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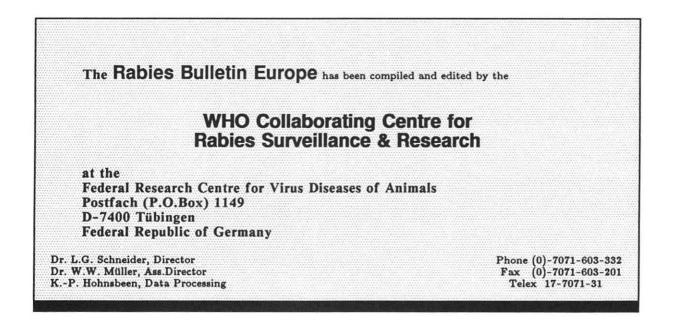
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Dear Readers, Computer age facilitates new techniques. In this and subsequent issues approaches to desk top publishing are made. The aim is to improve the presentation of Text and Tables and, later on to incorporate Figures and Graphics. We apologize if the publication might be slightly delayed due to these efforts. The Editors

1. Introduction

This Bulletin describes the reported rabies cases in Europe for Quarter 4, 1989, subsequently referred to as "This Quarter".

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

In SECTION 3 (3.1-3.27) the situation for individual countries is described. Data for the European part of the Union of Soviet Socialist Republics in the 3rd and 4th quarter 1989 have not yet arrived, the first two quarters are included in the summary presentations.

In the Miscellaneous SEC-TION under 4.1 an article on bat rabies surveillance in Europe is given. Articles 4.2 and 4.3 are reports on an imported human rabies case in Yugoslavia and an imported dog rabies case in Milan/Italy respectively. A note on urban fox population increase and spread of rabies in the north of France is commented on under 4.4. The rabies case data are tabulated for the fourth quarter 1989 in SECTION 5.

SECTION 6 lists the official contributors to the BULLE-TIN.

The geographical distribution of rabies cases in Europe for "This Quarter" is shown on maps of Europe and Turkey in the ANNEX.

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2. Summary of Rabies in Europe

The following summarizes Rabies in Europe, Fourth Quarter 1989 and comments on rabies developments and rabies trends in 1989.

Fourth Quarter 1989

During "This Quarter", 5780 rabies cases were reported in Europe. Of these were 4431 cases in wild animals (76.7% of total) and 1349 in domestic animals. Of the cases in wild animals 3958 (68.5% of total) were foxes, 1 wolf, 58 raccoon dogs, 64 badgers, 153 other mustelids, 1 raccoon, 180 deer, 6 wild boars, 2 hedgehogs, 5 bats, 2 house mice and 1 hamster. Of the 1349 domestic animals 197 were dogs (of which 111 - 56% of all dogs were reported from Turkey, a country with dog-mediated rabies), 283 cats, 546 cattle, 263 sheep, 20 goats, 31 horses, 5 pigs, 3 other domesticated carnivores and 1 domesticated rabbit. These data are summarized in Table 1/Section 5. Table 4/Section 5 lists other animal species, less frequently involved in rabies.

Rabies-free countries in Europe participating in the surveillance were: Bulgaria, Greece, Iceland, Ireland, Norway, Portugal, Sweden and the United Kingdom of Britain and Northern Ireland. There were no cases reported from Denmark and Finland, but their last indigenously acquired case was recorded less than two years ago.

Bat rabies was reported from the Netherlands (4 cases) and France (1 case).

There was no human rabies case reported during the said period.

Comments on Developments and Trends in 1989

Rabies Data summarizing the year 1989 can be found in Tables 2, 3 and 5 of SECTION 5.

The number of rabies cases in 1989 totals 22616 (except for the 2 missing quarters of the Union of Soviet Socialist Republics). In 1988 there were 16078 rabies cases reported not including the Soviet Union (SSR).

The four quarters of 1989 compare as follows:

1st quarter	7455
2nd quarter	4845
3rd quarter	4536
4th quarter	5780
Hin quarter	5700

Wildlife or fox-mediated Rabies. The wildlife rabies epizootic of central Europe has mainly the red fox as reservoir and this is also the animal that passes the infection on to other animals (wild and domestic). The epidemiological situation undergoes changes according to the density of the fox population or while moving into new areas. Nevertheless the front wave of the epizootic in Europe has not much changed since 1982 and additionally, several areas have become rabies-free due to efforts in controlling the disease by oral vaccination.

In 1989 there has been a quite often drastic increase of cases in Europe (Austria, Belgium, Czechoslovakia, German Democratic Republic, Federal Republic of Germany, France, Luxembourg, Poland and Yugoslavia). This could be due to the generally noticed fact of very high fox populations and might be caused by two consecutive mild winters and high rodent populations.

Hungary, the Netherlands, Romania, Spain and Switzerland (though registering a new outbreak in the north of the country) had little changes compared to the previous year.

Finland, which was reinfected after many years in 1988 registered the last cases in February 1989 after a very efficient effort to eliminate the rabies focus by means of oral vaccination of foxes and raccoon dogs. Italy, reinfected in 1988 from the Yugoslavian border used the same strategy and seems close to become rabies-free again.

Urban or Dog-mediated

Rabies. There is only one country in Europe showing a clear picture of urban rabies: Turkey. The number of cases has declined since 1981.

Bat Rabies.

Bat rabies continues mainly in areas without terrestrial rabies. Cases are declining since 1987. Seven countries reported bat rabies in 1989 - the Netherlands (22), the Federal Republic of Germany (9), Spain (5), France (2), Denmark, German Democratic Republic and Czechoslovakia 1 case each.

Human Rabies.

There was one imported case each reported in 1989 in Czechoslovakia and Yugoslavia and there were 5 indigenously acquired cases in the Union of Soviet Socialist Republics (in two quarters).

3. Rabies in Individual Countries

3.1 Austria AUT

by Helmut Schnabl

During "This Quarter", 610 rabies cases in animals were registered. This amounted to an increase of 107% compared to the third quarter 1989 (295 animals) and an increase of 86% compared to the fourth quarter 1988 (328 animals). Of 589 rabid wild animals (97%) of total) 519 were foxes, 13 badgers, 3 polecats, 1 was a large weasel, 31 were stone martens and 22 roe deer; of 21 rabid domestic animals (3% of total) 3 were dogs, 10 cats, 2 cattle, 5 sheep and 1 was a horse.

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

Burgenland: all the Bezirke except Rust

Kärnten: Bezirke St.Veit/ Glan, Völkermarkt, Wolfsberg <u>Niederösterreich:</u> Krems-Stadt, Gmünd, Horn, Krems-Land, Neunkirchen, Melk, Wiener Neustadt, Zwettl <u>Oberösterreich:</u> Braunau/Inn, Freistadt, Gmunden, Grieskirchen, Kirchdorf/Krems, Perg, Ried/Innkreis, Wels-Land, Vöcklabruck

Salzburg: Salzburg Umgebung and Tamsweg <u>Steiermark:</u> Bruck/Mur, Fürstenfeld, Graz/Umgebung, Hartberg, Leoben, Liezen, Mürzzuschlag, Murau, Rad-

Free of rabies were the Bundesländer <u>Wien</u>, <u>Vorarlberg</u> and <u>Tirol</u>.

kersburg, Voitsberg, Weiz

Summary 1989

17958 samples suspected of being rabid were examined in 1989 nearly 20% more than during the previous year (15132 samples).

1890 animals were diagnosed rabid in 1989, 6% more than during 1988 (1786 cases).

Of the 1831 rabid wild animals 1618 were foxes (1988: 1512 foxes), 68 badgers (78), 84 stone martens (36), 54 roe deer (65), 5 polecats (7), 1 boar and 1 large weasel (1988 1 fallow deer and 1 chamois). Of 59 rabid domestic animals were 5 dogs (1988 - 5 dogs as well), 34 cats (15), 12 cattle (46), 7 sheep (17), 1 horse (1988 - 1 pig and 1 goat).

3.2 Belgium BEL

by J. Tambeur

232 rabies cases were confirmed during "This Quarter" in 186 localities of the provinces Hainaut, Liége, Luxembourg and Namur. Of these were 121 cases in domestic animals (2 dogs, 10 cats, 81 cattle, 4 horses, 23 small ruminants and 1 pig) and 111 cases in wild animals (104 foxes, 4 mustelids and 3 roe deer).

There was an increase of cases by 9.5% compared to the previous quarter and by 5.5% compared to the fourth quarter 1988. However, there was a decrease of cases by 15.5% in foxes as compared to the fourth quarter 1988.

There was a total of 842 cases

in 1989, an increase of 64% compared to the previous year. That was due to a great number of cases in spring and in autumn.

The oral vaccination of foxes was carried out during autumn 1989 and is going to be repeated in spring and autumn 1990 covering each time the total infected area of the country which amounts to 10200 km².

3.3	Bulgaria	BUL

The country remained rabiesfree.

3.4 Czechoslovakia CZE

by M. Olach and J. Neumann

During "This Quarter" 338 cases of rabies were diagnosed on the territory of Czechoslovakia. Of these 312 occurred in wildlife (92.3%) and 26 in domestic animals (7.7%). Of the total number of wild animals the disease was found in 287 foxes (92%), 6 badgers (1.9%), 9 martens (2.9%), 8 roe deer (2.6%), 1 wild boar (0.3%) and 1 hamster (0.3%). Of 26 cases in domestic animals 17 occurred in cats, 5 in dogs, 3 in sheep and one case in cattle.

In comparison with the same quarter of 1988 there was a decrease by 78 cases (18.7%).

There was no case of rabies reported in man during "This Quarter".

Summary 1989 The total number of cases reached 1713, i.e. 16.8% more than in 1988 (1580). In Bohemia and Moravia there were 1462 cases (85.4%), in Slovakia 250 (14.6%).

Of the total number of affected animals the disease in wild animals represents 94.5% (1619 cases) and in domestic animals 5.4% (93 cases). The infection was confirmed in 1542 foxes (90%), 13 badgers, 37 martens, 22 female roe deer, 1 raccoon dog, 1 wolf, 1 wild boar, 1 hamster and one bat. Of 93 rabid domestic animals were 61 cats, 20 dogs, 2 cattle, 7 sheep, 1 goat, 1 Vietnamese pig and 1 domestic rabbit.

The highest number of rabies cases was found in the region of West Bohemia (416), followed by North Bohemia(273), Central Bohemia (202), North Moravia (199). The highest incidence was registered in the district of Chomutov (75), Karlovy Vary (68), Tachov (66), Blansko (60), Klatovy (52), Domazlice (46).

The peak incidence was in the 1st quarter in March (241 cases), the lowest incidence was registered in July (87) and in December (85).

At present rabies on the territory of Czechoslovakia is registered in 344 foci involving 86 districts.

Oral imunisation of foxes has been started in three districts of West Bohemia (Klatovy, Domazlice, Tachov) in spring of 1989. This activity is carried out in connection with trans-border immunisation trials in Bavaria and is done in cooperation with the WHO Rabies Centre in Tübingen. 80,000 Tübingen vaccine baits have been distributed in the course of two campaigns in spring and autumn 1989.

by Eric Stougaard

During "This Quarter" no case of rabies was reported.

The country remained rabiesfree in terrestrial animals during 1989. There was only one rabid bat registered.

3.6 Germany, DDR Democratic Republic

by Eberhard Karge

During "This Quarter", 978 rabies cases were diagnosed in the Democratic Republic of Germany, 40 cases less than during the previous quarter but 131 cases more than during the fourth quarter 1988. Of the 978 cases 649 (66.4%) were in wild animals (554 foxes, 10 badgers, 30 stone martens, 3 polecats, 1 raccoon, 47 roe deer, 1 red deer, 2 fallow deer, 1 wild boar) and 329 (33.6%) were in domestic animals (25 dogs, 75 cats, 113 cattle, 111 sheep, 1 goat, 3 horses).

There was a considerable concentration of cases on the right bank of the river Elbe and north of the river Havel, especially in the Bezirk (department) Potsdam. Further concentrations were seen in the south of the country along the border with Czechoslovakia, and here especially in the Bezirk Dresden.

Summary 1989

The annual total for 1989 amounted to 3596 cases, 1206 more than during the previous year.

Only one bat rabies case was reported during the year.

In October 1989 a first trial of oral immunisation of foxes against rabies was started covering an area of ca. 3000 km². It comprises the island of Rügen and 4 northern districts (Kreise) along the border with the Federal State of Schleswig-Holstein (DEU). SAD type vaccine was developed in the German Democratic Republic which meets WHO requirements. 15-20 vaccine baits per km² were distributed by hunters voluntarily.

3.7 Germany, DEU Federal Republic

by Winfried W. Müller

4th Quarter 1989

A total of 888 rabies cases was reported during "This Quarter", 294 cases more than during the previous quarter and 35 less than during the fourth quarter 1988. 84.1% of the cases were in wild animals (639 foxes, 20 badgers, 29 stone martens, 53 roe deer, 1 red deer, 3 fallow deer, 2 wild boar), 15.9% in domestic animals (2 dogs, 25 cats, 7 horses, 71 cattle, 33 sheep, 3 goats).

