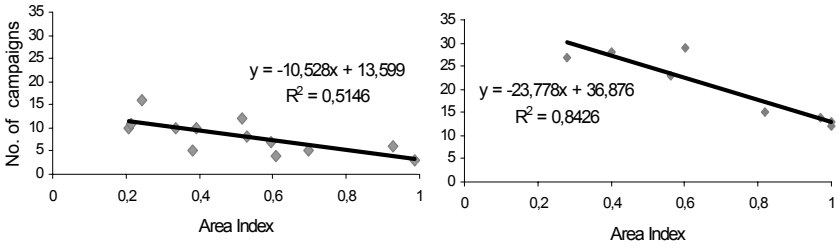

Figure 2: Linear regression of AI vs. the number of vaccination campaigns in rabies-free regions.

The validity of the AI approach is confirmed when considering regions still infected with rabies. It was observed that 3 regions in Germany (all larger than 6.000 km²), which developed a strategy characterised with low AI (lower than 0.6), were still rabies infected after 30 to 34 campaigns. In these regions, the vaccination plan did not follow a systematic approach, contrary to the one that had been followed in the eastern part of the same country where the whole region was covered by vaccination during successive campaigns (high AI). In conclusion, these studies illustrate that an AI can explain the variation encountered in dissimilar OVP strategies, i.e. the differences in times taken to eradicate rabies. In order to improve the efficiency of oral rabies vaccination systems in general it is necessary to guarantee a high AI to eradicate rabies in due course. However, the AI cannot take into account the question of re-infection across the border of neighbouring regions. Logically, any correlation between the AI and the number of campaigns required for rabies elimination can only be observed as long as until such re-infection can be ruled out.

In conclusion, the AI can be used to summarize spatial and temporal characteristics of strategies of OVP. From the results obtained there is evidence that in general, strategies with a high AI are more effective than strategies characterized by a low AI. Therefore, variations in success of OVP can be explained by the use of the AI.

4. Description of Rabies Cases in Europe

4.1 Rabies cases, 2nd quarter 2003

01.04.03 -30.06.03

Location		Domestic animals									Wildlife													bat	Human cases	total
Code	Name	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			
ALB	ALBANIA *									0														0			0
AUT	AUSTRIA	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
BEL	BELGIUM *									0														0			0
BIH	BOSNIA A HERCEGOVINA	2	0	0	0	0	0	0	0	2	14	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	16
BGR	BULGARIA	1	0	0	0	1	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4
BLR	BELARUS	47	29	14	2	0	0	0	0	92	192	24	0	2	7	8	0	0	0	0	0	0	0	233	0	0	325
HRV	CROATIA	2	1	2	2	0	0	0	1	8	95	0	0	0	0	1	0	0	0	0	0	0	1	97	0	0	105
CYP	CYPRUS *									0														0			0
CZH	CZECH REPUBLIC *									0														0			0
DNK	DENMARK *									0														0			0
EST	ESTONIA	5	6	3	0	0	0	0	0	14	91	82	0	0	2	0	1	0	0	0	0	0	0	176	0	0	190
YUG	FED.REP. OF YUGOSL	7	9	1	1	0	0	0	0	18	49	0	0	0	0	0	0	0	0	0	0	0	0	49	0	0	67
FIN	FINLAND **	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
FRA	FRANCE *									0														0			0
DEU	GERMANY	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	6
GRC	GREECE *									0														0			0
HUN	HUNGARY	1	6	1	0	0	1	0	0	9	21	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	30
IRE	IRELAND *									0														0			0
ISL	ICELAND *									0														0			0
ITA	ITALY *									0														0			0
LTU	LITHUANIA	22	26	14	2	1	0	7	0	72	117	81	0	0	4	27	10	2	0	0	0	0	1	242	0	0	314
LUX	LUXEMBOURG *									0														0			0
LVA	LATVIA	29	17	1	0	0	0	0	0	47	121	74	0	0	11	2	9	1	0	0	2	0	0	220	0	0	267
MDA	MOLDOVA	0	0	2	0	1	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	6
MKD	MACEDONIA *																							0			0
NED	NETHERLANDS	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
NOR	NORWAY *									0														0			0
POL	POLAND	3	8	1	0	0	0	0	0	12	42	10	0	0	1	2	0	0	0	1	0	0	0	56	2	0	70
PRT	PORTUGAL *									0														0			0
ROU	ROMANIA	3	1	2	0	0	0	0	0	6	24	0	0	0	1	0	0	0	0	0	0	0	3	28	0	0	34
RUS	RUSSIAN FEDERATION	181	80	110	1	6	6	14	2	400	390	19	0	4	3	1	5	3	0	0	0	0	0	425	0	0	825
ESP	SPAIN	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
SVK	SLOVAK REPUBLIC	6	3	0	0	0	0	0	0	9	60	0	0	0	0	1	0	1	0	0	0	0	0	62	0	0	71
SVN	SLOVENIA *									0														0			0
SWE	SWEDEN *									0														0			0
CHE	SWITZERLAND + LIEC. *									0														0			0
TUR	TURKEY	17	3	18	1	3	0	0	0	42	5	0	0	0	0	1	0	0	2	0	0	0	0	8	0	0	50
UNK	UNITED KINGDOM *									0														0			0
UKR	UKRAINE	98	109	63	3	4	0	0	0	277	195	2	1	2	4	10	6	0	0	1	0	0	1	222	1	0	500
TOTAL		**425**	**298**	**232**	**14**	**16**	**7**	**21**	**3**	**1016**	**1423**	**292**	**1**	**8**	**33**	**53**	**31**	**7**	**2**	**2**	**2**	**0**	**6**	**1860**	**10**	**0**	**2886**
PER CENT		14.7%	10.3%	8.0%	0.5%	0.6%	0.2%	0.7%	0.1%	35.2%	49.3%	10.1%	0.0%	0.3%	1.1%	1.8%	1.1%	0.2%	0.1%	0.1%	0.1%	0.0%	0.2%	64.4%	0.3%	0.0%	100%

