

# RABIES BULLETIN EUROPE

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## 1. Introduction

This BULLETIN describes the reported rabies cases in Europe for the **Second Quarter 1994**, subsequently referred to as "*This Quarter*".

In SECTION 2 a summary of the rabies situation in general is given.

SECTION 3 (3.1-3.36) reflects the situation for individual countries.

In the Miscellaneous SECTION (4) under 4.1 rabies control measures during the more recent years in Estonia,

Latvia and Lithuania are described on. An article on the terms reinfection and residual foci is given in connection to rabies and oral vaccination of foxes against rabies under 4.2. And, under 4.3 the lethal infection caused by a cowpox-like virus in an immunosuppressed young man is reported.

The rabies case data are tabulated for the **Second Quarter 1994** in SECTION 5. The arrangement of countries follows practical considerat-

ions, not alphabetical ones.

SECTION 6 lists the official contributors to the BULLETIN.

The geographical distribution of rabies cases in Europe for the **Second Quarter 1994** is shown on maps of Russia, Turkey and Europe in the ANNEX. One map of Russia shows the distribution of cases in the first quarter 1994 (as addendum).

## 2. Summary of Rabies in Europe

During "*This Quarter*", 1773 rabies cases were reported in Europe. Of these were 1246 in wild animals (70.3% of total), 526 in domestic animals and 1 in a human.

Of the cases in wild animals 1080 were foxes, 6 wolves, 1 lynx, 37 raccoon dogs, 37 badgers, 18 stone martens, 20 pine martens, 9 polecats, 1 large weasel, 29 roe deer, 1 fallow deer, 1 insectivorous bat, 1 beaver, 1 hamster, 1 black rat, 1 Norwegian rat and 2 hares. Of the cases in domestic animals 170 were dogs (of which 64 were recorded in Turkey, a country with urban or dog-mediated rabies), 140 cats (including 1 stray cat), 10 horses, 1 donkey, 1 pig, 129 bovines, 73 sheep, 1 goat and 1

camel. These data are summarized in TABLES 1 and 3.

TABLE 2 summarizes the quarter 1 and 2 of 1994.

There has been a reduction of cases from 2534 (corrected figure for the 1st quarter 1994 - plus 5 cases Bulgaria, plus 1 case Moldova, plus 162 cases Russian Federation) in the previous quarter to 1773 during "*This Quarter*". It is the expected seasonal decrease in fox-mediated rabies countries and it was experienced during "*This Quarter*" in nearly all countries. The exceptions were Belgium, Italy, Latvia and Russia recording a slight increase of rabies cases due to more recently developed new foci.

Turkey noticed 5 more cases

compared to the previous quarter. However, it follows a different pattern as dog-mediated rabies country, where seasonal fluctuations are not that pronounced.

If the total figure for Europe of "*This Quarter*" is compared to the second quarter 1993 (1821 cases - corrected figure) no great difference can be noticed.

**Rabies-free countries** in Europe participating in the surveillance were: Finland, Greece, Iceland, Ireland, Norway, Portugal, the mainland and islands of Spain, Sweden, and the United Kingdom of Britain and Northern Ireland.

There were no cases reported during "*This Quarter*" from Denmark, Luxem-

bourg, the Netherlands, and the Spanish territory of North Africa, but the last indigenously acquired case (in terrestrial animals or bats) was less than

two years ago.

The status of the countries with data supplied irregularly can not be judged.

The one human rabies

case mentioned above occurred in the Russian Federation.

The one bat rabies case occurred in Germany.

### 3. Rabies in Individual Countries

#### 3.1 Albania ALB

No data.

#### 3.2 Austria AUT

by Helmut Schnabl

Of 6513 samples examined for rabies during "*This Quarter*", 50 cases (0.77%) were diagnosed rabid, 54 cases (51.9%) less than during the previous quarter (104). 45 cases occurred in wild animals (39 foxes, 3 badgers, 1 stone marten, 1 polecat, 1 roe deer), 5 in domestic animals (3 cats, 2 bovines).

The distribution of cases by Bundesländer (federal provinces) and Bezirke (districts) was as follows:

Burgenland: 2 cases in the Bezirke Neusiedl/See and Oberwart.

Niederösterreich: 2 cases in the Bezirke Gmünd and Waidhofen/Thaya.

Salzburg: 2 cases in the Bezirk Zell/See.

Steiermark: 1 case in the Bezirk Radkersburg.

Tirol: 30 cases (60% of total) in the Bezirke Imst, Innsbruck,

Kitzbühel, Kufstein, Reutte and Schwaz.

Vorarlberg: 13 cases in the Bezirke Bregenz and Dornbirn.

The Bundesländer Kärnten, Oberösterreich and Wien recorded no cases.

#### 3.3 Belgium BEL

by L. Hallet

During "*This Quarter*", 7 rabies cases in foxes were diagnosed in Belgium, all in the province of Luxembourg.

There were 3 cases at Florenville, 2 at the historical village of Muno (in April) and 1 at Chassepierre (in May).

Two cases occurred at Meix-Devant-Virton (in May and June). One case each was diagnosed at Bertrix, the historical village of Orgeo (April) and at Bouillon, the historical village of Dohan (May).

A campaign to vaccinate foxes was carried out in April 1994. It covered an area of 2553 km<sup>2</sup>, and 42,600 vaccine baits were distributed by helicopter. The infected areas were treated with an increased number of vaccine baits per km<sup>2</sup>.

#### 3.4 Bulgaria BUL

by T. Alexandrov

##### First Quarter 1994

During the first quarter 1994, 5 rabies cases were diagnosed in Bulgaria.

The cases occurred in the following provinces: Lovetch (1 fox, 1 dog), Vidin (1 goat), Stara Zagora (1 cat) and Rousse (1 dog).

##### Second Quarter 1994

During "*This Quarter*", only 1 calf was diagnosed rabid in the province of Stara Zagora.

#### 3.5 Belarus BYE

Data not yet received.

#### 3.6 Croatia CRO

by Mate Brstilo

During "*This Quarter*", 95 rabies cases were registered in Croatia in 31 municipalities. Of these 81 were in wild animals (85.3%) and 14 in domestic animals

(14.7%). Of the cases in wild animals 75 were foxes (78.9% of total), 1 wolf, 2 badgers, 1 doe, 1 polecat, and 1 marten. Of the cases in domestic animals 10 were cats (10.5%), 1 dog, 1 bovine, 1 goat and 1 pig.

Rabies was most frequently registered in the following municipalities: Opatija (14 cases), Zagreb (7 cases), Koprivnica, Rijeka, Vrbovec (6 cases each), Crikvenica and Varaždin (5 cases each). The majority of rabies cases were concentrated in the western part of Croatia, along the borders to Slovenia and Hungary.

Compared to the first quarter 1994, rabies was more frequently registered in cats in regions bordering to Bosnia and Herzegovina.

All Adriatic islands as well as major parts of the coastal area of the country remained free of rabies.

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### 3.7 Czech Republic CZH

by Oldrich Matouch

During "*This Quarter*", 1770 samples (1519 wild animals and 251 domestic animals) were examined for rabies in the Czech Republic. 55 (3.1%) of these were diagnosed rabid. 52 cases were in wild animals (46 foxes, 2 badgers, 3 martens, 1 deer) and 3 cases in domestic animals (2 cats, 1 dog).

There were 29 rabies cases less than in the same period of 1993.

In East Bohemia and North Moravia cases were more concentrated. A single fox rabies case occurred in the district Beroun (Central Bohemia) that had been rabies free for more than 2 years. A spot vaccination of 15 km radius has been carried out immediately in the area.

There was no reported case of human rabies.

The oral vaccination of foxes using Lysvulpen (SAD Bern vaccine) was carried out in April 1994. 727,200 vaccine doses were distributed in 48 districts covering an area of 45,400 km<sup>2</sup>.

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### 3.8 Denmark DEN

by Eric Stougaard

No case of rabies has been reported in Denmark during "*This Quarter*".

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### 3.9 Germany, Federal Republic DEU

by Winfried W. Müller and Thomas Müller

A total of 263 rabies cases was reported during "*This Quarter*", 116 cases less than during the previous quarter. The reduction is seasonal and was noticed in all infected areas. However, some isolated cases occurring after a relatively long period of freedom from rabies indicate, there were residual foci.

The federal states mostly affected by the disease were Rheinland-Pfalz, Nordrhein-Westfalen and Saarland with 88, 64 and 43 rabies cases respectively.

Of the 263 cases 200 were foxes (76% of total), 19 other wild animals and 44 domestic animals (2 dogs, 10 cats, 16 bovines, 14 sheep, 1 horse and 1 donkey).

There was one bat rabies case near the northern coast in Niedersachsen.

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### 3.10 Estonia EST

by Matti Nautras

During "*This Quarter*", 28 rabies cases were registered in Estonia, 3 cases less than during the previous quarter. 23 cases were in wild animals (15 foxes, 6 raccoon dogs, 1 badger, 1 hare), and 5 in domestic animals (3 dogs, 2 cats). The cases were scattered throughout the country.

---

### 3.11 Finland FIN

by Bengt Westerling

The country remained rabies-free.

#### Surveillance

A total of 32 animals were examined for rabies by immunofluorescence on brain tissue, all with negative results. The animals examined were: 23 foxes, 1 wolf, 1 lynx, 2 badgers, 3 dogs, 2 cats.

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**3.12 France FRA**


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by Michel F.A. Aubert

29 rabies cases were registered during "*This Quarter*", 13 less than during the previous quarter. 18 cases were diagnosed in foxes, 1 in a stone marten, 1 in a bovine and 9 in sheep. Only 7 départements (departments) were affected by the disease.

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**3.13 Greece GRE**


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by A. Katsaounis

The country remained rabies-free.

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**3.14 Hungary HUN**


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by Balint Kerekes

A total of 133 rabies cases were registered in Hungary during "*This Quarter*", 112 cases less than during the previous quarter and 37 less than during the second quarter 1993.

There were cases in all Komitates (provinces) of the country. Nevertheless, in the area where oral vaccination of foxes was practiced, along the border with Austria, cases have drastically diminished.

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**3.15 Iceland ICE**


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The country remained rabies-free.

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**3.16 Ireland IRE**


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The country remained rabies-free.

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**3.17 Italy ITA**


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by Santino Prosperi

During "*This Quarter*", 14 cases of rabies were reported in Italy. Two foxes were diagnosed rabid in the province of Trieste and 11 foxes and 1 badger in the province of Bolzano in Valle Aurina and in the Brennero areas. Both epidemics show no tendency of extension at this point.

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**3.18 Lithuania LTU**


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by K. Lukauskas and A. Dranseika

During "*This Quarter*", 11 rabies cases were diagnosed in 11 districts. The disease occurred in 5 dogs, 3 cats, 2 bovines and one fox.

During "*This Quarter*", more than 30 thousand dogs were vaccinated against rabies parenterally.

