

Brussels, 26.04.1999
COM(1999)191 final

COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, 26.04.1999
COM(1999)191 final

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## I. INTRODUCTION

The objective of this report is to present to the Council and the European Parliament, pursuant to Article 26 of Directive $86 / 609 / \mathrm{EEC}^{1}$, the statistical data on the number of animals used for experimental and other scientific purposes in the Member States of the European Union.

This report follows the first report, COM (94) 195 final, published in 1994 on the statistics on animals used in the Member States in $1991^{2}$.

Directive 86/609/EEC does not specify a format nor the level of detail for the statistical data. However, in order to be able to consolidate a meaningful report on the EU situation the data needs to be presented in a harmonised manner. In 1997 after several years of discussion the national authorities competent for this Directive agreed on a uniform set of statistical tables (later in this report referred to as "EU tables"). These tables are being implemented in 1998 for the data collection to start in January 1999.

A similar reporting is required of the parties to the Council of Europe Convention ETS 123 on the protection of vertebrate animals used for experimental and other scientific purposes. The Convention defines a set of five tables for the statistical data collection (later referred to as "Convention tables").

Therefore, the data submitted for this report follow various different formats. In addition to the two formats described above, national formats (later referred to as "national tables") have been used by some Member States as well as formats used before the final set of tables which were agreed in 1997 (later referred to as "preceding tables").

The most frequently used format is that of the Council of Europe Convention ETS 123. Two Member States, namely France and Sweden, have already succeeded in introducing the uniform "EU tables" for this report.

The next report to the Council and the European Parliament, which will be available in the year 2000, will be based on the uniform data as agreed by the Member States in 1997.

[^0]
## II. STATISTICS

## 1. General

Each Member State is requested, pursuant to Articles 13 and 26 of Directive $86 / 609 / \mathrm{EEC}$, to submit to the Commission the statistical data on the animals used for experimental and other scientific purposes. This report contains data from the year 1996 with the exception of one Member State which reports data of $1997^{3}$.

Council Resolution $86 / C 331 / 02^{4}$ allows the use of animals in experiments for education and training, but where the purposes of such experiments are not covered by the Directive i.e. they are not experimental or scientific in the sense of the Directive, Member States will according to the resolution apply national provisions wich are no less severe than those of the Directive. Therefore, a number of Member States have also included animals covered by this Resolution in the report.

The aim of this report is to provide a general overview of the EU situation as an intermediate tool before the year 2000 when the first harmonised report will be published by the Commission. The compilation of the data was not an easy task bearing in mind the different ways in which the data were provided. Nevertheless, an attempt was made to provide some indication as to which species and for what purposes these animals are used in the EU.

For the interpretation of these data several factors have to be noted

- The previous report published in 1994 covered the year 1991, with two exceptions. Thus the summary table at EU level consisted of a mixture of data from the years 1990, 1991 and 1992. No data was provided by Belgium and Luxembourg.
- Three new Member States, namely Austria, Finland and Sweden who joined the EU since the publication of the previous report have now submitted their data for the first time.
- A number of Member States have changed the reporting criteria since the previous report. Consequently, no comparison is possible between these two sets of national data.
- Some Member States also report on animals which are from areas beyond the scope of the Directive and the Resolution, e.g. production of harmful mutant and transgenic animals. Therefore comparison of the total numbers from different Member States is not possible.

The total number of animals ${ }^{5}$ in this report amounts to 11.6 million animals. For the reasons previously stated it should be emphasised that the total number as such has relatively little significance. In addition, this number consists of a variety of animal species of highly different nature such as cold-blooded animals like fish as well as

[^1]superior mammals like non-human primates. The readers are invited to further examine the distribution between the different groups of species on page 13.

Taking all these factors into account one should be very cautious in making any conclusion or comparisons with the results presented in this report. Furthermore, no attempts should be made to compare the finding of this report with the report of 1994.

Nevertheless, some general observations can be made from a statistical point of view. These can be found in their relevant section under part 3 "Compilation and interpretation of the data" of II Statistics.

## 2. Structure of the report

The present report consists of two parts.

- The first part contains a global compilation for the European Union of the same statistical data provided by each Member State for 1996 except for France ${ }^{6}$ who is reporting data of 1997 (point 3. "Compilation and interpretation of the data").

Despite the fact that one Member State has reported data for 1997, this report is intended to give credit for the effort made by all the Member States to report statistical data on animals used for experimental and other scientific purposes.

In order to achieve this objective, a series of table "bis" have been computed to take into account data submitted for 1996 and 1997. The readers are invited therefore to consider also tables 2 bis, 3 bis and 4 bis even though these tables are not correct from a statistical point of view and should therefore not be used for comparison purposes.

- The second part contains the relevant extracts of the data as submitted by Member States. For those Member States which included comments or conclusions with their data, the present report also contains a summary of these comments.

[^2]
## 3. Compilation and interpretation of the data

## A. Data forwarded

The first table, showing the data provided by each Member State has been prepared to demonstrate which tables could be compiled for the European Union for 1996 (table 1 on next page).

Fourteen Member States reported the data for the year 1996.
The compilation and the interpretation of the data were voluntarily limited to the parameters which were reported by at least 9 Member States :
$\Rightarrow$ the kind ${ }^{7}$ and number of animals used ( 14 Member States);
$\Rightarrow$ the number of animals versus the purpose of the procedure ( 13 Member States);
$\Rightarrow$ the number of animals used in toxicological and other safety evaluations: type of product tested versus species (11 Member States);
$\Rightarrow$ the number of animals used in procedures for studies on human and animal diseases : type of diseases versus species ( 9 Member States).

Given that there maybe additional national requirements regarding the reporting of animals used for experimental purposes, data provided to the Commission for the purposes of this report do not necessarily represent the full extent of the national statistics.

Some Member States which have used no animals for a specific purpose have omitted this purpose rather than reporting zero use. However, this does not mean that such purpose is not considered by the Member States in question.

When looking at the tables and graphical presentations presented below, one should always bear in mind these limitations in the data availability; it is therefore not possible to draw precise conclusions for the whole European Union.

[^3]Table 1

| Deta forwarded for 1996: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | B | DK | D | EL | $E$ | F | LRL | 1 | L | ML | A | P | FIN | 5 | UK | Totel " |
| Report on 1908 dra | Y | $Y$ | $\bar{Y}$ | Y | Y |  | Y | Y | Y | Y | $\bar{Y}$ | $Y$ | $Y$ | Y | $Y$ | 14 |
| Kind of minmels | $Y$ | $Y$ | $Y$ | $Y$ | $Y$ |  | $Y$ | $Y$ | $Y$ | $Y$ | $Y$ | $Y$ | $Y$ | $Y$ | $\boldsymbol{Y}$ | 14 |
| Number of mimals | $\bar{Y}$ | $Y$ | $\bar{Y}$ | $Y$ | $Y$ |  | $Y$ | Y | $Y$ | $Y$ | $Y$ | $Y$ | $Y$ | $Y$ | $\boldsymbol{Y}$ | 14 |
| Number of animals used in retation to their place of origin: Origin versus zpecies |  | $Y$ |  | $\mathbf{Y}$ |  |  |  | Y |  |  |  | $Y$ | Y | Y | $\mathbf{Y}$ | 7 |
| Number of animats used in experiments for selected purpose: Purpose versus species | Y | $\gamma$ | Y | $\boldsymbol{Y}$ | Y | - | $Y$ | Y |  | Y | Y | Y | Y | Y | $\boldsymbol{Y}$ | 13 |
| Number of animals used in experiments for studies on human and animel diseases: <br> Type of diseases versus species <br> Number of animats used in production and quaity control of products and devices for human medicine end dentistry and for veterinary medicine : Regulatory requirements versus species | Y | $Y$ |  | $Y$ | $Y$ |  | $\gamma$ |  |  | $Y$ |  | Y | Y | $Y$ |  | 9 |
|  |  | Y |  |  |  |  |  |  |  |  |  |  |  | Y |  | 2 |
| Number of animals used in toodocoogical and other seferty evaluations: Type of products voraus apecies | Y | V | Y | Y | Y |  | $\gamma$ |  |  | Y |  | $\boldsymbol{\gamma}$ | $\boldsymbol{Y}$ | Y | $Y$ | 11 |
| Number of minimals used in trudcologicel and other safety ovaluations: Regulatory requirements versus species |  | $Y$ |  |  |  |  |  |  |  |  |  | Y |  | Y | Y | 4 |
| Number of animals used in tridoological and other saifety evaluations: Types of test versus specias | Y | Y |  |  |  |  |  |  |  |  |  | Y |  | Y | $\boldsymbol{r}$ | 5 |
| Number of minimals ued in tacicological and other seifity ovaluations: Types of tastos versus products | Y | $Y$ |  |  |  |  |  |  |  |  |  | Y |  | Y |  | 4 |
| Number of animals used in toxicological and other sefety evaluetions: Types of tosts versus reguhatory requirements | Y | Y |  |  |  |  |  |  |  |  |  | Y |  |  |  | 3 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of animats used in experiments for studies on human and mimeal diseases: Type of diseases versus repuletory requirements | Y |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| General: Requlatory requirement versus species |  |  | $\mathbf{Y}$ | $Y$ |  |  |  | Y |  | Y |  | $Y$ | $Y$ |  |  | 6 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pharmaceuticals: Type of test varsus species |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Y | 1 |

## B. Species and number of animals used

## The data

The details concerning the kind of animals used vary greatly from Member State to Member State.

Several Member States report groups of species, like "rodents and rabbits", or "dogs and cats".

Other Member States report very detailed information, giving the name of the species (e.g. "Quail : other species than Coturnix coturnix").

A particular problem concerning the zoological classification of the species was encountered : some classification systems place the Gibbons (Hylobates hoolock, H. lar, H. syndactylus, etc.) in the separate family of the Hylobatidae, which some naturalist would even exclude from the Anthropoïdea.

In order to handle these differences in the richness of the data details, a table was prepared to present all the figures reported by the Member States (table 2).

Some Member States reported species for which no animal was used.

- Chinese Hamsters (Cricetulus griseus)
- Camelids
- Other ungulates (not otherwise specified)
- Lemuridae
- New World Monkeys (not otherwise specified)
- Gibbons
- Pongidae (not otherwise specified)
- Octopus
- Cephalopods

To avoid confusion, these entries were not reported in Table 2.
In addition to the name of the species or group of species foreseen in the EU tables, more detailed data were introduced as needed, as well as the groups of species reported by some Member States. In table 2, the abbreviation "N.O.S." means "not otherwise specified".

Totals and sub-totals were also calculated (like "total rodents + lagomorphs") in order to provide a way to compare the data, at least for a certain level of grouping.

Table 2

| Mumber and lind of animele used in procedures in 1996 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Coundry: |  | B | DK | D | EL | E | F | IRL | 1 | L | NL | A | P | FIN | $s$ | UK | Totas |
|  | Animals: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Mico | 430,172 | 194.257 | 729.612 | 9,680 | 231,999 |  | 26.735 | 379.327 | 1,000 | 24,799 |  | 34,051 | 36,244 | 131,496 | 1,501,735 | 3.951.806 |
|  | Rats | 211,705 | 92,685 | 415,783 | 5,523 | 192,44 |  | 24,474 | 585,407 |  | 228,058 |  | 6,930 | 36,316 | 118,404 | 687,323 | 2,614,129 |
|  | Guineoplips | 40.656 | 11,907 | 50,050 | 1,280 | 28,824 |  | 1,531 | 57.050 |  | 11,956 |  | 3,080 | 1,904 | 10,807 | 103,273 | 321,137 |
|  | Golden Hametos (iococricatus mirmus) |  |  |  |  |  |  |  |  |  |  |  |  | 40 | 551 |  | 501 |
| M, O.s. | Hameders | 3.570 | 224 |  |  |  |  |  | 1.802 |  |  |  | 517 |  |  | 9,086 | 16,051 |
| Sub-Total | Totil 1 Hemem | 3,570 | 224 |  |  |  |  |  | 1,842 |  |  |  | 517 | 40 | 551 | 9,006 | 16,042 |
|  | Gentils | 10,845 |  |  |  |  |  | 118 |  |  |  |  |  |  |  | 7.84 | 18.612 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grouping |  |  |  |  |  |  |  |  |  |  |  | 183,940 |  |  |  |  | 183,040 |
| M.0.s. | Rodonts | 1.512 | 501 | 23,839 |  | 1,426 |  |  | 2,300 |  | 7,805 |  | 100 | 719 | 500 | 3.569 | 42,453 |
| Sub-Totair | Totel rocients | 008,540 | 290.574 | 1,219,278 | 16,402 | 453,040 |  | 52,858 | 1,036,786 | 1,000 | 491,319 | 183,940 | 45,497 | 75,223 | 261,758 | 2,313,487 | 7,140,770 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Rembits | 13,200 | 7,939 | 30.834 | 509 | 20,801 |  | 2,067 | 36,070 | 3 | 9,401 | 16,700 | 1,070 | 1,536 | 5,164 | 35,291 | 195,783 |
| Sub-Totel | Toull roderts + Lecomorph | 711.748 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | ,250,10 | 17,01 | - 1,00 |  | S4, 2 | 1,01,00 | , | 300,720 | 200,60. | -0,50\% | 76,90. | 200,62 | 2,560,750 | 7,346,562 |
|  | Cats | 204 | 169 | 1.010 |  | 88 |  | 181 | 270 |  | 44 | 2 | 8 | 5 | 302 | 1.500 | 4,352 |
|  | Bacoles |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.507 | 6.567 |
| Sub-Totel | Dops | 2,553 | 240 | 4.515 |  | 712 |  | 332 | 898 |  | 1.243 | 272 | 36 | 97 | 695 | 180 | 11,067 |
|  | Totul Dog | 2,553 | 246 | 4.515 | 2 | 712 |  | 332 | 809 |  | 1,243 | 272 | 36 | 97 | 605 | 6,747 | 18,436 |
|  | Fermes | 16 |  |  |  |  |  |  |  |  |  |  |  |  | 97 | 2,244 | 2,357 |
| Ma.S. | Carnivores | 46 | 1,293 | 362 |  | 12 |  |  |  |  | 78 |  |  | 146 | 92 | 2,400 | 4.507 |
| Sub-Totel | Total cambores | 2880 | 1,710 | 5,887 | 2 | 812 |  | 513 |  |  | 1,783 | 274 |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 5 | 1,254 |  | 1,703 | 274 | 4 | 240 | 1,206 | 12,00 | 20.002 |
|  | Hormen | 87 | 22 |  |  |  |  |  |  |  |  |  |  |  |  |  | 100 |
| M.O.S. | Horees, donkey mad croess breds |  |  | 182 |  | 10 |  | 190 | 173 |  | 346 |  | 7 | 252 | 22 | 802 | 1.905 |
| Sub-Total | Totall horres, donteys and croes brads | 87 | 22 | 182 |  | 10 |  | 189 | 173 |  | 348 |  | 7 | 252 | 22 | 802 | 2,104 |