Close to 50% of all cases occurred in the Bundesland (federal state) Hessen. The Bundesländer Hessen, Rheinland-Pfalz and Baden-Württemberg experienced a substantial increase to the previous quarter. All other Bundesländer remained stable.

Summary 1989

The annual total amounted to 3228 cases showing an increase of 600 cases (22.8% compared to 1988.

There were 9 bat rabies cases in 1989; all identified bats were <u>Eptesicus serotinus</u>. Seven of them were located as previously in the coastal regions of North and Baltic Sea but three <u>Eptesicus</u> <u>serotinus</u> were diagnosed in Berlin-West.

Further investigations of 13 <u>Myotis daubentoni</u>, 8 <u>Eptesi-</u> <u>cus serotinus</u> and 1 <u>Plecotus</u> <u>auritus</u> in Berlin-West (from 12.7.89 to 12.9.89) revealed negative results.

The field trial of oral vaccination of foxes against rabies was continued. Though with little success in Hessen, in 5 Bundesländer (Niedersachsen, Nordrhein-Westfalen, Rheinland-Pfalz, Baden-Württemberg and Bayern) a 76% reduction of rabies cases was achieved when compared with 1983, the start of the trial. Many areas have become rabies-free.

In Schleswig-Holstein a cordon vaccination successfully withstood a reinfection at the border to the German Democratic Republic where an outbreak occurred with great tendency to spread.

Some of the set-backs of the trial in 1989 might be due to a high fox population caused by two consecutive mild winters, and high rodent populations.

Bait delivery by single engine aircraft has successfully been tried at various places in Germany since 1987. Results on seroconversion and bait uptake in foxes were quite encouraging, and at least equal to hand distribution. Air-baited areas were freed and kept free from rabies. Therefore air-borne baiting will probably be <u>t h e</u> method of choice in future.

* * * * *

3.8 Finland FIN

by Bengt Westerling

During "This Quarter" there were no cases of rabies detected in Finland.

During the said period the brains of 390 animals were examined for rabies by immunofluorescence; among them 8 dogs, 16 cats, 251 raccoon dogs, 87 foxes and 21 other predators of various species.

Summary 1989

In 1989, rabies was diagnosed in 4 raccoon dogs and 2 foxes - the last case on the 16th of February.

From the whole country 1290 animals were examined for rabies by direct immunofluorescence on brain tissue, among them 62 dogs, 137 cats, 246 foxes, 629 raccoon dogs, 55 badgers and 83 predators of other species.

The field trial on oral immunization of raccoon dogs and foxes with Tübingen baits, which was started in 1988, was continued. In mid-April 119,100 baits were distributed over an approx. 8000 km² large area, of which 500 km² were baited by air.

The surveillance results indicate a seroconversion rate of >70% in adult raccoon dogs and foxes but only < 20% of the cubs born the same spring were proven seropositive. This in spite of a high incidence of tetracycline deposition in jaw bones and teeth. As the latter constitute a majority of the summer population, the time of year chosen for the bait distribution was too early in order to produce a satisfactory immunity level in the total population.

In late September a third distribution campaign was executed, covering the 1700 km² large area estimated to have been infected. 30,000 Tübingen baits were distributed: 22,000 by air and 8,000 by local hunters over 1200 km² and 500 km² respectively. For the time being no definite results can be presented.

Of the animals examined during 1989, 366 raccoon dogs, 125 foxes and 44 badgers emanated from the field trial area, which constitutes about 6.3 animals per 100 km².



by Jean Blancou

1080 rabies cases were registered during "This Quarter", 138 cases more than during the previous quarter. 792 cases were noted in the fox (73.3%), 47 in other wild animals and 241 in domestic animals (11 dogs, 38 cats, 88 cattle, 91 small ruminants, 12 horses, 1 rabbit).

The départements registering the greatest number of cases during "This Quarter" were Nièvre (150 cases) and Oise (116 cases).

A general tendency was seen during "This Quarter" in-asmuch as rabies progressed towards west in the départements Seine-Maritime and Eure.

The rabies totals in 1989 amounted to 4214 cases.

3.10	Greece	GRE
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by A. Saravanos The country remained rabiesfree.

3.11 Hungary HUN 3.14 Italy ITA with EF

by Lazlo Koltai

During "This Quarter", 349 rabies cases were diagnosed in Hungary, 23 cases less than during the same period last year (372). 81% of all the cases were in foxes (87.4% in 4/88).

The most infected Komitate (provinces) were the following: Somogy (49 cases), Fejér (31), Borsod-Abanj-Zemplén (29) and Bacs-Kiskun (29).

The obligatory vaccination of dogs was still carried out during the fourth quarter. The number of dogs vaccinated in 1989 came to 1,499,561, 4.8% more than during the previous year.

Summary 1989

The total number of rabies cases in 1989 amounted to 1061 (1988 = 1176). Of these were 857 cases in wild animals (286 foxes, 1 badger, 2 stone martens, 1 pine marten, 3 polecats, 8 roe deer, 1 wild boar, 1 hedgehog) and 204 in domestic animals (61 dogs, 79 cats, 52 cattle, 7 sheep, 1 goat, 1 pig).

3.12	Iceland	ICE
3.12	Icelanu	ICL

The country remained rabiesfree.

3.13	Ireland	IRE

The country remained rabiesfree.

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by Santino Prosperi

During "This Quarter" only 2 rabies cases were diagnosed: one in a badger in the Gorizia province, the other in a dog in Milano that was imported from the Ivory Coast; this case is described separately (see under 4.3 of this BULLETIN).

The oral vaccination program for foxes was carried out as planned in the provinces of Trieste, Gorizia and Udine.

Summary 1989

During 1989, rabies surveillance was carried out in the Alpine Regions as follows: 1) 315 wild animals (302 foxes) and 110 domestic animals were examined in Piemonte, Valle d'Aosta and Liguria; all of them were negative. 2) 905 wild animals (865 fo-

2) 905 wild animals (805 foxes) and 252 domestic animals were examined in Lombardia; one dog imported from Ivory Coast was positive.

3) 3285 wild animals (2777 foxes) and 349 domestic animals were examined in Trentino Alto Adige, Veneto and Friuli Venezia Giulia; 49 foxes, 1 roe-deer, 4 badgers were positive.

During the period August-December of 1989 only one case of rabies in a badger was reported in the Friuli Venezia Giulia region. This indicates that the outbreak along the Italian-Yugoslavian border starting one year ago seems to come under control following three campaignes of oral fox vaccinations.

Additionally, an Ordinance of the Ministry of Health on February 25, 1989 has effected the compulsory vaccination of dogs, sheep, goats and equines of that region with ERA vaccine.

3.15 Luxembourg LUX

by Joseph Kremer

During "This Quarter", rabies continued to be on the increase in the north and the centre of the country. There was a total of 79 rabies cases during the prevailing quarter.

Of these were 45 in domestic animals (38 cattle, 4 small ruminants, 1 dog and 2 cats) and 34 in wild animals (32 foxes, 2 stone martens). Only the south of the country

was spared by the disease.

Samples investigated with negative results were: 17 foxes, 3 stone martens, 2 roedeer.

Summary 1989

In 1989 there was a total of 139 rabies cases as compared to only 4 cases during the previous year.

The following animals were affected by the disease in 1989:

Domestic Animals

56 cattle, 7 sheep, 3 cats, 1 dog

Wild Animals 66 foxes, 3 stone martens,

2 roe-deer, 1 badger.

Due to the deterioration of the rabies situation the Department of Veterinary Services of Luxembourg considers as measure of control two oral vaccination campaigns of foxes in 1990. Nevertheless, these vaccinations should be coordinated with the neighbouring countries as only with a common strategy can the disease be controlled successfully.

3.16	Netherlands	NET	3.18	Poland	POL
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by J.H.M. Nieuwenhuijs

During "This Quarter" 135 animals were investigated for rabies. Four bats were found positive.

Summary 1989

In 1989 a total of 1082 animals were investigated (365 adult foxes, 405 young foxes, 6 stone martens, 15 badgers, 4 polecats, 1 mouse weasel, 2 bisons, 1 squirrel, 1 muskrat, 1 black rat, 1 house mouse, 1 owl, 248 bats, 7 dogs, 18 cats, 2 cattle, 3 horses, 1 sheep).

All rabies positive animals (22) were bats. Except for one bat, a <u>Myotis dasycneme</u>, the bats belonged to the species <u>Eptesicus serotinus</u>. In comparison with the number of investigated bats in 1988 (525) the number in 1989 (248) has decreased significantly.

The prevalence rate of rabid bats however has not changed (approx.10% of all investigated samples were rabiespositive). Most of the rabid bats were found in the province Noord-Holland. It is remarkable that no rabid bat was located in the province of Friesland, which was the most important province with regard to bat-rabies in 1987. Apart from three cases in Limburg in 1988 it can be stated that bat-rabies seems to remain located to the northern provinces of the Netherlands.

3.17	Norway	NOR	

by Gudbrand Bakken

The country including the Svalbard Islands remained rabies-free.

In 1989 a total of 1891 rabies cases was diagnosed in animals. This is an increase by 24.5% compared to 1988 (1518) and by 12.1% to 1987 (1686 cases).

The disease was predominant in wildlife (78.6% of total cases). Among 1497 rabid wild animals there were 1176 foxes (62.2% of total cases), 151 raccoon dogs (7,9%), 76 roe deer (4%), 35 martens (1,8%), 18 badgers and 31 others (8 different species).

Among 404 rabid domestic animals (21,3%), 172 were from farm animals (9%), 149 cats (7,9%) and 83 dogs (4,4%).

Only one province (there are a total of 49) was rabies free in 1989. It was Tarnow. The highest incidence of the disease was noticed in the following provinces: Bydgoszcz (8% of total cases recorded in the country), Poznan (7,2%), Gdansk (6,9%) and Olsztyn (5,4%).

Rabid foxes were reported from 47 provinces with the highest incidence rate in Poznan (6,9% of rabies cases recorded among foxes in the country), Bydgoszcz (6,8%), Gorzow (6,2%), Szczecin (5,6-%) and Opole (5,6%); and rabid cats from 36 provinces with the highest incidence in Poznan (15,4%); rabid dogs from 28 provinces; rabid farm animals mostly cattle from 26 provinces with the highest incidence in Gdansk (27,9%) and in Bydgoszcz (14,5%); and rabid raccoon dogs from 20 provinces with the highest incidence in Olsztyn (25,1% of rabies cases recorded among raccoon dogs in the country), Suwalki (15,2%), Gdansk (11,2%), Bydgoszcz (9,9%), and Torun (6,6%).

The red fox is still responsible for maintaining the current epidemic of rabies but the raccoon dog is the second species on the list of animals infected with this disease in Poland. The following are the rabies case rates (% of total) for raccoon dogs having been recorded during the years 1986-1989: 5,7%, 5,5%, 8,3%, and 7,9%.

The data collected from two provinces (Suwalki, Olsztyn) where rabid raccoon dogs have been reported for a longer period of time indicate that in 1989 the cases of these animals outnumbered those diagnosed in foxes.

Comparing the development of single animal species involved in the rabies epizootic in 1988 and 1989, an increase of the incidence rate can be noticed among cats (by 71,2%), dogs (by 43,1%), raccoon dogs (by 20,8%) and foxes (by 18.7%).

3.19 Portugal POR

The country remained rabiesfree.

3.20 Romania ROM

by Nicolae Mogos

There were 6 rabies cases registered during "This Quarter" - 2 cats, 3 cattle and 1 fox.

Summary 1989

The total for 1989 amounted to 23 cases - 7 sheep, 5 cattle, 4 cats, 1 dog, 3 foxes and 3 not specified wild animals. The distribution of cases was usually scattered and cases occurred throughout the country.



by Jose Luis de Felipe Gardón

During "This Quarter" the mainland and islands of Spain remained rabies-free in terre-strial animals.

There was one rabid dog reported from Melilla, North Africa.

No case of bat rabies was noted.

In 1989, a total of 6 cases occurred in Spain: 5 bats on the mainland and 1 dog in the Spanish part of North Africa.

3.22 Union of Soviet SSR Socialist Republics

No data received.

2.22	C . I	CIVE
3.23	Sweden	SWE

The country remained rabiesfree.

3.24 Switzerland SWI

by Andreas Kappeler

During "This Quarter", the Swiss Rabies Center received 1083 animals for examination. 10 (0.9%) of these were positive for rabies compared to 29 (4.7% of 621) in the previous quarter and 16 (2.2% of 729) in the fourth quarter of 1988. 8 cases were observed in foxes, 2 in sheep. 6 bats examined with immunofluorescence and i.c.-inoculation into suckling mice revealed no rabies virus (see also 4.1 of Miscellaneous Section).

