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The RABIES BULLETIN EUROPE is compiled and edited by the

WHO Collaborating Centre for Rabies Surveillance and Research

Dr. L.G. S c h n e i d e r, Chief
 Dr. W.W. M u e l l e r, Ass.Chief
 K.-P. H o h n s b e e n, Statistician

At the
 Federal Research Institute for Animal
 Virus Diseases

D 7400 TUEBINGEN, Postfach 1149
 Federal Republic of Germany

Tel. 07071 - 603 332 TELEX: 07 26 28 46

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1. INTRODUCTION

This BULLETIN describes the reported rabies cases in Europe for the fourth quarter 1984. The situation in general appears under 2., and in individual countries under 2.1 to 2.27.

Rabies data for the year 1984 have not yet been received for the European part of the Union of Soviet Socialist Republics (USSR).

In the miscellaneous section under 3.1 a review is given of all rabies cases reported to the Collaborating Centre for Rabies Surveillance and Research, Tübingen, from its beginning in 1977. They are partly analyzed. In 3.2 a human rabies case in Poland is described and in 3.3 a summary report given on racoon dog rabies, also occurring in Poland. A Concertation meeting on Control of Rabies in Europe, held on January 3-4, 1985 in Strasbourg (France) is commented on under 3.4.

The rabies case data are tabulated for the fourth quarter 1984 as well as for the whole year 1984 under 4.

The last part lists the official contributors to the BULLETIN.

The geographical distribution of cases in Europe of the fourth quarter 1984 is shown on the maps of Europe and Turkey in the Annex. One other map of Europe refers to the text under 3.1.

2. RABIES IN EUROPE, 4TH QUARTER 1984

During the fourth quarter 1984, 5566 cases of rabies were reported in Europe. These were 4275 cases in wild animals (76.8%) and 1290 cases in domestic animals (23.2%). Of the cases in wild animals 3817 (68.6% of total) were foxes, 69 badgers, 117 other mustelids, 225 deer and 47 other and unspecified species. Of the 1290 cases in domestic animals 254 were dogs (of which 160 (63%) were reported from Turkey), 296 cats, 542 cattle, 25 horses, 153 small ruminants and 20 other domestic animals. Table 4 of this BULLETIN lists 'other animal species', less frequently involved in rabies.

No new country, compared to the last quarter has been infected by rabies.

Rabies-free countries in Europe are: Bulgaria, Denmark, Finland, United Kingdom, Ireland, Iceland, Norway, the mainland of Spain and Sweden. There were no cases reported for this quarter from Greece, Portugal and the northern part of Africa belonging to Spain.

One human case was reported from Poland.

The number of rabies cases in 1984 totals 23618. This is the highest annual figure reported to the Centre since 1977.

The four quarters for 1984 compare as follows:

1st quarter	-	7511 cases
2nd quarter	-	5430 cases
3rd quarter	-	5092 cases
4th quarter	-	5566 cases.

Individual country reports follow:

2.1 Rabies in Austria (AUT)
by W. Krocza and E. Scharfen

During the fourth quarter 1984, rabies was registered in 277 animals, namely 223 foxes (80.5% of total), 26 (9.4%) other wild animals and 28 (10.1%) domestic animals (of these were 14 cases in cattle, 6 in cats and 4 in sheep). Compared to the previous quarter (303 cases) a decrease is noted in reported cases by 8.6% and compared to the fourth quarter 1983 (329 cases) a decrease by 15.8%.

The epizootic advances from the Bundesland (federal province) Kärnten (the districts of Völkermarkt, Klagenfurt/Stadt and Klagenfurt/Land, St. Veit an der Glan, Feldkirchen) via the Bundesland Styria (the districts of Judenburg and Murau) in westerly direction to the Bundesland Salzburg (districts of Tamsweg, St. Johann im Pongau, Zell am See). To the north of the river Danube in the Bundesland Upper Austria rabies occurs in all districts (Bezirke) of the Mühlviertel (Rohrbach, Urfahr/Umgebung, Freistadt, Perg), in Lower Austria in the Wald- and Weinviertel of the Bezirke Gmünd, Zwettl, Horn, Krems/Land, Melk and Mistelbach. In the Bundesland Tyrol there are cases only along the northern national border - isolated ones in the Bezirke Kitzbühel, Schwaz and Innsbruck/Land and more frequent ones in the Bezirk Reutte. In the Bundesland Vorarlberg (Bezirke Bregenz, Feldkirch and Bludenz) there are also most of the cases near the national border. Scattered cases of the disease were recorded in the Bezirke Voitsberg, Graz/Umgebung and Weiz of the Bundesland Styria.

Rabies-free were the Bundesländer (federal provinces) Upper Austria and Lower Austria to the south of the river Danube, as well as Vienna. Only one case each occurred in the Bezirke Oberpullendorf and Güssing of the Burgenland.

In 1984 1422 cases of rabies were recorded in animals in Austria, a 3.5% increase in comparison with 1983 (1374 cases). Of the wild animals involved were 1173 foxes (1983-1174), 75 badgers (60), 64 roe deer (60) and 29 other wild animals (27). With 81 cases recorded in domestic animals in 1984 (38 cattle, 26 cats, 9 sheep, 6 dogs, 1 horse, 1 calf), the figure increased by nearly 53% compared to 1983 with 53 cases (20 cattle, 17 cats, 7 sheep, 5 dogs, 4 other domestic animals).

2.2 Rabies in Belgium (BEL)
by R. Depierreux

During the fourth quarter 1984, 177 rabies cases were registered in 92 communities, in 77 foxes, 87 cattle, 4 sheep, 2 horses, 5 cats, 1 roe deer and 1 mouse weasel.

In comparison with the previous quarter it can be observed that in the provinces of Liège, Luxembourg and Namur throughout the infected area an increase can mainly be attributed to the cattle (87 cases this quarter compared to 43 during the third one).

When the evolution of the disease is compared to previous years, one notices that the number of diagnosed cases during this year does not

diminish, contrary to former epizootics. Rabies seems to expand in a way being more endemic than in previous epizootics. This particular development may well be linked to a state of neglect of the gassing of fox dens since 1982.

Furthermore, the front of the disease has advanced in the direction of the river Meuse, reaching the same at various places. A multiplication of foci along the river to such an extent has not been observed before.

2.3 Bulgaria (BUL)

The country remained rabies-free.

2.4 Rabies in Czechoslovakia (CZE) by M. Capka and J. Neumann

During the 4th quarter of 1984, rabies was diagnosed in 530 cases in the CSSR. Of these were 441 cases in the CSR and 89 in the SSR. Of the total number of cases, domestic animals accounted for 7.9% and wildlife species for 92.1%. The fox accounted for the majority of cases (87%). One case of rabies in a dingo in a zoological garden in the district of Olomouc and one in a bear in the district Ziar nad Hronom are to be considered exceptional.

In comparison with the previous year, rabies increased by 354 cases, i.e. by 16.9%. The proportion of rabies cases in domestic animals in relation to wildlife rabies did not change (5.7% and 5.8% respectively). In 1984, rabies was diagnosed in 39 dogs (1.6%), 1 dingo in a zoological garden (0.04%), 95 cats (3.9%), 1 head of cattle (0.04%), 3 sheep (0.12%), 3 pigs (0.12%), 2,215 foxes (90.6%), 11 badgers (0.45%), 25 martens (1.02%), 5 polecats (0.2%), 44 roe deer (1.8%), 1 stag (0.04%) and 1 bear (0.04%).

The most affected area is the North Bohemian Region with 628 cases of rabies (25.7% of total in 1984). The incidence of the disease increased considerably in the South Moravian Region where, some years ago, rabies occurred only sporadically.

2.5 Rabies in Germany, Democratic Republic (DDR)

During the fourth quarter 1984, there were 458 cases of rabies diagnosed in the Democratic Republic of Germany. Of these were 337 (73.6%) in wild animals - 296 foxes, 4 badgers, 13 stone martens, 20 roe deer, 1 fallow deer, 2 wild boars, 1 mouflon, and 121 (26.4%) in domestic animals - 13 dogs, 31 cats, 28 cattle, 48 sheep, 1 horse. The proportion in domestic animals is rather high during this quarter compared to the preceding ones - 1st quarter 20.7%, 2nd quarter 13%, 3rd quarter 16.6%. It can be explained by the indoor-keeping of a great deal of pasture animals during the winter (cattle, small ruminant), when fox rabies has its peak, and these animals are not exposed. An exceptional example is given in the department (Bezirk) Karl-Marx-Stadt where more domestic (22) than wild (14) animal cases are registered during this quarter.

The Bezirke Dresden (68) and Suhl (49) record the greatest number of cases. All other Bezirke of the German Democratic Republic also record rabies, but less than 36 cases.

The annual figure for 1984 amounts to 2015 cases. The Bezirke Karl-Marx-Stadt and Magdeburg with 274 and 245 cases respectively, were most affected. In comparison to 1983 (2227 cases) a reduction of 9.5% of registered cases can be noted.

2.6 Denmark (DEN)

The country remained rabies-free.

2.7 Rabies in Germany, Federal Republic (DEU)

A total of 1839 rabies cases were reported during the fourth quarter 1984. 81% (1490 cases) were in wild animals - 1269 foxes, 26 badgers, 66 stone martens, 3 polecats, 118 roe deer, 3 fallow deer, 2 racoons, 2 wild boars, 1 hedgehog. In domestic animals 15 dogs, 82 cats, 214 cattle, 29 sheep, 1 goat, 6 horses, 1 pig and 1 other domesticated herbivore were reported rabid.

With 2033 cases reported during the fourth quarter 1983, there was a substantial reduction in this quarter (9.5%). The total for 1984 though (7055 cases) is more than the total for the year 1983 (6935 cases). With the annual figures close, and a nearly always even distribution of animal species involved in the epizootic, and an always even seasonal repetition of case incidence (for 1984: 1st quarter 7511, 2nd quarter 5430, 3rd quarter 5092, 4th quarter 5566 cases), the difference is noticed mostly (except for very few advances at the front) in the case density.

During 1984 the case density increased in the federal province of Lower Saxony in the department (Regierungsbezirk) Hannover (from 180 to 328 cases). The Regierungsbezirk Düsseldorf in Nordrhein-Westfalen was newly infected in several areas (1 to 47 cases), while the Regierungsbezirk Arnsberg had a substantial increase from 92 to 357 cases, with only few more Kreise (districts) newly involved. In Rheinland-Pfalz, the Regierungsbezirk Rheinhessen had an increase from 180 to 335 cases. An increase in Bavaria is due to the Regierungsbezirk Niederbayern from 46 to 238 cases and the Regierungsbezirk Unterfranken from 123 to 289.

2.8 Finland (FIN)

The country remained rabies-free.

2.9 Rabies in France (FRA) by J. Blancou

627 rabies cases were reported during the fourth quarter 1984, 76 more than the previous quarter (an increase of 13.8%). 456 cases were registered in foxes (72.7% of total), 22 in other wild animals and 149 in domestic animals (14 dogs, 31 cats, 44 cattle, 49 small ruminants and 11 horses).

The highest figures during this quarter are noted in the départements (departments) de l'Ain (53 cases), des Voges (49 cases) and Seine et Marne and Seine Saint Denis, where the new rabies focus of 1984 persists (with 40 cases each for this quarter).

The general tendency remains one of a stabilisation of the front of the epizootic, though there is pressure into the region of Paris.

2.10 Rabies in Greece (GRE)

No case of rabies was reported during the 4th quarter 1984.

2.11 United Kingdom (GBR)

The country remained rabies-free.

2.12 Rabies in Hungary (HUN)

by L. Koltai

During the fourth quarter 1984, 371 rabies cases were registered in Hungary. The distribution of the animal species involved in the rabies epizootic is similar to the previous quarter: for the fox 89.2%, the dog and cat a little more than previously, with 2.7% and 5.4% respectively.

All four quarters of 1984 had an increase of cases compared to their corresponding quarters in 1983. The annual figure for 1984 (1175 cases) exceeds the one for 1983 (976 cases) by 20.4%.

The increased number of rabies cases in foxes this year show that the gassing of fox lairs during spring 1984, to reduce the fox population and thus control rabies, has not been successful. There is too little cooperation by farmers in the intensively cultivated areas of Hungary, as well as by the hunters.

2.13 Iceland (ISL)

The country remained rabies-free.

2.14 Ireland (IRE)

The country remained rabies-free.

2.15 Rabies in Italy (ITA)

by S. Prosperi

During the 4th quarter 1984, 31 cases of animal rabies were diagnosed in 25 communities, namely 29 foxes and 2 badgers. Fourteen communities, a total of 461 km², were infected for the first time: 1 in the province of Udine (40 km²), 8 in the province of Trento (277 km²), 5 in the province of Bergamo (144 km²).

