RABIES BULLETIN EUROPE

Volume 16/No 4

Quarter 4

1992

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The Rabies Bulletin Europe has been compiled and edited by the

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Gratefully acknowledged is the financial support of the WHO Rabies CENTRE Tübingen by the

Bundesministerium für Gesundheit Bonn - Bad Godesberg

1. Introduction

This BULLETIN describes the reported rabies cases in Europe for the Fourth Quarter 1992, subsequently referred to as "This Quarter".

In SECTION 2 a summary of the rabies situation is given on the Fourth Quarter 1992 and the development of rabies in Europe for the year 1992.

SECTION 3 (3.1-3.35) reflects the situation for individual countries.

In the Miscellaneous SECTION under 4.1 information is given on human rabies

cases in Estland from 1947 to 1992. In an article under 4.2 the extension of the raccoon rabies epizootic in the United States in 1992 is described. 4.3 is a review of all rabies cases received at the WHO Collaborating Centre for Rabies Surveillance and Research, Tübingen, from the beginning of the data collection in 1977 up to date. In this connection tables of quarterly data have been produced, a graph with annual data, and tables on human and bat rabies cases.

The rabies case data are tabulated for the fourth quarter 1992 in SECTION 5.

SECTION 6 lists the official contributors to the BULLETIN.

The geographical distribution of rabies cases in Europe for the fourth quarter 1992 is shown on maps of Europe, the Russian Federation and Turkey in the ANNEX. One graph in the ANNEX refers to the text under 4.1.

2. Summary of Rabies in Europe

Fourth Quarter 1992

During "This Quarter", 3178 rabies cases were reported in Europe. Of these were 2342 cases in wild animals (73.4% of total) and 831 in domestic animals. Of a total of 22 cases in Bulgaria in 1992 none were considered in "This Quarter" as the date of occurrence was not reported. However, they were considered for the annual total in 1992.

Of the cases in wild animals 2023 were foxes, 2

wolves, 127 raccoon dogs, 32 badgers, 64 other mustelids, 69 roe deer, 3 red deer, 1 fallow deer, 1 moose, 10 wild boars, 2 hedgehogs, 2 bats, 1 squirrel, 3 house mice, 1 hare, 1 other wild animal. Of the 831 cases in domestic animals 193 were dogs (of which 53 were reported from Turkey, a country with dog-mediated rabies), 228 cats, 357 cattle, 7 horses, 44 small ruminants, 1 donkey, 1 pig.

There were 5 human rabies cases reported during

"This Quarter", 4 in the Russian Federation and 1 in Lithuania.

The above data are presented in TABLE 1/SECT-ION 5. TABLE 4/SECTION 5 lists other animal species less frequently involved in rabies and not mentioned in TABLE 1.

There were 2 bat rabies cases registered in Germany. They appear on the map of Europe in a different colour.

Compared to the previous quarter (2119 cases) an increase is noticed (by 1059 cases). That is expected as wildlife rabies is seasonal. Most of the countries recorded the increase. For the countries practicing oral vaccination of foxes against rabies the increase of the case incidence was less pronounced.

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

There were no cases reported during "This Quart-er" from the Netherlands and from Svalbard of Norway, but the last indigenously acquired case (in terrestrial animals or bats) was recorded less than two years ago.

Development and Trends in 1992

Summary:

Rabies case data summarizing the year 1992 can be found in TABLES 2, 3 and 5 of SECTION 5.

The number of rabies cases in 1992 total 11075. The four quarters compare as follows:

1st quarter - 3733 2nd quarter - 2022 3rd quarter - 2120 4th quarter - 3200

The figure for the total of rabies cases in Bulgaria is

included in the fourth quarter 1992 (see text under 3.4 of this BULLETIN). Two human cases in the first and third quarter 1992 have been supplemented in this issue.

The annual total in 1992 is the lowest figure recorded for one year since the start of the surveillance in 1977. Nevertheless, reporting was not always complete (see as well the summary article under 4.3 of this BULLETIN).

Wildlife or fox-mediated rabies:

The wildlife rabies epizootic of central Europe has the red fox as reservoir and this is also the animal that passes the infection frequently on to other animals (wild and domestic). TABLE 2 with annual figures shows that the fox participates with 66.1% of all rabies cases in Europe as animal No. 1, in spite of a large unknown figure. Approx. 10% of other rabid wild animals share the same habitat with the fox. The same can be said for the farm animals in summer (cattle participate with 8.3% of the total as animal No. 2).

After the year 1989 with a high rabies incidence in Europe (24,373 rabies cases), a reduction of cases was noticed in 1990 (21,044 cases) and 1991 (16,479 cases). Reasons are the effect of a diminished fox population by the fatal disease itself and on the other hand the efforts of many countries to eradicate rabies by oral vaccination. The reduction to 11,075 cases in 1992 is no

doubt to be connected to oral vaccination. And here especially the countries Austria, Czechoslovakia, Germany and France had substantial reductions of rabies cases compared to 1991.

There was one country with an substantial increase: Poland.

Urban- or dog-mediated rabies:

Unfortunately, Turkey is often counted among the other European countries. However, it is of a different rabies pattern altogether. In 1992 though it accounted only for 2.9% of the total rabies cases in Europe. Of all animal cases, 98.1% were in domestic animals, 1.9% in wild animals.

Turkey has continually diminishing annual rabies figures from 1981 with 2260 reported cases to 1992 with 320 cases.

Bat rabies:

There were 14 cases of bat rabies reported in 1992. 18 cases in the Netherlands, 3 cases in Germany and 1 case in Switzerland. Since 1987 (142 cases) diminishing annual figures are registered in Europe.

Human rabies:

There were 12 human cases reported in 1992. 9 cases occurred in the Russian Federation, two in Lithuania and one in France. The latter case was imported from Algeria.

3. Rabies in Individual Countries

3.1	Albania	ALB
	No data.	
3.2	Austria	AUT

by Helmut Schnabl

Of 6579 samples examined for rabies during "This Quarter", 126 cases (1.9%) were diagnosed rabid. There has been an increase of rabies cases compared to the previous quarter by 3.3%.

111 rabies cases occurred in wild animals. Of these were 98 foxes (77.8% of total), 2 badgers, 7 stone martens, 4 roe deer. Of 15 rabies cases in domestic animals were 10 cattle, 2 sheep, 1 dog and 2 cats.

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

Burgenland: 9 cases (7.1% of total) in the Bezirke Güssing, Jennersdorf, Neusiedl/See, Oberpullendorf, Oberwart.

<u>Niederösterreich:</u> 36 cases (28.6%) in the Bezirke Baden, Gmünd, Korneuburg, Melk, Mistelbach, Mödling, Neunkirchen, Scheibbs.

Oberösterreich: 6 cases in the Bezirke Freistadt and Perg.

<u>Salzburg:</u> 5 cases in the Bezirke Hallein, Salzburg/Umgebung, Tamsweg.

Steiermark: 1 case in the Bezirk Leibnitz.

<u>Tirol:</u> 40 cases (31.7%) in the Bezirke Mag.Innsbruck, Innsbruck-Land, Kufstein, Landeck, Schwaz.

<u>Vorarlberg:</u> 29 cases (23%) in the Bezirke Bludenz and Bregenz.

Summary 1992

The total of rabies cases in 1992 amounted to 1117, 1343 cases less than in 1991 (2460).

3.3	Belgium	BEL
	by L. Hallet	

During "This Quarter", 3 rabies cases were confirmed, 1 fox in October at Chiny (Suxy), 1 fox in December at Florenceville (Chassepierre) and 1 bovine in December at Reuland.

An autumn campaign to vaccinate foxes was carried out during "This Quarter". It covered an area of 8453 km². 124,400 vaccine baits were distributed by an aircraft flying at 100 m altitude.

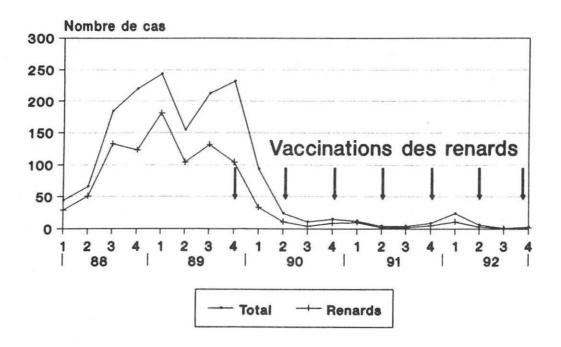
Summary 1992

The following two figures present a summary of rabies cases in 1992 and the development of rabies by quarters while practicing oral vaccination from 1988 to 1992.

FIGURE 1: Summary of rabies cases in Belgium in 1992

Provinces	Luxembourg	Namur	Liège	Total
Communes	19	1	1	1
Bovins	6	1	1	8
Equin	1	0	0	1
Ovins	8	0	0	8
Renards	17	0	0	17
Total	32	1	1	34

EVOLUTION TRIMESTRIELLE RAGE ANIMALE



Bulgaria	BUL
	Bulgaria

4th Quarter 1992

Number of animals affected by rabies and the places where the cases occurred could not be identified.

Summary 1992

A total of 22 rabies cases in animals were reported from Bulgaria. Of these 7 were foxes, 6 cats, 5 cattle, 1 sheep and 3 goats.

The cases occurred in the north west of the country in the following provinces: Vidin (2), Mihailovgrad (9), Vratza (6), Pleven (2), Sofia (2), Pernik (1).

There has been an increase from 6 cases (all fox

es) in 1991 to 22 cases in 1992.

3.5	Belarus	BYE
	No data.	

3.6	Croatia	CRO

by Mate Brstilo

During "This Quarter", a total of 343 brain samples of domestic and wild animals were examined for rabies, double than during the 3rd quarter 1992. Rabies was diagnosed in 82 cases (23.9%). Of these 82 cases, 73 were in foxes (89% of total) and 10 in domestic animals (11%). Of the

domestic animals 7 were cats and 2 sheep.

The rabies cases in foxes occurred in 31 different municipalities.

During "This Quarter", silvatic rabies was diagnosed in 9 new municipalities (Cakovec, Cazma, Daruvar, Dugo Selo, Dakovo, Ogulin, Osijek, Rijeka, Vrbovsko).

The following points were noteworthy during "This Quarter":

- there was no rabies case in the region of the peninsula Istra;
- rabies was registered in three municipalities -Rijeka, Sibenik and Split;
- the island municipalit-

ies are free from rabies:

rabies cases were more concentrated along the border with Slovenia.

Summary 1992

The total of rabies cases in 1992 amounted to 193.

3.7 Czechoslovakia CZE

by Oldrich Matouch

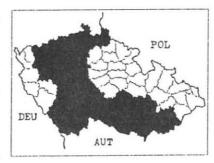
During "This Quarter", 232 rabies cases were diagnosed in Czechoslovakia. Of these, 209 cases were in wild animals (90.1% of total) and 23 in domestic animals (9.9%). Of the total number of wild animals the disease occurred in 204 foxes, 3 martens, 1 polecat and 1 roe deer. Of the domestic animals diagnosed rabid 6 were dogs and 17 cats. There were 16 cases fewer compared to the same period of 1991.

The distribution of cases remained about the same as in the previous quarter. Rabies cases were most frequent in the region of South Moravia (63), followed by West Slovakia (33), East Bohemia (31), East Slovakia (31) and Central Slovakia (30).

There was no human rabies case reported.

An oral vaccination campaign of foxes against rabies was carried out in October 1992. During this vaccination campaign 640,000 LYSVULPEN vaccine baits, manufactured by Bioveta Ivanovice had been distributed over

an area of approximately 42,400 km² covering about 60% of the territory of the Czech Republic. The area is shown on the following map (dark zone).



Summary 1992

The total in 1992 amounts to 872 cases, 487 cases less than during the previous year.

Editors note: The editor quoted by mistake in issue 3/92 of this BULLETIN (page 12) that the entire country was vaccinated once. For the Czech republic it should have read 60%.

3.8 Denmark DEN

by Eric Stougaard

The country remained rabies-free.

3.9 Germany, DEU Federal Republic

by Winfried W. Müller and Thomas Müller

A total of 309 rabies cases was reported during "This Quarter", one case less

than during the previous quarter and 397 cases less compared to the fourth quarter 1991.

