

# RABIES BULLETIN EUROPE

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Map of rabies cases in Europe, 3<sup>rd</sup> quarter 2010

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# 1. Editorial

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In this quarter (III/2010) the rabies situation in Europe generally followed the trend of previous years, i.e. the rabies situation is improving in most countries that implement oral rabies vaccination. In particular, in Italy, where rabies re-emerged in foxes the number of reported rabies cases was only 7 compared to 74 cases in the previous quarter. This positive trend seems to be the results of a modification of the vaccination strategy to also vaccinate areas above 1500m. On the other hand, rabies re-emerged after 7 years in the Małopolskie vojvodship in Poland. We hope to provide a miscellaneous article from the Polish colleagues on this recent development in one of the next issues.

The first miscellaneous article covers the Swiss bat rabies surveillance results. So far, only EBLV-2 has been found in three Daubenton's bats. The second article by Tiziana Lembo and the Partners for Rabies Prevention is about the development of a "Blueprint for Rabies Prevention and Control". It brings together all the necessary components for an integrated approach to eliminate canine rabies. To optimize the outreach especially in developing countries, the website has a user friendly format and an interactive CD containing a copy of the website contents is used in areas with no or limited internet access.

Conrad Freuling  
Thomas Müller

## 2. SUMMARY OF RABIES CASES IN EUROPE

RABIES CASES

3rd QUARTER 2010

01.07.10-30.09.10

Name	Code	Total	Wildlife	Domestic animals	Bats	Human
ALBANIA	ALB	0	0	0	0	0
AUSTRIA	AUT	0	0	0	0	0
BELARUS	BLR	209	154	55	0	0
BELGIUM	BEL	0	0	0	0	0
BOSNIA - HERCEGOVINA	BIH	3	3	0	0	0
BULGARIA	BGR	1	0	1	0	0
CROATIA	HRV	149	137	12	0	0
CYPRUS	CYP	0	0	0	0	0
CZECH REPUBLIC	CZH	0	0	0	0	0
DENMARK	DNK	0	0	0	0	0
ESTONIA	EST	0	0	0	0	0
FINLAND	FIN	0	0	0	0	0
FRANCE	FRA	4	0	0	4	0
GERMANY	DEU	3	0	0	3	0
GREECE	GRC	0	0	0	0	0
HUNGARY	HUN	0	0	0	0	0
ICELAND	ISL	0	0	0	0	0
IRELAND	IRE	0	0	0	0	0
ITALY	ITA	7	5	2	0	0
LATVIA	LVA	2	2	0	0	0
LITHUANIA	LTU	6	6	0	0	0
LUXEMBOURG	LUX	0	0	0	0	0
MACEDONIA	MKD	0	0	0	0	0
MALTA	MLT	0	0	0	0	0
MOLDOVA	MDA	37	5	32	0	0
MONTENEGRO	MNE	14	13	1	0	0
NETHERLANDS	NED	3	0	0	3	0
NORWAY	NOR	0	0	0	0	0
POLAND	POL	33	22	5	6	0
PORTUGAL	PRT	0	0	0	0	0
ROMANIA	ROU	85	56	29	0	0
RUSSIAN FEDERATION	RUS	513	302	210	0	1
SERBIA	SRB	17	16	1	0	0
SLOVAK REPUBLIC	SVK	0	0	0	0	0
SLOVENIA	SVN	2	2	0	0	0
SPAIN	ESP	2	0	1	1	0
SWEDEN	SWE	0	0	0	0	0
SWITZERLAND + LIEC.	CHE	0	0	0	0	0
TURKEY	TUR *	*				
UKRAINE	UKR	304	116	185	1	2
UNITED KINGDOM	UNK	0	0	0	0	0
<b>TOTAL</b>		<b>1394</b>	<b>839</b>	<b>534</b>	<b>18</b>	<b>3</b>

Wildlife: excluding bats

\* no data

# 3. Miscellaneous Articles

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## 3. 1 Passive and Targeted Surveillance for European Bat Lyssavirus in Swiss Bats

A. Megali<sup>1</sup>, G. Yannic<sup>1,2,4</sup>, M.-L. Zahno<sup>3</sup>, D. Brügger<sup>3</sup>, G. Bertoni<sup>3</sup>, P. Christe<sup>1,4</sup> and R. Zanoni<sup>3,4</sup>

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<sup>2</sup> Centre de coordination ouest pour l'étude et la protection des chauves-souris, Suisse, 1 Rte de Malagnou, 1208 Geneva, Switzerland

<sup>3</sup> Institute of Veterinary Virology, Swiss Rabies Centre, Länggass-Strasse 122, 3012 Bern, Switzerland

