

# **RABIES BULLETIN EUROPE**

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**Map of rabies cases in Europe, 3<sup>rd</sup> quarter 2009**

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# 1. Editorial

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During the reporting period (3<sup>rd</sup> quarter 2009) less than 1300 rabies cases were reported from European countries. Interestingly, for the first time rabies was confirmed in a bat in Finland. This puts the historical human rabies case of EBLV-2 origin into new perspectives. We hope to provide additional information on this once it is available. Also, this quarter is the first in which no cases of classical rabies were detected and reported in Poland – a result of its long-term commitment to rabies control by large scale oral rabies vaccination of wildlife (foxes). On the other hand, fox rabies as re-emerged recently in the Northeast of Italy seems to persist in this area with additional cases reported. Counteractions of the Italian authorities will hopefully show effects in the near future.

The first miscellaneous article covers the diagnosis of rabies in a wolf which attacked a man in Croatia. This problem has been described before in other countries and is clearly a reflection of the severe rabies situation in the country. Therefore, additional information on the situation of rabies in Croatia is also provided. In issue 1/2009 we presented our view on the problems of tendering for oral rabies vaccine baits in the article "Oral Rabies Vaccination (ORV) campaigns in jeopardy!?". In this issue we publish the opinion of our French colleagues. Despite differences in opinion we should never lose sight of the penultimate goal, the elimination of rabies from the fox population.

Conrad Freuling  
Thomas Müller

## 2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES

3th QUARTER 2009

01.07.09-30.09.09

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	0	0	0	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS	BLR	205	130	75	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	6	4	2	0	0
BULGARIA	BGR	9	7	2	0	0
CROATIA	HRV	134	126	8	0	0
CYPRUS	CYP	0	0	0	0	0
CZECH REPUBLIC	CZH	0	0	0	0	0
DENMARK	DNK	0	0	0	0	0
ESTONIA	EST	1	1	0	0	0
FINLAND	FIN	1	0	0	1	0
FRANCE	Frau	7	0	0	7	0
GERMANY	DEU	2	0	0	2	0
GREECE	GRC	0	0	0	0	0
HUNGARY	HUN	1	0	0	1	0
ICELAND	ISL	0	0	0	0	0
IRELAND	IRE	0	0	0	0	0
ITALY	ITA	11	11	0	0	0
LATVIA	LVA	19	14	5	0	0
LITHUANIA	LTU	19	15	4	0	0
LUXEMBOURG	LUX	0	0	0	0	0
MACEDONIA	MKD	0	0	0	0	0
MALTA	MLT	0	0	0	0	0
MOLDOVA	MDA	9	5	4	0	0
MONTENEGRO	MNE	4	3	1	0	0
NETHERLANDS	NED	7	0	0	7	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	1	0	0	1	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	75	47	27	1	0
RUSSIAN FEDERATION	RUS	502	313	189	0	0
SERBIA	SRB	29	24	5	0	0
SLOVAK REPUBLIC	SVK	0	0	0	0	0
SLOVENIA	SVN	2	2	0	0	0
SPAIN	ESP	0	0	0	0	0
SWEDEN	SWE	0	0	0	0	0
SWITZERLAND + LIEC.	CHE	0	0	0	0	0
TURKEY	TUR*	0	0	0	0	0
UKRAINE	UKR	253	110	143	0	0
UNITED KINGDOM	UNK	1	0	0	1	0
<b>TOTAL</b>		<b>1298</b>	<b>812</b>	<b>465</b>	<b>21</b>	<b>0</b>

Wildlife: excluding bats

\* no data

### 3. Miscellaneous Articles

#### 3. 1 Bites of a rabid wolf in 67-year old man in north-eastern part of Croatia

Lojkić I.<sup>1</sup>, Galić M.<sup>2</sup>, Čač Ž.<sup>1</sup>, Jelić I.<sup>2</sup>, Bedeković T.<sup>1</sup>, Lojkić M.<sup>1</sup>, Cvetnić Ž.<sup>1</sup>

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<sup>2</sup> General Hospital "Dr. Ivo Pedišić", Sisak, Croatia

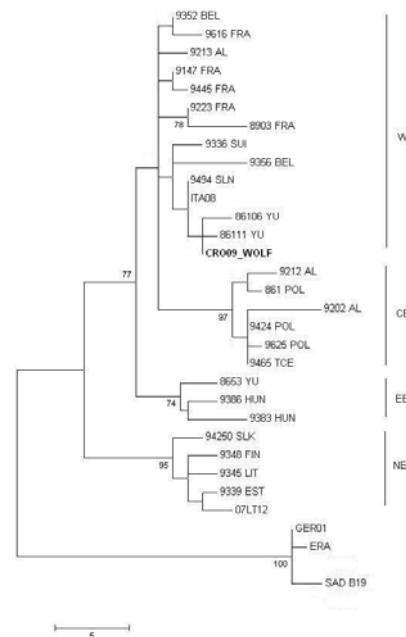
On 22 of March 2009 a female grey wolf (*Canis lupus*) attacked a 67-year old man in his backyard in Donji Žirovac in Sisacko-Moslavacka County in north-eastern part of Croatia. He suffered from amputation of his left hand, nose, upper lip and a part of the maxilla. He was also severely bitten in his right arm and leg.