* no cases or rabies free

** 1 imported case

4.2 Rabies cases per country, 2nd quarter 2003

01.04.03 -30.06.03

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			
SPAIN																										
Melilla	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**
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	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%
BELARUS																										
Brest	2	4	2	0	0	0	0	0	**8**	12	0	0	0	0	1	0	0	0	0	0	0	0	**13**	0	0	**21**
Vitebsk	18	16	6	0	0	0	0	0	**40**	47	14	0	1	5	2	0	0	0	0	0	0	0	**69**	0	0	**109**
Gomel	9	6	4	0	0	0	0	0	**19**	32	2	0	1	1	3	0	0	0	0	0	0	0	**39**	0	0	**58**
Grodn	12	0	2	1	0	0	0	0	**15**	49	5	0	0	1	2	0	0	0	0	0	0	0	**57**	0	0	**72**
Minsk	6	3	0	0	0	0	0	0	**9**	31	3	0	0	0	0	0	0	0	0	0	0	0	**34**	0	0	**43**
Mogelov	0	0	0	1	0	0	0	0	**1**	21	0	0	0	0	0	0	0	0	0	0	0	0	**21**	0	0	**22**
TOTAL	**47**	**29**	**14**	**2**	**0**	**0**	**0**	**0**	**92**	**192**	**24**	**0**	**2**	**7**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**233**	**0**	**0**	**325**
PER CENT	14.5%	8.9%	4.3%	0.6%	0.0%	0.0%	0.0%	0.0%	28.3%	59.1%	7.4%	0.0%	0.6%	2.2%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	71.7%	0.0%	0.0%	100%
BOSNIA AND HERZEGOVINA																										
Hercegovina-Neretva	0	0	0	0	0	0	0	0	**0**	4	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**4**
Podrinje-Goražde	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Tuzla	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**
Zapadnobosanski	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**
REPUBLIKA SRPSKA																										
Banja Luka	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**
Prijedor	0	0	0	0	0	0	0	0	**0**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**3**
Novi Grad	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**
Visegrad	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**
Pelagicevo	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**
Zvornik	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**
TOTAL	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**14**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**14**	**0**	**0**	**16**
PER CENT	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	87.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	87.5%	0.0%	0.0%	100%
SLOVAKIA																										
Banskobystrický kraj	6	0	0	0	0	0	0	0	**6**	34	0	0	0	0	0	0	0	0	0	0	0	0	**34**	0	0	**40**
Bratislavský kraj	0	0	0	0	0	0	0	0	**0**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**3**
Kosický kraj	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**
Nitriansky kraj	0	2	0	0	0	0	0	0	**2**	10	0	0	0	0	0	0	0	0	0	0	0	0	**10**	0	0	**12**
Trenciansky kraj	0	0	0	0	0	0	0	0	**0**	4	0	0	0	0	1	0	1	0	0	0	0	0	**6**	0	0	**6**
Trnavský kraj	0	1	0	0	0	0	0	0	**1**	7	0	0	0	0	0	0	0	0	0	0	0	0	**7**	0	0	**8**
Zilinský kraj	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**
TOTAL	**6**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**9**	**60**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**62**	**0**	**0**	**71**
PER CENT	8.5%	4.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.7%	84.5%	0.0%	0.0%	0.0%	0.0%	1.4%	0.0%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	87%	0.0%	0.0%	100%

4.2 Rabies cases per country, 2nd quarter 2003 (continued)

01.04.03 -30.06.03

Location	Domestic animals									Wildlife														bat	Human cases	total
Name	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																										
Zagrebacka	0	0	0	0	0	0	0	0	**0**	6	0	0	0	0	0	0	0	0	0	0	0	0	**6**	0	0	**6**
Krapinsko-zagorska	1	0	0	0	0	0	0	0	**1**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**3**
Sisacko-moslavacka	1	0	0	1	0	0	0	0	**2**	15	0	0	0	0	0	0	0	0	0	0	0	0	**15**	0	0	**17**
Karlovacka	0	0	0	0	0	0	0	0	**0**	13	0	0	0	0	1	0	0	0	0	0	0	0	**14**	0	0	**14**
Primorsko- Goranska	0	0	0	0	0	0	0	0	**0**	6	0	0	0	0	0	0	0	0	0	0	0	0	**6**	0	0	**6**
Bjelovarsko-bilogorska	0	0	0	0	0	1	0	0	**1**	4	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**5**
Dubrovacko-neretvanska	0	0	0	0	0	0	0	0	**0**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**3**
Licko-senjska	0	0	0	0	0	0	0	0	**0**	7	0	0	0	0	0	0	0	0	0	0	0	0	**7**	0	0	**7**
Viroviticko-podravska	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**
Požeško-slavonska	0	0	0	1	0	0	0	0	**1**	4	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**5**
Brodsko-posavska	0	0	0	0	0	0	0	0	**0**	8	0	0	0	0	0	0	0	0	0	0	0	0	**8**	0	0	**8**
Zadarska	0	0	0	0	0	0	0	0	**0**	4	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**4**
Osjecko-baranjska	0	0	0	0	0	0	0	0	**0**	5	0	0	0	0	0	0	0	0	0	0	0	1	**6**	0	0	**6**
Šibensko-Kninska	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Vukovarsko-srijemska	0	1	1	0	0	0	0	0	**2**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**4**
Splitsko-dalmatinska	0	0	1	0	0	0	0	0	**1**	6	0	0	0	0	0	0	0	0	0	0	0	0	**6**	0	0	**7**
Grad Zagreb	0	0	0	0	0	0	0	0	**0**	6	0	0	0	0	0	0	0	0	0	0	0	0	**6**	0	0	**6**
Istarska	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**
TOTAL	**2**	**1**	**2**	**2**	**0**	**1**	**0**	**0**	**8**	**95**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**97**	**0**	**0**	**105**
PER CENT	1.9%	1.0%	1.9%	1.9%	0.0%	1.0%	0.0%	0.0%	7.6%	90.5%	0.0%	0.0%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.0%	92%	0.0%	0.0%	100%
FEDERAL REPUBLIC OF GERMANY																										
Schleswig- Holstein	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**
Saxony Anhalt	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**
Hesse	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**4**	**0**	**6**
PER CENT	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33%	66.7%	0.0%	100%
MOLDOVA																										
Balts	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**
Edinets	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**
Ungheni	0	0	0	0	1	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**1**
Soroca	0	0	2	0	0	0	0	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**2**
Tighina	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**
TOTAL	**0**	**0**	**2**	**0**	**1**	**0**	**0**	**0**	**3**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**6**
PER CENT	0.0%	0.0%	33.3%	0.0%	16.7%	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%	100%

4.2 Rabies cases per country, 2nd quarter 2003 (continued)

01.04.03 -30.06.03

Location	Domestic animals									Wildlife														bat	Human cases	total
Name	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			
E S T O N I A																										
Harjumaa	0	1	0	0	0	0	0	0	**1**	11	8	0	0	0	0	0	0	0	0	0	0	0	**19**	0	0	**20**
Ida-Virumaa	1	0	1	0	0	0	0	0	**2**	5	8	0	0	0	0	0	0	0	0	0	0	0	**13**	0	0	**15**
Järvamaa	1	0	1	0	0	0	0	0	**2**	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**5**
Jõgevamaa	1	0	0	0	0	0	0	0	**1**	3	7	0	0	0	0	0	0	0	0	0	0	0	**10**	0	0	**11**
Läänemaa	0	0	0	0	0	0	0	0	**0**	7	4	0	0	0	0	0	0	0	0	0	0	0	**11**	0	0	**11**
Lääne-Virumaa	1	1	0	0	0	0	0	0	**2**	14	10	0	0	1	0	0	0	0	0	0	0	0	**25**	0	0	**27**
Pärnumaa	1	1	0	0	0	0	0	0	**2**	8	12	0	0	0	0	0	0	0	0	0	0	0	**20**	0	0	**22**
Põlvamaa	0	0	0	0	0	0	0	0	**0**	5	2	0	0	0	0	0	0	0	0	0	0	0	**7**	0	0	**7**
Raplamaa	0	1	0	0	0	0	0	0	**1**	7	11	0	0	0	0	0	0	0	0	0	0	0	**18**	0	0	**19**
Tartumaa	0	0	0	0	0	0	0	0	**0**	11	5	0	0	0	0	1	0	0	0	0	0	0	**17**	0	0	**17**
Valgamaa	0	2	0	0	0	0	0	0	**2**	6	3	0	0	0	0	0	0	0	0	0	0	0	**9**	0	0	**11**
Viljandimaa	0	0	1	0	0	0	0	0	**1**	8	5	0	0	1	0	0	0	0	0	0	0	0	**14**	0	0	**15**
Võrumaa	0	0	0	0	0	0	0		**0**	6	4	0	0	0	0	0	0	0	0	0	0	0	**10**	0	0	**10**
TOTAL	**5**	**6**	**3**	**0**	**0**	**0**	**0**	**0**	**14**	**91**	**82**	**0**	**0**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**176**	**0**	**0**	**190**
PER CENT	2.6%	3.2%	1.6%	0.0%	0.0%	0.0%	0.0%	0.0%	7.4%	47.9%	43.2%	0.0%	0.0%	1.1%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	92.6%	0.0%	0.0%	100%
H U N G A R Y																										
Baranya	0	2	0	0	0	0	0	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**2**
Békés	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Csongrád	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**
Hajdú-Bihar	0	1	1	0	0	1	0	0	**3**	8	0	0	0	0	0	0	0	0	0	0	0	0	**8**	0	0	**11**
Jász-Nagykun-Szolnok	1	0	0	0	0	0	0	0	**1**	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	**2**
Pest	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**
Szabolcs-Szatmár-Bereg	0	1	0	0	0	0	0	0	**1**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**4**
Vas	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Veszprém	0	1	0	0	0	0	0	0	**1**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**4**
TOTAL	**1**	**6**	**1**	**0**	**0**	**1**	**0**	**0**	**9**	**21**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**21**	**0**	**0**	**30**
PER CENT	3.3%	20.0%	3.3%	0.0%	0.0%	3.3%	0.0%	0.0%	30.0%	70.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	70%	0.0%	0.0%	100%
F I N L A N D																										
Finland *	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**
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%	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%	100%

