

RABIES BULLETIN EUROPE

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1. Introduction

This BULLETIN describes the reported rabies cases in **Europe** for the **Fourth 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 there is an article describing aspects of human rabies exposure in

Hungary and the case history of several human rabies cases. 4.2 is a review of all rabies cases received at the WHO Collaborating Centre for Rabies Surveillance and Research, Tübingen, from the beginning of the data collection in 1977 up to date. In this connection TABLES of quarterly data have been produced (4.2.1-4.2.3), a graph with annual data (ANNEX 3), and TABLES on bat rabies cases (4.2.4 and 4.2.5) and human rabies (4.2.6).

The rabies case data are tabulated for the **Fourth Quarter 1994** in SECTION 5.

SECTION 6 lists the official contributors to the BULLETIN.

The geographical distribution of rabies cases in Europe for the **Fourth Quarter 1994** is shown on maps of Europe, the Russian Federation and Turkey in the ANNEX. One graph in the ANNEX refers to the text under 4.2.

2. Summary of Rabies in Europe

2.1. Fourth Quarter 1994

During "*This Quarter*", 2785 rabies cases were reported in Europe. Of these were 2072 in wild animals (74.4% of total), 710 in domestic animals and 3 in humans.

Of the cases in wild animals, 1878 were foxes, 59 raccoon dogs, 28 badgers, 1 lynx, 18 stone martens, 26 pine martens, 4 polecats, 1 ferret, 45 roe deer, 1 fallow deer, 1 moose, 3 wild boars, 1 mouflon, 1 squirrel, 1 black rat and 4 unspecified animals. Of the 710 domestic animals, 139 were dogs, 202 cats, 326 cattle, 19 sheep, 6 goats, 15 horses, 1 pig and 2 domestic rabbits.

There were 3 human cases reported during "*This Quarter*", 2 in Hungary and 1 in Bulgaria.

There was no bat rabies case reported.

The above data are presented in TABLES 5.1 and 5.3 of SECTION 5 and in the TABLES of the individual countries.

Compared to the previous quarter (1727 cases - corrected figure) an increase is noticed (by 1058 cases). That is expected as wildlife rabies is seasonal and the increase in autumn is connected to the dispersal of young foxes born in the spring of the year. Most of the countries recorded the

increase except for France and Switzerland. Here the effect of oral vaccination is noticed which can interfere with the seasonality.

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

There were no cases reported during "*This Quarter*" from Denmark and the Netherlands, but the last indigenously acquired case (terrestrial or bat) was less than 2 years ago.

The status of countries irregularly supplying data cannot be judged.

2.2. Development and Trends in 1994

Summary:

Rabies case data summarizing the year 1994 can be found in TABLES 5.2, 5.4 and 5.5 of SECTION 5.

The number of rabies cases in 1994 totals 8819. The four quarters compare as follows (corrected figures):

1st quarter	- 2534
2nd quarter	- 1773
3rd quarter	- 1727
4th quarter	- 2785

The total in 1994 is the lowest figure recorded for one year since the beginning of this surveillance system in 1977, the highest figure being 24,377 in 1989 (corrected figure).

Wildlife or fox-mediated rabies:

The wildlife rabies epizootic of central Europe has the red fox as reservoir and this is also the animal that passes the infection most frequently on to other animals (wild and domestic). TABLE 5.2 with annual figures shows that the fox participates with 67.6% of all rabies cases in Europe as the principal vector, in spite of a large unknown figure, which we do not have in domestic

animals. Approx. 10% of other rabid wild animals share the same habitat with the fox. The same can be said for the greater part of farm animals in summer (cattle participate with 8.5% of the total as the second largest group).

After the year 1989 with a high rabies incidence in Europe (24,377 rabies cases), a reduction of cases was noticed every year. Reasons are the efforts of many countries to eradicate rabies by oral vaccination. Nevertheless, the countries practicing oral vaccination over a lengthy time have experienced different results. While countries like Austria, the Czech Republic and France record a continuous decline of cases, countries like Belgium, Germany, Slovenia and Switzerland record a rabies incidence in 1994 higher than in the previous year (see article in this BULLETIN under 4.2). The reasons are reinfections of formerly rabies-free areas or outbreaks which developed from residual foci.

The decrease of cases in Europe from 1993 to 1994 happened in spite of the above mentioned as the other countries had different degrees of increase or decrease according to control efforts or seasonal changes.

Urban- or dog-mediated rabies:

Normally, Turkey is counted among the other European countries. However, it is of a different rabies pattern altogether. In 1994 it accounted for only 2% of the total rabies cases in Europe. All cases occurred in domestic animals.

Turkey has continually diminishing annual rabies figures from 1981 with 2260 reported cases to 1994 with 170 cases.

Bat rabies:

There were 8 cases of bat rabies reported in 1994, 1 in the Netherlands, 2 in Germany, 1 in the Czech Republic, 1 in Spain and 3 in Denmark of which 2 cases were imported from the U.S.A. Since 1987 (142 cases) there is a diminishing tendency of bat cases registered in Europe.

Human rabies:

There were 7 human cases reported in 1994. One case occurred in Bulgaria, two in Hungary and 4 in the Russian Federation.

3. Rabies in Individual Countries

3.1 Albania ALB

No data.

3.2 Austria AUT

by Helmut Schnabl

Of 7464 samples examined for rabies during "*This Quarter*", 69 cases (0.9%) were diagnosed rabid. There has been an increase of rabies cases compared to the previous quarter (31 cases) by 122.6%. There were 273 cases registered during the fourth quarter 1993.

The increase of cases compared to the third quarter 1994 was caused by two new outbreaks, in Kärnten (23 cases) and Steiermark (18 cases), areas bordering with the heavily infested Slovenia.

Of the 69 cases during "*This Quarter*", 56 cases were foxes (81.2% of total), 5 badgers, 3 roe deer, 2 dogs, 1 bovine, 2 sheep.

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

Burgenland: 8 cases in the Bezirke Jennersdorf and Neusiedl/See.

Kärnten: 23 cases in the Bezirke Klagenfurt-Land and Villach-Land.

Steiermark: 18 cases in the

Bezirke Feldbach, Fürstenfeld and Radkersburg.

Tirol: 16 cases in the Bezirke Innsbruck/Land, Kufstein, Reutte and Schwaz.

Vorarlberg: 4 cases in the Bezirke Bregenz.

The federal provinces Niederösterreich, Oberösterreich, Salzburg and Wien recorded no cases.

Summary 1994

The total of rabies cases in 1994 amounted to 254, 421 cases less than in 1993 (675). In all infected areas of Austria oral vaccination of foxes against rabies is practiced.

3.3 Belgium BEL

by L. Hallet

During "*This Quarter*", 38 rabies cases were diagnosed in the country. 22 cases occurred in foxes, 12 in cattle, 3 in sheep, and one in a cat.

A vaccination campaign for foxes was carried out on 24 October 1994. An area of 2606 km² was treated with 39,000 vaccine baits. When a rabid fox was found at Tellin on 30 November 1994 at the edge of the vaccination area, the vaccination area was extended by a 30 km radius from Tellin.

There was a resurgence of the rabies situation in 1994 which started at Florenville in a

border area with France. At the end of the year the infected zone extended into the interior of the country.

Summary 1994

There were 61 animal rabies cases recorded in 1994 compared to 2 cases in 1993.

3.4 Bulgaria BUL

by J. Kaloyanov

During "*This Quarter*", 4 animal rabies cases not specified in four provinces were reported and 1 human case.

The human case occurred in December in the village of Tchernibryag in the region of Targovichte. It concerned a child who was bitten by a dog.

Note of the editor: There was no report received for the month of November 1994.

3.5 Belarus BYE

by S.N. Shpilevsky

During "*This Quarter*", 21 rabies cases were diagnosed in Belarus. Of the total 14 cases occurred in domestic animals (6 dogs, 3 cats, 2 horses, 3 cattle) and 7 in foxes.

In all 6 regions between 1 and 6 cases were noticed.

Summary 1994

There were only reports for the 3rd and 4th quarters (total 40 cases).

3.6 Croatia CRO

by Mate Brstilo

During "*This Quarter*", a total of 172 animal rabies cases were registered in Croatia.

Of the 172 cases 167 were in foxes (97.1% of total). The number of rabid foxes increased compared to the 3rd quarter 1994 (74) as well as to the 4th quarter of 1993 (142).

Regarding other wild animal there was only one case in a marten (municipality Pazin).

There was a decrease of cases in domestic animals (1 dog, 2 cats and 1 goat) compared to the 3rd quarter 1994 (7) as well as to the 4th quarter of 1993 (11).

The municipalities mostly affected by the disease were Vrbovec (29 cases) and Krizevci (15 cases).

An autumn campaign of oral vaccination was carried out in the districts of Zupanija Istarska and Zupanija Primorsko-Goranska. In an area of 4.500 km² 80.000 vaccine baits were placed with the help of hunters.

Follow-up investigations on the efficacy of the vaccination will be presented in due course.

Summary 1994

The annual total of rabies cases amounted to 540.

In 1993 357 cases were registered.

3.7 Czech Republic CZH

by Oldrich Matouch

There were 41 rabies cases in animals registered in the Czech Republic during "*This Quarter*". Of these were 39 cases (95.1%) in wild animals (37 foxes, 2 martens) and 2 cases (1 cat, 1 goat) in domestic animals. These figures represent a decrease of rabies cases by 70 (63.1%) compared to the fourth quarter 1993 (111).

Most affected areas remain North Bohemia (15 cases) and North Moravia (11 cases). Considerable improvement was noticed in South Moravia (2 cases).

An oral vaccination campaign of foxes was carried out in October covering the whole infected area of the country.

762,000 Lysvulpen (BIOVETA, SAD-Bern) vaccine doses were used in 52 districts covering an area of 46,900 km².

Summary 1994

In 1994, a total of 9,846 animals were examined for rabies in the Czech Republic. Rabies was diagnosed in 221 cases.

The highest incidence was registered in foxes - 191 cases (86.4%). The other animals involved were marten (11), roe-deer (3), badger (2), bat (1), dog (6), cat (5), sheep (1), goat (1).

Rabies cases decreased by 47.6% compared to 1993 (422 cases).

The continued reduction of rabies cases which has been experienced during the last years was undoubtedly connected to the oral vaccination of foxes practiced since 1989.

3.8 Denmark DEN

by Eric Stougaard

There was no case reported during "*This Quarter*".

Summary 1994

Altogether 3 cases of bat rabies were recorded in Denmark in 1994, 2 of these were imported from the U.S.A.

**3.9 Germany, DEU
Federal Republic**

by Winfried W. Müller
and Thomas Müller

A total of 455 rabies cases was reported during "*This Quarter*", 174 cases more than during the previous quarter and 65 cases more than during the fourth quarter 1993.

The two very active foci of the previous quarter registered an increase of cases (Nordrhein-Westfalen from 121 to 183 and Saarland from 64 to 131). The increase was noticed less in Hessen, Rheinland-Pfalz and Bavaria. There was a slight improvement of the rabies situation in Baden-Württemberg. Nevertheless, for the first

time there were 10 federal states recording no rabies cases at all.

In spite of the reduced infected areas in general, the rabies situation remains precarious due to the high fox populations. The federal states, responsible for the rabies control, reacted partially by increasing the use of vaccine baits per km² or by practicing a third vaccination campaign in summer.

Summary 1994

The annual total amounted to 1378 animal rabies cases, 533 more than during the previous year (845).

The development of rabies in 1994 was characterized by the improvement of the situation in large areas of the country (particularly in the east and in the formerly reinfected areas across the national border in the south) on one hand and an explosion of rabies cases in some parts of the west on the other hand.

3.10 Estonia EST

by Matti Nautras

During "*This Quarter*", 21 rabies cases were registered in Estonia, 7 cases less than in the previous quarter. 13 cases occurred in wild animals (9 foxes, 1 badger, 3 raccoon dogs), and 8 in domestic animals (3 dogs, 4 cats, 1 bovine).

The cases were scattered throughout the country. They were concentrated in the province of Polvamaa (10 cases); the other infected prov-

inces recorded less than 4 cases. Seven provinces had no cases during "*This Quarter*".