During the year 1984, 354 cases of rabies were reported: 347 in wild and 7 in domestic animals (4 dogs, 2 cats and 1 bovine). Ten provinces of 4 regions (Valle d'Aosta, Lombardia, Trentino Alto Adige, Friuli Venezia Giulia) were infected and 72 communities were affected for the first time, involving an area of 2182 km².

The following are the samples examined and their results in the regions of the Alpine zone in 1984:

- a) in Piemonte, Liguria, Valle d'Aosta - 377 wild animals (12 foxes and 1 mustelid proved positive) and 86 domestic animals (all negative) were examined;
- b) in Lombardia-2667 wild animals (234 foxes, 22 mustelides, 1 deer proved positive) and 452 domestic animals (3 dogs and 1 cat proved positive) were examined;
- c) in Veneto, Trentino Alto Adige, Friuli V.G.-4129 wild animals (70 foxes, 6 mustelides, 1 deer proved positive) and 465 domestic animals (1 dog, 1 cat, 1 bovine proved positive) were examined.

In Valle d'Aosta the disease seems to have disappeared, although data from the above surveillance do make it difficult to draw firm conclusions.

It is interesting to note that the eastern area of the province of Bolzano, which was infected from 1977 until 1979, has been free during the last 5 years.

Under an Ordinance of 7 April 1984 by the Ministry of Health, all domestic animals in the Alpine zone, and at risk of rabies infection, have to be vaccinated. Only ERA vaccine has been used. The vaccination is free of charge.

A field trial of oral vaccination of foxes started in November 1984 in Val Camonica (province of Brescia) using SAD-B19 vaccine. During one week 7500 chicken-head baits with the vaccine and tetracycline as marker were distributed. Bait and marker had proved efficient in previous field trials. The area of the field trial comprises of 45 communities of the local sanitary unit No. 37 in the Brescia province (Val Camonica).

From January to March 1985 it is intended to shoot or capture 70 foxes, 70 stone or pine martens, 35 badgers and 175 rodents in the trial area and examine them for sero-conversion, marker (tetracycline) and absence of vaccine virus. 50 foxes from a rabies-free area, where vaccine has not been distributed will also be examined as controls.

2.16 Rabies in Luxembourg (LUX) by R. Frisch

During the fourth quarter 1984, only 10 rabies cases were registered. Of these 6 were in foxes and 4 in cattle.

In 1984 the rabies epidemic affected mainly the south and south-east of the country. The total number of rabies cases in 1984 amounts to 64, exceeding the previous year (106 cases) by ca. 40%. The 64 cases are made up of the following animal species:

1. Rabies in domestic animals:

- 13 cattle
- 12 sheep
- 2 cats
- 1 horse and 1 donkey

2. Wildlife rabies:

- 33 foxes
- 1 roe deer and 1 marten

The fox thus is the reservoir of rabies in the country and it passes the disease on to other wildlife or domestic animals.

The main control measures of rabies at this time are the reduction of the fox population by methods relevant to conservation and ecology of wildlife and the obligatory vaccination of dogs older than 3 months.

The oral immunisation of foxes though, with a suitable vaccine and a suitable bait, as it is tried in several European countries at the moment, has to be considered the best way of a control measure.

2.17 Rabies in the Netherlands (NET)

by C.J. Vermeulen

During the fourth quarter of 1984, 5 animals (4 foxes and 1 head of cattle) were diagnosed rabies positive in the Netherlands.

All cases were located in the south-east part of the province of Limburg, very close to the Belgian and German border.

2.18 Norway (NOR)

The country remained rabies-free.

2.19 Rabies in Poland (POL)

455 rabies cases were registered in Poland during the fourth quarter 1984, 60 cases more than the previous quarter and 112 cases more than during the same period last year.

There were 355 cases of rabies in wild animals (279 foxes, 6 badgers, 13 pine martens, 3 polecats, 32 roe deer, 1 red deer, 16 racoon dogs, 4 wild boars, 1 hedgehog), 99 cases in domestic animals (22 dogs, 34 cats, 42 cattle, 1 horse) and one case in a man (see 3.2 in this BULLETIN).

The district (Wojewodztwo) of Poznan has a very high incidence of the disease with 100 cases, followed by Gorzow with 35 and Wroclaw with 31 cases. Generally, the western and northern parts of the country have a much higher density of cases than the other parts of Poland, where some centre parts are rabies-free and the eastern and southern parts record scattered cases.

The annual figure for 1984 amounts to 1516 cases. From 1981, when 449 cases were registered, there has been a gradual increase until last

year (1982-627 cases, 1983-835 cases). From 1983 to 1984 cases nearly doubled.

2.20 Rabies in Portugal (POR)

No case of rabies was reported during the 4th quarter 1984.

2.21 Rabies in Romania (ROM)

3rd Quarter 1984

During the third quarter 1984, 17 rabies cases were reported from Romania: 6 in foxes, 5 in cattle, 3 in cats, 2 in dogs and 1 in a sheep.

The 17 cases originated from 10 provinces affected with 1 to 4 cases each. 13 cases occurred in the western half of Romania, 4 cases in the eastern half.

4th Quarter 1984

There were again 17 cases reported during the 4th quarter 1984: 5 in foxes, 2 in other mustelids, 5 in cats, 3 in cattle and 2 in sheep.

Five of the provinces of the 10 affected by rabies during the last quarter, reported more cases, the remaining five did not report any. This time four other provinces had 1-4 cases to report.

The total figure of rabies cases for 1984 amounts to 140. Compared to the previous year (59 cases), the reported rabies cases have more than doubled. They are usually scattered and the affected provinces change. The western part of Romania has the highest incidence of the disease, followed by the eastern part. The central and southern parts of the country are almost free of rabies.

It is interesting to note that Romania does not follow the rabies pattern of most of the other European countries with wildlife rabies in regard to the animals involved in the epizootic, though it is to be expected that the country too has a fox mediated rabies. Nevertheless, the cases in domestic animals (73,6%-1984) exceed the ones in wild animals. If one considers for 1984 the wild animals reported rabid and the domestic animals having a connection to the fox's habitat - the pasture animals sheep (50.7%) and cattle (6.4%) or the (probably) stray cats (11.4%) - the picture in regard to the present European fox rabies epizootic might be largely corrected.

2.22 Rabies in Spain (SPA)

There was no case reported from the African part of Spain.

The mainland of Spain remained rabies-free.

2.23 Sweden (SWE)

The country remained rabies-free.

2.24 Rabies in Switzerland and Liechtenstein (SWI and LIE) by A.I. Wandeler

During the last quarter of 1984, the Swiss rabies diagnostic center received 1221 animals for examination. 93 (7.6%) of these were positive for rabies, compared to 160 (18% of 856) in the previous quarter and 296 (25% of 1190) in the 4th quarter of 1983. This is the first time since 1971, that the total number of positive cases diagnosed at the center in a quarter is below 100. Twenty-one of the 93 cases were in domestic animals, 58 in foxes. An additional 13 foxes, 3 martens and 1 roe deer were diagnosed histologically in canton Vaud. They bring the total of proven rabies cases to 110 (179 in the previous quarter).

There is still quite a high case density in westernmost Switzerland (cantons Vaud and Genève) and in the western Jura mountains. The number of diagnosed rabies cases in the north-eastern part of the country is decreasing. The whole Alpine area and large parts of the Swiss midlands are free from rabies.

During the 4th quarter of 1984 five persons were bitten by proven rabid cats. The number of people treated for non-bite exposures is not recorded.

2.25 Rabies in Turkey (TUR)

During the fourth quarter 1984, a total of 316 cases of rabies were reported in Turkey. There were 311 cases in domestic animals: 160 dogs, 40 cats, 87 cattle, 3 horses, 10 donkeys, 5 sheep, 3 goats and 3 other domestic animals; and only 5 non-domesticated animals: 1 wolf, 1 fox and 3 house mice. There has been a reduction of 65 cases compared to the previous quarter.

Concentrations of rabies cases were registered in the north from Samsun province (23) at the Black Sea, and from the coastal provinces of Izmir (33) in the west and Adana (22) in the south at the Mediterranean Sea. All other provinces reported less than 16 cases. The overall geographical distribution of cases has not changed in comparison with the previous quarter.

The annual figure for 1984 amounts to 1460 cases. This is the lowest figure during 7 years of reporting to the Centre, with 2260 cases being the peak in 1981.

Turkey stands for a country with typical urban rabies: 99% of all affected animals in 1984 were domestic animals; of these 61% dogs, 22.9% cattle, 8.2% cats, 3.4% small ruminants, 0.7% horses and 2.7% other domesticated herbivores.

Rabies has been present in the whole country in 1984, except for very few provinces (ca. 4 in the east) not reporting cases. In the west and in the north of the country as well as in the coastal areas of the

south cases are more concentrated, they diminish in the centre parts and become scattered in the eastern parts.

Unfortunately, there are no regular reports on human rabies cases to the Centre.

2.26 Rabies in Yugoslavia (YUG) by M. Petrović

4th Quarter 1984

During the fourth quarter 1984, a total of 343 cases of rabies were registered in Yugoslavia. Of these were 322 in wild animals (309 foxes, 5 badgers, 8 roe deer) and 21 in domestic animals (8 dogs, 6 cats, 3 cattle, 2 sheep, 2 other domesticated animals). During the last quarter, 193 cases were registered, during the fourth quarter 1983 414 cases.

Croatia reported most of the cases (191) followed by Slovenia (66) and Vojvodina (66) and Bosnia and Hercegovina (18). Only 2 cases were reported from Serbia, both close to the infected northern part of the country. In general, the geographical distribution of cases resembles the one of the previous quarter.

Evolution of rabies in 1984

The general conditions of the disease in Yugoslavia are very similar to the ones in 1983 (RABIES BULLETIN EUROPE 4/83), with only a slight increase of cases and territorial involvement (number of affected communities).

Urban rabies is still present, but only a few animal cases were registered. There were 2 cases in Serbia in two communities (Svrljig and Aleksinac). From all other parts of Yugoslavia where urban rabies previously occurred (Kosovo, Macedonia, Montenegro), there were no reports.

The hypothesis, that two forms of rabies - sylvatic and urban - exist simultaneously in Bosnia and Hercegovina, was neither confirmed nor invalidated. It is intended to investigate several virus isolates of dogs and a wolf against specific monoclonal antibodies at the WHO Collaborating Centre for Rabies Surveillance and Research, Tübingen.

Looking at the total rabies cases, the overall infected and newly infected communities in Bosnia and Hercegovina in comparison with 1983, one notices a decrease. This makes it difficult to interpret the epizootiological situation as in 1983 rabies had spread here intensively.

Sylvatic rabies has continued to disseminate in Yugoslavia in 1984.

The number of animal cases in Vojvodina increased by more than 35% compared to 1983. Territorial involvement reached its peak with rabies registered in 93% of all communities in comparison with 55-86% in previous years.

Sylvatic rabies in Croatia too has reached its peak since 1977 by both, number of cases and territorial involvement. The disease was present

in earlier affected communities and it has spread considerably into new regions, especially those between Bosnia and Hercegovina and the Adriatic coast. Out of 105 communities 81 are presently infected.

In Slovenia the rabies situation is similar to that of 1983 regarding infected areas, but the number of animal cases increased by more than 30%.

Sylvatic rabies was present in Serbia in the communities of Belgrade and Sabac, both of them bordering on the heavily infected northern region of the country.

With 182 communities rabies infected in 1984, 21 more than 1983, the highest figure for one year is recorded and thus the country experiences her worst epizootiological situation.

During 1984, there were 1603 animal cases registered, 454 (39.5%) more than in 1983. Rabies was confirmed in 93 (5.8%) domestic animals and 1510 (94.2%) wild animals. Foxes were the most affected animal species with 1456 cases (90.8% of total). The relatively high number of dogs (23) is a matter of concern, because the vaccination of all dogs is compulsory. It is interesting that there were only 25 cats found rabid, although the vaccination of cats is not compulsory. There were 23 cases in cattle, the highest figure ever recorded. According to these data the fox was the main vector and the animal most frequently affected among all other animal species.

Pre- and postexposure vaccination was performed with the imported HDC antirabies vaccine (Behringwerke, Marburg, Federal Republic of Germany and Institute Merieux, Lyon, France). The production of the Yugoslav Hempt's vaccine has been stopped. Seroprophylaxis is performed mainly with antirabies gamma globulin produced in horses, and to a lesser extent with human antirabies gamma globulin, which has to be registered. The latter preparations are both of Yugoslav production.

After 10 consecutive years (1971-80) with human rabies cases, 1984 represents the fourth year without human victims of the disease, in spite of a very poor epizootiological rabies situation in Yugoslavia.

2.27 Rabies in the Union of the Soviet Socialist Republics (USSR)

Data not received before going to press.