The victim was administered anti-rabies IgG (HRIG) in two doses of 1940 and 1880 I.U., respectively, tetanus antiserum, and a course of anti-rabies vaccine as complex post exposure prophylaxis. Wounds on his face and arm were surgically treated. After 14 days the patient was released from the hospital. Three months later the last plastic surgery was performed.

During police investigation, early after attack, the wolf came back and tried to attack the police officer, who shot the wolf in self-defence. In the same evening, five lambs and one sheep were slaughtered by the "wild animal". Brain samples from the wolf and three lambs were submitted to the Laboratory for Rabies and General Virology at the Croatian Veterinary Institute, Zagreb.

The brain sample from the wolf tested positive in the fluorescent antibody test (FAT) for rabies virus. The virus was isolated on murine neuroblastoma cell culture (1), and was confirmed by RT-PCR using specific primers (2). The 606 bp PCR fragment of the gene encoding the nucleoprotein (N) was sequenced (GenBank Acc.Number

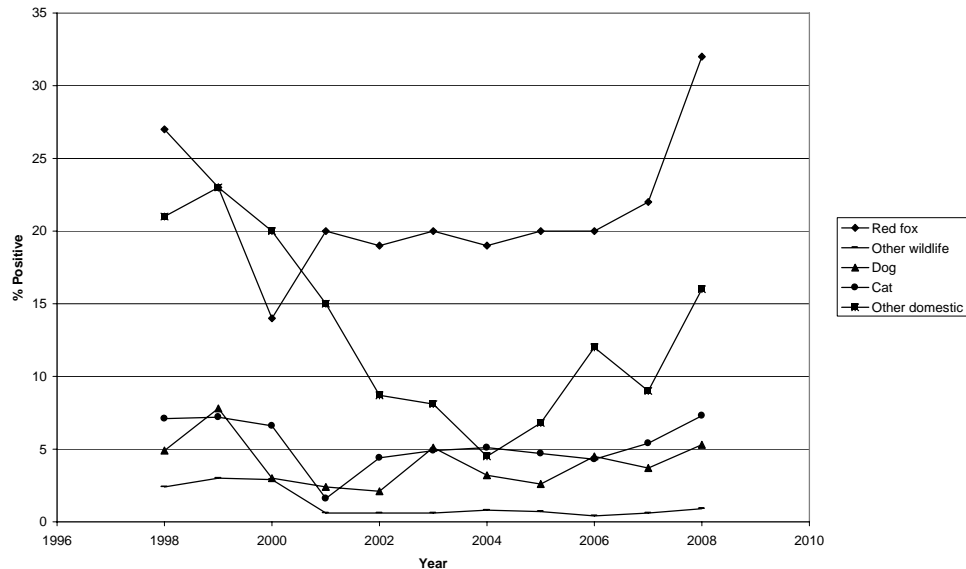
GU134624) and a 400 nt part was aligned with the sequences available in GenBank. Phylogenetic analysis was performed using the maximum parsimony method with 500 bootstrap replicates, as implemented by the Mega 4 programme (3). As expected, brain samples from three lambs submitted the next day to our laboratory tested negative in FAT. Phylogenetic analysis (Figure 1) clustered our wolf isolate in the Western European group (4).



**Figure 1. Phylogenetic analysis of the RABVs based on a 400 bp region of the nucleoprotein gene with the Croatian wolf isolate highlighted in bold. The abbreviations: CE, WE, EE and NEE represent main European phylogenetic groups.**

As expected, it was closely related to rabies viruses isolated from neighbouring countries and shared 99% identity with a 400bp fragment of the N gene sequence of the Italian dog strain 09RS-1459/Udine/2009 and red fox strain 08RS-1981/Udine/2008, Slovenian strains 94100SLN 9494SLN, and red fox isolates from former Federal Republic of Yugoslavia. Like in most European countries, rabies in Croatia is strictly silvatic,

differences in incidence, and only islands have been spared so far (5). According to the data submitted to the Rabies Bulletin Europe rabies is an increasing problem in Croatia during last few years. Almost 25% of all fox brain samples analyzed in our laboratory tested rabies positive (6). During the period 2001-2006, cases of rabies in red foxes submitted for testing had a positivity rate of about 20 % per year. However, in the last two years