Summary 1994

There were 108 animal rabies cases recorded in 1994, 52 cases less than in the previous year (160).

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: 15 raccoon dogs, 8 foxes, 1 pine marten, 3 dogs and 5 cats.

3.12 France FRA

by Michel F.A. Aubert

10 rabies cases were registered during "*This Quarter*", 8 less than in the previous quarter. The cases were diagnosed in 6 foxes, 1 dog, 2 cats and 1 bovine. Six départements (departments) were affected by the disease.

Summary 1994

The annual total amounted to 99 cases, 162 cases less than in the previous year (261).

3.13 Greece GRE

by J. Koykidis

The country remained rabies-free.

3.14 Hungary HUN

by Balint Kerekes

A total of 423 rabies cases were reported in Hungary during "*This Quarter*", 275 cases more than during the previous quarter (148) and 151 more (an increase of 55.5%) than during the 4th quarter 1993 (272). Of the 423 cases 320 were wild animals (316 foxes, 1 stone marten, 3 roe deer) and 101 domestic animals (25 dogs, 62 cats, 14 cattle). There were two human cases during "*This Quarter*". Both patients were infected by the same animal, a cat (see as well under 4.1 of this BULLETIN).

Annual development 1978-1994

The annual total in 1994 amounted to 949, 947 animal rabies cases and 2 human cases.

The provinces (Komitates) mostly affected by the disease in 1994 were Somogy, Baranya, Pest and Fejer with 104, 91, 88 and 87 cases respectively.

While grouping the annual total from 1978 to 1994 and relating the foxes participation in the disease, the following phenomenon was noticed: The percentage of foxes diagnosed rabid in regard to the

total diminished by approx. 20% (see TABLE 3.14.1) over the last 17 years.

Note of the editor: The table was computed by the contributor. The data vary slightly from

that reported to the WHO Reference Centre, Tübingen.

TABLE 3.14.1: Annual Rabies Case Data Hungary

Year	Cases of Rabies	Fox	Percentage
1978	1299	1203	92.6%
1979	1285	1185	92.0%
1980	918	864	94.0%
1981	1002	923	92.1%
1982	1372	1260	91.8%
1983	978	878	89.7%
1984	1175	1058	90.0%
1985	1031	903	87.5%
1986	1264	1067	84.0%
1987	1465	1263	86.0%
1988	1176	988	84.0%
1989	1061	840	79.0%
1990	1092	902	82.6%
1991	880	682	77.5%
1992	892	694	77.8%
1993	1124	854	76.0%
1994	948	712	75.0%

3.15 Iceland ICE

The country remained rabies-free.

3.16 Ireland IRE

The country remained rabies-free.

3.17 Italy ITA

by Santino Prosperi

During "*This Quarter*", 6 rabies cases were diagnosed. All cases occurred in the province of Gorizia and

Trieste bordering with Slovenia. In the province of Bolzano no cases were reported this time; the last case had occurred in a badger in July 1994.

Summary 1994

In 1994 surveillance was carried out in all Alpine regions:

1. 395 wild animals (340 foxes) and 258 domestic animals were examined in Piemonte, Valle d'Aosta and Liguria, all were negative;
2. 664 wild animals (589 foxes) and 210 domestic animals were examined in Lombardia - all were negative;
3. 4873 wild animals (3813 foxes) and 381 domestic ani-

mals were examined in Trentino Alto Adige, Veneto and Friuli Venezia Giulia - of these 31 foxes, 3 badgers and 2 pine martens were positive.

On January 3rd 1994, the Ordinance No. 10 of the Ministry of Health made vaccination compulsory for dogs, cattle, sheep, goats and equines in the Friuli Venezia Giulia Region and Bolzano province. ERA vaccine is to be used except for dogs whose owners are asked to use, at their own expense, a killed vaccine. The Health Authorities of Piemonte, Valle d'Aosta, Liguria, Lombardia, Veneto and Trento province will consider compulsory vaccination in case the

rabies situation in the bordering countries makes it necessary.

Oral vaccination of foxes was carried out in spring in the provinces of Trieste, Gorizia and Udine in an area of 1,600 km² using 25,000 vaccine baits. Only 40 km² of that area in the province of Trieste bordering with Slovenia, was revaccinated in December 1994 using 700 vaccine baits. In May vaccination of foxes was performed in a 1000 km² area of the Bolzano province comprising 18 municipalities using 12,000 vaccine baits. It was repeated in autumn in an area of only 900 km² using 10,000 vaccine baits.

3.18 Lithuania LTU

by K. Lukauskas and A. Dranseika

During "*This Quarter*", 25 rabies cases were diagnosed in 14 districts. Of the 25 cases 9 were in wild animals and 16 in domestic animals. Of the wild animals 4 were foxes, 3 raccoon dogs and 2 pine martens, and of the domestic animals 8 were cattle, 3 cats and 5 dogs.

The districts most affected were Biržai - 5, Joniškis - 5, Panevėžys - 3, Jurbarkas - 2 cases.

There was no human rabies case reported in the country.

During "*This Quarter*" more than 50,000 dogs were vaccinated against rabies par-enterally.

Summary 1994

The annual total of rabies cases amounted to 63. In the previous year 100 rabies cases were registered.

3.19 Luxembourg LUX

by Joseph Kremer

After 15 months of being rabies-free there was 1 fox rabies case in October in Erpeldingen near Remich, in the east of Luxembourg. It is assumed that the fox may have crossed the bridge at Remich over the river Moselle from Saarland (Germany). The assumption may be confirmed by the fact that no further case occurred in November and December 1994.

There was a vaccination campaign carried out in the country in September 1994.

The fox rabies case was the only one registered in 1994 in Luxembourg.

3.20 Latvia LVA

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

79 rabies cases were registered during "*This Quarter*" in 17 districts, 23 cases more than during the previous quarter. There were 4 rabies cases more than in the same period 1993. 48 cases were diagnosed in wild animals (60.8% of total). Of the cases in wild animals 35 were foxes, 10 raccoon dogs, 2 badgers, 1

marten. Of 31 rabies cases in domestic animals 12 were dogs, 13 cats, 4 cattle, 1 pig and 1 goat. The most affected districts were Ogre with 13 cases and Saldus with 10 cases.

Summary 1994

The annual total amounted to 278 animal rabies cases. There were 194 rabies cases recorded in 1993.

3.21 Moldova MLD

No data.

3.22 Netherlands NET

by G. Visser

During "*This Quarter*", 15 animals were investigated for rabies; none of these animals were positive.

Summary 1994

In 1994, a total of 133 animals was investigated (21 adult foxes, 5 dogs, 5 cats, 1 badger, 1 polecat, 1 rat, 2 squirrels and 97 bats).

Of the 97 investigated bats 81 were living wild, 16 were of a *Rosettus aegyptiacus* colony in an artificial cave of the Blijdorp Zoo in Rotterdam. One of the wild living bats, an *Eptesicus serotinus* from the Gelderland province was diagnosed rabid.

There has been a decline of bat rabies cases over the last years. An explanation in this regard can not be offered at this point as number and kind of animals supplied

for the investigation of rabies by the public and officials has not changed.

3.23 Norway NOR

by Gudbrand Bakken

The mainland of Norway remained rabies-free.

3.24 Poland POL

by Bogdan Twarowski

A total of 691 rabies cases were registered in Poland during "*This Quarter*", 95 cases more than during the previous quarter and 113 cases more than during the fourth quarter 1993.

Of the total cases 543 (78.6%) were in wild animals (462 foxes, 42 raccoon dogs, 1 lynx, 2 badger, 21 pine martens, 3 polecats, 1 ferret, 11 roe deer) and 148 in domestic animals (24 dogs, 54 cats, 70 cattle).

Summary 1994

The annual total in 1994 amounted to 2227 cases, 418 cases less than in 1993 (2645). All 49 voivodeships (provinces) were affected by the disease. They recorded between 1 and 186 cases.

3.25 Portugal POR

The country remained rabies-free.

3.26 Romania ROM

by Gheorghe Stratulat

Six cases of rabies in animals were reported in Romania during "*This Quarter*". They occurred in 4 foxes and 2 cattle. The cases were isolated and were located in 5 provinces throughout the country.

Summary 1994

The annual total amounted to 32 animal rabies cases, 45 cases less than in the previous year (77).

3.27 Russia RUS (European part only)

by V.A.Vedernikov, B.L.Cherkasskiy, V.A.Semlianova, P.K.Shumilov, S.A.Kolomycev and A.E.Khairushev

During "*This Quarter*", 225 rabies cases in animals were reported from the European part of Russia.

Of the total number of cases 192 were in domestic animals - 31 dogs, 18 cats, 135 cattle, 7 horses and 1 sheep. Of 33 wild animals rabies was diagnosed in 31 foxes, 1 raccoon dog, and 1 elk.

Areas most affected were the Orenburg region with 47 cases, the Voronezh region with 29 cases, Bashkortostan with 27 cases, the Bolgorod region with 24 cases, and the Volgograd region with 20 cases.

Summary 1994

The total in 1994 amounted to 667 cases, 102 cases less than in the previous year.

3.28 Spain SPA

by Carlos Abellán García

During "*This Quarter*", one dog was diagnosed rabid in Melilla in the Spanish territory of North Africa.

In 1994 there were only 3 animal rabies cases reported in Spain, 2 in dogs from Melilla and 1 in a bat from Granada.

3.29 Slovak Republic SVK

by Bohuslav Lovas and Jozef Sokol

During "*This Quarter*", 147 rabies cases were reported in the Slovak Republic. Of these, 118 cases were in wild animals (80.3% of total) and 29 in domestic animals. Of the wild animals the disease occurred in 111 foxes, 3 martens, 2 wild boars, 1 roe deer and 1 black rat. Of the domestic animals 11 were dogs, 17 cats and 1 horse.

An oral vaccination campaign of foxes against rabies was carried out in October-November 1994. During this vaccination campaign 650.000 KAMARK vaccine baits have been distributed in an area of approx. 47.000 km² (37 districts).

Summary 1994

The annual total amounted to 564 rabies cases. There were 75 cases more compared to 1993. More than 229.000 dogs were vaccinated against rabies throughout the year.

3.30 Slovenia SVN

by Armin Tomašič

A total of 288 animal rabies cases was noticed in Slovenia during "*This Quarter*", 157 cases more than during the previous quarter, and 54 cases more than during the fourth quarter 1993. Of the 288 cases 258 (89.6%) were foxes, 16 in other wild animals and 14 in domestic animals (7 dogs, 4 cats, 1 bovine, 2 domestic animals (7 dogs, 4 cats, 1 bovine, 2 domestic rabbits).

In Murska Sobota in the very north-east of the country 83 cases were registered and 35 in Krnj. All other communities (Občina) reported less than 20 cases.

Summary 1994

The total of rabies cases in 1994 amounted to 839, 333 cases more than in the previous year. Going back to the year 1977 the annual peak was recorded in 1981 with 1766 rabies cases.

3.31 Sweden SWE

The country remained rabies-free.

3.32 Switzerland SWI

by Urs Breitenmoser

During "*This Quarter*", the Swiss Rabies Centre examined a total of 683 animals of which 5.3% (36) were positive for rabies. In the previous quarter, 10.6% (45 out of 426) and in the fourth quarter of 1993, 9.2% (78 out of 849) had been recorded positive, respectively. The cases of rabies observed in this quarter involved 21 red foxes, 8 badgers, 2 roe deer, 1 dog, 2 sheep, and 2 cattle. 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 pipistrellus*, 1 *Pipistrellus nathusii*, 1 *Myotis myotis*, and 1 *Myotis daubentoni*) were examined during the reporting period. None was found to be positive for rabies.

One person was known to have been bitten by a rabid animal. The number of people treated for non-bite exposure is not recorded.

3.33 Turkey TUR

by A. Nizamettin Güvener

During "*This Quarter*", 12 cases of rabies (9 dogs, 1 cat, 2 cattle) were reported in Turkey. 10 provinces (II) were affected by the

disease reporting one or two cases.

Summary 1994

170 animal rabies cases were reported in Turkey, 117 less than in 1993.

All 170 cases occurred in domestic animals.

The provinces (II) mostly affected were Istanbul, Balikesir, Izmir and Sakarya with 52, 15, 13 and 12 cases respectively. All other infected provinces registered less than 10 cases.