<sup>4</sup> These authors share the seniorship of this article

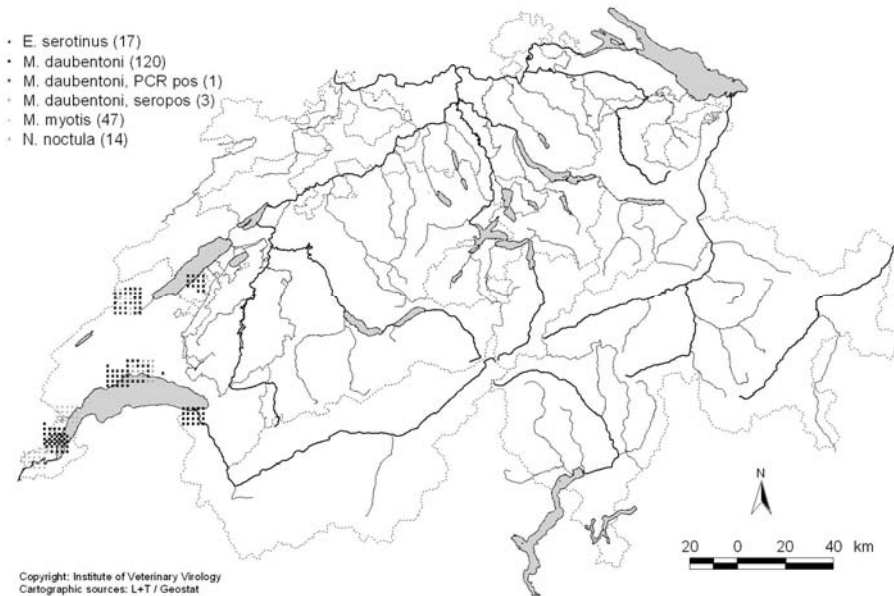
Most countries in Western Europe are currently free of rabies in terrestrial mammals. Nevertheless, rabies remains a residual risk to public health due to the natural circulation of European bat lyssaviruses (EBLV-1 & EBLV-2), which are widely distributed throughout Europe. Little is known of their true prevalence and epidemiology. In Switzerland, a total of 837 bat brain specimens have been analysed in FAT (fluorescent antibody test)/RTCIT (rabies tissue-culture infection test) between 1976 and 2009. Daubenton's bat was the only species found to be positive, one in August 24, 1992 in Plaffeien, canton of Fribourg, one in July 10, 1993 in Versoix, canton of Geneva and one in September 2, 2002 in the City of Geneva, canton of Geneva. So far, no bat infected with EBLV-1 has been found. The numbers of bats submitted varied from 1 to several dozens since 1986. Almost 50% of the submitted specimens were pipistrelles (*Pipistrellus* spp.) whereas only 64 bats were *M. daubentoni* (7.6%), and 21 were *Eptesicus serotinus* (2.5 %), the two main vectors of EBLVs. Overall, the area covered roughly the most

suitable habitats for bats in Switzerland, avoiding higher mountainous regions.

A total of 237 bats captured at different sites in western Switzerland in 2009, including 148 *M. daubentoni*, 51 *M. myotis*, 23 *E. serotinus* and 15 *N. noctula* were analysed for both viral RNA and antiviral neutralising antibodies (RFFIT, rapid fluorescent focus inhibition test, Smith *et al.*, 1973; Zalan *et al.*, 1979) in oropharyngeal swabs and blood samples, respectively (Fig. 1). Of these, only one Daubenton's bat (0.4%) was found positive for EBLV-2b RNA in RT-PCR using nested primers (Vazquez-Moron *et al.*, 2006). Since virus isolation over four passages using RTCIT was negative, it was not considered a reportable case (Picard *et al.*, 2005). This bat was an adult female caught in Genthod in the canton of Geneva not showing any signs of poor health condition or bizarre behaviour. Phylogenetic reconstruction revealed close relatedness of the sequence of this sample with the other three EBLV-2b sequences previously identified in Swiss Daubenton's bats, particularly to the

one that has been found in Geneva city in 2002. The bootstrap support for the subdivision of EBLV-2 in the lineages EBLV-2a and EBLV-2b as suggested before (Amengual *et al.* 1997) was reasonable (not shown). Furthermore, 202 blood samples of the captured bats (124 *M. daubentoni*, 48 *M. myotis*, 17 *E. serotinus* and 14 *N. noctula*) were tested individually for rabies virus neutralising antibodies using CVS and/or EBLV-2b as challenge virus. Three Daubenton's bats from different sampling sites were found to be seropositive. The positive samples were from Baulmes, canton of Vaud, Dorigny, canton of Vaud and Genthod, canton of Geneva.

The detection of neutralizing antibodies in blood samples, indicating past exposure to EBLV, and the detection of viral RNA in oropharyngeal swabs suggest recent active circulation of EBLV in Swiss Daubenton's bats. No positive sample either in serology or RT-PCR was found in the other three species sampled (Serotine bat, Noctule bat and Greater Mouse-eared bat). The seroprevalence in Daubenton's bat was 2.4% (3/124 bats tested), whereas the prevalence estimated by RT-PCR was 0.7% (1/148 bats). This low prevalence seems to be in accordance with the north-to-south gradient in the frequency of EBLVs



**Figure 1: The distribution of records from the targeted bat rabies surveillance in Switzerland 2009. Sampling sites are indicated with coordinates of individual samples shifted for clarity. Only samples tested in both RT-PCR in saliva and in neutralization test are included. Bat species and samples with positive results are indicated.**

detected in Western Europe (Müller, 1996). The present work confirms EBLV-2 infection in Daubenton's bats in Switzerland but considering the biased sampling, the epidemic picture of EBLV remains incomplete. Therefore, both active and passive surveillance must be maintained in order to assess more appropriately the potential risk for public health.