* 1 imported case

4.2 Rabies cases per country, 2nd quarter 2003 (continued)

01.04.03 -30.06.03

Location	*Domestic animals*									*Wildlife*														bat	Human cases	total
Name	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			
LATVIA																										
Aizkraukle	0	0	0	0	0	0	0	0	**0**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**3**
Aluksne	2	2	1	0	0	0	0	0	**5**	8	4	0	0	1	0	0	0	0	0	0	0	0	**13**	0	0	**18**
Balvi	2	0	0	0	0	0	0	0	**2**	2	1	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**5**
Bauska	1	0	0	0	0	0	0	0	**1**	3	5	0	0	0	1	1	0	0	0	0	0	0	**10**	0	0	**11**
Cesis	7	4	0	0	0	0	0	0	**11**	10	9	0	0	3	0	0	0	0	0	0	0	0	**22**	0	0	**33**
Daugavpils	1	0	0	0	0	0	0	0	**1**	0	3	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**4**
Dobele	2	0	0	0	0	0	0	0	**2**	2	6	0	0	0	0	0	0	0	0	0	0	0	**8**	0	0	**10**
Gulbene	0	0	0	0	0	0	0	0	**0**	9	2	0	0	2	0	0	0	0	0	0	0	0	**13**	0	0	**13**
Jelgava	3	0	0	0	0	0	0	0	**3**	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**5**
Krāslava	2	1	0	0	0	0	0	0	**3**	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	**4**
Kuldīga	0	0	0	0	0	0	0	0	**0**	3	6	0	0	0	0	0	0	0	0	0	0	0	**9**	0	0	**9**
Liepājas	0	0	0	0	0	0	0	0	**0**	7	7	0	0	2	0	1	0	0	0	0	0	0	**17**	0	0	**17**
Limbaži	0	1	0	0	0	0	0	0	**1**	4	2	0	0	0	0	3	0	0	0	0	0	0	**9**	0	0	**10**
Ludza	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Madona	1	2	0	0	0	0	0	0	**3**	11	4	0	0	1	0	0	0	0	0	0	0	0	**16**	0	0	**19**
Ogre	1	0	0	0	0	0	0	0	**1**	2	3	0	0	1	0	0	0	0	0	0	0	0	**6**	0	0	**7**
Preiļi	2	0	0	0	0	0	0	0	**2**	7	1	0	0	0	0	0	0	0	0	1	0	0	**9**	0	0	**11**
Rēzekne	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	1	0	0	0	0	0	0	**3**	0	0	**3**
Rīga	4	2	0	0	0	0	0	0	**6**	10	5	0	0	1	1	1	0	0	0	0	0	0	**18**	0	0	**24**
Saldus	1	0	0	0	0	0	0	0	**1**	1	5	0	0	0	0	1	0	0	0	0	0	0	**7**	0	0	**8**
Talsi	0	0	0	0	0	0	0	0	**0**	5	2	0	0	0	0	0	0	0	0	0	0	0	**7**	0	0	**7**
Tukums	0	2	0	0	0	0	0	0	**2**	2	2	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**6**
Valka	0	3	0	0	0	0	0	0	**3**	14	4	0	0	0	0	1	0	0	0	1	0	0	**20**	0	0	**23**
Valmiera	0	0	0	0	0	0	0	0	**0**	8	2	0	0	0	0	0	1	0	0	0	0	0	**11**	0	0	**11**
Ventspils	0	0	0	0	0	0	0	0	**0**	4	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**4**
TOTAL	**29**	**17**	**1**	**0**	**0**	**0**	**0**	**0**	**47**	**121**	**74**	**0**	**0**	**11**	**2**	**9**	**1**	**0**	**0**	**2**	**0**	**0**	**220**	**0**	**0**	**267**
PER CENT	10.9%	6.4%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	17.6%	45.3%	27.7%	0.0%	0.0%	4.1%	0.7%	3.4%	0.4%	0.0%	0.0%	0.7%	0.0%	0.0%	82%	0.0%	0.0%	100%
AUSTRIA																										
Oberpullendorf	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**
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%	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%	100%

4.2 Rabies cases per country, 2nd quarter 2003 (continued)

01.04.03 -30.06.03

Location	Domestic animals									Wildlife														bat	Human cases	total
Name	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			
YUGOSLAVIA																										
Beograd	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**
Jagodina	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**
Kraljevo	0	1	0	0	0	0	0	0	**1**	4	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**5**
Niš	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Novi Sad	0	1	0	0	0	0	0	0	**1**	6	0	0	0	0	0	0	0	0	0	0	0	0	**6**	0	0	**7**
Pančevo	0	1	0	0	0	0	0	0	**1**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**3**
Podgorica	5	3	1	1	0	0	0	0	**10**	18	0	0	0	0	0	0	0	0	0	0	0	0	**18**	0	0	**28**
Požavarec	1	0	0	0	0	0	0	0	**1**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**3**
Sombor	0	2	0	0	0	0	0	0	**2**	8	0	0	0	0	0	0	0	0	0	0	0	0	**8**	0	0	**10**
Subotica	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**
Zaječar	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Zrenjanin	1	0	0	0	0	0	0	0	**1**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**3**
TOTAL	**7**	**9**	**1**	**1**	**0**	**0**	**0**	**0**	**18**	**49**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**49**	**0**	**0**	**67**
PER CENT	10.4%	13.4%	1.5%	1.5%	0.0%	0.0%	0.0%	0.0%	26.9%	73.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	73.1%	0.0%	0.0%	100%
TURKEY																										
Aydın	1	2	10	0	1	0	0	0	**14**	4	0	0	0	0	1	0	0	0	0	0	0	0	**5**	0	0	**19**
Balıkesir	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**
Erzurum	2	0	1	0	0	0	0	0	**3**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**3**
Gaziantep	7	0	2	0	0	0	0	0	**9**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**9**
Malatya	0	1	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**1**
Istanbul	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**
Izmir	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**
S. Urfa	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**
Kocaeli	3	0	1	0	0	0	0	0	**4**	0	0	0	0	0	0	0	0	2	0	0	0	0	**2**	0	0	**6**
Manisa	0	0	0	0	2	0	0	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**2**
Muğla	1	0	4	0	0	0	0	0	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**5**
Yalova	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**
TOTAL	**17**	**3**	**18**	**1**	**3**	**0**	**0**	**0**	**42**	**5**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**8**	**0**	**0**	**50**
PER CENT	34.0%	6.0%	36.0%	2.0%	6.0%	0.0%	0.0%	0.0%	84.0%	10.0%	0.0%	0.0%	0.0%	0.0%	2.0%	0.0%	0.0%	4.0%	0.0%	0.0%	0.0%	0.0%	16%	0.0%	0.0%	100%
BULGARIA																										
Lovech	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**
Veliko Turnovo	0	0	0	0	1	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**1**
Montana	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**
Vidin	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**
TOTAL	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**2**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**4**
PER CENT	25.0%	0.0%	0.0%	0.0%	25.0%	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%	100%