3.34 Ukraine UKR

No data.

3.35 United Kingdom UNK

by P.J. Thomas

The country remained rabies-free.

Surveillance 19943rd and 4th Quarters 1994

Reports of suspect rabies outside quarantine were investigated on 7 occasions during the period, involving 1 dog, 3 cats, 2 foxes, and 1 raccoon. Veterinary staff resolved 2 incidents at the initial clinical investigation and 5 following examination of material submitted to the Central Veterinary Laboratory, Weybridge.

33 dogs and 34 cats died whilst in quarantine and in every case material was submitted to the Central Veterinary

Laboratory, Weybridge, with negative results in all cases.

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

No cases of human rabies occurred during the period.

3.36 Yugoslavia YUG

by Jan Kisgeci

13 rabies cases were reported during "*This Quarter*", 8 in wild animals and 5 in domestic animals. There were 3 cases in Serbia (2 foxes, 1 cat),

1 case in Montenegro (1 sheep) and 9 cases in Vojvodina (3 cats, 5 foxes, 1 stone marten).

Summary 1994

The annual total amounted to 46 cases, 4 in Montenegro, 8 in Serbia and 34 in Vojvodina. There were 83 cases in 1993.

4. MISCELLANEOUS ARTICLES

4.1 Human Rabies in Hungary

by Imre Lontai

"B.Johan" National Institute of Public Health, H-1966 Budapest, P.O. Box 64, Hungary

Human rabies exposure

The appearance of rabies in wildlife in Hungary, shown in TABLE 4.1.1 meant first of all fox rabies at the beginning of the period, but during the last ten years there is a tendency that, while the number of rabid animals is not varying significantly from year to year (FIGURE 4.1.1), the proportion of rabid domestic animals is increasing (FIGURE 4.1.2). During the last six years only 11.6% of vaccinees received prophylactic treatment because of a fox exposure, while 20 years earlier this proportion was 31.1% (TABLE 4.1.2). On the other hand the proportion of dogs (TABLE 4.1.2) and the category "C" type exposure (TABLE 4.1.3) is increasing. These observ-

ations are an explanation for the considerable increase of the number of prophylactically treated persons in the country (FIGURE 4.1.1).

In regard to human rabies cases it can be noticed, there were less human cases in the beginning of wildlife rabies, while during the last 10 years there were 5 cases (see TABLE 4.1.4), 4 of them resulting from a cat bite.

While all animals causing human rabies showed clinical signs of rabies (TABLE 4.1.5), the laboratory examination did not confirm the diagnosis of rabies in every case. 0.4-1.1% of FAT (fluorescence antibody test) negative brain material proved to be positive in the mouse inoculation test (TABLE 4.1.6). The mouse inoculation is recommended in

case of human exposure when the FAT is negative. Nevertheless, in two instances where cats were the source of infection with clinical signs, the brain samples were neither with FAT nor mouse inoculation test positive for rabies. Therefore, the recommendations for the cessation of treatment in case of negative laboratory results should be reconsidered.

History of five cases

Case 1

A 52-year old woman was bitten by a stray cat on 24.05.1985. The antirabies vaccination started on 27.05.1985. She received the first six doses on a schedule of seven doses with Hempt type sheep brain-Högyes strain vaccine used in 1985 in Hun-

gary on the days 0, 1, 2, 3, 4, 5 and 35. The vaccination was not completed, as the patient died before the 35th day of the intended vaccination. 24 days after injury the patient had fever and a sore throat. Four days later she was hospitalized with a complaint while swallowing. A sudden death occurred at the same day due to respiratory failure and circulatory collapse. The diagnosis of rabies was proved by inoculating the autopsy brain material in suckling and adult mice, and histopathologically. There was no success in demonstrating the lyssa virus in brain material using the FAT. The examinations of the cat brain showed also negative results both, in FAT and in the mouse inoculation test, but the cat had shown clinical signs of rabies.

Case 2

A 35-year old man was bitten by a fox on 02.11.1985. The patient did not cooperate for his vaccination. He attended his doctor on 13.12.1985 with the complaint of skin - itching and vomiting. On the next day he was hospitalized with serious difficulties to swallow and breathing. In spite of intensive treatment he died on 26.12.1985.

The diagnosis of rabies was proved by examination of the brain with FAT and histological techniques. The cornea test prepared on the third day of hospitalization and the attempts to isolate lyssa virus from CSF (cerebrospinal fluid)

or to detect neutralizing antibodies against lyssa virus in sera and CSF were negative.

Case 3

A 52-year old woman was bitten by her cat on 05.04.1991. The aggressive animal was killed. FAT and mouse inoculation test of the cat brain were negative. A vaccination of the patient was not started. 51 days after the injury the patient had nausea and complaint of swallowing. On the 54th day she was hospitalized.

Sudden death occurred on the same day due to respiratory and circulatory collapse. Autopsy brain material was negative with the FAT, but the mouse inoculation test was positive.

The Institut Pasteur (Paris) confirmed rabies, as an European dog type isolate of serotype 1.

Case 4

A 2-year old boy was hospitalized on 10.10.1994 with the diagnosis of encephalitis acuta. In spite of the intensive treatment he died on 20.10.1994.

Case 5

A 40 years old woman was found in coma on 11.10.1994 in front of her house. She was carried to hospital, where she died on 21.10.1994, remaining unconscious till the end.

Cases 4 and 5 occurred in the same village. An epidemiological investigation was started on 21.10.1994. It was found that on 20.08.1994 the cat of the woman had become aggressive, biting the Case 4 child, the woman (owner) and a third person. The cat was killed on that day. The cat brain was not examined in the laboratory.

The third person bitten suffered a wound on his leg on 20.08.1994, but received no medical care. His antirabies prophylaxis started on 21.10.1994 getting two doses of HDC vaccine in the deltoideus region of both arms. The immunization was completed on 21.01.1995. He remained without any symptom or complaint.

The examination of the autopsy brain material of the case 4 and 5 patients verified rabies.

In connection with the two cases, 183 persons (hospital members, family contacts) received antirabies prophylaxis.

TABLE 4.1.1

Appearance of Rabies in Wildlife

PERIOD	OBSERVATION
1954-1966	Sporadic fox rabies cases 113 foxes and 127 dogs and cats
1966	17 fox cases
1967	212 fox cases
1968	772 fox cases
Since 1974	the entire country is infected

TABLE 4.1.2

Distribution of the Proportion of Vaccinees by the Animal Species Causing Exposure

Species	Period (Year)		
	1975-1982	1983-1987	1988-1993
Dog	41.0%	41.0%	56.2%
Cat	18.6%	20.8%	18.6%
Cattle	3.7%	8.9%	8.7%
Fox	31.1%	22.2%	11.6%
Others	5.6%	7.1%	4.9%
Total	100.0%	100.0%	100.0%

TABLE 4.1.3

Distribution of the Proportion of Vaccinees by the Exposure Categories

PERIOD	EXPOSURE CATEGORY			
Year	A	B	C	D
1975-1982	37.8%	3.1%	41.6%	17.5%
1983-1987	43.0%	4.2%	42.2%	11.6%
1988-1993	29.5%	4.9%	58.1%	7.5%

CATEGORIES:

A-exposure caused by a confirmed rabid animal

B-exposure caused by a rabies suspect animal

C-exposure caused by an unknown, stray or wild animal, observation is not possible

D-exposure caused by an animal remaining healthy after a 10 days observation

TABLE 4.1.4

Human Rabies Cases in Hungary (1951-1994)

YEAR	NUMBER OF CASES	SOURCE
1951	1	Dog
1967	1	Fox
1978	1	Imported from Nigeria
1985	2	Fox/Cat
1991	1	Cat
1994	2	One cat infected 2 persons

TABLE 4.1.5

Data of Animals Which Caused Human Rabies in Hungary

YEAR	SPECIES	HEALTH CONDITION	FAT	MOUSE INOCUL. TEST
1985	Fox	aggressive*	not done	not done
1985	Cat	aggressive*	<u>negative</u>	<u>negative</u>
1991	Cat	aggressive*	<u>negative</u>	<u>negative</u>
1994	Cat	aggressive*	not done	not done

* animal killed

TABLE 4.1.6

Laboratory Test Results of Rabies Suspected Animals in a Four Years Period (1990-1993)

ANIMAL SPECIES	FAT POSITIVE	FAT NEGATIVE	MOUSE INOC. TEST POSITIVE	%
Cat	392	1387	15	1.1
Dog	232	2106	13	0.6
Fox	3275	977	4	0.4
Cattle	166	269	1	0.4

FIGURE 4.1.1

THE NUMBER OF RABID ANIMALS AND THE NUMBER OF PERSONS TO WHOM VACCINE HAD BEEN ORDERED (1984 - 1994)

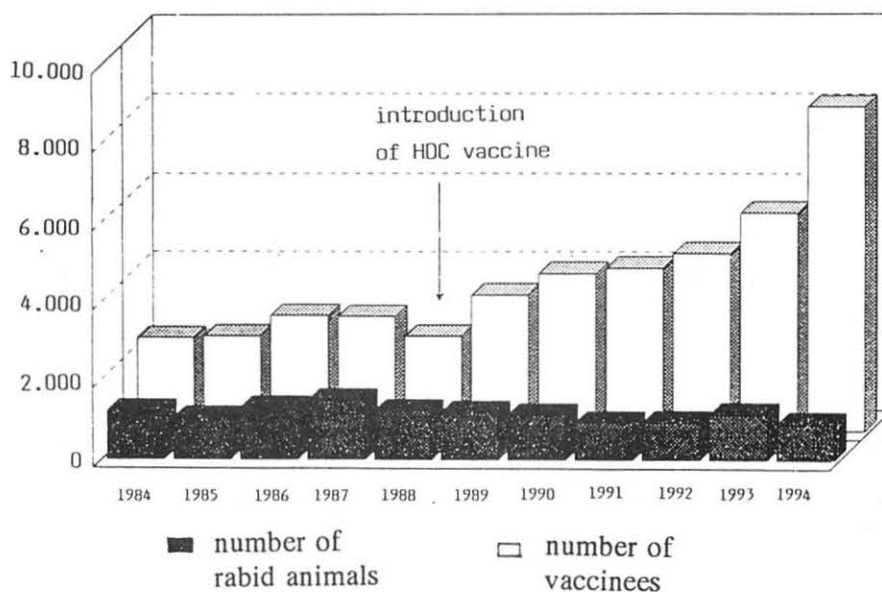
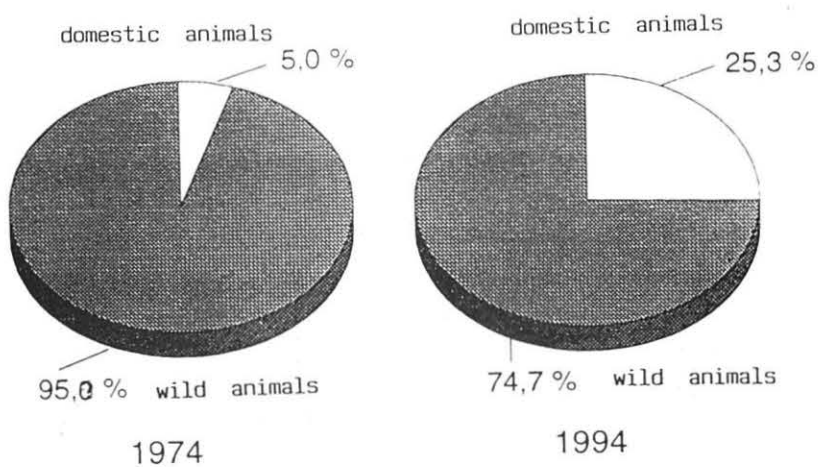


FIGURE 4.1.2

PERCENTAGE DISTRIBUTION OF THE RABID ANIMALS IN THE YEARS 1974 AND 1994



4.2 Review of Reported Rabies Case Data in Europe to the WHO Collaborating Centre Tübingen from 1977 to 1994

by W.W. Müller

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at the Federal Research Centre for Virus Diseases of Animals, Tuebingen, Germany

Every two years a review of the data material reported to the WHO Reference Centre, Tübingen from the beginning in 1977 is given in this BULLETIN. The last review appeared in RABIES BULLETIN EUROPE 4/92. The data are partly supplemented if they were received late for the quarter to be published. Contributors are asked to see if they can further improve data of their countries back to 1977 by providing us with any missing data. In this issue we present:

Tables of quarterly figures

TABLES 4.2.1 - 4.2.3 (pages 18-20) summarize 18 years of rabies cases in animals and humans. For the last years the political changes have resulted in the inclusion of 12 new countries: Belarus (BYE), Croatia (CRO), Czech Republic (CZH), Estonia (EST), Germany (DEU), Lithuania (LTU), Latvia (LVA), Moldova (MLD), Slovak Republic (SVK), Slovenia (SVN), the Russian Federation (RUS) and Ukraine (UKR). In the latter countries the cases have been arranged according to their territories back to 1977.