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**3.19 Luxembourg LUX**


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by Joseph Kremer

The Grand Duchy of Luxembourg recorded no rabies case during "*This Quarter*". The last case was recorded in June 1993.

To maintain the state of being rabies-free a further oral vaccination campaign is being planned for 19 to 24 September 1994 covering the whole country. In that case 49,000 "Rab-oral" vaccine baits are going to be distributed by helicopter (approx. 19 vaccine baits per 1 km<sup>2</sup>).

During "*This Quarter*", 9 foxes and 2 badgers were examined for rabies, but revealed negative results.

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**3.20 Latvia LVA**


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by Z. Andersons, J. Rimeicans and A. Dedziņš

During "*This Quarter*", 78 rabies cases in animals were registered in 21 districts. There were 13 cases more than during the previous quarter. 62 were diagnosed in wild animals (79.5% of total) and 16 in domestic animals. Of the wild animals 44 cases were foxes, 9 raccoon dogs, 5 badgers, 2 polecats, 1 pine marten, 1 lynx. Of the domestic animals 9 were dogs, 5 cats, 2 bovines.

The most affected districts were Saldus with 14 cases and Cēsis with 10 cases.

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**3.21 Moldova MLD**


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by I.V. Groushko

First Quarter 1994

During the first quarter 1994, a total of 24 samples were examined for rabies (13 dogs, 3 cats, 3 cattle, 3 foxes, 2 wild boars), of which 1 fox

(4.2%) was positive for rabies. The fox originated from the region of Kagul.

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### 3.22 Netherlands NET

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by G. Visser

No case of rabies has been noticed in the Netherlands during "*This Quarter*".

#### Surveillance

A total of 33 animals were examined for rabies during "*This Quarter*" (10 foxes, 1 dog, 1 polecat, 21 bats), but revealed negative results.

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### 3.23 Norway NOR

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by Gudbrand Bakken

The country remained rabies-free.

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### 3.24 Poland POL

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by Bogdan Twarowski

A total of 399 rabies cases were registered in Poland during "*This Quarter*", 142 cases less than during the previous quarter and 173 cases less than during the second quarter 1993.

Cases were distributed throughout the country except for 4 voivodeships (provinces). However, in the area where oral vaccination of foxes was practiced, along the western border with Germany, cases have drastically diminished.

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### 3.25 Portugal POR

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The country remained rabies-free.

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### 3.26 Romania ROM

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by Gheorghe Stratulat

During "*This Quarter*", 8 cases of rabies were registered in Romania, 2 in foxes and 6 in domestic animals (3 dogs, 1 cat, 1 bovine, 1 horse). The cases were isolated and occurred throughout the country.

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### 3.27 Russia RUS (European part only)

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V.A. Vedernikov, B.L. Cherkasskiy  
P.N. Pitalev, S.A. Kolomycev  
P.K. Shumilov and A.E. Khairushkov

#### First Quarter 1994

During the first quarter 1994, 161 rabies cases in animals were reported from the European part of Russia. Of the total number of cases 129 were in domestic animals - 19 dogs, 12 cats, 69 bovines, 7 horses, 21 sheep, 1 pig and 32 in wild animals - 27 foxes, 1 raccoon dog, 4 wolves.

The most affected areas of the European part of Russia were the republic of Bashkortostan with 31 cases and the Orenburg region with 26 cases.

There was 1 human case in the Tula region.

#### Second Quarter 1994

During "*This Quarter*", 172 rabies cases in animals were reported from the European part of Russia. Of the total number of cases 150 were in domestic animals - 27 dogs, 8 cats, 63 bovines, 4 horses, 47 sheep, 1 camel and 22 in wild animals - 16 foxes, 3 wolves, 1 beaver, 1 stone marten, 1 hamster.

Most affected areas of the European part of Russia were the republic of Kalmykiya with 52 cases and the republic of Bashkortostan with 19 cases.

There was 1 human case in the republic of Tatarstan.

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### 3.28 Slovak Republic SVK

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by Bohuslav Lovas and Jozef Sokol

A total of 151 rabies cases in animals was reported in the Slovak Republic during "*This Quarter*". Of these were 124 (82.1% of total) in wild animals (116 foxes, 3 roe deer, 1 pine marten, 1 polecat, 1 wolf, 1 black rat, 1 Norwegian rat) and 27 (17.9%) in domestic animals (18 dogs, 9 cats).

An oral vaccination campaign of foxes with 700,000 vaccine doses was carried out in April 1994. 300,000 vaccine baits "KAMARK" (SAD-Vnukovo strain) and 400,000 vaccine baits "LYSVULPEN" (SAD-Bern strain) were distributed in 37 districts covering an area of 47,000 km<sup>2</sup>, the total territory of the Slovak Republic.

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**3.29 Spain SPA**

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by Tomás Maté Maté

During "*This Quarter*", the mainland and islands of Spain remained rabies-free.

There were no cases reported from the Spanish territory of North Africa.

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**3.30 Slovenia SVN**

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by Armin Tomašič

Of 524 animals examined for rabies during "*This Quarter*", 149 (28.4%) were diagnosed rabid, 122 less than during the previous quarter. Of the 149 cases 127 were foxes, 4 badgers, 7 stone martens, 7 roe deer, 1 dog, 2 cats, 1 horse.

The cases were more concentrated in the western half of the country.

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**3.31 Sweden SWE**

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The country remained rabies-free.

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**3.32 Switzerland SWI**

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by Urs Breitenmoser

During "*This Quarter*", the Swiss Rabies Centre examined a total of 590 animals, of which 7.5% (44) were positive for rabies. In the previous quarter 10.6% (100 out of 945) and in the second quarter of 1993, 5.2% (28 out of 539) had been recorded positive,

respectively. The cases of rabies observed in this quarter involved 27 red foxes, 7 badgers, 1 stone marten, 2 cats, 1 dog, 1 horse, 2 bovines, and 3 sheep. As in the previous quarters, the cases recorded came from the larger vicinity of Basel, in the north of Switzerland and from the northwestern part of the Jura Mountains.

4 bats (1 *Pipistrellus kuhli*, 2 *Pipistrellus pipistrellus*, 1 *Eptesicus serotinus*) were examined during the reporting period. None was found to be positive for rabies.

No one was known to have been bitten by a rabid animal. The number of people treated for non-bite exposures is not recorded.

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**3.33 Turkey TUR**

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by A. Nizamettin Güvener

During "*This Quarter*", 77 animal rabies cases were recorded in Turkey. All cases were in domestic animals (64 dogs, 2 cats, 10 bovines, 1 horse).

The province (Il) mostly affected was Istanbul with 28 cases. All other infected provinces recorded less than 7 cases.

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**3.34 Ukraine UKR**

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No data.

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**3.35 United Kingdom UNK**

---

by P.J. Thomas

The country remained rabies-free.

Surveillance1st and 2nd quarter 1994

Reports of suspect rabies outside quarantine were investigated on 13 occasions during the period, involving 7 dogs, 1 cat and 3 foxes, 1 squirrel and 1 imported cow. Biting, scratching or licking of humans was reported in 2 of these incidents. Veterinary staff resolved 2 incidents at the initial clinical investigation, one after 15 days isolation in a quarantine unit and the remaining 10 following examination of material submitted to the Central Veterinary Laboratory, Weybridge.

28 dogs, 31 cats died whilst in quarantine and in every case material was submitted to the Central Veterinary Laboratory, Weybridge, with negative results in all cases.

42 bats were examined for rabies during the period, all with negative results.

No cases of human rabies occurred during the period.

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**3.36 Yugoslavia YUG**

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by Dušan Jakovljević

8 rabies cases were reported during "*This Quarter*" from Yugoslavia, 1 in Montenegro (1 fox), 4 in Serbia (3 foxes, 1 dog) and 3 in Vojvodina (1 fox, 1 dog, 1 cat).



## 4. MISCELLANEOUS ARTICLES

### 4.1 Rabies Control in Baltic countries

Following suggestions made during several WHO consultations and meetings,<sup>1</sup> the WHO Regional Office for Europe and the WHO Veterinary Public Health Unit have fostered rabies control and prevention in Baltic countries. A WHO Workshop on Prevention and Control of Rabies in Baltic Countries was organized in Tallinn, Estonia, on 14 and 15 February 1994.<sup>2</sup>

The main purpose of the workshop was to assess the rabies situation and to evaluate current approaches and techniques as well as future demands for rabies prevention and control in humans and animals in Estonia, Latvia and Lithuania.

Rabies has been endemic in Estonia, Latvia and Lithuania for many years. Six persons have died in the last 10 years. In addition, each year 130-190 persons per 100 000 population seek medical assistance after contact with rabies-suspect animals. This causes considerable public spending. The number of consultations has increased in the 3 countries over the last 5 years (Estonia by 20%, Latvia by 46%, Lithuania by 150%).

In all Baltic countries rabies treatment is conducted with a primary cell culture vaccine (multiple doses are administered over a month subcutaneously in the ab-

dominal region). Adverse effects are not uncommon.

A stock of donated modern cell culture vaccines will run out shortly. The annual demand for modern rabies vaccines for humans in Estonia, Latvia and Lithuania is estimated to be around 3,300, 27,500 and 25,400, respectively.

The rabies toll in the animal sector is substantial. Foxes and raccoon dogs are the main terrestrial reservoirs. Even though the number of stray dogs has apparently increased over the last decade, rabies has not spilled over to dogs.

The participants recommended that an internationally-supported 5-year programme ultimately leading to the self-reliance of Baltic countries as regards biologicals for rabies control be developed and implemented.

This programme should include:

- supply of modern cell culture vaccines for humans to meet urgent needs;
- training and education of specialists in vaccine production, rabies treatment and diagnosis;
- oral immunization of wildlife against rabies.

<sup>1</sup>[WHO Consultation on Vaccine Modernization in Baltic Countries, October 1992, Riga, Latvia (report EUR/ICP/EPI 030/A); WHO/Mérieux Foundation/OIE Seminar on Management and International Cooperation in Veterinary Programmes, June 1993, Annecy, France; WHO Consultation on Zoonoses Control in Eastern European Countries, December 1993, Berlin, Germany (report WHO/CDS/VP/93.127).]

<sup>2</sup>[Report of the WHO Workshop on Prevention and Control of Rabies in Baltic Countries, Tallinn, Estonia, 14-15 February (WHO/CDS/VP/94.133).]

(Taken from *Weekly Epidemiological Record, WHO Geneva*, 69, 267-268, 1994)

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## 4.2 REINFECTIONS and RESIDUAL FOCI in Connection to Rabies and Oral Vaccination of Foxes against Rabies

by W.W. Müller

WHO Collaborating Centre for Rabies Surveillance and Research,  
Tübingen/Germany

At times we need definitions which may help us for certain purposes. There exists for a long time a WHO proposal in use to define the freedom of rabies in a country. It says: a country is **rabies-free** if no case of indigenously acquired rabies has been confirmed in humans or any animal species (terrestrial or bat) at any time during the previous two years. Conversely, an area can be considered to be rabies-infected if an indigenously acquired rabies infection has been confirmed in human or any animal at any time during the previous two years.