3. MISCELLANEOUS

3.1 Review of to the WHO Reference Centre, Tübingen, reported rabies case data in Europe from 1977 to 1984

In RABIES BULLETIN EUROPE 4/82 the last summary of rabies data was published. In this issue we present:

- A - Quarterly figures of all rabies cases reported till now (page 13).
- B - A table of human rabies cases (see below).
- C - A graph summarizing the development of individual countries with annual figures (in the Annex).
- D - Two tables on the distribution of animal species in fox- and dog mediated rabies (Table 6 and 7 of this BULLETIN).

A. Table of quarterly figures 1977-1984

In comparing these figures with former summary reports, it should be pointed out that they may differ slightly, as gaps have been filled with data coming in late.

B. Human rabies cases in Europe 1977-1984

Country	Number of cases	Imported cases	Year
Poland	2		1977, 1984
Romania	3		1977
Switzerland	3		1977
Yugoslavia	8		1977-80 each year 2
United Kingdom	3	3*	1977, 1978, 1981
Turkey	5****		1978, 1979
Austria	1		1979
France	2	2**	1979, 1980
German Dem. Rep.	1		1981
Belgium	1	1***	1981
Total	29	6	

* from India (2) and Pakistan (1)

** from Tunisia and Egypt

*** from Ruanda

**** According to a personal communication with the Ministry of Health in Turkey, there are 30-60 cases every year. Unfortunately, there are no regular reports to the Centre.

LOCATION CODE	NAME	QUARTER				YEARI 1977I
		1	2	3	4	
AUT AUSTRIA		852	683	508	10151	30581
BEL BELGIUM		36	13	6	131	681
BUL BULGARIA		-	-	-	-1	01
CZE CZECHOSLOVAKIA		168	134	156	1371	5951
DDR GERMAN DEMOCRATIC REPUBLIC		573	360	378	4431	17541
DEN DENMARK		-	-	3	31	61
DEU FEDERAL REPUBLIC OF GERMANY		1815	1047	1072	10501	49841
FRA FRANCE		572	356	354	3861	16681
GBR UNITED KINGDOM		1	-	-	-1	11
GRE GREECE		5	2	-	21	91
HUN HUNGARY		221	166	99	2501	7361
ITA ITALY		3	24	39	291	971
LUX LUXEMBOURG		10	6	9	91	341
NET NETHERLANDS		1	-	1	-1	21
NOR NORWAY		-	-	-	-1	01
POL POLAND		297	252	395	3431	12871
POR PORTUGAL		-	-	-	-1	01
ROM ROMANIA		33	20	11	491	1131
SFA SPAIN		-	1	4	11	61
SWI SWITZERLAND AND LIECHTENST.		330	207	211	2931	10411
TUR TURKEY		8	8	8	3101	3101
USR UNION OF SOVIET SOCIAL.REP.		8	8	8	81	81
YUG YUGOSLAVIA		17	14	->	1211	1541
TOTAL 1977		4934	3289	3246	44541	159231

LOCATION CODE	NAME	QUARTER				YEARI 1981I
		1	2	3	4	
AUT AUSTRIA		197	209	188	1851	7791
BEL BELGIUM		24	23	36	911	1741
BUL BULGARIA		-	-	-	-1	01
CZE CZECHOSLOVAKIA		272	254	225	3491	11001
DDR GERMAN DEMOCRATIC REPUBLIC		474	405	470	5571	19061
DEN DENMARK		2	1	-	-1	31
DEU FEDERAL REPUBLIC OF GERMANY		1623	1102	1320	13761	54211
FRA FRANCE		552	412	550	8271	23411
GBR UNITED KINGDOM		-	-	-	-1	11
GRE GREECE		-	-	3	-1	31
HUN HUNGARY		314	122	194	3721	10021
ITA ITALY		55	120	113	791	3671
LUX LUXEMBOURG		16	18	25	271	861
NET NETHERLANDS		-	-	-	-1	01
NOR NORWAY		1	-	-	-1	11
POL POLAND		198	67	81	1031	4491
POR PORTUGAL		-	-	-	-1	01
ROM ROMANIA		26	20	50	321	1281
SFA SPAIN		1	-	-	-1	11
SWI SWITZERLAND AND LIECHTENST.		383	353	349	3281	14131
TUR TURKEY		497	638	587	5381	22601
USR UNION OF SOVIET SOCIAL.REP.		142	98	81	1601	4811
YUG YUGOSLAVIA		686	858	250	3221	21161
TOTAL 1981		5463	4700	4523	53461	200321

LOCATION CODE	NAME	QUARTER				YEARI 1978I
		1	2	3	4	
AUT AUSTRIA		1136	1139	868	9011	40441
BEL BELGIUM		25	15	13	81	611
BUL BULGARIA		1	-	-	-1	11
CZE CZECHOSLOVAKIA		222	162	172	1911	7471
DDR GERMAN DEMOCRATIC REPUBLIC		329	225	361	3431	12581
DEN DENMARK		14	24	69	561	1631
DEU FEDERAL REPUBLIC OF GERMANY		1094	741	916	10121	37631
FRA FRANCE		384	289	212	3171	12021
GBR UNITED KINGDOM		-	-	-	-1	11
GRE GREECE		1	-	1	-1	21
HUN HUNGARY		429	169	192	3101	13001
ITA ITALY		83	82	39	461	2501
LUX LUXEMBOURG		22	16	16	81	621
NET NETHERLANDS		-	-	-	-1	01
NOR NORWAY		-	-	-	-1	01
POL POLAND		335	197	251	3561	11391
POR PORTUGAL		-	-	-	-1	01
ROM ROMANIA		8	8	8	81	81
SFA SPAIN		1	-	-	21	31
SWI SWITZERLAND AND LIECHTENST.		265	204	232	3511	10521
TUR TURKEY		313	410	387	3721	14821
USR UNION OF SOVIET SOCIAL.REP.		309	187	237	3401	10731
YUG YUGOSLAVIA		->	->	->	3131	3131
TOTAL 1978		5163	3860	3966	49271	179161

LOCATION CODE	NAME	QUARTER				YEARI 1982I
		1	2	3	4	
AUT AUSTRIA		259	290	154	2591	9621
BEL BELGIUM		135	139	128	2731	6751
BUL BULGARIA		-	-	-	-1	01
CZE CZECHOSLOVAKIA		550	460	370	5091	18891
DDR GERMAN DEMOCRATIC REPUBLIC		504	399	417	6351	19551
DEN DENMARK		1	-	-	-1	11
DEU FEDERAL REPUBLIC OF GERMANY		1738	1247	1557	20101	65521
FRA FRANCE		1023	874	770	7381	34051
GBR UNITED KINGDOM		-	-	-	-1	01
GRE GREECE		1	-	-	-1	11
HUN HUNGARY		601	246	187	3391	13731
ITA ITALY		112	82	88	631	3451
LUX LUXEMBOURG		33	24	41	1071	2051
NET NETHERLANDS		-	-	-	-1	01
NOR NORWAY		-	-	-	-1	01
POL POLAND		143	99	195	1901	6271
POR PORTUGAL		-	-	-	-1	01
ROM ROMANIA		32	20	20	191	911
SFA SPAIN		1	-	-	-1	11
SWI SWITZERLAND AND LIECHTENST.		381	305	258	2851	12291
TUR TURKEY		503	645	529	4951	21221
USR UNION OF SOVIET SOCIAL.REP.		216	138	148	2201	7421
YUG YUGOSLAVIA		674	266	126	2101	12761
TOTAL 1982		6907	5234	5008	63521	235011

LOCATION CODE	NAME	QUARTER				YEARI 1979I
		1	2	3	4	
AUT AUSTRIA		789	529	404	2961	20181
BEL BELGIUM		8	5	4	81	251
BUL BULGARIA		-	-	-	-1	01
CZE CZECHOSLOVAKIA		143	201	193	2501	7871
DDR GERMAN DEMOCRATIC REPUBLIC		396	279	267	5411	14831
DEN DENMARK		37	41	46	411	1651
DEU FEDERAL REPUBLIC OF GERMANY		1244	1035	1210	16001	50891
FRA FRANCE		533	394	344	4351	17041
GBR UNITED KINGDOM		-	-	-	-1	01
GRE GREECE		-	-	-	21	21
HUN HUNGARY		546	159	222	3551	12821
ITA ITALY		30	28	17	41	791
LUX LUXEMBOURG		3	3	4	131	231
NET NETHERLANDS		-	1	-	-1	11
NOR NORWAY		-	-	-	-1	01
POL POLAND		215	189	287	3481	10391
POR PORTUGAL		-	-	-	-1	01
ROM ROMANIA		8	8	8	81	81
SFA SPAIN		-	-	1	-1	11
SWI SWITZERLAND AND LIECHTENST.		365	312	318	3751	13701
TUR TURKEY		517	454	314	3081	15951
USR UNION OF SOVIET SOCIAL.REP.		342	264	208	2431	10571
YUG YUGOSLAVIA		126	120	72	1001	4181
TOTAL 1979		5294	4014	3913	49191	181401

LOCATION CODE	NAME	QUARTER				YEARI 1983I
		1	2	3	4	
AUT AUSTRIA		406	375	264	3291	13741
BEL BELGIUM		208	119	80	1091	5161
BUL BULGARIA		-	-	-	-1	01
CZE CZECHOSLOVAKIA		659	466	428	5371	20901
DDR GERMAN DEMOCRATIC REPUBLIC		680	533	518	4941	22271
DEN DENMARK		-	-	-	-1	01
DEU FEDERAL REPUBLIC OF GERMANY		2074	1333	1495	20331	69351
FRA FRANCE		802	464	637	7601	26631
GBR UNITED KINGDOM		-	-	-	-1	01
GRE GREECE		1	-	-	-1	11
HUN HUNGARY		413	129	174	2601	9761
ITA ITALY		93	115	127	1131	4481
LUX LUXEMBOURG		35	15	20	361	1061
NET NETHERLANDS		1	-	1	131	151
NOR NORWAY		-	-	-	-1	01
POL POLAND		138	96	258	3431	8351
POR PORTUGAL		-	-	-	-1	01
ROM ROMANIA		21	14	9	151	591
SFA SPAIN		-	-	2	-1	11
SWI SWITZERLAND AND LIECHTENST.		213	204	269	3781	10641
TUR TURKEY		483	511	549	3891	19321
USR UNION OF SOVIET SOCIAL.REP.		153	117	100	2281	5981
YUG YUGOSLAVIA		381	251	103	4141	11491
TOTAL 1983		6761	4742	5034	64531	229901

LOCATION CODE	NAME	QUARTER				YEARI 1980I
		1	2	3	4	
AUT AUSTRIA		250	288	167	1111	8161
BEL BELGIUM		11	23	2	111	471
BUL BULGARIA		-	-	-	-1	01
CZE CZECHOSLOVAKIA		435	301	233	2431	12121
DDR GERMAN DEMOCRATIC REPUBLIC		535	461	527	5331	20561
DEN DENMARK		22	11	2	21	371
DEU FEDERAL REPUBLIC OF GERMANY		2014	1329	1582	16801	66051
FRA FRANCE		589	381	275	3751	16201
GBR UNITED KINGDOM		-	-	-	-1	01
GRE GREECE		-	-	-	-1	01
HUN HUNGARY		381	142	191	2041	9181
ITA ITALY		3	2	2	51	121
LUX LUXEMBOURG		8	1	1	131	231
NET NETHERLANDS		-	-	-	-1	01
NOR NORWAY		1	15	-	11	171
POL POLAND		274	183	224	2631	9441
POR PORTUGAL		-	-	-	-1	01
ROM ROMANIA		35	23	15	141	871
SFA SPAIN		1	-	-	-1	11
SWI SWITZERLAND AND LIECHTENST.		376	250	277	2871	11901
TUR TURKEY		507	484	483	6121	20881
USR UNION OF SOVIET SOCIAL.REP.		284	178	167	1851	8161
YUG YUGOSLAVIA		224	202	173	3361	9351
TOTAL 1980		5952	4276	4321	48751	194241

LOCATION CODE	NAME	QUARTER				YEARI 1984I
		1	2	3	4	
AUT AUSTRIA		401	441	303	2771	14221
BEL BELGIUM		129	87	112	1771	5051
BUL BULGARIA		-	-	-	-1	01
CZE CZECHOSLOVAKIA		802	563	549	5301	24441
DDR GERMAN DEMOCRATIC REPUBLIC		570	415	572	4581	20151
DEN DENMARK		-	-	-	-1	01
DEU FEDERAL REPUBLIC OF GERMANY		2092	1516	1608	18391	70551
FRA FRANCE		1006	687	551	6271	28711
GBR UNITED KINGDOM		-	-	-	-1	01
GRE GREECE		-	-	-	-1	01
HUN HUNGARY		465	156	183	3711	11751
ITA ITALY		128	141	54	311	3541
LUX LUXEMBOURG		36	9	9	101	641
NET NETHERLANDS		42	16	2	51	651
NOR NORWAY		-	-	-	-1	01
POL POLAND		382	284	395	4551	15161
POR PORTUGAL		-	-	1	-1	11
ROM ROMANIA		90	16	17	171	141
SFA SPAIN		-	-	-	-1	11
SWI SWITZERLAND AND LIECHTENST.		370	269	179	1101	9281
TUR TURKEY		337	426	381	3161	14601
USR UNION OF SOVIET SOCIAL.REP.		8	8	8	81	81
YUG YUGOSLAVIA		661	406	193	3431	16031
TOTAL 1984		7511	5432	5109	55661	236181

* NO DATA, -> DATA INCLUDED IN NEXT FIGURE.

