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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  
Helen C. J a c k s o n, Assistant 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 issue describes the reported rabies position in Europe for the 4th quarter 1981. The situation is described in general under 2. and for individual European countries under 2.1 - 2.26. The rabies case data are tabulated under 4.

In Section 3 there is a brief review of the rabies situation in Europe during 1981. Graphs of the quarterly rabies data, covering the period 1977-1981, for each country are included here. For comparison, the rabies data for Czechoslovakia, the German Democratic Republic, the German Federal Republic, Hungary, Poland and Switzerland are also shown as cases of rabies per 1000 sq km.

Section 3 also includes a note on a fifth case of human to human rabies transmission via corneal transplant, a breakdown of the costs associated with a single rabid dog in the U.S.A., and, finally, further information (and a correction) about the human rabies case from Ruanda first reported in Rabies Bulletin No. 2/1981.

Data for the 4th quarter 1981 have not yet been received for the European part of the USSR; the rabies situation in the 3rd quarter is described under 2.26. Information covering the 3rd and 4th quarters in Rumania is found under 2.20.

The geographical distribution of rabies cases in Europe during the 4th quarter 1981 is shown on the maps in the Annex.

## 2. RABIES IN EUROPE, 4TH QUARTER 1981

Table 1 on page 15 summarises the rabies case data reported to the Centre for the period October - December 1981.

A total of 5186 cases were reported in the 4th quarter. In wild animals, there were 3323 cases (64.1% of total) in foxes, 160 cases in badgers and other mustelids, 154 in deer and 58 in unspecified or other species of animal. There were 389 cases in dogs, 218 cats, 649 cattle and 235 in other domestic or farm animals. Three countries, the Federal Republic of Germany, France and Turkey, reported 80% of the cattle rabies cases and 80% of the dog rabies was reported by Turkey.

Bulgaria, Finland, the United Kingdom, Ireland, the Netherlands, Portugal and Sweden continued to remain rabies-free and Denmark, Greece, Norway and Spain reported no cases of rabies in the 4th quarter 1981.

Comparison with the 3rd quarter 1981 when 4440 cases were registered indicates an increase of 746 reported cases or 16.8%. An increase in the number of rabies cases was reported by Belgium, Czechoslovakia, the German Democratic Republic, the Federal Republic of Germany, France, Hungary, Poland and Yugoslavia.

Individual country reports follow:

## 2.1 Rabies in Austria (AUT)

by W. Krocza and E. Scharfen

In the 4th quarter 1981, 185 rabies cases were registered in Austria. There were 144 cases in foxes (77.8% of total), 37 cases in other wild animals and 4 cases in domestic animals. Comparison with the previous quarter, with 188 incidents of which 152 were cases of fox rabies, showed little change. Comparison with the 4th quarter 1980 (112 cases) however indicates an increase in recorded cases of 65.2%.

The most heavily infected area was again in Styria. 133 cases were recorded, primarily from the districts Bruck an der Mur, Judenburg, Knittelfeld, Leibnitz, Muerzzuschlag, Voitsberg and Weiz. The districts Lilienfeld, Neunkirchen and Scheibbs in Lower Austria can also be included as part of this infected zone.

In West Austria, there was one rabies case in Vorarlberg (district of Bregenz) and 12 sporadic cases in Tyrol in the districts Lienz, Kufstein, Innsbruck Land, Imst and Reutte. One case of rabies was diagnosed both in Braunau and Steyr-Land in Upper Austria and in Carinthia, the districts Völkermarkt, Spittal an der Drau and Hermagor recorded a total of 11 cases.

In the Burgenland, in east Austria, sporadic cases were recorded in districts near the border with Czechoslovakia.

The Laender Vienna and Salzburg were free of rabies.

816 animals were diagnosed rabid in 1980 compared with 779 during 1981. In 1981 there were 647 foxes (652 foxes in 1980), 56 badgers (58), 58 other wild animals (63) and 18 domestic animals (43 in 1980). The number of cases of cat rabies fell from 21 in 1980 to 9 in 1981. 12% fewer animals were sent for examination in 1981.

## 2.2 Rabies in Belgium (BEL)

by R. Depierreux

As anticipated, the tendency of rabies spread first seen during the latter part of 1980, was reinforced during 1981. A total of 173 rabies cases were recorded in 1981 compared with 47 in 1980 and 25 in 1979. In the 4th quarter 1981 alone, 91 rabies cases were confirmed - 51 foxes, 2 badgers, 3 martens, 28 cattle, 4 sheep, 1 horse and 2 cats.

The south east of the province of Liège, with 65 of the 91 cases, remained the most affected area. The front of the epizootic progressed slowly northwards (to Verviers) and westwards. The valley of Amlève was also infected.

Rabies spread into more communities in the south of the department of Liège, on the border with France adjoining the at present heavily infected french departments of la Meuse and la Meurthe et Moselle. Since the end of September, 13 cases have been registered in six communities. The habitat in this region is very suitable for the fox and despite measures to reduce the fox population, a new wave of rabies in the area must be expected.

### 2.3 Bulgaria (BUL)

The country remained rabies-free.

### 2.4 Rabies in Czechoslovakia (CZE)

by Dr. Neumann

During the 4th quarter 1981, rabies was diagnosed in 349 animals. Foxes accounted for the majority of cases (315 or 90.3%). In domestic animals, rabies was diagnosed in 7 dogs, 9 cats, 2 cattle, 1 sheep and 1 pig. The infection spread to the district of Havlíčkův Brod (1 case) in central Czech Socialist Republic, which has up to now been free of rabies.

A total of 1100 cases of rabies were reported in 1981, 1012 in the Czech Socialist Republic and 88 in the Slovak Socialist Republic. In wildlife, there were 988 cases (90%) in foxes, 28 in badgers and other mustelids (25%), 15 cases in roe deer and 1 case each in wild cat and boar. In domestic animals, rabies was diagnosed in 32 cats (2.9%), 25 dogs (2.3%), 4 cattle, 3 sheep, 1 goat, 1 pig and 1 polar fox (kept on a farm).

It had been thought that following the very large occurrence of rabies in 1980 (1212 cases), the number of cases in 1981 would be markedly lower. However, during 1981, a number of districts were newly infected and the number of rabies cases diagnosed was higher than expected.

### 2.5 Rabies in Denmark (DEN)

by S. Møllgaard

No cases of rabies were diagnosed during the 4th quarter 1981.

The laying of strychnine baits in plantations near the Danish-German border will continue until April 1982. Fox den gassing will be carried out in March and April in the southern part of the combat zone.

During 1981 only 3 rabies cases were registered. Two of these - a cow and a fox, were recorded in the first two months of the year more than 25 km from the Danish-German border. The third incident was reported in April; a fox very close to the Danish-German border.

### 2.6 Rabies in Germany, Democratic Republic (DDR)

During the last quarter 1981, 557 cases of rabies were registered in the German Democratic Republic. 410 (73.6%) were foxes, 20 (3.6%) dogs and 43 (7.7%) cats. In comparison with the previous quarter there has been an increase of 18.5% from 470 cases.

The Bezirke Erfurt, Suhl, Gera and Karl-Marx-Stadt in the south and Frankfurt in the east, recorded the heaviest density of cases. Halle, Leipzig and Cottbus recorded fewest cases.

A total of 1906 cases were reported in 1981. This compares with 2056 in 1980 and 1483 in 1979. In general, the southern Bezirke and the Bezirk Rostock in the north, record the highest density of cases.

## 2.7 Rabies in Germany, Federal Republic (DEU)

A total of 1376 cases was recorded for the 4th quarter 1981. There were 1073 cases (78.0%) in wild animals and 303 in domestic animals. In comparison with the preceding quarter rabies increased by 52 cases from 1320 and the number and proportion of cases in foxes fell from 952 (72.1% of total) in the 3rd quarter to 896 (65.1%) in the 4th.

A total of 5421 rabies cases were reported in 1981 in comparison with 6603 in 1980. The proportion of cases in the various animal species was very similar in both years. The proportion of cases in domestic farm animals (cattle, sheep and horses) and in deer increased by a small amount, respectively 9.0% to 10.3% and 3.8% to 5.7% whereas the proportion in foxes fell from 74% to 72%.

In Schleswig-Holstein and Niedersachsen, a total of 301 rabies cases were reported in 1981, about half the number of the previous two years. The majority of the cases were in the east of the area. In Nordrhein-Westfalen, 332 cases were reported. This is fewer than in 1980 (435 cases) but the disease reappeared in some western Kreise e.g. Aachen, Erftkreis, Euskirchen. In Hessen, there were 707 reported cases and in Rheinland-Pfalz 874. In this latter region, the heaviest rabies infection moved from the centre of the area at the beginning of the year to the north west in the last quarter. 1816 cases were reported from Baden-Wuerttemberg where, by the end of the year the heavy infection in the south, particularly the south west had thinned. In Bayern, a relatively thin southern strip about 100 km in depth reported about half the total number of rabies cases of 1326.

## 2.8 Finland (FIN)

The country remained rabies-free.

## 2.9 Rabies in France (FRA)

by L. Andral

827 rabies cases were reported in the 4th quarter 1981, 277 more than in the 3rd quarter (50% increase). There were 508 cases in foxes (61.4% of the total), 22 cases in other wild animals, and 297 in domestic animals (16 dogs, 34 cats, 175 cattle, 62 sheep, 9 horses and 1 unspecified). The majority of domestic animal cases (206) were in the three adjoining departments of la Moselle, la Meuse and, la Meurthe et Moselle.

In 1981, the evolution of enzootic fox rabies in France was characterised by an important increase in the number of cases diagnosed in domestic animals. The total number of rabies cases in domestic animals almost doubled from 306 in 1980 to 608 in 1981. This development, was not a consequence of a spectacular advance in the front wave of the disease, but a revival of an old focus in a zone reached by the disease as early as 1977. The best example of this phenomenon is given by the department of la Meuse where a total of 199 domestic animal rabies cases were registered in 1981 (10 dogs, 16 cats, 131 cattle, 39 sheep and goats and 3 horses) whereas in 1980, only 63 cases in domestic animals were recorded.

### 2.10 Rabies in Greece (GRE)

No cases of rabies were reported in the 4th quarter.

Three rabies cases were registered during 1981. All 3 were cases of dog rabies in the department of Evros near the border with Turkey. They were diagnosed during the 3rd quarter 1981 and were the first cases in Greece since the 4th quarter 1979.

### 2.11 United Kingdom (GBR)

The country remained rabies-free.

One case of human rabies was reported in 1981. The infection was acquired in India.

### 2.12 Rabies in Hungary (HUN)

372 rabies cases were registered in Hungary in the 4th quarter 1981. Of these, 348 were foxes, 5 dogs, 13 cats, 3 cattle and 1 donkey, 1 pig and 1 muskrat. Compared with the preceding quarter there has been an increase of 178 cases (from 194).

In Vas Komitate the number of rabies cases diagnosed increased from 12 to 36 and two thirds of these were from the north west corner of the region. Veszprem Komitate also reported a large increase, from 22 in the previous quarter to 43 in the 4th quarter; the area in and around the city of Varpalota reported about a quarter of the cases.

During 1981, a total of 1002 rabies cases were diagnosed, of which 923 (92%) were foxes and 64 (6.3%) dogs and cats.

### 2.13 Ireland (IRE)

The country remained rabies-free.

### 2.14 Rabies in Italy (ITA)

by A. Mantovani

79 rabies cases were reported during the last quarter 1981. Although fewer cases were diagnosed than in the 3rd quarter (113 cases) the pattern of progressive spread continued. The province of Trieste bordering Yugoslavia, 3 municipalities of the province Udine and 3 of the province Brescia were newly infected.