The following remarks refer to the characteristics of the two terms reinfection and residual focus in the circumstances of countries in becoming rabies-free or maintaining the status of being rabies-free and note the implication in connection with the use of oral vaccination of foxes against rabies.

It is easy to refer to a country as being **reinfected** considering the above mentioned WHO definition on rabies-free. Especially, when the country bordering is infected and the first cases occur in areas of the state border. FIGURE 1 (page 11) shows the

experience being made in the rabies infected part of Belgium. After oral vaccination was effective, periods of no rabies and reinfected areas alternated. Of course, to declare the area as being reinfected one needs to know where the isolated cases occurred (see previous issues of this BULLETIN).

Reinfected areas can quickly establish widespread or fierce outbreaks. To prevent such a situation or reduce the chances of the development of fierce outbreaks a cordon vaccination is recommended (see this BULLETIN 3/93, page 17). Our example in FIGURE 1 shows that such a cordon vaccination was practiced (see arrows).

The example in FIGURE 2 shows an experience in the federal state of Brandenburg in Germany, an area similar in size to the formerly infected part of Belgium, which can be guessed from the number of rabies cases. Not indicated in FIGURE 2 are the bi-annual oral vaccination campaigns which were carried out. As much as the two figures and the circumstances resemble each other, the difference lies in the last case diagnosed in Brandenburg in June 1994.

This case was inves-

tigated and it was found that the last case in the closer vicinity was registered 2 years ago. In the meantime 224 foxes were examined for rabies in the area but revealed negative results. Further examination of 337 foxes after the rabies case were negative as well.

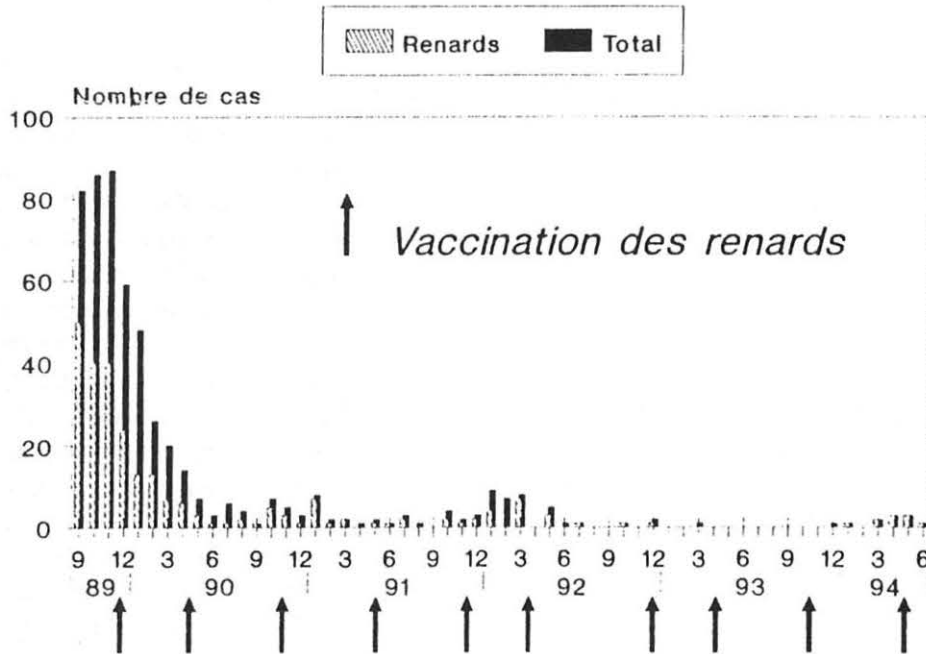
Considering the previous case distribution in the vicinity of the present case (see previous issues of this BULLETIN) we must call it a **residual focus** in the true sense.

And what are the implications of this residual focus in connection to a strategy on oral vaccination of foxes against rabies? It clearly implies that the vaccination after the last case in an area needs to be repeated for at least another 2 years to reach the goal of eradicating the disease.

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FIGURE 1

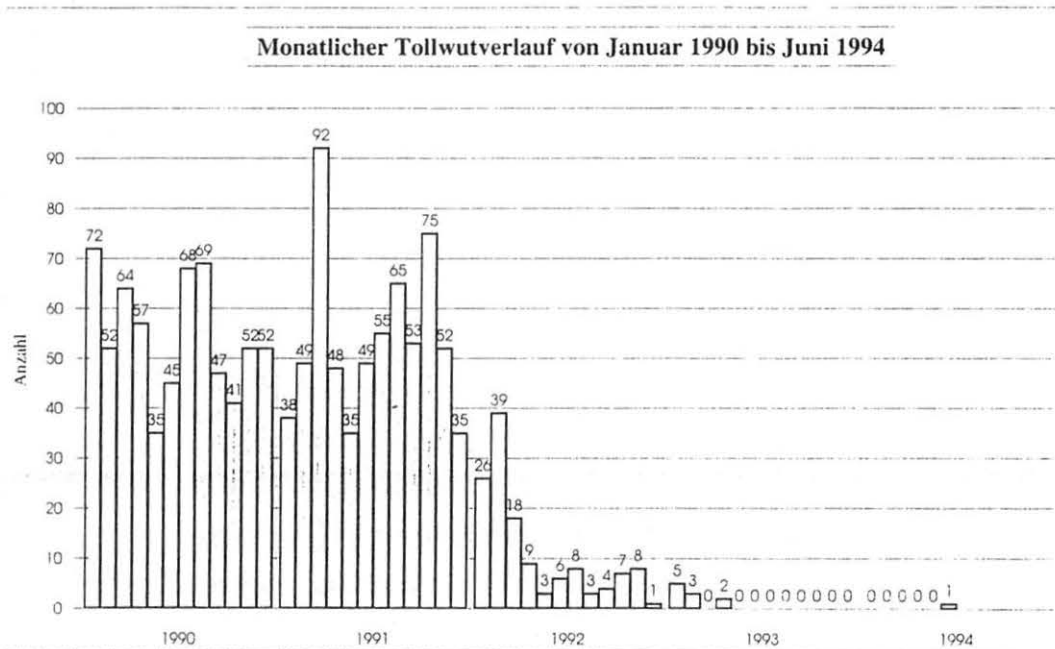
# RAGE-EVOLUTION MENSUELLE



Source: Ministry of Agriculture and Forestry of Belgium

FIGURE 2

## Land Brandenburg



Source: WHO Collaborating Centre, Tübingen

### 4.3 Lethal Infection Caused by a Cowpox-like Virus in an Immunosuppressed Young Man

Recent discussions have taken place in Germany and neighbouring countries on a possible human death due to infection by a vaccinia virus-rabies glycoprotein (VRG) recombinant vaccine used in France for oral immunization of foxes against rabies. The information below aims at clarifying that this poxvirus case in a human being was unequivocally due to a cowpoxvirus, clearly differentiated from vaccinia, variola and monkeypox viruses:

In 1990-1991, an 18-year-old man (Lüdenscheid, Germany) was reported to have been infected with an orthopoxvirus which was transmitted by a cat. Transmission from the cat to this young man was confirmed by serological

methods and antigen differentiation. The patient had not been vaccinated against smallpox and was undergoing intensive immunosuppressant therapy for severe endogenous eczema combined with allergic bronchial asthma. A cyclic poxvirus disease developed with a generalized, partly confluent poxvirus exanthema disseminated over the body. The clinical symptoms were similar to a "*variola pustulosa haemorrhagica*". The young man died of a lung embolism in the course of intensive medical therapy.

The haemorrhagic character of the poxvirus pustules, with central necrosis (pox navel), was reproduced in rabbit skin and on chorioallantoic membranes. The infection

was unequivocally caused by a cowpoxvirus. The virus isolated from the patient could be identified and differentiated from variola, vaccinia and monkeypox virus by an antigen-capture ELISA based on several distinct monoclonal antibodies as well as by restriction enzyme analysis and genome mapping.

Worldwide, this is the only example where a human cowpoxvirus infection has had such a dramatic course with a lethal end. Contrary to this case, all other known cases of cowpox-like infections have shown a benign course, and lesions have healed within a few weeks.

*(Taken from Weekly Epidemiological Record, WHO Geneva, 69, 299, 1994)*

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**Rabies Case Data from Europe  
are tabulated on the following pages  
of Section 5**

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TABLE 1

EUR		EUROPE		2/94		RABIES CASES							1. 4.94 - 30. 6.94				
LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL		
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL	
ALB	ALBANIA	**						0						0	0		
AUT	AUSTRIA		3	2	-	-	-	5	39	3	2	1	-	45	50		
BEL	BELGIUM							0	7	-	-	-	-	7	7		
BUL	BULGARIA			1	-	-	-	1						0	1		
BYE	BELARUS	**						0						0	0		
CRO	CROATIA		10	1	-	1	1	14	75	2	2	1	1	81	95		
CZH	CZECH REPUBLIC		2					3	46	2	3	1	-	52	55		
DEN	DENMARK	*						0						0	0		
DEU	FED. REP. OF GERMANY		10	16	1	14	1	44	200	9	3	6	1	219	263		
EST	ESTONIA		2					5	15	1	-	-	7	23	28		
FIN	FINLAND	*						0						0	0		
FRA	FRANCE			1	-	9	-	10	18	-	1	-	-	19	29		
GRE	GREECE	*						0						0	0		
HUN	HUNGARY		27	10	-	-	-	48	83	-	1	1	-	85	133		
ICE	ICELAND	*						0						0	0		
IRE	IRELAND	*						0						0	0		
ITA	ITALY							0	13	1	-	-	-	14	14		
LTU	LITHUANIA		3	2	-	-	-	10	1	-	-	-	-	1	11		
LUX	LUXEMBOURG	*						0						0	0		
LVA	LATVIA		5	2	-	-	-	16	44	5	3	-	10	62	78		
MLD	MOLDOVA	**						0						0	0		
NET	NETHERLANDS	*						0						0	0		
NOR	NORWAY	*						0						0	0		
POL	POLAND		53	18	1	-	-	94	246	3	22	10	24	305	399		
POR	PORTUGAL	*						0						0	0		
ROM	ROMANIA		1	1	1	-	-	6	2	-	-	-	-	2	8		
RUS	RUSSIAN FEDERATION		8	63	4	47	1	150	16	-	1	-	5	22	173		
SPA	SPAIN	*						0						0	0		
SVK	SLOVAK REPUBLIC		9					27	116	-	2	3	3	124	151		
SVN	SLOVENIA		1		1	-	1	4	127	4	7	7	-	145	149		
SWE	SWEDEN	*						0						0	0		
SWI	SWITZERLAND + LIECHT		2	2	1	3	-	9	27	7	1	-	-	35	44		
TUR	TURKEY		2	10	1	-	-	77						0	77		
UKR	UKRAINE	**						0						0	0		
UNK	UNITED KINGDOM	*						0						0	0		
YUG	YUGOSLAVIA		1					3	5	-	-	-	-	5	8		
TOTAL			170	139	129	10	74	4	526	1080	37	48	30	51	1246	1	1773
PER CENT			9.6	7.8	7.3	0.6	4.2	0.2	29.7	60.9	2.1	2.7	1.7	2.9	70.3	0.1	100.0