4.2 Rabies cases per country, 2nd quarter 2003 (continued)

01.04.03 -30.06.03

Location	Domestic animals									Wildlife															bat	Human cases	total
Name	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	0	1	0	0	0	0	0	**2**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**4**
Arges	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**
Bistrita Nasaud	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**
Braila	1	0	1	0	0	0	0	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**2**
Calarasi	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**
Cluj	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**
Covasna	0	1	0	0	0	0	0	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**1**
Gorj	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Hunedoara	0	0	0	0	0	0	0	0	**0**	6	0	0	0	1	0	0	0	0	0	0	0	2	**9**	0	0	**9**
Mures	0	0	0	0	0	0	0	0	**0**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**3**
Salaj	0	0	0	0	0	0	0	0	**0**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**3**
Satu Mare	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Sibiu	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**
Suceava	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Timis	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0	1	**1**	0	0	**1**
TOTAL	**3**	**1**	**2**	**0**	**0**	**0**	**0**	**0**	**6**	**24**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**28**	**0**	**0**	**34**
PER CENT	8.8%	2.9%	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	17.6%	70.6%	0.0%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.8%	82%	0.0%	0.0%	100%
POLAND																											
Dolnoslaskie	0	1	0	0	0	0	0	0	**1**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**4**
Kujawsko-Pomorskie	0	0	0	0	0	0	0	0	**0**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**3**
Lubelskie	1	3	0	0	0	0	0	0	**4**	4	0	0	0	0	1	0	0	0	0	0	0	0	**5**	0	0	**9**
Malopolskie	0	0	0	0	0	0	0	0	**0**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Podkarpackie	0	1	0	0	0	0	0	0	**1**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**3**
Podlaskie	0	0	0	0	0	0	0	0	**0**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**3**
Pomorskie	0	0	0	0	0	0	0	0	**0**	1	1	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Slaskie	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	1	0	0	0	0	0	0	0	**1**	0	0	**1**
Swietokrzyskie	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**
Warminsko-Mazurskie	1	1	1	0	0	0	0	0	**3**	7	8	0	0	0	0	0	0	0	1	0	0	0	**16**	0	0	**19**
Wielkopolskie	1	2	0	0	0	0	0	0	**3**	16	1	0	0	1	0	0	0	0	0	0	0	0	**18**	1	0	**22**
Zachodniopomorskie	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**
TOTAL	**3**	**8**	**1**	**0**	**0**	**0**	**0**	**0**	**12**	**42**	**10**	**0**	**0**	**1**	**2**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**56**	**2**	**0**	**70**
PER CENT	4.3%	11.4%	1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	17.1%	60.0%	14.3%	0.0%	0.0%	1.4%	2.9%	0.0%	0.0%	0.0%	1.4%	0.0%	0.0%	0.0%	80%	2.9%	0.0%	100%
NETHERLANDS																											
Gelderland	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**
Utrecht	0	0	0	0	0	0	0	0	**0**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	2	0	**2**
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%	100%	0.0%	100%