### References

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Smith, J.S., Yager, P.A., & Baer, G.M. (1973). A rapid reproducible test for determining rabies neutralizing antibody. *Bulletin of the World Health Organization* 48, 535-541.

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Zalan, E., Wilson, C., & Pukitis, D. (1979). A microtest for the quantitation of rabies virus neutralizing antibodies. *Journal of Biological Standardization* 7, 213-220.

### 3. 2 Development of a Blueprint for Rabies Prevention and Control

Lembo, T.<sup>1</sup> and Partners for Rabies Prevention<sup>#</sup>

<sup>1</sup>Global Alliance for Rabies Control, USA

The expertise to successfully eliminate canine rabies, which causes almost all human rabies deaths, exist. Guidelines and publications on various aspects of controlling rabies in domestic dogs and preventing rabies in humans are available. Yet the actual design and implementation of rabies management programs both in areas where canine rabies is endemic or has been re-introduced pose considerable challenges. This is especially true when rabies enters a new area, where levels of awareness and disease response capacity are low, hence the frequent adoption of inadequate containment measures.



In an attempt to enable canine rabies affected areas to develop their own national programs for preventing human rabies, global rabies experts from the "Partners for Rabies Prevention" (PRP) have constructed an online standard operating procedure or "Blueprint", available free of charge on the world

wide web ([www.rabiesblueprint.com](http://www.rabiesblueprint.com)). The initiative was coordinated by the Global Alliance for Rabies Control ([www.rabiescontrol.net](http://www.rabiescontrol.net)), with technical support by the Bamako Emergency Centre for Transboundary Animal Disease of the Food and Agriculture Organization.

The Blueprint for Rabies Prevention and Control brings together all the necessary components for an integrated approach to eliminate canine rabies. These include information pertaining to: (1) the agencies that need to be involved in rabies prevention and control activities, and their roles and responsibilities; (2) the minimum amount of infrastructure required, legislative frameworks, and costs and funding opportunities; (3) how to prepare a country-specific communications plan; and (4) the operational requirements for a successful program to eliminate canine rabies from an area and maintain a rabies-free status (including rabies surveillance networks, dog vaccination strategies, recommendations for human rabies prevention, aspects of animal welfare, and mechanisms for evaluation and sustainability). The Rabies Blueprint also provides links to more detailed online or paper-based documents that serve as references for rabies prevention and control, as well as case studies from countries that have implemented successful programs.

To optimize the outreach of the initiative, the Rabies Blueprint



website has been developed in a user friendly format and at a resolution that allows countries with low-speed internet connections to navigate through it. The economical design of the website also enables connection to the internet via mobile phones to access rabies control information. To increase usage worldwide, particularly in areas with no or limited internet access, an interactive CD containing a copy of the website contents has also been developed.

Launched in June 2010 the Rabies Blueprint initiative has rapidly attained a broad global reach. Over 13,000 visits (> 2,000 per month) to the website have been made from 104 countries/territories within the Americas, Europe, Asia, Africa and Oceania. At present the Blueprint is available in English and French and is being translated into Spanish and Portuguese. A number of other languages are also being considered, including Arabic and Russian. The availability of the Rabies Blueprint in an increasing number of languages is expected to further expand its global outreach.

The Blueprint is a living document in that it will continue to evolve to include all new or modified recommendations as they become available and to provide access to additional rabies control and prevention resources as they reach completion. A major addition to the current document will be the inclusion of a component focusing specifically on wildlife rabies control.

#The **Partners for Rabies Prevention (PRP)** informal group was created in 2008 by the Alliance for Rabies Control.

The Partners for Rabies Prevention consists of an informal network of [stakeholders](#) working in the field of rabies prevention and control (<http://www.rabiescontrol.net/EN/pr/Stakeholders.html>).

The goal of this informal network is to provide a platform by which to share information and expertise and to exchange and discuss current information in the field of rabies prevention including: global epidemiology; outbreak information; new tools and diagnostic techniques; laboratory surveillance; and educational awareness and advocacy.

The vision of the Partners for Rabies Prevention is to develop a road map by which to eliminate canine rabies worldwide, to prevent human rabies, and to control rabies in wildlife. The Partners for Rabies Prevention does not have an operational vocation. All operational activities that arise as a result of discussions among participants of the informal network of the Partners for Rabies Prevention are completed either through the Alliance for Rabies Control or through one of the institutions involved in the informal network acting on behalf of the group.

The Partners for Rabies Prevention informal network is open to participants that have something to contribute to the discussion and exchange of information.