\* NO CASES \*\* NO DATA

TABLE 2

EUR		EUROPE		1-2/94		RABIES CASES							1. 1.94 - 30.06.94				
LOCATION		DOMESTIC ANIMALS						WILD ANIMALS					HUMAN CASES	TOTAL			
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER			OTHERS	TOTAL	
ALB	ALBANIA	**						0						0	0		
AUT	AUSTRIA		7	6	1	-	-	14	118	13	2	5	2	140	154		
BEL	BELGIUM							0	10	-	-	-	-	10	10		
BUL	BULGARIA		2	1	1	-	1	5	1	-	-	-	-	1	6		
BYE	BELARUS	**						0						0	0		
CRO	CROATIA		7	14	3	-	5	30	247	2	3	2	2	256	286		
CZH	CZECH REPUBLIC		5	4	-	-	-	9	129	2	7	3	-	141	150		
DEN	DENMARK	*						0						0	0		
DEU	FED. REP. OF GERMANY		4	15	26	4	35	85	515	20	9	11	2	557	642		
EST	ESTONIA		9	6	-	-	1	16	30	1	1	-	11	43	59		
FIN	FINLAND	*						0						0	0		
FRA	FRANCE		-	1	4	-	9	14	55	-	2	-	-	57	71		
GRE	GREECE	*						0						0	0		
HUN	HUNGARY		26	48	21	-	1	96	278	-	2	2	-	282	378		
ICE	ICELAND	*						0						0	0		
IRE	IRELAND	*						0						0	0		
ITA	ITALY							0	20	2	2	-	-	24	24		
LTU	LITHUANIA		8	6	3	-	-	17	9	-	-	-	-	9	26		
LUX	LUXEMBOURG	*						0						0	0		
LVA	LATVIA		22	11	3	-	-	36	78	5	3	-	21	107	143		
MLD	MOLDOVA	1)						0	1	-	-	-	-	1	1		
NET	NETHERLANDS	*						0						0	0		
NOR	NORWAY	*						0						0	0		
POL	POLAND		51	94	34	3	-	182	627	3	36	28	62	758	940		
POR	PORTUGAL	*						0						0	0		
ROM	ROMANIA		5	2	4	1	-	12	8	-	-	-	-	8	20		
RUS	RUSSIAN FEDERATION		46	20	132	11	68	279	43	-	1	-	10	54	335		
SPA	SPAIN	*						0						0	0		
SVK	SLOVAK REPUBLIC		35	17	2	-	1	55	253	-	5	3	5	266	321		
SVN	SLOVENIA		2	5	3	1	-	12	374	10	9	15	-	408	420		
SWE	SWEDEN	*						0						0	0		
SWI	SWITZERLAND + LIECHT		1	3	3	1	7	15	110	15	2	2	-	129	144		
TUR	TURKEY		129	2	15	1	2	149						0	149		
UKR	UKRAINE	**						0						0	0		
UNK	UNITED KINGDOM	*						0						0	0		
YUG	YUGOSLAVIA		5	5	2	-	1	13	15	-	-	-	-	15	28		
TOTAL			357	261	262	23	131	5	1039	2921	73	86	71	115	3266	2	4307
PER CENT			8.3	6.1	6.1	0.5	3.0	0.1	24.1	67.8	1.7	2.0	1.6	2.7	75.8	0.0	100.0

\* NO CASES \*\*NO DATA 1) NO DATA FOR 2 ND QUARTER

TABLE 3

EUR		EUROPE		2/94		RABIES CASES 'OTHER ANIMAL SPECIES'										1. 4.94 - 30. 6.94	
LOCATION		OTHER DOMESTIC ANIMALS				OTHER WILD ANIMALS									TOTAL		
CODE	NAME	DONKEY	PIG	OTH.DOM. HERBIVOR.	CAT LIVI. WILD	WOLF	RACCOON DOG	LYNX	INSECTIV. BAT	BEAVER	HAMSTER	BLACK RAT	NORVEG. RAT	HARE			
CRO	CROATIA	-	1	-	-	1	-	-	-	-	-	-	-	-	2		
DEU	FED.REP. OF GERMANY	1	-	-	-	-	-	-	1	-	-	-	-	-	2		
EST	ESTONIA	-	-	-	-	-	6	-	-	-	-	-	-	1	7		
LVA	LATVIA	-	-	-	-	-	9	1	-	-	-	-	-	-	10		
POL	POLAND	-	-	-	-	1	22	-	-	-	-	-	-	1	24		
RUS	RUSSIAN FEDERATION	-	-	1	-	3	-	-	-	1	1	-	-	-	6		
SVK	SLOVAK REPUBLIC	-	-	-	-	1	-	-	-	-	-	1	1	-	3		
SVN	SLOVENIA	-	-	-	1	-	-	-	-	-	-	-	-	-	1		
TOTAL		1	1	1	1	6	37	1	1	1	1	1	1	2	55		
PER CENT		1.8	1.8	1.8	1.8	10.9	67.3	1.8	1.8	1.8	1.8	1.8	1.8	3.6	100.0		

2nd Quarter: April - June 1994

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R A B I E S   C A S E S																1. 4.94 - 30. 6.94	
LOCATION		D O M E S T I C   A N I M A L S						W I L D   A N I M A L S						HUMAN CASES	TOTAL		
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL	
<b>AUT            A U S T R I A</b>																	
107	NEUSIEDL AM SEE							0	1	-	-	-	-	1		1	
109	OBERWART	-	1	-	-	-	-	1						0		1	
309	GMUEND							0	1	-	-	-	-	1		1	
322	W A I D H O F E N   A N   D E R   T H A							0	1	-	-	-	-	1		1	
506	ZELL AM SEE							0	1	1	-	-	-	2		2	
615	RADKERSBURG							0	1	-	-	-	-	1		1	
702	IMST							0	7	-	-	-	-	7		7	
703	I N N S B R U C K - L A N D	-	-	1	-	-	-	1	2	-	-	-	-	2		3	
704	KITZBUEHEL							0	1	-	-	-	-	1		1	
705	KUFSTEIN							0	5	-	-	-	-	5		5	
708	REUTTE							0	6	-	-	-	-	6		6	
709	SCHWAZ	-	1	-	-	-	-	1	5	-	1	1	-	7		8	
802	BREGENZ	-	1	1	-	-	-	2	7	1	-	-	-	8		10	
803	DORNBIRN							0	1	1	1	-	-	3		3	
TOTAL		0	3	2	0	0	0	5	39	3	2	1	0	45	0	50	
PER CENT		0.0	6.0	4.0	0.0	0.0	0.0	10.0	78.0	6.0	4.0	2.0	0.0	90.0	0.0	100.0	
<b>CZH            C Z E C H   R E P U B L I C</b>																	
01	CENTRAL BOHEMIA							0	2	-	-	-	-	2		2	
03	WEST BOHEMIA							0	1	-	-	-	-	1		1	
04	NORTH BOHEMIA	-	2	-	-	-	-	2	12	-	1	-	-	13		15	
05	EAST BOHEMIA							0	23	2	-	1	-	26		26	
06	SOUTH MORAVIA							0	1	-	-	-	-	1		1	
07	NORTH MORAVIA	1	-	-	-	-	-	1	7	-	2	-	-	9		10	
TOTAL		1	2	0	0	0	0	3	46	2	3	1	0	52	0	55	
PER CENT		1.8	3.6	0.0	0.0	0.0	0.0	5.5	83.6	3.6	5.5	1.8	0.0	94.5	0.0	100.0	



R A B I E S   C A S E S															1. 4.94 - 30. 6.94	
LOCATION CODE    NAME		D O M E S T I C   A N I M A L S						W I L D   A N I M A L S						HUMAN CASES	TOTAL	
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL
<b>BEL    B E L G I U M</b>																
LX LUXEMBOURG							0	7	-	-	-	-	7		7	
TOTAL		0	0	0	0	0	0	7	0	0	0	0	7	0	7	
PER CENT		0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0	
<b>DEU    FEDERAL REPUBLIC OF GERMANY</b>																
01 SCHLESWIG-HOLSTEIN							0						0		0	
02 HAMBURG							0						0		0	
03 NIEDERSACHSEN							0	1	-	-	-	1	2		2	
04 BREMEN							0						0		0	
05 NORDRHEIN-WESTFALEN		-	3	1	-	2	1	7	52	2	1	2	-	57		64
06 HESSEN							0	10	-	-	-	1	-	11		11
07 RHEINLAND-PFALZ		-	3	11	1	10	-	25	55	3	2	3	-	63		88
08 BADEN-WUERTTEMBERG		-	-	1	-	1	-	2	14	2	-	-	-	16		18
09 BAYERN		-	1	-	-	1	-	2	29	2	-	-	-	31		33
10 SAARLAND		2	1	3	-	-	-	6	37	-	-	-	-	37		43
11 Berlin							0	1	-	-	-	-	1		1	
12 Brandenburg							0	1	-	-	-	-	1		1	
13 Mecklenb.-Vorpommern							0						0		0	
14 Sachsen							0						0		0	
15 Sachsen-Anhalt		-	1	-	-	-	-	1					0		1	
16 Thuringen		-	1	-	-	-	-	1					0		1	
TOTAL		2	10	16	1	14	1	44	200	9	3	6	1	219	0	263
PER CENT		0.8	3.8	6.1	0.4	5.3	0.4	16.7	76.0	3.4	1.1	2.3	0.4	83.3	0.0	100.0

RABIES CASES																1. 4.94 - 30. 6.94	
LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL		
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL	
<b>BUL BULGARIA</b>																	
22	STARA ZAGORA	-	-	1	-	-	-	1						0	1		
<b>ROM ROMANIA</b>																	
01	ALBA	-	1	-	-	-	-	1						0	1		
04	BACAU	2	-	-	-	-	-	2						0	2		
18	GALATI							0	1	-	-	-	-	1	1		
20	GORJ	1	-	-	-	-	-	1						0	1		
31	SATU-MARE	-	-	1	-	-	-	1						0	1		
35	TELEORMAN	-	-	-	1	-	-	1	1	-	-	-	-	1	2		
<b>TOTAL</b>		<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>8</b>		
<b>PER CENT</b>		<b>37.5</b>	<b>12.5</b>	<b>12.5</b>	<b>12.5</b>	<b>0.0</b>	<b>0.0</b>	<b>75.0</b>	<b>25.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>25.0</b>	<b>100.0</b>		
<b>SVK SLOVAK REPUBLIC</b>																	
10	DISTRICT OF BRATISLAV							0	1	-	-	-	-	1	1		
11	WEST SLOVAKIA	1	-	-	-	-	-	1	23	-	-	-	-	23	24		
12	CENTRAL SLOVAKIA	3	4	-	-	-	-	7	43	-	-	-	-	43	50		
13	EAST SLOVAKIA	14	5	-	-	-	-	19	49	-	2	3	3	57	76		
<b>TOTAL</b>		<b>18</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>116</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>124</b>	<b>151</b>		
<b>PER CENT</b>		<b>11.9</b>	<b>6.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>17.9</b>	<b>76.8</b>	<b>0.0</b>	<b>1.3</b>	<b>2.0</b>	<b>2.0</b>	<b>82.1</b>	<b>100.0</b>		