A graph with annual figures

On a map of Europe (ANNEX 3) continuous columns indicate the annual development of rabies in in-

dividual countries over 18 years. Figures below 100 are given in digits.

Two tables on bat rabies

Bat rabies has its own cycle. The epizootic in Europe occurs mainly in areas without fox-mediated rabies. Within the different bat populations approx. 95% of all cases occur in the species *Eptesicus serotinus*. Due to the life cycle of the bats rabies is seasonal. Of 472 rabies cases 336 (71.2% of total) occurred during the third quarter of the year. This figure comes about because of great activities in the bat colonies during summer with the possibility to pass on the virus to other animals, plus the incubation period.

Of the total number of cases the bat cases have been singled out by country and year:

TABLE 4.2.4

Country	Number of Cases
Czech Republic	1
Denmark	168
France	2
Germany	79
Netherlands	205
Poland	2
Russian Federation	4
Spain	8
Slovakia	1
Switzerland	2
Total	472

TABLE 4.2.5

Year	Number of cases
1977	1
1982	1
1983	1
1985	15
1986	122
1987	142
1988	53
1989	42
1990	40
1991	15
1992	14
1993	18
1994	8
Total	472

A table of human rabies cases

Unfortunately, human rabies cases are not reported regularly by all countries participating in the European surveillance. The cases received have been singled out by year and country (see TABLE 4.2.6).

TABLE 4.2.1

EUR											EUR																					
LOC. CODE	QUARTER				YEAR 1977	QUARTER				YEAR 1978	QUARTER				YEAR 1979	QUARTER				YEAR 1980	QUARTER				YEAR 1981	QUARTER				YEAR 1982	LOC. CODE	
	1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4			1
ALB	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	ALB	
AUT	852	683	508	1015	3058	1136	1139	868	901	4044	789	529	404	296	2018	250	288	167	111	816	197	209	188	185	779	259	290	154	259	962	AUT	
BEL	36	13	6	13	68	25	15	13	8	61	8	5	4	8	25	11	23	2	11	47	24	23	36	91	174	135	139	128	273	675	BEL	
BUL	-	-	-	-	0	1	-	-	-	1	-	-	-	-	0	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	0	BUL
BYE	-	-	-	-	0	25	7	14	8	54	20	27	22	29	98	28	18	15	14	75	16	8	10	14	48	12	18	22	26	78	BYE	
CRO	-	4	-	5	9	-	-	-	23	23	16	29	28	41	114	55	16	19	57	147	87	30	28	42	187	260	57	33	78	428	CRO	
CZE	113	87	127	101	428	179	132	150	157	618	120	166	156	221	663	417	274	208	227	1126	248	235	208	321	1012	473	410	325	445	1653	CZE	
DEU	-	-	3	3	6	14	24	69	56	163	37	41	46	41	165	22	11	2	2	37	2	1	-	-	3	1	-	-	-	1	DEM	
DEU	2388	1407	1450	1493	6738	1423	966	1277	1355	5021	1640	1314	1477	2141	6572	2549	1790	2109	2213	8661	2097	1507	1790	1933	7327	2242	1646	1974	2645	8507	DEU	
EST	-	-	-	-	0	5	-	12	5	22	2	2	4	6	14	6	3	3	5	17	4	3	3	3	13	2	2	5	4	13	EST	
FIN	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	-	0	FIN
FRA	572	356	354	386	1668	384	289	212	317	1202	533	394	344	435	1706	589	381	275	375	1620	552	412	550	827	2341	1023	874	771	738	3406	FRA	
GRE	5	2	-	2	9	1	-	1	-	2	-	-	-	2	2	-	-	-	-	0	-	-	3	-	3	1	-	-	-	-	1	GRE
HUN	221	166	99	250	736	629	169	192	311	1301	546	159	222	355	1282	381	142	191	204	918	314	122	194	372	1002	601	246	187	339	1373	HUN	
ICE	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	-	0	ICE
IRE	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	-	0	IRE
ITA	3	26	39	29	97	83	82	39	46	250	30	28	17	4	79	3	2	2	5	12	55	120	113	79	367	112	82	88	63	345	ITA	
LTU	-	-	-	-	0	-	-	12	13	25	1	2	8	17	28	7	3	8	6	24	2	1	5	5	13	6	5	9	9	29	LTU	
LUX	10	6	9	9	34	22	16	16	8	62	3	3	4	13	23	8	1	1	13	23	16	18	25	27	86	33	24	41	107	205	LUX	
LVA	-	-	-	-	0	4	3	3	5	15	3	5	4	7	19	14	6	12	9	41	8	4	4	7	23	5	6	7	9	27	LVA	
MLD	-	-	-	-	0	4	2	7	7	20	10	5	4	3	22	3	6	5	3	17	7	2	2	3	14	4	2	2	2	10	MLD	
NET	1	-	1	-	2	-	-	-	-	0	-	1	-	-	1	-	-	-	-	0	-	-	-	-	0	-	-	-	-	-	0	NET
NOR	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	1	15	-	1	17	1	-	-	-	1	-	-	-	-	-	0	NOR
POL	297	252	395	343	1287	335	197	251	356	1139	215	189	287	350	1041	275	183	224	263	945	198	67	81	103	449	143	99	195	190	627	POL	
POR	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	-	0	POR
ROM	33	20	11	49	113	-	-	-	-	0	-	-	-	-	0	35	23	15	14	87	26	20	50	32	128	32	20	20	19	91	ROM	
RUS	-	-	-	-	0	191	97	89	147	524	125	100	63	98	386	124	72	69	70	335	52	37	21	60	170	95	44	35	72	246	RUS	
SPA	-	1	4	1	6	1	-	-	2	3	-	-	1	-	1	1	-	-	-	1	1	-	-	-	1	1	-	-	-	-	1	SPA
SVK	55	47	29	36	167	43	30	22	34	129	23	35	37	29	124	18	27	25	16	86	24	19	17	28	88	77	50	45	64	236	SVK	
SVN	3	-	-	7	10	-	-	-	33	33	22	36	14	18	90	82	142	123	246	593	521	805	216	224	1766	283	174	77	74	608	SVN	
SWI	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	-	0	SWI
SWI	330	207	211	293	1041	265	204	232	351	1052	365	312	318	375	1370	376	250	277	287	1190	383	353	349	328	1413	381	305	258	285	1229	SWI	
TUR	-	-	889	316	1205	313	410	387	372	1482	517	454	316	308	1595	507	486	483	612	2088	497	638	587	538	2260	503	645	529	495	2172	TUR	
UKR	-	-	1	1	2	80	78	100	155	413	181	123	103	83	490	104	70	55	78	307	53	43	36	68	200	92	61	88	98	339	UKR	
UNK	1	-	-	1	2	-	-	-	1	1	-	-	-	-	0	-	-	-	-	0	-	-	1	-	1	-	-	-	-	-	0	UNK
YUG	14	12	-	109	135	-	-	-	257	257	88	55	30	41	214	87	44	31	33	195	78	23	6	56	163	131	35	16	58	240	YUG	
TOT.	4934	3289	4136	4462	16821	5163	3860	3966	4928	17917	5294	4014	3913	4921	18142	5953	4276	4321	4875	19425	5463	4700	4523	5346	20032	6907	5234	5009	6352	23502	TOT.	

TABLE 4.2.2

LOC. CODE	YEAR 1983				YEAR 1984				YEAR 1985				YEAR 1986				YEAR 1987				YEAR 1988				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
ALB	-	-	-	0	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
AUT	406	375	264	329	1374	401	441	303	277	1422	385	524	428	407	1744	367	348	297	375	1387	461	570	432	579	
BEL	208	119	80	109	516	129	87	112	177	503	91	49	137	169	446	116	62	80	84	342	53	46	55	88	
BUL	-	-	-	0	-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
BZE	17	13	10	10	50	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
CHD	146	104	47	212	509	366	190	104	191	851	233	95	63	135	526	138	52	20	57	267	53	26	29	62	
CZE	600	437	357	427	1821	669	493	503	441	2106	510	391	277	282	1460	308	262	294	381	1245	400	458	335	337	
DEU	-	-	-	0	-	2662	1931	2180	2298	9071	1989	1747	2197	2337	8270	1829	1391	1647	1963	6830	1658	1230	1295	1301	
EST	1	3	5	4	13	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	
FIN	-	-	-	0	-	1006	687	551	627	2871	579	425	505	504	2013	688	602	605	570	2465	660	478	432	498	
FRA	802	464	637	760	2863	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
GRE	1	-	-	1	-	465	156	183	371	1175	361	157	164	351	1033	368	172	240	484	1264	568	276	241	381	
HUN	-	-	-	0	-	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
ICE	-	-	-	0	-	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
IRE	-	-	-	448	-	128	141	54	31	354	49	45	25	3	122	10	17	2	-	29	-	-	-	-	
ITA	93	115	127	112	448	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
LIT	5	5	5	5	18	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
LUX	35	15	20	36	106	36	9	9	10	64	5	10	24	28	67	10	13	47	67	137	11	4	4	4	
LVA	5	13	7	9	34	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
MLD	3	4	2	2	11	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
NED	1	4	1	13	15	42	16	2	5	65	7	9	-	-	16	-	-	-	-	1	7	70	9	86	
NOR	-	-	-	0	-	382	284	395	455	1516	258	161	349	306	1074	227	145	306	409	1087	317	345	496	528	
POL	138	96	259	343	836	-	-	-	-	1516	-	-	-	-	1074	-	-	-	-	1087	-	-	-	-	
POR	-	-	-	0	-	-	-	-	-	1	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
ROM	23	14	9	15	61	90	16	17	18	141	22	25	8	23	78	25	24	12	12	126	18	10	13	9	
RUS	61	34	25	86	206	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
SPA	5	2	2	1	10	-	-	-	-	4	7	-	7	3	17	2	2	1	5	10	1	2	6	1	
SVK	59	29	71	110	269	133	70	46	89	338	64	41	40	43	190	85	61	33	66	245	65	46	58	84	
SVN	122	96	34	155	407	216	179	64	66	535	67	36	21	57	181	56	18	13	30	117	42	53	76	117	
SWZ	-	-	-	0	-	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
SWI	213	204	269	378	1064	370	269	179	110	928	87	96	140	89	412	76	46	41	35	198	24	26	24	25	
TUR	483	511	549	389	1932	337	456	381	316	1460	334	336	325	289	1284	271	348	311	336	1266	354	242	199	210	
UKR	61	47	46	112	266	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
UNK	-	-	-	0	-	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-	-	-	
YUG	113	51	22	47	233	79	37	25	86	227	51	27	28	20	126	39	20	12	44	115	42	34	17	48	
TOT.	6768	4744	5036	6454	23002	7511	5432	5110	5572	23625	5099	4175	4739	5061	19074	4615	3586	4059	4925	17185	4728	3865	3816	4289	
TOT.																									