Four of 16 Bundesländer (federal states) had no rabies: the city states Bremen and Hamburg, Schleswig-Holstein and Thüringen. The Bundesland Nordrhein-Westfalen was newly infected from Rheinland-Pfalz after having been rabies-free since the 3rd quarter 1991 and registered 15 cases (12 in foxes, 3 in cattle). The highest number of cases for one Bundesland occurred again in Baden-Württemberg (120) with the three active foci already mentioned during the previous quarter: in the southwest, the southeast and the north of the Bundesland. All other Bundesländer had a fairly favourable development of their rabies situation.

All rabies infected parts of Germany were treated by oral vaccination of foxes.

One case occurred in a raccoon dog during "This Quarter", in the eastern part of Mecklenburg-Vorpommern. In the area of the eastern 5 Bundesländer, 16 cases of raccoon dog rabies occurred since 1983.

Two cases of bat rabies were noticed in Niedersachsen.

Summary 1992

The annual total amounted to 1425 rabies cases. There were 2174 cases less compared to 1991 (a reduction of 60.4%).

The drastic and steady reduction over several years is undoubtedly connected to the oral vaccination of foxes practiced in Germany since 1983 (for the new Federal States since 1989). The reduction occurred in spite of set-backs, namely, the reinfestation of already rabies free areas. Reinfestation was experienced across an international border in 1992 in the very southeast of the country and clearly across the border of Bundesländer from Rheinland-Pfalz to Nord-rhein-Westfalen.

There was a total of 5 bat rabies cases in 1992.

3.10 Estonia EST

by M. Nautras

During "This Quarter", 40 rabies cases were registered in Estonia, 19 cases more than during the previous quarter. There were 30 cases in wild animals (15 red foxes, 13 raccoon dogs, 2 badgers) and 10 in domestic animals (3 dogs, 4 cats, 3 cattle).

Summary 1992

In 1992 a total of 110 rabies cases were reported in Estonia. 77 cases were in wild animals (70% of total) - 34 foxes, 38 raccoon dogs, 4 badgers and 1 roe deer - and 33 in domestic animals - 16 dogs, 10 cats and 7 cattle. Foxes (34) and raccoon dogs (38) make up 65.5% of all cases.

Of the 16 administrative units in Estland there was an average of 0.17 rabies cases per 100 km² in 1992. The districts Lääne-Virumaa (0.43 in

1992) and Viljaudimaa (0.44) are usually above average.

45,340 dogs and 479 cats were vaccinated in 1992.

3.11 Finland FIN

by Bengt Westerling

The country remained rabies-free.

During "This Quarter" 333 animals were examined for rabies, including 7 dogs, 1 cat, 74 foxes, 223 raccoon dogs, 9 badgers and 7 bats.

Summary 1992

During 1992, a total of 576 animals, including 25 dogs, 20 cats, 141 foxes, 330 raccoon dogs, 15 badgers, 6 lynx, 2 wolves and 14 bats were examined for rabies with immunofluorescence on brain tissue with negative results.

Regardless of the rabies-free status of the country, the vaccination of hunting dogs and dogs put on show is kept compulsory.

Continuing the attempt to prevent spreading of rabies from Russia, the oral vaccination of wildlife along the south-eastern national border which was started in 1990 was continued.

In September 80.000 Tübingen vaccine baits were distributed by air on a 20-25 km deep and 250 km long zone along the border at a total cost of approx. FIM 475.000, surveillance costs not included.

3.12 France FRA

by Michel F.A. Aubert

185 rabies cases were registered during "This Quarter", 1 case less than during the previous quarter. 106 cases were diagnosed in foxes (57.3% of total), 18 in other wild animals and 61 cases in domestic animals (6 dogs, 13 cats, 29 cattle, 13 small ruminants).

The departments (Départements) registering the greatest number of cases were Haute-Marne, Vosges and Meurthe-et-Moselle with 38, 26 and 25 cases respectively.

Summary 1992

The total of animal rabies cases in 1992 amounted to 1285. The rabies incidence diminished by 40.7% compared to 1991. Furthermore, not only the case incidence diminished, but the area contaminated as well.

The oral vaccination campaign during autumn 1992 covered the total area of the country contaminated by the disease.

3.13 Greece GRE

by A. Katsaounis

The country remained rabies-free.

3.14 Hungary HUN

by Balint Kerekes

During "This Quarter", 355 rabies cases were registered in Hungary, 123 cases more (an increase by 53%) than during the same period last year.

Most of the cases were reported in the province (Komitat) Fejér with 44 cases followed by Baranya with 33 and Veszprém with 30 respectively. All of these provinces are located in Transdanubia.

Development of rabies in 1992:

In 1992 a total of 892 rabies cases were diagnosed, only a few cases more than in 1991 (880 cases). The distribution of cases in the different provinces (Komitate) for 1991 and 1992 is shown in FIGUR-ES 3 and 4).

The following animals were affected by the disease in 1992: 694 foxes (77.8% of total), 101 cats (11.3%), 47 dogs, 29 cattle, 4 sheep, 3 roc deer, 2 horses, 2 wild cats, 5 stone martens, 1 badger, 1 polecat, 2 goats and 1 wild boar.

In 1992 1,679,029 dogs were vaccinated against rabies, 1.6% more than during the previous year.

From 19 to 26 October 1992 a first oral vaccination campaign was carried out in a 25 to 50 km wide vaccination belt along the Austrian border (see FIGURE 5). 80,000 "Fuchsoral ad us. vet." vaccine baits (attenuated vaccine virus SAD B19 and tetracycline-HCl marker in the bait) were used covering an area of approx. 5000 km².

The distribution of vaccine baits was executed by an aircraft with a satellite navigation system (GPS-Geographic Position System).

(see Figures 3-5 on next page)

3.15 Iceland ICE

The country remained rabies-free.

3.16 Ireland IRE

The country remained rabies-free.

3.17 Italy ITA

by Santino Prosperi

During "This Quarter", only two rabies cases were diagnosed, one in a fox in the province of Udine on 7th November and one in a dog in Brescia on 12th December. The latter animal, a "Pointer" was used as hunting dog in Hungary in the south-west of Lake Balaton. The dog showed the clinical picture of paralytic rabies. Though it had been vaccinated with an inactivated vaccine, the animal had no antibodies against rabies at the time of its death.

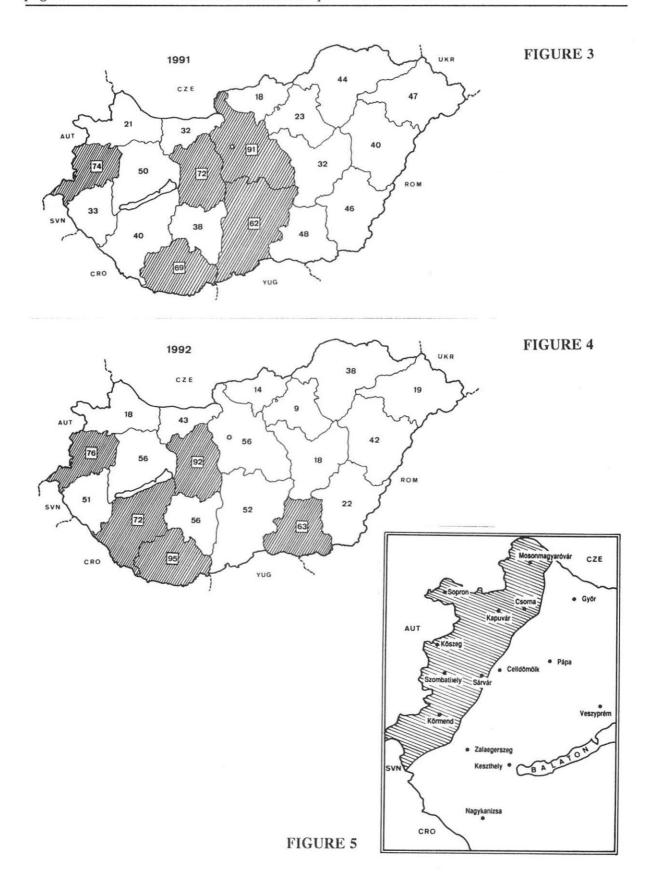
Surveillance, legislation and oral vaccination in 1992:

In 1992 the following samples were examined for rabies in the different Alpine Regions:

- 1. 196 wild animals (of these 185 were foxes) and 186 domestic animals in Piemonte, Valle d'Aosta and Liguria; all of these were negative for rabies.
- 2. 811 wild animals (of these 780 were foxes) and 223 domestic animals in Lombardia; only one dog was rabid.
- 3. 3175 wild animals (of these 2731 were foxes) and 312 domestic animals in Trentino, Alto Adige, Veneto and Friuli Venezia Giulia; 19 foxes, 2 roe deer and 1 badger were rabid (all in the Friuli Venezia Giulia Region).

On 7th March 1992, an Ordinance of the Ministry of Health made the vaccination of dogs, cattle, sheep, goats and equines of Friuli Venezia Giulia Region compulsary. ERA vaccine is to be used. The Health Authorities of Piemonte, Valle d'Aosta, Liguria, Lombardia, Veneto and Trentino Alto Adige will consider compulsary vaccination as soon as their borders are threatened.

Oral vaccination of foxes was carried out in a spring and an autumn campaign in the province of Trieste, Gorizia and Udine in an area covering 1600 km².



3.18 Lithuania LTU

by Algis Dranseika

During "This Quarter", 34 animal rabies cases occurred in 19 different districts (of a total of 44). There was one human case reported.

Of the 34 animal cases 12 were cattle, 1 horse, 5 cats, 4 dogs, 7 foxes, 1 pine marten, 2 ferrets, 1 elk and 1 badger. Among the dogs and cats were strays.

Summary 1992

There was a total of 88 rabies cases registered in 1992.

There were two human cases included. In January a young man had been exposed to a rabid raccoon dog and in October a young girl to a rabid dog.

More than 132,000 dogs and more than 2000 cattle were vaccinated throughout the year.

3.19 Luxembourg LUX

by Joseph Kremer

During "This Quarter", only one case of rabies was registered on 16 November 1992 in a bovine in the far north of the country. In this border area one case was recorded also in a bovine, 3 weeks later in Belgium. There is no doubt a connection between these two cases.

Three foxes and 2

martens were examined for rabies during "This Quarter", but reveiled negative results.

Summary 1992

Only 2 rabies cases were registered in 1992, 14 cases less than in the previous year. Both cases were diagnosed in cattle.

3.20 Latvia LVA

by Z. Andersons and J. Rimeicans

During "This Quarter", 25 animal rabies cases were registered. There has been an increase of 7 cases in comparison with the previous quarter (32) and a decrease of 71 cases when compared to the fourth quarter 1991.

Of 18 wild animals affected (72% of total) 9 were foxes, 7 raccoon dogs, 1 badger and 1 wolf. Of 7 domestic animals 4 were dogs, 2 cats and 1 bovine.

There were 12 districts free of rabies during "This Quarter". The most affected districts of the country were Ogre with 6 cases and Riga with 5 cases.

There was no human rabies case in Latvia.

Summary 1992:

After the year 1990 with a high rabies incidence in Latvia (306 rabies cases), a reduction of cases was noticed in 1991 (283 cases) and 1992 (125 cases).

Reasons for the de-

crease should be the diminished fox and raccoon dog populations by the fatal disease itself.

In 1992 100,411 dogs and 8,527 cats were vaccinated throughout the country.

A field trial of oral immunization of foxes was started in the district Limbaži in 1991. In 1992 oral vaccination was continued in 11 districts covering 5882.7 km² of forest (22% of total territory of forests in Latvia). In this territory approx. 2872 fox dens were located and 14,210 vaccine baits were distributed in their vicinity. Vaccine (rabies fixed virus strain 71, experimental series) produced by Vyshelessky Experimental Scientific Veterinary Institute in Minsk (Byelorussia) was used.

3.21 Moldova MLD

Editors note: These are two official notes on the rabies situation in Moldova collected by the Office International des Épizooties (OIE), Paris and WHO Headquarters, Geneva. The editors of this BULLETIN have contacted Moldova and a regular reporting in the future is expected.