One rabies case has been observed in the Canton of Neuchatel, close to the French border. The remaining 9 were recorded in northwestern Switzerland. In the eastern part of this area oral vaccination campaigns had taken place only until autumn 1987. After a few cases in winter 1988/89, a serious outbreak occured during the summer months. With two vaccination campaigns in 1989, the number of cases now seems to be decreasing. Unfortunately, in December 1989 another case was recorded in a non-vaccinated part of the Canton of Aargau, 15 km from the nearest case in northwestern Switzerland. In January 1990, an emergency vaccination campaign took place in the area concerned. An even larger surface will be vaccinated in spring 1990.

The two episodes have clearly shown that oral vaccination belts designed to protect rabies free areas should be reasonably deep, especially when there is a high incidence of cases in the area bordering the vaccination zone.

Summary 1989

In spite of the epizootic in northwestern Switzerland with it's 41 cases, the country recorded only 60 rabid animals in 1989. This is the lowest number since the appearence of the disease in 1967. Since 1979, the year after the field trials on oral vaccination

of foxes had started, the number of cases per year has been steadily decreasing.

No bite exposures of humans to proven rabid animals were recorded in the third quarter of 1989. The number of people treated for non-bite exposures is not recorded.

3.25 Turkey TUR

During "This Quarter", 147 rabies cases were reported from Turkey. There were 144 cases in domestic animals: 111 dogs, 5 cats, 22 cattle, 3 small ruminants, 3 horses and 3 cases in wild animals: 1 wolf, 2 house mice. There has been a decrease by 10 cases compared to the previous quarter and there were only 2 cases more than during the fourth quarter 1988.

In 2 provinces, Istanbul and Zonguldak, 16 and 14 cases were reported, all other provinces reported less than 10 cases.

Summary 1989

The annual figure for 1989 amounts to 584 cases, thus, Turkey continues to report an annual figure lower than the previous year starting in 1981 with 2260 cases.

Turkey stands for a country in Europe with typical urban or **dog-mediated rabies**: 99% of all affected animals in 1989 were domestic animals.

The four provinces mostly affected in 1989 were Istanbul, Izmir, Sakarya and Samsun with 88, 41, 39 and 36 reported cases respectively.

All other infected provinces reported less than 30 cases.

3.26 United Kingdom UNK

by A.D. Hayward

The country remained rabiesfree during "This Quarter".

Surveillance during 3rd and 4th Quarter 1989:

Eight cases of suspected rabies in native animals were investigated during the third and fourth quarters of 1989. These involved 4 dogs, 2 foxes, a cat and a goat. Humans were bitten or scratched in three of these incidents, in these cases and two others, laboratory 5

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tion accommodation, and two by the diagnostic inquiry carried out by veterinary staff. A further 74 brains of animals that died while in quarantine during this period were examined with negative results.

Bats 1989

Between July and December 1989, 98 bat carcasses were presented for rabies tests, this brought the total of bats submitted during 1989 to 152 specimens, of which 12 could not be tested because of their condition. The 140 bats tested identified as:

Pipistrellus pipistrellus 66 25 **Plecotus** auritus Eptesicus serotinus Nyctalus noctula Myotis natterii Pipistrelle nathusii Myotis daubentoni Myotis mystacinus Rhinolophus hipposideros Awaiting identification 31

All were negative for rabies

Total Investigations 1989:

A) Suspected Rabies Incidents Outside Quarantine

7 dogs, 4 foxes, 3 cats, 1 goat = Total 15

Negative results obtained after:

i) Laboratory examination of samples 11

ii) Veterinary examination3

iii) Observation in isolation premises

B) Suspected Rabies in Quarantine Premises - None.

C) Examination of Animals That Died in Quarantine

The brains of 69 dogs, 63 cats, 3 meerkats, 2 cynomologus monkeys and 1 pine marten that died while in quarantinewere examined for rabies with negative results.

YUG 3.27 Yugoslavia

360 cases of rabies were reported in Yugoslavia during "This Ouarter" were in foxes (95% of total), 2 in badgers, 3 in stone martens, 1 in a roedeer, and 12 in domestic animals (4 dogs, 4 cats, 1 bovine, 1 horse, 2 sheep).

Most of the cases occurred in Croatia (201 cases), followed by Slovenia (122), Vojvodina (23) and Bosnia and Hercegovina (14).

While in previous quarters of 1989 Slovenia registered most of the rabies cases, the disease now seems to improve here. There have been 3 oral vaccination campaigns of foxes against rabies with the SAD B19 vaccine produced in Tübingen at the WHO Reference Centre for Rabies Surveillance and Research (autumn 1988, spring, autumn 1989) which now may take its effect.

In 1989 there was a total of 1410 rabies cases, an increase of 10.7% compared to 1988 (1273 cases).



Figure: Nyctalus noctula / Photo by E.Kulzer

4. MISCELLANEOUS ARTICLES

4.1 Bat Rabies Surveillance in Europe

by Andreas Kappeler

So far Switzerland was lucky that it had not been struck by bat rabies. Nevertheless, there is considerable concern about the problem especially among bat protectionists, who have made enormous efforts to polish up the image of bats. The appearance of rabies in these highly endangered mammals now threatens to ruin the bat promotion work that has

been done over the recent years.

While preparing for the eventuality of a first bat rabies case in Switzerland, we found that precise information on the species and the numbers of individuals tested for rabies so far is scarce at least for some European countries. The compilation of all the data available from the individual

countries, reports and overviews published in RABIES **BULLETIN EUROPE 1985-**1989 and from JUDES 1987¹ results in tables 1 and 2. We are aware of the possibility of errors, due to our misinterpretation of data presented in the references mentioned above and would highly appreciate any corrections.

Table 1: Minimum Number of Bats examined for Rabies in Europe, 1954 - 1989 Minimum number of... found pos." Country Year or Minimum number of ... examined

1	Period	Species/Individuals/E.serotinus			Species/Individuals/ E.serotinus		
Czechoslovakia	1989	1	1	?	1	1	?
Denmark	1985-89	12	1058	663	3	164	160
Fed.Rep.of Germany	1954-84	2	6	1	2	6	1
	1985-89	11 > 11	419	121	4 >5	39	26
Finland	1985-86	5	183	0	- '	-	-

Total		23	4705	1172	9	379	333
Yugoslavia	1954	1	3	?	1	3	0
Turkey	1956	1	1	?	1	1	0
Switzerland ⁺⁺	1967-89	1	262	8	-	-	-
	1985	1 >3	274	0	1 >3	1	0
Soviet Soc.Rep.	1964, 1977	2	2	1	2	2	1
Spain	1985-89	9	93	7	1	7	5
	1985	1 >1	1	1	1 >1	1	1
Poland	1972	1	1	?	1	1	?
Netherlands	1987-89	8	1991	350	2	147	135 ?
Great Britain	1988-89	12	406	16	-	-	-
	1985-89	1 >1	3	1	1 >1	3	1
German Dem.Republic		1	1	1	1	1	1
France ⁺	1989	2	2	2	2	2	2
Finland	1985-86	5	183	0	-	-	-
	1985-89	11 >11	419	121	4 >5	39	26

* The species of (almost) all animals tested is known/published for the following countries only:Denmark (1 exception), Finland, France, Spain (3 exc.), Switzerland, Turkey, Yugoslavia.
 ** The species of all positives is known/published for: Denmark (1 exception), France, Netherlands (8 exc.), USSR, Turkey, Yugoslavia.
 + In France 1 case was recorded in September and 1 in October 1989.
 ++ Data for Switzerland include all animals examined up to 31/12/89.

¹Jüdes, U. 1987. Zum Problem d. Tollwut b. Fledermäusen. Myotis 25:41-62

 Table 2:
 Bat Species found positive for Rabies in Europe, 1954 - Sept. 1989

1 TUR 1956: 1 Rhinolophus ferrumequinum Eptesicus serotinus 333 DEN 160, FRA 2, DEU 27, DDR 2, NET 135?, POL 1, SPA 5, SSR 1 DEN 1986: 1, NET 1987, 1989: 4 Myotis dasycneme 5 Myotis daubentonii 4 DEN 1986: 2, DEU 1986: 1, SSR 1985: 1 Myotis myotis 1 DEU 1973: 1 YUG 1954: 3 Nyctalus noctula 3 Pipistrellus nathusii DEU 1986: 1 1 Pipistrellus pipistrellus 2 DEU 1987: 2 Vespertilio murinus 1 SSR 1985: 1 28 CZE 1, DEN 1, DEU 13, DDR 2, NET 8, POL 1, SPA 2 unknown / not published

Table 3 lists all bat species that can be found in Switzerland, together with the numbers of individuals examined. The Swiss Rabies Centre receives most of the animals from bat protectionists. The carcasses, as well as animals sent in by third parties, are always given back to bat sci-

entists for further investigations. They, in return, help with species determination.

To know more about the prevalence of the European bat lyssavirus in different species and on bat rabies epidemiology in general, information exchange is needed. The availability of appropriate data will provide invaluable arguments for discussions on bat protection and will help to avoid unnecessary and unjustified control measures in bat populations. Countries that already face bat rabies will certainly agree on that. All the others - like Switzerland - will be very grateful to have reliable information at hand, when it's their turn to find a first bat rabies case. We therefore suggest, that all countries contributing to the Rabies Bulletin Europe report on numbers and species of bats examined on a regular (e.g. yearly) basis.

SPECIES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ANIMALS					100000000
	1967-84	1985	1986	1987	1988	1989	TOT
Rhinolophus ferrumequinum							
Rhinolophus hipposideros							
Barbastella barbastellus							
Eptesicus nilsonii			1				1
Eptesicus serotinus			3	2	2	1	8 3
Hypsugo savii (Pipistrellus	savii)				2	1	3
Miniopterus schreibersii							
Myotis bechsteinii			1			1	2
Myotis blythi							-
Myotis brandtii							
Myotis capaccinii							
Myotis dasycneme							
Myotis daubentonii			1	2		3	6
Ayotis emarginatus							
Myotis myotis		1	7	2	9	1	20
Myotis mystacinus			7		9 7	2	11
Myotis nattereri						1	1
Nyctalus lasiopterus							
Nyctalus leisleri			2		2		4
Nyctalus noctula	5		19	6	5	8	43
Pipistrellus kuhli						2	2
Pipistrellus nathulii	1		8	4	9	8	30
Pipistrellus pipistrellus		1	18	7	28	10	64
Pipistrellus spec.			2				2
Plecotus auritus	1		9	3	17	2	32
Plecotus austriacus				1	1		2
/espertilio murinus			1	4			5
adarida tenniotis							
unknown	26						26
TOTAL	33	2	74	31	82	40	262

 Table 3:
 Bat Species in Switzerland

 Number of Animals examined for Rabies, 1967-1989

Most of the bats were kindly provided/or determined by (in alphabetical order) J.D.and M. Blant, J.Gebhard, M.Haffner, A.Keller, M.Ruedi, C.Ryser, H.P.Stutz, K.Zbinden and P.Zingg.

4.2 Imported Human Rabies Case in Yugoslavia

by Milos Petrovic, Pasteur-Institute, Novi Sad, Yugoslavia+)

An eight year old boy died of rabies at the Clinic for Infectious Diseases "Dr. Fran Mihaljevic" in Zagreb on August the 30th, 1989.

The boy lived in the community of Gracanica in S.R. Bosnia and Herzegovina. During summer holidays he visited his father who was temporarily working in Tamezgida in Algeria. On 22nd of July, 1989, the boy was attacked by a stray dog and scratched over the nose and above the eye. He was taken to the nearest hospital where he received antitetanus treatment and injections of unknown substance against purulence for six consecutive days. Antirabies treatment was not applied. The dog died six days

after the bite. After returning to Yugoslavia on 14th of August 1989, first symptoms of rabies appeared on 22nd of August 1989. He vomited twice, and had fever and weakness. On 23rd of August 1989, he wasn't able to eat and drink complaining of headache and pain in stomach and legs. The signs of aero- and hydrophobia also appeared on 24th of August 1989 when he was taken to the Clinic of Infectious Diseases in Zagreb with diagnosis of rabies.

On admission he got intensive antioedema therapy and large doses of human rabies immuneglobulin (HRIG) intrathecally and intramuscularly plus interferon intramuscularly with other symptomatic therapy. Because of hydrophobia he was fed by nasal probe. His condition deteriorated with attacks of aggressivity, hallucinations, aero- and hydrophobia in spite of sedation therapy. On 27th of August 1989 after cardiorespiratory arrest he was intubated and put on artificial respiration keeping his vital functions under control until 30th of August 1989 when he died.

The post mortem diagnosis of rabies was confirmed in the Veterinary Institute in Zagreb by fluorescent antibody technique (cerebellum, medula oblongata, Amon's horn) as well as by the mouse inoculation test.

+) SOURCE: Data are from the "Case history file" we got in the Clinic for Infectious Diseases "Dr. Fran Mihaljevic" in Zagreb.

4.3 Imported Dog Rabies Case in Italy

by Maria Tollis¹ and A. Civardi²

On November 28, 1989, the sudden death of a dog -a seven years old female Gordon Setter- reported in Milan six days before, was confirmed as rabies by the Istituto Zooprofilattico sperimentale of Brescia.