C. Development of rabies in individual countries (see map in the Annex)

In continuous columns annual figures show the development of rabies over the last 8 years. The columns are drawn in the same scale, figures below 100 are given in digits.

The status 'rabies-free country' may in some cases refer to a period of no indigenously acquired case for two years, in others for longer (see as well under A.).

To judge the true rabies development of a country, other additional parameters than annual figures have to be considered, such as: population density of the main reservoir species (foxes or dogs), the interactions of the reservoir species and other susceptible animals, immune level of a population, topographic barriers, disease induced aberrant behaviour in individual animals, and, for the surveillance various reporting systems for data collection, attitude and awareness of people towards the disease and collection and shipment of rabies suspected samples, diagnostic laboratory facilities, and above all, the more or less successful control efforts.

D. Distribution of animal species in fox- and dog-mediated rabies

Eight years of case data have been averaged for the countries with fox- or dog-mediated rabies (Tables 6 and 7, page 23).

The red fox (Vulpes vulpes) participates with 76.6% of the total cases summarizing 15 European countries. A certainly rather high dark figure of undiagnosed fox rabies cases has additionally to be considered. The fox is the species mostly affected and serving as reservoir as well as spill-over to other species.

The animals in the table following in their frequency of cases are in their way of living all closely connected to the fox. The cattle (5.1% of total) are grazing near the fox's habitat; the cats (4.1%), certainly to a great deal stray cats, and in general not that well protected by regular vaccination, as the dog for example, are being easy victims in the forest or cultivated areas; and the deer with 3.9% (mostly roe deer) share the same habitat with the fox (here too an under-reporting similar to the fox has to be considered).

Not included in the table of fox-mediated rabies countries is Norway (NOR). Here, the arctic fox (Alopex lagopus) of the Island of Svalbard was the main carrier and probably reservoir of the disease, and rabies presented itself in a form which can be clearly distinguished from red fox and dog type rabies by using monoclonal antibodies.

During 8 years Bulgaria (BUL) has only reported one case in a pig. The country is not included in any of the tables.

For the sake of completeness, Yugoslavia (YUG) has to be mentioned as a country with fox- and dog-mediated rabies. But the dog-rabies cases from the south and the east of the country are few and they have not been singled out of the total figure.

The Table 7 summarizing the countries with dog rabies add up the domestic animals to 98.6%. It is in these countries where man is most endangered to the disease.

3.2 A Case of Human Rabies in Poland by A. Badyoczek

One case of human rabies occurred in Poland in 1984*. The deceased person was a veterinary technician who worked for the veterinary department in Kwidzyn in the district (Wojewodztwo) of Elblag. He died on 9 October 1984.

Rabies was diagnosed post mortem by the laboratory Gdansk and later confirmed by the National Institute of Hygiene in Warszawa.

Neither during the persons professional work nor otherwise was contact with a rabid animal observed.

* Editors note: The last case of human rabies was reported from Poland in 1977.

3.3 Racoon Dog Rabies in Poland

The racoon dog, Nyctereutes procyonoides, was originally indigenous to the Far East. In the 1930's and 1940's several thousand specimen were released in the European part of the USSR to enrich the fur-bearing fauna. From there the animal moved by natural migration into Poland, Czechoslovakia, the German Democratic Republic, the eastern parts of the Federal Republic of Germany, Romania, Finland and Sweden.

In RABIES BULLETIN EUROPE 3/80 V.L. Cerkasskij describes the distribution and the biology of the racoon dog, and as well its role in the epizootiology of rabies in the USSR.

The recent development of rabies in the racoon dog in Poland shows an increasing tendency:

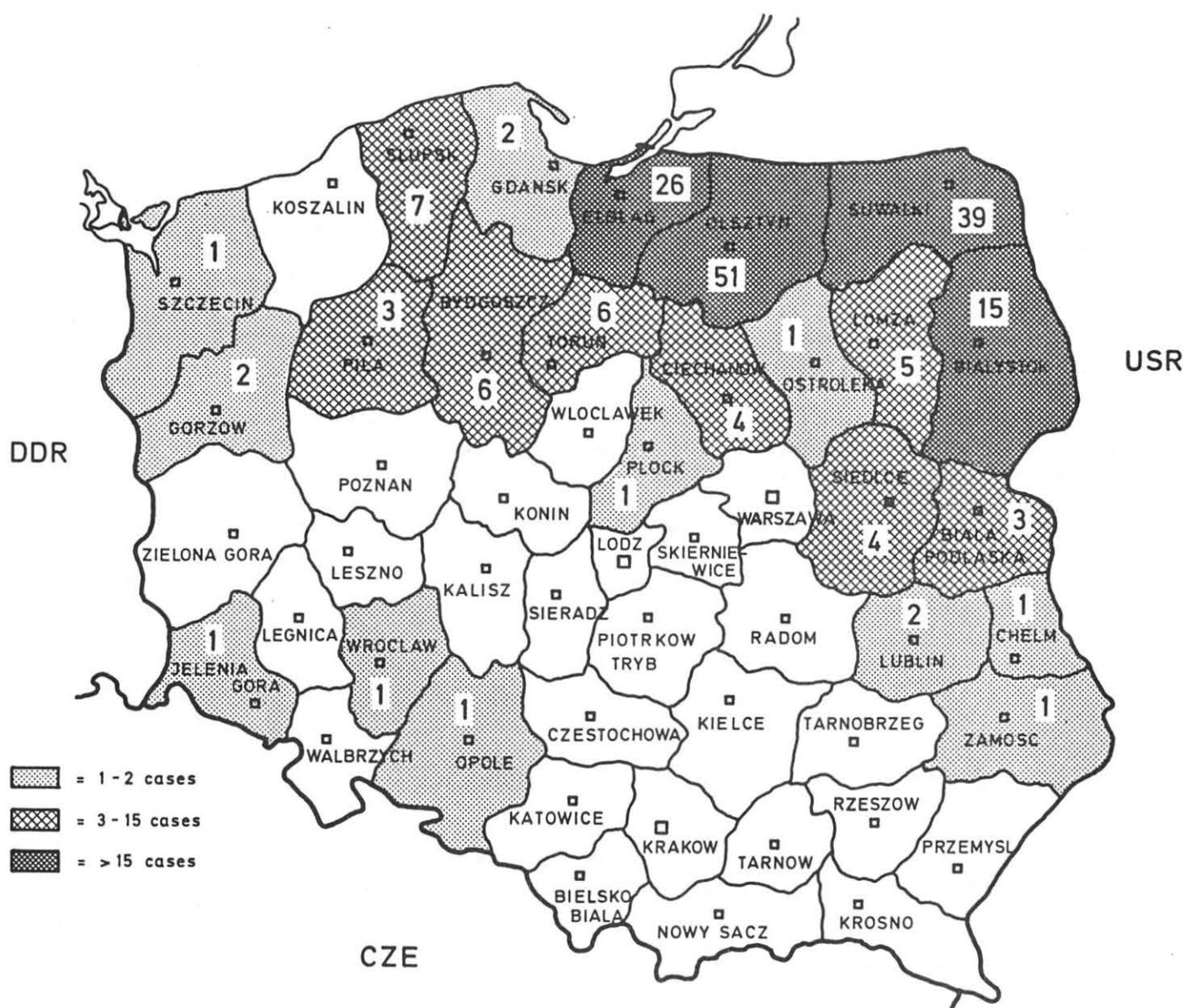
1978	-	36	1982	-	11
1979	-	14	1983	-	28
1980	-	17	1984	-	61
1981	-	16	Total	-	183

In plotting the cases onto the map, the following can be noticed:

- in seven years, racoon dog rabies remains fairly much in the same area (not to be seen from the map as only cumulated data are mentioned), except for few isolated cases in the west.
- rabies cases have the highest density in only very few districts of the north-east of the country (see map).

V.L. Cerkasskij reports in his article that in the Baltic Republics of the USSR the racoon dog is the species most frequently infected with rabies, after the fox (the racoon dog accounts for 37.1% of all rabies cases in the Estonian SSR (1969-76), for 28.7% in the Latvian SSR (1969-76) and for 36.5% in the Lithuanian SSR (1966-73)). It is along the border of Poland with the Lithuanian SSR where three districts - Suwalki, Olsztyn

and Elblag - share 116 (63.4%) of 183 cases of racoon dog rabies in a time span of 7 years (1978-1984), and 20 other districts share 67 cases (36.6%).



To 3.3: Racoon dog rabies in Poland - Cumulated data 1978-1984

As rabies in Poland is determined by the fox, it is of interest to see how fox and racoon dog rabies compare. The following are figures of the three by racoon dog rabies most affected districts:

	<u>Racoon Dog (Fox) Cases</u>						
	1978	1979	1980	1981	1982	1983	1984
Elblag	4 (14)	0 (14)	1 (8)	3 (11)	5 (18)	3 (15)	10 (22)
Olsztyn	12 (30)	5 (9)	3 (18)	4 (11)	1 (13)	11 (14)	15 (21)
Suwalki	4 (9)	4 (9)	7 (11)	2 (3)	2 (3)	3 (2)	17 (7)

Poland - total of animal cases in comparison:

1139	1039	944	449	627	835	1516
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During the last years, there is a tendency that racoon dog rabies increases faster than fox rabies. In Suwalki district, racoon dog cases even exceed fox cases during the last two years. With only few figures at hand, and no population figures of the two animal species, an interpretation needs caution. Especially, as at this point no data are available to the Centre to see if there was a reduction of racoon dog cases from previous years to 1978 (Poland had a peak in 1975). We shall have to learn if the racoon dog depends like all other species at the moment, wild or domestic, on the fox as reservoir, or if it can develop its own cycle.

TABLE 1

EUR		EUROPE		4/84		RABIES CASES							1.10.84 - 31.12.84			
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
AUT	AUSTRIA	2	6	15	1	4	-	28	223	13	3	10	-	249		277
BEL	BELGIUM	-	5	87	2	4	-	98	77	-	1	1	-	79		177
BUL	BULGARIA	*						0						0		0
CZE	CZECHOSLOVAKIA	9	28	1	-	1	3	42	461	2	7	16	2	488		530
DDR	GERMAN DEM. REPUBLIC	13	31	28	1	48	-	121	296	4	13	21	3	337		458
DEN	DENMARK	*						0						0		0
DEU	FED.REP. OF GERMANY	15	82	214	6	30	2	349	1269	26	69	121	5	1490		1839
FIN	FINLAND	*						0						0		0
FRA	FRANCE	14	31	44	11	49	-	149	456	4	-	7	11	478		627
GBR	UNITED KINGDOM	*						0						0		0
GRE	GREECE	*						0						0		0
HUN	HUNGARY	10	20	5	-	1	-	36	331	-	1	2	1	335		371
IRE	IRELAND	*						0						0		0
ISL	ICELAND	*						0						0		0
ITA	ITALY							0	29	2	-	-	-	31		31
LUX	LUXEMBOURG	-	-	4	-	-	-	4	6	-	-	-	-	6		10
NET	NETHERLANDS	-	-	1	-	-	-	1	4	-	-	-	-	4		5
NOR	NORWAY	*						0						0		0
POL	POLAND	22	34	42	1	-	-	99	279	6	16	33	21	355	1	455
POR	PORTUGAL	*						0						0		0
ROM	ROMANIA	-	5	3	-	2	-	10	5	-	2	-	-	7		17
SPA	SPAIN	*						0						0		0
SWE	SWEDEN	*						0						0		0
SWI	SWITZERLAND + LIECHT	1	8	8	-	4	-	21	71	7	5	6	-	89		110
TUR	TURKEY	160	40	87	3	8	13	311	1	-	-	-	4	5		316
YUG	YUGOSLAVIA	8	6	3	-	2	2	21	309	5	-	8	-	322		343
TOTAL		254	296	542	25	153	20	1290	3817	69	117	225	47	4275	1	5566
PER CENT		4.6	5.3	9.7	0.4	2.7	0.4	23.2	68.6	1.2	2.1	4.0	0.8	76.8	0.0	100.0

* NO CASES.