<u>1992</u>

There is the following report to OIE:

Two cases of rabies in cattle were reported in Nisporeny district in the private sector. One of the animals died and the other one was slaughtered. Two cases were reported in dogs in Edincy (Grigoriopol

district). In Rybnitsa district, one cat died from rabies. In wildlife, one rabid fox was killed in Novo-Aneny district, and one rabid squirrel was found dead in Orhei district. In none of the cases the animal affected by rabies had been vaccinated against the disease. The carcasses of all these animals were incinerated.

The report from WHO, Head-quarters, Geneva says:

In 1990 and 1991 oral vaccination of wildlife was practiced on an experimental base. The vaccine was produced in Minsk, Belarus. A total of 2030 doses were used. Bits of meat and fish (ca. 50-100 g) served as bait.

3.22 Netherlands NET

by J.H.M. Nieuwenhuijs

During "This Quarter", 183 animals were investigated for rabies; none of those was found positive.

Summary 1992

In 1992, a total of 803 animals was investigated for rabies (529 adult foxes, 41 young foxes, 6 dogs, 5 cats, 2 cows, 2 deer, 66 badgers, 1 squirrel and 151 bats).

Of the 151 bats, 13 originated from the Blijdorp Zoo in Rotterdam of an approximately 250 bats *Rousettus aegyptiacus* colony held in an artificial cave.

All rabies positive animals (8) were bats. Five

have been specified as *Eptesicus serotinus*; the others still need to be specified.

3.23 Norway NOR

by Gudbrand Bakken

The mainland of Norway remained rabies-free.

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

3.24 Poland POL

by Jan Kołacz

4th Quarter 1992

A total of 1296 rabies cases in animals was reported in Poland during "This Quarter". Of these were 1051 in wild animals (852 foxes, 104 raccoon dogs, 7 badgers, 21 pine martens, 9 polecats, 1 ferret, 43 roe deer, 3 red deer, 9 wild boars, 1 hedgehog, 1 squirrel) and 245 domestic animals (44 dogs, 78 cats, 118 cattle, 1 sheep, 2 goats, 1 horse, 1 pig).

The most affected provinces (voivodeships) of the country were Poznan with 93 cases and Zielona Gora with 86 cases.

Summary 1992

In 1992 a total of 3084 rabies cases were diagnosed in animals. This is an increase by 34.8% in comparison to 1991 (2287 cases) and by 50.8% to 1990 (2045 cases).

The disease has still

been predominant in wildlife (82.6% of total cases). Among 2547 rabid wild animals 2079 were foxes (67.4% of total cases), 231 raccoon dogs (7.5%), 113 deer (3.7%), 67 martens (2.2%), 25 badgers (0.8%), 16 polecats (0.5%), 10 wild boars, 2 squirrels, 2 hedgehogs, 1 ferret and 1 wolf.

Among 534 rabid domestic animals (17.4% of total cases) 115 were dogs (3.7%), 185 cats (60%), 225 cattle (7.3%), 2 sheep, 4 horses, 2 goats, 2 pigs and 2 other domesticated carnivores.

Provinces (there is a total of 49) with a high incidence rate of the disease in 1992 were: Poznan (8.6% of total cases recorded in the country), Gdansk (5.7%), Zielona Gora (5.4%), Elblag (5.3%), Wroclaw (5.2%), Gorzow (4.9%), Szczecin (4.8%), Koszalin (4.6%).

Rabid foxes were reported from 49 provinces, with the highest incidence rate in Poznan (9.0% of rabies cases recorded among foxes in the country), Wroclaw (6.9%), Zielona Gora (6.6%); rabid raccoon dogs were reported from 24 provinces with the highest incidence in Elblag (16.0% of cases recorded among raccoon dogs in the country), Gdansk (15.6%), Suwalki (9.9%), Szczecin (9.1%).

Comparing the development of single animal species involved in the rabies epizootic in 1991 and 1992, an increase can be noticed of the incidence rate among cattle by 65.0%,

martens by 52.3%, foxes by 37.4%, raccoon dogs by 35.9%, cats by 34.0% and deer by 16.5%; and a decrease among dogs by 19.0%.

The animals mostly involved in the epizootic were the red fox (67.5% of all cases in 1992) and the raccoon dog (7.5%).

3.25 Portugal POR

The country remained rabies-free.

3.26 Romania ROM

by Gheorghe Stratulat

During "This Quarter", 11 rabies cases were diagnosed in Romania, 4 in foxes, 1 in an other wild animal and 6 in domestic animals (4 dogs, 1 cat, 1 bovine). The cases were distributed in 8 provinces, 6 in the south of the country and two in the north east.

Summary 1992

The annual total amounted to 52 cases, 2 cases less than in the previous year. Out of 41 provinces in the country, 17 were infected. Cases in one province varied from 1 to 10.

3.27 Russia RUS (European part only)

by B.L.Cherkasskiy, V.A. Vedernikov and V.A. Kibasov

During "This Quarter", 230 rabies cases were reported in the European part of the Russian Federation. Of the total number of cases 174 were in domestic animals - 47 dogs, 16 cats, 103 cattle, 5 horses and small ruminants. Of 52 affected wild animals rabies was diagnosed in 49 foxes, 2 raccoon dogs and 1 wolf.

There were 4 human cases, two in the Republic of Bashkortostan, one in Volgograd Region and one in Bryansk Region.

The Republic of Bashkortostan recorded most of the cases (51), all other Regions and Republics recorded less than 23 cases.

Summary 1992

The annual total of rabies cases amounted to 902, 760 cases in animals, 133 in wild animals and 9 in humans.

The areas of the country mostly affected by the disease were: Astrakhan Region (135 cases), Orenburg Region (81), Republic of Bashkortostan (78), Volgograd Region (74), Saratov Region (73) and Kursk Region (68). All other Regions and Republics registered less than 48 cases.

3.28 Spain SPA

by T. Maté Maté

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

There were two dog rabies cases in Ceuta in the Spanish territory in North Africa.

Summary 1992

A total of 12 rabies

cases were registered in Spain in 1992, all in the Spanish territory of North Africa. There were 5 rabid dogs in Ceuta and 7 rabid dogs in Melilla.

3.29 Slovenia SVN

by Armin Tomašič

During "This Quarter", 58 rabies cases were noticed in Slovenia, 15 cases more compared to the previous quarter. All cases occurred in wild animals (54 foxes, 1 badger, 2 stone martens, 1 roe deer).

Summary 1992

234 rabies cases occurred in 1992. 224 cases were in wild animals (95.7% of total) and 10 cases in domestic animals. There was an increase of cases in comparison with 1991 (188) by 24.5%.

Mostly affected by the disease were the communities Ljubljana-Vič-Rudnik (28 cases), Nova Gorica (22), Mozirje (21). All other communities reported less than 14 cases.

3.30 Sweden SWE

The country remained rabies-free.

3.31 Switzerland SWI

by Urs Breitenmoser

During "This Quarter", the Swiss Rabies Centre examined 716 animals, of which 3.6% (26) were positive for rabies. In the previous

quarter, 3.3% (20 out of 602), and in the fourth quarter of 1991, 5.0% (27 out of 537) had been recorded positive, respectively. The cases of rabies observed involved 16 red foxes, 6 badgers, 1 polecat, 1 domestic cat, and 2 cattle.

All cases recorded came from the same region as in the previous quarters, from the larger vicinity of Basel, in the north of Switzerland. One case in red fox was located outside the area of the 1992 vaccination campaigns. Consequently, in an additional area of 328 km² between the rivers of Rhein and Aare, some 5200 baits were distributed for oral vaccination of red fox in December 1992.

Seventeen bats (1 Myotis daubentoni, 1 Myotis mystacinus, 4 Nyctalus noctula, 1 Pipistrellus kuhli, 2 Pipistrellus nathusii, 3 Pipistrellus pipistrellus, 2 Pipistrellus spec., 2 Plecotus auritus, 1 Plecotus spec.) were examined during the reporting period. All of them proved to be negative for rabies.

No bite exposures of people to animals positive for rabies occurred. The number of people treated for non-bite exposures is not recorded.

Summary 1992

In 1992, a total of 127 animals (4.8% of 2642 examined) were positive for rabies. This was a slight increase compared to the 1991 figures (105 = 4.3% positive cases out of 2434). The main area of infection remained the Jura

Mountains in northwestern Switzerland. Since 1991, however, the core of the epidemic has moved some 50 km to the northeast and is now centred south of Basel.

3.32 Turkey TUR

During "This Quarter", 81 rabies cases were reported from Turkey. Due to dog-mediated rabies occurring in the country 96.3% of the total cases were in domestic animals (53 dogs, 3 cats, 15 cattle, 4 sheep, 2 goats, 1 donkey). Additionally, 3 house mice were diagnosed rabid. Summary 1992

The annual figure for 1992 amounted to 320 cases, 107 less than during the previous year.

The five provinces mostly affected by rabies in 1992 were Sakarya (36 cases), Izmir (26), Gaziantep (24), Balikesir and Manisa (23 cases each). All other infected provinces reported less than 19 cases.

Turkey has continued diminishing annual figures since 1981 with 2260 reported cases to 1992 with 320.

3.33 Ukraine UKR

No data.

3.34 United Kingdom UNK

by P.J. Thomas

The country remained rabies-free during "This Quart-er".

Surveillance 1992 3rd and 4th Ouarters

Reports of suspect rabies outside quarantine were investigated on 13 occasions during the period, involving 4 dogs, 5 cats and 4 foxes. Biting, scratching or licking of humans was reported in 1 case. MAFF Veterinary staff resolved 6 incidents at the initial clinical investigation but in 7 cases it was necessary to submit material to the Central Veterinary Laboratory, Weybridge for examination, in each case with negative results.

69 dogs and cats died whilst in quarantine and in every case material was submitted to the Central Veterinary Laboratory, with negative results.

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

No cases of human rabies occurred during the period.

3.35 Yugoslavia YUG

by Dušan Jakovljević

79 rabies cases were registered during "This Quarter", 77 in Vojvodina and 2 in Serbia. 65 cases were in foxes (82.3% of total) and 14 in domestic animals (4 dogs, 8 cats, 2 cattle).

Summary 1992

The annual total amounted to 147 cases. Of these 125 occurred in Vojvodina, 13 in Serbia, 8 in Bosnia and Hercegovina and 1 in Montenegro.

4. MISCELLANEOUS ARTICLES

4.1 Human rabies cases in Estland

by Matti Nautras Ministry of Agriculture, Tallin

The following human rabies cases were recorded in Estland from 1947 to 1992:

1947-1	1951-1	1984-1
1948-2	1952-3	1985-1
1949-5	1953-3	1986-1
1950-8	1955-1	

4.2 Extension of the Raccoon Rabies Epizootic - United States, 1992

Raccoon rabies, epizootic among raccoons in the southeastern and mid-Atlantic states, has become an increasingly important problem in the northeastern United States. The extension of the epizootic was largely responsible for the 43% increase in the total number of reported cases of animal rabies in the United States from 1990 (4881) to 1991 (6975). In 1991, 3079 cases of rabies in raccoons were reported, the largest number reported in the history of animal surveillance in the United States. This report summarizes the extension of the epizootic into six additional states since 1989.

Connecticut. The raccoon rabies epizootic was first detected in Connecticut in March

1991, when a rabid raccoon was found in Ridgefield, which borders New York state. As of August 31, 1992, the number of confirmed animal rabies cases associated with the epizootic was 508, compared with 193 in 1991. Of the 1085 raccoons tested in 1992, 456 (42%) were positive for rabies. Rabies has occurred in domestic animals (eight cats, two sheep, and one dog) for the first time since the 1940s. Cases have now been confirmed from 64 of Connecticut's 169 cities. In June 1992, a case of raccoon rabies was confirmed in Scotland, less than 20 miles from the Rhode Island border.