4.2 Rabies cases per country, 2nd quarter 2003 (continued)

01.04.03 -30.06.03

Location	Domestic animals									Wildlife														bat	Human cases	total
Name	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			
LITHUANIA																										
Alytus	2	1	1	0	0	0	5	0	**9**	13	15	0	0	1	4	4	0	0	0	0	0	0	**37**	0	0	**46**
Kaunas	4	6	3	0	0	0	0	0	**13**	3	6	0	0	0	2	0	0	0	0	0	0	0	**11**	0	0	**24**
Klaipeda	3	1	1	0	0	0	1	0	**6**	22	9	0	0	2	2	0	1	0	0	0	0	0	**36**	0	0	**42**
Marijampole	1	0	0	0	0	0	0	0	**1**	11	10	0	0	0	1	1	0	0	0	0	0	0	**23**	0	0	**24**
Panvežys	4	3	1	1	0	0	0	0	**9**	11	6	0	0	0	5	2	1	0	0	0	0	0	**25**	0	0	**34**
Šiauliai	3	7	3	0	1	0	0	0	**14**	12	9	0	0	0	6	0	0	0	0	0	0	0	**27**	0	0	**41**
Taurage	1	7	2	1	0	0	0	0	**11**	8	4	0	0	0	2	0	0	0	0	0	0	0	**14**	0	0	**25**
Telšiai	1	1	2	0	0	0	0	0	**4**	3	1	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**8**
Utena	0	0	0	0	0	0	0	0	**0**	18	14	0	0	1	5	1	0	0	0	0	0	1	**40**	0	0	**40**
Vilnius	3	0	1	0	0	0	1	0	**5**	16	7	0	0	0	0	2	0	0	0	0	0	0	**25**	0	0	**30**
TOTAL	**22**	**26**	**14**	**2**	**1**	**0**	**7**	**0**	**72**	**117**	**81**	**0**	**0**	**4**	**27**	**10**	**2**	**0**	**0**	**0**	**0**	**1**	**242**	**0**	**0**	**314**
PER CENT	7.0%	8.3%	4.5%	0.6%	0.3%	0.0%	2.2%	0.0%	22.9%	37.3%	25.8%	0.0%	0.0%	1.3%	8.6%	3.2%	0.6%	0.0%	0.0%	0.0%	0.0%	0.3%	77%	0.0%	0.0%	100%
UKRAINE																										
Cherkasskaja o.	4	6	2	0	0	0	0	0	**12**	9	1	0	0	0	0	1	0	0	0	0	0	0	**11**	0	0	**23**
Chernigovskaja o.	18	17	14	3	0	0	0	0	**52**	37	0	0	0	0	2	1	0	0	1	0	0	0	**41**	0	0	**93**
Chernovitskaja o.	0	0	0	0	0	0	0	0	**0**	1	0	0	0	1	0	0	0	0	0	0	0	0	**2**	0	0	**2**
Dnepropetrovskaja o.	1	2	1	0	0	0	0	0	**4**	2	0	0	0	0	0	0	0	0	0	0	0	0	**2**	0	0	**6**
Donetskskaja o.	3	1	0	0	0	0	0	0	**4**	0	0	0	0	0	0	1	0	0	0	0	0	0	**1**	0	0	**5**
Ivano-Frankovskaja	0	1	1	0	0	0	0	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**2**
Kharkovskaja o.	9	8	2	0	0	0	0	0	**19**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**22**
Khersonskaja o.	2	2	3	0	1	0	0	0	**8**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**11**
Khmelnitskaja o.	12	6	4	0	0	0	0	0	**22**	25	0	0	0	1	1	0	0	0	0	0	0	0	**27**	0	0	**49**
Kievskaja o.	3	4	0	0	0	0	0	0	**7**	8	1	0	0	0	1	0	0	0	0	0	0	0	**10**	0	0	**17**
Kirovogradskaja o.	1	7	1	0	2	0	0	0	**11**	7	0	0	0	1	0	0	0	0	0	0	0	0	**8**	0	0	**19**
Krym	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**
Luganskaja o.	9	5	2	0	0	0	0	0	**16**	7	0	0	1	0	1	1	0	0	0	0	0	0	**10**	0	0	**26**
Lvovskaja o.	0	0	0	0	0	0	0	0	**0**	5	0	0	0	0	0	0	0	0	0	0	0	0	**5**	0	0	**5**
Nikolayevskaja o.	1	2	0	0	0	0	0	0	**3**	9	0	0	0	0	0	1	0	0	0	0	0	0	**10**	0	0	**13**
Odesskaja o.	5	5	6	0	0	0	0	0	**16**	5	0	0	0	0	1	0	0	0	0	0	0	1	**7**	0	0	**23**
Poltavskaja o.	19	11	12	0	1	0	0	0	**43**	11	0	0	0	0	0	0	0	0	0	0	0	0	**11**	1	0	**55**
Rovenskaja o.	0	1	0	0	0	0	0	0	**1**	7	0	0	0	0	0	0	0	0	0	0	0	0	**7**	0	0	**8**
Sumskaja o.	6	18	9	0	0	0	0	0	**33**	6	0	0	0	0	0	1	0	0	0	0	0	0	**7**	0	0	**40**
Vinnitskaja o.	0	8	0	0	0	0	0	0	**8**	1	0	0	0	0	2	0	0	0	0	0	0	0	**3**	0	0	**11**
Volynskaja o.	0	0	0	0	0	0	0	0	**0**	3	0	1	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**4**
Zakarpatskaja o.	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**
Zaporozhskaja o.	0	1	3	0	0	0	0	0	**4**	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	**5**
Zhitomirskaja o.	4	4	2	0	0	0	0	0	**10**	42	0	0	1	1	2	0	0	0	0	0	0	0	**46**	0	0	**56**
TOTAL	**98**	**109**	**63**	**3**	**4**	**0**	**0**	**0**	**277**	**195**	**2**	**1**	**2**	**4**	**10**	**6**	**0**	**0**	**1**	**0**	**0**	**1**	**222**	**1**	**0**	**500**
PER CENT	19.6%	21.8%	12.6%	0.6%	0.8%	0.0%	0.0%	0.0%	55.4%	39.0%	0.4%	0.2%	0.4%	0.8%	2.0%	1.2%	0.0%	0.0%	0.2%	0.0%	0.0%	0.2%	44%	0.2%	0.0%	100%

4.2 Rabies cases per country, 2nd quarter 2003 (continued)

01.04.03 -30.06.03

Location	Domestic animals									Wildlife														bat	Human cases	total
Name	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			
R U S S I A																										
Astrahanskja obl.	1	7	7	0	2	1	0	2	**20**	0	0	0	1	0	0	1	1	0	0	0	0	0	**3**	0	0	**23**
Belgorodskja obl.	6	2	2	0	0	1	1	0	**12**	10	0	0	0	0	0	0	0	0	0	0	0	0	**10**	0	0	**22**
Brjanskaja obl.	9	1	0	0	0	0	1	0	**11**	29	1	0	0	0	0	0	0	0	0	0	0	0	**30**	0	0	**41**
Cuvasskaja resp.	0	0	1	0	0	0	1	0	**2**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**5**
Dagestan resp.	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**
Kabardino-Balkarskaja resp.	0	0	1	0	0	0	1	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**2**
Kaliningradskaja obl.	7	4	3	0	0	0	0	0	**14**	0	0	0	0	0	0	0	1	0	0	0	0	0	**1**	0	0	**15**
Kalmykija resp.	0	0	2	0	0	0	0	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**2**
Kaluzskaja obl.	7	4	1	0	0	0	0	0	**12**	31	3	0	1	0	0	0	0	0	0	0	0	0	**35**	0	0	**47**
Krasnodarskij kr.	2	3	0	0	0	0	0	0	**5**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**5**
Kurskaja obl.	10	12	8	0	0	0	8	0	**38**	13	0	0	0	0	0	1	0	0	0	0	0	0	**14**	0	0	**52**
Lipeckaja obl.	5	3	3	0	0	0	0	0	**11**	16	0	0	0	1	0	1	0	0	0	0	0	0	**18**	0	0	**29**
Marij El resp.	1	0	0	0	0	0	0	0	**1**	3	0	0	0	0	0	0	0	0	0	0	0	0	**3**	0	0	**4**
Mordovija resp.	0	1	0	0	0	0	0	0	**1**	4	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**5**
Moskovskaja obl.	1	2	0	0	0	0	0	0	**3**	23	5	0	0	0	0	0	0	0	0	0	0	0	**28**	0	0	**31**
Nizegorodskaja obl.	5	0	3	0	0	0	0	0	**8**	57	0	0	0	0	0	0	0	0	0	0	0	0	**57**	0	0	**65**
Orlovskaja obl.	5	4	8	0	0	0	0	0	**17**	4	0	0	0	0	0	1	0	0	0	0	0	0	**5**	0	0	**22**
Penzenskaja obl.	14	2	3	0	0	0	0	0	**19**	70	0	0	0	0	0	0	0	0	0	0	0	0	**70**	0	0	**89**
Pskovskaja obl.	6	4	0	0	0	0	1	0	**11**	7	1	0	1	0	0	0	0	0	0	0	0	0	**9**	0	0	**20**
Rjazanskaja obl.	9	2	6	0	0	0	0	0	**17**	15	0	0	0	1	0	1	0	0	0	0	0	0	**17**	0	0	**34**
Rostovskaja obl.	14	6	5	0	1	0	0	0	**26**	4	0	0	1	0	0	0	0	0	0	0	0	0	**5**	0	0	**31**
Saratovskaja obl.	20	3	16	1	1	1	0	0	**42**	20	0	0	0	1	1	0	1	0	0	0	0	0	**23**	0	0	**65**
Severn. Osetija-Alanija resp.	10	1	9	0	0	3	0	0	**23**	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	0	0	**23**
Smolenskaja obl.	2	0	0	0	0	0	0	0	**2**	17	4	0	0	0	0	0	0	0	0	0	0	0	**21**	0	0	**23**
Stavropol'skij kr.	0	2	1	0	0	0	0	0	**3**	1	0	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	**4**
Tambovskaja obl.	11	1	2	0	0	0	0	0	**14**	19	0	0	0	0	0	0	0	0	0	0	0	0	**19**	0	0	**33**
Tul'skaja obl.	5	2	2	0	0	0	0	0	**9**	7	0	0	0	0	0	0	0	0	0	0	0	0	**7**	0	0	**16**
Tverskaja obl.	3	1	1	0	0	0	0	0	**5**	14	5	0	0	0	0	0	0	0	0	0	0	0	**19**	0	0	**24**
Uljanovskaja obl.	1	1	5	0	0	0	0	0	**7**	4	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**11**
Vladimirskja obl.	3	1	0	0	0	0	0	0	**4**	6	0	0	0	0	0	0	0	0	0	0	0	0	**6**	0	0	**10**
Volgogradskaja obl.	4	0	13	0	2	0	0	0	**19**	4	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0	0	**23**
Voronezskaja obl.	19	11	8	0	0	0	1	0	**39**	9	0	0	0	0	0	0	0	0	0	0	0	0	**9**	0	0	**48**
TOTAL	**181**	**80**	**110**	**1**	**6**	**6**	**14**	**2**	**400**	**390**	**19**	**0**	**4**	**3**	**1**	**5**	**3**	**0**	**0**	**0**	**0**	**0**	**425**	**0**	**0**	**825**
PER CENT	21.9%	9.7%	13.3%	0.1%	0.7%	0.7%	1.7%	0.2%	48.5%	47.3%	2.3%	0.0%	0.5%	0.4%	0.1%	0.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	52%	0.0%	0.0%	100%