TABLE 2

EUR		EUROPE		1984		RABIES CASES							1. 1.84 - 31.12.84			
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
AUT	AUSTRIA	6	26	39	1	9	-	81	1173	75	25	65	3	1341		1422
BEL	BELGIUM	2	15	172	3	25	-	217	281	1	4	2	-	288		505
BUL	BULGARIA	*						0						0		0
CZE	CZECHOSLOVAKIA	39	95	1	-	3	3	141	2215	11	30	45	2	2303		2444
DDR	GERMAN DEM. REPUBLIC	60	119	63	8	136	2	388	1474	9	53	85	6	1627		2015
DEN	DENMARK	*						0						0		0
DEU	FED. REP. OF GERMANY	67	233	444	37	176	7	964	5263	137	273	398	20	6091		7055
FIN	FINLAND	*						0						0		0
FRA	FRANCE	99	118	143	42	195	2	599	2172	30	-	19	51	2272		2871
GBR	UNITED KINGDOM	*						0						0		0
GRE	GREECE	*						0						0		0
HUN	HUNGARY	29	52	17	1	4	-	103	1058	1	2	7	4	1072		1175
IRE	IRELAND	*						0						0		0
ISL	ICELAND	*						0						0		0
ITA	ITALY	4	2	1	-	-	-	7	316	20	9	2	-	347		354
LUX	LUXEMBOURG	-	2	13	1	12	1	29	33	-	1	1	-	35		64
NET	NETHERLANDS	-	-	7	-	10	-	17	38	9	-	1	-	48		65
NOR	NORWAY	*						0						0		0
POL	POLAND	96	138	80	1	2	4	321	940	20	43	111	80	1194	1	1516
POR	PORTUGAL	1)	-	-	-	-	-	1						0		1
ROM	ROMANIA	5	16	9	-	71	2	103	30	3	2	-	2	37		140
SPA	SPAIN	*						0						0		0
SWE	SWEDEN	*						0						0		0
SWI	SWITZERLAND + LIECHT	13	53	43	5	38	-	152	673	44	32	26	1	776		928
TUR	TURKEY	890	120	335	10	50	40	1445	1	2	-	-	12	15		1460
YUG	YUGOSLAVIA	23	25	23	1	15	6	93	1456	5	-	8	41	1510		1603
TOTAL		1334	1014	1390	110	746	67	4661	17123	367	474	770	222	18956	1	23618
PER CENT		5.6	4.3	5.9	0.5	3.2	0.3	19.7	72.5	1.6	2.0	3.3	0.9	80.3	0.0	100.0

* NO CASES, 1) IMPORTED FROM MOZAMBIQUE.

TABLE 3 RABIES CASE RATES (% TOTAL) FOR INDIVIDUAL ANIMAL SPECIES AND FOR TOTAL CASES OF 10 EUROPEAN COUNTRIES RANKING HIGHEST IN 1984.

EUR		EUROPE											1984		1. 1.84 - 31.12.84	
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		1334	1014	1390	110	746	67	4661	17123	367	474	770	222	18956	1	23618
PER CENT INVOLVEMENT / COUNTRY																
DEU	FED.REP. OF GERMANY	5.0	23.0	31.9	33.6	23.6	10.4	20.7	30.7	37.3	57.6	51.7	9.0	32.1		29.9
FRA	FRANCE	7.4	11.6	10.3	38.2	26.1	3.0	12.9	12.7	8.2	-	2.5	23.0	12.0		12.2
CZE	CZECHOSLOVAKIA	2.9	9.4	0.1	-	0.4	4.5	3.0	12.9	3.0	6.3	5.8	0.9	12.1		10.3
DDR	GERMAN DEM. REPUBLIC	4.5	11.7	4.5	7.3	18.2	3.0	8.3	8.6	2.5	11.2	11.0	2.7	8.6		8.5
YUG	YUGOSLAVIA	1.7	2.5	1.7	0.9	2.0	9.0	2.0	8.5	1.4	-	1.0	18.5	8.0		6.8
POL	POLAND	7.2	13.6	5.8	0.9	0.3	6.0	6.9	5.5	5.4	9.1	14.4	36.0	6.3	100.0	6.4
TUR	TURKEY	66.7	11.8	24.1	9.1	6.7	59.7	31.0	0.0	0.5	-	-	5.4	0.1		6.2
AUT	AUSTRIA	0.4	2.6	2.8	0.9	1.2	-	1.7	6.9	20.4	5.3	8.4	1.4	7.1		6.0
HUN	HUNGARY	2.2	5.1	1.2	0.9	0.5	-	2.2	6.2	0.3	0.4	0.9	1.8	5.7		5.0
SWI	SWITZERLAND + LIECHT	1.0	5.2	3.1	4.5	5.1	-	3.3	3.9	12.0	6.8	3.4	0.5	4.1		3.9
TOTALS FROM 10 COUNTRIES		1322	979	1188	106	628	64	4287	16425	334	458	764	220	18201	1	22489
EQUAL % TOTAL		99.1	96.5	85.5	96.4	84.2	95.5	92.0	95.9	91.0	96.6	99.2	99.1	96.0	100.0	95.2

TABLE 4

EUR		EUROPE		4/84		RABIES CASES 'OTHER ANIMAL SPECIES'										1.10.84 - 31.12.84	
LOCATION		OTHER DOMESTIC ANIMALS				OTHER WILD ANIMALS										TOTAL	
CODE	NAME	DONKEY	PIG	OTH.DO HERBIV	OTHERS	WOLF	RACCOON DOG	BROWN BEAR	RACCOON	OTH.WI CARNIV	WILD BOAR	MOUFLON	HEDGE HOG	HOUSE MOUSE	OTHERS		
CZE	CZECHOSLOVAKIA	-	3	-	-	-	-	1	-	1	-	-	-	-	-	5	
DDR	GERMAN DEM. REPUBLIC	-	-	-	-	-	-	-	-	-	2	1	-	-	-	3	
DEU	FED.REP. OF GERMANY	-	1	1	-	-	-	-	2	-	2	-	1	-	-	7	
FRA	FRANCE	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	
HUN	HUNGARY	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
POL	POLAND	-	-	-	-	-	16	-	-	-	4	-	1	-	-	21	
TUR	TURKEY	10	-	3	-	1	-	-	-	-	-	-	-	3	-	17	
YUG	YUGOSLAVIA	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2	
TOTAL		10	4	4	2	1	16	1	2	1	9	1	2	3	11	67	
PER CENT		14.9	6.0	6.0	3.0	1.5	23.9	1.5	3.0	1.5	13.4	1.5	3.0	4.5	16.4	100.0	

TABLE 5

EUR		EUROPE			1984			RABIES CASES 'OTHER ANIMAL SPECIES'															1. 1.84 - 31.12.84		
LOCATION		OTHER DOMESTIC ANIMALS						OTHER WILD ANIMALS															TOTAL		
CODE	NAME	OTH. DOM. CARNIVOR	DONKEY	PIG	OTH. DOM. HERBIVOR	DOMESTIC RABBIT	OTHERS	WOLF	RACCOON DOG	WILD CAT	BROWN BEAR	RACCOON	OTH. WILD CARNIVOR	WILD BOAR	MOUFLON	CHAMOIS	HEDGEHOG	SQUIRREL	HOUSE MOUSE	MUSKRAT	OTH. SMALL RODENTS	WILD RABBIT		HARE	OTHERS
AUT	AUSTRIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	3
CZE	CZECHOSLOVAKIA	-	-	3	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	5
DDR	GERMAN DEM.REPUB	-	-	1	-	1	-	-	-	-	-	-	-	3	2	-	-	-	-	-	1	-	-	-	8
DEU	FED.REP. GERMANY	-	-	6	1	-	-	-	-	1	-	5	-	9	-	-	1	-	-	1	-	1	1	1	27
FRA	FRANCE	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	53
HUN	HUNGARY	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	2	-	-	4
LUX	LUXEMBOURG	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
POL	POLAND	1	-	2	-	1	-	1	61	-	-	-	-	7	-	-	4	6	-	-	-	-	1	-	84
ROM	ROMANIA	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4
SWI	SWITZERLAND + LI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
TUR	TURKEY	-	27	-	13	-	-	2	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	52
YUG	YUGOSLAVIA	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	47
TOTAL		1	27	12	14	2	11	3	61	2	1	5	1	20	2	4	5	6	10	1	1	3	2	95	289
PER CENT		0.3	9.3	4.2	4.8	0.7	3.8	1.0	21.1	0.7	0.3	1.7	0.3	6.9	0.7	1.4	1.7	2.1	3.5	0.3	0.3	1.0	0.7	32.9	100.0

TABLE 6

EUR		EUROPE		1977-1984				RABIES CASES						1. 1.77 - 31.12.84		
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
AUT	AUSTRIA	59	266	353	12	128	4	822	11526	795	234	1069	26	13650	1	14473
BEL	BELGIUM	15	97	568	31	140	-	851	1172	11	25	11	-	1219	1	2071
CZE	CZECHOSLOVAKIA	254	413	25	-	29	7	728	9681	93	143	183	36	10136		10864
DDR	GERMAN DEM. REPUBLIC	628	926	530	33	692	17	2826	10680	80	340	662	65	11827	1	14654
DEN	DENMARK	-	-	42	1	5	-	48	308	-	18	1	-	327		375
DEU	FED. REP. OF GERMANY	641	1473	2826	274	1099	35	6348	34396	800	1903	2638	319	40056		46404
FRA	FRANCE	454	692	1485	183	998	9	3821	13051	194	5	117	286	13653	2	17476
HUN	HUNGARY	172	336	108	3	26	9	654	8022	11	10	36	29	8108		8762
ITA	ITALY	12	11	3	1	3	-	30	1686	139	42	53	2	1922		1952
LUX	LUXEMBOURG	4	21	158	7	55	1	246	333	4	11	8	1	357		603
NET	NETHERLANDS	1	-	7	-	10	-	18	55	9	-	1	-	65		83
POL	POLAND	436	732	525	25	25	15	1758	4982	101	139	482	372	6076	2	7836
ROM	ROMANIA	51	70	108	8	126	20	383	194	14	8	3	13	232	3	618
SWI	SWITZERLAND + LIECHT	65	662	473	42	381	11	1634	6487	428	335	372	28	7650	3	9287
YUG	YUGOSLAVIA	147	145	88	1	26	21	428	7226	11	-	12	279	7528	8	7964
TOTAL		2939	5844	7299	621	3743	149	20595	109799	2690	3213	5648	1456	122806	21	143422
PER CENT		2.0	4.1	5.1	0.4	2.6	0.1	14.4	76.6	1.9	2.2	3.9	1.0	85.6	0.0	100.0

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TABLE 7

EUR		EUROPE		1977-1984				RABIES CASES						1. 1.77 - 31.12.84		
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
GRE	GREECE	15	-	-	3	-	-	18						0		18
POR	PORTUGAL	1	-	-	-	-	-	1						0		1
SPA	SPAIN	10	3	-	-	-	-	13	2	-	-	-	-	2		15
TUR	TURKEY	8109	854	3245	98	519	290	13115	14	7	4	-	154	179	5	13299
TOTAL		8135	857	3245	101	519	290	13147	16	7	4	0	154	181	5	13333
PER CENT		61.0	6.4	24.3	0.8	3.9	2.2	98.6	0.1	0.1	0.0	0.0	1.2	1.4	0.0	100.0

AUT

A U S T R I A

R A B I E S C A S E S

1.10.84 - 31.12.84

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	
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL
104	GUESSING						0	1	-	-	-	-	1		1	
108	OBERPULLENDORF						0	1	-	-	-	-	1		1	
201	KLAGENFURT-STADT						0	1	1	-	-	-	2		2	
203	HERMAGOR						0	2	-	-	-	-	2		2	
204	KLAGENFURT-LAND						0	2	1	-	-	-	3		3	
205	SANKT VEIT AN DER GL	-	2	3	-	1	-	6	23	3	-	1	27		33	
206	SPITTAL AN DER DRAU	-	-	1	-	-	-	1	-	-	-	1	1		2	
208	VOELKERMARKT	-	1	-	-	-	-	1	15	-	-	-	15		16	
210	FELDKIRCHEN						0	2	-	-	-	-	2		2	
309	GMUEND						0	3	-	-	-	-	3		3	
311	HORN						0	3	-	-	-	-	3		3	
313	KREMS AN DER DONAU-L						0	15	1	-	-	-	16		16	
315	MELK						0	1	-	-	-	-	1		1	
316	MISTELBACH						0	9	-	-	1	-	10		10	
325	ZWETTL	1	3	-	-	-	-	4	28	-	-	-	28		32	
406	FREISTADT	1	-	-	-	-	-	1	16	1	1	-	18		19	
411	PERG						0	1	-	-	-	-	1		1	
413	ROHRBACH						0	5	-	-	-	-	5		5	
416	URFAHR-LAND						0	4	-	-	-	-	4		4	
504	SANKT JOHANN IM PONG						0	17	1	-	-	-	18		18	
505	TAMSWEG						0	5	1	-	3	-	9		9	
506	ZELL AM SEE	-	-	3	-	-	-	3	16	2	-	2	20		23	
606	GRAZ-LAND						0	2	-	-	-	-	2		2	
608	JUDENBURG						0	5	-	-	-	-	5		5	
609	KNITTELFELD	-	-	-	-	1	-	1	-	-	-	-	0		1	
614	MURAU						0	4	-	-	-	-	4		4	
616	VOITSBERG						0	2	-	-	-	-	2		2	
617	WEIZ						0	4	-	-	-	-	4		4	
702	IMST	-	-	1	-	-	-	1	-	-	-	-	0		1	
703	INNSBRUCK-LAND						0	1	-	-	-	-	1		1	
704	KITZBUEHEL						0	1	-	-	-	-	1		1	
708	REUTTE	-	-	-	-	1	-	1	6	-	1	-	7		8	
709	SCHWAZ						0	4	-	-	-	-	4		4	
801	BLUDENZ	-	-	4	1	1	-	6	14	1	1	-	16		22	
802	BREGENZ	-	-	3	-	-	-	3	8	-	-	1	9		12	
804	FELDKIRCH						0	2	1	-	1	-	4		4	
TOTAL		2	6	15	1	4	0	28	223	13	3	10	0	249	0	277
PER CENT		0.7	2.2	5.4	0.4	1.4	0.0	10.1	80.5	4.7	1.1	3.6	0.0	89.9	0.0	100.0