New Jersey. Since the raccoon rabies epizootic was first

detected in New Jersey in November 1989, more than 1880 cases of animal rabies have been diagnosed, with 460 cases in 1990, 983 in 1991, and 420 as of July 14, 1992. New Jersey had been free of terrestrial rabies since 1956, when the last case of canine rabies occurred. Most rabies cases since 1989 have occurred in raccoons (1565), followed by skunks (192); cats (57); groundhogs (41); foxes (14); deer (five); domestic rabbits (four); cattle (three); sheep (two); opossums (two); beaver (one); black bear (one); and horse (one). The epizootic currently affects 18 of 21 counties, with only the southernmost counties of the state unaffected.

New Hampshire. On April 6, 1992, a raccoon caught in Rumney, New Hampshire, was confirmed infected with the mid-Atlantic strain of the rabies virus by CDC. The raccoon was wearing two flea collars, suggesting it had been a pet. No owner was found, despite door-to-door canvassing in the area. As of August 31, no other rabid raccoons have been identified.

New York. The raccoon rabies epizootic was first detected in New York in the summer of 1990 and now extends on a 350-mile front involving 24 counties of southern New York. Recent cases in the Albany area, 60 miles north of the rabies front, suggest that translocation of raccoons remains a problem. In 1991, 666 raccoons were confirmed rabid with extensive spillover to other wild and domestic species. As of July 31, 1992, 804 (44%) of 1818 raccoons tested for rabies have been confirmed rabid. The number of persons receiving postexposure rabies prophylaxis increased from 84 in 1989 to 197 in 1990 to 965 in 1991. During the first half of 1992, 589 treatments were administered, a 60% increase over the same period in 1991.

North Carolina. In North Carolina, the first rabid raccoon was found on June 18, 1991, in a county bordering Virginia. During 1991 in two northeastern counties, 12 raccoons and one fox were found to be

rabid. The epizootic now involves four additional counties. The rabies epizootic entered southern North Carolina in June 1992. Through July 31, five raccoons and four foxes have been confirmed rabid in two neighboring south-central counties adjoining South Carolina, including the Charlotte metropolitan area, representing the first extension of a rabies epizootic into a major population center of North Carolina.

Ohio. On March 4, 1992, the West Viriginia State Rabies Laboratory confirmed rabies in a raccoon from Martins Ferry in Belmont County, Ohio. CDC later confirmed the raccoon strain of the rabies virus, the first documented case from Ohio. Martins Ferry borders the Ohio River across from Marshall County, West Virginia, where a dog was found to have the raccoon rabies strain in June 1990. As of June 30, 1992, 15 animals from Belmont County were submitted for rabies testing. Of these, one bat was positive for rabies.

MMWR's editorial note: Raccoon rabies was probably introduced into the mid-Atlantic region in the mid 1970s when raccoons were transported from raccoon-rabies-enzootic regions of the southeastern United States to the mid-Atlantic area for replenishment of hunting stocks. The first cases occurred in West Virginia (1977), with subsequent spread to Virginia (1978), Maryland (1981), Pennsylvania (1982),

Delaware (1987), New Jersey (1989), New York (1990), and Connecticut (1991). Expansion to New England states other than those reported here is expected during the next several years. With the recent identification of raccoon rabies in North Carolina (1991), raccoon rabies is now enzootic from Florida to Connecticut. Isolated reports of cases from Ohio and New Hampshire may indicate further expansion of the geographic limits of the epizootic to the West and North.

Although raccoon rabies has not been responsible for any known human rabies case, the possibility of transmission exists given the presence of large populations of raccoons in areas of high human population density and the ability of raccoons to coexist with humans in urban and suburban areas, as well as in rural areas.

The rabies threat to humans is greatest when epizootics occur in domestic animals, especially dogs. Reduction of the number of human deaths from rabies in the United States has been largely attributed to vaccination of pets and to stray-animal control. These traditional control measures have been effective in breaking the chain of rabies transmission from domestic animals to humans but do not reduce the vast reservoir of rabies infection present in wildlife in the United States.

The use of oral rabies vaccines has shown promise as a tool to curb the spread of

wildlife rabies (1, 2). In the United States, a newly developed vaccinia-rabies glycoprotein (V-RG) recombinant vaccine for the oral vaccination of raccoons is being tested. Field trial studies of vaccine safety conducted in Virginia (1990) and Pennsylvania (1991) showed no detrimental effects on the environment or in nontarget species (3). As a result, the U.S. Department of Agriculture (USDA) recently gave permission for an efficacy field test with the vacine to be conducted in a defined area of New Jersey.

Additional field trials of the oral rabies vaccine for raccoons are needed to establish the appropriate distribution method (e.g., airplane, helicopter, or hand placement), minimum effective geogjraphic area, bait density, frequency, and time(s) of year for vaccination in various habitats. Strategies may vary depending on the reason for an oral-vaccination program (i.e., eliminating rabies, preventing its introduction into an area, or reducing the number of rabid animals in an epizootic area). Until these concerns are addressed, the larger question of whether oral vaccination of wildlife is cost effective cannot be adequately answered.

In addition to threatening the health of humans, domestic animals, and other wildlife, the raccoon rabies epizootic has resulted in severe economic consequences for affected states. A recent study conducted in two counties in New Jersey indicated that private and public expenditures associated with the raccoon rabies epizootic increased from \$405,565 per 100,000 population during a preepizootic period to \$979,027 per 100,000 population during the epizootic period (4). Extrapolated to the entire mid-Atlantic and New England regions, potential costs associated with prevention and control activities during the epizootic period could amount to hundreds of millions of dollars.

A major focus of the public health response to rabies has been education. Education of the public has emphasized ways to reduce the risk of exposure to wild animals in affected areas, the need to keep rabies vaccinations for pet dogs and cats current, and the importance of seeking medical treatment if bitten by or exposed to a potentially rabid animal. Education of veterinarians, animal-control officers, and others in occupations at high-risk for exposure to rabies has emphasized the importance of preexposure prophylaxis against rabies. Education efforts have also targeted physicians and other medical professionals because many physicians in these areas have never given either preexposure or postexposure prophylaxis for rabies.

CDC is working with public health veterinarians and state epidemiologists to develop recommendations concerning alternative strategies for rabies control. A meeting is scheduled for early 1993 with state epidemiologists, public health veterinarians, officials from the USDA, and rabies researchers to discuss approaches for controlling raccoon rabies in the United States. Information about rabies is available from state and local health departments and CDC's Viral and Rickettsial Zoonoses Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases, telephone (404) 639-1075.

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- 2. Wandeler AI, Capt S, Kappeler A, Hauser R. Oral immunization of wildlife against rabies: concept and first field experiments. Rev Infect Dis 1988; 10: S649-53.
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- 4. Uhaa IJ, Data V, Sorhage F, et el. Epizootic raccoon rabies: cost of control and economic benefits of an oral rabies vaccine. J Am Vet Med Assoc (in press).

(Taken from: Morbidity and Mortality Weekly Report, 41, No. 36, 1992; U.S. Centers for Disease Control).

4.3 Review of Reported Rabies Case Data in Europe to the WHO Collaborating Centre Tübingen from 1977 to 1992

by W.W. Müller WHO Collaborating Centre for Rabies Surveillance and Research, at the Federal Research Centre for Virus Diseases of Animals, Tuebingen, Germany

Every two years a 4.3.3 Bat rabies cases review of the data material reported to the WHO Reference Centre, Tübingen from the beginning in 1977 is summarized in this BULLETIN. The last review appeared in RABIES BULLETIN EUORPE 4/90. The new data are partly supplemented if they were received late for the quarter to be published. In this issue we present:

4.3.1 Table of quarterly figures

TABLE 6 of SECTION 5 summarizes 16 years of rabies cases in animals and men. The summary of issue 4/90 has been used again. For the last two years the political changes have been considered in as much as six new countries have been included: Croatia (CRO), Estonia (EST), Lithuania (LTU), Latvia (LVA), the Russion Federation (RUS) and Slovenia (SVN).

4.3.2 Graph with annual figures

On a map of Europe (ANNEX 3) continuous columns indicate the development of rabies in individual countries over 16 years. Figures below 100 are given in digits.

Bat rabies has its own
cycle. The epizootic in Europe
occurs mainly in areas without
fox-mediated rabies. Within the
different bat populations ap-
prox. 95% of all cases occur in
the species <i>Eptesicus serotinus</i> .
Due to the life cycle of the bats
rabies is very seasonal. Of 446
rabies cases 321 cases occurred
during the third quarter of the
year, a time of great activities
in the bat colonies.

Of the total number of cases the bat cases have been singled out by year and coun-

Country	Number o	f Cases
Czechoslova	kia	1
Germany, Do	em.Rep.	3
Denmark		164
Germany, Fe	ed.Rep.	68
France		2
Netherlands		194
Poland		2
Spain		7
USSR, Europ	pean Part	4
Switzerland		1
Total	-	446

Year	Number of cases
1977	1
1982	1
1983	1
1985	15
1986	122
1987	142
1988	53
1989	42
1990	40
1991	15
1992	14
	
Total	446

4.3.4 Human rabies cases

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

Country	Number of Cases	Imported Cases	Year
Austria	1		1979
Belgium	2	21)	1981, 1988
Czechoslovakia	2	12)	1989 ²⁾ , 1990
Estonia	3		1984, 1985, 1986
Finland	13)		1985
France	5	54)	1979, 1980, 1982, 1991, 1992
Germany, Dem.Rep.	2		1981, 1990
Germany, Fed.Rep.	1	15)	1986
Lithuania	2		1992
Poland	7	169	1977, 1979(2), 1980, 1983°, 1984, 1985
Romania	3		1977
Russia, Europ. part	9		1992
Switzerland	3		1977
Turkey	409)		1977(34), 1978(2), 1979(3), 1991(1)
United Kingdom	8	87)	1977(2), 1978, 1981, 1986, 1987, 1988(2)
USSR, European part	439)		1977, 1985, 1989(10), 1990(15), 1991(16)
Yugoslavia	9	18)	1977(2), 1978(2), 1979(2), 1980(2), 1989 ^(s)
Totals	141	19	

- 1) Imported from Ruanda and Zaire
- 2) Imported from Vietnam
- 3) Possibly of bat origin, but until now no confirmed bat rabies in the country
- 4) Imported from Tunisia, Egypt, Senegal, Mexico, Algeria
- 5) Imported from India
- 6) Imported from Sudan
- 7) Imported from India (4), Pakistan (2), Zambia, Bangladesh
- 8) Imported from Algeria
- 9) Figures not complete

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

LOCATION	•	DOM	EST:	I C A	NIM	ALS			WIL	D A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
ALB ALBANIA **							0						0		0
AUT AUSTRIA	1	2	10	-	2	-	15	98	2	7	4	_	111	1	126
BEL BELGIUM	_	-	1	-	_	-	1	2	-	- 1	_	-	2		3
BUL BULGARIA 1)	-	_	_	_	-	_	ō	_	-	-	_	-	_	1	0
SYE BELARUS **							0						٥	1	1 6
CRO CROATIA	-	7	1-1	-	2	_	9	73	-	-	-	_	73	1	82
CZE CZECHOSLOVAKIA	6	17	1-1	-	-	-	23	204	_	4	1	_	209	1	232
DEN DENMARK *		(3-0)					0				_		0		0
DEU FED.REP. OF GERMANY	3	24	47	_	14	-	88	189	8	8	12	4	221	1	309
EST ESTONIA	3	4	3	_	_	_	10	15	2			13	30		40
FIN FINLAND *							0		_				0	1	0
FRA FRANCE	6	13	29	_	13	_	61	106	3	7	7	1	124	1	185
RE GREECE *	100	National I	in the same of		57.073		0					_	0	1	1 0
HUN HUNGARY	11	47	12	_	1	-	71	279	1	1	2	1	284	1	355
ICE ICELAND *							0		_	- 1	-	-	0	1	0
TRE IRELAND *					1	1	0						ő		l ő
ITA ITALY	1	-	_	-	-	-	1	1	_	-		_	1	1	2
_TU LITHUANIA	4	5	12	1	-	l –	22	7	1	3	1	_	12	1	35
LUX LUXEMBOURG	-	_	1	_	_	-	1	1	_		-		0	1 -	1
-VA LATVIA	4	2	1	-	-	_	7	9	1	_	_	В	18	1	25
ALD MOLDOVA **							o	-	-				0		1 0
NET NETHERLANDS *							0						٥		1 0
NOR NORWAY *							0						0		0
POL POLAND	44	78	118	1	з	1	245	852	7	31	46	115	1051		1296
POR PORTUGAL *		* -				(77)	0	17.55					0	1	0
ROM ROMANIA	4	1	1	-	_	_	6	4	_	_	_	1	5	1	11
RUS RUSSIAN FEDERATION	47	16	103	5	3	_	174	49	-	_	_	3	52	4	230
SPA SPAIN 2)	2	-	-	-	_	_	2						0	135	2
SVN SLOVENIA	1000						0	54	1	2	1	_	58	1	58
SWE SWEDEN *							0				-		0	1	1 0
SWI SWITZERLAND + LIECHT	-	1	2	=	-	_	3	16	6	1	_	_	23	i	26
TUR TURKEY	53	3	15	-	6	1	78	-	_		_	3	3	1	81
JKR UKRAINE **							0						0	1	1 0
JNK UNITED KINGDOM *							o						0	1	1 0
YUG YUGOSLAVIA	4	8	2	-	-	-	14	65	-	-	-	-	65		79
TOTAL	193	228	357	7	44	2	831	2023	32	64	74	149	2342	5	3178
PER CENT	6.0	7.3	11.3	0.2	1.5	0.1	26.4	63.4	1.0	2.0	2.3	4.7	73.4	0.2	100.0