Table 2 (continued)

| Mumber and kind of minmals used in procodures in $150 \%$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Country: |  | B | DK | D | EL | E | F | IRL | 1 | L | NL | A | P | FIN | s | UK | Totas |
|  | Animals: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Pros | 5,606 | 6,281 | 9,571 | 30 | 3,031 |  | 124 | 1,094 |  | 10,164 |  | 808 | 488 | 2,580 | 7,530 | 47,316 |
|  | Goots | 122 | 79 |  |  |  |  | 25 | 70 |  |  |  | 55 |  | 24 | 625 | 1.000 |
|  | Sheop | 1,811 | 80 |  |  |  |  | 1,010 | 342 |  |  |  | 1,225 |  | 148 | 17,524 | 22,150 |
| Grouping | Goats + Sheep |  |  | 2,238 | 98 | 2.032 |  |  |  |  | 4,327 |  |  | 518 |  |  | 9,211 |
|  | Doer |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 250 | 250 |
|  | Bovine catte | 1,428 |  |  |  | 53 |  |  |  |  | 3,026 |  | 382 | 839 | 267 |  | 5,005 |
| M.O.S. | Cantio |  | 558 | 2,035 |  |  |  | 1,198 | 189 |  |  |  |  |  |  | 5,602 | 9,058 |
| Groupina | Other ung on than bovine | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 18 |
| N.O.S. | Other ung aldes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub-Total | Totel Antiodectyla | 8,806 | 7,006 | 13.844 | 126 | 5,116 |  | 2,385 | 1,005 |  | 17.517 |  | 2,450 | 1.845 | 3.048 | 31,611 | 95,509 |
| N.O.S. | Procinions |  |  | 155 |  |  |  |  |  |  |  |  |  |  |  |  | 155 |
| Sub-Total | Total Prosimians |  |  | 155 |  |  |  |  |  |  |  |  |  |  |  |  | 155 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Mamosets, trmarins |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1,330 | 1,330 |
|  | Squircol, owl and spider monkeys |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 18 | 18 |
|  | Caboidma |  |  |  |  |  |  |  | 38 |  |  |  |  | 8 | 22 |  | 68 |
| Sub-Total | Total New World Monkeys |  |  |  |  |  |  |  | 38 |  |  |  |  | 8 | 22 | 1,348 | 1,416 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Maczques |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2.410 | 2.410 |
|  | Baboons |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 28 | 28 |
|  | Cercopithecoidae |  |  |  | 2 |  |  |  | 734 |  |  |  |  | 9 | 24 |  | 780 |
| N.O.S. | Old World Morneeys |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  | 18 |
| Sub-Total | Total Old World Monkeys |  | 18 |  | 2 |  |  |  | 734 |  |  |  |  | 9 | 24 | 2,438 | 3,225 |
| Grouping | Odd + Now World Monkeys |  |  | 1,364 |  |  |  |  |  |  |  | 116 |  |  |  |  | 1,460 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Chimpanzoes |  |  |  |  |  |  |  |  |  |  | 48 |  |  |  |  | 48 |
| Sub-Total | Total Graal Apes |  |  |  |  |  |  |  |  |  |  | 48 |  |  |  |  | 48 |
| Grouping | Pongidae + Gibbons (Hylobatidae? | 31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 31 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub-Total | Total Apes (Groat Apes + Gibbans) | 31 |  |  |  |  |  |  |  |  |  | 48 |  |  |  |  | 79 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Grouping | Cercopilthecidse + Pongidae | 569 |  |  |  | 53 |  |  |  |  |  |  |  |  |  |  | 622 |
| Sub-Total | Total Prosimiens + Monkoys + Apes | 600 | 18 | 1.519 | 2 | 53 |  |  | 772 |  | 1.082 | 164 |  | 17 | 46 | 3,786 | 8.059 |

Table 2 (continued)

| Humber and find of animals used in procedures in 1996 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Coundry: |  | B | DK | D | EL | E | F | IRL | 1 | L | NL. | A | P | FIN | 5 | UK | Totals |
|  | Animals: |  |  |  |  |  |  |  |  |  |  |  |  |  | . |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.O.S. | Mammals |  | 6 | 332 |  | 70 |  |  | 24 |  | 12 |  | 5 | 18 | 41 | 816 | 1,324 |
| Sub-Total | Totel mammals | 724,320 | 316,275 | 1,279,874 | 17,221 | 488,011 |  | 57,992 | 1,075,774 | 1,003 | 521,442 | 201,078 | 49,073 | 79,139 | 271,345 | 2,398,753 | 7,481,300 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Quall (Cotumbx coturnix) |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 317 | 317 |
| N.O.S. | Oum | 1,359 |  |  |  |  |  |  | 5 |  |  |  | 150 |  |  | 3,321 | 4,835 |
| Sub-Total | Total Cum | 1,359 |  |  |  |  |  |  | 5 |  |  |  | 150 |  |  | 3,638 | 5,152 |
|  | Tuntors |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3,417 | 3,417 |
|  | Hens, chickens (Gellus) | 52,708 |  |  |  |  |  |  |  |  |  |  |  |  |  | 96,010 | 148,718 |
| Grouping | Poifry |  |  |  |  |  |  | 94 |  |  |  |  |  |  |  |  | 94 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.O.S. | Binds | 915 | 9,347 | 94,793 | 129 | 17,736 |  |  | 9,213 |  | 86,071 |  | 179 | 1,912 | 3,178 | 10,626 | 234,039 |
| Sub-Totel | Totel binds | 54,982 | 9,347 | 94,793 | 129 | 17.736 |  | 94 | 9,218 |  | 86,071 |  | 329 | 1,912 | 3,178 | 113,691 | 391,480 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{array}{\|l} \hline \text { Grouphery } \\ \hline \text { Grouping } \\ \hline \end{array}$ | Chictrans + Sheep + Goeds + Pips + Bovino, etc. |  |  | $\cdots$ |  |  |  |  |  |  |  | 1,471 |  |  |  |  | 1,471 |
|  | Horses + bids |  |  |  |  |  |  |  |  |  |  | 118 |  |  |  |  | 118 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Reptios | 30 |  | 149 |  | 15 |  |  | 644 |  | 6 |  |  |  | 25 |  | 869 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Amphrbiens | 2,207 | 506 | 14,581 | 1,470 | 60 |  |  | 3,064 |  | 4,753 | 627 | 78 | 3,167 | 5,433 | 12,505 | 48,451 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Reinbow trouts |  |  |  |  |  |  |  |  |  |  | 352 |  |  |  |  | 352 |
| M.O.S. | Fish | 733,928 | 24,088 | 120,222 | 460 | 1,015 |  | 19,021 | 5,485 |  | 40,028 | 1.179 | 40 | 26,441 | 6,031 | 134,419 | 1,112,367 |
| Sub-Total | Totan fish | 733,928 | 24,098 | 120,222 | 460 | 1,015 |  | 19,021 | 5,485 |  | 40,028 | 1,531 | 40 | 26,441 | 6,031 | 134.419 | 1,112,719 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M.O.S. | Other animus | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 400 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | Totel ell minals | [1,515,867 | 350,226 | 1,509,619 | 19,280 | 506,837 |  | 77,107 | 1,094.185 | 1,003 | 652,300 | 204,825 | 49,520 | 110,659 | 286,012 | 2,659,368 | 9,036,808 |

Table 2 bis

| Number and kind of anlmals used in procedures in 1997 |  |  |
| :---: | :---: | :---: |
| Country: |  | F |
|  | Animals: |  |
|  | Mice | 1,787,200 |
|  | Rats | 432,739 |
|  | Guinoa-Pigs | 102,208 |
|  | Golden Hamsters (Mesocricotus auratus) | 18,342 |
| N.O.S. | Hamstors |  |
| Sub-Total | Total Hamsters | 19,342 |
|  | Gorbils |  |
| N.O.s. | Rodents | 6,142 |
| Sub-Total | Total rodents | 2,347,631 |
|  | Rabbits | 63,727 |
| Sub-Total | Total rodents + Legomorphs |  |
|  |  |  |
|  | Cats | 1,990 |
| N.O.s. | Dogs | 4,290 |
| Sub-Total | Total Dogs | 4,290 |
|  | Ferrots | 82 |
| N.O.8. | Carnvores | 183 |
| Sub-Total | Total camivores | 6,545 |
| N.O.S. | Horses, donkeys and cross breds | 2,174 |
|  | Pigs | 9,927 |
|  | Goats | 776 |
|  | Sheep | 3,541 |
|  | Bovine cattle | 1,636 |
| 8ub-Total | Total Artiodactyla | 15,880 |
| N.O.8. | Prosimians | 82 |
| 8ub-Total | Total Prosimians | 82 |
|  |  |  |
|  | Ceboideo | 88 |
| Sub-Total | Total Now Wortd Monkeys | 88 |
|  | Cercopithecoidae | 2.452 |
| Sub-Total | Total Old World Monkeys | 2,452 |
| N.O.8. | Groat Aper | 0 |
| Sub-Total | Total Prosimians + Monkeys + Apes | 2,622 |
| N.O.S. | Mammals | 67 |
| Sub-Total | Total mammals | 2,438,846 |
|  | Quaila (Coturnix coturnix) | 1,907 |
| N.O.8. | Birds | 65,745 |
| Sub-Total | Total birds | 67,652 |
|  | Reptiles | 48 |
|  | Amphiblans | 14,403 |
| N.O.S. | Fishes | 88,573 |
| Sub-Total | Total fishes | 88,573 |
| Total | Todalall animala | 2,809,322 |

## Treatment and interpretation of the data

The total number of animals reported for the year 1996 reaches $9,036,808$ animals for the fourteen reporting Member States.

In order to present graphically the relative percentage of species, certain grouping was made (table 3 and figure 1).

Figure 1


Artio- and Perissodactyla group horses, donkeys and cross-breds (Perissodactyla), pigs goats, sheep, deer and bovine cattle (Artiodactyla).

Rodents and rabbits represent the great majority ( $82 \%$ ) of animals used in laboratory procedures. Cold-blooded animals (fish, amphibians, etc.) represent $13 \%$.

Carnivores like cats and dogs represent $0.33 \%$ and the total of prosimians, monkeys and apes amounts for $0.09 \%$ of the animals used.

Table 3

| Number of animats: | B | DK | D | EL | E | F | IRL | 1 | L | NL | A | P | FIN | 5 | UK | Totals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rodents + Rabbilis | 711,748 | 307.513 | 1,258,110 | 17,091 | 481,950 |  | 54,925 | 1,071,856 | 1,003 | 500,720 | 200,640 | 46,567 | 76,759 | 266,922 | 2,348,758 | 7,344,562 |
| Cotd-blooded animats | 736,165 | 24,604 | 134,952 | 1,930 | 1,050 |  | 19,021 | 9,193 | 0 | 44,787 | 2,158 | 118 | 29,608 | 11,489 | 146,924 | 1,162,039 |
| Binds | 54,982 | 9,347 | 94,793 | 129 | 17,736 |  | 94 | 9,218 | 0 | 86,071 | 0 | 329 | 1.912 | 3,178 | 113,691 | 391,480 |
| Artio- + Perissodactyla | 9,073 | 7,028 | 14,026 | 126 | 5,126 |  | 2,554 | 1,868 | 0 | 17,865 | 0 | 2.457 | 2,097 | 3,070 | 32,413 | 97,703 |
| Camivores | 2,899 | 1,710 | 5,887 | 2 | 812 |  | 513 | 1,254 | 0 | 1,763 | 274 | 44 | 248 | 1,266 | 12,980 | 29,652 |
| Prosimians + Morkeys + Apes | 600 | 18 | 1,519 | 2 | 53 |  | 0 | 772 | 0 | 1,082 | 164 | 0 | 17 | 46 | 3,786 | 8,059 |
| Unctassified | 400 | - 6 | 332 | 0 | 70 |  | 0 | 24 | 0 | 12 | 1,589 | 5 | 18 | 41 | 816 | 3,313 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 1,515,867 | 350,226 | 1,509,619 | 19,280 | 506,837 |  | 77,107 | 1,094,185 | 1,003 | 652,300 | 204,825 | 49,520 | 110,659 | 286,012 | 2,659,368 | 036,808 |


| In percents of the total: | B | DK | D | EL | E | F | IRL | 1 | L | NL | A | P | FIN | S | UK | Means |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rodents + Rabbits | 46.95 | 87.80 | 83.34 | 88.65 | 95.09 |  | 71.23 | 97.96 | 100.00 | 76.76 | 97.96 | 94.04 | 69.37 | 93.33 | 88.32 | 81.27 |
| Cold-blooded animats | 48.56 | 7.03 | 8.94 | 10.01 | 0.22 |  | 24.67 | 0.84 | 0.00 | 6.87 | 1.05 | 0.24 | 26.76 | 4.02 | 5.52 | 12.86 |
| Binds | 3.63 | 2.67 | 6.28 | 0.67 | 3.50 |  | 0.12 | 0.84 | 0.00 | 13.20 | 0.00 | 0.66 | 1.73 | 1.11 | 4.28 | 4.33 |
| Artio- + Periseodactyla | 0.60 | 2.01 | 0.93 | 0.65 | 1.01 |  | 3.31 | 0.17 | 0.00 | 2.74 | 0.00 | 4.96 | 1.90 | 1.07 | 1.22 | 1.08 |
| Camivores | 0.19 | 0.49 | 0.39 | 0.01 | 0.16 |  | 0.67 | 0.11 | 0.00 | 0.27 | 0.13 | 0.09 | 0.22 | 0.44 | 0.49 | 0.33 |
| Prosimians + Monkeys + Apes | 0.04 | 0.01 | 0.10 | 0.01 | 0.01 |  | 0.00 | 0.07 | 0.00 | 0.17 | 0.08 | 0.00 | 0.02 | 0.02 | 0.14 | 0.09 |
| Unclassified | 0.03 | 0.00 | 0.02 | 0.00 | 0.01 |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 0.01 | 0.02 | 0.01 | 0.03 | 0.04 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Totals: | 100 | 100 | 100 | 100 | 100 |  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table 3 bis

| With data from France for year 1 | 1997 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of animals: | B | DK | D | EL | E | F | IRL | 1 | L | NL | A | P | FIN | 5 | UK | Totals |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rodents + Rebbits | 711,748 | 307,513 | 1,258,110 | 17,091 | 481,950 | 2,411,358 | 54,025 | 1,071,856 | 1,003 | 500,720 | 200,640 | 46,567 | 76,759 | 266,922 | 2,348,758 | 9,755,920 |
| Cold-blooded animals | 736,185 | 24,604 | 134,952 | 1,930 | 1,090 | 103,024 | 19,021 | 9,193 | 0 | 44,787 | 2,158 | 118 | 29,608 | 11,489 | 146,824 | 1,265,063 |
| Birds | 54,982 | 9,347 | 94,793 | 129 | 17,736 | 67,652 | 94 | 9,218 | 0 | 86,071 | 0 | 329 | 1,912 | 3,178 | 113,691 | 459,132 |
| Artio- + Perissodactyla | 9,073 | 7,028 | 14,026 | 126 | 5,126 | 18,054 | 2,554 | 1,868 | 0 | 17,865 | 0 | 2,457 | 2,097 | 3,070 | 32,413 | 115,757 |
| Camivores | 2,899 | 1,710 | 5,887 | 2 | 812 | 6,545 | 513 | 1,254 | 0 | 1,763 | 274 | 44 | 248 | 1,266 | 12,980 | 36,197 |
| Prosimians + Monkeys + Apes | 600 | 18 | 1,519 | 2 | 53 | 2,622 | 0 | 772 | 0 | 1,082 | 164 | 0 | 17 | 46 | 3,786 | 10,681 |
| Unclassified | 400 | 6 | 332 | 0 | 70 | 67 | 0 | 24 | 0 | 12 | 1,589 | 5 | 18 | 41 | 816 | 3,380 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Totals: | 1,515,867 | 350,226 | 1,509,619 | 19,280 | 506,837 | 2,609,322 | 77.107 | 1,094,185 | 1,003 | 652,300 | 204,825 | 49,520 | 110,659 | 286,012 | 2,650,368 | 11,646,130 |


| In percents of the total: | B | DK | D | EL | E | $F$ | IRL | 1 | L | NL. | A | P | FIN | S | UK | Means |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rodents + Rebbits | 46.95 | 87.80 | 83.34 | . 88.65 | 95.09 | 92.41 | 71.23 | 97.96 | 100.00 | 76.76 | 97.96 | 94.04 | 69.37 | 93.33 | 88.32 | 83.77 |
| Cold-blooded animals | 48.56 | 7.03 | 8.94 | 10.01 | 0.22 | 3.95 | 24.67 | 0.84 | 0.00 | 6.87 | 1.05 | 0.24 | 26.76 | 4.02 | 5.52 | 10.86 |
| Birds | 3.63 | 2.67 | 6.28 | 0.67 | 3.50 | 2.59 | 0.12 | 0.84 | 0.00 | 13.20 | 0.00 | 0.66 | 1.73 | 1.11 | 4.28 | 3.94 |
| Artio- + Perissodactyla | 0.60 | 2.01 | 0.93 | 0.65 | 1.01 | 0.69 | 3.31 | 0.17 | 0.00 | 2.74 | 0.00 | 4.86 | 1.90 | 1.07 | 1.22 | 0.98 |
| Camivores | 0.18 | 0.40 | 0.38 | 0.01 | 0.16 | 0.25 | 0.67 | 0.11 | 0.00 | 0.27 | 0.13 | 0.09 | 0.22 | 0.44 | 0.49 | 0.31 |
| Prosimians + Monkeys + Apes | 0.04 | 0.01 | 0.10 | 0.01 | 0.01 | 0.10 | 0.00 | 0.07 | 0.00 | 0.17 | 0.08 | 0.00 | 0.02 | 0.02 | 0.14 | 0.00 |
| Unclasestied | 0.03 | 0.00 | 0.02 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.78 | 0.01 | 0.02 | 0.01 | 0.03 | 0.03 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Totals: | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

If one considers only the warm-blooded animals, rodents and rabbits amount $93 \%$ of the total (figure 2).