At present, 32 municipalities of 6 provinces - Udine, Trieste, Bolzano, Belluno, Sondrio and Brescia are infected. This includes the 4 regions Friuli-Venezia Giulia, Trentino-Alto Adige, Veneto and Lombardia. Rabies is spreading not only within Italy but also from time to time over the borders from Switzerland, Austria and Yugoslavia.

For the first time since sylvatic rabies entered Italy, rabies has been recorded in cattle. The affected animals were two cows in the province

of Udine, that had been vaccinated two months previously with ERA vaccine. The vaccine failure was traced to wrong keeping conditions. The antibody titres of other cattle vaccinated at the same time as the two cows with rabies, were in part negative whereas all cattle vaccinated with vaccine of the same series stored under correct conditions had positive antibody titres.

A total of 7742 animals were examined for rabies in 1981. 367 or 4.7% were rabies positive. The examined animals were 981 dogs, 667 cats (2 positive), 44 cattle (2 positive), 17 sheep and goats, 5007 foxes (320 positive), 158 badgers (23 positive), 304 other mustelids (13 positive), 253 deer (6 positive) and 372 other animals species (1 hare positive).

Fox monitoring is concentrated in the infected regions (Friuli-Venezia Giulia, Veneto, Trentino-Alto Adige and Lombardia), and in Piemonte (3 rabid foxes in 1981) and in the region of Valle d'Aosta bordering France, Switzerland and Piemonte. The regions Emilia-Romagna and Toscana have recently implemented fox monitoring.

#### 2.15 Rabies in Luxembourg (LUX)

by R. Frisch

27 cases of rabies were registered in the Grand Duchy of Luxembourg during the 4th quarter 1981. These were 14 foxes, 12 cattle and 1 ram (sheep). The most affected area was once again the eastern part of the country.

During 1981, 86 rabies cases were confirmed. This is almost four times as many as the 1980 total of 23 cases. In 1980 there were 17 fox rabies cases and 6 cases in cattle. During 1981, 56 foxes, 23 cattle, 2 sheep, 1 horse, 1 cat and 3 martens, were diagnosed rabid.

#### 2.16 Netherlands (NET)

The country remained rabies-free.

#### 2.17 Rabies in Norway (NOR)

No cases of rabies were reported in the 4th quarter.

During 1981 only one case of rabies was reported. This was a polar fox from the Island of Svalbard, diagnosed rabid in March.

#### 2.18 Rabies in Poland (POL)

103 rabies cases were reported in Poland during the 4th quarter 1981. There were 60 cases in foxes, 6 in racoon dogs, 12 in other wild animals and 26 in domestic animals.

The five departments of Elblag, Olstyn, Suwalki, Szczecin and Walbrzych reported 53 cases or just over half the total cases. The southern and eastern part of the country reported very few scattered cases (12 cases in 27 departments). Raccoon dog rabies cases (6 cases) were confined to



north and north central departments - Suwalki, Bydgoszcz, Elblag, Olsztyn and Ciechanow.

A total of 448 rabies cases were reported in Poland during 1981. This is less than half the total of 1980 (944 cases) and of the 3 years before. The majority of cases continue to come from the North and Western half of the country.

#### 2.19 Portugal (POR)

The country remained rabies-free.

#### 2.20 Rabies in Rumania (RUM)

##### 3rd and 4th quarters 1981

50 rabies cases were registered in the 3rd quarter 1981. These were 12 foxes, 3 dogs, 3 cats and 32 cattle. In the region of Brasov in the centre of Rumania there was a concentration of 24 cases of cattle rabies and in region Bacau there were 9 cases of rabies of which 6 were foxes. 17 further cases were reported from 11 regions mainly in the western half of Rumania.

During the 4th quarter, there were 32 reported rabies cases, 18 in domestic animals and 14 in wildlife. 17 of these were in 4 regions in the south east of Rumania - Ialomita, Teleorman, Giurgiu and Calarasi. The 7 rabies cases registered in north west Rumania were all in foxes.

A total of 128 cases of rabies were reported in 1981, compared with a total of 87 in 1980. The difference was due to an increase in the number of domestic farm animals recorded rabid. In 1980, there were 14 cattle, 1 horse and 6 sheep whereas in 1981 there were 44 cattle, 3 horses, 13 sheep and 11 unspecified domestic animals. The number of cases in dogs and foxes remained relatively constant at respectively 11 and 39 cases in 1980 and 10 and 36 cases in 1981.

#### 2.21 Rabies in Spain (SPA)

No cases were registered during the reporting period.

#### 2.22 Sweden (SWE)

The country remained rabies-free.

#### 2.23 Rabies in Switzerland (SWI)

by A. Wandeler

During the last quarter of 1981, the Swiss rabies diagnostic centre received 1152 animals for examination. 232 (20%) of these were positive for rabies, compared with 287 (25% of 1139 animals) in the previous quarter. 55% were in foxes and 35% in domestic animals. Half of the domestic animal cases were in cattle, all of them originating from areas without compulsory vaccination of cattle against rabies. An additional 96 rabies cases (88 foxes, 3 martens, 2 badgers, and 3 roe deer) were diagnosed histologically in canton Vaud, bringing the total of proven rabid cases to 328 (349 in the 3rd quarter 1981).

A shrew, which had bitten a person, entered the statistics of positive animals because a few brilliantly fluorescing inclusions were found in fluorescent antibody tests of brain smears. No virus however could be isolated from this animal by intracerebral inoculation of weanling or of baby mice.

The epizootic advanced slightly eastward in canton Fribourg and westward in central Switzerland.

During the period of observation 9 persons were bitten by proven rabid animals: 6 by cats, 2 by stone martens, and one by a fox.

#### 2.24 Rabies in Turkey (TUR)

538 rabies cases were reported in Turkey in the 4th quarter of 1981. 306 of the total (56.9%) were dogs, 27 cats and 166 (30.9%) cattle. There were 38 other domestic animal cases and 1 case in a fox.

Reported rabies distribution was very similar to that in the preceding quarter. The provinces Sinop, Samsun, Corum, Amasya, Ordu and Giresun in north Turkey reported a total of 123 cases of which 64 or about a half were in cattle and other farm animals. The provinces Istanbul, Bursa, Sakarya, Izmir, Manisa, Aydin and Denizli together reported a total of 172 cases but a much smaller proportion in cattle and other farm animals (37 or 22%). The north and western half of Turkey reported 90% of all rabies cases whereas the southern and eastern half only 10%.

The annual rabies total has increased each year since 1978. The totals were 1483 in 1978, 1595 in 1979, 2088 in 1980 and 2260 in 1981. The proportion of cases in dogs has varied between 51 and 73%.

#### 2.25 Rabies in Yugoslavia (YUG) by M. Petrović

##### i) 4th Quarter 1981

A total of 322 rabies cases were diagnosed during the 4th quarter 1981. This is 72 cases more (29% increase) than in the previous quarter but less than half the number registered in the 1st and 2nd quarters 1981 when respectively 686 and 858 cases were diagnosed. 300 cases (93% of total) in the 4th quarter were in wild animals and 22 in domestic animals.

In Slovenia, 224 cases were reported and rabies continued to move southwards. 30 of the 56 communities reported rabies and rabies infection was heaviest (55 cases) in the community Nova Gorica on the border with Italy. Croatia reported 42 cases of rabies, mostly in the west, and Wojwodina reported 56, mainly from the north and east.

##### ii) Evolution of Rabies in Yugoslavia

During the past few years both urban and sylvatic forms of rabies have been present in Yugoslavia, the former in the central and southern regions and the latter in the north of the country.

1965-1970 was a relatively favourable period with only sporadic cases in animals in areas with urban rabies, and, for the first time in Yugoslavia, no cases of rabies in man.

Urban rabies then began to expand again and from 1971-1980 was continuously present and took human victims every year. From 1971-1974 the epizooty increased, but diminished after 1975. The number of human cases was directly proportional to the number of cases in animals and as the number of infected animals diminished from 1977-1980, only 2 cases in humans were recorded per year. During 1981, no cases in man were recorded for the first time in ten years. The epizootiological situation in areas with urban rabies was good and only 1 case of animal rabies was diagnosed (in Serbia).

Sylvatic rabies reached the northern parts of Yugoslavia from Hungary and Austria. Wojwodina in Serbia, and Croatia were infected in 1977 and Slovenia in 1979. Rabies has spread continuously onto new areas. The wave of rabies that has spread through northern Yugoslavia was particularly visible in Slovenia.

In 1981, 2116 animals in 105 communities were diagnosed rabid. These were, 1891 foxes (89.4% of total cases), 21 dogs (1%), 46 cats (2.2%), 16 cattle (0.8%), and 1 sheep, 69 roe deer (3.3%), 59 badgers (2.8%) and 13 other wild animals (1 mouflon, 4 skunks, 5 martens, 1 hedgehog, 1 rabbit, 1 rat). Slovenia was the most heavily infected area with 1766 rabid animals in 41 communities. In Croatia, 187 animals were diagnosed rabid in 31 communities, and in Wojwodina there were 159 rabid animals in 30 communities. There were also four rabies cases in Central Serbia.

In summary, the largest number of animals recorded rabid since 1946, when records began, occurred in 1981. This was due to sylvatic rabies in the northern parts of the country Wojwodina, Croatia and Slovenia. It was however, the first time in many years that there were no human cases as a result of a very satisfactory situation in areas with urban rabies. There have as yet been no cases of human rabies in areas affected by sylvatic rabies.

## 2.26 Rabies in the Union of Soviet Socialist Republics (USSR)

3rd quarter 1981- by V. Pokrovskiy and B. Cherkasskiy

During the 3rd quarter of 1981, 81 cases of rabies in animals were recorded in the European part of USSR territory. This is less than the previous quarter of the current year (98 cases) and also less than in the 3rd quarter of 1980 (167 cases).

The greatest number of rabies cases (44%) was registered on the territory of the Ukrainian Soviet Socialist Republic.

### 3. MISCELLANEOUS

#### 3.1 Annual Summary of Rabies in Europe, 1981

Of the 26 countries participating in the European Rabies Surveillance System, 18 reported rabies in animals. The German Democratic Republic and the United Kingdom each reported one rabies case in man. Bulgaria, Finland, the United Kingdom, Ireland, the Netherlands, Portugal and Sweden remained free of rabies in animals.

Table 2 on page 16 summarises the situation in individual countries as reported to the Centre. A total of 19,549 rabies cases were reported in 1981 (excluding data for the Union of Soviet Socialist Republics). There were 4788 cases (24.5% of total) in domestic animals, 14,759 (75.5%) in wildlife and 2 cases in man. The animal species most frequently recorded rabid were foxes (67.8%), dogs (9.1%), cattle (8.0%), cats (4.1%), and badgers and other mustelids (3.6%). When the Turkish data are not included the percentage involvement is: foxes (76.7%), dogs (2.0%), cattle (5.8%), cats (3.9%) and badgers and other mustelids (4.1%).

Compared with 1980 (see table below), rabies occurrence in Europe increased by 5.1%. The total of cases reported increased in Belgium, France, Hungary, Italy, Luxembourg, Rumania, Switzerland, Turkey and Yugoslavia. Decreases were reported from Austria, Czechoslovakia, Denmark, the German Democratic Republic, the German Federal Republic, the Island of Svalbard (Norway) and Poland.