The case received special attention not only because of the country of origin of the dog - Ivory Coast- where the animal had lived until last summer before being brought over to Italy by its owner, but especially because the anamnesis revealed that the animal had been regularly vaccinated for rabies over the years.

The most concerning suspicion was that the lack of protection by vaccines was due to infection with a virus strain against which commonly used rabies vaccines are ineffective: it meant that rabies related viruses, such as the Mokola virus for instance, could be present in Ivory Coast as well as in other african countries. It has been largely demonstrated that traditional vaccine cannot induce protection against such rabies virus strains. This hypothesis, if confirmed, carried serious implications, not only because the dog had come into contact with different animals (dogs and cats) and people but especially because the day before dying had bitten a woman who was not subjected to post-exposure treatment until rabies infection was diagnosed in the dog. Nevertheless once rabies was confirmed, post-exposure prophylaxis was also applied to people who might have been exposed

to the virus. Almost all animals which presumably came into contact with the infected dog, were confined to quarantine facilities and all measures of sanitary prophylaxis were strictly adopted in the city of Milan to limit any risk of spreading of the disease.

The circumstances of the death of the animal and subsequent events are described below.

At the beginning of summer 1989, the dog was imported to Italy from the Ivory Coast accompanied with a regular sanitary certificate as requested by Italian authorities.

During the transport the dog stopped in London and was kept there for a 3 days quarantine. Once in Italy, at the end of July, 1989, after being visited by a veterinarian and found in good health, the dog was again vaccinated against rabies with an inactivated vaccine.

The dog was visited for a routine check by the same veterinarian in September, 1989, and again for the last time on November 14, 1989. In both cases the dog was found in optimal conditions to receive routine vaccinations respectivelydistemper-hepatitis, leptospirosis and canine parvovirus). On November 21. 1989 the dog started to show vague symptoms of illness and was brought to a veterinary clinic. Here, fever (40.1°C) and heavy breathing were recorded by the veterinarian who, suspecting a protozoaric

disease, took a blood sample for laboratory analysis. The latter revealed a normal count of red and white blood cells.

Next day the dog suddenly died and was brought to the municipal facilities where routine check revealed abnormal presence of saliva.

Regrettably at this time no tissue or fluid samples were taken for post-mortem examination except for the head which was sent to the Istituto Zooprofilattico Sperimentale of Brescia where rabies was confirmed by direct immunofluorescence on brain impressions.

Immediatly all health control authorities wee alerted and especially the central veterinary laboratory of Istituto Superiore di Sanità in Rome where the virus was isolated, its antigenic composition characterized, and further investigations carried out.

Antigenic characterization of the virus using a short panel of 20 monoclonal antinucleocapsid antibodies specific for rabies and rabies related viruses (kindly provided by the late Dr.T.J. Wiktor - The Wistar Institute Philadelphia) was performed directly on brain impressions for a rapid diagnosis. Later on, once the virus was isolated both on NA and BHK-21 cells after one passage adaptation on suckling mice, the virus was also characterized on cell cultures.

The virus was shown to be a wildtype of rabies serotype 1

virus and referred to as canine biotype (urban or dogmediated rabies). This finding eased the concerns about the possibility, that the dog had been infected by a rabies related virus.

Considering the incubation period of rabies, the country of origin of the dog and the fact that the latter didn't leave the city of Milan after its arrival in Italy, it is likely that the animal might have been exposed to rabies virus in the Ivory Cost.

The question why the dog, despite the repeated vaccinations, was not effectively immunized against rabies, remains unresolved.

This circumstances could be partially explained either by lack of immunological response in the animal or by suboptimal quality or administration of the vaccines.

However, mice immunized with several commercially available inactivated rabies vaccines were satisfactorily protected by an intracerebral challenge with lethal dose of the isolated virus which killed 100% of control animals.

This episode highlights the stringent need for all territorial health institutions to exercise the strictest measures in rabies control; they should include always a very cautious approach by laboratory personnel to suspicious cases, even if apparent circumstances might induce misleadingly to exclude rabies.

¹ Istituto Superiore di Sanita, Lab di Medicina Veterinaria, Roma/Italy Istituto Zooprofilattico Sperimentale, Brescia/Italy

4.4 Foxes adjust to Urban Habitat

by Winfried W. Müller

A note in a German hunting journal refers to the recent extension of rabies in the north of France - Département Yvelines (with Versailles) and the area Ile-de-France. The settlements in the vicinity of Paris are often single houses near great forests. There are many cats, dogs and at times many excursionists. Authorities fear that people may not judge the new situation with rabies adaquately compared to people in areas where the disease

exists far longer.

Additionally, foxes adjust more and more to urban areas. It is estimated that a fox couple needs normally a basis of 500 hectares (5 km^2) to raise their cubs. In urban areas it has been noted that 5 to 6 cubs were raised on 30 hectares.

In 1987 the total costs for rabies control in France amounted to 187 million French Francs. Nevertheless, the increase of bounties to shoot foxes, gasing of fox dens, trapping and poisoning, all measures to reduce fox populations and thus minimize the risk that rabies spreads, have been of little success. Therefore, it is planned now to control rabies by oral vaccination of foxes against rabies at larger scale.

(Taken from: WILD UND HUND, Paul Parey Verlag, Hamburg, <u>92</u>, March 1990, p. 27).

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

TAE	BLE	1
	_	-

EUR EUROPE	4/89			ì	RABI	ES (ASE	S					1.10.	89 - 31	. 12 . 89
LOCATION		о о м	EST	IC A	NIM	ALS			WIL	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
AUT AUSTRIA	з	10	2	1	5	-	21	519	13	35	22	-	589		610
BEL BELGIUM	2	10	81	4	23	1	121	104	-	4	Э	-	111		232
BUL BULGARIA *							0						0		0
CZE CZECHOSLOVAKIA	5	17	1	-	3	-	26	287	6	9	8	2	312		338
DDR GERMAN DEM. REPUBLIC	25	75	113	3	113	-	329	554	10	33	50	2	649		978
DEN DENMARK *							0						0		0
DEU FED.REP. OF GERMANY	2	25	71	7	36	-	141	639	20	29	57	2	747	1	888
FIN FINLAND *							· 0					2.27	0		0
FRA FRANCE	11	38	88	12	91	1	241	792	10	24	11	2	839		1080
GRE GREECE *					1.000		0						0		0
HUN HUNGARY	12	24	19	-	1 1	2	58	286	-	2	Э	-	291	1	349
ICE ICELAND *							0						0		0
IRE IRELAND *							0		1				0		0
ITA ITALY 1)	1	-	-	-	-		1	-	1	-	-	-	1		2
LUX LUXEMBOURG	1	2	38	-	4	-	45	32	-	2	-	-	34		79
NET NETHERLANDS							0	-	-	-	-	4	4	1	4
NOR NORWAY *							0						0		0
POL POLAND	19	71	107	-	-	5	202	394	2	12	25	61	494		696
POR PORTUGAL *							0						0		0
ROM ROMANIA	-	2	3		-	-	5	1	-		-	-	1		6
SPA SPAIN 2)	1	-	-	- 1	- 1	-	1						0	1	1
SSR SOVIET SOCIAL.REP **				1			-						-		-
SWE SWEDEN *							0						0	1	0
SWI SWITZERLAND + LIECHT	-	-	-	- 1	2	-	2	8	-	-	-	-	8		10
TUR TURKEY	111	5	22	3	3	-	144	-	-	-	-	3	3		147
UNK UNITED KINGDOM *							0		1			1	0		0
YUG YUGOSLAVIA	4	4	1	1	2	-	12	342	2	З	1	-	348		360
TOTAL	197	283	546	31	283	9	1349	3958	64	153	180	76	4431	0	5780
PER CENT	3.4	4.9	9.4	0.5	4.9	0.2	23.3	68.5	1.1	2.6	3.1	1.3	76.7	0.0	100.0

* NO CASES.

** NO DATA,

1) 1 DOG IMPORTED FROM IVORY COAST. 2) IN NORTH AFRICA.

4th Quarter: October - December 1989

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TABLE	2
IADLE	~

EUR EUROPE	1989)		a d	RABI	ES (CASE	S					1. 1.	89 - 31	.12.89
LOCATION		о о м	EST		NIM	ALS			WI		NIM	ALS		HUMAN	TOTAL
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	TUTAL
AUT AUSTRIA	5	34	12	1	7	-	59	1618	68	90	54	1	1831		1890
BEL BELGIUM	12	33	163	11	75	1	295	520	8	13	6	-	547		842
BUL BULGARIA *							0						0		0
CZE CZECHOSLOVAKIA 1)	20	61	2	-	8	2	93	1542	13	37	22	5	1619	1	1713
DDR GERMAN DEM. REPUBLIC	136	251	227	8	259	3	884	2364	50	143	140	15	2712		3596
DEN DENMARK							0	-	-	-	-	1	1		1
DEU FED.REP. OF GERMANY	27	78	134	14	107	2	· 362	2491	78	105	176	15	2865		3227
FIN FINLAND							0	2	-	-	-	4	6		6
FRA FRANCE	53	117	198	37	315	4	724	3341	35	80	28	6	3490		4214
GRE GREECE *							0						0		0
HUN HUNGARY	61	79	52	-	8	4	204	840	1	6	8	2	857		1061
ICE ICELAND *							0	1					0		0
IRE IRELAND *							0						0		0
ITA ITALY 2)	1	-	-	-	-	-	1	50	4	-	-	-	54		55
LUX LUXEMBOURG	1	з	56	-	7	-	67	66	1	З	2	-	72		139
NET NETHERLANDS							0		-	-	-	22	22		22
NOR NORWAY *					1		0						0		0
POL POLAND	83	149	160	1	4	7	404	1176	18	51	80	162	1487		1891
POR PORTUGAL *			-		_		0						0		0
ROM ROMANIA	1	4	5	-	7	-	17	З	-	-	-	3	6		23
SPA SPAIN 3)	1	-	-	-		-	1	-	-		-	5	5	-	6
SSR SOVIET SOCIAL.REP **	231	174	547	32	303	24	1311	474	2	7	6	71	560	5	1876
SWE SWEDEN *							0						0		0
SWI SWITZERLAND + LIECHT	-	-	-	-	2	-	2	56	2	-	-	-	58		60
TUR TURKEY	439	31	80	11	14	з	578	-	-	-	-	6	6		584
UNK UNITED KINGDOM *							0	1005			4.5		0		0
YUG YUGOSLAVIA 4)	18	32	10	4	5	2	71	1287	27	11	10	З	1338	1	1410
TOTAL	1089	1046	1646	119	1121	52	5073	15830	307	546	532	321	17536	7	22616
PER CENT	4.8	4.6	7.3	0.5	5.0	0.2	22.4	70.0	1.4	2.4	2.4	1.4	77.5	0.0	100.0

* NO CASES, ** NO DATA FOR 3RD AND 4TH QUARTER, 1) HUMAN CASE ACQUIRED IN VIETNAM, 2) 1 DOG IMPORTED FROM IVORY COAST, 3) 1 DOG IN NORTH AFRICA, 4) HUMAN CASE ACQUIRED IN ALGERIA. page 18

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EUR EUROPE	1989)											1. 1.	89 - 31	. 12 . 89
LOCATION		о о м	EST	IC A	NIM	ALS			WI		NIM	ALS			TOTAL
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	HUMAN CASES	
EUROPE						_								. 1	
TOTAL RABIES CASES	1089	1046	1646	119	1121	52	5073	15830	307	546	532	321	17536	7	22616
						PER CE	NT INVO	LVEMENT	/ COUN	TRY					
FRA FRANCE	4.9	11.2	12.0	31.1	28.1	7.7	14.3	21.1	11.4	14.7	5.3	1.9	19.9		18.6
DDR GERMAN DEM. REPUBLIC	12.5	24.0	13.8	6.7	23.1	5.8	17.4	14.9	16.3	26.2	26.3	4.7	15.5		, 15.9
DEU FED.REP. OF GERMANY	2.5	7.5	8.1	11.8	9.5	3.8	7.1	15.7	25.4	19.2	33.1	4.7	16.3		14.3
POL POLAND	7.6	14.2	9.7	0.8	0.4	13.5	8.0	7.4	5.9	9.3	15.0	50.5	8.5		8.4
AUT AUSTRIA	0.5	з.з	0.7	0.8	0.6	-	1.2	10.2	22.1	16.5	10.2	0.3	10.4		8.4
SSR SOVIET SOCIALIST REP	21.2	16.6	33.2	26.9	27.0	46.2	25.8	э.о	0.7	1.3	1.1	22.1	3.2	71.4	8.3
CZE CZECHOSLOVAKIA	1.8	5.8	0.1		0.7	3.8	1.8	9.7	4.2	6.8	4.1	1.6	9.2	14.3	7.6
YUG YUGOSLAVIA	1.7	3.1	0.6	3.4	0.4	3.8	1.4	8.1	8.8	2.0	1.9	0.9	7.6	14.3	6.2
HUN HUNGARY	5.6	7.6	3.2	-	0.7	7.7	4.0	5.3	0.3	1.1	1.5	0.6	4.9		4.7
BEL BELGIUM	1.1	з.2	9.9	9.2	6.7	1.9	5.8	3.3	2.6	2.4	1.1	-	3.1		3.7
TOTAL FROM 10 COUNTRIES	646	1008	1505	108	1091	49	4407	15653	300	543	530	280	17306	7	21720
EQUAL % TOTAL	59.3	96.4	91.4	90.8	97.3	94.2	86.9	98.9	97.7	99.5	99.6	87.2	98.7	100.0	96.0

TABLE 3: RABIES CASE RATES (% TOTAL) FOR INDIVIDUAL ANIMAL SPECIES AND FOR TOTAL CASES OF 10 EUROPEAN COUNTRIES RANKING HIGHEST IN 1989.