RABIES CASES

1.10.84 - 31.12.84

LOCATION		DOMESTIC ANIMALS						WILD ANIMALS					HUMAN CASES	TOTAL	
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER			OTHERS
BEL BELGIUM															
HH	HAINHAUT	-	-	3	-	-	-	3	2	-	-	-	-	2	5
LG	LIEGE	-	3	27	1	-	-	31	28	-	1	-	-	29	60
LI	LIMBURG	-	-	10	-	-	-	10	8	-	-	-	-	8	18
LX	LUXEMBOURG	-	2	27	1	3	-	33	21	-	-	-	-	21	54
NA	NAMUR	-	-	20	-	1	-	21	18	-	-	1	-	19	40
TOTAL		0	5	87	2	4	0	98	77	0	1	1	0	79	177
PER CENT		0.0	2.8	49.2	1.1	2.3	0.0	55.4	43.5	0.0	0.6	0.6	0.0	44.6	100.0
LUX LUXEMBOURG															
03	ESCH	-	-	2	-	-	-	2	3	-	-	-	-	3	5
04	LUXEMBOURG-CAMPAGNE	-	-	1	-	-	-	1	1	-	-	-	-	1	2
06	CLERVAUX	-	-	-	-	-	-	0	1	-	-	-	-	1	1
07	DIEKIRCH	-	-	-	-	-	-	0	1	-	-	-	-	1	1
08	REDANGE	-	-	1	-	-	-	1	1	-	-	-	-	0	1
TOTAL		0	0	4	0	0	0	4	6	0	0	0	0	6	10
PER CENT		0.0	0.0	40.0	0.0	0.0	0.0	40.0	60.0	0.0	0.0	0.0	0.0	60.0	100.0
NET NETHERLANDS															
05	LIMBURG	-	-	1	-	-	-	1	4	-	-	-	-	4	5

CZE

CZECHOSLOVAKIA

RABIES CASES

1.10.84 - 31.12.84

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
00	DISTRICT OF PRAGUE						0	1	-	-	-	-	1		1	
01	CENTRAL BOHEMIA	-	1	-	-	-	1	7	-	-	-	-	7		8	
02	SOUTH BOHEMIA	1	1	-	-	-	2	43	-	2	3	-	48		50	
03	WEST BOHEMIA	-	3	-	-	-	3	73	-	1	1	-	75		78	
04	NORTH BOHEMIA	2	7	-	-	-	9	107	-	1	4	-	112		121	
05	EAST BOHEMIA	-					0	19	-	1	2	-	22		22	
06	SOUTH MORAVIA	-	2	-	-	-	2	107	2	2	3	-	114		116	
07	NORTH MORAVIA	-	2	-	-	-	2	40	-	-	2	1	43		45	
0	CSR	3	16	-	-	-	19	397	2	7	15	1	422		441	
10	DISTRICT OF BRATISLAV	-	1	-	-	-	1	1	-	-	-	-	1		2	
11	WEST SLOVAKIA	-	3	-	-	-	3	22	-	-	-	-	22		28	
12	CENTRAL SLOVAKIA	5	6	-	-	1	12	12	-	-	1	1	14		26	
13	EAST SLOVAKIA	1	2	1	-	-	4	29	-	-	-	-	29		33	
1	SSR	6	12	1	-	1	23	64	-	-	1	1	66		89	
TOTAL		9	28	1	0	1	42	461	2	7	16	2	488	0	530	
PER CENT		1.7	5.3	0.2	0.0	0.2	0.6	7.9	87.0	0.4	1.3	3.0	0.4	92.1	0.0	100.0

DDR

GERMAN DEMOCRATIC REPUBLIC

R A B I E S C A S E S

1.10.84 - 31.12.84

LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL	
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL
01	HAUPTSTADT BERLIN							0	-	-	-	1	-	1		1
02	COTTBUS							0	11	-	-	-	1	12		12
03	DRESDEN	2	2	3	-	24	-	31	30	1	1	4	1	37		68
04	ERFURT	-	2	1	-	2	-	5	23	1	1	1	-	26		31
05	FRANKFURT/ODER	2	1	-	-	-	-	3	23	-	1	1	-	25		28
06	GERA	1	1	5	-	3	-	10	19	-	1	2	-	22		32
07	HALLE	1	5	2	-	-	-	8	25	-	1	1	-	27		35
08	KARL-MARX-STADT	1	10	2	-	9	-	22	10	-	1	3	-	14		36
09	LEIPZIG	-	-	1	1	5	-	7	22	-	2	-	-	24		31
10	MAGDEBURG	-	2	8	-	-	-	10	16	-	1	3	-	20		30
11	NEUBRANDENBURG	3	2	-	-	-	-	5	17	-	1	1	-	19		24
12	POTSDAM	1	2	2	-	1	-	6	20	-	-	3	-	23		29
13	ROSTOCK	1	-	1	-	1	-	3	19	-	-	-	-	19		22
14	SCHWERIN	-	1	1	-	-	-	2	25	1	2	-	-	28		30
15	SUHL	1	3	2	-	3	-	9	36	1	1	1	1	40		49
TOTAL		13	31	28	1	48	0	121	296	4	13	21	3	337	0	458
PER CENT		2.8	6.8	6.1	0.2	10.5	0.0	26.4	64.6	0.9	2.8	4.6	0.7	73.6	0.0	100.0

DEU

FEDERAL REPUBLIC OF GERMANY

RABIES CASES

1.10.84 - 31.12.84

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
010 SCHLESWIG-HOLSTEIN							0	-	-	1	-	-	1		1
020 HAMBURG							0						0		0
031 BRAUNSCHWEIG			3	-	-	-	3	23	-	-	-	-	23		26
032 HANNOVER	1	2	15	-	1	1	20	56	2	3	7	-	68		88
033 LUENEBOURG	1	2	5	-	-	-	8	23	-	2	4	-	29		37
034 WESER-EMS							0	3	-	-	-	-	3		3
040 BREMEN							0						0		0
051 DUESSELDORF	-	1	1	-	-	-	2	12	-	-	-	-	12		14
053 KOELN	-	-	18	2	2	-	22	52	-	2	7	-	61		83
055 MUENSTER							0						0		0
057 DETMOLD	1	-	4	-	-	-	5	22	-	-	-	-	22		27
059 ARNSBERG	-	2	19	1	5	-	27	98	-	3	11	-	112		139
061 DARMSTADT	-	2	2	-	1	-	5	52	-	6	9	1	68		73
062 KASSEL	1	21	39	-	4	-	65	121	-	4	12	4	141		206
071 KOBLENZ	-	4	6	-	-	-	10	53	1	1	4	-	59		69
072 TRIER	1	2	22	1	10	-	36	24	1	1	1	-	27		63
073 RHEINHESSEN-PFALZ	3	8	5	2	-	1	19	75	2	2	5	-	84		103
081 STUTTGART	2	1	1	-	1	-	5	47	1	2	4	-	54		59
082 KARLSRUHE	-	-	2	-	-	-	2	33	2	-	1	-	36		38
083 FREIBURG	1	3	15	-	-	-	19	66	4	5	9	-	84		103
084 TUEBINGEN	1	8	5	-	-	-	14	120	3	9	8	-	140		154
091 OBERBAYERN	1	5	30	-	3	-	39	104	3	6	4	-	117		156
092 NIEDERBAYERN	-	1	2	-	-	-	3	73	4	2	4	-	83		86
093 OBERPFALZ	2	6	-	-	1	-	9	39	-	2	3	-	44		53
094 OBERFRANKEN	-	2	-	-	-	-	2	38	-	5	2	-	45		47
095 MITTELFRANKEN							0	14	1	1	1	-	17		17
096 UNTERFRANKEN	-	3	2	-	2	-	7	49	2	5	12	-	68		75
097 SCHWABEN	-	7	16	-	-	-	23	66	-	7	8	-	81		104
100 SAARLAND	-	2	2	-	-	-	4	5	-	-	5	-	10		14
110 BERLIN (WEST)							0	1	-	-	-	-	1		1
TOTAL	15	82	214	6	30	2	349	1269	26	69	121	5	1490	0	1839
PER CENT	0.8	4.5	11.6	0.3	1.6	0.1	19.0	69.0	1.4	3.8	6.6	0.3	81.0	0.0	100.0

FRA FRANCE

RABIES CASES

1.10.84 - 31.12.84

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	AIN	1	3	6	1	2	-	13	38	-	-	2	-	40		53
02	AISNE	-	3	1	1	3	-	8	19	-	-	1	1	21		29
08	ARDENNES	2	4	5	1	4	-	16	5	-	-	-	1	6		22
10	AUBE	-	-	-	1	-	-	1	29	-	-	-	1	30		31
21	COTE D'OR	-	1	3	-	3	-	7	13	-	-	-	1	14		21
25	DOUBS	-	3	-	-	9	-	12	24	-	-	1	1	26		38
38	ISERE	-	1	-	-	-	-	1	-	-	-	-	-	0		1
39	JURA	1	3	-	-	-	-	4	25	1	-	1	2	29		33
51	MARNE	-	1	-	1	-	-	2	12	-	-	-	-	12		14
52	MARNE (HAUTE)	-	-	2	-	3	-	5	9	-	-	-	-	9		14
54	MEURTHE-ET-MOSELLE	1	3	3	-	-	-	7	16	-	-	-	1	17		24
55	MEUSE	2	2	14	3	3	-	24	19	-	-	-	1	20		44
57	MOSELLE	2	1	2	-	3	-	8	14	-	-	-	-	14		22
58	NIEVRE	-	-	-	1	1	-	2	1	-	-	-	-	1		3
60	OISE	-	-	-	-	-	-	0	15	-	-	-	1	16		16
67	RHIN (BAS)	2	-	2	-	2	-	6	13	-	-	2	1	16		22
68	RHIN (HAUT)	-	1	3	-	2	-	6	21	2	-	-	-	23		29
70	SAONE (HAUTE)	-	-	-	-	2	-	2	10	-	-	-	-	10		12
71	SAONE-ET-LOIRE	-	-	-	-	-	-	0	1	-	-	-	-	1		1
73	SAVOIE	-	-	-	-	-	-	0	2	-	-	-	-	2		2
74	SAVOIE (HAUTE)	1	1	-	-	7	-	9	9	-	-	-	-	9		18
77	SEINE-ET-MARNE	1	1	2	-	-	-	4	36	-	-	-	-	36		40
80	SOMME	-	-	-	-	-	-	0	1	-	-	-	-	1		1
88	VOSGES	1	3	-	1	5	-	10	38	1	-	-	-	39		49
89	YONNE	-	-	-	-	-	-	0	4	-	-	-	-	4		4
90	TERR.DE BELFORT	-	-	1	-	-	-	1	2	-	-	-	-	2		3
93	SEINE SAINT DENIS	-	-	-	1	-	-	1	39	-	-	-	-	39		40
95	VAL D'OISE	-	-	-	-	-	-	0	41	-	-	-	-	41		41
TOTAL		14	31	44	11	49	0	149	456	4	0	7	11	478	0	627
PER CENT		2.2	4.9	7.0	1.8	7.8	0.0	23.8	72.7	0.6	0.0	1.1	1.8	76.2	0.0	100.0