## 4 DISTRIBUTION OF RABIES IN EUROPE

### 4.1 Country summaries of rabies cases, 3rd quarter 2010

01.07.10-30.09.10

Country		Domestic animals								Wildlife										bat	Human cases	total					
Name	Code	dog	cat	cattle	equine	goat sheep	pig	stray dog	other	subtotal	fox	raccoon dog	raccoon	wolf	badger	marten	other mustelides	other carnivores	wild boar	roe deer	red deer	fallow deer	other	subtotal	bat	Human cases	total
Albania	ALB *									0														0			0
Austria	AUT *									0														0			0
Belarus	BLR	15	27	12	1					55	131	14		1	2	5							1	154			209
Belgium	BEL *									0														0			0
Bosnia - Hercegovina	BIH									0		3												3			3
Bulgaria	BGR		1							1														0			1
Croatia	HRV	4		4	1	3				12	134			1	1					1				137			149
Cyprus	CYP *									0														0			0
Czech Republic	CZH *									0														0			0
Denmark	DNK *									0														0			0
Estonia	EST *									0														0			0
Finland	FIN *									0														0			0
France	FRA									0														0	4		4
Germany	DEU									0														0	3		3
Greece	GRC *									0														0			0
Hungary	HUN *									0														0			0
Iceland	ISL *									0														0			0
Ireland	IRE *									0														0			0
Italy	ITA		1	1						2	4			1										5			7
Latvia	LVA									0	1			1										2			2
Lithuania	LTU									0	2	3				1								6			6
Luxembourg	LUX									0														0			0
Macedonia	MKD *									0														0			0
Malta	MLT *									0														0			0
Moldova	MDA	7	5	20						32	4				1									5			37
Montenegro	MNE			1						1	13													13			14
Norway	NOR *									0														0			0
Poland	POL	1	2	2						5	21					1								22	6		33
Portugal	PRT *									0														0			0
Romania	ROU	10	7	8		3	1			29	54			1			1							56			85
Russian Federation	RUS	66	95	31		8		9	1	210	244	38		3	1	6	5	2					3	302	1		513
Serbia	SRB			1						1	15				1									16			17
Slovak Republic	SVK *									0														0			0
Slovenia	SVN									0	2													2			2
Spain	ESP							1		1														0	1		2
Sweden	SWE *									0														0			0
Switzerland + Lichtenstein	CHE *									0														0			0
The Netherlands	NED									0														0	3		3
Turkey	TUR **									0														0			0
Ukraine	UKR	54	90	35	1	5				185	93	5	1	3	1	13								116	1	2	304
United Kingdom	UNK *									0														0			0
<b>TOTAL</b>		<b>157</b>	<b>228</b>	<b>115</b>	<b>3</b>	<b>19</b>	<b>1</b>	<b>10</b>	<b>1</b>	<b>534</b>	<b>721</b>	<b>60</b>	<b>1</b>	<b>8</b>	<b>8</b>	<b>28</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>839</b>	<b>18</b>	<b>3</b>	<b>1394</b>
<b>PER CENT</b>		<b>11.3%</b>	<b>16.4%</b>	<b>8.2%</b>	<b>0.2%</b>	<b>1.4%</b>	<b>0.1%</b>	<b>0.7%</b>	<b>0.1%</b>	<b>38.3%</b>	<b>51.7%</b>	<b>4.3%</b>	<b>0.1%</b>	<b>0.6%</b>	<b>0.6%</b>	<b>2.0%</b>	<b>0.4%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.3%</b>	<b>60.2%</b>	<b>1.3%</b>	<b>0.2%</b>	<b>100%</b>

\* NO CASES

\*\* NO DATA

## 4.2 Rabies cases per country and administrative units, 3rd quarter 2010

01.07.10-30.09.10

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 mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal
<b>BOSNIA - HERCEGOVINA</b>																										
Zenicko-dobojski									0	3													3			3
TOTAL	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
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>BULGARIA</b>																										
Veliko Tumovo		1							1														0			1
TOTAL	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
PER CENT	0,0%	100,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100%
<b>CROATIA</b>																										
Bjelovarsko - Bilogorska	1				1				2	5													5			7
Brodsko - Posavska									0	1					1								2			2
Dubrovačko - Neretvanska					2				2	2													2			4
Istarska									0	27													27			27
Karlovacka									0	7									1				8			8
Koprivniško - Krizevska									0	2													2			2
Krapinsko - Zagorska									0	5													5			5
Osješko - Baranjska									0	3													3			3
Požesko - Slovanska									0	9													10			10
Primorsko - Goranska									0	3				1									3			3
Sibensko - Kninska									0	2													2			2
Sisačko - Moslovačka			4	1					5	19													19			24
Šplitsko - Dalmatinska	1								1	4													4			5
Varždinska									0	9													9			9
Virotičko - Podravska									0	3													3			3
Vukovarsko - Srijemska									0	9													9			9
Zadarska									0	2													2			2
Zagreb	1								1	9													9			10
Zagrebacka	1								1	13													13			14
TOTAL	4	0	4	1	3	0	0	0	12	134	0	0	0	1	1	0	0	0	1	0	0	0	137	0	0	149
PER CENT	2,7%	0,0%	2,7%	0,7%	2,0%	0,0%	0,0%	0,0%	8,1%	89,9%	0,0%	0,0%	0,0%	0,7%	0,7%	0,0%	0,0%	0,0%	0,7%	0,0%	0,0%	0,0%	91,9%	0,0%	0,0%	100%