Figure 2

Warm-blooded animals, in percents


Rodents + Rabbits
93.31\%

In table 4, a tentative was made to represent the forwarded data under the form of a EU table. Some groups of animals reported by some Member States cannot enter such classification, but the total of animals in the table represents $8,838,465$ cases out of 9,036,808 (97.8\%).

Table 4

| Species or group of specios | Number |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | B | DK | D | EL | E | F | IRL | 1 | L | NL | A | P | FIN | S | UK | Totals |
| Mice (Mus musculus) | 430,172 | 194,257 | 729,612 | 9,689 | 231,949 |  | 26,735 | 379,327 | 1,000 | 244,799 |  | 34,851 | 36,244 | 131,496 | 1,501,735 | 3,951,866 |
| Rats (Rattus norvegicus) | 211,785 | 92,685 | 415,766 | 5,523 | 192,848 |  | 24,474 | 595,407 |  | 226,659 |  | 6,939 | 36,316 | 118,404 | 687,323 | 2,614,129 |
| Guinea-Pigs (Cavia porcellus) | 40,656 | 11,907 | 50,059 | 1,280 | 26,824 |  | 1,531 | 57,850 |  | 11,956 |  | 3,090 | 1,904 | 10,807 | 103,273 | 321,137 |
| Hamsters (All species of hamsters) | 3,570 | 224 |  |  |  |  |  | 1,842 |  |  |  | 517 | 40 | 551 | 9,898 | 16,642 |
| Other Rodents (other Rodentia) | 12,357 | 501 | 23,839 |  | 1,428 |  | 118 | 2,360 |  | 7.905 |  | 100 | 719 | 500 | 11,238 | 61,065 |
| Rabbits (Oryctolagus cuniculus) | 13,208 | 7,939 | 38,834 | 599 | 28,901 |  | 2,067 | 35,070 | 3 | 9,401 | 16,700 | 1,070 | 1,536 | 5,164 | 35,291 | 195,783 |
| Cats (Felis catus) | 284 | 169 | 1,010 |  | 88 |  | 181 | 270 |  | 444 | 2 | 8 | 5 | 382 | 1,509 | 4,352 |
| Dogs (Canis familiaris) | 2,553 | 248 | 4,515 | 2 | 712 |  | 332 | 984 |  | 1,243 | 272 | 36 | 97 | 695 | 6,747 | 18,436 |
| Ferrets (Mustela putorius furo) | 16 |  |  |  |  |  |  |  |  |  |  |  |  | 97 | 2,244 | 2,357 |
| Other Carnivores (other Camivoria) | 46 | 1,293 | 362 |  | 12 |  |  |  |  | 76 |  |  | 146 | 92 | 2,480 | 4,507 |
| Horses, donkeys and cross breds (Equidae) | 87 | 22 | 182 |  | 10 |  | 199 | 173 |  | 348 |  | 7 | 252 | 22 | 802 | 2,104 |
| Pigs (Sus) | 5,606 | 6,281 | 9,571 | 30 | 3,031 |  | 124 | 1,094 |  | 10,164 |  | 808 | 488 | 2,589 | 7,530 | 47,316 |
| Goats (Capra) | 122 | 79 |  |  |  |  | 25 | 70 |  |  |  | 55 |  | 24 | 625 | 1,000 |
| Sheep (Ovis) | 1,811 | 90 |  |  |  |  | 1,010 | 342 |  |  |  | 1,225 |  | 148 | 17,524 | 22,150 |
| Cattle (Bos) | 1,428 | 556 | 2,035 |  | 53 |  | 1,196 | 189 |  | 3,026 |  | 362 | 839 | 287 | 5,682 | 15,653 |
| Prosimians (Prosimia) |  |  | 155 |  |  |  |  |  |  |  |  |  |  |  |  | 155 |
| New World Monkeys (Ceboidea) |  |  |  |  |  |  |  | 38 |  |  |  |  | 8 | 22 | 1,348 | 1,416 |
| Old World Monkeys (Cercopithecoidea) |  | 18 |  | 2 |  |  |  | 734 |  |  |  |  | 9 | 24 | 2,438 | 3,225 |
| Apes (Hominoidea) | 31 |  |  |  |  |  |  |  |  |  | 48 |  |  |  |  | 79 |
| Other Mammais (other Mammalia) |  | 6 | 332 |  | 70 |  |  | 24 |  | 12 |  | 5 | 18 | 41 | 1,066 | 1,574 |
| Quail (Coturnix cotumix) |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 317 | 317 |
| Other birds (other Aves) | 54,982 | 9,347 | 94,793 | 129 | 17,736 |  | 94 | 9,218 |  | 86,071 |  | 329 | 1,912 | 3,178 | 113,374 | 391,163 |
| Reptiles (Reptilia) | 30 |  | 149 |  | 15 |  |  | 644 |  | 6 |  |  |  | 25 |  | 869 |
| Amphibians (Amphibia) | 2,207 | 506 | 14,581 | 1,470 | 60 |  |  | 3,064 |  | 4,753 | 627 | 78 | 3,167 | 5,433 | 12,505 | 48,451 |
| Fish (Pisces) | 733,928 | 24,098 | 120,222 | 460 | 1,015 |  | 19,021 | 5,485 |  | 40,028 | 1.531 | 40 | 26,441 | 6,031 | 134,419 | 1,112,719 |
| TOTAL | 1,514,879 | 350,226 | 1,506,017 | 19,184 | 504,752 |  | 77,107 | 1,094,185 | 1,003 | 646,891 | 19,180 | 49,520 | 110,141 | 286,012 | 2,659,368 | 8,838,465 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Not above (grouping) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nice + Rats + Guinea-Pigs + Hamsters, etc. |  |  |  |  |  |  |  |  |  |  | 183,940 |  |  |  |  | 183,940 |
| Goats + Sheep |  |  | 2,238 | 96 | 2,032 |  |  |  |  | 4,327 |  |  | 518 |  |  | 9,211 |
| Other ungulates than bovine | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 |
| Old + New World Monkeys |  |  | 1,364 |  |  |  |  |  |  |  | 116 |  |  |  |  | 1,480 |
| Cercopithecidee + Pongidae | 569 |  |  |  | 53 |  |  |  |  |  |  |  |  |  |  | 622 |
| Chickens + Sheep + Goats + Pigs + Bovine, etc. |  |  |  |  |  |  |  |  |  |  | 1,471 |  |  |  |  | 1,471 |
| Apes + prosimians + other simians |  |  |  |  |  |  |  |  |  | 1,082 |  |  |  |  |  | 1,082 |
| Horses + birds |  |  |  |  |  |  |  |  |  |  | 118 |  |  |  |  | 148 |
| Other animals | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 400 |
| TOTAL | 988 |  | 3,602 | 96 | 2,085 |  |  |  |  | 5,409 | 185,645 |  | 518 |  |  | 198,343 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GENERAL TOTAL | 1,515,867 | 350,226 | 1,509,619 | 19,280 | [506,837 |  | 77,107 | 1,094,185 | 1,003 | 652,300 | 204,825 | 49,520 | 110,659 | 286,012 | 2,659,368 | 9,036,808 |

Table 4 bis

| Win data from France for year 1897 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Species or proup of epecies | 1988 | 1898 | 1988 | 1808 | 1806 | 19.7 | 1888 | 1898 | 1808 | 1898 | 1983 | 1806 | 1998 | 1898 | 1888 |  |
|  | B | DK | D | EL | E | F | WRL | I | L | ML | A | P | FiN | S | UK | Totals |
| Mice (kus muscuins) | 430,172 | 194,257 | 729,612 | 9,600 | 231,949 | 1,787,200 | 26,735 | 379,327 | 1,000 | 244,790 |  | 34,051 | 36,244 | 131,486 | 1,501,735 | 5,730,006 |
| Rems Rimis nonvoricus) | 211,785 | 92,605 | 415,788 | 5,523 | 192,848 | 432,739 | 24,474 | 505,407 |  | 228,050 |  | 6,939 | 36,316 | 118,404 | 687,323 | 3,046,868 |
| Guivee Pins (Cevla porcelius) | 40,056 | 11,007 | 50.059 | 1,280 | 28,824 | 102,200 | 1,531 | 57,850 |  | 11,956 |  | 3,000 | 1,804 | 10,007 | 103,273 | 423,345 |
| Hamatars (ANl spacios of hamstors) | 3,570 | 224 |  |  |  | 19,342 |  | 1,842 |  |  |  | 517 | 40 | 551 | 9,808 | 35,984 |
| Oher Rodents (0ther Rodentio) | 12,357 | 501 | 23,830 |  | 1,428 | 6.142 | 118 | 2,300 |  | 7,905 |  | 100 | 719 | 500 | 11,238 | 67,207 |
| Rabblts (Oryctolaqus cuniculis) | 13,208 | 7,939 | 38,634 | 589 | 28,901 | 63,727 | 2,067 | 35.070 | 3 | 0,401 | 16,700 | 1,070 | 1,536 | 5,164 | 35,291 | 250,510 |
| Cats (Folis cmus) | 284 | 160 | 1,010 |  | 88 | 1,900 | 181 | 270 |  | 444 | 2 | 8 | 5 | 382 | 1,509 | 6,342 |
| Dogs (Canis famitifers) | 2,553 | 248 | 4,515 | 2 | 712 | 4,290 | 332 | 804 |  | 1,243 | 272 | 38 | 97 | 605 | 6,747 | 22.726 |
| Ferres (Mustela putorice furo) | 16 |  |  |  |  | 82 |  |  |  |  |  |  |  | 97 | 2,244 | 2,439 |
| Other Camivores (Other Cerrivoria) | 46 | 1,293 | 362 |  | 12 | 183 |  |  |  | 76 |  |  | 146 | 92 | 2,460 | 4,600 |
| Horses, donkeys and cross breds (Equidae) | 87 | 22 | 182 |  | 10 | 2,174 | 198 | 173 |  | 348 |  | 7 | 252 | 22 | 802 | 4,278 |
| Pios (Sus) | 5,606 | 6,281 | 9,571 | 30 | 3,031 | 9,927 | 124 | 1,094 |  | 10,164 |  | 808 | 488 | 2.589 | 7,530 | 57,243 |
| Gowts (Capra) | 122 | 78 |  |  |  | 776 | 25 | 70 |  |  |  | 55 |  | 24 | 625 | 1,776 |
| Sheep (Ovis) | 1,811 | 90 |  |  |  | 3,541 | 1,010 | 342 |  |  |  | 1,225 |  | 148 | 17,524 | 25,091 |
| Catio (B0S) | 1,428 | 556 | 2,035 |  | 53 | 1,636 | 1,196 | 189 |  | 3,026 |  | 362 | 839 | 287 | 5,682 | 17,289 |
| Prosimians (Prosimia) |  |  | 155 |  |  | 82 |  |  |  |  |  |  |  |  |  | 237 |
| Now World Moniogys (Ceboidea) |  |  |  |  |  | 68 |  | 38 |  |  |  |  | 8 | 22 | 1,348 | 1,504 |
| Oid World Montioys (Cercopiltecoldea) |  | 18 |  | 2 |  | 2,452 |  | 734 |  |  |  |  | 9 | 24 | 2,438 | 5,677 |
| Apes (Hominoiden) | 31 |  |  |  |  |  |  |  |  |  | 48 |  |  |  |  | 79 |
| Other Mammals (Other Mammelia) |  | 6 | 332 |  | 70 | 67 |  | 24 |  | 12 |  | 5 | 18 | 41 | 1.066 | 1,641 |
| Quail (Coturnix coturnit) |  |  |  |  |  | 1,907 |  |  |  |  |  |  |  |  | 317 | 2,224 |
| Other binds (other Aves) | 54,982 | 9,347 | 94,793 | 129 | 17,736 | 65,745 | 84 | 9,218 |  | 86,071 |  | 329 | 1,912 | 3,178 | 113,374 | 456,908 |
| Reptiles (Reptilia) | 30 |  | 149 |  | 15 | 48 |  | 644 |  | 6 |  |  |  | 25 |  | 917 |
| Amphiolans (Amphibia) | 2,207 | 506 | 14,581 | 1,470 | 60 | 14,403 |  | 3,064 |  | 4,753 | 627 | 78 | 3,187 | 5,433 | 12,505 | 62.854 |
| Fish (Pisces) | 733,928 | 24,088 | 120,222 | 460 | 1,015 | 88,573 | 19,021 | 5,485 |  | 40,028 | 1,531 | 40 | 26,441 | 6,031 | 134,419 | 1,201,292 |
|  | 1,514,879 | 350,226 | 1,506,017 | 19,184 | 504,752 | 2,609,322 | 77,107 | 1,094,185 | 1,003 | 646,891 | 19,180 | 49,520 | 110,141 | 286,012 | 2,659,368 | 11,447,787 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Not above (crouping) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mice + Rats + Guinea-Pigs + Hamsters, eftc. |  |  |  |  |  |  |  |  |  |  | 183,940 |  |  |  |  | 183,940 |
| Gonts + Sheep <br> Other ungulates than bovine |  |  | 2,238 | 96 | 2,032 |  |  |  |  | 4,327 |  |  | 518 |  |  | 9,211 |
|  | 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 19 |
| (eld + Now World Monkeys |  |  | 1,364 |  |  |  |  |  |  |  | 116 |  |  |  |  | 1,480 |
|  | 569 |  |  |  | 53 |  |  |  |  |  |  |  |  |  |  | 622 |
| Chickens + Sheep + Goeds + Pigs + Bovine, etc. |  |  |  |  |  |  |  |  |  |  | 1,471 |  |  |  |  | 1.471 |
| Apes + prosimians + other simians <br> Horses + birds |  |  |  |  |  |  |  |  |  | 1,082 |  |  |  |  |  | 1,082 |
|  |  |  |  |  |  |  |  |  |  |  | 118 |  |  |  |  | 118 |
| Horses + birds <br> Other animals | 400 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 400 |
| TOTAL | 988 |  | 3,602 | 96 | 2,085 |  |  |  |  | 5,409 | 185,645 |  | 518 |  |  | 198,343 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GENERAL TOTAL | 1,515,867 | 1950,226 | 1,509,619 | 19,280 | 506,837 | 2,609,322 | 777,107 | 1,094,185 | 1,003 | 652,300 | 204,825 | 49,520 | 140,659 | 286,012 | 2,659,368 | 11,646,130 |

## C. Purposes of the procedures

## The data

Thirteen Member States reported the purposes of the procedures versus the species used.
For some Member States, the total of animals when reporting the purpose of the test is not the same as when reporting only the kind of animals. The total of animals when reporting the purposes of the tests is $8,819,712$ animals.