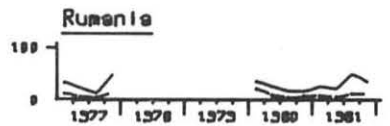
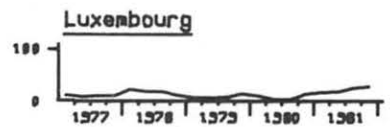
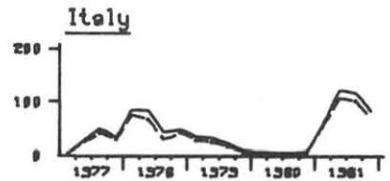
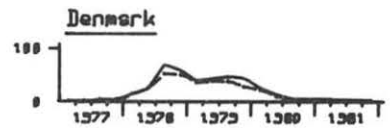
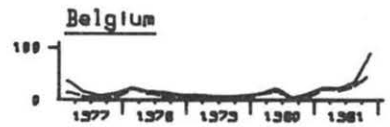
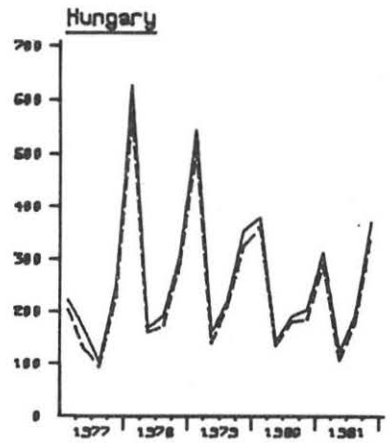
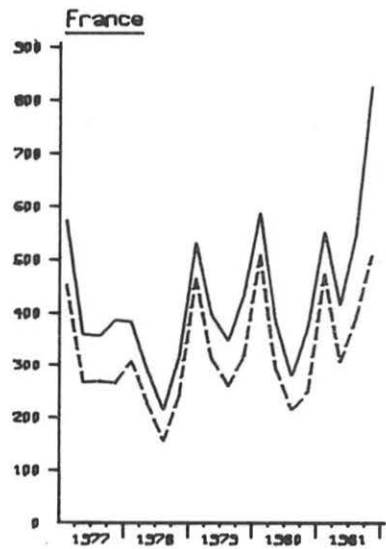
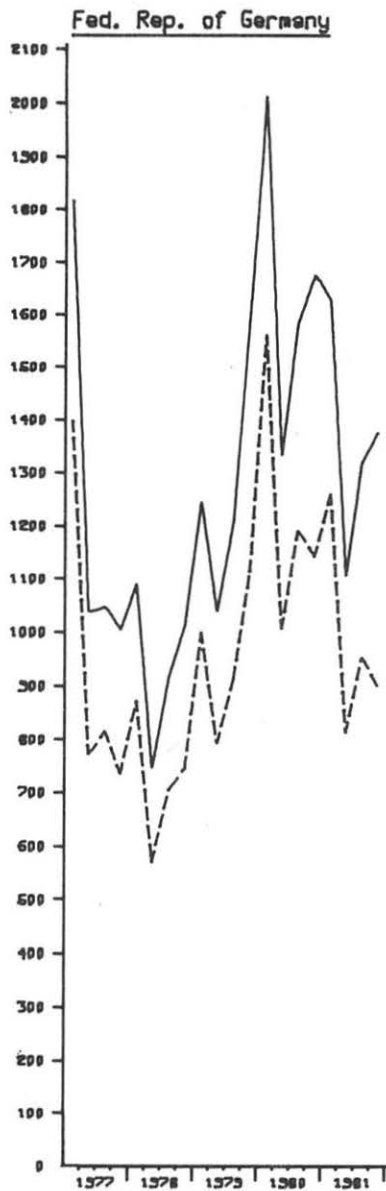
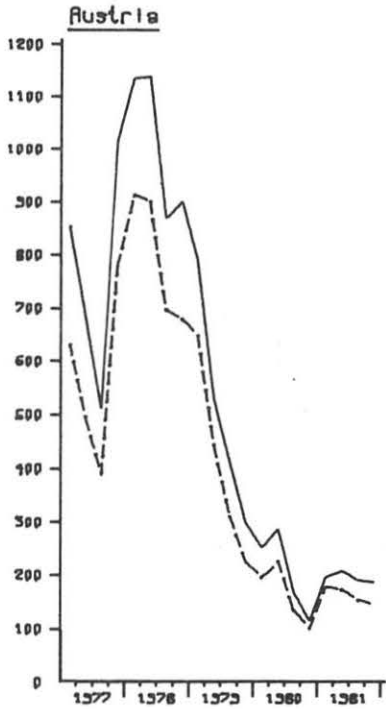
	All countries			All countries excluding Turkey		
	1979	1980	1981	1979	1980	1981
Total rabies cases	17,077	18,606	19,549	15,482	16,518	17,281
Percentage in domestic anim.	20.6	23.4	24.5	12.5	13.8	14.7
Percentage in dog	7.7	9.0	9.1	2.2	2.3	2.0
Percentage in wildlife	79.4	76.6	75.5	87.4	86.2	85.2
Percentage in fox	70.1	68.6	67.8	77.0	77.2	76.7

In Belgium, the German Democratic Republic, the German Federal Republic, France, Luxembourg, Poland and Switzerland the fox was involved in 65-72% of reported rabies cases. In Austria, Czechoslovakia, Hungary, Italy and Yugoslavia the percentage of fox involvement was higher and between 83 - 92%. In Turkey, dogs accounted for 63% of all cases of rabies.

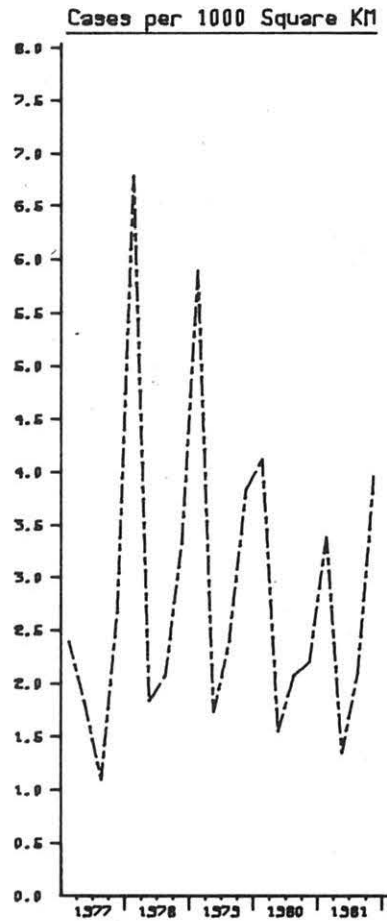
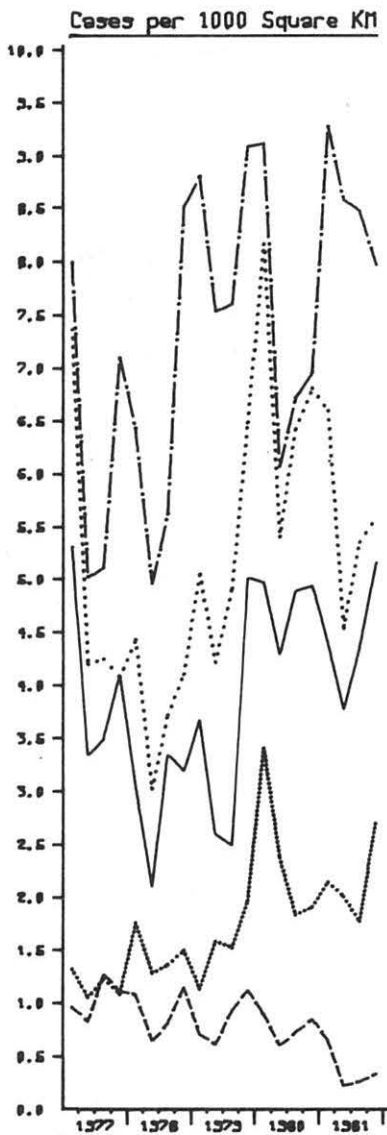
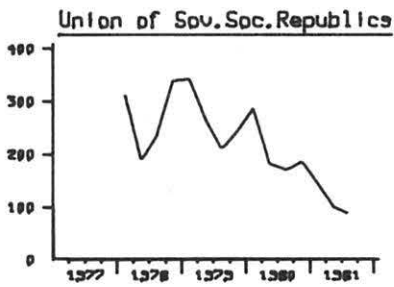
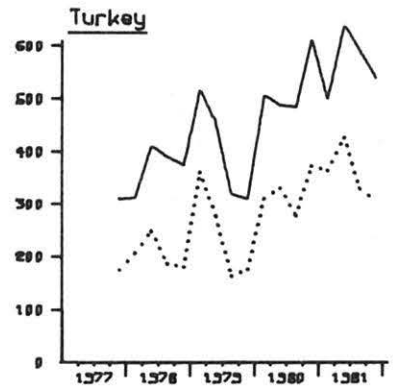
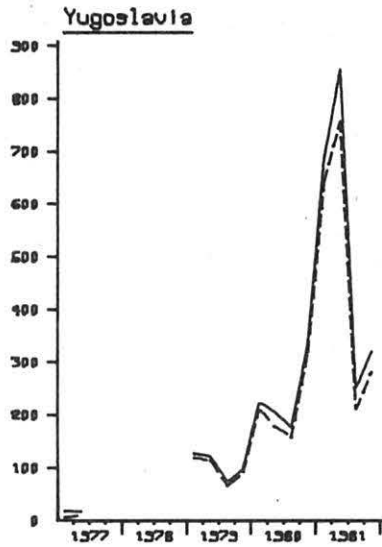
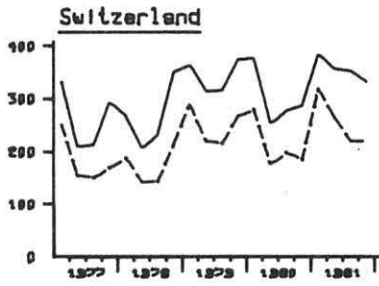
#### Developments and Trends

In Italy and Yugoslavia, the substantial increases (from 12 cases in 1980 to 367 in 1981 in Italy, and from 935 cases in 1980 to 2116 in 1981 in Yugoslavia) were the result of the spread of rabies infection southwards into new areas.

Rabies in the European Region  
(Quarterly Totals)  
1977 - 1981



— total  
- - - fox  
..... dog



- Switzerland
- ..... Fed. Rep. of Germany
- German Dem. Republic
- ..... Czechoslovakia
- Poland
- Hungary

France also reported a large increase, from 1620 rabies cases in 1980 to 2341 in 1981. This increase, in contrast, was due to a recrudescence of infection in the northern part of the country in which a large number of farm animals (cattle, sheep and horses) became infected. In this same geographic area, Belgium and the Grand Duchy Luxembourg also reported increases, from a total of 70 rabies cases in 1980 to 259 in 1981. In Luxembourg and east Belgium this was due to an extension westwards. Southern Belgium was also newly infected from France.

Poland reported only 448 cases in 1981 compared with 944 in 1980. The south and east of the country reported very few cases.

The graphs of rabies (pages 11 and 12) show the reported, absolute quarterly rabies totals in all animals, and in foxes, for each country. In countries with an apparently endemic rabies situation it is possible to relate the absolute number of rabies cases diagnosed, to the area. The two graphs on the lower half of page 12 illustrate this. Of these 6 countries, Switzerland reports the highest rabies case density (between 5.1 and 9.2 cases per 1000 sq km) whereas Poland reports the lowest (between 2.1 and 13). Hungary has reported some of the largest differences between the peak and trough of rabies occurrence during the year (peaks and troughs between 1.1 and 6.8 cases per 1000 sq km).