4.3 TREND TABLES

4.3.1 Comparison of the reporting quarter (II /2003) with the previous quarter (I /2003)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	II 2003 (no.)	I 2003 (no.)	Difference	II 2003 (no.)	I 2003 (no.)	Difference	II 2003 (no.)	I 2003 (no.)	Difference	II 2003 (no.)	I 2003 (no.)	Difference	II 2003 (no.)	I 2003 (no.)	Difference
ALBANIA	**0**	**2**	**-2**	0	2	-2	0	0	0	0	0	0	0	0	0
AUSTRIA	**1**	**0**	**1**	0	0	0	1	0	1	0	0	0	0	0	0
BELARUS	**325**	**380**	**-55**	233	290	-57	92	90	2	0	0	0	0	0	0
BELGIUM	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
BOSNIA /HERCEGOVINA	**16**	**31**	**-15**	14	26	-12	2	5	-3	0	0	0	0	0	0
BULGARIA	**4**	**6**	**-2**	2	5	-3	2	1	1	0	0	0	0	0	0
CROATIA	**105**	**254**	**-149**	97	245	-148	8	9	-1	0	0	0	0	0	0
CYPRUS	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
CZECH REPBUBLIC	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
DENMARK	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
ESTONIA	**190**	**238**	**-48**	176	213	-37	14	25	-11	0	0	0	0	0	0
FED.REP. OF YUGOSL	**67**	**77**	**-10**	49	64	-15	18	13	5	0	0	0	0	0	0
FINLAND	**1**	**0**	**1**	0	0	0	1	0	1	0	0	0	0	0	0
FRANCE	**0**	**1**	**-1**	0	0	0	0	0	0	0	1	-1	0	0	0
GERMANY	**6**	**8**	**-2**	2	8	-6	0	0	0	4	0	4	0	0	0
GREECE	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
HUNGARY	**30**	**64**	**-34**	21	47	-26	9	17	-8	0	0	0	0	0	0
ICELAND	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
IRELAND	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
ITALY	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
LATVIA	**267**	**221**	**46**	220	198	22	47	23	24	0	0	0	0	0	0
LITHUANIA	**314**	**235**	**79**	242	190	52	72	45	27	0	0	0	0	0	0
LUXEMBOURG	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
MACEDONIA **	**0**	**		0			0			0			0		
MOLDOVA	**6**	**9**	**-3**	3	5	-2	3	4	-1	0	0	0	0	0	0
NETHERLANDS	**3**	**1**	**2**	0	0	0	0	0	0	3	1	2	0	0	0
NORWAY	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
POLAND	**70**	**167**	**-97**	56	149	-93	12	18	-6	2	0	2	0	0	0
PORTUGAL	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
ROMANIA	**34**	**13**	**21**	28	9	19	6	4	2	0	0	0	0	0	0
RUSSIAN FEDERATION	**825**	**1130**	**-305**	425	622	-197	400	508	-108	0	0	0	0	0	0
SLOVAK REPUBLIC	**71**	**130**	**-59**	62	110	-48	9	20	-11	0	0	0	0	0	0
SLOVENIA	**0**	**2**	**-2**	0	2	-2	0	0	0	0	0	0	0	0	0
SPAIN	**1**	**0**	**1**	0	0	0	1	0	1	0	0	0	0	0	0
SWEDEN	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
SWITZERLAND/LIECHTEN.	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
TURKEY	**50**	**40**	**10**	8	6	2	42	34	8	0	0	0	0	0	0
UKRAINE	**500**	**621**	**-121**	222	322	-100	277	297	-20	1	0	1	0	2	-2
UNITED KINGDOM	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	**2886**	**3630**	**-744**	**1860**	**2513**	**-653**	**1016**	**1113**	**-97**	**10**	**2**	**8**	**0**	**2**	**-2**

Wildlife: excluding bats
II /2003 (no.), I /2003 (no.): number of cases
Difference: no. of cases in II /2003 minus cases in I /2003

**** no data**

4.3.2 Comparison of the reporting quarter (II /2003) with the same quarter of the previous year (II /2002)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	II 2003 (no.)	II 2002 (no.)	Difference	II 2003 (no.)	II 2002 (no.)	Difference	II 2003 (no.)	II 2002 (no.)	Difference	II 2003 (no.)	II 2002 (no.)	Difference	II 2003 (no.)	II 2002 (no.)	Difference
ALBANIA	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
AUSTRIA	**1**	**4**	**-3**	0	4	-4	1	0	1	0	0	0	0	0	0
BELARUS	**325**	**146**	**179**	233	102	131	92	44	48	0	0	0	0	0	0
BELGIUM	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
BOSNIA /HERCEGOVINA *	**16**	**2***	**14**	14	1	13	2	1	1	0	0	0	0	0	0
BULGARIA	**4**	**3**	**1**	2	3	-1	2	0	2	0	0	0	0	0	0
CROATIA	**105**	**70**	**35**	97	61	36	8	9	-1	0	0	0	0	0	0
CYPRUS	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
CZECH REPUBLIC	**0**	**2**	**-2**	0	2	-2	0	0	0	0	0	0	0	0	0
DENMARK	**0**	**2**	**-2**	0	0	0	0	1	-1	0	1	-1	0	0	0
ESTONIA	**190**	**79**	**111**	176	66	110	14	13	1	0	0	0	0	0	0
FED.REP. OF YUGOSL	**67**	**24**	**43**	49	19	30	18	5	13	0	0	0	0	0	0
FINLAND	**1**	**0**	**1**	0	0	0	1	0	1	0	0	0	0	0	0
FRANCE	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
GERMANY	**6**	**6**	**0**	2	4	-2	0	0	0	4	2	2	0	0	0
GREECE	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
HUNGARY	**30**	**29**	**1**	21	23	-2	9	6	3	0	0	0	0	0	0
ICELAND	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
IRELAND	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
ITALY	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
LATVIA	**267**	**81**	**186**	220	73	147	47	8	39	0	0	0	0	0	0
LITHUANIA	**314**	**163**	**151**	242	123	119	72	40	32	0	0	0	0	0	0
LUXEMBOURG	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
MACEDONIA **	**0**	**		0			0			0			0		
MOLDOVA	**6**	**4**	**2**	3	3	0	3	1	2	0	0	0	0	0	0
NETHERLANDS	**3**	**0**	**3**	0	0	0	0	0	0	3	0	3	0	0	0
NORWAY	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
POLAND	**70**	**248**	**-178**	56	226	-170	12	22	-10	2	0	2	0	0	0
PORTUGAL	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
ROMANIA	**34**	**19**	**15**	28	10	18	6	9	-3	0	0	0	0	0	0
RUSSIAN FEDERATION	**825**	**623**	**202**	425	175	250	400	446	-46	0	1	-1	0	1	-1
SLOVAK REPUBLIC	**71**	**13**	**58**	62	10	52	9	3	6	0	0	0	0	0	0
SLOVENIA	**0**	**2**	**-2**	0	2	-2	0	0	0	0	0	0	0	0	0
SPAIN	**1**	**2**	**-1**	0	0	0	1	1	0	0	1	-1	0	0	0
SWEDEN	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
SWITZERLAND + LIEC.	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
TURKEY	**50**	**87**	**-37**	8	12	-4	42	75	-33	0	0	0	0	0	0
UKRAINE	**500**	**235**	**265**	222	72	150	277	163	114	1	0	1	0	0	0
UNITED KINGDOM	**0**	**0**	**0**	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	**2886**	**1844**	**1042**	**1860**	**991**	**869**	**1016**	**847**	**169**	**10**	**5**	**5**	**0**	**1**	**-1**