**Figure 2: Positivity rate in laboratory submissions of wildlife and domestic animals in Croatia from 1998 to 2008**

with the red fox (*Vulpes vulpes*) as the main reservoir. Although the disease is mostly perpetuated within the fox population, foxes occasionally transmit disease to other wild and domestic animal species. Starting in spring 1977 when the first rabies case was diagnosed in a fox from Koprivnicko-Krizevacka county close to Hungarian border, cases of fox rabies have been diagnosed in every county, covering the entire territory of Croatia. In the last 10 years the disease has become enzootic in many counties with some

this proportion strongly increased (Figure 2). The hunting practise and the submission of foxes did not change over time, so an increase in the rabies incidence among foxes could be suggested. Rabies detection in other wildlife had a relatively stable but low rate. The rate increased from 0.4 to 0.9% in the last two years (Figure 2) but due to the few numbers this is statistically not significant. The number of positive dogs and cats remained stable. Cases in dogs might be due to ignorance of current vaccination regulations. For

cats, however, vaccination is not mandatory.

In the last decade, four wolves tested rabies positive, of which three were involved in attacks on humans. According to the IUCN (International Union for Conservation of Nature and Natural Resources), the grey wolf is on the Red List of endangered species. However, the wolf population in Croatia is considered stabile, with approximately 205 individuals organized in 50 packs.

Since oral vaccination of foxes is still not implemented in Croatia, mandatory vaccination of dogs according to the regulation is still the only efficient way of preventing rabies cases in dogs and cats with goal to protect humans from the infection.

#### Literature

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### 3.2 Letter regarding the article "Oral Rabies Vaccination (ORV) campaigns in jeopardy!?" published in RBE (33) 1/2009, 7-8.

Cliquet, F<sup>1</sup> and Meslin, F.X.<sup>2</sup>

<sup>1</sup> AFSSA-Nancy, WHO Collaborating Centre for Research and Management in Zoonoses Control, OIE Reference Laboratory for Rabies, Community Reference Laboratory for Rabies Serology, Community Reference Laboratory for Rabies, Nancy, France.

<sup>2</sup> Secretary of the WHO Rabies Expert Committee meetings/consultations, World Health Organization Headquarters, Geneva, Switzerland

We read with interest the article entitled "Oral Rabies Vaccination (ORV) campaigns in jeopardy!?" written by the editorial team of the WHO Rabies Bulletin Europe and published in its first quarterly issue for 2009 (accessible at [http://www.who-rabies-bulletin.org/Journal/Archive/Bulletin\\_2009\\_1.PDF](http://www.who-rabies-bulletin.org/Journal/Archive/Bulletin_2009_1.PDF)). The authors of this paper working in an institute which is both a WHO Collaborating Centre for Rabies Surveillance and Research and an OIE reference laboratory for rabies intended to provide advice to national authorities developing tender requirements for oral rabies vaccine baits. As a conclusion the authors made the following statement : "We therefore strongly suggest that countries within EU that purchase baits through public tender procedures will limit the technical specifications of the vaccine baits to the requirements as listed in the European Pharmacopoeia (EP) monograph". This short article below discusses the above statement on the basis of most recent WHO and OIE international guidelines on selection of oral vaccines for animal rabies control.

As indicated by the RBE editorial team, the rabies situation has been greatly improved in European Member States over the past 10 years thanks to the implementation of rabies control programmes using

oral vaccine baits destined mostly to the immunization of foxes, the main rabies host species in these countries. This success is the result of control programmes executed every year and sustained over as many years as required until rabies elimination is achieved. It is therefore of utmost importance that each and every country involved establishes technical specifications for the procurement of the quantities of oral vaccine baits needed by the vaccination programme.

The European Pharmacopoeia (EP) monograph [1] for live rabies vaccine, as all standards published by the European Pharmacopoeia, provides requirements for use mainly by manufacturers on quality control during vaccine development, production and marketing. Several points covered by this monograph are not in line with more recent WHO [2] and OIE [3] recommendations and guidelines. These WHO and OIE guidance documents were issued or updated in 2005 and 2008, respectively, whereas the EP monograph content was edited in 1997 (to our knowledge, only editorial changes in the presentation have been made in 2002 and 2008). It should be noted in particular that both WHO and OIE guidance, acknowledging the fact that vaccines have different residual pathogenicity related to the level of



attenuation of the seed viral strain, encourage the use of oral rabies vaccines that do not induce any adverse signs and have the lowest residual pathogenicity in target and non-target animals.