TABLE 4.2.6

Human Rabies Cases in Europe 1977-1994

Country	Number of Cases	Imported Cases	Year
Austria	1		1979
Belarus	2		1989, 1993
Belgium	2	2 ¹⁾	1981, 1988
Bulgaria	1		1994
Czech Republic	1	1 ²⁾	1989
Estonia	4		1984, 1985, 1986, 1989
Finland	1 ³⁾		1985
France	5	5 ⁴⁾	1979, 1980, 1982, 1991, 1992
Germany	4	2 ⁵⁾	1978 ⁵⁾ , 1981, 1986 ⁵⁾ , 1990
Hungary	6	1 ⁶⁾	1978 ⁶⁾ , 1985(2), 1991, 1994(2)
Latvia	1		1993
Lithuania	3		1992(2), 1993
Poland	7	1 ⁷⁾	1977, 1979(2), 1980, 1983 ⁷⁾ , 1984, 1985
Romania	40		'77(3), '83(2), '84, '85(4), '86(4), 87(4), '88(3), '89(4), 90(4), '91(8), '92(3)
Russia, Europ. part	52		1985, 1989(6), 1990(11), 1991(16), 1992(9), 1993(5), 1994(4)
Slovakia	1		1990
Switzerland	3		1977
Turkey	40		1977(34), 1978(2), 1979(3), 1991(1)
Ukraine	7		1977, 1989(2), 1990(4)
United Kingdom	8	8 ⁸⁾	1977(2), 1978, 1981, 1986, 1987, 1988(2)
Yugoslavia	9	1 ⁹⁾	1977(2), 1978(2), 1979(2), 1980(2), 1989 ⁹⁾
Totals	198	21	

1) Imported from Ruanda and Zaire

2) Imported from Vietnam

3) Possibly of bat origin, but until now no confirmed bat rabies in the country

4) Imported from Tunisia, Egypt, Senegal, Mexico, Algeria

5) Imported from Egypt and India

6) Imported from Nigeria

7) Imported from Sudan

8) Imported from India (4), Pakistan (2), Zambia, Bangladesh

9) Imported from Algeria

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

TABLE 5.1

EUR		EUROPE						4/94						RABIES CASES						1.10.94 - 31.12.94	
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		2	-	1	-	2	-	5	56	5	-	3	-	64		69				
BEL	BELGIUM		-	1	12	-	3	-	16	22	-	-	-	22		38					
BUL	BULGARIA							0					4	4	1	5					
BYE	BELARUS		6	3	3	2	-	14	7	-	-	-	-	7		21					
CRO	CROATIA		1	2	-	-	1	-	4	167	-	1	-	168		172					
CZH	CZECH REPUBLIC		-	1	-	-	1	-	2	37	-	2	-	39		41					
DEN	DENMARK	*						0						0		0					
DEU	FED.REP. OF GERMANY		-	11	72	5	13	-	101	318	4	6	23	354		455					
EST	ESTONIA		3	4	1	-	-	-	8	9	1	-	3	13		21					
FIN	FINLAND	*						0						0		0					
FRA	FRANCE		1	2	1	-	-	-	4	6	-	-	-	6		10					
GRE	GREECE	*						0						0		0					
HUN	HUNGARY		25	62	14	-	-	-	101	316	-	1	3	320	2	423					
ICE	ICELAND	*						0						0		0					
IRE	IRELAND	*						0						0		0					
ITA	ITALY							0	6	-	-	-	-	6		6					
LTU	LITHUANIA		5	3	8	-	-	-	16	4	-	2	-	3		25					
LUX	LUXEMBOURG							0	0	1	-	-	-	1		1					
LVA	LATVIA		12	13	4	-	1	1	31	35	2	1	-	10		48					
MLD	MOLDOVA	**						0						0		0					
NET	NETHERLANDS	*						0						0		0					
NOR	NORWAY	*						0						0		0					
POL	POLAND		24	54	70	-	-	-	148	462	2	25	11	43	543	691					
POR	PORTUGAL	*						0						0		0					
ROM	ROMANIA		-	2	-	-	-	-	2	4	-	-	-	4		6					
RUS	RUSSIAN FEDERATION		31	18	135	7	1	-	192	31	-	-	1	1	33	225					
SPA	SPAIN		1	-	-	-	-	-	1					0		1					
SVK	SLOVAK REPUBLIC		11	17	-	1	-	-	29	111	-	3	1	3	118	147					
SVN	SLOVENIA		7	4	1	-	-	2	14	258	6	7	3	-	274	288					
SWE	SWEDEN	*						0						0		0					
SWI	SWITZERLAND + LIECHT		1	-	2	-	2	-	5	21	8	-	2	-	31	36					
TUR	TURKEY		9	1	2	-	-	-	12					0		12					
UKR	UKRAINE	**						0						0		0					
UNK	UNITED KINGDOM	*						0						0		0					
YUG	YUGOSLAVIA		-	4	-	-	1	-	5	7	-	1	-	8		13					
TOTAL			139	202	326	15	25	3	710	1878	28	49	47	70	2072	3	2785				
PER CENT			5.0	7.3	11.7	0.5	0.9	0.1	25.5	67.4	1.0	1.8	1.7	2.5	74.4	0.1	100.0				

* NO CASES ** NO DATA

TABLE 5.2

EUR		EUROPE						1994						RABIES CASES				1. 1.94 - 31.12.94	
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		2	7	13	1	2	25	194	21	3	9	2	229		254			
BEL	BELGIUM		-	1	14	-	3	18	43	-	-	-	-	43		61			
BUL	BULGARIA		3	1	1	-	1	6	2	-	-	-	4	6	1	13			
BYE	BELARUS	1)	11	6	6	4	-	27	13	-	-	-	-	13		40			
CRO	CROATIA		12	18	4	-	6	41	488	2	5	2	2	499		540			
CZH	CZECH REPUBLIC		6	5	-	-	2	13	191	2	11	3	1	208		221			
DEN	DENMARK	2)						0	-	-	-	-	3	3		3			
DEU	FED.REP. OF GERMANY		5	28	136	10	54	234	1044	28	18	48	6	1144		1378			
EST	ESTONIA		15	16	4	-	1	36	52	3	1	1	15	72		108			
FIN	FINLAND	*						0						0		0			
FRA	FRANCE		2	4	5	-	9	20	73	1	5	-	-	79		99			
GRE	GREECE	*						0						0		0			
HUN	HUNGARY		57	126	44	1	1	229	710	-	3	5	-	718	2	949			
ICE	ICELAND	*						0						0		0			
IRE	IRELAND	*						0						0		0			
ITA	ITALY							0	31	3	2	-	-	36		36			
LTU	LITHUANIA		14	10	15	-	-	39	15	-	3	-	6	24		63			
LUX	LUXEMBOURG							0	1	-	-	-	-	1		1			
LVA	LATVIA		42	30	8	-	1	82	144	9	4	-	39	196		278			
MLD	MOLDOVA	3)						0	1	-	-	-	-	1		1			
NET	NETHERLANDS							0	-	-	-	-	1	1		1			
NOR	NORWAY	*						0						0		0			
POL	POLAND		102	197	141	4	4	449	1497	8	91	46	136	1778		2227			
POR	PORTUGAL	*						0						0		0			
ROM	ROMANIA		6	6	4	3	-	19	13	-	-	-	-	13		32			
RUS	RUSSIAN FEDERATION		103	48	319	19	70	561	86	-	2	2	12	102	4	667			
SPA	SPAIN		2	-	-	-	-	2	-	-	-	-	1	1		3			
SVK	SLOVAK REPUBLIC		64	43	2	1	2	113	427	1	8	6	9	451		564			
SVN	SLOVENIA		12	10	4	1	-	30	750	21	18	19	1	809		839			
SWE	SWEDEN	*						0						0		0			
SWI	SWITZERLAND + LIECHT		2	3	10	1	9	25	167	26	2	5	-	200		225			
TUR	TURKEY		143	3	19	1	4	170						0		170			
UKR	UKRAINE	**						0						0		0			
UNK	UNITED KINGDOM	*						0						0		0			
YUG	YUGOSLAVIA		6	10	3	-	2	21	24	-	1	-	-	25		46			
TOTAL			609	572	752	46	171	2160	5966	125	177	146	238	6652	7	8819			
PER CENT			6.9	6.5	8.5	0.5	1.9	24.5	67.6	1.4	2.0	1.7	2.7	75.4	0.1	100.0			

* NO CASES ** NO DATA 1) THIRD QUARTER ONLY 2) CASES IMPORTED FROM USA 3) NO DATA FROM 2ND TO 4TH QUARTER

TABLE 5.3

EUR EUROPE 4/94		RABIES CASES 'OTHER ANIMAL SPECIES'							1.10.94 - 31.12.94		
LOCATION		OTHER DOMESTIC ANIMALS		OTHER WILD ANIMALS					UNSPECI- FIED	TOTAL	
CODE	NAME	PIG	DOMESTIC. RABBIT	RACCOON DOG	LYNX	WILD BOAR	MOUFLON	SQUIRREL			BLACK RAT
BUL	BULGARIA	-	-	-	-	-	-	-	-	4	4
DEU	FED.REP. OF GERMANY	-	-	-	-	1	1	1	-	-	3
EST	ESTONIA	-	-	3	-	-	-	-	-	-	3
LTU	LITHUANIA	-	-	3	-	-	-	-	-	-	3
LVA	LATVIA	1	-	10	-	-	-	-	-	-	11
POL	POLAND	-	-	42	1	-	-	-	-	-	43
RUS	RUSSIAN FEDERATION	-	-	1	-	-	-	-	-	-	1
SVK	SLOVAK REPUBLIC	-	-	-	-	2	-	-	1	-	3
SVN	SLOVENIA	-	2	-	-	-	-	-	-	-	2
TOTAL		1	2	59	1	3	1	1	1	4	73
PER CENT		1.4	2.7	80.8	1.4	4.1	1.4	1.4	1.4	5.5	100.0

TABLE 5.5 RABIES CASE RATES (% TOTAL) FOR INDIVIDUAL ANIMAL SPECIES AND FOR TOTAL CASES OF 10 EUROPEAN COUNTRIES RANKING HIGHEST IN 1994.

EUR		EUROPE											1994		1. 1.94 - 31.12.94	
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
EUROPE																
TOTAL RABIES CASES		609	572	752	46	171	10	2160	5966	125	177	146	238	6652	7	8819
PER CENT INVOLVEMENT / COUNTRY																
POL	POLAND	16.7	34.4	18.8	8.7	2.3	10.0	20.8	25.1	6.4	51.4	31.5	57.1	26.7		25.3
DEU	FED.REP. OF GERMANY	0.8	4.9	18.1	21.7	31.6	10.0	10.8	17.5	22.4	10.2	32.9	2.5	17.2		15.6
HUN	HUNGARY	9.4	22.0	5.9	2.2	0.6	-	10.6	11.9	-	1.7	3.4	-	10.8	28.6	10.8
SVN	SLOVENIA	2.0	1.7	0.5	2.2	-	30.0	1.4	12.6	16.8	10.2	13.0	0.4	12.2		9.5
RUS	RUSSIAN FEDERATION	16.9	8.4	42.4	41.3	40.9	20.0	26.0	1.4	-	1.1	1.4	5.0	1.5	57.1	7.6
SVK	SLOVAK REPUBLIC	10.5	7.5	0.3	2.2	1.2	10.0	5.2	7.2	0.8	4.5	4.1	3.8	6.8		6.4
CRO	CROATIA	2.0	3.1	0.5	-	3.5	10.0	1.9	8.2	1.6	2.8	1.4	0.8	7.5		6.1
LVA	LATVIA	6.9	5.2	1.1	-	0.6	10.0	3.8	2.4	7.2	2.3	-	16.4	2.9		3.2
AUT	AUSTRIA	0.3	1.2	1.7	2.2	1.2	-	1.2	3.3	16.8	1.7	6.2	0.8	3.4		2.9
SWI	SWITZERLAND + LIECHT	0.3	0.5	1.3	2.2	5.3	-	1.2	2.8	20.8	1.1	3.4	-	3.0		2.6
TOTAL FROM 10 COUNTRIES		401	510	681	38	149	10	1789	5507	116	154	142	207	6126	6	7921
EQUAL % TOTAL		65.8	89.2	90.6	82.6	87.1	100.0	82.8	92.3	92.8	87.0	97.3	87.0	92.1	85.7	89.8