* NO CASES ** NO DATA 1) DATA AVAILABLE AS ANNUAL TOTAL ONLY - SEE TABLE 2 2) NORTH AFRICA

EUR EUROPE	1-4/	92)	RABI	ES	CASE	s					1. 1.	92 - 31	.12.92
LOCATION		DOM	EST	I C A	NIM	ALS			WI	L D A	NIM	ALS		Ī	Ī
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	HUMAN	TOTAL
ALB ALBANIA **							0						0		0
AUT AUSTRIA	3	14	26	2	15	-	60	910	55	46	46	-	1057	1	1117
BEL BELGIUM	-	_	8	1	8	-	17	17	-	-	-	-	17	1	34
BUL BULGARIA	-	6	5	_	4	-	15	7	_	-	-	-	7	i .	22
BYE BELARUS **							0						0	1	0
CRO CROATIA	5	14	2	_	2	-	23	166	-	1	1	2	170	1	193
CZE CZECHOSLOVAKIA	18	46	1	_	_	-	65	775	8	19	4	1	807		872
DEN DENMARK *							0					855	0		0
DEU FED.REP. OF GERMANY	59	77	81	6	50	1	274	1011	24	51	56	9	1151	I	1425
EST ESTONIA	16	10	7	_	-	-	33	34	4	_	1	38	77	1	110
FIN FINLAND *					1		0						0	1	0
FRA FRANCE 1)	30	49	63	19	54	2	217	1000	16	32	16	3	1067	1	1285
GRE GREECE *							0	35.55.50					0		0
HUN HUNGARY	47	101	29	2	6	-	185	694	1	6	3	3	707	1	892
ICE ICELAND *			1	1			0						0	ł	0
IRE IRELAND *				1		1	0	1	1				0	1	0
ITA ITALY	1		-	-	-	-	1	19	1	-	2	-	22	1	23
LTU LITHUANIA	18	15	30	1	1	1	66	12	1	6	1	-	20	2	88
LUX LUXEMBOURG	-	-	2	-	-	-	2						0		2
LVA LATVIA	21	18	5	-	-	-	44	44	3	4	-	30	81	1	125
MLD MOLDOVA **				l		1	0						0	1	0
NET NETHERLANDS				1			0	-	-	1-	-	8	8	1	8
NOR NORWAY 2)	10 00000	10000					0	-	-	-	-	1	1	1	1
POL POLAND	115	185	225	4	4	4	537	2079	25	84	113	246	2547	1	3084
POR PORTUGAL *							0						0		0
ROM ROMANIA	12	6	5	_	7	1	31	18	-	-	-	3	21		52
RUS RUSSIAN FEDERATION	166	52	379	15	145	3	760	119	_	3	-	11	133	9	902
SPA SPAIN 3)	12	-	-	-	_	-	12						0		12
SVN SLOVENIA	7	2	1	_	_	-	10	196	9	12	6	1	224		234
SWE SWEDEN *					1		0						0		0
SWI SWITZERLAND + LIECHT		3	2	_	_	-	5	103	16	1	1	1	122		127
TUR TURKEY	239	11	45	2	12	5	314	-	2	- 1	-	4	6		320
UKR UKRAINE **							0						0		0
UNK UNITED KINGDOM *			_		-		0						0		0
YUG YUGOSLAVIA	9	13	Э	_	7		32	114	-	-	1	-	115		147
TOTAL	778	622	919	52	315	17	2703	7318	165	265	251	361	8360	12	11075
PER CENT	7.0	5.6	8.3	0.5	2.8	0.2	24.4	66.1	1.5	2.4	2.3	3.3	75.5	0.1	100.0

* NO CASES ** NO DATA 1) HUMAN CASE IMPORTED FROM ALGERIA 2) ISLAND OF SVALBARD 3) NORTH AFRICA

4th Quarter: October - December 1992

TABLE 2

TABLE 3

EUR EUROPE	4/92			A B I E S OTHER ANI		S E S				1.	10.92 - 3	31.12.92
LOCATION	OTHER DOMES	TIC ANIMALS				OTHE	R WILD ANI	MALS				T0741
CODE NAME	DONKEY	PIG	WOLF	RACCOON DOG	WILD BOAR	HEDGEHOG	INSECTIV. BAT	SQUIRAEL	HOUSE	HARE	OTHERS	TOTAL
DEU FED.REP. OF GERMANY	-	-	-	1	-	1	2	-	-	-	-	4
EST ESTONIA	-	-	-	13	-	-	-	-	-	-	-	13
FRA FRANCE	-	-	-		-	-	-	-	-	1	-	1
HUN HUNGARY	-	_	-	-	1	-	-	-	-	-	-	1
LVA LATVIA	-	-	1	7	-	-	-	-	-	-	-	8
POL POLAND	-	1	-	104	9	1	-	1	-	-	-	116
ROM ROMANIA	-	-	-	-	-	-	-	-	-	-	1	1
RUS RUSSIAN FEDERATION	-	-	1	2	-	-		-	-	-	-	3
TUR TURKEY	1	-	-	_	-	-	_	-	3	-	_	4
TOTAL	1	1	2	127	10	2	2	1	3	1	1	151
PER CENT	0.7	0.7	1.3	84.1	6.6	1.3	1.3	0.7	2.0	0.7	0.7	100.0

TABLE 4

EUF	} ,	EUR	0 P I	Ē	1-4/	/92			R A	B I E	S NIMAL	C A S	E S						1.	1.92 - :	31.12.92
	0.	THER	DOMES.	TIC AN	IMALS							0.	THER WI	(LD AN	[MALS						
COUNTRY	OTH.DOM. CARNIVO	DONKEY	PIG	OTH.DOM. HERBIVOR	STRAY DOG	OTHERS	ARCTIC FOX	WOLF	RACCOON DOG	WILD	LYNX	RACCOON	WILD BOAR	нервенов	INSECTIV	SQUIRREL	BLACK RAT	HOUSE	HARE	OTHERS	TOTAL
CRO	-	-	-	-	-	-	-	1	-	1	_	-	-	-	-	-	-	-	-	-	2
CZE	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
DEU	1	-	-	-	-	-	-	-	1	=	-	1	1	1	5	-	~	-	-	-	10
EST	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	38
FRA	-	1	-	1	-	-	-	-	- 1	1	-	-	1	-	-	-	-	-	1	-	5
HUN	-	-	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	3
LTU	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
LVA	-	-	-	-	-	-	-	1	29	-	-	-	-	-	-	-	-	-	-	-	30
NET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	8
NOR	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
POL	2	-	2	-	-	-	-	1	231	-	-	-	10	2	-	2	i-	-	-	-	250
ROM	-	-	-	-	-	1	-	-	-	-	-	-	-	-	=	-	-	-	-	Э	4
RUS	-	-	-	-	-	3	-	4	3	-	-	-	-	-	-	-	2	-	-	2	14
SVN	-	-	-	1-1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
SWI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
TUR	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	9
тот	3	6	2	1	1	4	1	7	302	4	1	1	14	3	14	2	2	4	1	5	378
PER	0.8	1.6	0,5	0.3	0.3	1.1	0.3	1.9	79.9	1.1	0.3	0.3	3.7	0.8	3.7	0.5	0.5	1.1	0.3	1.3	100.0

S EUS	E U R O P Z			977 - 1990		SUR
COD		QUARTER YEAR!	QUARTER YEAR QUAR 1 2 3 4 1979 1	TER ! YEAR!! QUARTER ! YEAR	R: : OUARTER : YEAR: :	QUARTER YEAR LOC 1 2 3 4 1983 COD
AUT BEL BUL		1136 1139 868 901 4044 78 25 15 13 8 61 1	9 529 404 296; 2018; 250 28; 8 5 4 8 25; 11 2:	167 1111 8161 197 209 188 1851 777 2 111 471 24 23 36 91 177	4 135 139 128 273 675	406 375 264 329 1374 AUT 208 119 80 109 516 BEL
CZE DDR DEN	168 134 156 1371 5951 573 360 378 4431 17541	222 162 172 191 747 14 329 225 361 343 1258 39	3 201 193 2501 7871 435 301 6 279 267 5411 14831 535 461	233 243 1212 272 254 225 349 1100 527 533 2056 474 405 470 557 1900		208 119 80 109 516 BEL 0 BUL 659 466 428 537 2090 CZB 680 533 518 496 2227 DDR
DEU	1815 1047 1072 1050 4984	1094 741 916 1012 3763 124	4 1035 1210 1600 5089 2014 1329	1582 1680 6605 1623 1102 1320 1376 542	0 0	2074 1333 1496 2033 6936 DEU
FRA GRE HUN	21 156 99 250 736	629 169 192 310 1300 54	2! 2!!	275 375 1620 552 412 550 827 234 0 3 191 204 918 314 122 194 372 100	3 1 1	802 464 637 760 2663 FRA 1 1 29 174 260 976 HER 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ICE IRE ITÀ	3 26 39 29 97	83 82 39 46 250 3 22 16 16 8 62	0 28 17 4 79 3	2 5 12 55 120 113 79 36	7 112 82 88 63 345	0 ICS 93 115 127 113 448 ITA 35 15 20 36 106 LUX
LUX NET NOR POL	1 1 - 1 -1 21	0	3 3 4 13 23 8 1 - 1 1 1	! 0 (6 33 24 41 107 205 0 0 1 0	35 15 20 36 106 LUX 1 - 1 13 15 NET 0 NOR
POR	33 20 11 49 113	1 011	5 189 287 350 1041 275 18 0 0 35 25	011 1	0 0	138 96 259 343 836 POL 0 POR 21 14 9 15 59 ROM
SPA SSR SWE	1 1 1 2	309 187 237 340 1073 34	1 - 11 1 1 -	167 185 816 142 98 81 160 48	1 1 1	5 2 2 1 10 SPA 153 117 100 228 598 SSR 0 SWE
TUR UNK	-> -> 889 316 1205 1 1 21	265 204 232 351 1052 36 313 410 387 372 1482 51				213 204 269 378 1064 SWI 483 511 549 389 1932 TUR 0 UNK
YUG	1 17 16 -> 121; 154; 1 4934 3289 4136 4462; 16821;		6 120 72 100 418 224 203 4 4014 3913 4921 18142 1 5953 4276	173 336 935 686 858 250 322 2110 4321 4875 19425 5463 4700 4523 5346 2003		381 251 103 414 1149 YUG 6766 4744 5036 6454; 23000; TOT
LOC		QUARTER YEAR 1 2 3 4 1985	QUARTER YEAR QUAR 1 2 3 4 1986 1	TER YEAR! QUARTER YEAR 3 4 1987 1 2 3 4 1987		QUARTER YEAR! LOC 1 2 3 4 1990 COD
AUT BEL BUL	401 441 303 277 1422 129 87 112 177 505	385 524 428 407 1744 366 91 49 137 169 446 111				908 572 406 628 2514 AUT 94 24 11 15 144 BEL
CZE DDR DEN	802 563 549 530 2444 570 415 572 458 2015	574 432 317 327 1650 39 348 281 373 403 1405 34	6 299 429 496	449 409; 1693; ; 474 382 687 847; 239	0 569 470 336 338 1713 0 941 659 1018 978 3596	94 24 11 15 144 BEL 0 BUL 381 345 305 354 1385 CZB 971 659 933 *** 2563 DDR
DEU FIN FRA	2092 1516 1608 1840 7056 1006 687 551 627 2871	1 1 1 .	3 1092 1218 1467 5260 11197 856	846 892 3791 737 438 530 924 262 0	3 6 6	725 419 420 1445 3009 DEU
GRE HUN ICE	465 156 183 371 1175	361 157 164 349 1031 36	8 602 605 570 2465 660 478 0 5 660 478 8 172 240 484 1264 568 276	241 381 1466 411 157 236 372 117	0 0 0 6 350 138 224 349 1061	1132 715 507 630 2984 FRA 0 GRE 366 153 240 333 1092 BUN
IRE ITA LUX	128 141 54 31 354 36 9 9 10 64	49 45 25 3 122 10 5 10 24 28 677 10	0 17 2 - 29 -	0 2 19 2	0	0 ICE 0 IRE 0 ITA 40 13 5 6 64 LUX
NET NOR POL	42 16 2 5 65	7 9 16 -		70 9 86	0 0	- 4 15 3 22 NZT - 1 1 1 NOR
POR	382 284 395 455 1516 1 17 17 140 1 3 4	258 161 349 306 1074 227 22 25 8 19 74 21 7 - 7 3 17	5 24 12 8 69 18 10	01 0	0 0 0 0 0 0 0 0 0	664 317 461 603 2045 POL 0 POR 8 8 10 23 49 RCM - 1 5 - 6 SPA
SPA SSR SWE	0	0	0	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 -> -> -> -> 3632	1123 726 719 11541 37221 SSR
TUR UNK	337 426 381 316 1460	87 96 140 89 412 76 334 336 325 289 1284 271	1 348 311 336 1266 354 242 - 1 - 1 1 -	199 210 1005 207 220 137 146 710	0 162 118 157 147 584	5 5 4 11 25 SWI 153 165 138 127 583 TUR 0 UNK
YUG	; 661 406 193 343; 1603; ; 7511 5432 5110 5570; 23623; ;	500 4175 4730 5054: 10057: 4555		122 227; 599; 347 207 246 473; 127	3 560 276 214 360 1410	253 156 168 259; 836; YUG
		2007 1010 1037 30041 130011 1 1011	3 3300 1037 17401 171007 1 1726 300	3816 4285; 16694; 1 4394 2969 3664 5052; 1607	11 1 0210 4134 4330 31011 243/31 1	0023 4263 4347 5571; 21044; TUT