In addition the European Commission (EC) in 2001 asked six European experts to collectively produce draft specific recommendations for validation by a larger panel of experts for oral vaccination programme implementation in Europe. This document, published in 2002, contains 21 practical recommendations related to types of vaccines and baits, methods of release of vaccine baits, bait density, bait distribution pattern and seasonal pattern of the releases [4] that can be used to design technical specifications.

It therefore appears that the current EP monograph cannot be considered as the only source of information for elaborating technical specifications for oral vaccine bait tenders. Specifications must be updated using most recent expert recommendations elaborated collectively on the basis of the best science available and endorsed by consensus. Should this update not be possible or represent too long a process, it is absolutely necessary to use in the tendering procedures the EP monograph together with the more recent WHO and OIE recommendations and/or standards as well as those from the EC report.

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## 4 DISTRIBUTION OF RABIES IN EUROPE

### 4.1 Country summaries of rabies cases, 3rd quarter 2009

01.07.09-30.09.09

Country		Domestic animals									Wildlife											bat	Human cases	total			
		dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelids	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
Name	Code																										
Albania	ALB									0														0			0
Austria	AUT									0														0			0
Belarus	BLR	25	24	20	6					75	113	12					5						130			205	
Belgium	BEL									0													0			0	
Bosnia - Hercegovina	BIH			2						2	4												4			6	
Bulgaria	BGR	1	1							2	7												7			9	
Croatia	HRV	3	3		1	1				8	122						1			3			126			134	
Cyprus	CYP									0													0			0	
Czech Republic	CZH									0													0			0	
Denmark	DNK									0													0			0	
Estonia	EST									0	1												1			1	
Finland	FIN									0													0	1		1	
France	FRA									0													0	7		7	
Germany	DEU									0													0	2		2	
Greece	GRC									0													0			0	
Hungary	HUN									0													0	1		1	
Iceland	ISL									0													0			0	
Ireland	IRE									0													0			0	
Italy	ITA									0	11												11			11	
Latvia	LVA	1	4							5	6	4		4									14			19	
Lithuania	LTU	2		2						4	5	7		1	1							1	15			19	
Luxembourg	LUX									0													0			0	
Macedonia	MKD									0													0			0	
Malta	MLT									0													0			0	
Moldova	MDA		1	2		1				4	4							1					5			9	
Montenegro	MNE			1						1	3												3			4	
Norway	NOR									0													0			0	
Poland	POL									0													0	1		1	
Portugal	PRT									0													0			0	
Romania	ROU	4	9	12		1	1			27	44					2	1					47	1		75		
Russian Federation	RUS	84	68	29		7		1		189	251	40		3	2	3	5	2				7	313		502		
Serbia	SRB	1	4							5	24												24			29	
Slovak Republic	SVK									0													0			0	
Slovenia	SVN									0	2												2			2	
Spain	ESP									0													0			0	
Sweden	SWE									0													0			0	
Switzerland + Lichtenstein	CHE									0													0			0	
The Netherlands	NED									0													0	7		7	
Turkey	TUR									0													0			0	
Ukraine	UKR	37	71	31		4				143	101	3	2	1	1	1						1	110		253		
United Kingdom	UNK									0													0	1		1	
<b>TOTAL</b>		<b>158</b>	<b>185</b>	<b>99</b>	<b>7</b>	<b>14</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>465</b>	<b>698</b>	<b>66</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>5</b>	<b>13</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>812</b>	<b>21</b>	<b>0</b>	<b>1298</b>
<b>PER CENT</b>		<b>12.2%</b>	<b>14.3%</b>	<b>7.6%</b>	<b>0.5%</b>	<b>1.1%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>35.8%</b>	<b>53.8%</b>	<b>5.1%</b>	<b>0.2%</b>	<b>0.3%</b>	<b>0.6%</b>	<b>0.4%</b>	<b>1.0%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.7%</b>	<b>62.6%</b>	<b>1.6%</b>	<b>0.0%</b>	<b>100%</b>