CRO

CROATIA

RABIES CASES

1. 4.94 - 30. 6.94

LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL	
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL
004	BJELOVAR							0	2	-	-	-	-	2		2
007	BUZET							0	1	-	-	-	-	1		1
009	CRIKVENICA							0	5	-	-	-	-	5		5
011	CAKOVEC							0	3	-	-	-	-	3		3
018	DRNIS		2	-	-	-	-	2						0		2
034	JASTREBARSKO	-	1	-	-	-	-	1	2	-	-	-	-	2		3
036	KARLOVAC							0	1	1	-	-	-	2		2
040	KOPRIVNICA	1	-	-	-	-	-	1	5	-	-	-	-	5		6
043	KRAPINA							0	2	-	-	-	-	2		2
046	KUTINA							0	2	-	-	-	-	2		2
047	LABIN							0	1	-	-	-	-	1		1
054	NOVI MAROF	-	-	-	-	1	-	1						0		1
057	OGULIN							0	3	-	-	-	-	3		3
058	OMIS	-	1	-	-	-	-	1	1	-	-	-	-	1		2
059	OPATIJA							0	13	-	1	-	-	14		14
062	OTOCAC							0	2	-	-	-	-	2		2
063	OZALJ							0	1	-	-	-	-	1		1
066	PAZIN							0	2	-	-	-	-	2		2
068	PODRAVSKA SLATINA	-	1	-	-	-	-	1						0		1
070	PREGRADA							0	1	-	-	-	-	1		1
073	RIJEKA	-	1	-	-	-	-	1	3	-	-	1	1	5		6
075	SENJ							0	1	-	-	-	-	1		1
076	SINJ							0	3	-	-	-	-	3		3
077	SISAK							0	3	-	-	-	-	3		3
081	SOLIN	-	2	1	-	-	-	3	1	-	-	-	-	4		4
085	TROGIR							0	1	-	-	-	-	1		1
087	VARAZDIN							0	5	-	-	-	-	5		5
089	VIROVITICA							0	-	-	1	-	-	1		1
092	VRBOVEC	-	1	-	-	-	-	1	5	-	-	-	-	5		6
101	ZUPANJA	-	-	-	-	-	1	1	1	-	-	-	-	1		2
102	GRAD ZAGREB	-	1	-	-	-	-	1	5	1	-	-	-	6		7
TOTAL		1	10	1	0	1	1	14	75	2	2	1	1	81	0	95
PER CENT		1.1	10.5	1.1	0.0	1.1	1.1	14.7	78.9	2.1	2.1	1.1	1.1	85.3	0.0	100.0

2nd Quarter: April - June 1994

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RABIES CASES																1. 4.94 - 30. 6.94	
LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL		
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL	
<b>EST ESTONIA</b>																	
01	Harjumaa							0	1	-	-	-	-	1		1	
03	Ida-Virumaa							0	1	-	-	-	1	2		2	
05	Jaervamaa	1	1	-	-	-	-	2						0		2	
07	Laaene-Virumaa	1	1	-	-	-	-	2	2	1	-	-	2	5		7	
08	Polvamaa							0	1	-	-	-	1	2		2	
10	Raplamaa							0	3	-	-	-	-	3		3	
11	Saaremaa							0	5	-	-	-	1	6		6	
12	Tartumaa	1	-	-	-	-	-	1	1	-	-	-	1	2		3	
13	Valgamaa							0	-	-	-	-	1	1		1	
15	Vorumaa							0	1	-	-	-	1	1		1	
<b>TOTAL</b>		<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>15</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>23</b>	<b>0</b>	<b>28</b>	
<b>PER CENT</b>		<b>10.7</b>	<b>7.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>17.9</b>	<b>53.6</b>	<b>3.6</b>	<b>0.0</b>	<b>0.0</b>	<b>25.0</b>	<b>82.1</b>	<b>0.0</b>	<b>100.0</b>	
<b>LTU LITHUANIA</b>																	
41	Vilniaus	-	-	1	-	-	-	1						0		1	
43	Zarasu	-	1	-	-	-	-	1						0		1	
46	Jonavos							0	1	-	-	-	-	1		1	
53	Kedainiu	1	-	-	-	-	-	1						0		1	
66	Panevezio	-	1	-	-	-	-	1						0		1	
67	Pasvalio	-	1	-	-	-	-	1						0		1	
69	Prienu	1	-	-	-	-	-	1						0		1	
81	Ukmerges	1	-	-	-	-	-	1						0		1	
88	Silutes	-	-	1	-	-	-	1						0		1	
91	Siauliu	1	-	-	-	-	-	1						0		1	
94	Jurbarko	1	-	-	-	-	-	1						0		1	
<b>TOTAL</b>		<b>5</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>11</b>	
<b>PER CENT</b>		<b>45.5</b>	<b>27.3</b>	<b>18.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>90.9</b>	<b>9.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>9.1</b>	<b>0.0</b>	<b>100.0</b>	

R A B I E S   C A S E S															1. 4.94 - 30. 6.94	
LOCATION		D O M E S T I C   A N I M A L S						W I L D   A N I M A L S						HUMAN CASES	TOTAL	
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL
<b>FRA   F R A N C E</b>																
08	ARDENNES	-	-	-	-	2	-	2	2	-	-	-	-	2		4
25	DOUBS							0	4	-	1	-	-	5		5
52	MARNE (HAUTE)							0	1	-	-	-	-	1		1
54	MEURTHE ET MOSELLE	-	-	1	-	5	-	6	4	-	-	-	-	4		10
68	RHIN (HAUT)							0	1	-	-	-	-	1		1
70	SAONE (HAUTE)							0	1	-	-	-	-	1		1
88	VOSGES	-	-	-	-	2	-	2	5	-	-	-	-	5		7
<b>TOTAL</b>		0	0	1	0	9	0	10	18	0	1	0	0	19	0	29
<b>PER CENT</b>		0.0	0.0	3.4	0.0	31.0	0.0	34.5	62.1	0.0	3.4	0.0	0.0	65.5	0.0	100.0
<b>ITA   I T A L Y</b>																
34	TRIESTE E GORIZIA							0	2	-	-	-	-	2		2
39	BOLZANO							0	11	1	-	-	-	12		12
<b>TOTAL</b>		0	0	0	0	0	0	0	13	1	0	0	0	14	0	14
<b>PER CENT</b>		0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.9	7.1	0.0	0.0	0.0	100.0	0.0	100.0
<b>SWI   S W I T Z E R L A N D   A N D   L I E C H T E N S T E I N</b>																
01	AARGAU							0	7	-	-	-	-	7		7
05	BASEL-LAND	1	-	1	-	1	-	3	9	2	1	-	-	12		15
06	BERN							0	4	2	-	-	-	6		6
17	SOLOTHURN	-	2	-	-	1	-	3	2	3	-	-	-	5		8
26	JURA	-	-	1	1	1	-	3	5	-	-	-	-	5		8
<b>TOTAL</b>		1	2	2	1	3	0	9	27	7	1	0	0	35	0	44
<b>PER CENT</b>		2.3	4.5	4.5	2.3	6.8	0.0	20.5	61.4	15.9	2.3	0.0	0.0	79.5	0.0	100.0

R A B I E S   C A S E S																1. 4.94 - 30. 6.94	
LOCATION		D O M E S T I C   A N I M A L S						W I L D   A N I M A L S						HUMAN CASES	TOTAL		
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL	
HUN      H U N G A R Y																	
01	BUDAPEST							0	3	-	-	-	-	3	3		
02	BARANYA	4	3	1	-	-	-	8	5	-	-	-	-	5	13		
03	BACS-KISKUN	-	-	1	-	-	-	1	3	-	1	-	-	4	5		
04	BEKES	-	1	-	-	-	-	1	5	-	-	-	-	5	6		
05	BORSOD-ABAUJ-ZEMPLEN	1	4	1	-	-	-	6	8	-	-	-	-	8	14		
06	CSONGRAD	-	1	-	-	-	-	1	2	-	-	-	-	2	3		
07	FEJER	-	-	-	-	-	-	0	5	-	-	-	-	5	5		
08	GYOER-SOPRON	-	2	-	-	-	-	2	1	-	-	-	-	1	3		
09	HAJDU-BIHAR	-	1	-	-	-	-	1	5	-	-	-	-	5	6		
10	HEVES	-	-	-	-	-	-	0	8	-	-	-	-	8	8		
11	KOMAROM	-	2	-	-	-	-	2	4	-	-	-	-	4	6		
12	NOGRAD	-	1	2	-	-	-	3	1	-	-	-	-	1	4		
13	PEST	3	2	1	-	-	-	6	9	-	-	-	-	9	15		
14	SOMOgy	-	5	-	-	-	-	5	10	-	-	-	-	10	15		
15	SZABOLCS-SZATMAR	-	4	1	-	-	-	5	2	-	-	-	-	2	7		
16	SZOLNOK	1	-	2	-	-	-	3	2	-	-	-	-	2	5		
17	TOLNA	2	-	-	-	-	-	2	5	-	-	-	-	5	7		
18	VAS	-	-	1	-	-	-	1	1	-	-	-	-	1	2		
19	VESZPREM	-	-	-	-	-	-	0	2	-	-	-	-	2	2		
20	ZALA	-	1	-	-	-	-	1	2	-	-	1	-	3	4		
TOTAL		11	27	10	0	0	0	48	83	0	1	1	0	85	0	133	
PER CENT		8.3	20.3	7.5	0.0	0.0	0.0	36.1	62.4	0.0	0.8	0.8	0.0	63.9	0.0	100.0	
YUG      Y U G O S L A V I A																	
20	SR CRNA GORA							0	1	-	-	-	-	1	1		
60	SR SRBIJA	1	-	-	-	-	-	1	3	-	-	-	-	3	4		
61	SAP VOJVODINA	1	1	-	-	-	-	2	1	-	-	-	-	1	3		
TOTAL		2	1	0	0	0	0	3	5	0	0	0	0	5	0	8	
PER CENT		25.0	12.5	0.0	0.0	0.0	0.0	37.5	62.5	0.0	0.0	0.0	0.0	62.5	0.0	100.0	