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4th Quarter: October - December 1989

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TABLE 4

EUR EUROPE	4/89			RAB: OTHER	EES C Ranimal	A S E S SPECIES'				1	.10.89 -	31.12.89
LOCATION	OTHER DO	MESTIC	ANIMALS			c	THER WI	LD ANIMALS	3			TOTAL
CODE NAME	OTH.DOM. CARNIVO.	PIG	DOMEST. RABBIT	WOLF	RACOON DOG	RACOON	WILD BOAR	HEDGEHOG	INSECTIV. BAT	HAMSTER	HOUSE MOUSE	TOTAL
BEL BELGIUM	-	1	:	-	-	-	-	-	-	-	-	1
CZE CZECHOSLOVAKIA	-	-	-	-	-	-	1	-	-	1	-	2
DDR GERMAN DEM. REPUBLIC	-	-	-	-	-	1	1	-	-	-	-	2
DEU FED.REP. OF GERMANY	-	-	-	-	-	-	2		-	-	-	2
FRA FRANCE	-	-	1	-	-	-	-	1	1	-	-	з
HUN HUNGARY	-	2	-	-	-	-	-	-	-	-	-	2
NET NETHERLANDS	-	-	-	-	-	-	-	-	4	-	-	4
POL POLAND	з	2	-	=	58	-	2	1	<u>-</u>	-	-	66
TUR TURKEY	-	-	-	1	-	-	-	-	-	-	2	з
TOTAL	з	5	1	1	58	1	6	2	5	1	2	85
PER CENT	3.5	5.9	1.2	1.2	68.2	1.2	7.1	2.4	5.9	1.2	2.4	100.0

4th Quarter: Octobe	r – December 1989
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12.89	8.00	ATOT	4	4	1	18	Ŧ	17	4	10	Ø	55	169	m	n	10	Ø	D	373	100.0
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E S C ANIMAL S		MILD RAOB	4	1	4	ø	1	n	1	4	4	1	4	1	1	1	ı	1	17	4 6
I E S		OTH.WILD CARNIVOR	1	1	ı	1	1	1	1	1	1	1	1	ı	1	1	ı	1	1	6.0
R A B I OTHER		RACOON	1	1	1	N	L	-	1	1	1	<u>'</u>	1	!	'	'	'	1	m	8.0
		ХИХЛ	'	1	1	1	ī	T.	'	Ŧ	1	1	ı	1	1	'	'	1	4	0
	4	DOG RACOON	1	1	4	4	I	I	4	I	ı	I	151	I.	I	ı	I	I.	160	42.9
		MOLE	1	ı	Ŧ	I	I	T	I	I.	ı	ı	1	I	ļ	ı	m	ſ	4	
6	RS	SA3HT0	1	ı	ı	T	I	I	T	T	1	1	1	I	1	24	1	S	26	0.2
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EUR		YATNUOD	AUT	BEL	CZE	HOO	DEN	DEU	FIN	FRA	NUH	NET	POL	MOR	SPA	SSR	HUT.	YUG	TOT.	24

TABLE 5

N AUT AUSTRIA

RABIES CASES

1.10.89 - 31.12.89

LOCATION		DOM	EST	IC 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
101 EISENSTADT - STAD	т						0	1	-	-	1	-	2		2
103 EISENSTADT - LAND							0	20	· · -	1	-		21		21
104 GUESSING							0	15	- 1		-		15	1	15
105 JENNERSDORF							0	2	-	-	-		2		2
106 MATTERSBURG	1 1	1	-	-	-	-	2	27	-	1	-	-	28		30
107 NEUSIEDL AM SEE	1 -						0	2	-	-	-		2		2
108 OBERPULLENDORF							0	2	-	-	-	-	2		2
109 OBERWART	-	1		-	-	- 1	1	8	-	-	-	-	8	1	9
205 SANKT VEIT AN DER	GL 1	1 2	1	-	1	-	3	6	-	-	1	-	7		10
206 SPITTAL AN DER DR.					-		o	1	-	_		-	1		1
208 VOELKERMARKT				2 1			o	5	1	-	-	-	6		6
209 WOLFSBERG		-	_	_	1	_	1	9	-	-	_	-	9		10
301 KREMS AN DER DONA					-	-	ō	1	-	-	_	-	1		1
309 GMUEND	1	-	_	_	з		4	7	-	з	-	_	10		14
311 HORN	1 1	-	-	-	3	-	· o	10	2	1		-	11		11
							ő	20	2	4	1 D.	-	26	1	26
313 KREMS AN DER DONA							1.	20	e -	7	1		28	1	30
B15 MELK		2	-		- 1	-	2		_	<u>_</u>	1	_		1	28
318 NEUNKIRCHEN							0	28	_				28	1	
323 WIENER NEUSTADT-L	AND						0	22		-	-	-	22		22
325 ZWETTL	-	3	-	-	-	-	З	10	-	5	-	-	15		18
404 BRAUNAU AM INN							0	91	-	з	6	-	100		100
406 FREISTADT							0	1	-	-	-	-	1		1
407 GMUNDEN							0	2	-	-	-	-	2		2
408 GRIESKIRCHEN							0	Э		-	-	-	З	1	3
409 KIRCHDORF AN DER	KRE -	-	1	-	-	-	1	1.000					0	1	1
411 PERG		1					0	9	-	-	-	-	9	1	9
412 RIED IM INNKREIS							0	14	-	-	-	-	14		14
417 VOECKLABRUCK							0	59	2	1	5	-	67	1	67
418 WELS-LAND							0	2	-	-	-	-	2	1	2
503 SALZBURG-LAND	-	2	-	-	-	-	2	39	Э	1	Э	-	46		48
505 TAMSWEG							0	1		-	-	-	1		1
502 BRUCK AN DER MUR							0	7	-	-	-		7		7
505 FUERSTENFELD							0	2	-	-	-		2		2
506 GRAZ-LAND							0	2		-	-		2		2
507 HARTBERG							0	8	-	2	-	-	10		10
511 LEOBEN							0	1	-	-		-	1		1
512 LIEZEN							0	6	1	1	-	-	8		8
13 MUERZZUSCHLAG							0	37	2	3	4	-	46		46
514 MURAU							0	1	-	-	-	-	1		1
515 RADKERSBURG	1						0	2	-	-	-	-	2		2
516 VOITSBERG							0	1	-	-	-	-	1		1
517 WEIZ		1	-	1	-	-	2	15	2	2	1	-	20		22
OTAL	3	10	2	1	5	0	21	519	13	35	22	0	589	0	610
PER CENT	0.5	1.6	0.3	0.2	0.8	0.0	3.4	85.1	2.1	5.7	3.6	0.0	96.6	0.0	100.0

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				1	ABI	ES	CASE	S					1.10.	89 - 31	. 12 . 89
LOCATION		DOM	EST	IC A	NIM	ALS			WI		NIM	ALS		HUMAN	TOTAL
CODE NAME	DOG CAT CATTLE HO	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES			
BEL BELGIUM															
HH HAINHAUT							0	1	- 1	-	-	-	1		1
LG LIEGE	2	3	30	1	12	1	49	42	-	1	2		45	1.1	94
LX LUXEMBOURG	-	6	46	2	11	-	65	59	-	3	1	-	63	1	128
NA NAMUR	-	1	5	1	-	-	7	2	-	-	-	-	2		9
TOTAL	2	10	81	4	23	1	121	104	0	4	3	0	111	0	232
PER CENT	0.9	4.3	34.9	1.7	9.9	0.4	52.2	44.8	0.0	1.7	1.3	0.0	47.8	0.0	100.0
02 CAPELLEN 05 MERSCH 06 CLERVAUX 07 DIEKIRCH 08 REDANGE 09 WILTZ 12 GREVENMACHER 13 REMICH			- 23 1 - 14	-	1 2 - 1 -		1 0 26 1 1 16 0 0	1 11 11 5 10 1 2					1 11 1 6 11 1 2		2 1 37 2 7 27 1 27
TOTAL	1	2	38	0	4	0	45	32	0	2	0	0	34	0	79
PER CENT	1.3	2.5	48.1	0.0	5.1	0.0	57.0	40.5	0.0	2.5	0.0	0.0	43.0	0.0	100.0
NET NETHERLA	NDS														
01 DRENTHE 07 NOORD-HOLLAND							0	=	=	-	-	1 3	1 3		1 3
TOTAL	0	0	0	0	0	0	0	0	0	0	0	4	4	0	4

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LOCATION		D O M	EST	IC A	NIM	ALS			WII		NIM	ALS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL		TOTAL
00 DISTRICT OF PRAGUE 01 CENTRAL BOHEMIA 02 SOUTH BOHEMIA	-	1	-	-	-	-	0	18 9	-	1	-	1	0 20 10		21 10
03 WEST BOHEMIA 04 NORTH BOHEMIA 05 EAST BOHEMIA	-	5	-	-	-	-	500	55 38 29	- 1	4	2	=	61 39 30		66 39 30
06 SOUTH MORAVIA 07 NORTH MORAVIA	- 2	2	=	=	1	-	34	46 29	2	- 3	3 3	=	51 35		54
O CZECH SOCIALIST REPUBL	2	9	-	-	2	-	13	224	4	9	8	1	246		259
10 DISTRICT OF BRATISLAV 11 WEST SLOVAKIA 12 CENTRAL SLOVAKIA 13 EAST SLOVAKIA	- 3 -	1 5 2	- - 1		1	-	0 2 8 3	1 16 29 17	2 -			- 1 -	1 17 31 17		1 19 39 20
1 SLOVAC SOCIALIST REPUB	з	8	1	-	1		13	63	2	-	-	1	66		79
TOTAL	5	17	1	0	з	0	26	287	6	9	8	2	312	0	338
PER CENT	1.5	5.0	0.3	0.0	0.9	0.0	7.7	84.9	1.8	2.7	2.4	0.6	92.3	0.0	100.0