\* NO CASES

\*\* NO DATA

## 4.2 Rabies cases per country and administrative units, 3rd quarter 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife											bat	Human cases	total			
	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
<b>BELARUS</b>																											
Brest	1	2	2	1						6	12						2							14			20
Gomel	9	2	5							16	19	1												20			36
Grodno	2	6	5	1						14	24	2					1							27			41
Minsk	5	7	4							16	26	1					2							29			45
Mogelev										0	14													14			14
Vitebsk	8	7	4	4						23	18	8												26			49
<b>TOTAL</b>	<b>25</b>	<b>24</b>	<b>20</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75</b>	<b>113</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130</b>	<b>0</b>	<b>0</b>	<b>205</b>
<b>PER CENT</b>	<b>12,2%</b>	<b>11,7%</b>	<b>9,8%</b>	<b>2,9%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>36,6%</b>	<b>55,1%</b>	<b>5,9%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>2,4%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>63,4%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>100%</b>
<b>BOSNIA - HERCEGOVINA</b>																											
Bosansko-podrinjski										0	1													1			1
Tuzlanski										0	1													1			1
Unsko-sanski			2							2														0			2
Zenicko-dobojski										0	2													2			2
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>6</b>
<b>PER CENT</b>	<b>0,0%</b>	<b>0,0%</b>	<b>33,3%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>33,3%</b>	<b>66,7%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>66,7%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>100%</b>
<b>CROATIA</b>																											
Bjelovarsko - Bilogorska										0	10													10			10
Brodsko - Posavska										0	1													1			1
Istarska										0	14													14			14
Karlovacka		2								2	9													9			11
Koprivnicko - Krizevaska										0	9									1				10			10
Krapinsko - Zagorska	1	1								2	10													10			12
Licko - Senjska										0	3													3			3
Medimurska										0	3													3			3
Osjesko - Baranjska										0										1				1			1
Pozesko - Slovanska										0	2													2			2
Primorsko - Goranska										0	2									1				3			3
Sibensko - Kninska										0	3													3			3
Sisacko - Moslovska	1									1	6													6			7
Splitisko - Dalmatinska										0	1													1			1
Varazdinska										0	7					1								8			8
Viroticko - Podravska										0	2													2			2
Vukovarsko - Srijemska										0	2													2			2
Zadarska										0	4													4			4
Zagreb	1									1	7													7			8
Zagrebacka				1	1					2	27													27			29
<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>122</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>126</b>	<b>0</b>	<b>0</b>	<b>134</b>
<b>PER CENT</b>	<b>2,2%</b>	<b>2,2%</b>	<b>0,0%</b>	<b>0,7%</b>	<b>0,7%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>6,0%</b>	<b>91,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,7%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>2,2%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>94,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>100%</b>

## 4.2 Rabies cases per country and administrative units, 3rd quarter 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife												bat	Human cases	total		
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other				subtotal	
<b>ESTONIA</b>																											
Polva									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%	
<b>FINLAND</b>																											
Varsinais-Suomi									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%	
<b>FRANCE</b>																											
Aquitaine									0														0	1		1	
Bretagne									0														0	1		1	
Franche-Comté									0														0	1		1	
Lorraine									0														0	3		3	
Poitou-Charentes									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	7	0	7	
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%	
<b>GERMANY</b>																											
Bremen,Stadt									0														0	1		1	
Lüneburg									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	2	0	2	
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	100%	
<b>HUNGARY</b>																											
Budapest									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%	
<b>SERBIA</b>																											
Central Serbia		2							2	18													18			20	
Vojvodina	1	2							3	6													6			9	
TOTAL	1	4	0	0	0	0	0	0	5	24	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	29	
PER CENT	3,4%	13,8%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	17,2%	82,8%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	82,8%	0,0%	0,0%	100%	
<b>UNITED KINGDOM</b>																											
West Lothian									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 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife											bat	Human cases	total			
	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
<b>LATVIA</b>																											
Aizkraukles r.		1							1															0			1
Balvu r.									0	1														1			1
Daugavpils r.									0		1													1			1
Gulbenes r.									0		1													1			1
Kuldigas r.									0					1										1			1
Ludzas r.	1								1	1	1													2			3
Preiļu r.		1							1	2														2			3
Saldus r.									0					2										2			2
Talsu r.		2							2	1														1			3
Tukuma r.									0	1	1			1										3			3
<b>TOTAL</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>19</b>
<b>PER CENT</b>	<b>5,3%</b>	<b>21,1%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>26,3%</b>	<b>31,6%</b>	<b>21,1%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>21,1%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>73,7%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>100%</b>
<b>LITHUANIA</b>																											
Alytaus									0	1					1								1	3			3
Kauno	1								1		1													1			2
Marijampoles			1						1															0			1
Taurages									0					1										1			1
Telsiu	1								1															0			1
Utenos			1						1	3	4													7			8
Vilniaus									0	1	2													3			3
<b>TOTAL</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>5</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>19</b>
<b>PER CENT</b>	<b>10,5%</b>	<b>0,0%</b>	<b>10,5%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>21,1%</b>	<b>26,3%</b>	<b>36,8%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>5,3%</b>	<b>5,3%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>5,3%</b>	<b>78,9%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>100%</b>
<b>MOLDOVA</b>																											
Moldova		1	2		1				4	4								1						5			9
<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>9</b>
<b>PER CENT</b>	<b>0,0%</b>	<b>11,1%</b>	<b>22,2%</b>	<b>0,0%</b>	<b>11,1%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>44,4%</b>	<b>44,4%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>11,1%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>55,6%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>100%</b>
<b>MONTENEGRO</b>																											
Montenegro			1						1	3														3			4
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>4</b>
<b>PER CENT</b>	<b>0,0%</b>	<b>0,0%</b>	<b>25,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>25,0%</b>	<b>75,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>75,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>100%</b>
<b>BULGARIA</b>																											
Burgas	1								1	2														2			3
Kyustendil									0	2														2			2
Shumen		1							1	2														2			3
Targovishte									0	1														1			1
<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>9</b>
<b>PER CENT</b>	<b>11,1%</b>	<b>11,1%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>22,2%</b>	<b>77,8%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>77,8%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>100%</b>