The terminology used when reporting the purposes varies from Member State to Member State, and it should be noted that the term 'other' has different meanings accordingly.

Table 5 lists the terms which were used as well as the Member States using them. For some Member States (Belgium, Denmark, Greece, Austria and Spain), the terms used are translated from the original languages.

## Treatment and interpretation of the data

Although knowing that there is a risk of misinterpretation, these different descriptions presented by the Member States were grouped according to table 6.

A tentative was made to represent the forwarded data under the form of a standard table (table 7). Some groups of animals cannot enter this classification : $31 \%$ of the reported cases do not fit in this table.

Classification based on other groups was searched, in order to include all the data reported; these groups are presented in table 8. From this last table, some graphical presentations were drawn (figures 3 and 4).

Table 5

|  | Countries | Terminology used when reporting the purposes |
| :---: | :---: | :---: |
| EU Table | $\begin{aligned} & \text { B, DK, IRL, P, } \\ & \mathrm{S}, \mathrm{UK} \end{aligned}$ | Biological studies of a fundernentar nature |
| EU Table | DK, S | Resemech and development $\alpha$ products and apparatus for human medicine and dentiatry |
| EU Table | DK, S | Production and quality controd of products and appardus for human medicine and dentistry |
| EU Table | DK, S | Recoarch and dewelopment of producta and apparatus for veterinary medicine |
| EU Table | DK. ${ }^{\text {S }}$ | Production and quality controd of producte and apperdus for veterinary medicine |
| EU Table | DK, P, S | Toxicological and other safoly eviluation linclucing serficty evaluation of products and appliances for human medicine and dentistry and velerinary medicine] |
| EU Table | $\begin{aligned} & \text { B, OK, D, EL, } \\ & \text { E, IRL, NL, P. } \\ & \text { FIN } \end{aligned}$ | Diagnosis of dilesese |
| EU Table | B, DK, EL, E, IRL, NL, P, FIN | Education and training |
| EU Table | $\begin{array}{\|l\|} \hline \text { B. DK, EL, IRL, } \\ \text { P, FIN } \\ \hline \end{array}$ | Other |
|  | A | Medical or training purpose |
|  | A | Protection of man or the emvironment |
|  | A | Reguletory ordinance purpoee |
|  | 8.1 | Reseerch and development and quelity control of products and apparatus for human and velerinary medicine and dentistry |
|  | B, IRL | Toxicological and other sefoty oviluation |
|  | B | Developrient of mutants and trans-genic orgmiams |
|  | 8 | Use of animids to keep and produce biological material |
|  | $\begin{aligned} & \text { NL, D, EL, E, } \\ & \text { FIN } \end{aligned}$ | Biocgical (including medical) studiee of a fundernertal neiture |
|  | EL, FIN | Reseerch into, dovelopment and quality control (not including safery ovaluationa) of products and applisnces for human and veterinary medicine |
|  | EL, FIN | Protection of man and the environment by soxicological or sefect evaluation (including serfoty evaluation of products or appliences for human and wherinary modicine) |
|  | IRL, P | Receerch, development and quality control od apparitus and products used in human medicine and dentistry |
|  | IRL, P | Receerch, development and quality control of apperatus and products used in veterinary medicine |
|  | RRL | Study of disemee |
|  | IRL | Immunological studies |
|  | D, E, NL | Discovery developmert and quelity control (including saficty evaluation) of products or appliances for human and veterinary medicine |
|  | D, E, NL | Protection of man, animals and their environment by toxicological or other saricty oveluation |
|  | $s$ | Receerch and development of products and devices for human medicine and dentistry and for veterinary medicine (excluding toxicological and other sededy ovaluations) |
|  | UK | Applied studiee - human medicine or dentistry |
|  | UK | Appliced studies - veterinery medicine |
|  | UK | Protection of man, animais or environment |
|  | UK | Education |
|  | UK | Training |
|  | UK | Forenalc enquiries |
|  | UK | Diruet diagnotic |
|  | UK | Breading |

Table 6

| Purposes: Grouping the descriptions used |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Table 7

| Kind of andmate and purpoea: grouping the purpocee dancriptiont |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Speckes or group of species |  |  |  | $\begin{aligned} & \text { diegnoin of } \\ & \text { dienece } \end{aligned}$ | $\begin{aligned} & \text { Edocerition and } \\ & \text { triening } \end{aligned}$ | Other | Total |
| Mice (Mus muscrilus) | 771,822 | 1,288,811 | 85,304 | 75,329 | 7.584 | 469,723 | 2,698,573 |
| Raty (Rattus norvecicus) | 391,291 | 935,946 | 148,010 | 9,177 | 11,579 | 241,014 | 1,737,017 |
| Guinee-Pigs (Cavie porcellus) | 16,451 | 132,037 | 35,078 | 2,717 | 449 | 13,457 | 200,189 |
| Hemeters (Al epecies of hamsters) | 8,481 | 6,428 | 850 | 55 | 215 | 573 | 16,802 |
| Other Rodents (other Rodentia) | 7,281 | 18,295 | 1,376 | 62 | 47 | 113 | 27,174 |
| Rebbits (Oryctoiequs cuniculus) | 18,782 | 35,530 | 33,701 | 6,233 | 1,809 | 26,445 | 122,509 |
| Cots (Falis catus) | 1,619 | 925 | 75 | 7 | 36 | 143 | 2,805 |
| Dope (Canis familiaris) | 741 | 7,778 | 2,828 | 28 | 328 | 68 | 11,867 |
| Ferrets (Mustela putorius furo) | 904 | 1,390 |  | 34 | 20 |  | 2,357 |
| Other Cornivorea (other Carnivoria) | 3,648 | 197 |  | 66 |  |  | 3,211 |
| Horiee, donkey and crons breda (Equidae) | 197 | 534 | 51 | 396 | 65 | 69 | 1,312 |
| Pins (Su4) | 8,276 | 5,827 | 608 | 888 | 1,483 | 5,952 | 24,032 |
| Goats (Capra) | 581 | 80 | 20 | 141 | 119 | 78 | 1,000 |
| Sheep (Ovis) | 9,620 | 7,105 | 11 | 2,929 | 712 | 1.828 | 22,205 |
| Catte (B08) | 3,309 | 4,207 | 49 | 1,075 | 97 | 908 | 9,645 |
| Procimians (Procimia) |  |  |  |  |  |  |  |
| Now Workd Monkeys (Ceboidea) | 389 | 982 | 12 |  |  | 25 | 1,408 |
| Oid World Monkeys (Cercopithecoidee) | 300 | 2,451 | 389 | 44 |  | 34 | 3,218 |
| Apee (Hominoide) | 31 | 245 | 211 |  |  | 183 | 670 |
| Other Mammels (other Mammalia) | 977 | 114 | 51 |  |  |  | 1.142 |
| Ouall (Coturnix colurnix) | 64 | 228 | 24 |  |  |  | 317 |
| Other birds (other Aves) | 64,528 | 68,027 | 6,202 | 6,408 | 936 | 45,423 | 190,522 |
| Repdies (Reptilia) | 674 |  |  |  |  | 25 | 698 |
| Amphibiens (Amphibia) | 14,487 | 93 | 5,680 | 50 | 4,018 | 94 | 24,402 |
| Fish (Pisces) | 175,444 | 23,385 | 54,090 | 8,207 | 1,681 | 661,768 | 224,553 |
| TOTAL | 1,500,877 | 2,540,612 | 374,700 | 112,840 | 31,178 | 1,467,922 | 6,028,129 |
|  |  |  |  |  |  |  |  |
| Not ebove (prouping) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Mice + Rats + Guinee-Pios + Hemeters, elc. |  |  | 149,680 |  | 34,260 |  | 183,940 |
| Reported as tcelal rodents + legomorphs | 608,375 | 1,227,069 | 82,528 | 223,572 | 19,147 | 451 | 2,159,142 |
| Other carnivoree, incl. group Cats + doge | 1,469 | 4,685 | 400 | 881 | 309 |  | 7,544 |
| Other uneulatee |  |  |  |  |  | 19 | 18 |
| Cercopithecidae + Ponqideo | 53 |  |  |  | 41 |  | 94 |
| Chikens + Sheep + Gonts + Pigs + Bovine, Ac. |  |  | 321 |  | 1,150 |  | 1.479 |
| Apes + procimians + other simians | 414 | 2,059 | 19 | 210 |  |  | 2,702 |
| Horwes + birds |  |  |  |  | 118 |  | 118 |
| Other animals | 97,584 | 129,022 | 151,795 | 51,064 | 5,751 | 1,337 | 438,553 |
|  |  |  |  |  |  |  |  |
| - Total 'not above' | 705,895 | 1,382,835 | 384,743 | 275.527 | 60,776 | 1,807 | 2,791,583 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Great total | 2,206,772 | 3,003,447 | 759,443 | 388,367 | 91,954 | 1,469,729 | 8,810,712 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Great total of enimale: | 8,819,712 |  |  |  |  |  |  |
| Toted in the frame: | 6,028,129 |  |  |  |  |  |  |
| Not in the frume: | 2,701,583 |  |  |  |  |  |  |

Table 8

| Kand of animale and purpoee: grouping the andimals, grouping the purpome |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Specios or group of apecles |  |  |  |  | ruming ind | Orem | Tomal |
| Rodends + Repbits | 1,820,483 | 3,64,125 | 630,627 | 317,146 | 75,000 | 751,776 | 7,146,140 |
| Cermiveres | 6,301 | 14,032 | 3,403 | 814 | 603 | 211 | 28,404 |
| Anto- + Pertseodacyia | 22,083 | 17,783 | 730 | 5,427 | 2,476 | 8,865 | 58,213 |
| Procmiens + Monkere + Apes | 1,187 | 3,737 | 631 | 24 | 41 | 242 | 6,092 |
| Einds | 64,602 | 68,250 | 6,228 | 6,408 | 95 | 46,423 | 100,830 |
| Fitan | 173,444 | 23,360 | 34,000 | 8,207 | 1,081 | 601,706 | 924,663 |
| Other cold-blooded then fith | 15,161 | 03 | 6,000 | 50 | 4,018 | 110 | 25,101 |
| Undagelifed | 06,601 | 120,130 | 156,167 | 61,094 | 7,010 | 1,337 | 439.264 |
|  |  |  |  |  |  |  |  |
| Tota | 2,206,772 | 3,203,447 | 750,443 | 386,307 | 01,034 | 1,460,729 | 8,810,712 |

## Figure 3

Purposes



Research and development, quality control of products and apparatus for human and veterinary medicine and dentistry represent $44 \%$ of the purposes for testing, followed by the fundamental research $25 \%$.

No conclusive trends may be drawn for the distribution of the species versus the purpose of the procedure (figure 4), except that rodents and rabbits are always the most used animals for all purposes.

## D. Toxicological and safety evaluations : kind of products

## The data

The data, as indicated in table 1, concern only 11 Member States. The cases reported here are a sub-set of the total of the animal experimentations. The total number of animals reported by the ten Member States is $1,043,327$.

Here also, the type of products or groups reported differs from Member State to Member State (table 9).

Table 9

|  | Toxicological evaluations: kind of products |
| :--- | :--- |
|  |  |
| B, EL, FIN, S | Human and veterinary medicine |
| B, DK, D, EL, E, NL, <br> P, FIN, S, UK | Agriculture |
| B, DK, E, NL, P, FIN, <br> S, UK | Industrial products |
| B, DK, E, NL, P, FIN, <br> S, UK | Household products |
| B, DK, E, NL, P, FIN, <br> S, UK | Cosmetics |
| B, DK, E, NL, P, FIN, <br> S | Food additives - human |
| B, OK, P, S | Food additive - animal |
| B, DK, P, UK | Tobacco products |
| B, DK, D, EL, E, NL, |  |
| P, FIN, S, UK | Other substances which could be harmful for the <br> environment |
| B, DK, IRL, P, S, UK | Other |
| D | Sum househoids + cosmetics + food additives <br> (human) + industrial products |
| HK, P | Human medicine and dentistry |
| VK, P | Veterinary medicine |
| IRL | Food |
| UK | Food additives + other foodstuff |
| UK | Pharmaceutical safety / efficacy evaluation + <br> medical devices safety |

## Treatment and interpretation of the data

Some Member States include items relating to medicine and pharmacy in the details, other do not. The description of the species is often limited to 3 main groups.

The totals of the figures are shown in table 10 ; no conclusions can be drawn, mainly because the item "medicine" is reported by seven Member States only.

## Table 10

| Number and kind of anim vorsus type of produ | $\begin{aligned} & \text { als used } \\ & \text { lets } \\ & \hline \end{aligned}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 8, \text { OK, EL, P, } \\ & \text { FNN, S, UK } \end{aligned}$ | $\begin{aligned} & \text { B, DK, D, EL, } \\ & \text { E, NL, P, FIN, } \\ & \mathbf{S}, \mathrm{UK} \end{aligned}$ | B, DK E, NL, P, FIN, S, UK | $\begin{aligned} & B, D K, E, N L \\ & P, F I N, S, U K \end{aligned}$ | $\begin{aligned} & \text { B, DK, E, NL, } \\ & \text { P, FIN, S, UK } \end{aligned}$ | B, DK, E, IRL, NL, P, FIN, S, UK | $\begin{aligned} & \text { B, DK, D, EL, } \\ & \text { E, IRL, NL, } \\ & \text { P, FIN, } \mathbf{8}, \mathrm{UK} \end{aligned}$ |  |
|  | $\begin{aligned} & \text { All medicine } \\ & \text { and phemacy } \end{aligned}$ | Agriculure | Inctuatrial | Howemold | Commeica | Allfood | Other unbetencee which could be hermul for the ervironmerk | All othere a cther graping |
| Animals: |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Rodents and lagomorphs | 478,797 | 84,514 | 85,103 | 2,062 | 4,823 | 8,745 | 14,199 | 101,108 |
| Camivores (cats, dogs) | 6,457 | 843 | 11 | 84 |  | 12 |  | 171 |
| Prosimian, Monkeys, Apes | 2,940 |  |  |  |  | 7 | 12 | 54 |
| All others | 35,739 | 39,121 | 11,113 | 424 |  | 4,408 | 128,981 | 35,621 |
| Total | 523,933 | 124,478 | 96,227 | 2,570 | 4,823 | 13,172 | 141,172 | 136,952 |
|  |  |  |  |  |  |  |  |  |
| Total on this table: | 1,043,327 |  |  |  |  |  |  |  |

## Important remark

The second row in table 10 indicates the Member States which have reported a number of animal used or no animal use for type of products.

## E. Number of animals used in procedures for studies on human and animal diseases : types of diseases versus species

## The data

As indicated in table 1, these data are reported by nine Member States only, reaching a total of $1,285,148$ animals. The terminology and the groups used for reporting are not the same, as shown in table 11. The species are most often limited to three main groups.