### 3.2 Rabies Transmission Via Corneal Transplant

Five cases of human to human transmission of rabies via corneal transplant have been reported since 1978. The first case was in the United States of America, the second in France and the third and fourth from the same donor in Thailand. In all four cases the diagnosis of rabies in the donor was made after the recipient developed fatal rabies.

The Pasteur Institute in Paris has reported the first case of this type of exposure where rabies was diagnosed in the donor on the day after transplantation. This made possible the immediate initiation of prophylactic therapy of rabies infection in the recipient. Interferon, human antirabies immunoglobulin and human diploid cell inactivated rabies vaccine were administered. Six months have elapsed and there have been no signs or symptoms of rabies in the recipient.

(Taken from World Health Organisation 'Weekly Epidemiological Record' 1982 No. 5, page 36).

### 3.3 The Cost of One Rabid Dog - California, U.S.A.

On May 10th 1980, a dog in Yuba County, California was placed under observation after biting 3 people. Because the dog appeared ill, it was killed and tissues were tested and found positive for rabies. 70 persons with known or probable exposure to the dog were eventually identified and given antirabies prophylaxis. It was also discovered that only 20% of the dogs and cats in the area had up to date vaccination. As a result 2000 dogs were vaccinated and over 300 unclaimed cats and dogs destroyed. No persons or other animals were known to develop rabies as a result of this episode.

The costs generated by this single rabid dog were estimated at 92,650 dollars for human antirabies treatment, 4,190 dollars for animal vaccination and veterinary services and 8,950 dollars for health department and animal control programmes. The total cost was 105,790 dollars or over 1,500 dollars per person treated not including lost work time, patient travel times and the costs of 6 months quarantine imposed on animals exposed to the rabid dog.

(Taken from 'Morbidity and Mortality Weekly Report', November 6, 1981/ Vol.30/ No. 43).

Bulletin 2/81 contained a report on a case of human rabies acquired in Ruanda. This incorrectly stated that a course of human diploid cell rabies vaccine was begun only after the first signs of paralysis appeared, 20 days following the bite episode. A corrected version with further details is given below:

#### 3.4 Human Rabies Acquired in Ruanda by Dr. Minne-Ringoet

A 30-year old american in Ruanda was bitten on the left hand and right foot by a stray dog on 7th May 1981. A course of Merieux vaccine following the conventional scheme (days 0, 3, 7, 14, 30, 90) was begun the same day.

The first signs of paralysis appeared on the 27 May and he was flown to Brussels, Belgium where he arrived on the 2 June 1981. After some days, the patient entered a coma from which, after the 1 July 1981, he did not emerge. On the 6 July he had a cardiac arrest and died on the 8 July 1981.

Very high levels of rabies antibody were demonstrated. A sample of the cerebro-spinal fluid on the 18 June gave a value of 1:1,525 and in the blood serum on 29 June a value of 1:17,783 was obtained. Repeated cultures of blood, urine, bronchial secretions and cerebro-spinal fluid as well as serological examination excluded the possibility of any other viral, bacterial or parasitic disease.

In the pathological examination, the cerebrum gave a picture of acute encephalitic necrosis but no evidence of virus.



TABLE 1

EUR		EUROPE		4/81		RABIES CASES							1.10.81 - 31.12.81			
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	1	1	-	-	-	4	144	13	5	18	1	181		185
BEL	BELGIUM	-	2	28	1	4	-	35	51	2	3	-	-	56		91
BUL	BULGARIA	*						0						0		0
CZE	CZECHOSLOVAKIA	7	9	2	-	1	1	20	315	3	4	7	-	329		349
DEN	DENMARK	*						0						0		0
DDR	GERMAN DEM. REPUBLIC	20	43	17	1	29	-	110	410	3	13	19	2	447		557
DEU	FED. REP. OF GERMANY	19	43	181	8	50	2	303	896	13	67	90	7	1073		1376
FIN	FINLAND	*						0						0		0
FRA	FRANCE	16	34	175	9	62	1	297	508	1	-	3	18	530		827
GBR	UNITED KINGDOM	*						0						0		0
GRE	GREECE	*						0						0		0
HUN	HUNGARY	5	13	3	-	-	2	23	348	-	-	-	1	349		372
IRE	IRELAND	*						0						0		0
ITA	ITALY	-	-	2	-	-	-	2	65	9	1	2	-	77		79
LUX	LUXEMBOURG	-	-	12	-	1	-	13	14	-	-	-	-	14		27
NET	NETHERLANDS	*						0						0		0
NOR	NORWAY	*						0						0		0
POL	POLAND	10	8	8	-	-	-	26	60	-	2	7	8	77		103
POR	PORTUGAL	*						0						0		0
RUM	RUMANIA	-	1	5	2	2	8	18	12	-	-	-	2	14		32
SPA	SPAIN	*						0						0		0
SWE	SWEDEN	*						0						0		0
SWI	SWITZERLAND + LIECHT	-	26	42	2	9	2	81	217	6	15	8	1	247		328
TUR	TURKEY	306	27	166	5	19	14	537	1	-	-	-	-	1		538
YUG	YUGOSLAVIA	4	11	7	-	-	-	22	282	-	-	-	18	300		322
TOTAL		389	218	649	28	177	30	1491	3323	50	110	154	58	3695	0	5186
PER CENT		7.5	4.2	12.5	0.5	3.4	0.6	28.8	64.1	1.0	2.1	3.0	1.1	71.2	0.0	100.0

\* NO CASES.

TABLE 2

EUR		EUROPE		1981		RABIES CASES							1. 1.81 - 31.12.81			
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	6	6	-	-	-	18	647	56	16	41	1	761		779
BEL	BELGIUM	2	2	35	1	6	-	46	120	2	4	1	-	127		173
BUL	BULGARIA	*						0						0		0
CZE	CZECHOSLOVAKIA	25	32	4	-	4	1	66	988	9	19	15	3	1034		1100
DEN	DENMARK	-	-	1	-	-	-	1	2	-	-	-	-	2		3
DDR	GERMAN DEM. REPUBLIC	95	148	54	2	83	1	383	1375	10	51	79	7	1522	1	1906
DEU	FED. REP. OF GERMANY	77	181	380	30	149	3	820	3917	95	249	312	28	4601		5421
FIN	FINLAND	*						0						0		0
FRA	FRANCE	45	90	324	19	129	2	609	1677	12	-	5	38	1732		2341
GBR	UNITED KINGDOM	1)						0						0	1	1
GRE	GREECE	3	-	-	-	-	-	3						0		3
HUN	HUNGARY	23	41	8	-	-	2	74	923	1	-	2	2	928		1002
IRE	IRELAND	*						0						0		0
ITA	ITALY	-	2	2	-	-	-	4	320	23	13	6	1	363		367
LUX	LUXEMBOURG	-	1	23	1	2	-	27	56	-	3	-	-	59		86
NET	NETHERLANDS	*						0						0		0
NOR	NORWAY	2)						0	-	-	-	-	1	1		1
POL	POLAND	33	36	25	-	-	1	95	293	5	8	23	24	353		448
POR	PORTUGAL	*						0						0		0
RUM	RUMANIA	10	7	44	3	13	11	88	36	1	-	-	3	40		128
SPA	SPAIN	3)	1	-	-	-	-	1						0		1
SWE	SWEDEN	*						0						0		0
SWI	SWITZERLAND + LIECHT	7	85	89	7	41	2	231	1014	70	55	40	3	1182		1413
TUR	TURKEY	1422	130	547	15	82	42	2238	3	1	-	-	18	22		2260
YUG	YUGOSLAVIA	21	46	16	-	1	-	84	1891	6	-	-	135	2032		2116
TOTAL		1770	807	1558	78	510	65	4788	13262	291	418	524	264	14759	2	19549
PER CENT		9.1	4.1	8.0	0.4	2.6	0.3	24.5	67.8	1.5	2.1	2.7	1.4	75.5	0.0	100.0

\* NO CASES, 1) ACQUIRED IN INDIA, 2) ON ISLAND OF SVALBARD, 3) IN NORTH AFRICA.

TABLE 3 RABIES CASE RATES (% TOTAL) FOR INDIVIDUAL ANIMAL SPECIES AND FOR TOTAL CASES OF 10 EUROPEAN COUNTRIES RANKING HIGHEST IN 1981.

EUR		EUROPE												1981		1. 1.81 - 31.12.81	
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		1770	807	1558	78	510	65	4788	13262	291	418	524	264	14759	2	19549	
PER CENT INVOLVEMENT / COUNTRY																	
DEU	FED.REP. OF GERMANY	4.4	22.4	24.4	38.5	29.2	4.6	17.1	29.5	32.6	59.6	59.5	10.6	31.2		27.7	
FRA	FRANCE	2.5	11.2	20.8	24.4	25.3	3.1	12.7	12.6	4.1	-	1.0	14.4	11.7		12.0	
TUR	TURKEY	80.3	16.1	35.1	19.2	16.1	64.6	46.7	0.0	0.3	-	-	6.8	0.1		11.6	
YUG	YUGOSLAVIA	1.2	5.7	1.0	-	0.2	-	1.8	14.3	2.1	-	-	51.1	13.8		10.8	
DDR	GERMAN DEM. REPUBLIC	5.4	18.3	3.5	2.6	16.3	1.5	8.0	10.4	3.4	12.2	15.1	2.7	10.3	50.0	9.7	
SWI	SWITZERLAND + LIECHT	0.4	10.5	5.7	9.0	8.0	3.1	4.8	7.6	24.1	13.2	7.6	1.1	8.0		7.2	
CZE	CZECHOSLOVAKIA	1.4	4.0	0.3	-	0.8	1.5	1.4	7.4	3.1	4.5	2.9	1.1	7.0		5.6	
HUN	HUNGARY	1.3	5.1	0.5	-	-	3.1	1.5	7.0	0.3	-	0.4	0.8	6.3		5.1	
AUT	AUSTRIA	0.3	0.7	0.4	-	-	-	0.4	4.9	19.2	3.8	7.8	0.4	5.2		4.0	
POL	POLAND	1.9	4.5	1.6	-	-	1.5	2.0	2.2	1.7	1.9	4.4	9.1	2.4		2.3	
TOTALS FROM 10 COUNTRIES		1754	795	1453	73	489	54	4618	12728	265	398	517	259	14167	1	18786	
EQUAL % TOTAL		99.1	98.5	93.3	93.6	95.9	83.1	96.4	96.0	91.1	95.2	98.7	98.1	96.0	50.0	96.1	

TABLE 4

EUR		EUROPE		4/81		RABIES CASES 'OTHER ANIMAL SPECIES'										1.10.81 - 31.12.81	
LOCATION		OTHER DOMESTIC ANIMALS					OTHER WILD ANIMALS								UNSPEC	TOTAL	
CODE	NAME	DONKEY	MULE	PIG	OTH.DOM HERBIVO	DOMEST RABBIT	OTHER	RACoon DOG	WILD BOAR	HEDGE HOG	SHREW	SQUIRREL	MUSKRAT	HARE			OTHER
AUT	AUSTRIA	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
CZE	CZECHOSLOVAKIA	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
DDR	GERMAN DEM. REPUBLIC	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2
DEU	FED.REP. OF GERMANY	1	1	-	-	-	-	-	-	-	-	-	-	-	-	7	9
FRA	FRANCE	-	-	1	-	-	-	-	-	-	-	-	-	-	18	-	19
HUN	HUNGARY	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	3
POL	POLAND	-	-	-	-	-	-	6	-	-	-	2	-	-	-	-	8
RUM	RUMANIA	-	-	-	-	-	8	-	-	-	-	-	-	-	2	-	10
SWI	SWITZERLAND + LIECHT	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	3
TUR	TURKEY	13	-	-	1	-	-	-	-	-	-	-	-	-	-	-	14
YUG	YUGOSLAVIA	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	18
TOTAL		16	1	3	1	1	8	6	1	1	1	2	1	1	38	7	88
PER CENT		18.2	1.1	3.4	1.1	1.1	9.1	6.8	1.1	1.1	1.1	2.3	1.1	1.1	43.2	8.0	100.0