Wildlife: excluding bats
II 2003 (no.)/ II 2002 (no.): number of cases
Difference: no. of cases in II /2003 minus cases in II /2002

*** not complete**
**** no data**

5. LIST OF CONTRIBUTORS

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

Prof. Dr. Kristaq Berxholi, Director
Institute of Veterinary Research „Bilal Golemi“
Tirana /Albania
Tel. +355 4 372 912
Fax +355 4 372 912
e-mail instvet@icc.al.eu.org

AUT Austria
Prof. Dr. Peter Weber, CVO
Bundesministerium für soziale Sicherheit
und Generationen
Abt. IX/A/4
Radetzkystraße 2
A-1031 Wien
Tel. +43-1-7 11 00
Fax +43-1-7 10 41 51

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. L. Lengele, Conseiller Général
Dr. Dechamps
Ministère des Classes Moyennes et de l'Agriculture
Administration de la Santé animale et de la
Qualité des produits animaux (DG5)
Services vétérinaires
WTC III - Boulevard Simon Bolivar 30
5ème étage
B-1000 Bruxelles/Belgique
Tel. +32-2-208 36 48
Fax +32-2-208 36 12

Responsible expert:
Dr. F. Costy
Institut Pasteur de Bruxelles
Rue Engeland, 642
B-1180 Bruxelles
Tel. +32-2-373 31 11
Fax +32-2-373 31 74

BIH Bosnia and Herzegovina
Dr. Ramiz Velic
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

Republika Srpska:
Dr. Sc. Drago N. Nedic
Ministry Agriculture, Forestry and
Water Management
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
Internet www.vetservice.org

BUL Bulgaria
Dr. L. Lavchev
Ministry of Agriculture

Responsible expert:
Dr. Rumen Valtchovski
National Veterinary Research Institute
Tel. +359 9523903
email rvaltchovski@abv.bg

HVR Croatia
Dr. Mate Brstilo
Dr. Danijela Lamer
Ministry of Agriculture, Forestry and Water
Management
State Veterinary Service
Tel.: +385 1 6106662 and 6106701
email dlamer@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

CZH Czech Republic
MVDr. Josef Vitásek
State Veterinary Administration CR
Tešnov 17
CZ-117 05 Prague 1 /Czech Republic
Tel. +420-2-2181 2768
Fax +420-2-2231 2923
e-mail j.vitasek@svs.aquasoft.cz

Responsible expert:
MVDr Oldrich Matouch, Csc
National Reference Laboratory for Rabies
State Veterinary Institute
U Sila 1139
CZ-46311 Liberec 30 /Czech Republic
Tel. +420-48-2751 578
Fax +420-48-2751 569
e-mail matouch@volny.cz
Internet http://svs.aquasoft.cz

DNK Denmark
Dr. Preben Willeberg, CVO
Dr. Tina Mørk
Ministeriet for Fødevarer, Landbrug og Fiskeri
Danish Veterinary and Food Administration
Tel. +45 33956000
e-mail Tina Mørk <tm@FDIR.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

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

FIN Finland
Dr. Matti Aho, CVO
Dr. Tiia Tuupanen
Ministry of Agriculture and Forestry
Department of Food and Health
PO BOX 30
FIN-00023 Government
Finland
Tel. + 358-9-16001
Fax +358-9-160 54777
e-mail cvo-finland@mmm.fi
tiia.tuupanen@mmm.fi
Internet www.mmm.fi

FRA France
Dr. Florence Cliquet
Agence Francaise de Securite Sanitaire des Aliments (afssa) - Site de Nancy
Domaine de Pixérécourt
Boite Postale 9
F-54220 Malzéville /Republique Francaise
Tel. +33-3-83.29.89.50
Fax +33-3-83.29.89.59
e-mail f.cliquet@nancy.afssa.fr
Internet www.afssa.fr

DEU Germany
Dr. Karin Schwabenbauer, CVO
Fed. Ministry of Consumer Protection, Food and Agriculture
PF 14 02 70, D-53103 Bonn, Germany
Tel. +49 228 529 41 57
Fax +49 228 529 35 53
e-mail: poststelle@bmvel.bund.de

Responsible experts:
Dr. Matthias Kramer
Dr. Thomas Müller
Dr. Carsten J. Pötzsch
Fed. Research Centre for Virus Diseases of Animals
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@wus.bfav.de
Internet www.bfav.de

GRC Greece
Dr. B. Stylas
Ministry of Agriculture

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/Irland
Tel. +353-1-607 2981
Fax +353-1-661 2440

Responsible expert:
Dr. Patrick Corkery MVB, Ph.D.
Veterinary Liaison Officer
Floor 3C, Department of Agriculture,
Food and Rural Development,
Kildare Street
Dublin 2/Ireland
Tel. +353-1-607 2981
Fax +353-1-607 2989
e-mail Paul.Corkery@daff-irlgov.ie
Internet www.irlgov.ie/daff

ITA Italy
Dr. Franco Mutinelli
Istituto Zooprofilattico
Sperimentale delle Venezie
Via Romea, 14/A
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. V. Veldre
Dr. E. Jegers
Food and Veterinary Service
Animal Health Division
Republikas laukums 2
Riga, LV-1010, Latvija
Tel. +371 709 52 30
Fax +371 732 27 27
e-mail vvd@vvd.vita.gov.lv

LTU Lithuania
Dr. K. Lukauskas
Dr. A. Dranseika
State Veterinary Service

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
Lazar Pop Trajkov 5-7
1000 Skopje/Macedonia
Tel +389 2 3115125
Fax +389 2 3114619
e-mail hristovskim@hotmail.com