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CODE NAME DOG CAT CATTLE HORSE SHEEP GOAT OTHERS TOTAL FOX FOX DAGE OTHER MUSTEL DEER OTHERS TOTAL CATTLE 01 HAUPTSTADT BERLIN 02 COTTBUS 2 5 10 - 5 - 22 44 - 3 2 - 49 03 DRESDEN 2 10 15 2 64 - 93 655 2 2 7 - 76 04 ERFURT 1 1 2 - 3 - 7 30 1 3 11 - 45 05 FRANKFURT/ODER - - - 2 11 - - - 11 2 3 11 - 45 3 12 2 1 3 11 - 45 3 12 2 1 - 13 7 - 73 0	LOCATION		DOM	EST	IC A	NIM	ALS			WIL	DA	NIM	ALS			
02 COTTBUS 2 5 10 - 5 - 22 44 - 3 2 - 49 03 DRESDEN 2 10 15 2 64 - 93 65 2 2 7 - 76 04 ERFURT 1 1 2 - 3 - 7 30 1 3 11 - 45 05 FRANKFURT/ODER - 3 2 - - 5 22 - 2 3 1 28 06 GERA - - - 2 11 - - - 7 73 08 KARL-MARX-STADT - 8 3 - 22 - 33 48 1 4 1 - 54 09 LEIPZIG 4 5 9 - 1 - 19 30 - - 1 - 31 10 MAGDEBURG 2 3 11 1 1 - 18 59 - <th>CODE NAME</th> <th>DOG</th> <th>CAT</th> <th>CATTLE</th> <th>HORSE</th> <th></th> <th>OTHERS</th> <th>TOTAL</th> <th>FOX</th> <th>BADGER</th> <th></th> <th>DEER</th> <th>OTHERS</th> <th></th> <th>CASES</th> <th>TOTAL</th>	CODE NAME	DOG	CAT	CATTLE	HORSE		OTHERS	TOTAL	FOX	BADGER		DEER	OTHERS		CASES	TOTAL
02 COTTBUS 2 5 10 - 5 - 22 44 - 3 2 - 49 03 DRESDEN 2 10 15 2 64 - 93 65 2 2 7 - 76 04 ERFURT 1 1 2 - 3 - 7 30 1 3 11 - 45 05 FRANKFURT/ODER - 3 2 - - 5 22 - 2 3 1 28 06 GERA - - - 2 11 - - - 7 73 08 KARL-MARX-STADT - 8 3 - 22 - 33 48 1 4 1 - 54 09 LEIPZIG 4 5 9 - 1 - 19 30 - - 1 - 31 10 MAGDEBURG 2 3 11 1 1 - 18 59 - <td>01 HAUPTSTADT BERLIN</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>-</td> <td>-</td> <td>1</td> <td>5</td> <td>-</td> <td>6</td> <td></td> <td>6</td>	01 HAUPTSTADT BERLIN							0	-	-	1	5	-	6		6
03 DRESDEN 2 10 15 2 64 - 93 65 2 2 7 - 76 04 ERFURT 1 1 2 - 3 - 7 30 1 3 11 - 45 05 FRANKFURT/ODER - 3 2 - - - 5 22 - 2 3 1 28 06 GERA - - - - 2 11 - - - - 11 07 HALLE 3 19 5 - 1 - 28 62 1 3 7 - 73 08 KARL-MARX-STADT - 8 3 - 22 - 33 48 1 4 1 - 54 09 LEIPZIG 4 5 9 - 1 - 19 30 - - 1 - 31 10 MAGDEBURG 2 3 11 1 1 - 33	02 COTTBUS	2	5	10	-	5		22	44	-	3		-	49		71
05 FRANKFURT/ODER - 3 2 - - 5 22 - 2 3 1 28 06 GERA - - - 2 - 2 11 - - - 11 07 HALLE 3 19 5 - 1 - 28 62 1 3 7 - 73 08 KARL-MARX-STADT - 8 3 - 22 - 33 48 1 4 1 - 54 09 LEIPZIG 4 5 9 - 1 - 19 30 - - 1 - 31 10 MAGDEBURG 2 3 11 1 1 - 18 59 - 32 - 64 11 NEUBRANDENBURG 1 2 - - - 3 11 - 33 - 70 12 POTSDAM 5 12 30 - 3 - 50 63 2 2 3	03 DRESDEN	2	10	15	2	64	-	93	65	2	2	7		76		169
06 GERA - - - - - - - - - 11 - - - - 11 07 HALLE 3 19 5 - 1 - 28 62 1 3 7 - 73 08 KARL-MARX-STADT - 8 3 - 22 - 33 48 1 4 1 - 54 09 LEIPZIG 4 5 9 - 1 - 19 30 - - 1 - 31 10 MAGDEBURG 2 3 11 1 1 - 118 59 - 3 2 - 64 11 NEUBRANDENBURG 1 2 - - - 3 11 - 3 - 70 12 POTSDAM 5 12 30 - 3 - 50 63 2 2 3 - 70 13 ROSTOCK 1 - 4 - 35 41 </td <td>04 ERFURT</td> <td>1</td> <td>1</td> <td>2</td> <td>-</td> <td>3</td> <td>- </td> <td>7</td> <td>30</td> <td>1</td> <td>3</td> <td>11</td> <td>-</td> <td>45</td> <td></td> <td>52</td>	04 ERFURT	1	1	2	-	3	-	7	30	1	3	11	-	45		52
O7 HALLE 3 19 5 - 1 - 28 62 1 3 7 - 73 08 KARL-MARX-STADT - 8 3 - 22 - 33 48 1 4 1 - 54 09 LEIPZIG 4 5 9 - 1 - 19 30 - - 1 - 31 10 MAGDEBURG 2 3 11 1 1 - 18 59 - 3 2 - 64 11 NEUBRANDENBURG 1 2 - - - 3 11 - 3 - 14 12 POTSDAM 5 12 30 - 3 - 50 63 2 2 3 - 70 13 ROSTOCK 1 - 4 - - 5 23 2 - 3 1 29 14 SCHWERIN 3 7 21 - 4 - 35 41 <td< td=""><td>05 FRANKFURT/ODER</td><td>-</td><td>3</td><td>2</td><td>- 1</td><td>-</td><td></td><td>5</td><td>22</td><td>-</td><td>2</td><td>3</td><td>1</td><td>28</td><td></td><td>33</td></td<>	05 FRANKFURT/ODER	-	3	2	- 1	-		5	22	-	2	3	1	28		33
08 KARL-MARX-STADT - 8 3 - 22 - 33 48 1 4 1 - 54 09 LEIPZIG 4 5 9 - 1 - 19 30 - - 1 - 31 10 MAGDEBURG 2 3 11 1 1 - 18 59 - 3 2 - 64 11 NEUBRANDENBURG 1 2 - - - 3 11 - 33 14 1 - 14 12 - - - - 3 11 - 33 - - 14 12 POTSDAM 5 12 30 - 3 - 50 63 2 2 3 - 70 13 ROSTOCK 1 - 4 - - 5 23 2 - 3 1 29 14 SCHWERIN 3 7 21 </td <td>06 GERA</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>2</td> <td>- </td> <td>2</td> <td>11</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>11</td> <td></td> <td>13</td>	06 GERA	-	-	-	-	2	-	2	11			-	-	11		13
09 LEIPZIG 4 5 9 - 1 - 19 30 - - 1 - 31 10 MAGDEBURG 2 3 11 1 1 - 18 59 - 3 2 - 64 11 NEUBRANDENBURG 1 2 - - - 3 11 - 38 - - 64 11 NEUBRANDENBURG 1 2 - - - - 3 11 - 33 - 64 12 POTSDAM 5 12 30 - - - 3 11 - 33 - 70 13 ROSTOCK 1 - 4 - - 55 23 2 - 3 1 29 14 SCHWERIN 3 7 21 - 4 - 35 41 1 15 3 - 50	07 HALLE	3	19	5	- 1	1		28	62	1	Э	7	-	73		101
10 MAGDEBURG 2 3 11 1 1 - 18 59 - 3 2 - 64 11 NEUBRANDENBURG 1 2 - - - - 3 11 - 3 2 - 64 11 NEUBRANDENBURG 1 2 - - - - 3 11 - 3 - - 14 12 POTSDAM 5 12 30 - 3 - 50 63 2 2 3 - 70 13 ROSTOCK 1 - 4 - - 5 23 2 - 3 1 29 14 SCHWERIN 3 7 21 - 4 - 35 41 1 5 3 - 50	08 KARL-MARX-STADT		8	3	- 1	22	-	33	48	1	4	1	-	54		87
11 NEUBRANDENBURG 1 2 - - - 3 11 - 3 - - 14 12 POTSDAM 5 12 30 - 3 - 50 63 2 2 3 - 70 13 ROSTOCK 1 - 4 - - 5 23 2 - 3 1 29 14 SCHWERIN 3 7 21 - 4 - 35 41 1 5 3 - 50	09 LEIPZIG	4	5	9	-	1	-	19	30	-	-	1	-	31		50
12 POTSDAM 5 12 30 - 3 - 50 63 2 2 3 - 70 13 ROSTOCK 1 - 4 - - 5 23 2 - 3 1 29 14 SCHWERIN 3 7 21 - 4 - 35 41 1 5 3 - 50	10 MAGDEBURG	2	3	11	1	1	-	18	59		3	2	-	64		82
13 ROSTOCK 1 - 4 5 23 2 - 3 1 29 14 SCHWERIN 3 7 21 - 4 - 35 41 1 5 3 - 50	11 NEUBRANDENBURG	1	2	-	-	-	-	3	11	-	Э	-	-	14	1 2	17
14 SCHWERIN 3 7 21 - 4 - 35 41 1 5 3 - 50	12 POTSDAM	5	12	30	-	3		50	63	2	2	з	-	70		120
	13 ROSTOCK	1	-	4	- 1	-		5	23	2	- 1	з	1	29		34
15 SUHL 1 - 1 - 7 - 9 45 - 9 2 2 - 49	14 SCHWERIN	3	7	21	-	4		35	41	1	5	з	- 1	50		85
	15 SUHL	1	-	1	-	7	-	9	45	-	2	2		49		58
TOTAL 25 75 113 3 113 0 329 554 10 33 50 2 649	TOTAL	25	75	113	3	113	0	329	554	10	33	50	2	649	0	978
	2.6 7.7	7.7		11.6	0.3	11.6	0.0	33.6	56.6	1.0	3.4	5.1	0.2	66.4	0.0	100.0

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LOCATION		DOM	EST	EC 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
010 SCHLESWIG-HOLSTEIN							0						0		0
020 HAMBURG							0						0		0
031 BRAUNSCHWEIG		-	2	1	-		3	7	-	1	-	-	8		11
032 HANNOVER		-	-	1	-	-	1	з	-	-	-	-	з		
033 LUENEBURG							0					1	0		0
034 WESER-EMS	1 1						0						0		
040 BREMEN			1.1				0						0		
051 DUESSELDORF							0						0		
053 KOELN							0	1	-	-	-		1		
055 MUENSTER							0	1					0		
057 DETMOLD		-	-	-	1 1	-	1	4	- 1	-	-	-	4		5
059 ARNSBERG	1	-	-	-	-	-	1	5	-	-	-	-	5		6
061 DARMSTADT	-	4	15	2	10	-	31	185	8	7	28	1	229		260
062 KASSEL	- 1	8	26	2	7	-	43	112	5	9	11	1	138		181
071 KOBLENZ	-	-	3	-	-	-	3	15	1	-	1	-	17		20
072 TRIER		-	2	-	-	-	2	9	-	-	-	-	9		11
073 RHEINHESSEN-PFALZ		4	-	-	2	-	6	93	-	1	з		97		103
081 STUTTGART		4	2	1	8	-	15	103	4	5	7	-	119		134
082 KARLSRUHE		-	2	-	-	-	2	7	-	-	_	-	7		9
083 FREIBURG							0	4	2	-	-	-	6		6
084 TUEBINGEN							0	8	-	-	-	-	8		6
091 OBERBAYERN			-				0	1	-	-	-		1		
092 NIEDERBAYERN	-	-	2	-	-	-	2	1	-	-	-	_	1		
093 OBERPFALZ					1		0	4	-	-	-	- 1	4		
094 OBERFRANKEN							0	4	-	-	-		4		
095 MITTELFRANKEN	-	1	-	-	-	-	1	20	-	1	-		21		22
096 UNTERFRANKEN	1	1	1	-	2	-	5	16	-	-	з	-	19		24
097 SCHWABEN	-	1	11	-	1		13	18	-	3	-	-	21		34
100 SAARLAND	-	2	5	-	5	-	12	19	-	2	4	-	25		37
110 BERLIN (WEST)							0						0		0
TOTAL	2	25	71	7	36	0	141	639	20	29	57	2	747	0	88
PER CENT	0.2	2.8	8.0	0.8	4.1	0.0	15.9	72.0	2.3	3.3	6.4	0.2	84.1	0.0	100

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LOCATION		DOM	EST	C A	NIM	ALS			WIL	DA	NIM	ALS		HUMAN	TOTAL
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	
01 AIN							0	4	-	-	-	-	4		4
02 AISNE		-		-	2	- 1	2	20		-	-	-	20		22
03 ALLIER	1 1						0	3		-	-	-	3		
08 ARDENNES	-	-	5	-	- 1	-	5	36	-	-	-	-	36		4
10 AUBE	1 1						0	18	-	1	-	-	19		11
21 COTE D'OR	2	7	6	1	1	-	17	27	-	-	-	-	27		4
25 DOUBS		1	3	-	3	-	7	45	3	1	1	-	50		5
39 JURA	1 1	-	2	-	- 1	-	3	32		1	-	-	33		3
51 MARNE							0	34	3	1	-	-	38		3
52 MARNE (HAUTE)	1	4	1	1	2	-	9	13	1	-	-	-	14		2
54 MEURTHE ET MOSELLE	2	6	9	-	7	-	24	34		3	-	2	39		6
55 MEUSE		з	13	2	5	-	23	32		6	4		42		6
57 MOSELLE		2	7	-	11	-	20	46		1	2	-	49		6
58 NIEVRE		-	3	- 1	11	-	14	133		2	1	-	136		15
60 OISE	3	3	9	3	28		46	65	2	2	1	-	70		110
67 RHIN (BAS)		-	2	1	-		3	8	-	-	-	-	8	1	1
68 RHIN (HAUT)	-	2		-	- 1	-	2	10	-		-	-	10		1
70 SAONE (HAUTE)	-	1	1	-	-	-	2	11	-	1	-	_	12		1 1
71 SAONE ET LOIRE	-	2	14	-	9	-	25	41		1	1	-	43	1	6
76 SEINE MARITIME	1	-	8	1	5	1	16	48	1	-	-	-	49		6
77 SEINE ET MARNE							0	48	-	-	-	-	48	1	4
78 YVELINES	1 1						o	1	-	-	_	-	1	11	
BO SOMME		-	1	1	-	-	2	11	-		-	-	11		1:
88 VOSGES		6	3	1	з	-	13	45	-	4	-	-	49		6
89 YONNE		1	1	1	4	-	7	27	-	-	1	-	28	1	3
99 NO LOCATION	1 1	-		-	-	-	1						0		