## 4.2 Rabies cases per country and administrative units, 3rd quarter 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife											bat	Human cases	total			
	dog	cat	cattle	equine	goat	sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
<b>POLAND</b>																											
Mazowieckie									0															0	1		1
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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%	
<b>ROMANIA</b>																											
Alba			2						2	2							1							3		5	
Arad									0									1						1		1	
Arges									0	2														2		2	
Bacau		1							1	4														4		5	
Bistrita-Nasaud									0	5							1							6		6	
Brasov		1							1	7														7	1	9	
Buzau			4				1		5	1														1		6	
Cluj									0	1														1		1	
Covasna									0	1														1		1	
Galati			1						1	2														2		3	
Giurgiu		1							1															0		1	
Gorj									0	1														1		1	
Harghita									0	1														1		1	
Iasi									0	2														2		2	
Maramures	1	2							3	1														1		4	
Mehedinti									0	1														1		1	
Mures									0	2														2		2	
Neamt									0	1														1		1	
Olt	3					1			4	3														3		7	
Prahova									0	1														1		1	
Salaj									0	1														1		1	
Sibiu				2					2	1														1		3	
Suceava				1					1	1														1		2	
Teleorman									0	1														1		1	
Tulcea		2	1						3															0		3	
Valcea			1						1															0		1	
Vaslui		1							1	1														1		2	
Vrancea		1							1	1														1		2	
TOTAL	4	9	12	0	1	1	0	0	27	44	0	0	0	0	0	0	2	1	0	0	0	0	0	47	1	0	75
PER CENT	5,3%	12,0%	16,0%	0,0%	1,3%	1,3%	0,0%	0,0%	36,0%	58,7%	0,0%	0,0%	0,0%	0,0%	0,0%	2,7%	1,3%	0,0%	0,0%	0,0%	0,0%	0,0%	62,7%	1,3%	0,0%	100%	
<b>ITALY</b>																											
Udine									0	11														11		11	
TOTAL	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11
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 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife											bat	Human cases	total			
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal	
<b>RUSSIAN FEDERATION</b>																											
Adygeja resp.									0								2							2			2
Astrahanskja obl.	3	3							6				1		1	1								2			5
Belgorodskaja obl.	4	12	2						18	6														7			25
Brjanskaja obl.	1								1	10				1										1			12
Cecenskaja resp.			1						1															0			1
Cuvasskaja resp.	1	3							4	4					1									4			8
Ivanovskaja obl.		1							1	2												1		3			4
Jaroslavskaja obl.		1							1	2	2													4			5
Kabardino-Balkanskaja resp.	2								2															0			2
Kaliningradskaja obl.									0	2						1								3			3
Kalmykija resp.	2								2															0			2
Kaluzskaja obl.	3				1				4	2														2			6
Karacaevo-Cerkesskaja resp.	1		1						2	1														1			3
Krasnodarskij kr.	2	2							4														1	1			5
Kurskaja obl.		3	2						5	3														3			8
Lipeckaja obl.		2							2	2														2			4
Marij El resp.									0	1														1			1
Mordovija resp.			2						2	17					1	1								19			21
Moskovskaja obl.	6	6	2		1				15	37	15													52			67
Nizgorodskaja obl.	5	4	1		2				12	59					1	1								61			73
Novgorodskaja obl.		1							1															0			1
Orlovskaja obl.		4	1						5	4														4			9
Penzenskaja obl.	6	3	6						15	24			1			1								26			41
Pskovskaja obl.	1	2							3	2														2			5
Rjazanskaja obl.									0	1														1			1
Rostovskaja obl.	4		2						6							1								1			7
Saratovskaja obl.	6	4	3						13	12														12			25
Severnaja Osetija-Alanija resp.	5	3	1					1	10															0			10
Smolenskaja obl.	2								2	13	4		1											18			20
Stavropol'skij kr.	5	1							6	3														3			9
Tambovskaja obl.	1		1						2	6														6			8
Tul'skaja obl.	3		1						4	6	1													7			11
Tverskaja obl.	5	8	1		1				15	17	16											1		34			49
Uljanovskaja obl.	4								4	2														2			6
Vladimirska obl.	3	2			1				6	5	1													6			12
Volgogradskaja obl.	3								3															0			3
Voronezskaja obl.	6	3	2		1				12	8												1		9			21
<b>TOTAL</b>	<b>84</b>	<b>68</b>	<b>29</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>189</b>	<b>251</b>	<b>40</b>	<b>0</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>313</b>	<b>0</b>	<b>0</b>	<b>502</b>
<b>PER CENT</b>	<b>16,7%</b>	<b>13,5%</b>	<b>5,8%</b>	<b>0,0%</b>	<b>1,4%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,2%</b>	<b>37,6%</b>	<b>50,0%</b>	<b>8,0%</b>	<b>0,0%</b>	<b>0,6%</b>	<b>0,4%</b>	<b>0,6%</b>	<b>1,0%</b>	<b>0,4%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>1,4%</b>	<b>62,4%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>100%</b>