roc		QUAR'		1	YEAR		QUAR		I	YEA
COD	1	2	3	4	1991	1	2	3	4	199
AUT	839	580	508		2460		283			
BEL	12				291	24	6	1		
BUL	-	-	-	61	61	-				
CRO		-		-1	01		27			
CZE	533	336	242	2481	13591	375	146	119	2321	872
DEN	-	-	-	- 1	01	-				
DEU	1230	884	779	7061	35991		270	310	3091	1425
EST	-	-	-	-1	01	30	19	21	401	110
FIN	-	_	-	-1	01	-		-	-1	
FRA	656	512	516	4821	2166	589	325	186	1851	1285
GRE	-	-	-	-1	01	-	-		1	
HUN	325	139	184	2321	880	240	107	190	355	892
ICE	-	-	-	-1	01	-	-	-	-1	(
IRE	-		-		01	-		-		(
ITA	-	-	1	3	41	11	4			23
LTU	-				01	17	13	23	351	88
LUX	2	4	2	81	161	1	_	-	11	- 2
LVA	-	-	-	-1	01	35	33	32	251	125
NET	-	-	12	-1	121	-	2	6	-1	
NOR	-	-	-		01	-			-1	
POL	508	378	642	7591	22871	645	367	776	12961	308
POR	-	-	-	-1	01	_		_	-	(
ROM	11	14	9		541	17	14	10	11]	5
RUS I	-	-	-	-1	01	341	190	141	2301	90:
SPA	-	2	2	41	81	5	4	1	21	12
SSR	1088	423	393	616	25201		-	-		(
SVN	-	-	-	-1	01	93	40	43	581	23
SWE	-	-	-	-1	01	-	-	-	-1	(
SWI	25	29	24	271	1051	39	42	20	261	12
TUR	89	142	108	891	4281	67	105	67	811	320
JNK	_	-	-	-i	01	-	-	-	-i	(
YUG	340	153	77	118	688	25	24	19	791	14
TOT I	5658	3600	3503	38601	16621	3733	2022	2120	32001	1107

TABLE 6: RABIES CASE RATES (% TOTAL) FOR INDIVIDUAL ANIMAL SPECIES AND FOR TOTAL CASES OF 10 EUROPEAN COUNTRIES RANKING HIGHEST IN 1992.

EUR ЕUROPE	1-4/	92											1. 1.	92 - 31	.12.92
LOCATION		D O M	EST	I C A	NIM	ALS			WI	L D A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
EUROPE															0.
TOTAL RABIES CASES	778	622	919	52	315	17	2703	7318	165	265	251	361	8360	12	11075
						PER CE	NT INVO	LVEMENT	/ COUN	TRY					
POL POLAND	14.8	29.7	24.5	7.7	1.3	23.5	19.9	28.4	15.2	31.7	45.0	68.1	30.5		27.8
DEU FED.REP. OF GERMANY	7.6	12.4	8.8	11.5	15.9	5.9	10.1	13.8	14.5	19.2	22.3	2.5	13.8		12.9
FRA FRANCE	3.9	7.9	6.9	36.5	17.1	11.8	8.0	13.7	9.7	12.1	6.4	0.8	12.8	8.3	11.6
AUT AUSTRIA	0.4	2.3	2.8	3.8	4.8	-	2.2	12.4	33.3	17.4	18.3	-	12.6		10.1
RUS RUSSIAN FEDERATION	21.3	8.4	41.2	28.8	46.0	17.6	28.1	1.6	-	1.1	-	3.0	1.6	75.0	8.1
HUN HUNGARY	6.0	16.2	3.2	3.8	1.9	-	6.8	9.5	0.6	2.3	1.2	0.8	8.5		8.1
CZE CZECHOSLOVAKIA	2.3	7.4	0.1	-	-	-	2.4	10.6	4.8	7.2	1.6	0.3	9.7		7.9
TUR TURKEY	30.7	1.8	4.9	3.8	3.8	29.4	11.6	-	1.2	-	-	1.1	0.1		2.9
SVN SLOVENIA	0.9	0.3	0.1	-	-	-	0.4	2.7	5.5	4.5	2.4	0.3	2.7		2.1
CRO CROATIA	0.6	2.3	0.2	-	0.6	_	0.9	2.3	-	0.4	0.4	0.6	2.0		1.7
TOTAL FROM 10 COUNTRIES	689	551	852	50	288	15	2445	6950	140	254	245	280	7869	10	10324
EQUAL % TOTAL	88.6	88.6	92.7	96.2	91.4	88.2	90.5	95.0	84.8	95.8	97.6	77.6	94.1	83.3	93.2

AUT AUSTRIA	•			1	RABI	ES (CASE	s					1.10.	92 - 31	.12.92
LOCATION		D O M	EST	I C A	NIM	ALS			WI	L D A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
104 GUESSING 105 JENNERSDORF 107 NEUSIEDL AM SEE 108 OBERPULLENDORF	1	_	_	-	-	_	0 0 0	2 1 1 3	=	-	-	=	2 1 1 3		2 1 1 4
109 OBERWART 306 BADEN 309 GMUEND 312 KORNEUBURG 315 MELK	-	1	-	-	-	-	0 1 0 0	1 4 1 2	-	-	2 -	-	1 6 1 2		1 7 1 2 1
316 MISTELBACH 317 MOEDLING 318 NEUNKIRCHEN 320 SCHEIBBS							0 0	6 13 -	- 1 1	- 3 - -	1 -	=	6 17 1		6 17 1
406 FREISTADT 411 PERG 502 HALLEIN 503 SALZBURG-LAND	-	-	2	-	-	-	0 0	3 1 3	=	1 - -	=	=	0 4 1 3		2 4 1 3
505 TAMSWEG 610 LEIBNITZ 701 INNSBRUCK-STADT 703 INNSBRUCK-LAND	_	-	_	-	1	_	0 0 1	1 1 31	-	- 2	- - 1	=	0 1 1 34		1 1 1 35
705 KUFSTEIN 706 LANDECK 709 SCHWAZ 801 BLUDENZ	_	-	1 6	_	-		0 0 0 1 8	1 7	-		=	=	1 2 1 7		1 2 1 8
BO2 BREGENZ TOTAL	1	2	10	0	2	0	15	98	2	7	4	0	111	0	126
PER CENT	0.8	1.6	7.9	0.0	1.6	0.0	11.9	77.8	1.6	5.6	3.2	0.0	88.1	0.0	100.0

				ı	RABI	ES (CASE	s					1.10.	92 - 31	.12.92
LOCATION		D O M	EST:	I C A	NIM	ALS			WIL	_D A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
BEL BELGIUM					¥	<i>a ></i>	5								
LG LIEGE LX LUXEMBOURG	-	-	1	-	-	-	1 0	2	_	-	-	_	0		1 2
TOTAL	0	0	1	0	0	0	1	2	0	0	0	0	2	0	3
FRA FRANCE			1		1		ľ	ľ	1	ı	1	1	ľ	La	
08 ARDENNES 10 AUBE	-	1	-	-	, -	-	0	1 5	=	-	-	=	1 5		2 5
21 COTE D'OR 51 MARNE	_	2	1 -	_	_	_	3 2	6	-	1	-	-	7 0		10
52 MARNE (HAUTE)	_	. 2	7	_	6	_	14	22	1	_	1	_	24		38
54 MEURTHE ET MOSELLE	_	1	4	_	1	_	6	16	1	2		-	19		25
55 MEUSE	1	_	6	_	1	_	8	7	1 -	_	_	-	7	1	15
57 MOSELLE	1	_	2	-	2	-	5	5	-	1	_	-	6	1	11
67 RHIN (BAS)	-	1	3	-	-	-	4	10	-	1	1	-	12		16
68 RHIN (HAUT)	1	1	-	-	-	-	2	3	-	1	3	1	8		10
70 SAONE (HAUTE)	-	1	4	-	5	-	7	7	_	1	1	-	9	l .	16
76 SEINE MARITIME	1	1	-	-	_	_	2	2	-	-	_	-	2	l .	4
88 VOSGES	2	2	2	-	1	-	7	18	I -	-	1	-	19		26
90 TERR.DE BELFORT							0	4	1	-	-	_	5		5
TOTAL	6	13	29	0	13	0	61	106	3	7	7	1	124	0	185
PER CENT	3.2	7.0	15.7	0.0	7.0	0.0	33.0	57.3	1.6	3.8	3.8	0.5	67.0	0.0	100.0
SPA SPAIN															
51 CEUTA (NORTH AFRICA)	2	-	-	_	_	_	2						0		2
TOTAL	2	0	0	0	0	0	2	0	0	0	0	0	0	0	2