Table 11

| Type of diseases versus species |  |
| :--- | :--- |
|  |  |
| B, OK, ELL, E, IRL, NL, P, | Human cardiovascular diseases |
| FIN, S |  |

## Treatment and interpretation of data

In table 12, data were grouped according to what is common to the nine Member States reporting on this parameter, thus grouping in the same category "other" the human respiratory diseases, the other human diseases and the animal diseases.

Table 12

| Study of discasea: |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Species or group of species | Human cardiovencular discesset | Human nervous and mental disorders | Human cences (excluding ovaluation of carcinogenic havards) | All 'other' categories | Total |
| Total Rodents + Lagomorphs | 82,219 | 307,760 | 210,220 | 349,056 | 949,255 |
| Total dogs and cats | 679 | 186 | 6 | 1,646 | 2,517 |
| Prosimians + Monkeys + Apes |  | 83 | 43 | 450 | 576 |
| Other animals | 8,038 | 7,113 | 3,240 | 314,409 | 332,800 |
| Total | 90,936 | 315,142 | 213,509 | 665,561 | 1,285,148 |

By doing this, the category "other" reaches $51 \%$ of the cases. The only trend which is shown in table 12 and in figure 5 is that the studies on human nervous and mental disorders could use more animals than those concerning human cancers or cardiovascular diseases.

Figure 5

## Study of diseases



## 4. Situation in the Member States

## BELGIUM

## Comments made by Belgian authorities

The Belgian authorities have provided information relating to the comparison of the data between 1995 and 1996.

Representativeness for 1996 : the statistical data provided by the Belgian institutions are reported to reach 99.7\%.

1. Reduction of almost $8 \%$ of the total number of experimental animals used.
2. Reduction of almost $44 \%$ of the number of rodents (rats and mice).
3. Reduction of $47 \%$ of the number of cats.
4. Slight decrease ( $3.3 \%$ ) of the number of dogs.
5. Increase of the number of agriculture animals used :

- pigs: $133 \%$
- sheep: 53 \%
- bovines: $84 \%$

6. Increase of $180 \%$ of the use of primates.

This increase however concerns essentially the use of imported cercopithecoidea from which a substantial part is intended for the development, the manufacturing and the control of human vaccines such as antipolyo vaccine. This use means rapid sacrifice for the supply of organs and manipulations causing little pain.
7. The number of poultry used remains stable.
8. Increase of $124 \%$ of use of fish (concerns only a limited number of users).

The number of experimental animals used is globally showing a favourable decrease trend of almost $10 \%$ between 1995 and 1996, taking into account the more complete data for 1996.

The number of companion animal species used is also decreasing, but more so for cats than for dogs.

The use of primates remains important, apparently even increasing, however this use concerns essentially imported cercopithecoidea which are intended for the development, the manufacturing and the control of very important human vaccines. These importations are not continuous but are occurring by batches and the use of primates may overlap from one year to the next.

Finally the trend in the use of experimental animals would seem to show a shift from "sensitive" species as perceived by the general public such as companion animal species towards less "sensitive" species such as animals used in agriculture i.e. the pigs.

## Statistical data submitted

The statistical data have been submitted by the "Ministère des Classes Moyennes et de l'Agriculture" (Ministry of Middle Classes and Agriculture).

The statistical data of Belgium are essentially following the preceding tables of the Commission (see Introduction). Tables 2B and 4 are in accordance with national requirements.

Table 1 number of animals used in experiments for selected purposes (purposes versus species)
Table 2A number of animals used in experiments for studies on human and animal diseases (diseases versus species)

Table 2B number of animals used in experiments for studies on human and animal diseases (diseases versus regulatory requirements)
Table $3 \dot{\mathrm{~A}} \quad$ number of animals in toxicological and other safety evaluations (types of tests versus species)
Table 3B number of animals in toxicological and other safety evaluations (products versus species)

Table 3C number of animals in toxicological and other safety evaluations (products versus types of tests)

Table 3D number of animals in toxicological and other safety evaluations (types of tests versus regulatory requirements)

Table 4 number of animals used for the maintenance and the production of biological material (types of biological material versus species).

TABLE 1. NUMBER OF ANIMALS USED IN EXPERIMENTS FOR SELECTED PURPOSES BELGIUM 1996


TABLE 2A: NUMBER OF ANIMALS USED IN EXPERIMENTS FOR STUDIES ON HUMAN AND ANIMAL DISEASES BELGIUM 1996

| CATEGORIES <br> Specips | Human cardiovescutar diseases | Human respiratory disaases | Human nervous and mental disorders | Human cancer (oxcluding evaluations of carcinogenic hazards) | Other human diseases | Animal diseases | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mice | 8.697 | 5.621 | 53.811 | 33.395 | 215.399 | 14.399 | 331.322 |
| Rets | 14.194 | 4.283 | 46.903 | 6.611 | 83.551 | 295 | 155.817 |
| Oufiea-Pigs | 1.355 | 3.083 | 2.144 | 2 | 30.711 | 1.442 | 38.737 |
| Hemstera | 168 | 157 |  |  | 232 | 2.283 | 2.840 |
| Gerblls |  |  | 5.371 | 2.690 | 716 | 2.048 | 10.826 |
| Other Rodente |  |  |  |  | 1.204 |  | 1.204 |
| Raboits | 693 | 807 | 130 | 180 | 1.788 | 459 | 4.057 |
| Cets |  |  | 9 |  | 40 | 104 | 153 |
| Dogs | 470 | 80 | 16 | 4 | 162 | 384 | 1.116 |
| Ferrets |  |  |  |  | 16 |  | 16 |
| Other Camivores |  |  | 23 |  |  | 23 | 46 |
| Horses |  |  |  |  |  | 20 | 20 |
| Pige | 454 | 10 |  |  | 25 | 760 | 1.249 |
| Goats |  |  |  |  |  | 3 | 3 |
| Sheep | 82 |  |  |  | 75 | 177 | 334 |
| Bovine cattio |  |  |  |  |  | 713 | 713 |
| Other ungulates |  |  |  |  | . |  | 0 |
| Prmaties: <br> a) Prosimians (Lemuridas) |  |  |  | - |  |  |  |
| b) Gibbons + Pongldae |  |  |  |  |  |  |  |
| c) Other Cercopithecidae (Ceboldas) |  |  | 10 |  | 407 |  | 417 |
| Other Mammals |  |  |  |  |  |  | 0 |
| Ouall |  |  |  |  | 220 |  | 220 |
| Hens, chickens |  |  |  |  | 6 | 4.740 | 4.746 |
| Other Birds |  |  |  |  | . 103 | 592 | 695 |
| Reptiles |  |  |  |  |  |  | 0 |
| Amphibians |  |  |  |  |  |  | 0 |
| Fiath |  |  | 10 |  |  | 555 | 565 |
| Other animals |  |  |  |  |  |  | 0 |
| TOTAL | 26.113 | 14.021 | 108.427 | 42.882 | 334.655 | 28.988 | 555.086 |

TABLE 2B: NUMBER OF ANIMALS USED IN EXPERIMENTS FOR STUDIES ON HUMAN AND ANIMAL DISEASES BELGIUM 1996

| Categories <br> Regulatory requirements | Human cardiovascular diseases | Human respiratory diseases | Human nervous and mental disorders | Human cancer (excluding evaluations of carcinogenic hazards) | Other human diseases | $\underset{\text { diseases }}{\text { Animal }}$ diseases | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| National regulations only | 580 |  | 256 | 1.919 | 2.129 | 4.213 | 9.097 |
| EU legislation | 72 |  |  | 1.800 | 107 | 12.131 | 14.110 |
| Other international legislation |  |  |  |  |  |  | 0 |
| Any combination of above | 200 |  | 2.527 | 4.835 | 114.348 | 465 | 122.375 |
| No regulatory requirements | 28.028 | 11.328 | 104.699 | 34.393 | 211.624 | 11.835 | 401.907 |
| TOTAL | 28.880 | 11.328 | 107.482 | 42.947 | 328.208 | 28.644 | 547.489 |

TABLE 3A: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS BELGIUM 1996

| Types of tests | Acute (14 days) and sub-acute (28 days) toxicity, intalation, ored and dermal |  |  |  | Skinsenattiantton |  | Sub-chronic and chronic toxicity (more than 28 days) |  |  |  |  | Toxicity to weter. | Other | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { LO50 } \\ & \text { LC50 } \end{aligned}$ | Other lethal methods | Non lethal ctinical signs. methods |  |  |  |  | Carch noge nicity | Devalopromila tradily | Mitr genicky |  |  |  |  |
| Nues | 600 | 428 | 1.598 |  |  |  | 647 |  |  | 1.004 |  | 13.310 | 1.913 | 19.579 |
| Res | 24 | 1.029 | 3.734 |  |  |  | 1.959 | 3.257 | 1.009 | 122 | 1.255 |  | 4.322 | 16.711 |
| Guinea-Pigs |  | 60 | 32 |  | 42 |  |  |  |  |  |  | 4.370 | 363 | 4.867 |
| Hameters |  |  | 163 |  |  |  |  | 58 |  |  |  |  |  | 224 |
| Gertis |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Opmer Rodents |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Rabbits |  | 100 | 483 | 73 | 4 | 14 | 198 |  | 250 |  |  | 609 | 1.273 | 3.012 |
| Cats |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Dogs |  | 21 | 587 |  |  |  | 277 |  |  |  |  |  | 23 | 908 |
| Ferrets |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Oever Camivores |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Horces |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Pigs |  |  | 46 |  |  |  |  |  |  |  |  |  | 4 | 50 |
| Conts |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Streep |  |  |  |  |  |  |  |  |  |  |  |  | 11 | 11 |
| Bovine cattie |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Orrer ungulates |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Pifnames: <br> a) Prowimians (Lerruridae) <br> b) Gbbons + Pongides <br> ct Other Cercopithecldere (Ceboidse) |  | 4 | 3 |  | . |  | 40 |  | . |  |  | 187 |  | 234 |
| Owher Mammals |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Guail |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Hens, chickens |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Onter Birds |  |  |  |  |  |  |  |  |  |  |  |  | . | 0 |
| Rapties |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Anphibians |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| Fish |  | 600 |  |  |  |  | 600 |  |  |  |  | 438 |  | 1.638 |
| Other mimals |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| TOTAL | 624 | 2.240 | 6.680 | 73 | 48 | 14 | 3.719 | 3.315 | 1.259 | 1.208 | 1.255 | 18.814 | 7.909 | 47.234 |

TABLE 3B: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS BELGIUM 1996

| Sedry ovinalions of <br> Specios | products or apploror ows for human medicine and dentutry and vempinary medicine | products used or intended to be ued mainly in egreature | products used or interded to be uned metrily in induaty | products uned or intended to be und mainty in the houmhoid | products used or intended to be uned mainly 20 commatics or tolletries | products used or intended to be und mainly as additiven in food for himan consumption | products uned or intmided to te unad mainly 35 addives in food for nimal consump tion | Tobacco products | Potential contamit nents in the general environment which do not appear in other columns | Other toxicological or safety ovalustions | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nice | 22436 |  | 605 |  |  |  |  |  |  | 7 | 23.048 |
| Rutis | 15.375 | 24 | 22 |  |  | 79 | 409 | 520 |  | 372 | 16.801 |
| Gumee-Pige | 4.091 |  |  |  |  |  |  |  |  |  | 4.891 |
| Hamaters | 46 |  | 136 |  | 58 |  |  |  |  |  | 240 |
| Cortils |  |  |  |  |  |  |  |  |  |  | 0 |
| Other Rodents |  |  |  |  | - |  |  |  |  |  | 0 |
| Rathis | 3.137 |  |  |  |  |  |  |  |  |  | 3.137 |
| Cos |  |  |  |  |  |  |  |  |  |  | 0 |
| Doge | 925 |  |  |  |  |  |  |  |  |  | 925 |
| Ferres |  |  |  |  |  |  |  |  |  |  | 0 |
| Other Camivores |  |  |  |  |  |  |  |  |  |  | 0 |
| Horees |  |  |  |  |  |  |  |  |  |  | 0 |
| Pres | 100 |  |  |  |  |  |  |  |  |  | 100 |
| Gome |  |  |  |  |  |  |  |  |  |  | 0 |
| Sheep | 11 |  |  |  |  |  |  |  |  |  | 11 |
| Bovine came | 17 |  |  |  |  |  |  |  |  |  | 17 |
| Other ungudetes |  |  |  |  |  |  |  |  |  |  | 0 |
| Pitrineties: <br> a) Procinname (Lemuridas) <br> b) Cremons + Pongidee <br> c) Other Cercoptthecidies (Ceboides) | 234 |  |  |  |  |  |  |  |  |  | 234 |
| Other Mammaly |  |  |  |  |  |  |  |  |  |  | 0 |
| Oual |  |  |  |  |  |  |  |  |  |  | 0 |
| Henes, chickers |  |  |  |  | - |  |  |  |  |  | 0 |
| Other Burds | 20 |  |  |  |  |  |  |  |  |  | 20 |
| Ruptios |  |  |  |  |  |  |  |  |  |  | 0 |
| Anphbins |  |  |  |  |  |  |  |  |  |  | 0 |
| Fith | 422 | 1277 |  |  |  |  |  |  | 288 |  | 1.987 |
| Other animats |  |  |  |  |  |  |  |  |  |  | 0 |
| TOTAL | 47.614 | 1.301 | 763 | 0 | 58 | 79 | 409 | 520 | 288 | 379 | 51.411 |

TABLE 3C: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS BELGIUM 1996

| Surdy ovalutions of <br> Specine | products or applioncas for human medicine and dentiastry and veterinary medicine | products used or intended to be ueed mainty in agrionturs | products used or intended to be uned mainly in induasty | products used or intended to be unad meinly in the houeshold | products ueced or intended to be uned malnly as coernetics or tolvaties | products used or intended to be uned mandy ta addivives in food for turmen conaump tion | products used or intenced to be tand moinly es additues in tood for tonlmal conaumption | Tobacco products | Potential contaminents in the general envirenment which do not eqperer in other cohmas | Other toxicological or safety ovalustions | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { LDS0 } \\ & \text { LC50 } \end{aligned}$ | 600 | 624 |  |  |  |  |  |  |  |  | 1.224 |
| Other lethel mathods | 1.058 |  |  |  |  |  |  |  |  |  | 1.658 |
| Mon lethal clinical slone matiode | 7232 | 14 | 522 |  |  |  |  |  |  |  | 7.788 |
| Sxin intitution | 73 |  |  |  |  |  |  |  |  |  | 73 |
| Exin senelitation | 46 |  |  |  |  |  |  |  |  |  | 46 |
| Eye intuation | 14 |  |  |  |  |  |  |  |  |  | 14 |
| Sub-chronic and chronic toxiclly | 2.550 | 600 |  |  |  |  |  | 520 |  | 49 | 3.719 |
| Carcinogenicky | 3.178 |  |  |  | 58 | 79 |  |  |  |  | 3.315 |
| Developmental troicly | 850 |  |  |  |  |  | 409 |  |  |  | 1.259 |
| Mutagenicty | 985 |  | 241 |  |  |  |  |  |  |  | 1.208 |
| Reproductive | 1.255 |  |  |  |  |  |  |  |  |  | 1.255 |
| Toxicky to weter |  |  |  |  |  |  |  |  | 238 |  | 238 |
| Other | 26.475 | 77 |  |  |  |  |  |  |  | 332 | 26.884 |
| TOTAL | 44.098 | 1.315 | 763 | 0 | 58 | 78 | 400 | 520 | 238 | 381 | 48.659 |