## 4.2 Rabies cases per country and administrative units, 3rd quarter 2009

01.07.09-30.09.09

Location	Domestic animals										Wildlife											bat	Human cases	total		
	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal
<b>SLOVENIA</b>																										
Podravska									0	1													1			1
Savinjska									0	1													1			1
TOTAL	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
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%
<b>THE NETHERLANDS</b>																										
Drenthe									0														0	1		1
Groningen									0														0	4		4
Noord-Holland									0														0	1		1
Zuid-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	7	0	7	
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%	100.0%	0.0%	100%	
<b>UKRAINE</b>																										
Crimea									1														0			1
Volynskaya o.		1							1	3													3			4
Cherkasskaya o.	2	5							7	1													1			8
Chernigovskaya o.	2	7	1						10	3													3			13
Chernovitskaya o.		1							1												1		1			2
Dnepropetrovskaya o.	3	3	3		1				10	8	3												11			21
Donetskaya o.	9	2	3						14	8													8			22
Kharkovskaya o.	6	13	6		1				26	5													5			31
Khersonskaya o.	1	4	2						7	8		1											9			16
Khmel'nitskaya o.	2	4	3						9	13													13			22
Kirovogradskaya o.		1							1														0			1
Kiyevskaya o.		8							8	4			1										5			13
Luganskaya o.	2	4	1		1				8	2													2			10
L'vovskaya o.		1							1	4													4			5
Nikolayevskaya o.		2							2	1													1			3
Odesskaya o.	2	3	2						7	6			1	1									8			15
Poltavskaya o.		2							2	1													1			3
Rovenskaya o.	2	1	1						4	2													2			6
Sumskaya o.		4	4						8	3													3			11
Ternopolskaya o.	1		1						2	3													3			5
Vinnitskaya o.	4	3			1				8	14													14			22
Zaporozhskaya o.			2						2	5													5			7
Zhitomirskaya o.	1	1	2						4	7		1											8			12
TOTAL	37	71	31	0	4	0	0	0	143	101	3	2	2	1	0	0	0	0	0	0	0	1	110	0	0	253
PER CENT	14.6%	28.1%	12.3%	0.0%	1.6%	0.0%	0.0%	0.0%	56.5%	39.9%	1.2%	0.8%	0.8%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	43.5%	0.0%	0.0%	100%