CRO CROATIA					RABI	ES (CASE	S					1.10.	92 - 31	.12.92
LOCATION		р о м	EST	I C A	NIM	ALS			WII	LD A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
004 BJELOVAR 011 CAKOVEC 012 CAZMA 013 DARUVAR	-	-	-	-	2	-	0 0	1 3 1	=	-	-	=	1 3 1		1 3 3
014 DELNICE 017 DONJI MIHOLJAC 020 DUGA RESA	-	1	-	-	-	-	1 0 0	2 1 2 2	=	-	=	=	2 1 2 2		5 5 5
021 DUGO SELO 023 DAKOYO 024 DURDEVAC 034 JASTREBARSKO	-	1	-	-	-	-	0 1 0 0	2 3 7	-	=	=	=	2 0 3 7		2 1 3 7
036 KARLOVAC 040 KOPRIVNICA 043 KRAPINA 044 KRIZEVCI 046 KUTINA	-	1	-	-		-	0 0	3 1	=	=	=	=	0 3 1 1		1 1 1
052 NASICE 057 OGULIN 060 ORAHOVICA 061 OSIJEK	-	1	-	-	-	-	0 1 0 0	1 8 2 1	=	=	-	=	1 8 2 1		1 9 2 1
073 RIJEKA 078 POZEGA 079 SLAVONSKI BROD 082 SPLIT	-	1 1	-	-	-	-	1 0 1	5 1 2 6	=		=	=	5 1 2 6		6 1 3 6
083 SIBENIK 088 VINKOVCI 089 VIROVITICA 092 VRBOVEC							0 0 0	1 1 1	=	-	-	-	0 1 1 1		1 1 1 1
093 VRBOVSKO 097 ZABOK 101 ZUPANJA 102 GRAD ZAGREB							0 0 0	1 3 2 8	=	-	=	-	1 3 2 8		1 3 2 8
TOTAL	0	7	0	0	2	0	9	73	0	0	0	0	73	0	82
PER CENT	0.0	8.5	0.0	0.0	2.4	0.0	11.0	89.0	0.0	0.0	0.0	0.0	89.0	0.0	100.0

LOCATION		D O M	EST:	I C A	NIM	ALS			WI	L D A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
00 DISTRICT OF PRAGUE 01 CENTRAL BOHEMIA 02 SOUTH BOHEMIA 03 WEST BOHEMIA	1	- 1	Ξ	-	=	=	0 1 2 0	3 9 6	=	1 -	=	=	0 4 9 6		11
04 NORTH BOHEMIA 05 EAST BOHEMIA 06 SOUTH MORAVIA 07 NORTH MORAVIA	-	1 3 1	-	-	=	-	1 0 3	16 31 59 4	=	-	1		16 31 60 4		17 31 63
O CZECH REPUBLIC	2	6	-	-	-	-	8	128	-	1	1	-	130		138
10 DISTRICT OF BRATISLAV 11 WEST SLOVAKIA 12 CENTRAL SLOVAKIA 13 EAST SLOVAKIA	1 - 3	6 5 -	-	-	=	=	0 7 5 3	25 24 27	=	1 1 1	111	=	0 26 25 28		33 30 31
1 SLOVAK REPUBLIC	4	11	-	-	-	-	15	76	-	3	-	-	79		94
TOTAL	6	17	0	0	0	0	23	204	0	4	1	0	209	0	232
PER CENT	2.6	7.3	0.0	0.0	0.0	0.0	9.9	87.9	0.0	1.7	0.4	0.0	90.1	0.0	100.0

LOCATION		DOM	EST:	I C A	NIM	ALS			WII	L D A	NIM	ALS		HUMAN	TOTAL
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
01 SCHLESWIG-HOLSTEIN							0						0		0
02 HAMBURG							0						0	1	0
03 NIEDERSACHSEN	-	1	2	-	2	-	5	16	-	2	1	3	22	1	27
04 BREMEN						1	0		1				0	1	0
05 NORDRHEIN-WESTFALEN	-	-	3	-	-	-	3	12	-	-	-	-	12	1	15
06 HESSEN				1	I		0	2	-	-	-	-	2	l	2
07 RHEINLAND-PFALZ	-	1	2	-	-	-	3	11	-	1	1	-	13	1	16
08 BADEN-WUERTTEMBERG	-	4	18	_	4	-	26	77	8	2	7	-	94	1	120
09 BAYERN	-	2	15	-	1	-	18	36	-	1	1	_	38	1	56
10 SAARLAND	-	4	2	-	-	-	6	2	-	-	-	-	2	1	8
11 Berlin				1	1	1	0	2	-	1	-	-	3		3
12 Brandenburg	1	5	1	-	2	-	9	7	-	-	-	-	7	1	16
13 MecklenbVorpommern	1	3	_	-	-	-	4	4	-	_	2	1	7	1	11
14 Sachsen	-	2	2	-	3	-	7	1	-	1	1 -	-	2	1	9
15 Sachsen-Anhalt	1	2	2	-	2	-	7	19	-	-	1	-	19	1	26
16 Thueringen							0						0		0
TOTAL	3	24	47	0	14	0	88	189	8	8	12	4	221	0	309
PER CENT	1.0	7.8	15.2	0.0	4.5	0.0	28.5	61.2	2.6	2.6	3.9	1.3	71.5	0.0	100.0

				ı	RABI	ES (CASE	s					1.10.	92 - 31	. 12.92
LOCATION		DOM	EST	I C A	NIM	ALS			WII	D A	NIM	ALS		HUMAN	TOTAL
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
EST ESTONIA															
O1 Harjumaa O3 Ida-Virumaa O4 Joegevamaa O5 Jaervamaa O7 Laeaene-Virumaa O8 Polvamaa O9 Paernumaa 10 Raplamaa 11 Saaremaa 12 Tartumaa 13 Valgamaa 14 Viljandimaa 15 Vorumaa	- 11	1 1 1 4	1 2 3	- - - -	0	- - - - 0	0 0 0 1 3 2 0 1 0 0 0 2 1	1 1 1 1 2 1 2 3	1			- 1 1 - 2 1 - - 3 1 3 1	1 1 2 3 1 3 1 1 1 5 2 5 4	0	1 1 2 4 4 5 1 2 1 5 2 7 5
PER CENT	7.5	10.0	7.5	0.0	0.0	0.0	25.0	37.5	5.0	0.0	0.0	32.5	75.0	0.0	100.0
ITA ITALY															
25 BRESCIA 33 UDINE	1	-	-	-	-	-	1 0	1	-	_	_	_	0		1 1
TOTAL	1	0	0	0	0	0	1	1	0	0	0	0	1	0	2
LUX LUXEMBOU	R G	24	2												
06 CLERVAUX	1-1		1	_	-	_	1						0		1
TOTAL	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1

						ES (, A 5 E	5					1.10.	92 - 31	.12.92
LOCATION		D О М	EST	I C A	NIM	ALS			WII	_D A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
01 BUDAPEST	_	1	-	-	-	-	1						0		1
02 BARANYA	1	2	2	-	-	-	5	28	-	-	-	-	28	1	33
03 BACS-KISKUN	3	7	4	-	-	-	14	11	-	- 1	-	-	11	1	25
04 BEKES							0	6	-	-	-	-	6	1	6
05 BORSOD-ABAUJ-ZEMPLEN	1	3	-	-	1	-	5	7	1	-	-	-	8	1	13
06 CSONGRAD	1	3	-	-	-	-	4	13	-	1	-	-	14	1	18
07 FEJER	3	3	1	-	-	-	7	37	-	- 1	-	-	37	I	44
08 GYOER-SOPRON	-	1	-	-	_		1	9	-	- 1	-	-	9	I	10
09 HAJDU-BIHAR	-	4	-	1 -	_	-	4	10	-	-	-	-	10	ı	14
10 HEVES	-	1	1	_	-	-	2	2	-	-	_	-	2	1	4
11 KOMAROM	1	2	-	-	-	-	3	14	-	-	-	1	15	1	18
12 NOGRAD	_	1	_	-	_	-	1	3	_	- 1	_	-	3	1	4
13 PEST	1	3		-	-	-	4	23	-	-	-		23	1	27
14 SOMOGY	-	4	2	-	-	2-7	6	20	-	-	2	1-	22	1	28
15 SZABOLCS-SZATMAR				1	1		0	5	-	-	_	-	5	1	5
16 SZOLNOK	_	1	1	_	-	-	2	4	-	-	-	-	4	I	6
17 TOLNA	_	4	-	-	-	-	4	21	-	- 1	-	-	21	1	25
18 VAS	-	2	-	-	-	-	2	20	-	-	-	-	20	1	22
19 VESZPREM		5	1	1	-	-	6	24	-	- 1	-	-	24		30
20 ZALA							0	22	-	-	-	-	22		22
TOTAL	11	47	12	0	1	0	71	279	1	1	2	1	284	0	355
PER CENT	3.1	13.2	3.4	0.0	0.3	0.0	20.0	78.6	0.3	0.3	0.6	0.3	во.о	0.0	100.0

LTU LITHUAP	AIA			į	RABI	ES (CASE	s					1.10.	92 - 31	.12.92
LOCATION		о о м	EST	I C A	NIM	ALS			WII	D A	NIM.	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	HUMAN CASES	TOTAL
34 Anyksciu	_	_	1	-	-	-	1						0		1
36 Birzu	-	1	-	-	-	-	1						0		1
41 Viniaus	1	-	2	-	-	-	3	3		::	-	-	3		6
45 Ignalinos							0	_	1		-	-	1		1
49 Kaisiadoriu	-	1	-	-	-	_	1						0		1
52 Kauno							0	1	-	-	-	-	1		1
56 Kredingos	-	-	3	-	-	-	3						0		3
57 Kubiskio	- 1	1	-	1 -	-	-	1						0		1
62 Moletu		-	1	1	7-1	-	2						0		2
66 Panevezio	-	-	1	_	-	-	1	_		1	-	-	1	}	5
68 Plunges	-	-	1	-	-	-	1	1	1			1	0		1
71 Radviliskio	-	1	1	_	-	-	2	1	-	- 1	-	-	1	1	3
73 Rokiskio							0	-	_	-	1	-	1		1
81 Ukmerges	1	-	-	-	-	-	1		1				0		1
82 Utenos							0	1	-	1	-	-	2		2
85 Salcininku	-	-	1	-	-	-	1						0	1	1
88 Silutes	1	-	-	-	_	-	1		1				0		1
89 Sirvintu	1	-	1			-	2	_	_	1	-	-	1	1	3
94 Jurbarko	-	1	-	1 -	-	-	1	1		-	-	_	1		2
99 no Location							0						0	1	1
TOTAL	4	5	12	1	0	0	22	7	1	3	1	0	12	1	35
PER CENT	11.4	14.3	34.3	2.9	0.0	0.0	62.9	20.0	2.9	8.6	2.9	0.0	34.3	2.9	100.0

LVA LATVIA				1	RABI	ES (CASE	S					1.10.	92 - 31	.12.92
LOCATION		D O M	EST	I C A	NIM	ALS			WII	_ D A	NIM	ALS			
	DOG	CAT	CATTLE	HORSE	SHEEP	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
02 Alukana							0	-	-	-	-	1	1		1
05 Cesis	1 1		1	l	1		0	1	-	-	-	-	1		1
07 Dobele	1 1			1		1	0	1	-	-	_	-	1		1
08 Gulbene	1 1					1	0	-	-	-	-	1	1		1
ii Kraslava	1 1					1	0	-	-	-	-	1	1		1
13 Liepaja	1 1	-	-	_	-	-	1	1	-	_	-	-	1	1	2
16 Madona	1 1		1	1	1	1	0	1	-	-	_	_	1	1	1
17 Ogre	3	-	-	1-	-	-	3	1	1	_	-	1	3		6
18 Preili	- 1	1	-	-	-	-	1	-	_	-	-	1	1		2
19 Rezekne			1			1	0	1	-	-	-	-	1		1
20 Riga	1 1		1		1	1	0	2	-	-	-	3	5		5
21 Saldus	-	_	1	_	-	-	1					1	0		1
22 Talsi	1 1		İ		1	1	0	1	-	-	-	-	1		1
23 Tukums	-	1	-	-	-	-	1						0		1
TOTAL	4	2	1	0	0	0	7	9	1	0	0	8	18	0	25
PER CENT	16.0	8.0	4.0	0.0	0.0	0.0	28.0	36.0	4.0	0.0	0.0	32.0	72.0	0.0	100.0