LVA		LATVIA											RABIES CASES				1. 4.94 - 30. 6.94	
LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL			
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL		
01	Aizkraukle	1	1	-	-	-	-	2	1	-	-	-	-	1	3			
02	Aluksne	-	-	-	-	-	-	0	1	-	-	-	-	1	1			
05	Cesis	-	-	-	-	-	-	0	8	-	-	-	2	10	10			
06	Daugavpils	-	1	-	-	-	-	1	-	-	-	-	-	0	1			
07	Dobele	-	-	-	-	-	-	0	1	-	-	-	1	2	2			
08	Gulbene	-	-	-	-	-	-	0	1	-	-	-	1	2	2			
09	Jekabpils	-	-	-	-	-	-	0	1	-	-	-	-	1	1			
12	Kuldiga	-	-	-	-	-	-	0	1	-	-	-	-	1	1			
13	Liepaja	-	1	-	-	-	-	1	4	1	-	-	1	6	7			
14	Limbazi	-	-	-	-	-	-	0	2	-	-	-	-	2	2			
15	Ludza	1	-	-	-	-	-	1	-	-	-	-	-	0	1			
16	Madona	-	-	-	-	-	-	0	1	-	-	-	-	1	1			
17	Ogre	-	-	-	-	-	-	0	2	2	-	-	-	4	4			
18	Preiļi	-	-	-	-	-	-	0	1	-	-	-	-	1	1			
19	Rezekne	1	-	-	-	-	-	1	-	-	-	-	-	0	1			
20	Rīga	1	-	-	-	-	-	1	7	-	-	-	1	8	9			
21	Seldus	3	1	2	-	-	-	6	2	1	3	-	2	8	14			
22	Talsi	1	1	-	-	-	-	2	3	-	-	-	1	4	6			
23	Tukums	-	-	-	-	-	-	0	4	1	-	-	1	6	6			
24	Valke	-	-	-	-	-	-	0	1	-	-	-	-	1	1			
25	Valmiera	1	-	-	-	-	-	1	3	-	-	-	-	3	4			
TOTAL		9	5	2	0	0	0	16	44	5	3	0	10	62	0	78		
PER CENT		11.5	6.4	2.6	0.0	0.0	0.0	20.5	56.4	6.4	3.8	0.0	12.8	79.5	0.0	100.0		

2nd Quarter: April - June 1994

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POL		RABIES CASES											1. 4.94 - 30. 6.94			
LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL	
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL
01	WARSZAWA	1	4	1	-	-	-	6	3	-	2	-	-	5		11
05	BIALYSTOK	1	-	2	-	-	-	3	9	-	-	-	1	10		13
07	BIELSKO-BIALA	-	1	-	-	-	-	1	6	-	3	-	-	9		10
09	BYDGOSZCZ	1	1	1	-	-	-	3	6	-	1	1	-	8		11
11	CHELM	1	-	-	-	-	-	1	-	-	-	-	-	0		1
15	CZESTOCHOWA	-	-	-	-	-	-	0	2	-	-	-	-	2		2
17	ELBLAG	-	3	-	-	-	-	3	5	-	-	-	2	7		10
19	GDANSK	3	8	2	-	-	-	13	27	-	2	1	3	33		46
21	GORZOW	-	-	1	-	-	-	1	1	-	-	-	-	1		2
23	JELENIA GORA	-	-	-	-	-	-	0	1	-	-	-	-	1		1
25	KALISZ	-	-	-	-	-	-	0	3	-	-	-	-	3		3
27	KATOWICE	-	2	-	-	-	-	2	2	-	1	-	-	3		5
29	KIELCE	-	-	-	-	-	-	0	3	-	1	-	-	4		4
31	KONIN	-	1	-	-	-	-	1	2	-	-	-	-	2		3
33	KOSZALIN	-	3	1	-	-	-	4	6	1	-	2	2	11		15
37	KROSNO	-	-	-	-	-	-	0	12	-	2	1	1	16		16
39	LEGNICA	-	-	-	-	-	-	0	4	-	-	-	-	4		4
41	LESZNO	1	2	-	-	-	-	3	9	-	1	-	-	10		13
43	LUBLIN	-	-	-	-	-	-	0	1	-	-	-	-	1		1
45	LOMZA	-	1	-	-	-	-	1	1	-	-	-	-	1		2
47	LODZ	-	3	-	-	-	-	3	6	-	-	-	-	6		9
49	NOWY SACZ	-	-	-	-	-	-	0	2	-	-	-	-	2		2
51	OLSZTYN	2	1	1	-	-	-	4	5	-	-	-	1	6		10
53	OPOLE	3	3	1	-	-	-	7	18	1	-	1	1	21		28
57	PILA	-	-	-	-	-	-	0	8	-	2	-	-	10		10
59	PIOTRKOW TRYB	2	-	-	-	-	-	2	2	-	-	-	-	2		4
61	PLOCK	-	1	-	-	-	-	1	2	-	1	-	-	3		4
63	POZNAN	-	1	-	-	-	-	1	8	-	1	-	-	9		10
65	PRZEMYSL	-	-	-	-	-	-	0	2	-	2	-	-	4		4
67	RADOM	-	-	1	-	-	-	1	1	-	1	-	-	2		3
69	RZESZOW	-	-	-	-	-	-	0	6	-	1	-	-	6		6
71	SIEDLCE	1	-	-	-	-	-	1	1	1	-	-	-	1		2
73	SIERADZ	-	-	-	-	-	-	0	2	-	-	-	-	2		2
75	SKIERNIEWICE	-	-	-	-	-	-	0	1	-	-	-	-	1		1
77	SLUPSK	1	4	1	-	-	-	6	13	-	-	2	-	15		21
79	SUWALKI	2	1	4	1	-	-	8	13	-	-	-	9	22		30
81	SZCZECIN	-	-	-	-	-	-	0	2	-	-	-	1	3		3
83	TARNOBRZEG	-	4	-	-	-	-	4	10	-	1	-	1	12		16
85	TARNOW	1	-	1	-	-	-	2	-	-	-	2	1	3		5
87	TORUN	-	4	1	-	-	-	5	10	-	1	-	-	11		16
89	WALBRZYCH	2	2	1	-	-	-	4	2	-	-	-	-	2		6
91	WLOCLAWEK	-	-	-	-	-	-	0	5	-	-	-	-	5		5
93	WROCLAW	-	3	-	-	-	-	3	21	-	-	-	-	21		24
95	ZAMOSC	-	-	-	-	-	-	0	4	-	-	-	1	5		5
TOTAL		22	53	18	1	0	0	94	246	3	22	10	24	305	0	399
PER CENT		5.5	13.3	4.5	0.3	0.0	0.0	23.6	61.7	0.8	5.5	2.5	6.0	76.4	0.0	100.0



RUS		RUSSIAN FEDERATION											R A B I E S C A S E S				1. 4.94 - 30. 6.94	
LOCATION		D O M E S T I C A N I M A L S							W I L D A N I M A L S					HUMAN CASES	TOTAL			
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL		
08	Pskov Region	1	-	1	-	-	-	2	4	-	-	-	2	6		8		
12	Tver Region	2	-	-	-	-	-	2	1	-	-	-	1	2		4		
15	Moscow Region	2	-	5	-	-	-	7	2	-	-	-	-	2		9		
16	Oryol Region	1	-	1	-	-	-	2						0		2		
18	Smolensk Region							0	2	-	-	-	-	2		2		
19	Tula Region	-	1	-	-	-	-	1						0		1		
26	Belgorod Region	1	-	-	-	-	-	1						0		1		
27	Voronezh Region	1	1	4	-	-	-	6	1	-	-	-	-	1		7		
28	Kursk Region							0	1	-	1	-	-	2		2		
29	Lipetsk Region							0	1	-	-	-	-	1		1		
31	Astrakhan Region	1	-	7	1	2	1	12	-	-	-	-	2	2		14		
32	Volgograd Region	1	-	2	-	-	-	3						0		3		
33	Samara Region	3	-	2	-	-	-	5						0		5		
34	Penza Region	-	-	2	-	-	-	2						0		2		
35	Saratov Region	1	1	1	-	-	-	3						0		3		
36	Ulyanovsk Region	-	-	2	-	-	-	2						0		2		
37	Republic of Kalmykiya	1	1	6	-	44	-	52						0		52		
38	Republic of Tatarstan							0						0	1	1		
40	Stavropol Territory	2	-	13	1	1	-	17						0		17		
41	Rostov Region	1	1	4	-	-	-	6						0		6		
42	Orenburg Region	5	3	2	-	-	-	10	1	-	-	-	-	1		11		
44	Republic of Bashkorto	4	-	11	1	-	-	16	3	-	-	-	-	3		19		
46	Kaliningrad Region	-	-	-	1	-	-	1						0		1		
TOTAL		27	8	63	4	47	1	150	16	0	1	0	5	22	1	173		
PER CENT		15.6	4.6	36.4	2.3	27.2	0.6	86.7	9.2	0.0	0.6	0.0	2.9	12.7	0.6	100.0		

2nd Quarter: April - June 1994

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SVN		SLOVENIA											RABIES CASES				1. 4.94 - 30. 6.94	
LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL			
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL		
01	AJDOVSCINA	-	1	-	-	-	-	1	1	-	-	-	-	1		2		
02	BREZICE							0	7	-	-	-	-	7		7		
04	CERKNICA							0	6	-	3	-	-	9		9		
08	GORNJA RADGONA							0	2	-	-	-	-	2		2		
11	IDRIJA							0	3	1	-	-	-	4		4		
12	ILIRSKA BISTRICA							0	8	-	-	-	-	8		8		
14	JESENICE							0	7	1	-	-	-	8		8		
15	KAMNIK							0	1	-	-	-	-	1		1		
16	KOCEVJE							0	9	-	-	-	-	9		9		
17	KOPER							0	2	-	-	-	-	2		2		
18	KRANJ							0	12	1	1	-	-	14		14		
19	KRSKO							0	1	-	-	-	-	1		1		
21	LENART							0	4	-	-	-	-	4		4		
27	LJUBLJANA SSKA							0	4	-	-	-	-	4		4		
28	LJUBLJANA VIC RUDNIK							0	17	-	-	1	-	18		18		
30	LOGATEC							0	2	-	-	-	-	2		2		
35	MOZIRJE							0	1	-	-	-	-	1		1		
36	MURSKA SOBOTA							0	3	-	-	-	-	3		3		
37	NOVA GORICA	-	-	-	1	-	-	1	1	-	-	-	-	1		2		
38	NOVO MESTO							0	1	-	-	-	-	1		1		
39	ORMOZ							0	1	-	-	-	-	1		1		
41	POSTOJNA							0	1	-	-	-	-	1		1		
44	RADOVLJICA	1	-	-	-	-	-	1	3	-	-	3	-	6		7		
46	RIBNICA							0	3	-	-	-	-	3		3		
48	SEZANA	-	-	-	-	-	1	1	8	1	1	2	-	12		13		
53	SKOFJA LOKA							0	13	-	2	1	-	16		16		
54	SMARJE PRI JELSAH							0	1	-	-	-	-	1		1		
55	TOLMIN							0	1	-	-	-	-	1		1		
60	VRHNIKA							0	4	-	-	-	-	4		4		
TOTAL		1	1	0	1	0	1	4	127	4	7	7	0	145	0	149		
PER CENT		0.7	0.7	0.0	0.7	0.0	0.7	2.7	85.2	2.7	4.7	4.7	0.0	97.3	0.0	100.0		