TABLE 5

EUR		EUROPE		1981		RABIES CASES 'OTHER ANIMAL SPECIES'																		1. 1.81 - 31.12.81				
COUNTRY	OTHER DOMESTIC ANIMALS							OTHER WILD ANIMALS															UNSPECIFIED	TOTAL				
	OTH. DOM. CARNIVOR	DONKEY	MULE	PIG	OTH. DOM. HERBIVOR	DOMESTIC RABBIT	OTHERS	ARCT. FOX	WOLF	RACCOON DOG	WILD CAT	RACCOON	WILD BOAR	MOUFLON	IBEX	CHAMOIS	OTHER UNGULATE	HEDGEHOG	SHREW	SQUIRREL	HOUSE MOUSE	MUSKRAT			OTH. SMALL RODENTS	HARE	OTHERS	
AUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
CZE	-	-	-	1	-	-	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
DDR	1	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	1	-	1	-	-	-	1	-	-	-	8
DEU	-	1	1	-	-	1	-	-	-	-	-	1	2	1	1	-	2	-	-	-	-	-	1	-	-	20	31	
FRA	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-	40	
HUN	-	1	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	4	
ITA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	
NOR	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
POL	1	-	-	-	-	-	-	-	1	16	-	-	-	-	-	-	-	-	-	4	-	2	-	1	-	-	25	
RUM	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	14	
SWI	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	5	
TUR	-	40	1	-	1	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	60	
YUG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135	-	135	
TOT	2	43	2	4	1	2	11	2	9	16	2	1	5	3	1	3	2	1	1	5	10	3	1	3	176	20	329	
%	0.6	13.1	0.6	1.2	0.3	0.6	3.3	0.6	2.7	4.9	0.6	0.3	1.5	0.9	0.3	0.9	0.6	0.3	0.3	1.5	3.0	0.9	0.3	0.9	53.5	6.1	100.	

AUT

A U S T R I A

R A B I E S   C A S E S

1.10.81 - 31.12.81

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		*
B3	JENNERSDORF							0	1	-	-	-	-	1		1
B5	NEUSIEDL AM SEE							0	1	-	-	-	-	1		1
B6	OBERPULLENDORF							0	4	-	-	-	-	4		4
B7	OBERWART							0	4	-	-	-	-	4		4
K1	HERMAGOR							0	-	1	-	-	-	1		1
K4	SPITTAL/DRAU	1	-	1	-	-	-	2	2	1	-	1	-	4		6
K6	VOELKERMARKT							0	4	-	-	-	-	4		4
N10	LILIENFELD							0	2	-	-	-	-	2		2
N14	NEUNKIRCHEN							0	7	-	-	-	-	7		7
N16	SCHEIBBS							0	5	2	-	-	-	7		7
O1	BRAUNAU							0	1	-	-	-	-	1		1
O12	STEYR-LAND							0	1	-	-	-	-	1		1
ST1	BRUCK/MUR							0	8	4	1	3	-	16		16
ST2	DEUTSCHLANDSBERG							0	1	-	-	-	-	1		1
ST5	GRAZ-LAND							0	8	-	-	1	-	9		9
ST7	JUDENBURG							0	10	-	-	1	-	11		11
ST8	KNITTELFELD							0	9	-	-	-	-	9		9
ST9	LEIBNITZ							0	5	1	-	-	1	7		7
ST10	LEOBEN							0	1	-	-	1	-	2		2
ST11	LIEZEN	-	1	-	-	-	-	1	1	-	-	-	-	1		2
ST12	MUERZZUSCHLAG							0	21	-	1	4	-	26		26
ST15	VOITSBERG	1	-	-	-	-	-	1	34	3	2	5	-	44		45
ST16	WEIZ							0	4	-	-	1	-	5		5
T1	IMST							0	1	-	1	-	-	2		2
T2	INNSBRUCK-LAND							0	3	-	-	-	-	3		3
T4	KUFSTEIN							0	4	-	-	-	-	4		4
T6	LIENZ							0	1	-	-	1	-	2		2
T7	REUTTE							0	1	-	-	-	-	1		1
V2	BREGENZ							0	-	1	-	-	-	1		1
TOTAL		2	1	1	0	0	0	4	144	13	5	18	1	181	0	185
PER CENT		1.1	0.5	0.5	0.0	0.0	0.0	2.2	77.8	7.0	2.7	9.7	0.5	97.8	0.0	100.0

## RABIES CASES

1.10.81 - 31.12.81

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
<b>BEL</b> BELGIUM																
LG	LIEGE	-	1	21	-	2	-	24	37	2	2	-	-	41		65
LX	LUXEMBOURG	-	1	7	1	2	-	11	14	-	1	-	-	15		26
TOTAL		0	2	28	1	4	0	35	51	2	3	0	0	56	0	91
PER CENT		0.0	2.2	30.8	1.1	4.4	0.0	38.5	56.0	2.2	3.3	0.0	0.0	61.5	0.0	100.0
<b>LUX</b> LUXEMBOURG																
0206	KEHLEN							0	1	-	-	-	-	1		1
0404	NIEDERANVEN							0	1	-	-	-	-	1		1
0405	SANDWEILER							0	1	-	-	-	-	1		1
0509	MERSCH	-	-	1	-	-	-	1	1	-	-	-	-	1		2
0510	NOMMERN							0	1	-	-	-	-	1		1
0601	ASSELBORN							0	1	-	-	-	-	1		1
0603	CLERVAUX							0	1	-	-	-	-	1		1
0605	HACHIVILLE	-	-	1	-	-	-	1						0		1
0705	ERMSDORF	-	-	1	-	-	-	1						0		1
0710	MEDERNACH	-	-	-	-	1	-	1						0		1
0712	REISDORF	-	-	1	-	-	-	1						0		1
1102	BECH	-	-	3	-	-	-	3	1	-	-	-	-	1		4
1104	CONSDORF	-	-	5	-	-	-	5	1	-	-	-	-	1		6
1105	ECHTERNACH							0	1	-	-	-	-	1		1
1106	MOMPACH							0	1	-	-	-	-	1		1
1108	WALDBILLIG							0	2	-	-	-	-	2		2
1202	BIWER							0	1	-	-	-	-	1		1
TOTAL		0	0	12	0	1	0	13	14	0	0	0	0	14	0	27
PER CENT		0.0	0.0	44.4	0.0	3.7	0.0	48.1	51.9	0.0	0.0	0.0	0.0	51.9	0.0	100.0

CZE

C Z E C H O S L O V A K I A

R A B I E S C A S E S

1.10.81 - 31.12.81

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		
00 DISTRICT OF PRAGUE							0						0		0
01 CENTRAL BOHEMIA	-	3	-	-	-	-	3	32	-	1	-	-	33		36
02 SOUTH BOHEMIA							0	14	-	-	-	-	14		14
03 WEST BOHEMIA	-	1	-	-	-	-	1	96	-	-	-	-	96		97
04 NORTH BOHEMIA	3	3	-	-	-	-	6	56	1	-	1	-	58		64
05 EAST BOHEMIA							0	13	-	-	-	-	13		13
06 SOUTH MORAVIA							0	33	-	1	4	-	38		38
07 NORTH MORAVIA	1	1	2	-	1	1	6	49	1	1	2	-	53		59
0 CSR	4	8	2	-	1	1	16	293	2	3	7	-	305		321
10 DISTRICT OF BRATISLAV							0						0		0
11 WEST SLOVAKIA	1	1	-	-	-	-	2	5	-	-	-	-	5		7
12 CENTRAL SLOVAKIA	2	-	-	-	-	-	2	12	1	-	-	-	13		15
13 EAST SLOVAKIA							0	5	-	1	-	-	6		6
1 SSR	3	1	-	-	-	-	4	22	1	1	-	-	24		28
TOTAL	7	9	2	0	1	1	20	315	3	4	7	0	329	0	349
PER CENT	2.0	2.6	0.6	0.0	0.3	0.3	5.7	90.3	0.9	1.1	2.0	0.0	94.3	0.0	100.0



DDR

GERMAN DEMOCRATIC REPUBLIC

R A B I E S C A S E S

1.10.81 - 31.12.81

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
I	ROSTOCK	1	3	2	-	1	-	7	21	-	-	-	-	21		28
II	SCHWERIN	3	3	3	1	-	-	10	35	-	-	-	-	35		45
III	NEUBRANDENBURG	1	2	-	-	-	-	3	33	1	1	-	-	35		38
IV	POTSDAM	3	3	-	-	-	-	6	35	-	2	5	1	43		49
V	FRANKFURT/ODER	3	5	-	-	-	-	8	55	1	3	2	-	61		69
VI	COTTBUS	1	2	1	-	-	-	4	16	-	1	-	-	17		21
VII	MAGDEBURG	2	4	2	-	-	-	8	44	1	1	-	1	47		55
VIII	HALLE	-	2	1	-	1	-	4	13	-	-	-	-	13		17
IX	ERFURT	1	1	4	-	-	-	6	44	-	2	3	-	49		55
X	GERA	1	1	-	-	2	-	4	23	-	-	-	-	23		27
XI	SUHL	2	1	2	-	1	-	6	28	-	1	1	-	30		36
XII	DRESDEN	-	4	-	-	10	-	14	16	-	-	1	-	17		31
XIII	LEIPZIG	1	2	-	-	-	-	3	9	-	-	2	-	11		14
XIV	KARL-MARX-STADT	1	10	2	-	14	-	27	38	-	2	5	-	45		72
XV	HAUPTSTADT BERLIN							0						0		0
TOTAL		20	43	17	1	29	0	110	410	3	13	19	2	447	0	557
PER CENT		3.6	7.7	3.1	0.2	5.2	0.0	19.7	73.6	0.5	2.3	3.4	0.4	80.3	0.0	100.0