## 4.2 Rabies cases per country and administrative units, 3rd quarter 2010

01.07.10-30.09.10

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 mustelidés	other carnivores	wild boar	roe deer	red deer	fallow deer				other	subtotal	
<b>GERMANY</b>																											
Berlin-West,Stadt Bitburg-Prüm									0 0														0 0	2 1		2 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	3	0	3
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	100%
<b>ITALY</b>																											
Belluno Trento		1	1						2 0	2 2				1									3 2			5 2	
TOTAL	0	1	1	0	0	0	0	0	2	4	0	0	0	1	0	0	0	0	0	0	0	0	5	0	0	7	
PER CENT	0,0%	14,3%	14,3%	0,0%	0,0%	0,0%	0,0%	0,0%	28,6%	57,1%	0,0%	0,0%	0,0%	14,3%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	71,4%	0,0%	0,0%	100%	
<b>LATVIA</b>																											
Kraslava r. Talsu r.									0 0	1 0				1									1 1			1 1	
TOTAL	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	
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	50,0%	0,0%	0,0%	0,0%	50,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	100%	
<b>LITHUANIA</b>																											
Panevezio Utenos Vilniaus									0 0 0		1 2				1								1 3 2			1 3 2	
TOTAL	0	0	0	0	0	0	0	0	0	2	3	0	0	0	1	0	0	0	0	0	0	0	6	0	0	6	
PER CENT	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	33,3%	50,0%	0,0%	0,0%	0,0%	16,7%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	100,0%	0,0%	0,0%	100%	
<b>BELARUS</b>																											
Brest Gomel Grodno Minsk Mogelev Vitebsk	1 2 1 6 1 4		1 7 7 8 1 4		1 5 1 5 1 1					2 15 8 19 2 9	6 17 27 23 36 22		3 3 1 1 2 7		1 1 1 1 1									6 21 31 26 40 30			8 36 39 45 42 39
TOTAL	15	27	12	1	0	0	0	0	55	131	14	0	1	2	5	0	0	0	0	0	0	1	154	0	0	209	
PER CENT	7,2%	12,9%	5,7%	0,5%	0,0%	0,0%	0,0%	0,0%	26,3%	62,7%	6,7%	0,0%	0,5%	1,0%	2,4%	0,0%	0,0%	0,0%	0,0%	0,0%	0,0%	0,5%	73,7%	0,0%	0,0%	100%	

## 4.2 Rabies cases per country and administrative units, 3rd quarter 2010

01.07.10-30.09.10

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 mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer	other				subtotal
<b>ROMANIA</b>																										
Alba			1						1	4													4			5
Arges									0	2													2			2
Bihor									0	1													1			1
Bistrita-Nasaud	1								1	3													3			4
Botosani	1	1							2														0			2
Brasov									0	1													1			1
Buzau			1						1	1													1			2
Calarasi									0	3													3			3
Cluj									0	2													2			2
Constanta		2							2														0			2
Covasna					1				1	6													6			7
Dambovita									0	2													2			2
Galati									0	2													2			2
Gorj					1				1	4													4			5
Harghita		1							1	1													1			2
Hunedoara									0	1													1			1
Ialomita	1	1							2	1													1			3
Iasi			1						1														0			1
Maramures									0	1													1			1
Mehedinti	1								1														0			1
Mures									0	5													5			5
Neamt	2		3						5	1													1			6
Olt	3				1				4														0			4
Prahova									0	2													2			2
Salaj									0	1													1			1
Satu Mare									0	4													4			4
Sibiu									0	1													1			1
Suceava			1						1	1													1			2
Tulcea		2							2	1													1			3
Valcea	1		1						2	1													1			3
Vaslui						1			1														0			1
Vrancea									0	2			1			1							4			4
TOTAL	10	7	8	0	3	1	0	0	29	54	0	0	1	0	0	1	0	0	0	0	0	0	56	0	0	85
PER CENT	11.8%	8.2%	9.4%	0.0%	3.5%	1.2%	0.0%	0.0%	34.1%	63.5%	0.0%	0.0%	1.2%	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	65.9%	0.0%	0.0%	100%

## 4.2 Rabies cases per country and administrative units, 3rd quarter 2010

01.07.10-30.09.10

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 mustelids	other carnivores	wild boar	roe deer	red deer				fallow deer	other	subtotal
<b>RUSSIAN FEDERATION</b>																										
Adygeja resp.		1						1	1													1			2	
Astrahanskaja obl.	3	7			1		1	12				1										1	2		15	
Belgorodskaja obl.	12	11	1		1		1	26	15					1	2								18		44	
Brjanskaja obl.	4	6						10	56	5		1		1		1						1	65		75	
Cecenskaja resp.			1					1															0		1	
Cuvasskaja resp.								0	2														2		2	
Ivanovskaja obl.	3							3	4	1													5		8	
Jaroslavskaja obl.							1	1	4	1													5		6	
Kabardino-Balkanskaja resp.	1		1					2															0		2	
Kaliningradskaja obl.	2	1						3	5														5		8	
Kalmykija resp.								2															0		2	
Kaluzskaja obl.	2	2						4	5	3													8		12	
Karacaevo-Cerkesskaja resp.	1		1					2															0		2	
Krasnodarskij kr.	3	5	1				1	10	2						1								3		13	
Kurskaja obl.	1	2	1					4	3														3		7	
Lipeckaja obl.	4	3	5				1	13	12														12		25	
Marij El resp.	2	1						3	3														3		6	
Mordovija resp.			2					2	9														9		11	
Moskovskaja obl.	2	4						6	24	3					1								28		34	
Nizegorodskaja obl.	1	3	1		1		1	7	9														9		16	
Orlovskaja obl.	1	4	2					7	4														4		11	
Penzenskaja obl.	5	5	3		1			14	25					1	1							1	28		42	
Pskovskaja obl.		1						1	2	3		1											6		7	
Rjazanskaja obl.	1							1	1			1											1		2	
Rostovskaja obl.		3	3					6	4														4		10	
Saratovskaja obl.	3	1	2		1			7	5				1	2									8		15	
Severnaja Osetija-Alanija resp.	1		3					4								1							1		5	
Smolenskaja obl.		3						3	7	8													15		18	
Stavropol'skij kr.								0															0		0	
Tambovskaja obl.		2	1		1			4	12														12		16	
Tul'skaja obl.	2	2					1	5	5														5		10	
Tverskaja obl.	2	2						4	8	13													21		25	
Uljanovskaja obl.	5	1						6	1														1		7	
Vladimirska obl.	1	2						3	8														8		11	
Volgogradskaja obl.	2	3	1					6	1														1		7	
Voronezskaja obl.	2	18	2		2		3	27	7	1				1									9		36	
<b>TOTAL</b>	<b>66</b>	<b>95</b>	<b>31</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>9</b>	<b>210</b>	<b>244</b>	<b>38</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>302</b>	<b>0</b>	<b>1</b>	<b>513</b>
<b>PER CENT</b>	<b>12,9%</b>	<b>18,5%</b>	<b>6,0%</b>	<b>0,0%</b>	<b>1,6%</b>	<b>0,0%</b>	<b>1,8%</b>	<b>40,9%</b>	<b>47,6%</b>	<b>7,4%</b>	<b>0,0%</b>	<b>0,6%</b>	<b>0,2%</b>	<b>1,2%</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>0,6%</b>	<b>58,9%</b>	<b>0,0%</b>	<b>0,2%</b>	<b>100%</b>	