TUR		TURKEY											RABIES CASES				1. 4.94 - 30. 6.94	
LOCATION CODE NAME		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL			
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL		
01	ADANA	4	-	1	-	-	-	5						0		5		
03	AFYON	1	-	-	-	-	-	1						0		1		
09	AYDIN	2	-	-	-	-	-	2						0		2		
10	BALIKESIR	4	-	2	-	-	-	6						0		6		
14	BOLU	2	-	-	-	-	-	2						0		2		
16	BURSA	1	-	-	-	-	-	1						0		1		
20	DENIZLI	1	-	-	-	-	-	1						0		1		
21	DIYARBAKIR	-	-	1	1	-	-	2						0		2		
23	ELAZIG	1	-	-	-	-	-	1						0		1		
27	GAZIANTEP	2	-	-	-	-	-	2						0		2		
32	ISPARTA	3	-	-	-	-	-	3						0		3		
34	ISTANBUL	26	-	2	-	-	-	28						0		28		
35	IZMIR	5	1	-	-	-	-	6						0		6		
41	KOCAELI	2	-	-	-	-	-	2						0		2		
43	KUETAHYA	-	1	-	-	-	-	1						0		1		
45	MANISA	1	-	1	-	-	-	2						0		2		
46	KAHRAMANMARAS	1	-	-	-	-	-	1						0		1		
47	MARDIN	1	-	1	-	-	-	2						0		2		
52	ORDU	1	-	-	-	-	-	1						0		1		
53	RIZE	1	-	-	-	-	-	1						0		1		
54	SAKARYA	3	-	1	-	-	-	4						0		4		
55	SAMSUN	1	-	-	-	-	-	1						0		1		
57	SINOP	1	-	-	-	-	-	1						0		1		
63	SANLIURFA	-	-	1	-	-	-	1						0		1		
TOTAL		64	2	10	1	0	0	77	0	0	0	0	0	0	0	77		
PER CENT		83.1	2.6	13.0	1.3	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0		

2nd Quarter: April - June 1994

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## Addendum 1st Quarter 1994

R A B I E S   C A S E S																Q1/94		1. 1.94 - 31. 3.94	
LOCATION CODE    NAME		D O M E S T I C   A N I M A L S						W I L D   A N I M A L S						HUMAN CASES	TOTAL				
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL			
<b>BUL</b> B U L G A R I A																			
04	VIDIN	-	-	-	-	1	-	1						0		1			
11	LOVETCH	1	-	-	-	-	-	1	1	-	-	-	-	1		2			
17	ROUSSE	1	-	-	-	-	-	1						0		1			
22	STARA ZAGORA	-	1	-	-	-	-	1						0		1			
<b>TOTAL</b>		<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>5</b>			
<b>PER CENT</b>		<b>40.0</b>	<b>20.0</b>	<b>0.0</b>	<b>0.0</b>	<b>20.0</b>	<b>0.0</b>	<b>80.0</b>	<b>20.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>20.0</b>	<b>0.0</b>	<b>100.0</b>			
<b>MLD</b> M O L D O V A																			
01 02	KAGUL							0	1	-	-	-	-	1		1			

Addendum 1st Quarter 1994

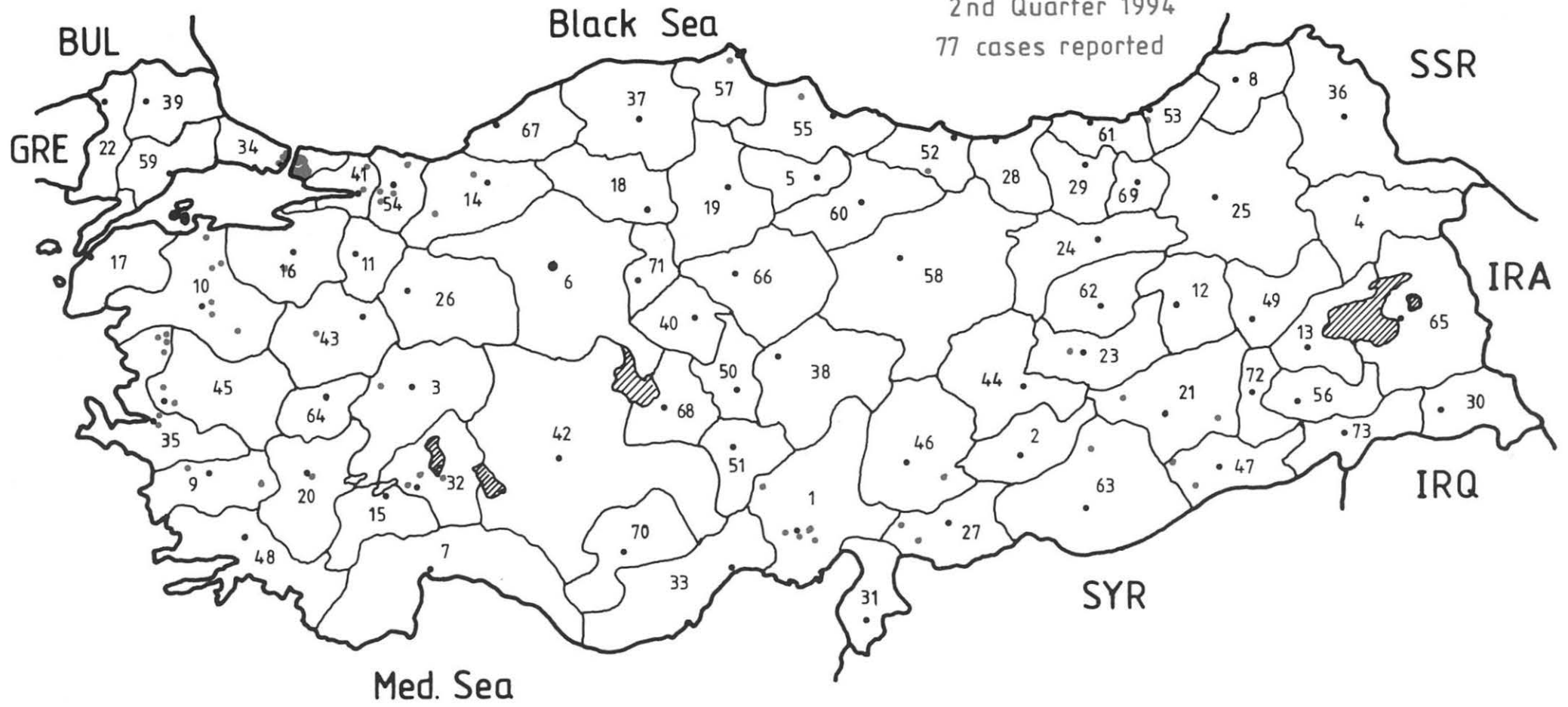
RUS		RUSSIAN FEDERATION						RABIES CASES						Q1/94		1. 1.94 - 31. 3.94	
LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL		
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL	
08	Pskov Region	-	-	-	1	-	-	1	-	-	-	-	3	3		4	
09	Bryansk Region	1	-	-	-	-	-	1	-	-	-	-	0	0		1	
12	Tver Region	-	-	-	-	-	-	0	3	-	-	-	-	3		3	
13	Kaluga Region	1	-	-	-	-	-	1	1	-	-	-	-	1		2	
15	Moscow Region	-	-	-	-	-	-	0	2	-	-	-	-	2		2	
16	Oryol Region	1	1	1	-	-	-	3	-	-	-	-	-	0		3	
19	Tula Region	-	-	-	-	-	-	0	2	-	-	-	-	2	1	3	
21	Nizhniy Novgorod Regi	1	1	-	-	-	-	2	-	-	-	-	-	0		2	
26	Belgorod Region	-	1	-	-	-	-	1	-	-	-	-	-	0		1	
27	Voronezh Region	2	-	3	-	-	-	5	-	-	-	-	-	0		5	
31	Astrakhan Region	-	1	6	-	3	-	10	1	-	-	-	1	2		12	
32	Volgograd Region	-	-	2	-	-	1	3	-	-	-	-	-	0		3	
33	Samara Region	-	-	3	-	-	-	3	8	-	-	-	-	8		11	
34	Penza Region	-	1	2	-	-	-	3	1	-	-	-	-	1		4	
35	Saratov Region	-	2	1	-	1	-	4	1	-	-	-	-	1		5	
36	Ulyanovsk Region	-	2	-	-	-	-	2	-	-	-	-	-	0		2	
37	Republic of Kalmykiya	-	-	1	-	14	-	15	-	-	-	-	-	0		15	
38	Republic of Tatarstan	1	-	5	-	-	-	6	4	-	-	-	-	4		10	
40	Stavropol Territory	3	-	2	1	1	-	7	-	-	-	-	-	0		7	
41	Rostov Region	2	-	5	-	-	-	7	-	-	-	-	-	0		7	
42	Orenburg Region	4	3	13	3	1	-	24	2	-	-	-	-	2		26	
44	Republic of Bashkorto	3	-	24	2	1	-	30	-	-	-	-	1	1		31	
46	Kaliningrad Region	-	-	1	-	-	-	1	2	-	-	-	-	2		3	
TOTAL		19	12	69	7	21	1	129	27	0	0	0	5	32	1	162	
PER CENT		11.7	7.4	42.6	4.3	13.0	0.6	79.6	16.7	0.0	0.0	0.0	3.1	19.8	0.6	100.0	