TABLE 3D: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS BELGIUM 1996

| Types of tests | Acute (14 days) and sub-acute (28 days) toxicity, inhalation, oral and dermal |  |  | Skin irritation | Skin sensitisation. | $\begin{gathered} \text { Eye } \\ \text { inri } \\ \text { tation } \end{gathered}$ | Sub-chronic and chronic toxicity (more than 28 days) |  |  |  |  | Tocicily to water | Other | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Regulatory requirements | $\begin{aligned} & \text { LD50 } \\ & \text { LC50 } \end{aligned}$ | Other lethal methods | Non lethal clinical signs methods |  |  |  | Sub-chronic and ctronic towicily | Carci-nogenicity | Davelopmental toxicity | Muta-genicity |  |  |  |  |
| National regulations | 600 |  | 18 |  |  |  | 649 |  |  |  |  |  | 31 | 1.298 |
| EU legistation | 624 |  | 19 | 7 | 4 | 3 |  |  |  |  |  | 6.006 |  | 6.663 |
| Other international legistation |  | 72 | 20 |  |  |  |  |  |  |  |  | 100 | 1.204 | 1.356 |
| Any combinstion of above |  | 1.518 | 5.147 | 66 | 42 | 11 | 2.550 | 3.257 | 850 | 1.206 | 1.255 |  | 19.086 | 34.988 |
| No regulatory requirements | . | 50 | 1.474 |  |  |  | 520 |  | 409 | 58 |  | 188 | 1.631 | 4.330 |
| TOTAL | 1.224 | 1.640 | 6.678 | 73 | 46 | 14 | 3.719 | 3.257 | 1.259 | 1.264 | 1.255 | 6.294 | 21.952 | 48.675 |

TABLE 4. NUMBER OF ANIMALS USED FOR THE MAINTENANCE AND PRODUCTION OF BIOLOGICAL MATERIAL BELGIUM 1996

| Type of biological matorial <br> Species | Production of neoplasm | Serums, vecoines, monoctonal and polycional antibodias | Production of infectious agents | Production of mutantis and tranegenic organisms | Production of other biological material | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mice | 439 | 15151 | 2201 | 1732 | 811 | 20334 |
| Pret | 16 | 198 | 787 |  | 870 | 1849 |
| Gunee-Plos |  | 438 | 33 |  | 193 | 684 |
| Hemetere |  |  | 574 |  | 1 | 575 |
| Carblls |  |  | 49 |  |  | 49 |
| Other Rodents |  |  | 70 |  |  | 70 |
| Reboits | 12 | 3416 | 14 |  | 126 | 3568 |
| Cets |  |  |  |  |  | 0 |
| Doge |  |  |  |  |  | 0 |
| Fentets |  |  |  |  |  | 0 |
| Owher Camivores |  |  |  |  |  | 0 |
| Horses |  | 1 | 4 |  | 22 | 27 |
| Pigs |  | 18 |  |  | 28 | 44 |
| Conts | 2 | 20 | 3 |  |  | 25 |
| Sheop | 6 | 6 | 10 |  | 33 | 55 |
| Bovine cattio | 58 |  | 54 |  | 6 | 118 |
| Orter ungulates |  |  |  |  |  | 0 |
| Primatan: <br> a) Prosimians (Lemuridas) |  |  | . | . |  |  |
| b) Clbbons + Pongidae |  |  |  |  |  |  |
| c) Other Cercopithecidee (Ceboidae) |  | 174 |  |  | 9 | 183 |
| Other Mammala |  |  |  |  |  | 0 |
| Quall |  |  |  |  |  | 0 |
| Hens, chickens |  | 248 | 175 |  | 41 | 464 |
| Oner Blods |  | . | 6 |  | 24 | 30 |
| Reptiles |  |  |  |  |  | 0 |
| Amphbians |  |  |  |  |  | 0 |
| Fion | 8463 |  |  |  |  | 8463 |
| Other animats |  |  |  |  |  | 0 |
| TOTAL | 8986 | 19868 | 3980 | 1732 | 2162 | 38518 |

## DENMARK

## Comments made by Danish authority

In addition to the tables 1 to 9 presented below, the Danish authority provided additional tables ensuring the comparability with the national tables previously used. A caveat is made about the comparison of data from one year to another and on the differences in what is recorded.

When comparing figures from before and after 1994, please note that the scope of the law on animal experiments was extended in 1994 to cover some mildly distressing tests, as the pain, suffering or fear caused by a needle being inserted into the animal's body is now regarded as the threshold for an activity to be covered by the rules for animal experiments. Activities involving pain, suffering or fear of this level or a higher level are regarded as animal experiments. This may have led to an increase in figures across the groups, but in particular it has led to an increase in the proportion of fish included in the total. Following an interpretation by the Ministry of Justice Ruling in a letter of 28 April 1997, however, a major part of fish (which are marked in connection with fishing tests) will be excluded from the statistics from 1997.

More detailed comments are made on the use of animals:
The figures show that a number of assumptions expressed by the public on the use of animals in experiments are inaccurate. Around $32 \%$ of the animals used have been involved in experiments in the field of basic biological research. A similar number have been used in connection with testing and developing medicines and medical products for humans and animals. $4 \%$ of the animals have been used in production and quality tests on medicines and medical products, and $5 \%$ have been used in toxicological tests. Almost $60 \%$ of the animals have been used in experiments carried out by industry, in particular by the pharmaceuticals industry. These tests are usually carried out in accordance with the legal requirements to carry out production and quality tests on new products or products already on the market. The number of animals used for production and quality tests other than those required by law is modest.

It is interesting to note that around half the animals used in tests relating to illnesses in humans and animals (a total of 175,113 ) have been used in studies into nervous and mental illnesses. Only $15 \%$ have been used in studies into illnesses in animals. The large number used in studies into nervous and mental illnesses is due to the fact that this is a very important field for the large Danish pharmaceuticals industry. It is surprising to note, however, that only just over 10\% of animals used in studies into illnesses have been used in cancer research.

A modest number of animals (a total of 17,277 or around $5 \%$ ) have been used in toxicological tests - rather fewer than anticipated. The number of animals used in the two potentially distressing toxicological tests, skin and eye irritation (so-called Draize tests) was 255 and 79 animals respectively, in particular rabbits, i.e. a very modest number, not least in the light of aspects of the public debate on animal experiments. The number of pigs used $(6,281)$ continues to rise, and more than half are used in basic
biological research. A modest number of pigs (360) have been used in toxicological tests. It must be assumed that they have replaced the use of dogs in this connection.

More than 75\% of the animals used in toxicological tests have been involved in tests on medicines for humans and animals. The other animals have mainly been used in tests on industrial chemicals, cosmetics and food and animal feed additives. A total of 692 animals, 202 rats and 490 guinea-pigs, have been used in toxicological tests on cosmetics. This corresponds to $0.2 \%$ of all the animals used in experiments.

The guinea-pigs have been used in tests for skin allergies, whereas the rats have been used in subacute and subchronic toxicological tests.

Of the 248 dogs used, half were used in toxicological tests, and the rest in basic biological research and in testing and developing medicines.

169 cats were used in 1996, in types of tests which could not be carried out on other species. A considerable number were used to develop feline vaccines.

## Statistical data submitted

The annual report on the statistics on experimental animals used in Denmark in 1996 has been submitted by "Dyreforsøgstilsynet" ( $\pm$ Inspection of experimental animals).

The format of Danish data for 1996 follows exactly the preceding tables of the Commission (see Introduction).

Table 1 Number of animals used in experiments for selected purposes (purposes versus species)
Table 2 Number of animals used in experiments for studies on human and animal diseases (main categories versus species)
Table 3 Number of animals used in production and quality control of products and apparatus for human medicine and dentistry and veterinary medicine (regulatory requirements versus species)
Table 4 Number of animals used in toxicological and other safety evaluations (products versus species)

Table 5 Number of animals used in toxicological and other safety evaluations (regulatory requirements versus species)
Table 6 Number of animals used in toxicological and other safety evaluations (types of tests versus species)
Table 7 Number of animals used in toxicological and other safety evaluations (types of tests versus products)

Table 8 Number of animals used in toxicological and other safety evaluations (types of tests versus regulatory requirements)
Table 9 Number of animals used in relation with their place of origin (origin versus species)

TABLE 1 :
NUMBER OF ANIMALS USED IN EXPERIMENTS FOR SELECTED PURPOSES DENMARK 1996

| 1.1 <br> Species: | 1.2 <br> Biological studies of a fundamental nature | 1.3 <br> Research and development of products and apparatus for human medicine and dentistry | 1.4 <br> Production and quality control of products and apparatus for human medicine and dentistry | 1.5 <br> Research and development of products and apparatus for veterinary medicine | 1.6 <br> Production and quality control of products and apparatus for veterinary medicine | 1.7 <br> Toxicological and other safaty evaluation [inchuding safity evahuation of products and appliances for human modicine and dentistry and veterinary medicine] | 1.8 <br> Dingnosis of disease | $1.9$ <br> Education and training | 1.10 <br> Other | $\begin{aligned} & 1.11 \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.a. Mice | 56.606 | 73.775 | 30.681 | 2.455 | 1.097 | 6.662 | 16.875 | 539 | 5.567 | 194.257 |
| 1.b. Rats | 23.227 | 35.829 | 22.856 | 0 | 5.462 | 3.786 | 692 | 626 | 207 | 92.685 |
| 1.c. Guinea-Pigs | 204 | 1.733 | 5.302 | 9 | 754 | 3.302 | 540 | 22 | 41 | 11.907 |
| 1.d. Hamsters | 219 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 224 |
| 1.e. Other Rodents | 170 | 331 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 501 |
| 1.f. Rabbits | 453 | 1.619 | 2.288 | 33 | 7 | 1.035 | 2.020 | 93 | 391 | 7.939 |
| 1.g. Cats | 65 | 14 | 15 | 22 | 0 | 0 | 2 | 0 | 51 | 169 |
| 1.h. Dogs | 24 | 78 | 0 | 0 | 0 | 128 | 0 | 18 | 0 | 248 |
| 1.i. Ferrets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.j. Other Carnivores | 1.076 | 0 | 0 | 197 | 0 | 0 | 20 | 0 | 0 | 1.293 |
| 1.k. Horses | 2 | 0 | 0 | 2 | 0 | 0 | 5 | 11 | 2 | 22 |
| 1.1. Pigs | 3.407 | 598 | 3 | 506 | 345 | 360 | 452 | 591 | 19 | 6.281 |
| 1.m Goats | 6 | 9 | 0 | 0 | 0 | 4 | 54 | 0 | 6 | 79 |
| 1.n. Shecp | 49 | 0 | 0 | 0 | 30 | 0 | 11 | 0 | 0 | 90 |
| 1.0. Bovine cattle | 365 | 3 | 0 | 3 | 114 | 0 | 27 | 35 | 9 | 556 |
| 1.p. Prosimians | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.q. New Worid Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.r. Old World Monkeys | 14 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 1.s. Apes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.t. Other Mammals | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1.u. Quail | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.v. Other Birds | 8.792 | 0 | 0 | 0 | 0 | 0 | 484 | 0 | 71 | 9.347 |
| 1.w. Reptiles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.x. Amphibians | 450 | 6 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 506 |
| 1.y. Fish | 16.701 | 0 | 0 | 1.047 | 0 | 2.000 | 4.350 | 0 | 0 | 24.098 |
| 1.z. TOTAL | 111.836 | 114.000 | 61.149 | 4.274 | 7.809 | 17.277 | 25.582 | 1.935 | 6.364 | 350.226 |

TABLE 2 :
NUMBER OF ANIMALS USED IN EXPERIMENTS FOR STUDIES ON HUMAN AND ANIMAL DISEASES
DENMARK 1996

| 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species: | Human cardiovascular diseases | Human respiratory diseases | Human nervous and mental disorders | Human cancer (excluding evaluations of carcinogenic hazards) | Other human diseases | Animal diseases | Total |
| 2.a. Mice | 666 | 414 | 65.070 | 18.510 | 19.439 | 19.672 | 123.771 |
| 2.b. Rats | 2.460 | 702 | 24.492 | 1.394 | 10.804 | 35 | 39.887 |
| 2.c. Guinca-Pigs | 0 | 489 | 200 | 0 | 1.024 | 621 | 2.334 |
| 2.d. Hamsters | 0 | 0 | 0 | 0 | 32 | 0 | 32 |
| 2.e. Other Rodents | 0 | 0 | 331 | 0 | 0 | 0 | 331 |
| 2.f. Rabbits | 1.297 | 34 | 0 | 4 | 361 | 163 | 1.859 |
| 2.g. Cats . | 1 | 0 | 34 | 0 | 44 | 24 | 103 |
| 2.h. Dogs | 0 | 0 | 23 | 0 | 46 | 0 | 69 |
| 2.i. Ferrets | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.j. Other Carnivores | 0 | 0 | 0 | 0 | 0 | 263 | 263 |
| 2.k. Horses | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.1. Pigs | 274 | 51 | 7 | 10 | 429 | 1.817 | 2.588 |
| 2.m Goats | 2 | 0 | 0 | 0 | 7 | 0 | 9 |
| 2.n. Sheep | 0 | 0 | 0 | 0 | 18 | 12 | 30 |
| 2.0. Bovine cattle | 0 | 0 | 0 | 3 | 0 | 211 | 214 |
| 2.p. Prosimians | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.q. New World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.r. Old World Monkeys | 0 | 0 | 0 | 0 | 12 | 0 | 12 |
| 2.s. Apes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.t. Other Mammals | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.u. Quail | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.v. Other Birds | 0 | 0 | 0 | 0 | 0 | 1.214 | 1.214 |
| 2.w. Reptiles | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.x. Amphibians | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.y. Fish | 0 | 0 | 0 | 0 | 0 | 2.397 | 2.397 |
| 2.z TOTAL | 4.700 | 1.690 | 90.157 | 19.921 | 32.216 | 26.429 | 175.113 |

TABLE 3:
NUMBER OF ANIMALS USED IN PRODUCTION AND QUALITY CONTROL OF PRODUCTS AND APPARATUS FOR HUMAN MEDICINE AND DENTISTRY AND VETERINARY MEDICINE

DENMARK 1996

| 3.1. <br> Species: | 3.2. <br> National regulations only | 3.3. <br> EU and EP regulations oaly | 3.4. EU third party regulations only | 3.5. <br> Non-EU third party regulations only | 3.6. <br> Any combination of 3.2/3.3/3.4/3.5 | 3.7. <br> No regulatory requirements | 3.8 <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3.a. Mice | 824 | 97 | 0 | 8.471 | 22.196 | 190 | 31.778 |
| 3.b. Rats | 24 | 5.796 | 0 | 64 | 22.434 | 0 | 28.318 |
| 3.c. Guinea-Pigs | 726 | 0 | 0 | 1.385 | 3.218 | 727 | 6.056 |
| 3.d. Hamsters | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.e. Other Rodents | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.f. Rabbits | 0 | 29 | 0 | 1.412 | 840 | 14 | 2.295 |
| 3.g. Cats | 2 | 3 | 0 | 10 | 0 | 0 | 15 |
| 3.h. Dogs | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.i. Ferrets | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.j. Other Carnivores | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.k. Horses | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.1. Pigs | 270 | 0 | 0 | 0 | 38 | 40 | 348 |
| 3.m Goats | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.n. Sheep | 0 | 0 | 0 | 0 | 0 | 30 | 30 |
| 3.0. Bovine cattle | 24 | 0 | 0 | 0 | 0 | 90 | 144 |
| 3.p. Prosimians | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.q. New Word Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.r. Old World Monkeys | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 3.s. Apes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.t. Other Mammals | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.u. Quail | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.v. Other Birds | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.w. Reptiles | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.x. Amphibians | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.y. Fish | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.2 TOTAL | 1.870 | 5.925 | 0 | 11.342 | 48.726 | 1.095 | 68.958 |