DEU

FEDERAL REPUBLIC OF GERMANY

RABIES CASES

1.10.81 - 31.12.81

LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS		
010	SCHLESWIG-HOLSTEIN	-	-	-	1	-	-	1	5	-	1	-	-	6	7
020	HAMBURG	-	-	-	-	-	-	0	-	-	-	-	-	0	0
031	BRAUNSCHWEIG	1	1	2	1	2	-	7	13	1	-	1	-	15	22
032	HANNOVER	-	-	1	-	-	-	1	9	-	1	4	-	14	15
033	LUENEBURG	-	-	3	-	-	-	3	30	-	1	1	2	34	37
034	WESER-EMS	-	-	-	-	-	-	0	5	-	-	-	-	5	5
040	BREMEN	-	-	-	-	-	-	0	-	-	-	-	-	0	0
051	DUESSELDORF	-	-	-	-	-	-	0	-	-	-	-	-	0	0
053	KOELN	1	-	3	-	2	-	6	15	-	-	-	-	15	21
055	MUENSTER	-	-	-	-	-	-	0	-	-	-	-	-	0	0
057	DETMOLD	-	-	3	2	3	-	8	17	-	3	5	5	30	38
059	ARNSBERG	1	1	2	-	-	-	4	19	-	-	4	-	23	27
061	DARMSTADT	2	1	13	-	2	-	18	60	-	4	10	-	74	92
062	KASSEL	2	4	17	1	7	-	31	67	1	6	14	-	88	119
071	KOBLENZ	1	5	11	-	6	-	23	47	1	1	3	-	52	75
072	TRIER	4	6	51	2	8	1	72	54	-	2	3	-	59	131
073	RHEINHESSEN-PFALZ	1	5	7	-	2	-	15	21	-	-	3	-	24	39
081	STUTTGART	-	1	1	1	-	-	3	30	-	-	1	-	31	34
082	KARLSRUHE	-	2	-	-	-	-	2	50	3	1	9	-	63	65
083	FREIBURG	-	5	3	-	-	-	8	87	1	9	11	-	108	116
084	TUEBINGEN	2	4	10	-	5	-	21	111	4	11	9	-	135	156
091	OBERBAYERN	2	-	26	-	11	-	39	115	1	10	6	-	132	171
092	NIEDERBAYERN	-	-	-	-	-	-	0	2	-	-	1	-	3	3
093	OBERPFALZ	-	1	-	-	-	1	2	23	-	5	2	-	30	32
094	OBERFRANKEN	2	1	-	-	2	-	5	25	-	-	1	-	26	31
095	MITTELFRANKEN	-	1	-	-	-	-	1	7	-	1	-	-	8	9
096	UNTERFRANKEN	-	2	1	-	-	-	3	23	1	1	-	-	25	28
097	SCHWABEN	-	2	26	-	-	-	28	58	-	10	2	-	70	98
100	SAARLAND	-	1	1	-	-	-	2	3	-	-	-	-	3	5
110	BERLIN (WEST)	-	-	-	-	-	-	0	-	-	-	-	-	0	0
TOTAL		19	43	181	8	50	2	303	896	13	67	90	7	1073	1376
PER CENT		1.4	3.1	13.2	0.6	3.6	0.1	22.0	65.1	0.9	4.9	6.5	0.5	78.0	100.0

FRA FRANCE

## RABIES CASES

1.10.81 - 31.12.81

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	-	-	-	-	-	-	0	1	-	-	-	-	1	-	1
02 AISNE	-	1	-	-	1	-	2	36	-	-	-	-	36	-	38
08 ARDENNES	-	1	4	-	-	-	5	3	-	-	-	-	3	-	8
10 AUBE	-	1	-	-	-	-	1	9	-	-	-	1	10	-	11
21 COTE D'OR	1	2	10	-	8	-	21	55	-	-	-	1	56	-	77
25 DOUBS	2	6	7	-	7	-	22	116	-	-	-	1	117	-	139
38 ISERE	-	-	-	-	-	-	0	1	-	-	-	-	1	-	1
39 JURA	-	-	2	-	-	-	2	4	-	-	-	-	4	-	6
51 MARNE	-	-	2	1	-	-	3	18	-	-	-	-	18	-	21
52 MARNE (HAUTE)	1	1	3	-	3	1	9	10	-	-	-	-	10	-	19
54 MEURTHE-ET-MOSELLE	-	4	39	3	11	-	57	78	1	-	-	1	80	-	137
55 MEUSE	3	6	58	2	18	-	87	43	-	-	2	3	48	-	135
57 MOSELLE	3	3	46	2	8	-	62	19	-	-	1	-	20	-	82
60 OISE	-	2	-	-	-	-	2	-	-	-	-	-	0	-	2
67 RHIN (BAS)	-	-	1	-	1	-	2	4	-	-	-	-	4	-	6
68 RHIN (HAUT)	-	1	-	1	-	-	2	4	-	-	-	-	4	-	6
70 SAONE (HAUTE)	1	-	1	-	1	-	3	24	-	-	-	2	26	-	29
71 SAONE-ET-LOIRE	-	-	-	-	-	-	0	4	-	-	-	-	4	-	4
73 SAVOIE	-	-	-	-	-	-	0	21	-	-	-	-	21	-	21
74 SAVOIE (HAUTE)	1	4	-	-	-	-	5	16	-	-	-	-	16	-	21
88 VOSGES	4	2	2	-	4	-	12	36	-	-	-	7	43	-	55
89 YONNE	-	-	-	-	-	-	0	5	-	-	-	1	6	-	6
90 TERR. DE BELFORT	-	-	-	-	-	-	0	1	-	-	-	1	2	-	2
TOTAL	16	34	175	9	62	1	297	508	1	0	3	18	530	0	827
PER CENT	1.9	4.1	21.2	1.1	7.5	0.1	35.9	61.4	0.1	0.0	0.4	2.2	64.1	0.0	100.0

HUN

HUNGARY

RABIES CASES

1.10.81 - 31.12.81

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	-	-	-	-	-	-	0	2	-	-	-	-	2	-	2
02 BARANYA	-	-	-	-	-	1	1	20	-	-	-	-	20	-	21
03 BACS-KISKUN	-	3	1	-	-	-	4	22	-	-	-	-	22	-	26
04 BEKES	-	-	-	-	-	-	0	10	-	-	-	-	10	-	10
05 BORSOD-ABAU-ZEMPLEN	-	1	-	-	-	-	1	18	-	-	-	1	19	-	20
06 CSONGRAD	-	2	-	-	-	1	3	6	-	-	-	-	6	-	9
07 FEJER	1	-	-	-	-	-	1	21	-	-	-	-	21	-	22
08 GYODER-SOPRON	-	-	-	-	-	-	0	8	-	-	-	-	8	-	8
09 HAJDU-BIHAR	-	2	-	-	-	-	2	27	-	-	-	-	27	-	29
10 HEVES	-	-	-	-	-	-	0	8	-	-	-	-	8	-	8
11 KOMAROM	1	-	-	-	-	-	1	5	-	-	-	-	5	-	6
12 NOGRAD	-	-	-	-	-	-	0	6	-	-	-	-	6	-	6
13 PEST	-	1	1	-	-	-	2	27	-	-	-	-	27	-	29
14 SOMOGY	-	-	-	-	-	-	0	24	-	-	-	-	24	-	24
15 SZABOLCS-SZATMAR	1	1	1	-	-	-	3	16	-	-	-	-	16	-	19
16 SZOLNOK	2	1	-	-	-	-	3	9	-	-	-	-	9	-	12
17 TOLNA	-	1	-	-	-	-	1	18	-	-	-	-	18	-	19
18 VAS	-	-	-	-	-	-	0	36	-	-	-	-	36	-	36
19 VESZPREM	-	1	-	-	-	-	1	42	-	-	-	-	42	-	43
20 ZALA	-	-	-	-	-	-	0	23	-	-	-	-	23	-	23
TOTAL	5	13	3	0	0	2	23	348	0	0	0	1	349	0	372
PER CENT	1.3	3.5	0.8	0.0	0.0	0.5	6.2	93.5	0.0	0.0	0.0	0.3	93.8	0.0	100.0

ITA

ITALY

RABIES CASES

1.10.81 - 31.12.81

LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL	
		DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS			TOTAL
23030	LIVIGNO							0	2	-	-	-	-	2		2
23030	SERNIO							0	1	-	-	-	-	1		1
23030	VALDISOTTO							0	2	-	-	-	-	2		2
23030	VALFURVA							0	5	-	-	-	-	5		5
23035	SONDALO							0	2	-	-	-	-	2		2
23037	TIRANO							0	-	1	-	-	-	1		1
23038	VALDIDENTRO							0	2	-	-	-	-	2		2
25040	BERZO DEMO							0	2	-	-	-	-	2		2
25040	CORTENO GOLGI							0	3	-	-	-	-	3		3
25040	MALONNO							0	1	-	-	-	-	1		1
25048	EDOLO							0	4	2	-	-	-	6		6
25050	SONICO							0	1	-	-	-	-	1		1
25050	VIONE							0	1	1	-	-	-	2		2
32040	VIGO DI CADORE							0	5	1	-	-	-	6		6
32041	AURONZO DI CADORE							0	1	-	-	-	-	1		1
33028	TOLMEZZO							0	1	-	-	-	-	1		1
33040	DRENCHIA							0	2	-	-	-	-	2		2
33040	GRIMACCO							0	3	3	-	-	-	6		6
33040	SAN LEONARDO DEL F	-	-	2	-	-	-	2	3	-	-	-	-	3		5
33040	SAVOGNA							0	3	-	-	-	-	3		3
33040	STREGNA							0	3	-	-	1	-	4		4
33040	TAIPANA							0	1	-	-	-	-	1		1
33043	CIVIDALE DEL FRIUL							0	2	-	-	-	-	2		2
33046	PULFERO							0	1	-	-	-	-	1		1
33049	SAN PIETRO AL NATI							0	6	-	-	-	-	6		6
34100	TRIESTE							0	1	-	-	-	-	1		1
39020	SLUDERNO							0	1	-	-	-	-	1		1
39020	TUBRE							0	1	-	-	-	-	1		1
39023	LASA							0	1	-	1	-	-	2		2
39024	MALLES VENOSTA							0	2	-	-	1	-	3		3
39026	PRATO ALLO STELVIO							0	1	1	-	-	-	2		2
39028	SILANDRO							0	1	-	-	-	-	1		1
TOTAL		0	0	2	0	0	0	2	65	9	1	2	0	77	0	79
PER CENT		0.0	0.0	2.5	0.0	0.0	0.0	2.5	82.3	11.4	1.3	2.5	0.0	97.5	0.0	100.0

POL

POLAND

RABIES CASES

1.10.81 - 31.12.81

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	WARSZAWA	1	-	-	-	-	-	1	2	-	-	-	-	2		3
05	BIALYSTOK							0	1	-	-	-	-	1		1
09	BYDGOSZCZ							0	-	-	-	-	2	2		2
13	CIECHANOW							0	-	-	-	-	1	1		1
17	ELBLAG	-	1	3	-	-	-	4	4	-	-	-	1	5		9
21	GORZOW							0	3	-	-	-	-	3		3
23	JELENIA GORA							0	6	-	-	-	-	6		6
25	KALISZ							0	2	-	-	-	-	2		2
27	KATOWICE	-	1	-	-	-	-	1	1	-	-	-	-	1		2
29	KIELCE	-	1	-	-	-	-	1						0		1
33	KOSZALIN							0	2	-	-	4	-	6		6
39	LEGNICA	-	1	-	-	-	-	1	2	-	-	-	-	2		3
41	LESZNO	-	1	-	-	-	-	1						0		1
51	OLSZTYN	2	-	1	-	-	-	3	4	-	1	-	1	6		9
53	OPOLE							0	3	-	-	-	-	3		3
57	PILA							0	2	-	-	-	-	2		2
59	PIOTRKOW TRYB							0	1	-	-	-	-	1		1
63	POZNAN							0	-	-	1	-	-	1		1
65	PRZEMYSL							0	1	-	-	-	-	1		1
77	SLUPSK	-	1	-	-	-	-	1	-	-	-	1	-	1		2
79	SUWALKI	2	-	3	-	-	-	5	1	-	-	1	1	3		8
81	SZCZECIN	5	-	-	-	-	-	5	12	-	-	-	2	14		19
83	TARNOBRZEG	-	1	-	-	-	-	1						0		1
87	TORUN	-	-	1	-	-	-	1	2	-	-	-	-	2		3
89	WALBRZYCH	-	1	-	-	-	-	1	7	-	-	-	-	7		8
93	WROCLAW							0	1	-	-	-	-	1		1
95	ZAMOSC							0	1	-	-	-	-	1		1
97	ZIELONA GORA							0	2	-	-	1	-	3		3
TOTAL		10	8	8	0	0	0	26	60	0	2	7	8	77	0	103
PER CENT		9.7	7.8	7.8	0.0	0.0	0.0	25.2	58.3	0.0	1.9	6.8	7.8	74.8	0.0	100.0