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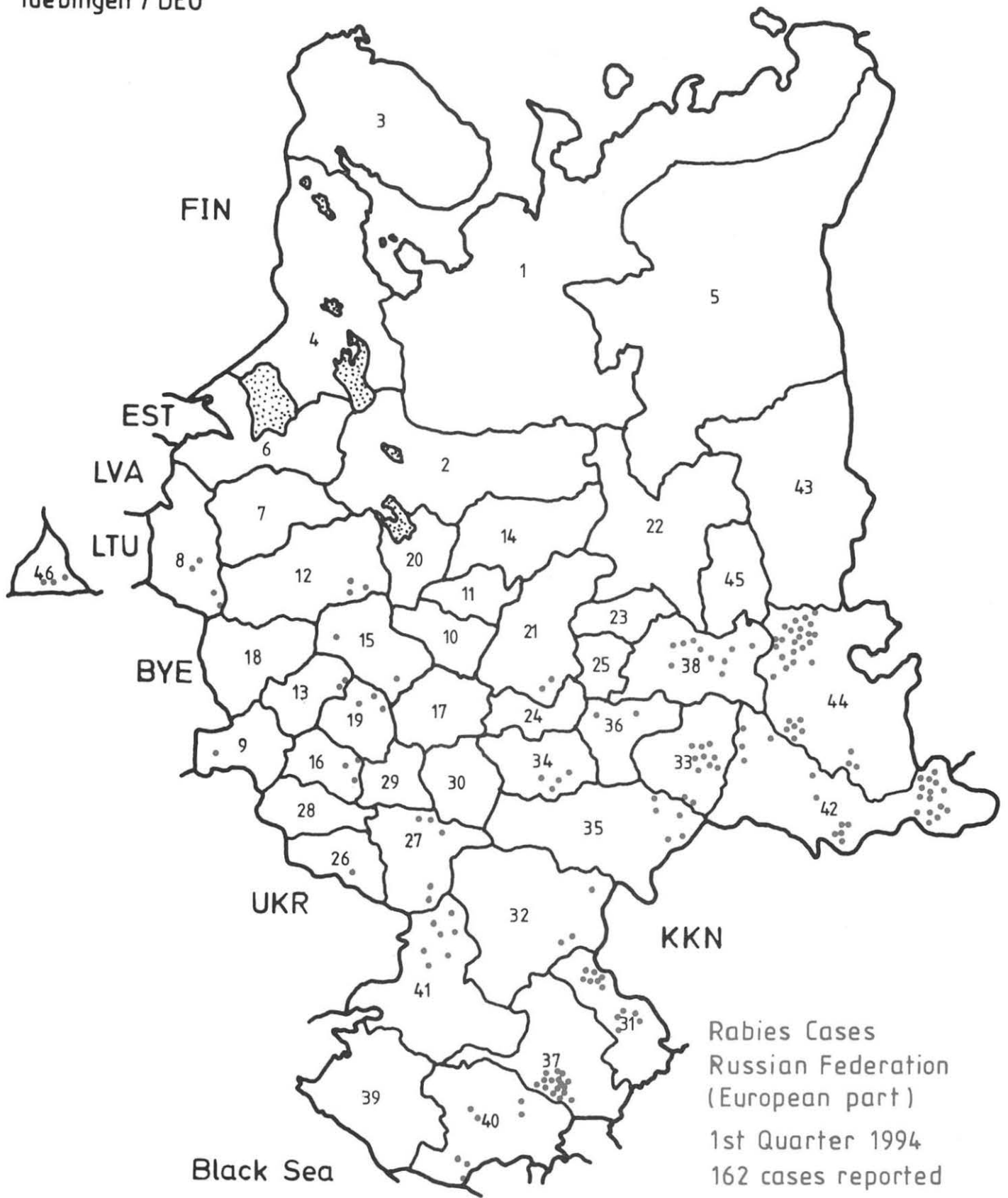
WHO Coll. Centre  
Tuebingen / DEU

Rabies Cases Turkey  
2nd Quarter 1994  
77 cases reported

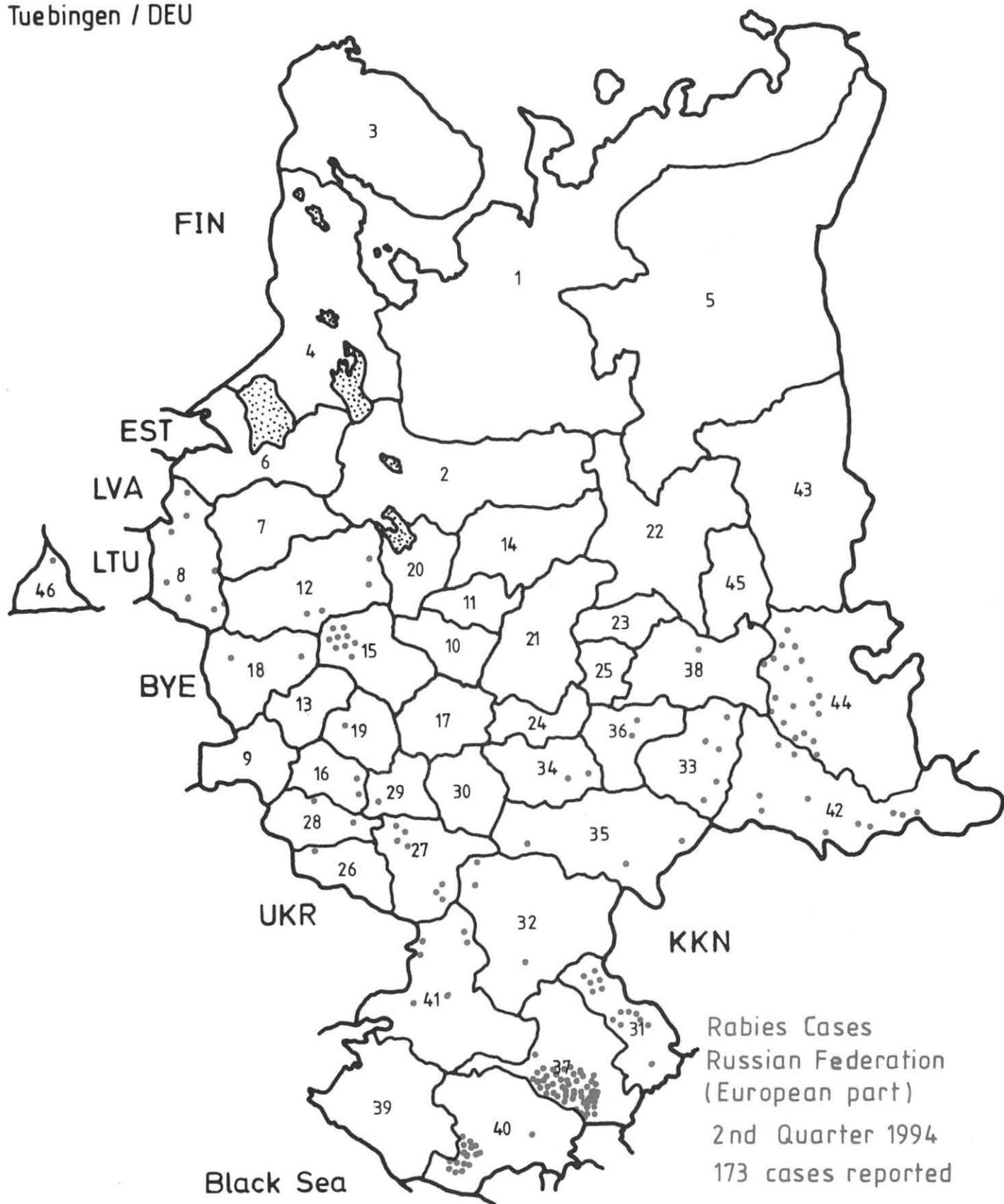






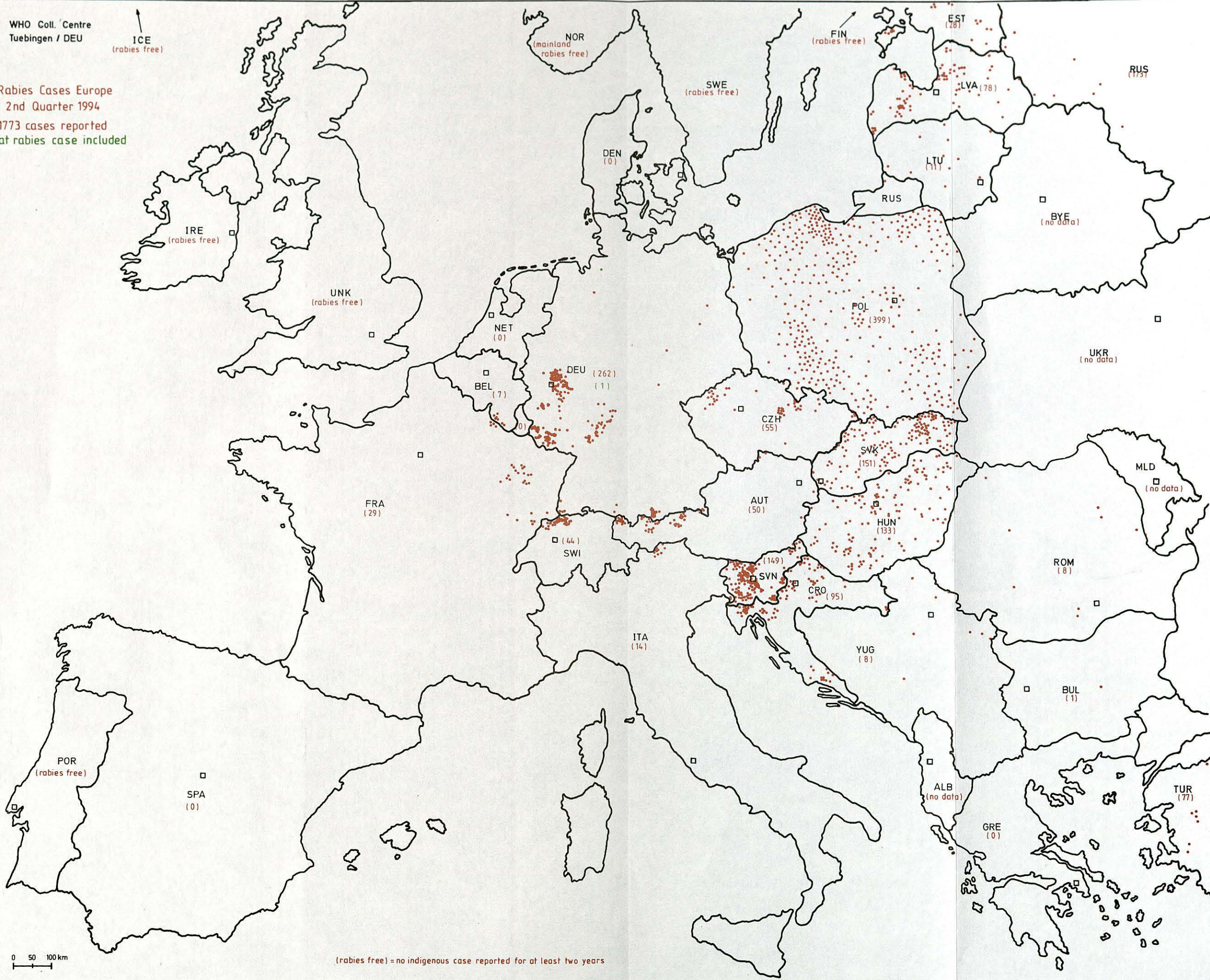






Rabies Cases  
Russian Federation  
(European part)  
2nd Quarter 1994  
173 cases reported

Rabies Cases Europe  
2nd Quarter 1994  
1773 cases reported  
1 bat rabies case included



0 50 100 km

(rabies free) = no indigenous case reported for at least two years