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CODE NAME DOG CAT CATTLE HORSE SHEEP GOAT OTHERS FOX BADGER OTHER DEER OTHERS TOTAL CASES 01 BUDAPEST - - - - 5 18 - - 1 - 1 - 19 19 03 BACS-KISKUN 2 1 2 - - - 5 18 - - 1 - 19 11 10 10 10	CODE NAME DOG CAT CATTLE HORSE SHEEP 90AT OTHERS TOTAL FOX BADGER OTHER DEER OTHERS TOTAL CASES 01 BUDAPEST 2 1 2 - - - - - - - 2 2 4 - - 5 18 - - - - 1 - 19 20 2 4 - - 1 5 20 - - - 1 9 20 - - - 3 3 - - - 1 0 3 - - - 3 3 - - - 4 9 - - - 3 3 - - 1 6 25 - - - 9 9 - - - 25 5 - - - 25 2 <th>LOCATION</th> <th></th> <th>DOM</th> <th>EST</th> <th>IC A</th> <th>NIM</th> <th>ALS</th> <th></th> <th></th> <th>WII</th> <th>LDA</th> <th>NIM</th> <th>ALS</th> <th></th> <th>HUMAN</th> <th>TOTAL</th>	LOCATION		DOM	EST	IC A	NIM	ALS			WII	LDA	NIM	ALS		HUMAN	TOTAL
02 BARANYA 2 1 2 - - - 5 18 - - 1 - 19 19 03 BACS-KISKUN 2 2 4 - - 1 9 20 - - - - 20 04 BEKES 0 3 - - - - 3 3 - - - - 20 3 - - - - 20 - - - 4 25 - - - 3 3 - - - - 4 95 - - - 25 - - - - 4 95 - - - - 25 - - - - 16 25 - - - - 25 - - - - 7 - - - 15 5 - - - 7 - 15 15 16 17 1	02 BARANYA 2 1 2 - - - 5 18 - - 1 - 19 20 03 BACS-KISKUN 2 2 4 - - 1 9 20 - - - - 20 4 04 BEKES 0 3 - - - - - - - - - 20 4 0 3 - 1 6 25 - - - - - - 1 1 - - - - 1 6 1 - - 1 1 1 - 1 1 1	CODE NAME	DOG	CAT	CATTLE	HORSE		OTHERS	TOTAL	FOX	BADGER		DEER	OTHERS			TOTAL
03 BACS-KISKUN 2 2 4 - - 1 9 20 - - - 20 04 BEKES 0 3 - - - - 3 - - - - 3 05 BORSOD-ABAUJ-ZEMPLEN 2 2 - - - 4 25 - - - 9 - - - 25 06 03 - - - - 4 9 - - - - 25 07 05 5 - - - 25 07 7 - - - 25 07 09 HAJDU-BIHAR - 4 1 - - - 5 5 - - - 7 15 10 HEVES - 1 1 - - - 11 17 - - 17 17 12 106RAD - - 11 17 - - - 17 120 14 500069 <	03 BACS-KISKUN 2 2 4 - - 1 9 20 - - - 20 20 20 - - - 20 20 - - - 20 20 - - - - 20 20 - <td>01 BUDAPEST</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>2</td> <td></td> <td>2</td>	01 BUDAPEST							0	2	-	-	-	-	2		2
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05 BORSOD-ABAUJ-ZEMPLEN 2 2 - - - 4 25 - - - 25 1 06 CSONGRAD - 2 2 - - - 4 9 - - - 9 07 FEJER - 2 3 - - 1 6 25 - - - 25 5 08 GYOER-SOPRON - - 4 1 - - - 5 5 - - 7 7 09 HAJDU-BIHAR - 1 1 - - - 1 1 - 7 7 - - 7 7 10 HEVES - 1 1 - - 1 17 - - 17 17 12 NOGRAD - 3 - - 4 20 - - 17 1 - 7 13 12 SZABOLCS-SZATMAR 1 <td>05 BORSOD-ABAUJ-ZEMPLEN 2 2 - - - 4 25 - - - 25 26 06 CSONGRAD - 2 2 - - 4 9 - - - 9 37 07 FEJER - 2 3 - - 1 66 25 - - - 9 37 08 GYDER-SOPRON - - 1 1 - - - 55 - - - 7 9 37 09 HAJDU-BIHAR - 1 1 - - - 1 17 - - 1 17 9 37 10 HEVES - 1 1 - - - 3 7 - - 7 1 <td< td=""><td>03 BACS-KISKUN</td><td>2</td><td>2</td><td>4</td><td></td><td></td><td>1</td><td>. 9</td><td>20</td><td>-</td><td>- </td><td>-</td><td>-</td><td>20</td><td>1</td><td>29</td></td<></td>	05 BORSOD-ABAUJ-ZEMPLEN 2 2 - - - 4 25 - - - 25 26 06 CSONGRAD - 2 2 - - 4 9 - - - 9 37 07 FEJER - 2 3 - - 1 66 25 - - - 9 37 08 GYDER-SOPRON - - 1 1 - - - 55 - - - 7 9 37 09 HAJDU-BIHAR - 1 1 - - - 1 17 - - 1 17 9 37 10 HEVES - 1 1 - - - 3 7 - - 7 1 <td< td=""><td>03 BACS-KISKUN</td><td>2</td><td>2</td><td>4</td><td></td><td></td><td>1</td><td>. 9</td><td>20</td><td>-</td><td>- </td><td>-</td><td>-</td><td>20</td><td>1</td><td>29</td></td<>	03 BACS-KISKUN	2	2	4			1	. 9	20	-	-	-	-	20	1	29
06 CSONGRAD - 2 2 - - - 4 9 - - - 9 1 07 FEJER - 2 3 - - 1 6 25 - - - 25 5 08 GYDER-SOPRON - - 4 1 - - - 5 5 - - - 7 7 09 HAJDU-BIHAR - 4 1 - - - 5 5 - - - 7 9 10 HEVES - 1 - - - 1 17 - - 177 12 NOGRAD - 1 - - - 1 177 - - 177 12 NOGRAD - 3 - - - 1 177 - - - 177 13 PEST 2 2 - - 1 - 6 42 - - 1 43 15 SZAB	06 CSONGRAD - 2 2 - - - 4 9 - - - 9 4 07 FEJER - 2 3 - - 1 6 25 - - 25 3 08 GYDER-SOPRON - - 4 1 - - - 5 5 - - - 7 25 3 09 HAJDU-BIHAR - 1 1 - - - 5 5 - - - 7 5 10 10 HEVES - 1 1 - - - 1 1 - 9 4 1 <	04 BEKES							0	3	- 1		-	-	3	1	3
07 FEJER - 2 3 - - 1 6 25 - - - 25 5 08 GY0ER-SOPRON - - 4 1 - - 5 5 - - - 7 7 09 HAJDU-BIHAR - 1 1 - - - 5 5 - - - 5 5 10 HEVES - 1 1 - - - 2 8 - - 1 - 9 1 11 KOMAROM - 1 1 - - - 1 17 - - 17 12 NOGRAD - 3 - - - 3 7 - - - 77 13 PEST 2 2 1 2 - 1 - 6 422 - - 1 43 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - - 1	07 FEJER - 2 3 - - 1 6 25 - - - 25 3 3 08 GYDER-SOPRON - 4 1 - - - 5 5 - - - 7 3 09 HAJDU-BIHAR - 1 1 - - - 5 5 - - - 7 3 10 HEVES - 1 1 - - - 2 8 - - 1 9 3 11 KOMAROM - 1 - - - 1 17 - - - 17 17 12 NOGRAD - 3 - - - - 3 7 - - 1 7 1 17 13 15 22 2 - 1 - - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	05 BORSOD-ABAUJ-ZEMPLEN	2	2	-	-	-		4	25	-		-	-	25	1	29
08 GYOER-SOPRON - - - - - - - - - - - 7 - - - 7 09 HAJDU-BIHAR - - - 5 55 - - - - 55 10 HEVES - 1 1 - - - 2 8 - - 1 - 9 11 KOMAROM - 1 1 - - - 1 1 - 9 11 10 - - 1 1 - - 1 11 - - 1 1 - 9 11 12 NOGRAD - 1 1 - - 17 1	08 GYDER-SOPRON - - - - - - - - 7 - - - 7 0 09 HAJDU-BIHAR - 4 1 - - - 5 5 - - - - 5 5 - - - - 5 5 - - - - 5 5 1 - - - 5 5 - - - - 5 5 1 - - - 5 5 - - - 5 5 - - - - 5 5 - - - - 5 5 1 - - - 5 5 - - 1 1 - - 1 1 - - 1 1 - - 1 17 17 17 17 17 17 17 11 1 1 1 1 1 1 1 18 18 17 </td <td>06 CSONGRAD</td> <td>-</td> <td>2</td> <td>2</td> <td>- 1</td> <td>- 1</td> <td>-</td> <td>4</td> <td>9</td> <td>- 1</td> <td>- </td> <td>-</td> <td>-</td> <td>9</td> <td>1</td> <td>13</td>	06 CSONGRAD	-	2	2	- 1	- 1	-	4	9	- 1	-	-	-	9	1	13
D9 HAJDU-BIHAR - - - - 5 5 - - - 5 10 HEVES - 1 1 - - - 2 8 - - 1 - 9 11 KOMAROM - 1 1 - - - 1 1 - 9 11 KOMAROM - 1 - - - 1 17 - - 1 - 9 11 KOMAROM - 1 - - - 1 17 - - - 17 12 NOGRAD - 3 - - - - 3 7 - - - 7 13 PEST 2 2 1 2 - 1 - 6 422 - - 1 - 433 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - 1 1 16 SZOLNOK 1 2 3	D9 HAJDU-BIHAR - - - - 5 5 - - - - 5 4 4 1 - - - 5 5 - - - - 5 5 - - - - 5 5 - - - - 5 5 - - - - 5 5 - - - - - - - - - - 1 - - - - 1 - - - - 1 - - - - 1 1 - - - 1 1 1 - - 1 1 1 1 - - 1	07 FEJER	-	2	3	- 1	- 1	1	6	25	-		-	-	25	1	31
10 HEVES - 1 1 - - - 2 8 - - 1 - 9 11 KOMAROM - 1 - - - 1 17 - - 1 - 9 11 KOMAROM - 1 - - - - 1 17 - - - 17 12 NOGRAD - 3 - - - - 3 7 - - - 7 13 PEST 2 2 - - - 4 20 - - - 20 14 SOMOGY 2 1 2 - 1 - 6 422 - - 1 - 43 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - 1 1 16 SZOLNOK - - - - 6 17 - - 177 1 17 TOLNA 1 2 3 </td <td>10 HEVES - 1 1 - - - 2 8 - - 1 - 9 1 11 KOMAROM - 1 - - - 1 17 - - - 17 17 12 NOGRAD - 3 - - - 3 7 - - - 17 17 12 NOGRAD - 3 - - - - 3 7 - - - 17 17 13 PEST 2 2 - - - 4 20 - - - 20 23 14 SOMOGY 2 1 2 - 1 1 - - - 1 4 20 - - 1 1 - - 20 2 - 1 1 - - 1 1 - - 1 1 1 3 3 3 -<td>08 GYOER-SOPRON</td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>7</td><td></td><td></td><td>-</td><td>-</td><td>7</td><td></td><td>7</td></td>	10 HEVES - 1 1 - - - 2 8 - - 1 - 9 1 11 KOMAROM - 1 - - - 1 17 - - - 17 17 12 NOGRAD - 3 - - - 3 7 - - - 17 17 12 NOGRAD - 3 - - - - 3 7 - - - 17 17 13 PEST 2 2 - - - 4 20 - - - 20 23 14 SOMOGY 2 1 2 - 1 1 - - - 1 4 20 - - 1 1 - - 20 2 - 1 1 - - 1 1 - - 1 1 1 3 3 3 - <td>08 GYOER-SOPRON</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>7</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>7</td> <td></td> <td>7</td>	08 GYOER-SOPRON							0	7			-	-	7		7
11 KOMAROM - 1 - - 1 17 - - - 17 12 NOGRAD - 3 - - - - 3 7 - - - 17 12 NOGRAD - 3 - - - - 3 7 - - - 7 13 PEST 2 2 - - - - 4 20 - - - 20 14 SOMOGY 2 1 2 - 1 - 6 42 - - 1 - 43 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - 1 1 16 SZOLNOK - - - - 6 17 - - - 1 17 TOLNA 1 2 3 - - - 1 1 - - 1 1 18 VAS - - 1 - -	11 KOMAROM - 1 - - 1 17 - - - 17 12 12 NOGRAD - 3 - - - - 3 7 - - - 7 13 13 PEST 2 2 - - - - 4 20 - - - 20 2 14 SOMOGY 2 1 2 - 1 - 6 42 - - 1 - 43 4 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - 1 43 4 16 SZOLNOK - - - 1 1 - - - 1 1 17 TOLNA 1 2 3 - - - 1 125 - - - 17 12 18 VAS - - 1 - - 1 13 - 2 - - 15 2 <	09 HAJDU-BIHAR	-	4	1	-	- 1	- 1	5	5	-		-	-	5	1	10
12 NOGRAD - 3 - - - 3 7 - - - 7 13 PEST 2 2 - - - 4 20 - - - 7 14 SOMOGY 2 1 2 - 1 - 6 42 - - 1 - 433 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - 1 433 16 SZOLNOK - - - - 1 1 - - - 1 17 TOLNA 1 2 3 - - - 6 17 - - - 6 18 VAS - - 1 - - - 1 25 - - - 25 19 VESZPREM - 1 - - 1 13 - 2 - 15	12 NOGRAD - 3 - - - - 3 7 - - - 7 13 14 </td <td>10 HEVES</td> <td>-</td> <td>1</td> <td>1</td> <td></td> <td>- 1</td> <td>-</td> <td>2</td> <td>8</td> <td>-</td> <td></td> <td>1</td> <td></td> <td>9</td> <td></td> <td>11</td>	10 HEVES	-	1	1		- 1	-	2	8	-		1		9		11
13 PEST 2 2 - - - 4 20 - - - 20 1 14 SOMOGY 2 1 2 - 1 - 6 42 - - 1 - 433 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - 1 1 16 SZOLNOK - - - 1 1 - - 1 1 17 TOLNA 1 2 3 - - - 6 17 - - - 6 18 VAS - - 1 125 - - - 25 - - - 25 - - 15 - 15 - 15 - - 15 - - 15 - 15 - - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -	13 PEST 2 2 - - - 4 20 - - - 20 20 14 SOMOGY 2 1 2 - 1 - 6 42 - - 1 - 433 4 15 SZABOLCS-SZATMAR 1 - - - - 1 1 - - 1 - 433 4 15 SZABOLCS-SZATMAR 1 - - - - 1 1 - - - 1 1 16 SZOLNOK - - - - - 1 1 - - - 1 1 16 SZOLNOK - - - - 6 17 - - - 16 17 TOLNA 1 2 3 - - - 6 17 - - - 17 2 18 VAS - - 1 - - 1 13 - 2 - - 16 </td <td>11 KOMAROM</td> <td>-</td> <td>1</td> <td>-</td> <td>- 1</td> <td>- 1</td> <td>-</td> <td>1</td> <td>17</td> <td>-</td> <td></td> <td>-</td> <td></td> <td>17</td> <td></td> <td>18</td>	11 KOMAROM	-	1	-	- 1	- 1	-	1	17	-		-		17		18
14 SOMOGY 2 1 2 - 1 - 6 42 - - 1 - 43 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - 1 - 43 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - - 1 16 SZOLNOK - - - - 1 1 - - - 1 17 TOLNA 1 2 3 - - - 6 17 - - 6 17 - - 6 17 - - 16 17 10	14 SOMOGY 2 1 2 - 1 - 6 42 - - 1 - 43 43 15 SZABOLCS-SZATMAR 1 - - - - 1 1 - - 1 - 43 43 44 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - - 1 1 - - - 1 1 - - - 1 1 1 - - - 1 1 1 - - - 1 1 1 - - - 1 1 1 - - - 1	12 NOGRAD	-	з	-	-	- 1	-	3	7	-	-	-	-	7		10
14 SOMOGY 2 1 2 - 1 - 6 42 - - 1 - 43 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - 1 - 43 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - - 1 16 SZOLNOK - - - - 1 1 - - - 1 17 TOLNA 1 2 3 - - - 6 17 - - 6 17 - - 6 17 - - 16 17 10	14 SOMOGY 2 1 2 - 1 - 6 42 - - 1 - 43 43 15 SZABOLCS-SZATMAR 1 - - - - 1 1 - - 1 - 43 43 44 15 SZABOLCS-SZATMAR 1 - - - 1 1 - - - 1 1 - - - 1 1 - - - 1 1 1 - - - 1 1 1 - - - 1 1 1 - - - 1 1 1 - - - 1	13 PEST	2	2	-	- 1	- 1	- 1	4	20	-		-	-	20	1	24
15 SZABOLCS-SZATMAR 1 - - - 1 1 - - - 1 16 SZOLNOK - - - - 0 6 - - - 1 1 17 TOLNA 1 2 3 - - - 6 17 - - - 6 17 TOLNA 1 2 3 - - - 6 17 - - - 17 18 VAS - - 1 - - 1 25 - - - 25 19 - 2 - 15 15	15 SZABOLCS-SZATMAR 1 - - - 1 1 - - - 1 1 1 - - - 1 1 1 - - - 1 1 1 - - - 1 1 1 - - - 1 1 1 - - - 1 1 1 1 - - 1 1 1 1 - - 1 1 1 1 - - 1	14 SOMOGY	2	1	2	-	1	- 1	6	42			1		43		49
17 TOLNA 1 2 3 - - 6 17 - - - 17 18 VAS - - 1 - - 1 25 - - - 17 18 VAS - - 1 - - 1 25 - - - 25 19 VESZPREM - 1 - - - 1 13 - 2 - - 15	17 TOLNA 1 2 3 - - - 6 17 - - - 17 18 18 VAS - - 1 - - - 1 25 - - - 17 25 19 10 11	15 SZABOLCS-SZATMAR	1	-	-	-		- 1	1	1	-	-	-	-	1		2
18 VAS 1 1 25 25 19 VESZPREM - 1 1 13 - 2 15	18 VAS - - 1 - - 1 25 - - - 25 23 19 VESZPREM - 1 - - - 1 13 - 2 - - 15 15 15 15 15 15 16 16 16 - - 16 <td>16 SZOLNOK</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>0</td> <td>6</td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>6</td> <td></td> <td>2</td>	16 SZOLNOK					1		0	6	-		-	-	6		2
18 VAS 1 1 25 25 19 VESZPREM - 1 1 13 - 2 15	18 VAS - - 1 - - 1 25 - - - 25 23 19 VESZPREM - 1 - - - 1 13 - 22 - - 15 15 15 20 ZALA - - - - - - 16 - - - 16 16	17 TOLNA	1	2	3	-	-	-	6	17	-	-	-		17		23
	20 ZALA 0 16 16 1	18 VAS	-	-	1	-	- 1		1	25		-	-		25	1	26
	20 ZALA 0 16 16 1		-	1		-	-	-	1		-	2	-	-		1	16
		20 ZALA							0	16	-	-	-	-			16
TOTAL 12 24 19 0 1 2 58 286 0 2 3 0 291 0 3		PER CENT	3.4	6.9	5.4	0.0	0.3	0.6	16.6	81.9	0.0	0.6	0.9	0.0	83.4	0.0	100.