## 4.3 Trend tables

### 4.3.1 Comparison of the reporting quarter (III/2009) with the previous quarter (II/2009)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2009 (no.)	II 2009 (no.)	Difference	III 2009 (no.)	II 2009 (no.)	Difference	III 2009 (no.)	II 2009 (no.)	Difference	III 2009 (no.)	II 2009 (no.)	Difference	III 2009 (no.)	II 2009 (no.)	Difference
Albania															
Austria															
Belarus	205	200	5	130	128	2	75	72	3						
Belgium															
Bosnia - Hercegovina	6	5	1	4	4		2	1	1						
Bulgaria	9	17	-8	7	12	-5	2	5	-3						
Croatia	134	122	12	126	112	14	8	10	-2						
Cyprus															
Czech Republic															
Denmark															
Estonia	1	2	-1	1	2	-1									
Finland	1		1							1		1			
France	7	5	2					1	-1	7	4	3			
Germany	2		2							2		2			
Greece															
Hungary	1		1							1		1			
Iceland															
Ireland															
Italy	11	5	6	11	4	7		1	-1						
Latvia	19	21	-2	14	16	-2	5	5							
Lithuania	19	14	5	15	11	4	4	3	1						
Luxembourg															
Macedonia															
Malta															
Moldova	9	3	6	5		5	4	3	1						
Montenegro	4	18	-14	3	16	-13	1	2	-1						
Norway															
Poland	1	4	-3		3	-3				1	1				
Portugal															
Romania	75	88	-13	47	61	-14	27	27		1		1			
Russian Federation	502	557	-55	313	321	-8	189	231	-42		1	-1		4	-4
Serbia	29	45	-16	24	32	-8	5	13	-8						
Slovak Republic															
Slovenia	2	7	-5	2	7	-5									
Spain		4	-4					3	-3		1	-1			
Sweden															
Switzerland + Lichtenstein															
The Netherlands	7	4	3							7	4	3			
Turkey*															
Ukraine	253	147	106	110	47	63	143	100	43						
United Kingdom	1		1							1		1			
<b>TOTAL</b>	<b>1298</b>	<b>1268</b>	<b>30</b>	<b>812</b>	<b>776</b>	<b>36</b>	<b>465</b>	<b>477</b>	<b>-12</b>	<b>21</b>	<b>11</b>	<b>10</b>	<b>0</b>	<b>4</b>	<b>-4</b>

Wildlife: excluding bats

III/2009 (no.), II/2009 (no.): number of cases

Difference: no. of cases in III/2009 minus cases in II/2009

\* no data

#### 4.3.2 Comparison of the reporting quarter (III/2009) with the same quarter of the previous year (III/2008)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2009 (no.)	III 2008 (no.)	Difference	III 2009 (no.)	III 2008 (no.)	Difference	III 2009 (no.)	III 2008 (no.)	Difference	III 2009 (no.)	III 2008 (no.)	Difference	III 2009 (no.)	III 2008 (no.)	Difference
Albania															
Austria															
Belarus	205	235	-30	130	189	-59	75	46	29						
Belgium															
Bosnia - Hercegovina	6	13	-7	4	9	-5	2	4	-2						
Bulgaria	9	11	-2	7	10	-3	2	1	1						
Croatia	134	217	-83	126	197	-71	8	20	-12						
Cyprus															
Czech Republic															
Denmark															
Estonia	1		1	1		1									
Finland	1		1							1		1			
France	7	3	4							7	3	4			
Germany	2	8	-6							2	8	-6			
Greece															
Hungary	1	2	-1		2	-2				1		1			
Iceland															
Ireland															
Italy	11		11	11		11									
Latvia	19	20	-1	14	20	-6	5		5						
Lithuania	19	28	-9	15	20	-5	4	8	-4						
Luxembourg															
Macedonia															
Malta															
Moldova	9	12	-3	5	2	3	4	10	-6						
Montenegro	4	11	-7	3	10	-7	1	1							
Norway															
Poland	1	5	-4		1	-1		1	-1	1	3	-2			
Portugal															
Romania	75	143	-68	47	110	-63	27	33	-6	1		1			
Russian Federation	502	592	-90	313	329	-16	189	260	-71					3	-3
Serbia	29	46	-17	24	38	-14	5	8	-3						
Slovak Republic															
Slovenia	2	7	-5	2	7	-5									
Spain		1	-1					1	-1						
Sweden															
Switzerland + Lichtenstein															
The Netherlands	7	11	-4							7	11	-4			
Turkey	*	79		*	6		*	73		*			*		
Ukraine	253	391	-138	110	127	-17	143	264	-121						
United Kingdom	1		1							1		1			
<b>TOTAL</b>	<b>1298</b>	<b>1835</b>	<b>-458</b>	<b>812</b>	<b>1077</b>	<b>-259</b>	<b>465</b>	<b>730</b>	<b>-192</b>	<b>21</b>	<b>25</b>	<b>-4</b>	<b>0</b>	<b>3</b>	<b>-3</b>

Wildlife: excluding bats

III/2009 (no.), III/2008 (no.): number of cases

Difference: no. of cases in III/2009 minus cases in III/2008

\* no data

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**RABIES CASES EUROPE**  
**3rd QUARTER 2009**  
**1298 CASES REPORTED**

**21 BAT RABIES CASES INCLUDED**

■ rabies free (terrestrial rabies)  
□ no data

200 km

Black Sea

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