HUN

HUNGARY

RABIES CASES

1.10.84 - 31.12.84

LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL	
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL
01	BUDAPEST						0	3	-	-	-	-	3		3	
02	BARANYA	1	2	1	-	-	4	29	-	-	-	-	29		33	
03	BACS-KISKUN						0	12	-	-	-	-	12		12	
04	BEKES	3	1	3	-	-	7	19	-	-	-	-	19		26	
05	BORSOD-ABAUJ-ZEMPLEN	-	2	-	-	-	2	14	-	-	-	-	14		16	
06	CSONGRAD	-	2	-	-	-	2	15	-	-	-	-	15		17	
07	FEJER	2	2	-	-	-	4	34	-	-	-	-	34		38	
08	GYDER-SOPRON						0	20	-	-	-	-	20		20	
09	HAJDU-BIHAR	1	4	-	-	-	5	11	-	-	-	-	11		16	
10	HEVES						0	1	-	-	-	-	1		1	
11	KOMAROM						0	16	-	-	-	-	16		16	
12	NOGRAD	-	2	-	-	-	2	9	-	-	-	-	9		11	
13	PEST	1	1	-	-	-	2	27	-	-	-	-	27		29	
14	SOMOGY	1	-	-	-	1	2	22	-	-	-	1	23		25	
15	SZABOLCS-SZATMAR	1	1	-	-	-	2	32	-	1	-	-	33		35	
16	SZOLNOK						0	4	-	-	-	-	4		4	
17	TOLNA	-	2	-	-	-	2	16	-	-	2	-	18		20	
18	VAS						0	17	-	-	-	-	17		17	
19	VESZPREM	-	1	-	-	-	1	20	-	-	-	-	20		21	
20	ZALA	-	-	1	-	-	1	10	-	-	-	-	10		11	
TOTAL		10	20	5	0	1	0	36	331	0	1	2	1	335	0	371
PER CENT		2.7	5.4	1.3	0.0	0.3	0.0	9.7	89.2	0.0	0.3	0.5	0.3	90.3	0.0	100.0

RABIES CASES

1.10.84 - 31.12.84

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
ITA ITALY															
23 SONDRIO							0	3	1	-	-	-	4		4
24 BERGAMO							0	6	-	-	-	-	6		6
25 BRESCIA							0	3	-	-	-	-	3		3
33 UDINE							0	-	1	-	-	-	1		1
38 TRENTO							0	17	-	-	-	-	17		17
TOTAL	0	0	0	0	0	0	0	29	2	0	0	0	31	0	31
PER CENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.5	6.5	0.0	0.0	0.0	100.0	0.0	100.0
YUG YUGOSLAVIA															
I SR BOSNA I HERCEGOVI	1	-	2	-	-	-	3	15	-	-	-	-	15		18
III SR HRVATSKA	2	3	1	-	2	2	10	178	1	-	2	-	181		191
V SR SLOVENIJA	-	1	-	-	-	-	1	58	4	-	3	-	65		66
VI SR SRBIJA							0	2	-	-	-	-	2		2
VII SAP VOJVODINA	5	2	-	-	-	-	7	56	-	-	3	-	59		66
TOTAL	8	6	3	0	2	2	21	309	5	0	8	0	322	0	343
PER CENT	2.3	1.7	0.9	0.0	0.6	0.6	6.1	90.1	1.5	0.0	2.3	0.0	93.9	0.0	100.0

POL

POLAND

RABIES CASES

1.10.84 - 31.12.84

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
05	BIALYSTOK							0	2	-	-	-	-	2		2
09	BYDGOSZCZ	1	2	-	-	-	-	3	4	-	-	1	-	5		8
11	CHELM	-	-	1	-	-	-	1						0		1
15	CZESTOCHOWA							0	2	-	-	-	-	2		2
17	ELBLAG	-	1	5	-	-	-	6	7	-	1	1	4	13	1	20
19	GDANSK	1	1	2	-	-	-	4	6	-	-	3	1	10		14
21	GORZOW	2	3	1	-	-	-	6	27	-	1	-	1	29		35
23	JELENIA GORA	1	1	-	-	-	-	2	21	-	-	-	1	22		24
25	KALISZ	2	-	-	-	-	-	2	9	-	1	1	-	11		13
27	KATOWICE							0	-	-	-	1	-	1		1
33	KOSZALIN	-	-		-	-	-	2	17	-	-	2	-	19		21
37	KROSNO	-	-	10	-	-	-	10	1	-	-	-	-	1		11
39	LEGNICA	-	1	1	-	-	-	2	6	1	-	-	-	7		9
41	LESZNO	-	1	-	-	-	-	1	8	-	-	3	-	11		12
43	LUBLIN	-	1	-	-	-	-	1	3	-	-	-	-	3		4
49	NOWY SACZ	1	-	1	-	-	-	2						0		2
51	OLSZTYN	-	2	2	-	-	-	4	4	1	-	-	5	10		14
53	OPOLE							0	7	-	-	-	-	7		7
57	PILA	1	2	-	-	-	-	3	6	-	1	1	2	10		13
63	POZNAN	3	10	1	1	-	-	15	64	1	5	13	2	85		100
67	RADOM							0	4	1	-	-	-	5		5
71	SIEDLCE							0	1	-	-	1	-	2		2
77	SLUPSK	2	3	1	-	-	-	6	8	1	-	1	2	12		18
79	SUWALKI	1	2	4	-	-	-	7	2	-	1	-	3	6		13
81	SZCZECIN	2	1	-	-	-	-	3	11	1	-	2	-	14		17
87	TORUN	5	1	8	-	-	-	14	9	-	3	-	-	12		26
89	WALBRZYCH	-	-	1	-	-	-	1	5	-	-	-	-	5		6
91	WLOCLAWEK							0	4	-	-	-	-	4		4
93	WROCLAW							0	27	-	2	2	-	31		31
97	ZIELONA GORA	-	2	2	-	-	-	4	14	-	1	1	-	16		20
TOTAL		22	34	42	1	0	0	99	279	6	16	33	21	355	1	455
PER CENT		4.8	7.5	9.2	0.2	0.0	0.0	21.8	61.3	1.3	3.5	7.3	4.6	78.0	0.2	100.0

SWI

SWITZERLAND AND LIECHTENSTEIN

R A B I E S C A S E S

1.10.84 - 31.12.84

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		
01 AARGAU	-	1	1	-	-	-	2	4	1	-	-	-	5		7
02 APPENZEL A.RH.							0	2	-	-	-	-	2		2
05 BASEL-LAND	1	-	-	-	-	-	1						0		1
06 BERN	-	-	-	-	1	-	1	9	-	-	2	-	11		12
07 FRIBOURG							0	5	-	-	-	-	5		5
08 GENEVE							0	1	2	-	1	-	4		4
10 GRAUBUENDEN							0	1	-	-	-	-	1		1
12 NEUCHATEL	-	1	-	-	-	-	1	1	-	-	-	-	1		2
15 SCHAFFHAUSEN							0	3	-	-	-	-	3		3
17 SOLOTHURN							0	1	2	-	-	-	3		3
18 ST.GALLEN	-	4	-	-	-	-	4	9	-	-	1	-	10		14
20 THURGAU	-	1	1	-	-	-	2	9	-	-	1	-	10		12
22 VAUD	-	1	1	-	-	-	2	14	-	3	1	-	18		20
25 ZUERICH	-	-	2	-	-	-	2	8	2	1	-	-	11		13
26 JURA	-	-	3	-	3	-	6	4	-	1	-	-	5		11
TOTAL	1	8	8	0	4	0	21	71	7	5	6	0	89	0	110
PER CENT	0.9	7.3	7.3	0.0	3.6	0.0	19.1	64.5	6.4	4.5	5.5	0.0	80.9	0.0	100.0

TUR

TURKEY

RABIES CASES

1.10.84 - 31.12.84

LOCATION CODE NAME		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS		
001	ADANA	7	3	10	-	1	-	21	-	-	-	-	1	1	22
002	ADIYAMAN	2	-	-	-	-	-	2	-	-	-	-	-	0	2
003	AFYON	5	-	-	-	-	-	5	-	-	-	-	-	0	5
005	AMASYA	-	-	1	-	1	-	2	-	-	-	-	-	0	2
006	ANKARA	-	3	1	-	-	-	4	-	-	-	-	-	0	4
007	ANTALYA	2	8	2	1	-	-	13	-	-	-	-	-	0	13
009	AYDIN	5	-	1	-	-	-	6	-	-	-	-	-	0	6
010	BALIKESIR	4	-	-	-	-	-	4	-	-	-	-	-	0	4
011	BILECIK	1	-	-	-	-	-	1	-	-	-	-	-	0	1
014	BOLU	1	-	7	-	-	-	8	-	-	-	-	-	0	8
015	BURDUR	1	-	-	-	-	-	1	-	-	-	-	-	0	1
016	BURSA	4	2	-	-	-	-	6	-	-	-	-	-	0	6
017	CANAKKALE	2	-	-	-	1	-	3	-	-	-	-	-	0	3
018	CANKIRI	1	-	-	-	-	-	1	-	-	-	-	-	0	1
019	CORUM	2	-	1	-	-	1	4	-	-	-	-	-	0	4
020	DENIZLI	11	-	2	-	-	-	13	-	-	-	-	1	1	14
023	ELAZIG	-	1	1	-	-	-	2	-	-	-	-	-	0	2
025	ERZURUM	-	-	-	-	-	-	0	1	-	-	-	-	1	1
026	ESKISEHIR	1	1	-	-	-	-	2	-	-	-	-	-	0	2
027	GAZIANTEP	4	1	3	-	-	1	9	-	-	-	-	1	1	10
029	GUEMUESHANE	1	-	-	-	-	-	1	-	-	-	-	-	0	1
032	ISPARTA	1	-	-	-	-	1	2	-	-	-	-	-	0	2
033	ICEL	1	1	-	-	-	1	3	-	-	-	-	-	0	3
034	ISTANBUL	11	2	1	-	-	1	15	-	-	-	-	-	0	15
035	IZMIR	23	1	5	1	2	1	33	-	-	-	-	-	0	33
036	KARS	3	-	1	1	-	-	5	-	-	-	-	-	0	5
037	KASTAMONU	3	-	2	-	-	1	6	-	-	-	-	-	0	6

TUR CONTINUED

LOCATION		DOMESTIC ANIMALS						WILD ANIMALS					HUMAN CASES	TOTAL		
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER			OTHERS	TOTAL
038	KAYSERI	2	-	-	-	-	-	2						0		2
039	KIRKLARELI	1	-	1	-	-	-	2						0		2
040	KIRSEHIR	-	-	-	-	-	1	1						0		1
041	KOCAELI	1	-	1	-	-	-	2						0		2
042	KONYA	5	3	2	-	-	-	10						0		10
043	KUETAHYA	-	1	-	-	-	-	1						0		1
045	MANISA	3	-	-	-	-	2	5						0		5
046	KAHRAMAN MARAS	1	1	3	-	-	1	6						0		6
048	MUGLA	4	4	2	-	-	-	10						0		10
049	MUS	3	-	7	-	-	-	10						0		10
051	NIGDE	-	-	-	-	2	-	2						0		2
052	ORDU	1	1	3	-	-	-	5						0		5
054	SAKARYA	7	-	6	-	-	-	13						0		13
055	SAMSUN	10	4	9	-	-	-	23						0		23
057	SINOP	4	-	5	-	-	-	9	-	-	-	-	1	1		10
058	SIVAS	2	-	1	-	-	1	4						0		4
059	TEKIRDAG	2	-	-	-	-	-	2						0		2
060	TOKAT	2	-	-	-	-	-	2						0		2
061	TRABZON	2	-	2	-	-	-	4						0		4
063	URFA	1	2	-	-	-	-	3						0		3
064	USAK	3	-	-	-	1	-	4						0		4
066	YOZGAT	2	1	1	-	-	1	5						0		5
067	ZONGULDAK	8	-	6	-	-	-	14						0		14
TOTAL		160	40	87	3	8	13	311	1	0	0	0	4	5	0	316
PER CENT		50.6	12.7	27.5	0.9	2.5	4.1	98.4	0.3	0.0	0.0	0.0	1.3	1.6	0.0	100.0

ROMANIA		RABIES CASES												1. 7.84 - 30. 9.84		
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	ALBA	-	1	-	-	-	-	1	1	-	-	-	-	1		2
02	ARAD	-	1	3	-	-	-	4						0		4
06	BISTRITA-NASAUD							0	1	-	-	-	-	1		1
10	BUZAU	-	-	-	-	1	-	1						0		1
11	CARAS-SEVERIN							0	2	-	-	-	-	2		2
21	HARGHITA	-	-	1	-	-	-	1						0		1
23	IALOMITA	-	-	1	-	-	-	1						0		1
25	MARAMURES	1	1	-	-	-	-	2						0		2
28	NEAMT	1	-	-	-	-	-	1						0		1
32	SALAJ							0	2	-	-	-	-	2		2
TOTAL		2	3	5	0	1	0	11	6	0	0	0	0	6	0	17
PER CENT		11.8	17.6	29.4	0.0	5.9	0.0	64.7	35.3	0.0	0.0	0.0	0.0	35.3	0.0	100.0