RABIES CASES

1.10.94 - 31.12.94

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
AUT AUSTRIA																
105	JENNERSDORF							0	2	-	-	-	-	2		2
107	NEUSIEDL AM SEE							0	6	-	-	-	-	6		6
204	KLAGENFURT-LAND	1	-	-	-	-	-	1	7	-	-	-	-	7		8
207	VILLACH-LAND	1	-	-	-	-	-	1	12	1	-	1	-	14		15
604	FELDBACH							0	5	-	-	-	-	5		5
605	FUERSTENFELD							0	1	-	-	-	-	1		1
615	RADKERSBURG							0	12	-	-	-	-	12		12
703	INNSBRUCK-LAND							0	1	-	-	-	-	1		1
705	KUFSTEIN							0	1	-	-	1	-	2		2
708	REUTTE	-	-	1	-	-	-	1	7	4	-	-	-	11		12
709	SCHWAZ							0	1	-	-	-	-	1		1
802	BREGENZ	-	-	-	-	2	-	2	1	-	-	1	-	2		4
TOTAL		2	0	1	0	2	0	5	56	5	0	3	0	64	0	69
PER CENT		2.9	0.0	1.4	0.0	2.9	0.0	7.2	81.2	7.2	0.0	4.3	0.0	92.8	0.0	100.0
CZH CZECH REPUBLIC																
01	CENTRAL BOHEMIA							0	6	-	-	-	-	6		6
02	SOUTH BOHEMIA							0	3	-	1	-	-	4		4
04	NORTH BOHEMIA							0	14	-	1	-	-	15		15
05	EAST BOHEMIA							0	3	-	-	-	-	3		3
06	SOUTH MORAVIA	-	1	-	-	-	-	1	1	-	-	-	-	1		2
07	NORTH MORAVIA	-	-	-	-	1	-	1	10	-	-	-	-	10		11
TOTAL		0	1	0	0	1	0	2	37	0	2	0	0	39	0	41
PER CENT		0.0	2.4	0.0	0.0	2.4	0.0	4.9	90.2	0.0	4.9	0.0	0.0	95.1	0.0	100.0
SVK SLOVAK REPUBLIC																
10	DISTRICT OF BRATISLAV							0	1	-	-	-	-	1		1
11	WEST SLOVAKIA	2	3	-	1	-	-	6	26	-	-	-	-	26		32
12	CENTRAL SLOVAKIA	2	4	-	-	-	-	6	23	-	1	-	-	24		30
13	EAST SLOVAKIA	7	10	-	-	-	-	17	61	-	2	1	3	67		84
TOTAL		11	17	0	1	0	0	29	111	0	3	1	3	118	0	147
PER CENT		7.5	11.6	0.0	0.7	0.0	0.0	19.7	75.5	0.0	2.0	0.7	2.0	80.3	0.0	100.0

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R A B I E S C A S E S																1.10.94 - 31.12.94	
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	
BEL B E L G I U M																	
LX	LUXEMBOURG	-	1	12	-	3	-	16	21	-	-	-	-	21		37	
NA	NAMUR							0	1	-	-	-	-	1		1	
TOTAL		0	1	12	0	3	0	16	22	0	0	0	0	22	0	38	
PER CENT		0.0	2.6	31.6	0.0	7.9	0.0	42.1	57.9	0.0	0.0	0.0	0.0	57.9	0.0	100.0	
FRA F R A N C E																	
54	MEURTHE ET MOSELLE	-	-	1	-	-	-	1						0		1	
55	MEUSE							0	1	-	-	-	-	1		1	
57	MOSELLE	1	-	-	-	-	-	1	2	-	-	-	-	2		3	
60	OISE							0	1	-	-	-	-	1		1	
67	RHIN (BAS)	-	1	-	-	-	-	1						0		1	
88	VOSGES	-	1	-	-	-	-	1	2	-	-	-	-	2		3	
TOTAL		1	2	1	0	0	0	4	6	0	0	0	0	6	0	10	
ITA I T A L Y																	
34	TRIESTE E GORIZIA							0	6	-	-	-	-	6		6	
SPA S P A I N																	
52	MELILLA (NORTH AFRICA)	1	-	-	-	-	-	1						0		1	

R A B I E S C A S E S															1.10.94 - 31.12.94	
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
BUL B U L G A R I A																
14	PLEVEN							0	-	-	-	-	1	1		1
22	STARA ZAGORA							0	-	-	-	-	1	1		1
24	TARGOVITCHE							0	-	-	-	-	1	1	1	2
25	V.TARNOVO							0	-	-	-	-	1	1		1
TOTAL		0	0	0	0	0	0	0	0	0	0	0	4	4	1	5
BYE B E L A R U S																
01	Brest Region	-	1	-	-	-	-	1						0		1
02	Vitebsk Region	-	1	2	-	-	-	3						0		3
03	Gomel Region	5	-	-	-	-	-	5	1	-	-	-	-	1		6
04	Grodno Region	1	-	-	-	-	-	1	2	-	-	-	-	2		3
05	Minsk Region	-	1	1	-	-	-	2	2	-	-	-	-	2		4
06	Mogilev Region	-	-	-	2	-	-	2	2	-	-	-	-	2		4
TOTAL		6	3	3	2	0	0	14	7	0	0	0	0	7	0	21
PER CENT		28.6	14.3	14.3	9.5	0.0	0.0	66.7	33.3	0.0	0.0	0.0	0.0	33.3	0.0	100.0
ROM R O M A N I A																
01	ALBA							0	1	-	-	-	-	1		1
04	BACAU							0	1	-	-	-	-	1		1
20	GORJ							0	1	-	-	-	-	1		1
31	SATU-MARE	-	1	-	-	-	-	1						0		1
40	VRANCEA	-	1	-	-	-	-	1	1	-	-	-	-	1		2
TOTAL		0	2	0	0	0	0	2	4	0	0	0	0	4	0	6

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CRO CROATIA		RABIES CASES												1.10.94 - 31.12.94		
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
004	BJELOVAR							0	6	-	-	-	-	6		6
006	BUJE							0	5	-	-	-	-	5		5
007	BUZET							0	13	-	-	-	-	13		13
009	CRIKVENICA							0	3	-	-	-	-	3		3
010	CABAR							0	3	-	-	-	-	3		3
011	CAKOVEC							0	1	-	-	-	-	1		1
012	CAZMA							0	1	-	-	-	-	1		1
013	DARUVAR							0	1	-	-	-	-	1		1
014	DELNICE							0	1	-	-	-	-	1		1
021	DUGO SELO	1	-	-	-	-	-	1	5	-	-	-	-	5		6
023	DAKOVO							0	1	-	-	-	-	1		1
024	DURDEVAC							0	1	-	-	-	-	1		1
025	GARESINICA							0	1	-	-	-	-	1		1
032	IVANEC							0	3	-	-	-	-	3		3
033	IVANIC GRAD							0	1	-	-	-	-	1		1
034	JASTREBARSKO							0	1	-	-	-	-	1		1
038	KLANJEC							0	4	-	-	-	-	4		4
040	KOPRIVNICA							0	5	-	-	-	-	5		5
044	KRIZEVCI	-	1	-	-	-	-	1	14	-	-	-	-	14		15
046	KUTINA							0	1	-	-	-	-	1		1
047	LABIN							0	1	-	-	-	-	1		1
052	NASICE							0	2	-	-	-	-	2		2
054	NOVI MAROF							0	1	-	-	-	-	1		1
055	NOVSKA							0	1	-	-	-	-	1		1
061	OSIJEK							0	1	-	-	-	-	1		1
062	OTOCAC							0	1	-	-	-	-	1		1
063	OTALJ							0	2	-	-	-	-	2		2

CRO CONTINUED																
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
066	PAZIN						0	5	-	1	-	-	6		6	
068	PODRAVSKA SLATINA						0	1	-	-	-	-	1		1	
069	POREC	-	-	-	-	1	1	1	-	-	-	-	1		2	
070	PREGRADA						0	3	-	-	-	-	3		3	
073	RIJEKA						0	1	-	-	-	-	1		1	
075	SENJ						0	1	-	-	-	-	1		1	
076	SINJ						0	6	-	-	-	-	6		6	
078	POZEGA						0	2	-	-	-	-	2		2	
079	SLAVONSKI BROD						0	4	-	-	-	-	4		4	
081	SOLIN						0	1	-	-	-	-	1		1	
082	SPLIT						0	1	-	-	-	-	1		1	
083	SIBENIK						0	1	-	-	-	-	1		1	
085	TROGIR						0	2	-	-	-	-	2		2	
087	VARAZDIN						0	2	-	-	-	-	2		2	
088	VINKOVCI						0	3	-	-	-	-	3		3	
092	VRBOVEC						0	29	-	-	-	-	29		29	
093	VRBOVSKO						0	1	-	-	-	-	1		1	
097	ZABOK	-	1	-	-	-	1	1	-	-	-	-	0		1	
098	ZADAR						0	2	-	-	-	-	2		2	
099	SVETI IVAN ZELINA						0	3	-	-	-	-	3		3	
100	ZLATAR BISTRICA						0	4	-	-	-	-	4		4	
102	GRAD ZAGREB						0	14	-	-	-	-	14		14	
TOTAL		1	2	0	0	1	0	4	167	0	1	0	0	168	0	172
PER CENT		0.6	1.2	0.0	0.0	0.6	0.0	2.3	97.1	0.0	0.6	0.0	0.0	97.7	0.0	100.0

4th Quarter: October - December 1994

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R A B I E S C A S E S															1 . 1 0 . 9 4 - 3 1 . 1 2 . 9 4	
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
DEU F E D E R A L R E P U B L I C O F G E R M A N Y																
01	SCHLESWIG-HOLSTEIN							0						0		0
02	HAMBURG							0						0		0
03	NIEDERSACHSEN							0						0		0
04	BREMEN							0						0		0
05	NORDRHEIN-WESTFALEN	-	-	35	2	3	-	40	124	2	1	16	-	143		183
06	HESSEN	-	-	5	-	1	-	6	27	-	-	4	-	31		37
07	RHEINLAND-PFALZ	-	4	6	-	3	-	13	46	1	2	1	1	51		64
08	BADEN-WUERTEMBERG	-	-	2	-	-	-	2	9	-	-	-	-	9		11
09	BAYERN	-	2	3	-	-	-	5	22	1	1	-	-	24		29
10	SAARLAND	-	5	21	3	6	-	35	90	-	2	2	2	96		131
11	Berlin							0						0		0
12	Brandenburg							0						0		0
13	Mecklenb.-Vorpommern							0						0		0
14	Sachsen							0						0		0
15	Sachsen-Anhalt							0						0		0
16	Thueringen							0						0		0
TOTAL		0	11	72	5	13	0	101	318	4	6	23	3	354	0	455
PER CENT		0.0	2.4	15.8	1.1	2.9	0.0	22.2	69.9	0.9	1.3	5.1	0.7	77.8	0.0	100.0
LUX L U X E M B O U R G																
13	REMICH							0	1	-	-	-	-	1		1

R A B I E S C A S E S															1.10.94 - 31.12.94	
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
EST E S T O N I A																
01	Harjumaa	-	1	-	-	-	-	1	-	-	-	-	2	2		3
05	Jaervamaa							0	1	-	-	-	-	1		1
08	Pclvamaa	3	-	-	-	-	-	3	6	1	-	-	-	7		10
09	Paernumaa	-	1	-	-	-	-	1						0		1
10	Raplamaa							0	1	-	-	-	-	1		1
13	Valgamaa	-	1	-	-	-	-	1						0		1
14	Viljandimaa	-	1	-	-	-	-	1						0		1
15	Vorumaa	-	-	1	-	-	-	1	1	-	-	-	1	2		3
TOTAL		3	4	1	0	0	0	8	9	1	0	0	3	13	0	21
PER CENT		14.3	19.0	4.8	0.0	0.0	0.0	38.1	42.9	4.8	0.0	0.0	14.3	61.9	0.0	100.0
LTU L I T H U A N I A																
36	Birzu	-	-	2	-	-	-	2	1	-	-	-	2	3		5
43	Zarasu	-	-	1	-	-	-	1						0		1
47	Joniskio	-	1	2	-	-	-	3	1	-	1	-	-	2		5
54	Kelmes	1	-	-	-	-	-	1						0		1
65	Pakruojo							0	-	-	-	-	1	1		1
66	Panevezio	3	-	-	-	-	-	3						0		3
67	Pasvalio	-	1	-	-	-	-	1						0		1
68	Plunges	-	-	1	-	-	-	1						0		1
71	Radviliskio	-	-	1	-	-	-	1						0		1
78	Telsiu	-	-	1	-	-	-	1						0		1
81	Ukmerges	1	-	-	-	-	-	1						0		1
89	Sirvintu							0	-	-	1	-	-	1		1
91	Siauliu	-	1	-	-	-	-	1						0		1
94	Jurbarko							0	2	-	-	-	-	2		2
TOTAL		5	3	8	0	0	0	16	4	0	2	0	3	9	0	25
PER CENT		20.0	12.0	32.0	0.0	0.0	0.0	64.0	16.0	0.0	8.0	0.0	12.0	36.0	0.0	100.0