RUM		RUMANIA											RABIES CASES				1. 7.81 - 30. 9.81	
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	3	-	-	-	-	3		4		
02	ARAD	1	-	1	-	-	-	2						0		2		
04	BACAU	1	-	2	-	-	-	3	6	-	-	-	-	6		9		
07	BOTOSANI	-	-	2	-	-	-	2						0		2		
08	BRASOV	-	-	24	-	-	-	24						0		24		
13	CLUJ	-	1	-	-	-	-	1	1	-	-	-	-	1		2		
19	GIURGIU	-	-	1	-	-	-	1						0		1		
21	HARGHITA	-	-	1	-	-	-	1						0		1		
24	IASI	-	1	-	-	-	-	1						0		1		
31	SATU-MARE	-	-	-	-	-	-	0	1	-	-	-	-	1		1		
32	SALAJ	1	-	-	-	-	-	1						0		1		
33	SIBIU	-	1	-	-	-	-	1						0		1		
36	TIMIS	-	-	-	-	-	-	0	1	-	-	-	-	1		1		
TOTAL		3	3	32	0	0	0	38	12	0	0	0	0	12	0	50		
PER CENT		6.0	6.0	64.0	0.0	0.0	0.0	76.0	24.0	0.0	0.0	0.0	0.0	24.0	0.0	100.0		

RUM		RUMANIA											RABIES CASES				1.10.81 - 31.12.81	
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		
04	BACAU	-	-	1	-	1	-	2	2	-	-	-	-	2		4		
11	CARAS-SEVERIN	-	-	-	-	-	-	0	-	-	-	-	1	1		1		
12	CALARASI	-	-	-	-	-	8	8						0		8		
13	CLUJ	-	-	-	-	-	-	0	1	-	-	-	-	1		1		
19	GIURGIU	-	-	1	1	1	-	3	1	-	-	-	-	1		4		
21	HARGHITA	-	-	1	-	-	-	1						0		1		
23	IALOMITA	-	-	1	-	-	-	1	1	-	-	-	1	2		3		
24	IASI	-	1	1	-	-	-	2						0		2		
31	SATU-MARE	-	-	-	-	-	-	0	2	-	-	-	-	2		2		
32	SALAJ	-	-	-	-	-	-	0	3	-	-	-	-	3		3		
35	TELEORMAN	-	-	-	1	-	-	1	1	-	-	-	-	1		2		
TOTAL		0	1	5	2	2	8	18	12	0	0	0	2	14	0	32		
PER CENT		0.0	3.1	15.6	6.2	6.2	25.0	56.2	37.5	0.0	0.0	0.0	6.2	43.7	0.0	100.0		

TUR TURKEY

## RABIES CASES

1.10.81 - 31.12.81

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	1	1	1	-	-	-	3						0	3
003	AFYON	3	-	8	-	-	-	11						0	11
004	AGRI	1	-	-	-	-	-	1						0	1
005	AMASYA	6	1	7	-	-	-	14						0	14
006	ANKARA	24	1	12	-	-	1	38						0	38
007	ANTALYA	1	2	1	-	-	-	4						0	4
009	AYDIN	13	1	6	-	-	-	20						0	20
010	BALIKESIR	5	1	3	-	2	-	11						0	11
011	BILECIK	2	-	-	-	-	-	2						0	2
012	BINGOEL	1	-	-	-	-	-	1						0	1
014	BOLU	9	-	7	-	1	-	17						0	17
015	BURDUR	-	-	-	-	1	1	2						0	2
016	BURSA	23	2	6	-	3	-	34	1	-	-	-	-	1	35
017	CANAKKALE	3	1	-	-	1	-	5						0	5
018	CANKIRI	4	-	1	-	-	-	5						0	5
019	CORUM	6	1	9	-	1	1	18						0	18
020	DENIZLI	5	4	-	-	2	1	12						0	12
021	DIYARBAKIR	-	-	2	-	-	-	2						0	2
022	EDIRNE	5	-	3	-	-	1	9						0	9
023	ELAZIG	1	-	-	-	-	-	1						0	1
025	ERZURUM	1	1	-	-	-	-	2						0	2
026	ESKISEHIR	1	-	3	-	-	3	7						0	7
028	GIRESUN	8	1	6	-	2	-	17						0	17
033	ICEL	2	1	-	1	-	-	4						0	4
034	ISTANBUL	31	2	2	-	-	-	35						0	35
035	IZMIR	22	4	2	1	2	1	32						0	32
036	KARS	4	-	2	-	-	-	6						0	6



**TUR** 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
037 KASTAMONU	3	-	3	-	-	-	6						0		6
038 KAYSERI	3	-	5	1	-	1	10						0		10
039 KIRKLARELI	10	-	4	-	-	-	14						0		14
040 KIRSEHIR	5	-	-	-	-	-	5						0		5
041 KOCAELI	7	-	2	-	-	-	9						0		9
042 KONYA	8	-	3	-	-	1	12						0		12
043 KUETAHYA	1	-	2	-	-	1	4						0		4
045 MANISA	16	1	4	-	-	-	21						0		21
047 MARDIN	1	-	-	-	-	-	1						0		1
048 MUGLA	1	-	-	-	-	-	1						0		1
050 NEVSEHIR	-	-	2	-	-	-	2						0		2
052 ORDU	14	1	8	-	1	-	24						0		24
054 SAKARYA	11	-	6	-	1	-	18						0		18
055 SAMSUN	14	-	20	-	1	1	36						0		36
057 SINOP	5	-	6	1	1	1	14						0		14
058 SIVAS	1	-	3	-	-	-	4						0		4
059 TEKIRDAG	9	1	1	-	-	-	11						0		11
060 TOKAT	4	-	4	-	-	-	8						0		8
061 TRABZON	3	-	1	-	-	-	4						0		4
062 TUNCELI	-	-	4	-	-	-	4						0		4
063 URFA	1	-	-	1	-	-	2						0		2
066 YOZGAT	3	-	-	-	-	-	3						0		3
067 ZONGULDAK	4	-	7	-	-	-	11						0		11
TOTAL	306	27	166	5	19	14	537	1	0	0	0	0	1	0	538
PER CENT	56.9	5.0	30.9	0.9	3.5	2.6	99.8	0.2	0.0	0.0	0.0	0.0	0.2	0.0	100.0

YUG

YUGOSLAVIA

RABIES CASES

1.10.81 - 31.12.81

LOCATION		DOMESTIC ANIMALS						WILD ANIMALS						HUMAN CASES	TOTAL
CODE	NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS		
III/	1 ZAGREB							0	1	-	-	-	-	1	1
III/	3 ZAPRESIC							0	3	-	-	-	-	3	3
III/	17 DUGO SELO							0	3	-	-	-	-	3	3
III/	18 VRBOVEC							0	4	-	-	-	-	4	4
III/	20 DONJA STUBICA							0	2	-	-	-	-	2	2
III/	23 PREGRADA							0	3	-	-	-	-	3	3
III/	24 ZLATAR BISTRICA							0	4	-	-	-	-	4	4
III/	25 IVANEC							0	1	-	-	-	-	1	1
III/	26 VARAZDIN							0	1	-	-	-	-	1	1
III/	28 NOVI MAROF							0	1	-	-	-	-	1	1
III/	32 DURDEVAC							0	5	-	-	-	-	5	5
III/	34 CAZMA							0	1	-	-	-	-	1	1
III/	36 GARESNICA							0	3	-	-	-	-	3	3
III/	38 PAKRAC							0	2	-	-	-	-	2	2
III/	40 GRUBISNO POLJE							0	1	-	-	-	-	1	1
III/	41 VIROVITICA							0	3	-	-	-	-	3	3
III/	42 PODR.SLATINA							0	1	-	-	-	-	1	1
III/	51 OSIJEK							0	1	-	-	-	-	1	1
III/	52 BELI MANASTIR							0	2	-	-	-	-	2	2
V /	1 LJUBLJANA							0	8	-	-	-	1	9	9
V /	2 VRHNIKA	-	1	-	-	-	-	1	5	-	-	-	2	7	8
V /	3 CERKNICA							0	3	-	-	-	-	3	3
V /	4 LOGATEC	-	-	3	-	-	-	3	8	-	-	-	2	10	13
V /	5 POSTOJNA	-	1	-	-	-	-	1	5	-	-	-	-	5	6
V /	7 SEZANA							0	1	-	-	-	-	1	1
V /	11 AJDOVSCINA							0	6	-	-	-	-	6	6
V /	12 NOVA GORICA	2	-	1	-	-	-	3	47	-	-	-	5	52	55
V /	13 IDRIJA	-	1	-	-	-	-	1	9	-	-	-	-	9	10
V /	14 TOLMIN	-	-	1	-	-	-	1	17	-	-	-	1	18	19
V /	17 SKOFJA LOKA							0	4	-	-	-	-	4	4
V /	18 TRZIC							0	1	-	-	-	-	1	1
V /	19 KRANJ							0	6	-	-	-	-	6	6
V /	20 KAMNIK							0	1	-	-	-	2	3	3
V /	28 KRSKO							0	6	-	-	-	-	6	6
V /	30 SEVNICA							0	3	-	-	-	-	3	3
V /	35 ZALEC							0	1	-	-	-	-	1	1

YUG

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
V / 36	TRBOVLJE	-	1	-	-	-	-	1	-	-	-	-	-	0	-	1
V / 37	VELENJE	-	-	-	-	-	-	0	-	-	-	1	-	1	-	1
V / 38	SLOVENJGRADEC	-	-	-	-	-	-	0	-	-	-	1	-	1	-	1
V / 41	RADLJE OB DRAVI	-	-	-	-	-	-	0	1	-	-	-	2	3	-	3
V / 42	MARIBOR	-	-	-	-	-	-	0	10	-	-	-	1	11	-	11
V / 44	CELJE	-	3	-	-	-	-	3	3	-	-	-	-	3	-	6
V / 46	LASKO	-	-	-	-	-	-	0	13	-	-	-	-	13	-	13
V / 47	SENTJUR PRI CELJ	-	-	-	-	-	-	0	2	-	-	-	-	2	-	2
V / 48	SMARJE PRI JELSA	-	-	-	-	-	-	0	10	-	-	-	-	10	-	10
V / 49	SLOV.BISTRICA	-	-	-	-	-	-	0	2	-	-	-	-	2	-	2
V / 50	PTUJ	-	-	-	-	-	-	0	4	-	-	-	-	4	-	4
V / 55	MURSKA SOBOTA	-	-	-	-	-	-	0	12	-	-	-	-	12	-	12
V / 56	LENDAVA	-	-	-	-	-	-	0	4	-	-	-	-	4	-	4
VII/ 3	TITEL	-	-	-	-	-	-	0	1	-	-	-	-	1	-	1
VII/ 6	VRBAS	-	1	-	-	-	-	1	1	-	-	-	-	1	-	2
VII/ 16	ZRENJANIN	-	1	-	-	-	-	1	4	-	-	-	-	4	-	5
VII/ 19	PANCEVO	-	-	-	-	-	-	0	1	-	-	-	-	1	-	1
VII/ 22	VRSAČ	1	-	1	-	-	-	2	5	-	-	-	-	5	-	7
VII/ 23	ALIBUNAR	-	-	-	-	-	-	0	1	-	-	-	-	1	-	1
VII/ 24	PLANDISTE	-	-	-	-	-	-	0	4	-	-	-	-	4	-	4
VII/ 25	SECANJ	-	-	-	-	-	-	0	2	-	-	-	-	2	-	2
VII/ 27	NOVA CRNJA	-	1	-	-	-	-	1	2	-	-	-	-	2	-	3
VII/ 28	KIKINDA	1	1	-	-	-	-	2	5	-	-	-	-	5	-	7
VII/ 29	NOVI BECEJ	-	-	-	-	-	-	0	1	-	-	-	-	1	-	1
VII/ 33	ČOKA	-	-	-	-	-	-	0	2	-	-	-	-	2	-	2
VII/ 35	BAC.TOPOLA	-	-	-	-	-	-	0	3	-	-	-	-	3	-	3
VII/ 37	KANJIZA	-	-	-	-	-	-	0	1	-	-	-	-	1	-	1
VII/ 39	SUBOTICA	-	-	-	-	-	-	0	6	-	-	-	-	6	-	6
VII/ 40	SOMBOR	-	-	-	-	-	-	0	5	-	-	-	-	5	-	5
VII/ 41	KULA	-	-	1	-	-	-	1	3	-	-	-	-	3	-	4
VII/ 44	APATIN	-	-	-	-	-	-	0	1	-	-	-	-	1	-	1
TOTAL		4	11	7	0	0	0	22	282	0	0	0	18	300	0	322
PER CENT		1.2	3.4	2.2	0.0	0.0	0.0	6.8	87.6	0.0	0.0	0.0	5.6	93.2	0.0	100.0