TABLE 4:
NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS
DENMARK 1996

| 4.1. <br> Species: | 4.2. <br> Products/ substances or applimeces for humen medicine and dentistry | 4.3. <br> Productsl substances or appliances for veterinary medicine | 4.4. <br> Products/ substances used or intended to be used mainly in agriculture | 4.5. <br> Products/ substances used or intended to be used mainly in industry | 4.6. <br> Products/ substances used or intended to be used mainly in the household | 4.7. <br> Products/ substances used or intended to be used mainly as cosmetics or toiletries | 4.8. <br> Products/ substances used or intended to be used mainly as additives in food for human consumption | 4.9. <br> Products/ substances used or intended to be used mainly as additives in food for nimal consumption | $\begin{gathered} \hline \text { 4.10. } \\ \text { Tobacco } \\ \text { products } \end{gathered}$ | 4.11. <br> Potential or actual contamincints in the general environment which do not appear in other columns | 4.12. <br> Other toxicological or safety evaluations | 4.13. <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4.a. Mice | 6.022 | 160 | 0 | 22 | 0 | 0 | 25 | 30 | 0 | 0 | 403 | 6.662 |
| 4.b. Rats | 2.301 | 0 | 0 | 563 | 0 | 202 | 201 | 65 | 0 | 0 | 454 | 3.786 |
| 4.c. Guinca-Pigs | 1.577 | 0 | 0 | 220 | 0 | 490 | 0 | 0 | 0 | 0 | 1.015 | 3.302 |
| 4.d. Hamsters | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.e. Other Rodents | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.f. Rabbits | 512 | 72 | 0 | 36 | 0 | 0 | 0 | 6 | 0 | 4 | 405 | 1.035 |
| 4.g. Cats | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.h. Dogs | 128 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |
| 4.i. Ferrets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.j. Other Carnivores | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.k. Horses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.1. Pigs | 352 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 360 |
| 4.m Goats | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 4.n. Sheep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.0. Bovine cattle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.p. Prosimians | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.q. New World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.r. Old World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.s. Apes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.L Other Mammals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.u. Quail | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.v. Other Birds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.w. Reptiles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.x. Amphibians | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0. | 0 | 0 |
| 4.y. Fish | 0 | 2.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.000 |
| 4.z. TOTAL | 10.982 | 2.232 | 0 | 841 | 0 | 692 | 226 | 101 | 0 | 4 | 2.289 | 17.277 |

TABLE 5:
NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS DENMARK 1996


TABLE 6:
NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS
DENMARK 1996

| 6.1. <br> Species: | 6.2. <br> Acute and sub-acute toxicity testing methods (including limit test) |  |  | 6.3. <br> Skin <br> irrita- <br> tion | $6.4 .$ <br> Skin sensitisation | 6.5. <br> Eye inritation | $6.6 .$ <br> Sub-chronic and chronic toxicity |  |  |  | 6.7. <br> Reproductive toxicity | 6.8. <br> Toxicity to aquatic vertebrates not inchuded in other columns | $6.9$ <br> Other | $6.10$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 6.2 .1 \\ \text { LD50, } \\ \text { LC50 } \end{gathered}$ | 6.2 .2 <br> Other <br> lethal methods | 6.2 .3 <br> Non lethal clinical signs methods |  |  |  | 6.6.1 <br> Sub-chronic and chronic toxicity | $\overline{6.6 .2}$ <br> Carcinogenicity | $\begin{gathered} \hline 6.6 .3 \\ \text { Develop- } \\ \text { mental } \\ \text { toxicity } \\ \hline \end{gathered}$ | 6.6.4 <br> Mutagenicity |  |  |  |  |
| 6.2. Mice | 116 | 3.454 | 1.946 | 0 | 0 | 0 | 158 | 0 | 0 | 356 | 0 | 0 | 512 | 6.542 |
| 6.b. Rets | 53 | 129 | 1.431 | 3 | 0 | 0 | 1.182 | 0 | 560 | 0 | 295 | 0 | 253 | 3.906 |
| 6.c. Guinca-Pigs | 0 | 0 | 722 | 45 | 2.255 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 280 | 3.302 |
| 6.d. Hamsters | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.e. Other Rodents | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.f. Rabbits | 0 | 0 | 133 | 207 | 4 | 79 | 8 | 0 | 128 | 0 | 0 | 0 | 476 | 1.035 |
| 6.g. Cats | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.h. Dogs | 0 | 0 | 2 | 0 | 0 | 0 | 122 | 0 | 0 | 0 | 0 | 0 | 4 | 128 |
| 6.i. Fernets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.j. Other Canivores | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.k. Horses | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.1. Pigs | 0 | 0 | 240 | 0 | 0 | 0 | 44 | 0 | 16 | 0 | 0 | 0 | 60 | 360 |
| 6.m Goents | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 6.n. Sheep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.e. Bovine catile | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.p. Prosimims | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.4. Now Woild Monkrys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.r. Old World Monloys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.s. Apes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.t. Other Mammals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.u. Quail | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.v. Other Birds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.w. Reptiles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.x. Amphibians | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.y. Fish | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.000 | 0 | 2.000 |
| 6.2. TOTAL | 169 | 3.583 | 4.474 | 255 | 2.259 | 79 | 1.514 | 0 | 704 | 356 | 2951 | 2.000 | 1.589 | 17.277 |

TABLE 7:
NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS
DENMARK 1996

| 7.1. <br> Products: |  | 7.2. <br> Acute and sub-acute toxicity testing methods (including limit test) |  |  | 7.3. <br> Skin <br> intita- <br> tion | 7.4. <br> Skin sensitisation | 7.5. <br> Eye irritstion | $7.6 .$ <br> Sub-chronic and chronic toxicity |  |  |  | 7.7. <br> Reproductive toxicity | 7.8. <br> Toxicity to aquatic vetobrates not included in other cohimis | 7.9. <br> Other |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 7.2 .1 \\ \text { LDSO, } \\ \text { LC50 } \end{gathered}$ | $\begin{gathered} 7.2 .2 \\ \text { Other } \\ \text { lethal } \\ \text { methods } \end{gathered}$ | $\overline{7.2 .3}$ <br> Nan lethal clinical signs mothods |  |  |  | 7.6.1 <br> Sub-chronic and chronic toxicity | 7.6.2 <br> Carcinogenicity | $\overline{7.6 .3}$ <br> Developmental toxicity | $\overline{7.6 .4}$ <br> Muta genicity |  |  |  |  |
| 7.a. | Products / substances or appliances for human medicine and dentistry | 156 | 3.573 | 3.508 | 44 | 859 | 0 | 1.240 | 0 | 381 | 356 | 0 | 0 | 931 | 11.048 |
| 7.b. | Products / substances or appliances for veterinary medicine | 0 | 0 | 172 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.000 | 60 | 2.232 |
| 7.c. | Products / substances used or intended to be used mainty in agriculture | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.d. | Products / substances used or intended to be used mainly in industry | 0 | 0 | 174 | 0 | 220 | 0 | 0 | 0 | 272 | 0 | 175 | 0 | 0 | $841 \stackrel{+}{\infty}$ |
| 7.e. | Products / substances used or intended to be used mainly in the household | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.f. | Products / substances used or intended to be used mainly as cosmetics or toiletries | 0 | 0 | 36 | 0 | 490 | 0 | 166 | 0 | 0 | 0 | 0 | 0 | 0 | 692 |
| 7.g. | Products / substances used or intended to be used mainly as additives in food for human consumption | 0 | 0 | 162 | 0 | 0 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 16 | 226 |
| 7.h. | Products / substances used or intended to be used mainly as additives in food for animal consumption | 0 | 0 | 101 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 101 |
| 7.i. | Tobacco products | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.j. | Potential or actual contaminents in the general environment which do not appear in other columns | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 7.k. | Other toxicological or safety evaluations | 13 | 10 | 375 | 186 | 690 | 58 | 60 | 0 | 51 | 0 | 120 | 0 | 570 | 2.133 |
| 7.1. | TOTAL | 169 | 3.583 | 4.528 | 234 | 2.259 | 58 | 1.514 | 0 | 704 | 356 | 295 | 2.000 | 1.577 | 17.277 |

TABLE 8:
NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS
DENMARK 1996

| $8.1 .$ <br> Regulatory requirements: |  | 8.2. <br> Acute and sub-acute toxicity testing methods (including limit test) |  |  | 8.3. <br> Skin <br> irrita- <br> tion | 8.4. <br> Skin sensitisation | 8.5. <br> Eye irritation | 8.6. <br> Sub-chronic and chronic toxicity |  |  |  | 8.7. <br> Reproductive toxicity | 8.8. <br> Toxicity to aquatic vertebrates not included in other cohums | $\begin{aligned} & 8.9 . \\ & \text { Other } \end{aligned}$ | $\begin{aligned} & \hline 8.10 . \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} 8.2 .1 \\ \text { LD50, } \\ \text { LC50 } \end{gathered}$ | 8.2 .2 <br> Other lethal methods | 8.2.3 <br> Nan lethal ctinical signs methods |  |  |  | 8.6.1 <br> Sub-chronic and chronic toxicity | 8.6.2 <br> Carcinogenicity | 8.6.3 <br> Developmental toxicity | $8.6 .4$ <br> Muta genicity |  |  |  |  |
| 8.a. | National regulations only | 156 | 3.286 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 175 | 0 | 50 | 3.697 |
| 8.b. | EU and EP regulations only | 0 | 0 | 860 | 31 | 660 | 21 | 426 | 0 | 597 | 60 | 0 | 0 | 30 | 2.685 |
| 8.c. | EU third party regulations only | 0 | 0 | 70 | 8 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 105 |
| 8.d. | Non-EU third party regulations only | 13 | 30 | 1.273 | 210 | 1.508 | 58 | 482 | 0 | 100 | 0 | 0 | 0 | 149 | 3.823 |
| 8.e. | Any combination of 8.a / 8.b/8.c/8.d | 0 | 267 | 1.775 | 6 | 36 | 0 | 378 | 0 | 7 | 296 | 0 | 0 | 774 | 3.539 |
| 8.f. | No regulatory requirements | 0 | 0 | 508 | 0 | 0 | 0 | 228 | 0 | 0 | 0 | 120 | 2.000 | 572 | 3.428 |
| 8.g. | TOTAL | 169 | 3.583 | 4.486 | 255 | 2.259 | 79 | 1.514 | 0 | 704 | 356 | 295 | 2.000 | 1.577 | 17.277 |

TABLE 9

## NUMBER OF ANIMALS USED IN RELATION WITH THEIR PLACE OF ORIGIN

DENMARK 1996

| $9.1$ <br> Species: | 9.2. <br> Animals coming from registered breeding or supplying establishments within the EU | 9.3. <br> Animals coming from other sources within the EU | 9.4. <br> Anmals coming from non-EU countries which are Parties to Convention ETS 123 of the Council of Europe | 9.5. <br> Animals coming from non-EU countries which are not Parties to Convention ETS 123 of the Council of Europe | 9.6. <br> Re-used animals | 9.7. <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9.a. Mice | 193.101 | 828 | 199 | 124 |  | 194.252 |
| 9.b. Rats | 93.335 | 241 | 150 | 0 |  | 92.726 |
| 9.c. Guinca-Pigs | 11.238 | 729 | 0 | 0 |  | 11.967 |
| 9.d. Hamsters | 224 | 0 | 0 | 0 |  | 224 |
| 9.e. Rabbits | 7.673 | 68 | 0 | 0 | 165 | 7.906 |
| 9.f. Cats | 164 | 5 | 0 | 0 | 10 | 179 |
| 9.g. Dogs | 202 | 0 | 34 | 12 | 6 | 254 |
| 9.h. Prosimians | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.i. New World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.j. Old World Monkeys | 4 | 0 | 0 | 14 | 0 | 18 |
| 9.k. Apes | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.1. Quail | 0 | 0 | 0 | 0 |  | 0 |
| 9.m TOTAL | 304.941 | 1.871 | 383 | 150 | 181 | 307.526 |

ETS 123 Council of Europe Convention of 24 of November 1986 conceming the approximation of the administrative rules of Member States for the protection of animals used for experiments and other scientific purposes with detailed rules in Annex II for housing and care of animals.

## GERMANY

## Comments made by German authorities

The legal basis for the collection of data is the Regulation of 1 April 1988 on vertebrate animals used in animal experiments. The tables which are added as an annex to this Regulation differ from the tables of the Council of Europe. Consequently the data provided to the Commission do not represent the full extent of the national statistics.

German authorities are also reminding the Commission that they do not collect data concerning the number of animals used for education and training purposes as well as experimental animals used for studies on human and animal diseases (Table 4 of the Council of Europe).

This derives from the reservation expressed by Germany for the ratification of the convention relating to Article 27 (2) b on the number of animals used for medical, education and training purposes also in relation to Article 28 (1) and (2) concerning submission and publication of the data.

The number of vertebrate animals necessary for experiments, which are collected according to the Regulation, has decreased from about 2.4 million to about 1.5 million from 1991 to 1996. This is a reduction of about $37 \%$. In 1996 the number of animals for experiments decreased by more than $8 \%$ in comparison to the previous year.

## Statistical data submitted

The statistical data of Germany have been submitted by the "Bundesministerium fur Ernährung, Landwirtschaft und Forsten" (Ministry for Food, Agriculture and Forestry).

The tables of statistics submitted by Germany for 1996 follow essentially the format of the Convention tables for the Council of Europe (ETS 123) (see Introduction).

The following tables have been provided :
Table 1 The numbers, kinds and sources of animals used in procedures
Table 2 The number of animals used in procedures for selected purposes
Table 3 The number of animals used in procedures for selected purposes for the protection of man, animals and the environment by toxicological or safety evaluation (including safety evaluation of products or appliances for human and veterinary medicine)

Table 5 The number of animals used in procedures required by law

Table 1

The numbers, kinds and sources of animals used in procedures during 1996 in Germany

|  | Total | From <br> breeding or user establ. registered within the Party | From ${ }^{1}$ other parties to the Convention |  | Reused |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Mice | 729.612 |  |  |  |  |
| Rats | 415.766 |  |  |  |  |
| Guinea pigs | 50.059 |  |  |  |  |
| Golden harnsters ${ }^{2 /}$ |  |  |  |  |  |
| Other rodents | 23.839 |  |  |  |  |
| Rabbits | 38.834 |  |  |  | 11.874 |
| Prosimians | 155 |  |  |  | 0 |
| New World Monkeys ${ }^{\text {² }}$ |  |  |  |  |  |
| Old World Monkeys ${ }^{\text {J }}$ | 1.364 |  |  |  | 256 |
| Apes | 0 |  |  |  | 0 |
| Dogs | 4.515 |  |  |  | 574 |
| Cats | 1.010 |  |  |  | 97 |
| Other carnivores | 382 |  |  |  |  |
| Horses, donkeys and cross breds | 182 |  |  |  |  |
| Pigs | 9.571 |  |  |  |  |
| Goats and sheeps | 2.238 |  |  |  |  |
| Cattle | 2.035 |  |  |  |  |
| Other mammals | 332 |  |  |  |  |
| Quail ${ }^{\prime \prime}$ |  |  |  |  |  |
| Other birds | 94.793 |  |  |  |  |
| Reptiles | 149 |  |  |  |  |
| Amphibians | 14.581 |  |  |  |  |
| Fish | 120.222 |  |  |  |  |
| Total | 1.509.619 |  |  |  |  |

The Order of 1 August 1988 on the notification of vertebrates used in experiments does not provide the legal basis for collecting information on the sources of animals.
2) Animals of this specis are counted under "other rodents".
3) New World and Old World Monkeys are counted together as "other simians".
4) These Animals are not counted separately, but under "birds".