## 4.2 Rabies cases per country and administrative units, 3rd quarter 2010

01.07.10-30.09.10

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 mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer	other				subtotal	
<b>SERBIA</b>																											
Central Serbia									0	11														11			11
Vojvodina			1						1	4				1										5			6
<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>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>17</b>	
<b>PER CENT</b>	<b>0.0%</b>	<b>0.0%</b>	<b>5.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>5.9%</b>	<b>88.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>5.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>94.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100%</b>	
<b>POLAND</b>																											
Lubelskie									0	1													1			1	
Malopolskie	1	2	2						5	19				1									20			25	
Mazowieckie									0														0	1		1	
Podkarpackie									0	1													1			1	
Podlaskie									0														0	2		2	
Warminsko-Mazurskie									0														0	1		1	
Wielkopolskie									0														0	1		1	
Zachodniopomorskie									0														0	1		1	
<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>6</b>	<b>0</b>	<b>33</b>	
<b>PER CENT</b>	<b>3.0%</b>	<b>6.1%</b>	<b>6.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>15.2%</b>	<b>63.6%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>3.0%</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>18.2%</b>	<b>0.0%</b>	<b>100%</b>	
<b>SLOVENIA</b>																											
Podravska									0	2													2			2	
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	
<b>PER CENT</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100%</b>	
<b>SPAIN</b>																											
Spain							1		1														0	1		2	
<b>TOTAL</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>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>2</b>	
<b>PER CENT</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>50.0%</b>	<b>0.0%</b>	<b>50.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>50.0%</b>	<b>0.0%</b>	<b>100%</b>	
<b>MOLDOVA</b>																											
Moldova	7	5	20						32	4					1								5			37	
<b>TOTAL</b>	<b>7</b>	<b>5</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>37</b>	
<b>PER CENT</b>	<b>18.9%</b>	<b>13.5%</b>	<b>54.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>86.5%</b>	<b>10.8%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>2.7%</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>13.5%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100%</b>	
<b>MONTENEGRO</b>																											
Montenegro			1						1	13													13			14	
<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>13</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>13</b>	<b>0</b>	<b>0</b>	<b>14</b>	
<b>PER CENT</b>	<b>0.0%</b>	<b>0.0%</b>	<b>7.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>7.1%</b>	<b>92.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>92.9%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>100%</b>	