MDA Moldova
Dr. V. Bahau, Dr. A. Ganea
Dr. V. Kilary
Ministry of Agriculture

NED Netherlands
Dr. F.H. Pluimers
Ministry of Agriculture, Nature Environment and Fisheries
Bezuidenhoutseweg 73 - P.O. Box 20401
NL-2500 EK's-Gravenhage /Netherlands

Dr. Monique Aalten
Inspectorate for Health Protection, Commodities and
Veterinary Public Health, Regional Inspectorate East
De Stoven 22
NL-7206 AX Zutphen /Netherlands
Tel. +31-575-58 8 100
Fax +31-575-588 8 200
e-mail Monique.Aalten@kvw.nl

Responsible expert:
Dr. R.A.A. van Oosterom
Inspectorate for Health Protection
Commodities and Veterinary Public Health
P.O. Box 16108
NL-2500 BC The Hague /Netherlands

NOR Norway
Dr. Eivind Liven
Norwegian Animal Health Authority, Central Unit
Ullevaalsvn. 68, P.O. Box 8147 Dep., N-0033 Oslo
Tel. +47 23 21 65 00
Fax +47 23 21 65 01

POL Poland
Dr. Piotr Kolodziej, CVO
Chief Veterinary Officer of the Polish Veterinary Inspection
30, Wspólna Street
00-930 Warsaw /Poland
Tel. +48-22-6231408 or 6288511
Fax +48-22-6231408 or 6288511
e-mail wet@minrol.gov.pl

Responsible experts:
Dr. Jan F. Zmudzinski
State Veterinary Institute, National Rabies Reference Centre, Department of Virology
Al. Partyzantów 57
24-100 Pulawy, Poland
Tel. +48-81-88630

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

ROU Romania
Dr. Viorel Andronie, General Director
Ministry of Agriculture, Food and Forestry
National Sanitary Veterinary Agency
Bd. Carol I, nr. 24, sector 3
Bucuresti, cod 70.033 /Romania
Tel. +40-21-315.78.75
Fax +40-21-312.49.67
e-mail romeo.manea@maa.ro
ansv.disb@maa.ro

Responsible experts:
Dr. Romeo Manea - Expert -
National Sanitary Veterinary Agency

Dr. Cristina Tudoran
Chief of Section Pathology of Wildlife Animals and Pets
Institute for Diagnosis and Animal Health

RUS Russian Federation (European part)
Prof. V.A. Vedernikov
WHO Coll. Centre on Prev. and Control of Zoonosis
The Kovalenko All-Union
Inst. of Exper. Veterinary Medicine, Moscow
Dr. V.V. Seliverstov
Veterinary Dept., Moscow
Prof. B.L. Cherkasskiy
WHO Collaborating Centre on Zoonosis, Moscow
Central Research Institute of Epidemiology,
Ministry of Public Health, Moscow

SVK Slovak Republic
Prof. Dusan Magic, CVO
Roman Matejcik, 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@svssr.sk

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

SVN Slovenia
Dr. Zoran Kovac, CVO
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 +386-1-436 32 14
e-mail zoran.kovac.@gov.si
Internet www.sigov.si/vurs
Responsible expert:
Dr. Peter Hostnik
Veterinary faculty, Virological laboratory
Gerbiceva 60
1000 Ljubljana /Slovenia
Tel. +386-1-477 91 00
Fax +386-1-283 22 43
e-mail HostniPe@mail.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

Epidemiología:
Sra. D^{a} 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 lsanchez@isciii.es

Dr. Ignacio Sanchez Esteban
Subdirector General de Sanidad Veterinaria
MAPA
Ministerio de Agricultura, Pesca y Alimentacion
Madrid /Spain
Tel. +34-91-347 82 95
Fax +34-91-347 82 99
e-mail isanchez@mapya.es
Internet 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

Dña. Teresa Rodríguez-Trenchs
Tel. +34-91-347 83 46
Fax +34-91-347 82 99
e-mail 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

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

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
e-mail breitenmoser@ivv.unibe.ch
Internet www.cx.unibe.ch/ivv

TUR Turkey
Dr. Musa Arik
Head of Animal Health Department
Ministry of Agriculture and Rural Affairs
General Directorate of Protection and Control
Esat cad. No. 3
06100 Bakanliklar, Ankara /Turkey
Tel. +90-312-41 82 436
Fax +90-312-41 78 209
e-mail musaa@kkgm.gov.tr

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. Verbytskiy
Ministry of Agrarian Policy
State Department of Veterinary Medicine
Khreshchatik 24
01001 Kiev /Ukraine
Tel. +7-044-229 12 70
Fax +7-044-229 85 45
e-mail 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

UNK United Kingdom
Dr. J.M. Scudamore, CVO
Dr. F. Landeg
Dr. Anna Guitton
Department for Environment, Food and Rural Affairs
Room 205a, 1A Page Street
London, SW1P 4PQ
Tel. +44-20-7904 6069
Fax +44-20-7904 6913
e-mail fred.Landeg@defra.gsi.gov.uk

Responsible expert:
Dr. Anthony R. Fooks
Rabies Research and Diagnostic Group, WHO Collaborating Centre, Department of Virology, Veterinary Laboratories Agency (Weybridge), New Haw, Addlestone, Surrey, KT15 3NB, UK
Tel: +44 1932-357840
Fax +44 1932-357239
e-mail: t.fooks@vla.defra.gsi.gov.uk

YUG Yugoslavia
Dr.Zivko Davidovic
Fed. Committee Agriculture

Jelena Desnica, MD (Director)
Nenad Muskinja, MD (Epidemiology, Rabies prevention)
Uros Ungurovic, VMD (Rabies diagnostics)
Pasteur Institute, Novi Sad
Hajduk Veljkova 1 / P.O. Box 208
21000 Novi Sad /Yugoslavia
Tel. +381-21-611-003, 420-528
Fax +381-21-611-003, 420-528
e-mail pasteuri@eunet.yu

Please inform the editor of changes of contact details!

RABIES CASES EUROPE
2 nd QUARTER 2003
2886 CASES REPORTED

10 BAT RABIES CASES INCLUDED

NOR
Svalbard (0)
Greenland
(DNK)
ISL
(rabies free)

NOR
(rabies free)
SWE
(rabies free)
FIN
(rabies free)
(1 imported case)
RUS
(825)
(190)
EST
LVA
(267)
(314)
DNK
(0)
Baltic Sea
RUS
LTU
BLR
KAZ
IRE
(rabies free)
UNK
(0)
(3)
NED
BEL
(rabies free)
LUX
(rabies free)
DEU
(2)
(4)
POL
(68)
(2)
(925)
(409)
(1)
UKR
Caspian
Sea
Sea
of Azov
CZH
(0)
SVK
(71)
MDA
(6)
FRA
(0)
AUT
(1)
HUN
(30)
GEO
AZE
ARM
CHE
(0)
ROU
(34)
Black Sea
(0)
(105)
SVN
HRV
ITA
(rabies free)
YUG
(16)
BIH
(67)
BUL
(4)
IRN
TUR
(50)
PRT
(rabies free)
ESP
NORTH AFRICA (1)
MKD
(0)
(0)
ALB
GRC
(rabies free)
IRQ
SYR
150 km
Mediterranean Sea
CYP
(rabies free)
ESP
MAR
DZA
TUN
LBN
(rabies free) = NO INDIGENOUS CASE REPORTED FOR AT LEAST TWO YEARS

Administrative boundaries
based on MACON
RegioGraph 6.0