HUN		HUNGARY											RABIES CASES				1.10.94 - 31.12.94	
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	BUDAPEST	1	-	-	-	-	-	1	1	-	-	-	-	1	2	4		
02	BARANYA	8	13	-	-	-	-	21	26	-	-	-	-	26		47		
03	BACS-KISKUN	2	5	2	-	-	-	9	28	-	-	-	-	28		37		
04	BEKES	1	-	1	-	-	-	2	10	-	-	-	-	10		12		
05	BORSOD-ABAUJ-ZEMPLEN	1	3	2	-	-	-	6	18	-	-	-	-	18		24		
06	CSONGRAD	-	2	2	-	-	-	4	9	-	-	-	-	9		13		
07	FEJER	2	1	-	-	-	-	3	43	-	-	-	-	43		46		
08	GYOER-SOPRON	-	1	-	-	-	-	1	7	-	-	-	-	7		8		
09	HAJDU-BIHAR	1	-	2	-	-	-	3	12	-	-	-	-	12		15		
10	HEVES	-	4	-	-	-	-	4	9	-	-	-	-	9		13		
11	KOMAROM	-	1	-	-	-	-	1	13	-	-	-	-	13		14		
12	NOGRAD	-	1	-	-	-	-	1	4	-	-	-	-	4		5		
13	PEST	4	5	2	-	-	-	11	20	-	-	-	-	20		31		
14	SOMOGY	4	14	-	-	-	-	18	35	-	1	2	-	38		56		
15	SZABOLCS-SZATMAR	1	1	1	-	-	-	3	20	-	-	-	-	20		23		
16	SZOLNOK	-	2	2	-	-	-	4	4	-	-	-	-	4		8		
17	TOLNA	-	6	-	-	-	-	6	14	-	-	1	-	15		21		
18	VAS	-	-	-	-	-	-	0	3	-	-	-	-	3		3		
19	VESZPREM	-	2	-	-	-	-	2	19	-	-	-	-	19		21		
20	ZALA	-	1	-	-	-	-	1	21	-	-	-	-	21		22		
TOTAL		25	62	14	0	0	0	101	316	0	1	3	0	320	2	423		
PER CENT		5.9	14.7	3.3	0.0	0.0	0.0	23.9	74.7	0.0	0.2	0.7	0.0	75.7	0.5	100.0		

LVA LATVIA

RABIES CASES

1.10.94 - 31.12.94

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	Aizkraukle	-	2	-	-	-	-	2	1	-	-	-	1	2		4
03	Balvi	-	-	-	-	-	-	0	1	-	-	-	-	1		1
04	Bauska	2	-	-	-	-	-	2	3	-	-	-	-	3		5
05	Cesis	1	-	-	-	-	-	1	-	1	-	-	1	2		3
06	Daugavpils	-	1	-	-	-	-	1	3	-	-	-	-	3		4
10	Jelgava	-	1	-	-	-	-	1	1	-	-	-	-	1		2
12	Kuldiga	-	-	-	-	-	1	1	2	-	-	-	-	2		3
13	Liepaja	1	1	-	-	-	-	2	6	1	-	-	-	7		9
14	Limbezi	1	-	-	-	-	-	1	3	-	-	-	-	3		4
16	Madona	-	-	-	-	-	-	0	1	-	-	-	1	2		2
17	Ogre	6	1	3	-	-	-	10	2	-	1	-	-	3		13
19	Rezekne	-	-	-	-	-	-	0	-	-	-	-	1	1		1
20	Riga	1	1	-	-	-	-	2	3	-	-	-	1	4		6
21	Saldus	-	1	-	-	-	-	1	6	-	-	-	3	9		10
22	Talsi	-	1	-	-	-	-	1	-	-	-	-	0		1	
23	Tukums	-	2	1	-	1	-	4	2	-	-	-	2	4		8
26	Ventpils	-	2	-	-	-	-	2	1	-	-	-	-	1		3
TOTAL		12	13	4	0	1	1	31	35	2	1	0	10	48	0	79
PER CENT		15.2	16.5	5.1	0.0	1.3	1.3	39.2	44.3	2.5	1.3	0.0	12.7	60.8	0.0	100.0

4th Quarter: October - December 1994

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POL POLAND		RABIES CASES												1.10.94 - 31.12.94	
LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS		
01	WARSZAWA	1	-	-	-	-	-	1	2	-	-	-	-	2	3
05	BIALYSTOK	-	-	4	-	-	-	4	8	-	1	-	1	10	14
07	BIELSKO-BIALA	1	3	-	-	-	-	4	14	-	6	-	-	20	24
09	BYDGOSZCZ	-	5	8	-	-	-	13	21	-	1	-	6	28	41
11	CHELM	-	-	-	-	-	-	0	1	-	-	-	-	1	1
13	CIECHANOW	-	-	1	-	-	-	1	1	-	-	-	-	1	2
15	CZESTOCHOWA	-	-	-	-	-	-	0	3	-	-	-	-	3	3
17	ELBLAG	1	-	6	-	-	-	7	1	-	-	-	2	3	10
19	GDANSK	-	2	8	-	-	-	10	27	1	2	3	5	38	48
23	JELENIA GORA	2	1	2	-	-	-	5	16	-	1	-	-	17	22
25	KALISZ	-	1	-	-	-	-	1	20	-	-	-	-	20	21
27	KATOWICE	1	1	-	-	-	-	2	15	-	2	3	-	20	22
29	KIELCE	-	-	-	-	-	-	0	3	-	1	-	-	4	4
31	KONIN	-	1	-	-	-	-	1	9	-	-	-	1	10	11
33	KOSZALIN	3	1	-	-	-	-	4	6	-	1	1	1	9	13
35	KRAKOW	-	1	-	-	-	-	1	-	-	-	-	-	0	1
37	KROSNO	-	-	-	-	-	-	0	4	-	-	-	-	4	4
39	LEGNICA	1	2	-	-	-	-	3	9	-	-	-	-	9	12
41	LESZNO	-	1	-	-	-	-	1	29	-	2	2	1	34	35
43	LUBLIN	-	-	-	-	-	-	0	3	-	-	-	-	3	3
47	LODZ	2	1	-	-	-	-	3	3	-	-	-	-	3	6
51	OLSZTYN	-	-	6	-	-	-	6	4	-	-	-	11	15	21
53	OPOLE	2	6	6	-	-	-	14	46	1	-	-	-	47	61
55	OSTROLEKA	-	-	-	-	-	-	0	2	-	-	-	-	2	2
57	PILA	-	-	-	-	-	-	0	7	-	-	-	1	8	8
59	PIOTRKOW TRYB	-	1	-	-	-	-	1	20	-	-	-	-	20	21
61	PLOCK	-	-	1	-	-	-	1	2	-	-	-	-	2	3
63	POZNAN	2	6	-	-	-	-	8	35	-	-	-	2	37	45
65	PRZEMYSL	1	-	-	-	-	-	1	3	-	1	-	-	4	5
69	RZESZOW	-	2	-	-	-	-	2	13	-	1	-	-	14	16
71	SIEDLCE	-	-	-	-	-	-	0	2	-	-	-	-	2	2
73	SIERADZ	1	2	-	-	-	-	3	3	-	-	-	-	3	6
75	SKIERNIEWICE	1	-	1	-	-	-	2	12	-	-	-	-	12	14
77	SLUPSK	1	3	1	-	-	-	5	4	-	-	2	-	6	11
79	SUWALKI	-	2	15	-	-	-	17	12	-	-	-	8	20	37
83	TARNOBRZEG	1	1	-	-	-	-	2	10	-	2	-	-	12	14
85	TARNOW	-	1	-	-	-	-	1	-	-	-	-	-	0	1
87	TORUN	-	-	8	-	-	-	8	16	-	2	-	4	22	30
89	WALBRZYCH	2	2	1	-	-	-	5	20	-	2	-	-	22	27
91	WLOCLAWEK	-	1	-	-	-	-	1	1	-	-	-	-	1	2
93	WROCLAW	-	6	-	-	-	-	6	41	-	-	-	-	41	47
95	ZAMOSC	1	1	2	-	-	-	4	12	-	-	-	-	12	16
97	ZIELONA GORA	-	-	-	-	-	-	0	2	-	-	-	-	2	2
TOTAL		24	54	70	0	0	0	148	462	2	25	11	43	543	691
PER CENT		3.5	7.8	10.1	0.0	0.0	0.0	21.4	66.9	0.3	3.6	1.6	6.2	78.6	100.0

RUS		RUSSIAN FEDERATION											R A B I E S C A S E S					1.10.94 - 31.12.94	
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						0	2				
15	Moscow Region							0	3	-	-	-	1	4	4				
16	Oryol Region	1	1	2	-	-	-	4						0	4				
21	Nizhniy Novgorod Regi	-	-	1	-	-	-	1						0	1				
26	Belgorod Region	-	3	13	-	-	-	16	8	-	-	-	-	8	24				
27	Voronezh Region	3	1	20	1	-	-	25	3	-	-	1	-	4	29				
28	Kursk Region	3	3	-	1	-	-	7						0	7				
31	Astrakhan Region	2	1	5	1	-	-	9	1	-	-	-	-	1	10				
32	Volgograd Region	6	2	9	-	-	-	17	3	-	-	-	-	3	20				
33	Samara Region	-	1	4	-	-	-	5	1	-	-	-	-	1	6				
34	Penza Region	1	2	1	-	-	-	4	1	-	-	-	-	1	5				
35	Saratov Region	2	-	3	-	-	-	5	2	-	-	-	-	2	7				
36	Ulyanovsk Region	-	1	3	-	-	-	4						0	4				
37	Republic of Kalmykiya	-	2	3	-	-	-	5						0	5				
38	Republic of Tatarstan	-	-	1	-	-	-	1						0	1				
39	Krasnodar Territory	-	-	10	-	-	-	10						0	10				
41	Rostov Region	1	1	4	-	1	-	7	1	-	-	-	-	1	8				
42	Orenburg Region	8	-	30	2	-	-	40	7	-	-	-	-	7	47				
44	Republic of Bashkorto	2	-	22	2	-	-	26	1	-	-	-	-	1	27				
45	Republic of Odmurtiya	1	-	-	-	-	-	1						0	1				
46	Kaliningrad Region	-	-	3	-	-	-	3						0	3				
TOTAL		31	18	135	7	1	0	192	31	0	0	1	1	33	0	225			
PER CENT		13.8	8.0	60.0	3.1	0.4	0.0	85.3	13.8	0.0	0.0	0.4	0.4	14.7	0.0	100.0			