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LOCATION		DOM	EST		NIM	LS			WI		NIM	LS			
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	HUMAN	TOTAL
ITA ITALY															
20 MILANO 1) 34 TRIESTE E GORIZIA	1	-	-	-	-	-	1	-	1	-	-	-	01		1
TOTAL	1	0	0	0	0	٥	1	0	1	0	0	٥	1	0	2
ROM ROMANIA															
04 BACAU 07 BOTOSANI 08 BRASOV	-	1	- 1 2	Ξ	Ξ	Ξ	1 1 2						0 0 0		1 1 2
22 HUNEDOARA	-	1 2	- 3	-	-	-	1 5	1	-	-	-	-	1	0	2
SPA SPAIN 52 MELILLA 2)	1	_		-	_	_	1		I				0	I	1
SWI SWITZERLAND AND															
01 AARGAU 05 BASEL-LAND 06 BERN 12 NEUCHATEL	-	-	-	-	2	-	0 2 0 0	1 5 1 1	·				1 5 1 1		1 7 1
TOTAL	0	0	0	o	2	o	2	8	0	0	0	0	8	0	10
YUG YUGOSLAV	IA				8										
10 SR BOSNA I HERCEGOVIN 30 SR HRVATSKA 50 SR SLOVENIJA 61 SAP VOJVODINA	- 3 1 -	- 2 1 1	1 - -	- 1 -	1 2 1 1		1 8 2 1	13 191 116 22	2 -	- 1 2 -	- 1 -	1111	13 193 120 22		14 201 122 23
TOTAL	4	4	1	1	2	o	12	342	2	з	1	o	348	o	360

1) IMPORTED FROM IVORY COAST. 2) IN NORTH AFRICA.

CODE NAME DOCAT CATL RAME SHEEP OTHER TOTAL FOX BADEP OTHER OTHER OTHER OTHER OTHER DEER OTHER DEER OTHER OTHER OTHER DEER OTHER OTHER OTHER BADEP IDER OTHER OTHER FOX BADER OTHER OTHER FOX BADER OTHER OTHER FOX BADER OTHER OTHER IDER OTHER OTHER IDER IDER OTHER IDER IDER OTHER IDER IDER </th <th>CODE NAME DOG CAT CATTLE HORSE SHEEP OTHER FOX BADGER NUSEL DEER OTHER CAT CASES 05 01 MARSZAWA 1 - - - - 1 13 - - 1 1 2 0 1 - - 1 1 2 0 1 - - 1 1 2 0 0 1 - - 1 1 2 0 0 1 - - 1 1 2 0 - - - 1 1 2 0 0 - - - 0 0 - - 1<!--</th--><th>DOG CA MARSZAWA 1 DIALYSTOK</th><th>-</th><th>HORSE</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>TOTAL</th></th>	CODE NAME DOG CAT CATTLE HORSE SHEEP OTHER FOX BADGER NUSEL DEER OTHER CAT CASES 05 01 MARSZAWA 1 - - - - 1 13 - - 1 1 2 0 1 - - 1 1 2 0 1 - - 1 1 2 0 0 1 - - 1 1 2 0 0 1 - - 1 1 2 0 - - - 1 1 2 0 0 - - - 0 0 - - 1 </th <th>DOG CA MARSZAWA 1 DIALYSTOK</th> <th>-</th> <th>HORSE</th> <th></th> <th>TOTAL</th>	DOG CA MARSZAWA 1 DIALYSTOK	-	HORSE											TOTAL
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LOCATION		DOM	EST	CC A	NIM	ALB			WI	LD A	NIM	ALS		HUMAN	TOTAL
CODE NAME	DOG	CAT	CATTLE	HORSE	SHEEP GOAT	OTHERS	TOTAL	FOX	BADGER	OTHER MUSTEL	DEER	OTHERS	TOTAL	CASES	
001 ADANA	1	-		-	-	-	1				- 31		0		
003 AFYON	-	1	-	-	-	-	1					1 2	0		
004 AGRI		1	-	-			1						0	1	
006 ANKARA	5	-	-	-	-		5						0		
007 ANTALYA	1	-	-	1		-	2						0		
NIDYA POO	1	-	-	-	-	-	1		4				0		
010 BALIKESIA	5	-	-	-	-	-	5						0		
011 BILECIK	1	-	1	-	-	-	2						0		
014 BOLU	-	-	1	-	-	-	1						0		
016 BURSA	7	-	- 1	-	2	-	9						0		
19 CORUM	1	-	-	-	-	-	1			1 1			0		
20 DENIZLI	3	-	-	-	-	-	3						0		
22 EDIRNE	2	-	-	-		-	2						0		
25 ERZURUM	1	1	-	-	-	-	. 2	-	-	-	-	1	1		
26 ESKISEHIR	-	-	1	-		-	1						0		
027 GAZIANTEP	8	-	1	-		-	9					1 1	0	1	1
28 GIRESUN	2	-	-	-		-	2						0		1
031 HATAY	2	-	-	-			2		1				0		
033 ICEL	1	-	-	-	-		1						0		
034 ISTANBUL	15	-	1	-	-		16	10					0		1
035 IZMIR	6	-	1	-	-	-	7						0	1	
036 KARS	2	-	-	-			2						0		1
037 KASTAMONU	1	-	-	1	-		2	-	-		-	1	1		
038 KAYSERI	2	-	1	-	-	-	3						0		
039 KIRKLARELI	1	-	-	-	-	-	1						0		
040 KIRSEHIR	1	-	-			-	1						0		
041 KOCAELI	2	-	2	-	-	-	4						0		1
042 KONYA	4	-	-	-	1	-	5						0		
043 KUETAHYA	з	-	-	-	-	-	3						0		
045 MANISA							0	-	-	-	-	1	1		1
046 KAHRAMAN MARAS	2	-	1	-	-	-	3						0		
D51 NIGDE	2	-	-	-	-	-	2						0		
52 ORDU	3	-	2	-	-	-	5						0		
54 SAKARYA	5	-	2	-	-	-	7						0		
55 SAMSUN	7	-	-	1	-	-	8						0		
57 SINOP	4	1	2	-	-	-	7						0		
58 SIVAS	1	- 1	-	-	-	-	1						0		
DEO TOKAT	1	-	-	-	-	-	1	-					0		
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4th Quarter: October - December 1989

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6. List of Contributors

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Belgium Dr. J. Tambeur Ministère de l'Agricult Bulgaria Dr. N.T. Beley	BEL ure BUL	Greece Dr. A. Saravanos Dr. E. Tsaglas Ministry of Agriculture Hungary Dr. A. Glózik		Poland Dr. Jan Kolasz Ministry of Agricultur Dr. Danuta Serokova National Institute of J	e	Turkey Dr. E. Istanbulluoglu Ministry of Agriculture Forestry and Rural Aff	
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