## 4.2 Rabies cases per country and administrative units, 3rd quarter 2010

01.07.10-30.09.10

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 mustelids	other carnivores	wild boar	roe deer	red deer	fallow deer	other				subtotal
<b>UKRAINE</b>																										
Bolynskaja o.	1	1		1					3	4													4			7
Cherkasskaja o.	1	2							3	2													2			5
Chernigovskaja o.	4	8	2						14	8	1				1								10			24
Chernovitskaja o.	1	2							3					2									2			5
Dnepropetrovskaja o.	4	10	6						20	3			1										4			24
Donetskaja o.	3	3			1				7	1					2								3		1	11
Ivano-Frankovskaja o.		1							1														0			1
Khar'kovskaja o.	3	9	1		1				14	7													7	1		22
Khersonskaja o.	8	8	1		1				18	4				1									5			23
Khmel'nitskaja o.	2	2	4						8	12													12			20
Kirovogradskaja o.	5	6	2		2				15	4													4			19
Kiyevskaja o.		3							3														0			3
Luganskaja o.	2	1	1						4	1													1			5
L'vovskaja o.	1	1							2														0			2
Nikolajevskaja o.	1	1							2	3													3			5
Odesskaja o.	4	2	1						7	4				3									7			14
Poltavskaja o.	1	3	3						7	1													1			8
Rovenskaja o.		1							1	2													2			3
Sumskaja o.	6	12	1						19	6	1												7			26
Ternopol'skaja o.		1							1	1													1		1	3
Vinnitskaja o.	2	4	5						11	9					3								12			23
Zakarpatskaja o.									0						1								1			1
Zaporozhskaja o.		7	3						10	14	4				1								19			29
Zhitomirskaja o.	5	2	5						12	7				1									9			21
<b>TOTAL</b>	<b>54</b>	<b>90</b>	<b>35</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>185</b>	<b>93</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>116</b>	<b>1</b>	<b>2</b>	<b>304</b>
<b>PER CENT</b>	<b>17,8%</b>	<b>29,6%</b>	<b>11,5%</b>	<b>0,3%</b>	<b>1,6%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>60,9%</b>	<b>30,6%</b>	<b>1,6%</b>	<b>0,3%</b>	<b>1,0%</b>	<b>0,3%</b>	<b>4,3%</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>38,2%</b>	<b>0,3%</b>	<b>0,7%</b>	<b>100%</b>
<b>FRANCE</b>																										
France									0														0	3		3
Franche-Comté									0														0	1		1
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>4</b>
<b>PER CENT</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>0,0%</b>	<b>100,0%</b>	<b>0,0%</b>	<b>100%</b>	



## 4.3 Trend tables

### 4.3.1 Comparison of the reporting quarter (III/2010) with the previous quarter (II/2010)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2010 (no.)	II 2010 (no.)	Difference	III 2010 (no.)	II 2010 (no.)	Difference	III 2010 (no.)	II 2010 (no.)	Difference	III 2010 (no.)	II 2010 (no.)	Difference	III 2010 (no.)	II 2010 (no.)	Difference
Albania															
Austria															
Belarus	209	168	41	154	102	52	55	66	-11						
Belgium															
Bosnia - Hercegovina	3	4	-1	3	3			1	-1						
Bulgaria	1	1					1	1							
Croatia	149	148	1	137	137		12	11	1						
Cyprus															
Czech Republic															
Denmark															
Estonia															
Finland															
France	4		4							4		4			
Germany	3		3							3		3			
Greece															
Hungary		2	-2		1	-1					1	-1			
Iceland															
Ireland															
Italy	7	67	-60	5	67	-62	2		2						
Latvia	2	6	-4	2	5	-3		1	-1						
Lithuania	6	8	-2	6	8	-2									
Luxembourg															
Macedonia															
Malta															
Moldova	37	68	-31	5	23	-18	32	45	-13						
Montenegro	14	22	-8	13	16	-3	1	6	-5						
Norway															
Poland	33	2	31	22	1	21	5	1	4	6		6			
Portugal															
Romania	85	107	-22	56	62	-6	29	45	-16						
Russian Federation	513	638	-125	302	303	-1	210	335	-125				1		1
Serbia	17	19	-2	16	16		1	3	-2						
Slovak Republic															
Slovenia	2	2		2	2										
Spain	2	1	1				1	1		1		1			
Sweden															
Switzerland + Lichtenstein															
The Netherlands	3	3								3	3				
Turkey*															
Ukraine	304	454	-150	116	161	-45	185	293	-108	1		1	2		2
United Kingdom															
<b>TOTAL</b>	<b>1394</b>	<b>1720</b>	<b>-326</b>	<b>839</b>	<b>907</b>	<b>-68</b>	<b>534</b>	<b>809</b>	<b>-275</b>	<b>18</b>	<b>4</b>	<b>14</b>	<b>3</b>	<b>0</b>	<b>3</b>

Wildlife: excluding bats

III/2010 (no.), II/2010 (no.): number of cases

Difference: no. of cases in III/2010 minus cases in II/2010

\* no data

#### 4.3.2 Comparison of the reporting quarter (III/2010) with the same quarter of the previous year (III/2009)

NAME	Total			Wildlife			Domestic animals			Bats			Human		
	III 2010 (no.)	III 2009 (no.)	Difference	III 2010 (no.)	III 2009 (no.)	Difference	III 2010 (no.)	III 2009 (no.)	Difference	III 2010 (no.)	III 2009 (no.)	Difference	III 2010 (no.)	III 2009 (no.)	Difference
Albania															
Austria															
Belarus	209	205	4	154	130	24	55	75	-20						
Belgium															
Bosnia - Hercegovina	3	6	-3	3	4	-1		2	-2						
Bulgaria	1	9	-8		7	-7	1	2	-1						
Croatia	149	134	15	137	126	11	12	8	4						
Cyprus															
Czech Republic															
Denmark															
Estonia		1	-1		1	-1									
Finland		1	-1								1	-1			
France	4	7	-3							4	7	-3			
Germany	3	2	1							3	2	1			
Greece															
Hungary		1	-1								1	-1			
Iceland															
Ireland															
Italy	7	11	-4	5	11	-6	2		2						
Latvia	2	19	-17	2	14	-12		5	-5						
Lithuania	6	19	-13	6	15	-9		4	-4						
Luxembourg			2												
Macedonia															
Malta															
Moldova	37	9	28	5	5		32	4	28						
Montenegro	14	4	10	13	3	10	1	1							
Norway															
Poland	33	1	32	22		22	5		5	6	1	5			
Portugal															
Romania	85	75	10	56	47	9	29	27	2		1	-1			
Russian Federation	513	502	11	302	313	-11	210	189	21				1		1
Serbia	17	29	-12	16	24	-8	1	5	-4						
Slovak Republic															
Slovenia	2	2		2	2										
Spain	2		2				1		1	1		1			
Sweden															
Switzerland + Lichtenstein															
The Netherlands	3	7	-4							3	7	-4			
Turkey*															
Ukraine	304	253	51	116	110	6	185	143	42	1		1	2		2
United Kingdom		1	-1								1	-1			
<b>TOTAL</b>	<b>1394</b>	<b>1298</b>	<b>98</b>	<b>839</b>	<b>812</b>	<b>27</b>	<b>534</b>	<b>465</b>	<b>69</b>	<b>18</b>	<b>21</b>	<b>-3</b>	<b>3</b>	<b>0</b>	<b>3</b>