SVN		SLOVENIA						RABIES CASES						1.10.94 - 31.12.94		
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		
02	BREZICE							0	8	-	-	-	-	8		8
04	CERKNICA							0	4	-	-	-	-	4		4
05	CRNOMELJ							0	7	-	-	-	-	7		7
06	DOMZALE							0	6	-	1	-	-	7		7
08	GORNJA RADGONA							0	3	-	-	-	-	3		3
09	GROSUPLJE	1	-	-	-	-	-	1	17	-	-	-	-	17		18
11	IDRIJA							0	-	1	-	-	-	1		1
12	ILIRSKA BISTRICA							0	-	-	1	-	-	1		1
15	KAMNIK	-	1	-	-	-	1	2	15	-	-	2	-	17		19
16	KOCEVJE							0	6	-	-	-	-	6		6
17	KOPER	1	-	-	-	-	-	1	2	-	1	-	-	3		4
18	KRANJ	-	-	1	-	-	-	1	32	2	-	-	-	34		35
21	LENART							0	1	-	-	-	-	1		1
22	LENDAVA							0	11	-	-	-	-	11		11
23	LITIJA							0	2	-	-	-	-	2		2
26	LJUBLJANA MOSTE POLJE							0	3	-	-	-	-	3		3
27	LJUBLJANA SSKA							0	13	-	-	-	-	13		13
28	LJUBLJANA VIC RUDNIK	1	-	-	-	-	-	1	9	-	-	-	-	9		10
29	LJUTOMER							0	3	-	-	-	-	3		3
30	LOGATEC							0	1	-	-	-	-	1		1
36	MURSKA SOBOTA	2	3	-	-	-	-	5	75	1	2	-	-	78		83
37	NOVA GORICA							0	1	-	-	-	-	1		1
38	NOVO MESTO							0	7	-	-	-	-	7		7
39	ORMOZ							0	1	1	-	-	-	2		2
42	PTUJ							0	7	-	-	-	-	7		7
44	RADOVLJICA							0	-	-	-	1	-	2		2
45	RIBNICA							0	2	-	-	-	-	2		2
48	SEZANA							0	2	1	-	-	-	3		3
50	SLOVENSKA BISTRICA							0	4	-	-	-	-	4		4
51	SLOVENSKE KONJICE							0	2	-	-	-	-	2		2
52	SENTJUR PRI CELJU							0	1	-	-	-	-	1		1
53	SKOFJA LOKA	-	-	-	-	-	1	1	4	-	1	-	-	5		6
54	SMARJE PRI JELSAH	1	-	-	-	-	-	1	6	-	-	-	-	6		7
55	TOLMIN							0	1	-	-	-	-	1		1
58	TRZIC							0	2	-	-	-	-	2		2
59	VELENJE	1	-	-	-	-	-	1						0		1
TOTAL		7	4	1	0	0	2	14	258	6	7	3	0	274	0	288
PER CENT		2.4	1.4	0.3	0.0	0.0	0.7	4.9	89.6	2.1	2.4	1.0	0.0	95.1	0.0	100.0

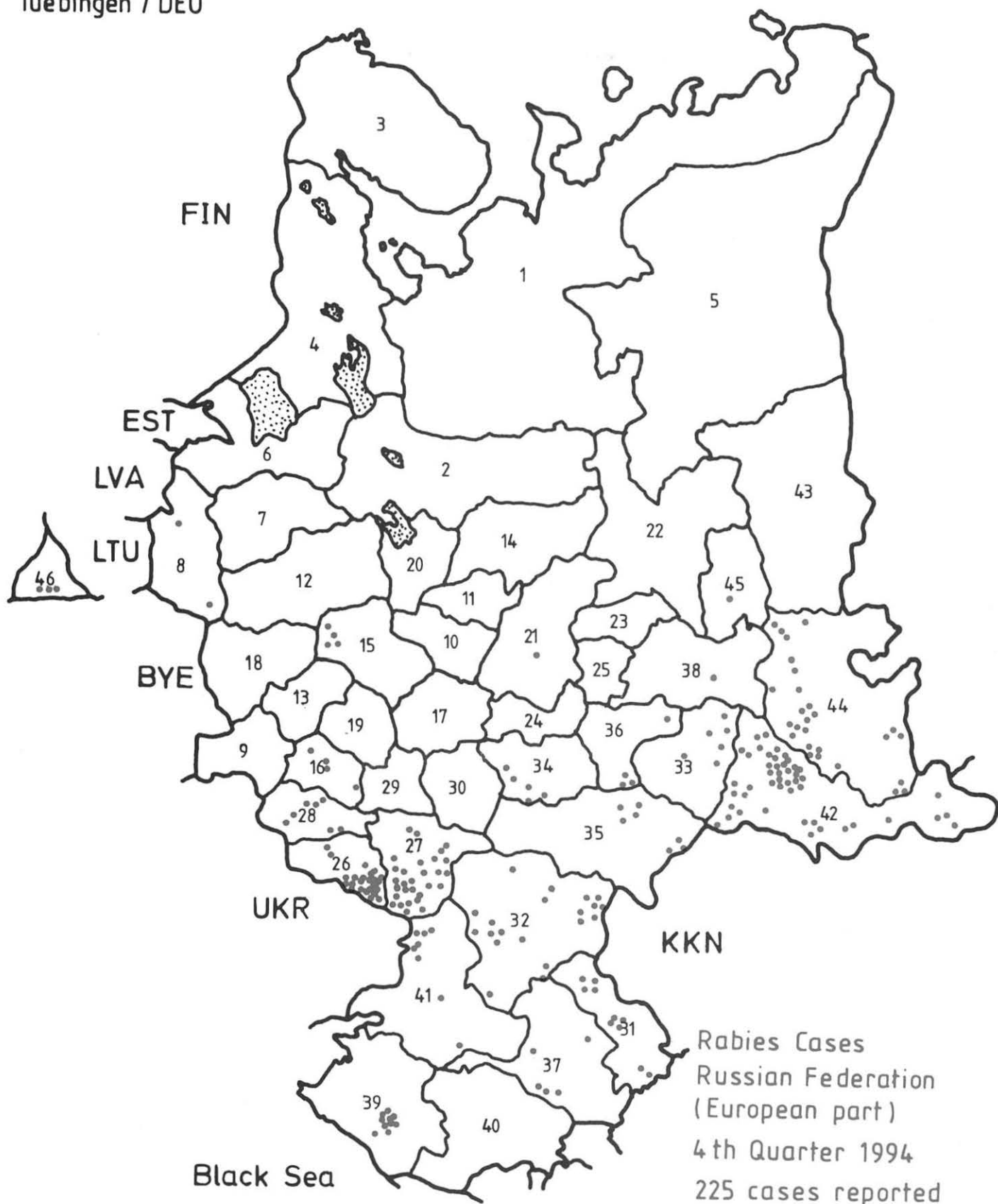
R A B I E S C A S E S

1.10.94 - 31.12.94

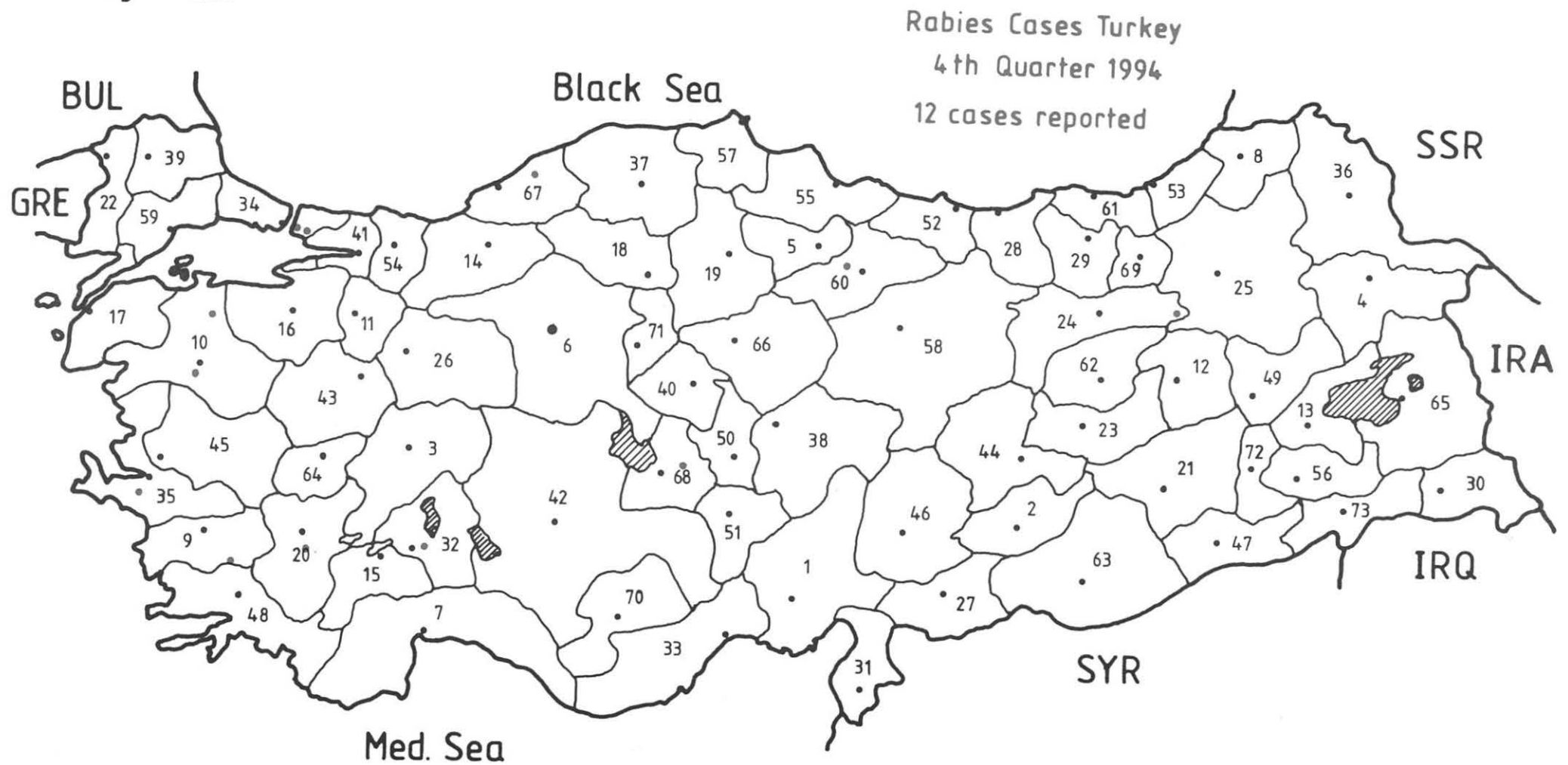
LOCATION CODE NAME		D O M E S T I C A N I M A L S						W I L D A N I M A L S						HUMAN CASES	TOTAL	
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL
SWI S W I T Z E R L A N D A N D L I E C H T E N S T E I N																
01	AARGAU	1	-	-	-	1	-	2	14	2	-	2	-	18		20
05	BASEL-LAND	-	-	2	-	-	-	2	2	2	-	-	-	4		6
06	BERN	-	-	-	-	-	-	0	1	-	-	-	-	1		1
12	NEUCHATEL	-	-	-	-	-	-	0	1	-	-	-	-	1		1
17	SOLOTHURN	-	-	-	-	1	-	1	1	3	-	-	-	4		5
26	JURA	-	-	-	-	-	-	0	2	1	-	-	-	3		3
TOTAL		1	0	2	0	2	0	5	21	8	0	2	0	31	0	36
PER CENT		2.8	0.0	5.6	0.0	5.6	0.0	13.9	58.3	22.2	0.0	5.6	0.0	86.1	0.0	100.0
TUR T U R K E Y																
09	AYDIN	1	-	-	-	-	-	1						0		1
10	BALIKESIR	1	-	1	-	-	-	2						0		2
20	DENIZLI	1	-	-	-	-	-	1						0		1
24	ERZINCAN	-	-	1	-	-	-	1						0		1
32	ISPARTA	1	-	-	-	-	-	1						0		1
34	ISTANBUL	2	-	-	-	-	-	2						0		2
35	IZMIR	1	-	-	-	-	-	1						0		1
60	TOKAT	-	1	-	-	-	-	1						0		1
67	ZONGULDAK	1	-	-	-	-	-	1						0		1
68	AKSARAY	1	-	-	-	-	-	1						0		1
TOTAL		9	1	2	0	0	0	12	0	0	0	0	0	0	0	12
PER CENT		75.0	8.3	16.7	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
YUG Y U G O S L A V I A																
20	SR CRNA GORA	-	-	-	-	1	-	1						0		1
60	SR SRBIJA	-	1	-	-	-	-	1	2	-	-	-	-	2		3
61	SAP VOJVODINA	-	3	-	-	-	-	3	5	-	1	-	-	6		9
TOTAL		0	4	0	0	1	0	5	7	0	1	0	0	8	0	13
PER CENT		0.0	30.8	0.0	0.0	7.7	0.0	38.5	53.8	0.0	7.7	0.0	0.0	61.5	0.0	100.0

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Rabies Cases Europe
4th Quarter 1994
2785 cases reported



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