SWI

SWITZERLAND AND LIECHTENSTEIN

R A B I E S C A S E S

1.10.81 - 31.12.81

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	AARGAU	-	-	1	-	-	-	1	2	-	1	-	-	3	4	
05	BASEL-LAND	-	1	-	-	-	-	1	4	-	1	-	-	5	6	
06	BERN	-	1	-	-	-	-	1	19	1	1	-	-	21	22	
07	FREIBURG	-	9	13	1	3	1	27	30	-	4	-	-	34	61	
08	GENEVE	-	-	-	-	-	-	0	3	-	-	-	-	3	3	
09	GLARUS	-	-	-	-	-	-	0	3	-	-	-	-	3	3	
10	GRAUBUENDEN	-	2	3	-	-	-	5	17	1	-	2	-	20	25	
12	NEUCHATEL	-	-	2	-	-	-	2	1	-	-	-	-	1	3	
15	SCHAFFHAUSEN	-	1	-	-	-	-	1	-	-	-	-	-	0	1	
16	SCHWYZ	-	2	2	-	-	-	4	12	1	-	-	-	13	17	
17	SOLOTHURN	-	1	-	-	-	-	1	4	-	1	-	-	5	6	
18	ST.GALLEN	-	-	5	-	-	-	5	6	-	-	1	-	7	12	
20	THURGAU	-	2	1	-	-	-	3	12	-	1	-	-	13	16	
22	VAUD	-	7	12	1	5	-	25	94	2	5	3	-	104	129	
24	ZUG	-	-	-	-	-	-	0	1	-	-	-	-	1	1	
25	ZUERICH	-	-	2	-	-	-	2	8	1	1	2	1	13	15	
26	JURA	-	-	1	-	1	1	3	1	-	-	-	-	1	4	
TOTAL		0	26	42	2	9	2	81	217	6	15	8	1	247	0	328
PER CENT		0.0	7.9	12.8	0.6	2.7	0.6	24.7	66.2	1.8	4.6	2.4	0.3	75.3	0.0	100.0

USR

UNION OF SOVIET SOCIALIST REPUBLICS  
(EUROPEAN PART)

R A B I E S C A S E S  
IN ANIMALS

1. 7.81 - 30. 9.81

LOCATION CODE NAME		D A T E S			T O T A L
		1. 7. - 31. 7.	1. 8. - 31. 8.	1. 9. - 30. 9.	
01	RSFSR	-	-	-	-
011	REGIONS OF THE NORTH AND THE NORTH-WEST	1	5	2	8
012	REGIONS OF THE CENTRE	3	1	1	5
013	REGIONS OF THE NORTH CAUCASUS	2	3	3	8
014	REGIONS OF THE POVOLJE AND THE URALS				
02	THE MOLDAVIAN SSR	1	1	-	2
03	THE UKRAINIAN SSR	9	13	14	36
04	THE BYELORUSSIAN SSR	1	7	2	10
05	THE LITHUANIAN SSR	-	3	2	5
06	THE LATVIAN SSR	1	2	1	4
07	THE ESTONIAN SSR	1	1	1	3
TOTAL		19	36	26	81

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  
 Dr. M i n n e - R i n g o e t  
 L'Inspecteur en Chef-Directeur  
 Ministère de la Santé Publique  
 et de la Famille  
 Quartier Vésale  
 B-1010 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. Č a p k a  
 Chief Veterinary Officer  
 Dr. N e u m a n n  
 Federal Ministry of Agriculture  
 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  
 Ministerium für Gesundheitswesen  
 Hauptabteilung Internationale  
 Beziehungen / 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
- DEN DENMARK (cont'd)  
 Dr. J. M u e l l e r  
 State Veterinary Serum Lab.  
 Bülowvej 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. L. A n d r a l  
 Directeur  
 Dr. J. B l a n c o u  
 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. P. N. D r a g o n a s  
 General Director  
 Veterinary Service  
 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
- IRE IRELAND  
 Dr. P. J. O' C o n n o r  
 Deputy Director Veterinary Services  
 Dr. P. J. R o g a n  
 Veterinary Liaison Officer  
 Department of Agriculture  
 Agriculture House  
 Dublin 2/Ireland

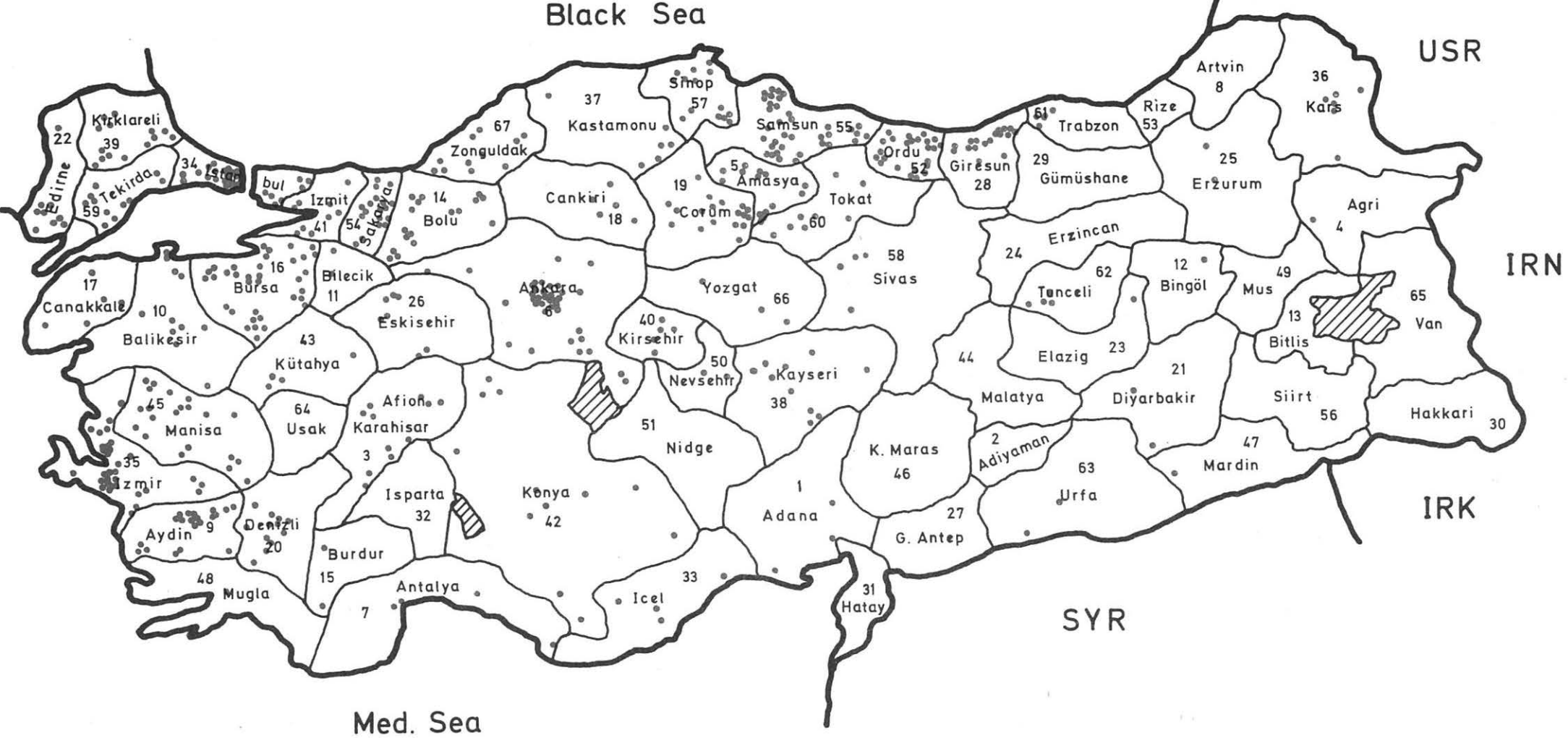
- ITA ITALY  
 Dr. A. M a n t o v a n i  
 Dr. S. P r o s p e r i  
 Istituto di Malatti Infettive  
 Universita degli Studi di Bologna  
 Via S. Giacomo 9/2  
 I-40126 Bologna /Italy
- LUX LUXEMBOURG  
 Dr. R. F r i s c h  
 Directuer de l'Inspect.Général Vet.  
 Ministère de l'Agriculture  
 89, Rue d'Anvers  
 B.P. 1403  
 Luxembourg
- NET NETHERLANDS  
 Dr. C.J. V e r m e u l e n  
 Staatsoezicht op de  
 Volksgezondheid  
 Koningin-Julianaplein 3  
 2595AA s'Gravenhage/Netherlands
- NOR NORWAY  
 Dr. Reidar V o l l a n  
 Director of Vet. Services  
 Dr. H.O. B a c h - G a n s m o  
 Deputy Director of Vet. Services  
 Det Kongelige Landbruksdepartment  
 Akersgt. 42 / Postboks 8007 Dep.  
 Oslo 1 /Norway
- POL POLAND  
 Dr. Jan K o l a c z  
 Head of Animal Health Division  
 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. Mário T e i x e i r a  
 Ministério da Agricultura e Pescas  
 Direccao-Geral dos Servicos Pec.  
 Servicos de Sanidade Veterinaria  
 Lissabon /Portugal
- RUM RUMANIA  
 Dr. Ion D i d a  
 Directeur de la Direction  
 Sanitaire Vétérinaire  
 Ministère de l'Agriculture  
 B-dul Republicii 24  
 Bucuresti /Rumania
- 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  
 Dr. F. S t e c k  
 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 Agricult.  
 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  
 Prof. 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. B u g a r s k i  
 Head, Veterinary Department  
 Federal Committee for Agriculture  
 Belgrad /Yugoslavia  
 Dr. Miloš 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 1981  
538 cases reported





Rabies Cases Europe  
4th Quarter 1981

5186 cases reported