Wildlife: excluding bats

III/2010 (no.), III/2009 (no.): number of cases

Difference: no. of cases in III/2010 minus cases in III/2009

\* no data

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Please inform the editor about changes  
of contact details!



# RABIES CASES IN EUROPE

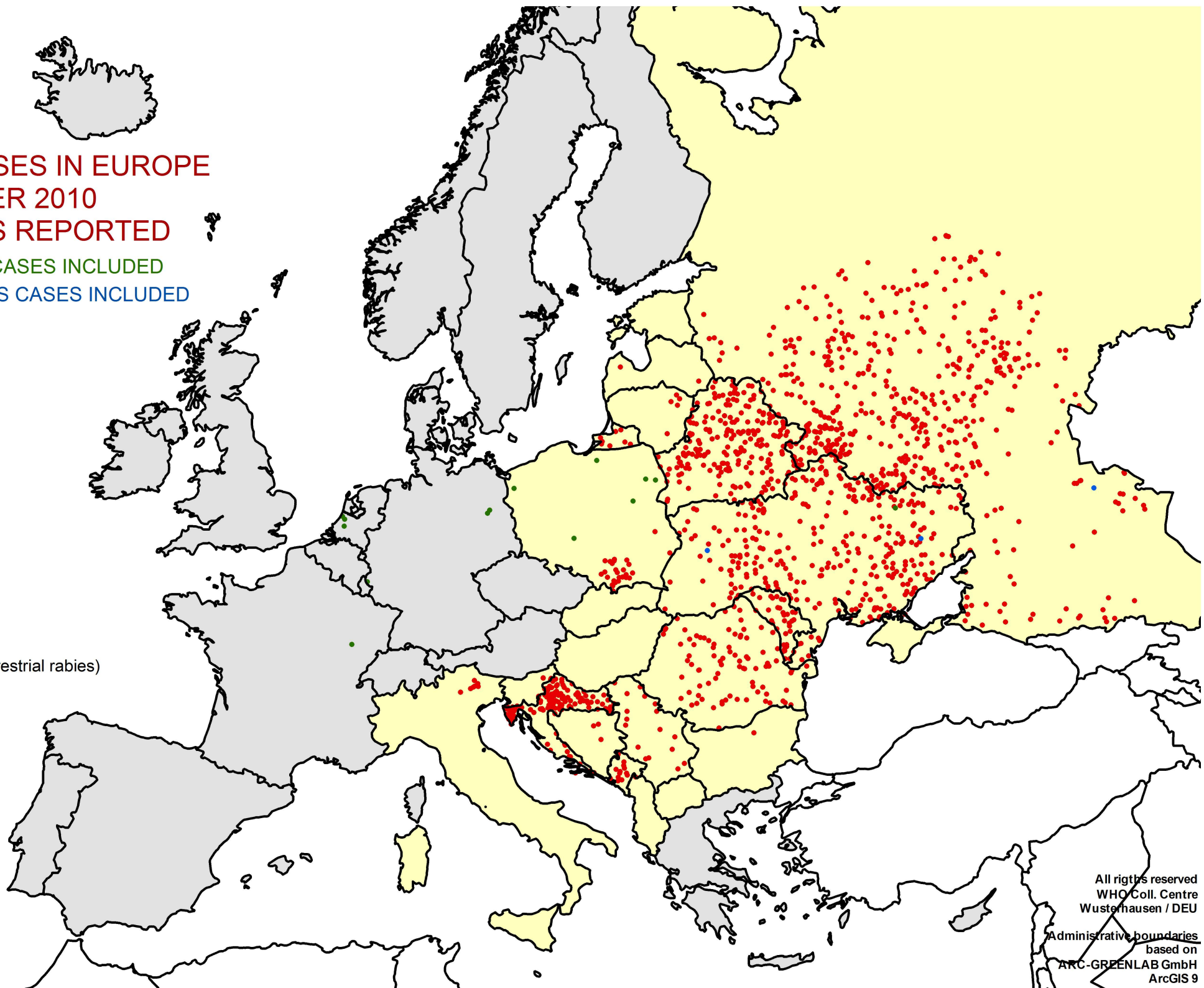
3rd QUARTER 2010

1394 CASES REPORTED

18 BAT RABIES CASES INCLUDED

3 HUMAN RABIES CASES INCLUDED

rabies free (terrestrial rabies)  
no data



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