POL POLAND					RABI	ES	CASE	s					1.10.	92 - 31	.12.92
LOCATION		D O M	EST	I C A	NIM	ALS			WI	LD A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
01 WARSZAWA	3	1	-	-	-	_	4	9	-	2	1	_	12		16
03 BIALA PODLASKA	-	1	-	_	-	-	1	8	-	-	_	1	9	1	10
05 BIALYSTOK	- 1	_	13	-	-	-	13	13	-	-	_	2	15	1	28
07 BIELSKO-BIALA	1 1				1	1	0	1	-	1	-	-	2		2
09 BYDGOSZCZ	2	1	2	-	1	-	6	20	-	1	1	9	31	1	37
11 CHELM					1		0	3	_	1	=	_	4	l	4
13 CIECHANOW	1 1	-	3	-		i -	4	9	-	1	-	5	15		19
15 CZESTOCHOWA	2	_	1	-	_	_	3	11	-	_	-	-	11	1	14
17 ELBLAG	1 1	5	15	-	1	-	22	18	-	1	1	14	34	1	56
19 GDANSK	3	4	18	-	_	· -	25	31	1 -	_	1	17	49	1	74
21 GORZOW	-	2	2	-	-	-	4	66	-	1	1	6	74	1	78
23 JELENIA GORA	1	4	1	-	-	_	6	12	-	1	-	-	13	1	19
25 KALISZ	-	2	1	-	_	· ·	3	10	-	-	-	-	10		13
27 KATOWICE	- 1	3	_	-	-	-	3	4	_	_	-	-	4		7
29 KIELCE	- 1	2	-	-	-	_	2	5	-	1	-	1	7	1	9
31 KONIN		1	1	-	-	1	3	18	1	-	-	-	19	1	22
33 KOSZALIN	1	4	2	_	-	_	7	28	1	1	9	12	51		58
35 KRAKOW	-	1	_	-	-	_	1	3	_	-	-	-	3		4
37 KROSNO	1	1	-	-	-	_	1	1	-	-	-	-	1	1	2
39 LEGNICA		1	-	-	-	-	1	23	-	_	-	-	23	1	24
41 LESZNO	- 1	1	1	-	-	-	2	25	1	2	1	-	29		31
43 LUBLIN						1	0	12	-	-	-	1	13		13
45 LOMZA	1 1	6	2	-	-	-	9	15	-	2	-	2	19		28
49 NOWY SACZ	1	_	-	-	-	-	1	13	-	-	-	-	13		14
51 OLSZTYN	2	3	12		1	1-	18	18	1	2	-	6	27		45
53 OPOLE		1	5		-	-	6	23	1 -	-	-	-	23		29

LOCATION		DOM	EST	I C A	NIM	ALS			WIL	D A	N I M	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
55 OSTROLEKA	3	5	2	1	-	-	11	21	-	1	-	-	22		33
57 PILA	3	1		_	-	-	4	25	-	- 1	2	1	28	1	32
59 PIOTRKOW TRYB							0	5	-	- 1	-	-	5	1	
61 PLOCK	1 1						0	2	-	1	-	-	3		3
63 POZNAN	4	6	2	-	-	-	12	63	1	4	8	5	81		93
65 PRZEMYSL	2	3	-	-	-	-	5	11	1	-	-	1	13	1	18
67 RADOM				l	×		0	1	1	- 1	-	-	2	1	1 6
69 RZESZOW						1	0	11	-	-	3	-	14	1	14
71 SIEDLCE	2	5	-	-	-	-	7	25	-	-	-	4	29		36
73 SIERADZ	1	1	-	-	-	-	2	6	1 -	1	-	-	7		5
75 SKIERNIEWICE	3	3	-	-	-	-	6	11	-	1	-	-	12	1	18
77 SLUPSK	2	1	-	-	_	_	3	22	-	1	8	6	37	1	40
79 SUWALKI	1	_	8	_	-	-	9	12	-	1 1	_	5	18		27
81 SZCZECIN	1	3	-	-	-	_	4	56	_	2	5	11	71		75
83 TARNOBRZEG							0	3		-	2	_	5		
85 TARNOW		_	l _	1			0	5	-	- 1	-	_	2	1	1 3
87 TORUN	-	2	7	-	-	_	9	5	-	i	-	3	9		18
89 WALBRZYCH	1	3	5	-	_	_	9	33	_	-	-	-	33		42
91 WLOCLAWEK							0	2	_	-	-	-	2	1	1 4
93 WROCLAW	3	1	8	-	_	-	12	63	-	7	1	1	65	1	7
95 ZAMOSC			7				0 7	2 72	-	1 -	5	2	3 79	1	1 3
97 ZIELONA GORA	-	-	/	-		-	/	/2	-	_	5		/9		86
TOTAL	44	78	118	1	3	1	245	852	7	31	46	115	1051	0	1296
PER CENT	3.4	6.0	9.1	0.1	0.2	0.1	18.9	65.7	0.5	2.4	3.5	8.9	81.1	0.0	100.0

					RABI	ES (CASE	S					1.10.	92 - 31	.12.92
LOCATION		D O M	EST	I C A	NIM	ALS			WII	L D A	N I M	ALS		HUMAN	TOTAL
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
ROM ROMANIA															
16 DIMBOVITA 17 DOLJ 19 GURGIU 20 GORJ 24 IASI	1	1	-	-	-	-	1 0 0 0	1 1 2	=	-	=	-	0 1 1 2		1 1 2 3
26 MEHEDINTI 28 NEAMT 35 TELEORMAN	- 1	=	1 -	=	=	=	0 1 1	-	-	-	-	1	1 0 0		1 1
TOTAL	4	1	1	0	0	0	6	4	0	0	0	1	5	0	11
PER CENT	36.4	9.1	9.1	0.0	0.0	0.0	54.5	36.4	0.0	0.0	0.0	9.1	45.5	0.0	100.0
SVN SLOVENIA 02 BREZICE 11 IDRIJA 19 KRSKO 22 LENDAVA 27 LJUBLJANA SISKA 28 LJUBLJANA VIC RUDNIK 30 LOGATEC 35 MOZIRJE 36 MURSKA SOBOTA 37 NOVA GORICA 38 NOVO MESTO 39 ORMOZ 41 POSTOJNA 45 RAVNE NA KOROSKEM 53 SKOFJA LOKA 55 TOLMIN 60 VRHNIKA							000000000000000000000000000000000000000	124219-1122123742		111111111111111	4		1 2 4 2 1 10 1 1 1 1 3 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		1 2 4 2 1 10 1 1 1 1 3 2 1 2 3 7 5 2
TOTAL	0	0	0	0	0	0	0	54	1	2	1	0	58	0	58
PER CENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.1	1.7	3.4	1.7	0.0	100.0	0.0	100.0

RUS RUSSIAN FEDERATI	ON				RABI	ES (CASE	s					1.10.	92 - 31	.12.92
LOCATION		DOM	EST:	I C A	NIM	ALS			WI	L D A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
08 Pskov Region	5	1	3	-	1-1	-	9	1	-	-	-	-	1		10
09 Bryansk Region							0		1			1	0	1	1
12 Twer Region							0	1	-	-	-	-	1		1
13 Kaluga Region				1	1		0	1	-	-	-	-	1	1	1
15 Moscow Region	1	-	-	-	-	-	1						0	1	1
16 Oryol Region	1	-	-	-	-	-	1	1	-		-	-	1	1	2
19 Tula Region	7500						0	3	-	- 1	-	-	3	1	3
26 Belgorod Region	7	3	4	-	-	-	14	5	-	-	-	-	5	l.	19
27 Voronezh Region	1	1	16	1	-	-	19	2	-	- 1	-	1	3	1	22
28 Kursk Region	5	1	5	-	-	-	11	4	-	-	-	-	4		15
29 Lipetsk Region					1		0	1	-	_	-	-	1	1	1
31 Astrakhan Region	1	1	9	-	-	1-	11		1				0	1	11
32 Volgograd Region	3	_	7	-	1	-	11	2	-	-	-	-	2	1	14
33 Samara Region	1	-	5	1	-	_	7	1	_	-	-	-	1		8
34 Penza Region	4	-	-	-	-	-	4	1	-	-	-	-	1		5
35 Saratov Region	3	3	2	-	-	-	8	7	-	-	-	-	7	1	15
36 Ulyanovsk Region	2	1	2	-	-	-	5	1	-	-	-	-	1	1	6
38 Republic of Tatarstan	-	2	1	-	1-1	-	3	4	-	-	-	-	4	1	7
39 Krasnodar Territory	4	-	_	-	-	-	4	-	-	-	-	1	1	1	5
40 Stavropol Territory	1	-	9	_	-	-	10		1				0	1	10
41 Rostov Region	1	2	2	-	-	-	5		1				0	1	5
42 Orenburg Region	2		4	1	-	1-1	7	2	-	-	-	-	2	1	9
44 Republic of Bashkorto	5	-	29	2	2	1 - 1	38	11	-	-	-	-	11	2	51
46 Kaliningrad Region	-	1	5	-	-	-	6	1	-	-	-	1	2		8
TOTAL	47	16	103	5	3	0	174	49	0	0	0	3	52	4	230
PER CENT	20.4	7.0	44.8	2.2	1.3	0.0	75.7	21.3	0.0	0.0	0.0	1.3	22.6	1.7	100.0

LOCATION		ром	EST:	I C A	NIM	ALS			WI	LD A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
SWI SWITZERLAND AN	LIECHT	ENSTEIN													
01 AARGAU 04 BASEL-STADT 05 BASEL-LAND 06 BERN 17 SOLOTHURN 26 JURA	-	- 1	1	-	· -		0 0 1 0 2	1 5 2 2 3 3	- - - 4 2	1 -	-	=	1 5 3 2 7 5		
TOTAL PER CENT	0.0	3.8	7.7	0.0	0.0	0.0	3 11.5	16 61.5	6 23.1	3.8	0.0	0.0	23 88.5	0.0	100.0
YUG YUGOSLA	VIA														
60 SR SRBIJA 61 SAP VOJVODINA	1 3	- 8	- 2	-	-	=	1 13	1 64	_	-	-	=	1 64		7
TOTAL	4	8	2	0	0	0	14	65	0	0	0	0	65	0	79

TUR TURKEY				3	RABI	ES (CASE	s					1.10.	92 - 31	.12.92
LOCATION		D O M	EST	I C A	NIM	ALS			WI	L D A	NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TOTAL
01 ADANA 02 ADIYAMAN 03 AFYON 06 ANKARA	1 2	1 -	6	=	=	=	3 8 0	_	_	-	-	1	0 0 1		3 8 1
09 AYDIN 10 BALIKESIR 14 BOLU	3 3 4	=	1 -	=	- 3 -	1 -	1 4 7 4						0 0		1 4 7 4
15 BURDUR 16 BURSA 20 DENIZLI 21 DIYARBAKIR	2 2	=	2 -	=	-	=	1 4 2 3	-	-	-	-	1	0 1 0		1 5 2 3
23 ELAZIG 27 GAZIANTEP 31 HATAY 33 ICEL	5 2	1 - -	=	=	=	=	1 5 2						0 0		1 5 2
34 ISTANBUL 37 KASTAMONU 39 KIRKLARELI	1 3 1	=	=	=	1 -	=	1 1 1	-	-	-	_	1	0 0		4 1 1
41 KOCAELI 43 KUETAHYA 45 MANISA 46 KAHRAMANMARAS	2	1 -	- - 1	=	=	-	1 2 1						0 0		1 2 1
47 MARDIN 48 MUGLA 54 SAKARYA	2 1 8	-	- - 2	=	-	=	2 1 10						0 0		1 10
63 SANLIURFA 67 ZONGULDAK 68 AKSARAY 70 KARAMAN 71 KIRIKKALE	2 3 1	-	-	=	1 - -	=	3						0 0		1 2 3 1
TOTAL	53	3	15	0	6	1	78	0	0	0	0	3	3	0	81
PER CENT	65.4	3.7	18.5	0.0	7.4	1.2	96.3	0.0	0.0	0.0	0.0	3.7	3.7	0.0	100.0

6. List of Contributors

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ment	Dr. Bálint Kerekes	Ministry of Agriculture	National Board of Agricul-
	Ministry of Agriculture	Dr. Danuta Serokova	ture
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