ROMANIA		RABIES CASES												1.10.84 - 31.12.84		
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	ALBA							0	1	-	-	-	-	1		1
02	ARAD	-	1	-	-	-	-	1	-	-	1	-	-	1		2
11	CARAS-SEVERIN	-	1	-	-	-	-	1						0		1
13	CLUJ	-	1	-	-	2	-	3	1	-	-	-	-	1		4
21	HARGHITA	-	1	1	-	-	-	2						0		2
22	HUNEDOARA							0	1	-	-	-	-	1		1
24	IASI	-	-	1	-	-	-	1	-	-	1	-	-	1		2
28	NEAMT	-	1	1	-	-	-	2	1	-	-	-	-	1		3
30	PRAHOVA							0	1	-	-	-	-	1		1
TOTAL		0	5	3	0	2	0	10	5	0	2	0	0	7	0	17
PER CENT		0.0	29.4	17.6	0.0	11.8	0.0	58.8	29.4	0.0	11.8	0.0	0.0	41.2	0.0	100.0

LIST OF CONTRIBUTORS

- AUT AUSTRIA**
Dr. W. K r o c z a
 Director
 Dr. E. S c h a r f e n
 Bundesanstalt für Tierseuchen-
 bekämpfung
 Robert-Koch-Gasse 17
 A-2340 Mödling /Austria
- BEL BELGIUM**
Dr. R. D e p i e r r e u x
 Ministère de l'Agriculture
 -Inspection Vétérinaire-
 18, Bd. de Berlaimont
 B-1000 Bruxelles /Belgium
- BUL BULGARIA**
Dr. N. T. B e l e v
 Directeur Général des Services
 Vétérinaires
 Ministry of Agriculture
 Sofia /Bulgaria
- CZE CZECHOSLOVAKIA**
Dr. M. C a p k a
 Chief Veterinary Officer
 Dr. J. N e u m a n n
 Federal Ministry of Agri-
 culture and Food
 11006 Praha-Tesnov /CSR
- DDR GERMAN DEMOCRATIC REPUBLIC**
Dr. K.-H. L e b e n t r a u
 Ministerrat der Deutschen
 Demokratischen Republik
 Min. f. Gesundheitswesen
 Hauptabt. Internationale Be-
 ziehungen /Abt. Nichtsozia-
 listische Staaten / WHO
 Rathausstr. 3
 DDR 102 Berlin
- DEN DENMARK**
Dr. E. S t o u g a a r d
 Chief Vet. Officer
 Veterinaerdirektoratet
 Frederiksgade 21
 DK-1265 Copenhagen /Denmark
 Dr. S. M ø l l g a a r d
 Senior Veterinary Officer
 Solsortevej 3B
 DK-8210 Aarhus /Denmark
 Dr. J. M u e l l e r
 State Veterinary Serum Lab.
 Bülowsvej 27
 DK-1870 Copenhagen /Denmark
- FIN FINLAND**
Dr. R. B e r g e r
 Chief of Animal Health Division
 Ministry of Agriculture and
 Forestry, Veterinary Department
 Helsinki /Finland
- FRA FRANCE**
Dr. J. B l a n c o u
 Directeur
 Centre d'Etudes sur la Rage
 de Nancy
 B.P. No. 9
 Malzeville /France
- GBR UNITED KINGDOM**
Dr. W.H.G. R e e s
 Chief Veterinary Officer
 Ministry of Agriculture,
 Fisheries & Food
 -Animal Health Division-
 Tolworth Surbiton/Surrey
- GRE GREECE**
Dr. V. H a n t z i s
 Director of Zooanthrop. Div.
 Dr. E. T s a g l a s
 Veterinary Officer
 Dep. of Echinococcosis-Rab.
 Veterinary Services
 Ministry of Agriculture
 Hellenic Republic
 2, Acharnon Street
 Athens (102) /Greece
- HUN HUNGARY**
Dr. A. G l ó z i k
 Director of Veterinary Services
 Dr. Laszlo K o l t a i
 Ministry of Agriculture
 Kossuth L. tér 9-11
 Budapest V. /Hungary
- ISL ICELAND**
Dr. Páll A. P á l s s o n
 Chief Veterinary Officer
 Postbox 110
 Reykjavik /Iceland
- IRE IRELAND**
Dr. P. J. O' C o n n o r
 Deputy Director Veterinary Serv.
 Dr. P. J. R o g a n
 Veterinary Liaison Officer
 Department of Agriculture
 Agriculture House
 Dublin 2 /Ireland

- ITA ITALY
 Dr. A. M a n t o v a n i
 Laboratorio di Parassitologia
 Istituto Superiore di Sanità
 Viale Regina Elena, 299
 I-00161 Roma

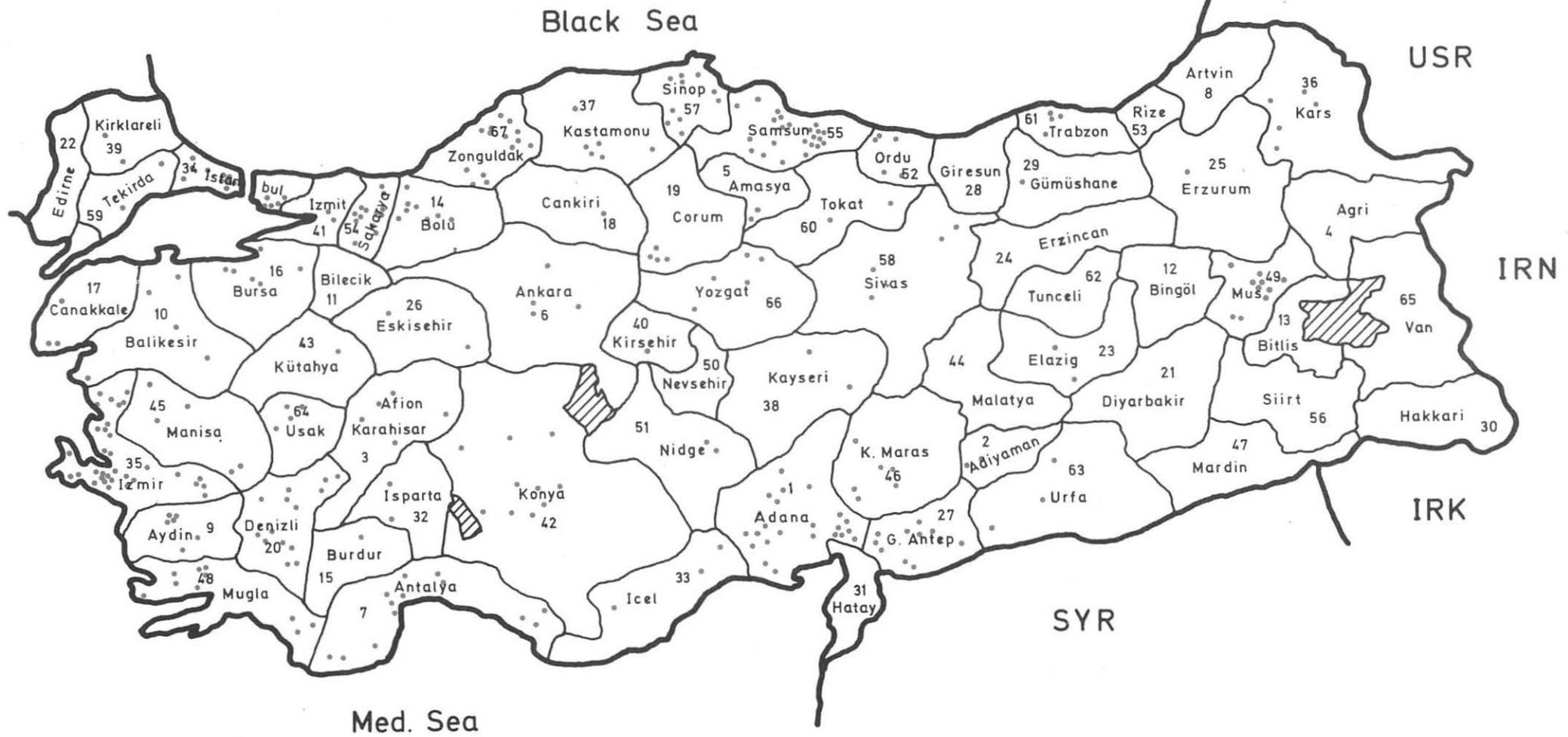
 Dr. S. P r o s p e r i
 Istituto di Malatti Infettive
 Univ. degli Studi di Bologna
 Via S. Giacomo 9/2
 I-40126 Bologna /Italy
- LUX LUXEMBOURG
 Dr. R. F r i s c h
 Directeur de l'Inspect. Gén. Vét.
 Ministère de l'Agriculture
 89, Rue d'Anvers
 B.P. 1403
 Luxembourg
- NET NETHERLANDS
 Dr. C.J. V e r m e u l e n
 Staatsoezicht op de
 Volksgezondheid
 Veterinaire Hoofdinspectie
 v.d. Volksgezondheid
 Postbus 439
 2260 AK Leidschendam /Netherl.
- NOR NORWAY
 Dr. Olav S a n d v i k
 Director of Vet. Services

 Dr. H.O. B a c h - G a n s m o
 Deputy Dir. of Vet. Services
 Det Kongelige Landbruksdepartm.
 Akersgate 42/Postboks 8007 Dep.
 Oslo 1 /Norway
- POL POLAND
 Dr. Andrzej B a d y o c z e k
 Head of Animal Health Division
 -Veterinary Department-
 Ministry of Agriculture
 ul. Wspolna
 00-930 Warszawa /Poland

 Dr. Danuta S e r o k o w a
 Head of Anthroozoonoses Lab.
 National Institute of Hygiene
 ul. Chocimska 24
 00-791 Warszawa /Poland
- POR PORTUGAL
 Dr. C.A.M. de Andrade Fontes
 Direccao-Geral da Pecuaria
 Rua Vitor Cordon, 4
 1294 Lisboa /Codex /Portugal
- ROM ROMANIA
 Dr. Valer T e u s d e a
 Directeur de la Direction
 Sanitaire Vétérinaire
 Ministère de l'Agriculture
 B-dul Republicii 24
 Bucuresti 3 /Romania
- SPA SPAIN
 Dr. M.A. D i a z Y u b e r o
 Subdirector General de Sanidad
 Animal
 Ministerio de Agricultura
 Madrid /Espagne
- SWE SWEDEN
 Dr. B. H e n r i c s o n
 Head of Department
 Lantbruksstyrelsen
 National Board of Agriculture
 Veterinary and Animal
 Production Department
 Vallgatan 6
 S-551 83 Jönköping /Sweden
- SWI SWITZERLAND
 Dr. A.I. W a n d e l e r
 Vet. Bacteriological Institute
 University of Berne
 Länggass Str. 122
 CH-3001 Berne /Switzerland
- TUR TURKEY
 Dr. Hasan E r t a n
 General Director of Vet. Serv.
 Dr. F. Y ü c e l
 Director, Zoonoses Department
 Tarim ve Orman Bakanligi,
 Ministry of Agriculture
 Ankara /Turkey
- USR UNION OF SOVIET SOCIALIST
 REPUBLICS
 Prof. B. C h e r k a s s k i y
 Chief of Zoonoses Laboratory
 Acad. V. P o k r o v s k i y
 Head of Central Institute
 Central Institute of Epidemiology
 Ministry of Public Health
 Moscow /USSR
- YUG YUGOSLAVIA
 Dr. M. R a d o v a n o v i c
 Adviser, Veterinary Department
 Federal Committee for Agriculture
 Belgrad /Yugoslavia
 Dr. Milos P e t r o v i ć
 Institut Pasteur
 Hajduk Veljkova 1
 21000 Novi Sad /Yugoslavia

WHO Coll. Centre
Tuebingen / DEU

Rabies Cases Turkey
4th Quarter 1984
316 cases reported



ISL
(rabies free)

NOR
(rabies free)

FIN
(rabies free)

SWE
(rabies free)

Rabies Cases Europe
4th Quarter 1984
5566 cases reported



DEN
(rabies free)

IRE
(rabies free)

GBR
(rabies free)

NET
(5)

BEL
(177)

DEU
(1839)

DDR
(458)

POL
(455)

CZE
(530)

AUT
(277)

HUN
(371)

FRA
(627)

SWI
(110)

ITA
(31)

YUG
(343)

ROM
(17)

BUL
(rabies free)

POR
(0)

SPA
(mainland rabies free)

ALB
(no data)

GRE
(0)

TUR
(315)

0 50 100 km