Table 2

## The number of animals used in procedures for selected purposes during 1996 in Germany

|  |  |  | Selected species |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All species | Rodents and rabbits | $\begin{gathered} \text { Dogs and } \\ \text { cats } \end{gathered}$ | Primates |
| 1 | Biological (including medical) studies of a fundamental nature | 308.569 | 266.606 | 761 | 248 |
| 2 | Research into, development and quality control (including safety evaluation) of products or appliances for human and veterinary medicine | 739.948 | 707.035 | 3.765 | 1.127 |
| 3 | Diagnosis of disease ${ }^{\text {² }}$ | 247.453 | 198.396 | 658 | 204 |
| 4 | Protection of man, animals and the environment by toxicological or safety evaluation ${ }^{2}$ | 181.137 | 57.333 | 360 | 12 |
| 5 | Education and training ${ }^{3}$ |  |  |  |  |
| 6 | Others |  | - |  |  |

1 These data refer only to vertebrates used in procedures for research into or testing of methods of diagnosis, preventive or curative treatment.

2 These data include - in a relatively low proportion - also animals, which have not been used for safety evaluations in the proper sense, but f. ex. for efficacy testing.

3 The Animal Welfare Act of 1986 does not provide the legal basis to collect statistical information in this field.

## Table 3

The number of animals used in procedures for selected purposes for the protection of man, animals and the environment by toxicological or safety evaluation during 1996 in Germany
(including safety evaluation of products or appliances for human and veterinary medicine ')

|  |  |  | Selected species |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All species | Rodents and rabbits | Dogs and cats | Primates |
| 1 | Substances used or intended to be used mainly in agriculture | 41.903 | 23.764 | 286 | 0 |
| 2 | Substances used or intended to be used mainly in households ${ }^{1}$ | 58.417 | 26.648 | 74 | 0 |
| 3 | Substances used or intended to be used mainly as cosmetics or toiletries ${ }^{1}$ |  |  |  |  |
| 4 | Substances used or intended to be used mainly as additives in food for human consumption ${ }^{1}$ |  |  |  |  |
| 5 | Substances used or intended to be used mainly in industry which do not appear in rows 1, 2, 3 and $4^{1}$ |  |  |  |  |
| 6 | Potential or actual hazards of contaminants in the general environment which do not appear in the other rows | 80.817 | 6.921 | 0 | 12 |
| 7 | Safety evaluation of products or appliances for human or veterinary medicine ${ }^{1}$ |  |  |  |  |

1 Informations on this aspect are not collected separately.

## Table 5

## The number of animals used in procedures required by law during 1996 in Germany

|  |  |  |  | Selected species |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All species | Rodents and rabbits | Dogs and cats | Primates |
| 1 | Party only |  |  |  |  |  |
| 2 | Other Parties and other States | Other Parties or member States |  |  |  |  |
|  |  | Other States |  |  |  |  |
| 3 | Both (1 + 2): <br> Party and other Parties/States |  | 543.380 | 482.053 | 3.154 | 395 |
| 4 Total |  |  | 543.380 | 482.053 | 3.154 | 395 |

Note: These data refer to statutory testing for notification or authorization of substances or products.

## greece

## Statistical data submitted

The data submitted by Greece for 1996 have been provided by the Y $\pi$ ouppeıo


The data are presented in the format of the Convention tables for the Council of Europe (ETS 123) (see Introduction) with a little difference regarding the headings of the rows of Table 5 relating to the number of animals used in procedures for regulatory requirements.

Table 1 The numbers, kinds and sources of animals used in procedures
Table 2 The numbers of animals used in procedures for selected purposes
Table 3 The number of animals used in procedures for selected purposes for the protection of man, animals and the environment by toxicological or safety evaluation

Table 4 The number of animals used in procedures concerned with diseases and disorders

Table 5 The number of animals used in procedures required by law

TABLE 1

## THE NUMBERS, KINDS AND SOURCES OF ANIMALS USED IN PROCEDURES DURING 1996 IN GREECE

|  | TOTAL | From breeding or user establ. registered within the Party | From other parties to the Convention | From other sources | Re-used |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Mice (Mus musculatus) | 9.689 | 9.689 |  |  |  |
| Rats (Rattus norvegicus) | 5.523 | 5.323 | 200 |  |  |
| Guinea pigs (Cavia porcellus) | 1280 | 1.280 |  |  |  |
| Golden hamsters (Mesocricetus auratus) |  |  |  |  |  |
| Other rodents (other Rodentia) |  |  |  |  |  |
| Rabbits (Oryctolagus cuniculus) | 599 | 599 |  |  | 55 |
| Prosimians (Prosimia) | , |  |  |  |  |
| New World Monkeys (Ceboidea) |  |  |  |  |  |
| Old World Monkeys (Cercopithecoidea) | 2 |  | 2 |  |  |
| Apes (Hominoidea) |  |  |  |  |  |
| Dogs (Canis familiaris) | 2 | 2 |  |  |  |
| Cats (Felix catus) |  |  |  |  |  |
| Other carnivores (other Carnivora) |  |  |  |  |  |
| Horses, donkeys and cross breds (Equidae) |  |  |  |  |  |
| Pigs (Sus) | 30 | 30 |  |  |  |
| Goats \& Sheeps (Capra \& Ovis) | 96 | 96 |  |  |  |
| Cattle (Bos) |  |  |  |  |  |
| Other mammals (other Mammalia) |  |  |  |  |  |
| Quail (Coturnix coturnix) |  |  |  |  |  |
| Other birds (other Aves) | 129 | 129 |  |  |  |
| Reptiles (Reptilia) |  |  |  |  |  |
| Amphibians (Amphibia) | 1470 | 1470 |  |  |  |
| Fish (Pisces) | 460 | 460 |  |  |  |
| TOTAL | 19280 | 19.078 | 202 |  | 55 |

TABLE 2
THE NUMBER OF ANIMALS USED IN PROCEDURES FOR SELECTED PURPOSES DURING 1996 IN GREECE

|  |  |  | SELECTED SPECIES |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ALL SPECIES | Rodents and rabbits | Dogs and cats | Primates |
| 1 | Biological (including medical) studies of a fundamental nature | 2.773 | 2.574 |  | 2 |
| 2 | Research into, development and quality control (not including safety evaluation) of products or appliances for human and veterinary medicine | 165 | 165 |  |  |
| 3 | Diagnosis of disease | 11.402 | 11.341 |  |  |
| 4 | Protection of man, animals and the environment by toxicological or safety evaluation (including safety evaluation of products or appliances for human and veterinary medicine) | 1.724 | 1.724 |  |  |
| 5 | Education and training | 1.631 | 951 | 2 |  |
| 6 | Others | 1585 | 336 |  |  |

TABLE 3

THE NUMBER OF ANIMALS USED IN PROCEDURES FOR SELECTED PURPOSES FOR THE PROTECTION OF MAN, ANIMALS AND THE ENVIRONMENT BY TOXICOLOGICAL OR SAFETY EVALUATION DURING 1996 IN GREECE

|  |  |  | SELECTED SPECIES |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | ALL SPECIES | Rodents and rabbits | Dogs and cats | Primates |
| 1 | Substances used or intended to be used mainly in agriculture | 608 | 608 |  |  |
| 2 | Substances used or intended to be used mainly in households |  |  |  |  |
| 3 | Substances used or intended to be used mainly as cosmetics or toiletries |  |  |  |  |
| 4 | Substances used or intended to be used mainly as additives in food for human consumption |  |  |  |  |
| 5 | Substances used or intended to be used mainly in industry which do not appear in rows 1,2,3 and 4 |  |  |  |  |
| 6 | Potential or actual hazards of contaminants in the general environment which do not appear in the other rows | 3 | 3 |  |  |
| 7 | Safety evaluation of products or appliances for human or veterinary medicine | 1.113 | 1.113 |  |  |

THE NUMBER OF ANIMALS USED IN PROCEDURES CONCERNED WITH DISEASES AND DISORDERS DURING 1996 IN GREECE

|  |  | SELECTED SPECIES |  |  |  |
| :--- | :--- | :---: | :---: | :---: | :---: |
|  |  | ALL SPECIES | Rodents and rabbits | Dogs and cats | Primates |
| 1 | Human cancer (excluding evaluations of carcinogenic hazards) | 664 | 664 |  |  |
| 2 | Cardiovascular human diseases | 2.657 | 2.657 |  |  |
| 3 | Nervous and mental human disorders | 798 | 798 |  |  |
| 4 | Other human diseases | 6.577 | 6.577 |  |  |
| 5 | Animal diseases | 706 | 645 |  |  |

## TABLE 5

THE NUMBER OF ANIMALS USED IN PROCEDURES REQUIRED BY LAW DURING 1996 IN GREECE

|  |  | SELECTED SPECIES |  |  |  |
| :--- | :--- | :---: | :---: | :---: | :---: |
|  | ALL SPECIES |  | Rodents and rabbits | Dogs and cats | Primates |
| 1 | National legislation | 600 | 600 |  |  |
| 2 | European legislation | 25 | 25 |  |  |
| 3 | Other Parties legislation | 20 | 20 |  |  |
| 4 | National, European and other Parties legislation (1+2) | 76 | 76 |  |  |
| 5 | TOTAL | 721 | 721 |  |  |

## SPAIN

## Statistical data submitted

The statistical data for 1996 sent by Spain have been provided by the "Ministerio de Agricultura, Pesca y Alimentación, Dirección General de Sanidad de la Producción Agraria, Subdirección General de Sanidad Animal (Ministry of Agriculture, Fishing and Food, Directorate General of Agrarian Production Health, Subdirectorate General of Animal Health).

The statistical data follow essentially the Convention tables for the Council of Europe (ETS 123) (see Introduction).

Table 1 The numbers, kinds of animals used in procedures
Table 2 The numbers of animals used in procedures for selected purposes
Table 3 The number of animals used in procedures for selected purposes for the protection of man, animals and the environment by toxicological or safety evaluation

Table 4 The number of animals used in procedures concerned with diseases and disorders

Table 5 The number of animals used in procedures required by law

## TABLE 1

## THE NUMBER AND KINDS OF ANIMALS USED IN PROCEDURES DURING 1996 IN SPAIN

| Mice (Mus musculus) | 231.949 |
| :--- | ---: |
| Rats (Rattus norvegicus) | 192.848 |
| Guinea pigs (cavia porcellus) | 26.824 |
| Other rodents (other Rodentia) | 1.428 |
| Rabbits (Oryctolagus cuniculus) | 28.901 |
| Apes (Hominoidea) | - |
| Other Monkeys (cercopithecoidea and Ceboidea) | 53 |
| Prosimians (Prosimia) | - |
| Dogs (Canis familiaris) | 712 |
| Cats (Felix catus) | 88 |
| Other carnivores (other Carnivora) | 12 |
| Horses, donkeys and cross breds (Equidae) | 10 |
| Pigs (Sus) | 3.031 |
| Goats \& Sheeps (Capra and Ovis) | 2.032 |
| Cattle (Bos) | 53 |
| Other mammals (other Mamalia) | 70 |
| Birds (Aves) | 17.736 |
| Reptiles (Reptilia) | 15 |
| Amphibians (Amphibia) | 606.837 |
| Fish (Piscis) | 1.015 |
| TOTAL | 7. |

## TABLE 2

## THE NUMBER OF ANIMALS USED IN PROCEDURES FOR

 SELECTED PURPOSES DURING 1996 IN SPAINBiological (including medical) studies of a fundamental nature

Research into, development and quality control (including safety evaluation) of products or appliances for human and veterinary medicine

Diagnosis of disease
Protection of man, animals and the environment by toxicological or other safety evaluations

Education and training

| All species | 78.828 | 244.164 | 9.482 | 4.329 | 13.755 |
| :--- | :--- | :--- | :--- | :--- | :--- |

## Selected species

| Rodents and <br> rabbits | 76.441 | 237.919 | 8.004 | 4.024 | 11.351 |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Dogs and <br> cats | 168 | 14 | 11 | - | 38 |
| Primates | 22 | - | - | - | - |

## TABLE 3

THE NUMBER OF ANIMALS USED FOR SELECTED PURPOSES FOR THE PROTECTION OF MAN, ANIMALS AND THE ENVIRONMENT BY TOXICOLOGICAL OR OTHER SAFETY EVALUATIONS DURING 1996 IN SPAIN

| Further classification of item 4 of Table 2 |  |
| :--- | :--- |
| Substances used or intended to be used mainly in agriculture |  |
| Substances used or intended to be used mainly in industry |  |
| Substances used or intended to be used mainly in households |  |
| Substances used or intended to be used mainly as cosmetics or <br> toiletries |  |
| Substances used or intended to be used mainly as additives in food <br> for human consumption |  |
| Potential or actual hazards of contaminants in the general <br> environment |  |


| All species | 101 | 746 |  |  | 1.126 | 1.767 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Selected species

| Rodents and <br> rabbits | 101 | 441 | - | 1.126 | 1.235 |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Dogs and <br> cats | - | - | - | - | - |
| Primates | - | - | - | - | - |

## TABLE 4

## THE NUMBER OF ANIMALS USED IN PROCEDURES CONCERNED WITH DISEASES AND DISORDERS DURING 1996 IN SPAIN

| Cancer (excluding evaluations of carcinogenic <br> hazards) |  |
| :--- | :--- |
| Cardiovascular diseases |  |
| Nervous and mental disorders |  |
| Other human diseases and animal diseases |  |


| All species | 5.259 | 9.570 | 40.719 | 94.413 |
| :--- | :--- | :--- | :--- | :--- |

## Selected species

| Rodents and <br> rabbits | 4.259 | 8.316 | 38.675 | 88.291 |
| :--- | ---: | ---: | ---: | ---: |
| Dogs and cats | 85 | 87 | 44 | 206 |
| Primates | - | - | - | 31 |

Note:
When a procedure covers cancer under any item from 2 to 4, the cancer classification should take precedence.

## TABLE 5

## THE NUMBER OF ANIMALS USED IN PROCEDURES REQUIRED BY LAW DURING 1996 IN SPAIN

|  | Party only | Other parties only | Both |
| :--- | :--- | :--- | :--- |
| All species |  |  |  |

Selected species

| Rodents and rabbits |  |  |  |
| :--- | :--- | :--- | :--- |
| Dogs and cats |  |  |  |
| Primates |  |  |  |

## FRANCE

## Comments made by French authorities

In compliance with Articles 13 and 26 of Directive 86/609/EEC of 24 November 1986, France has decided to carry out a statistical survey on the use of vertebrate animals for experimental or other scientific purposes once every three years.

Such surveys have been made in 1990 and in 1993.
Given that no statistical table model was required in the above mentioned Directive, the European Commission has requested from the Member States to comply with the tables of Annex B to the European Convention (ETS 123) on the protection of vertebrate animals used for experimental purposes, adopted by the Committee of Ministers of the Council of Europe on the 31 May 1985.

Since 1993, the Commission and the majority of the Member States' authorities considered that is was appropriate to detail data collected and to create standardised set of statistical tables. To this end, a working group was created which has met several times.

A preliminary agreement on an harmonised system of tables was obtained by the Member States in April 1997.

France committed herself to comply with the new harmonised structure for this second report of the Commission on the use of laboratory animals. The English version of the standardised tables was sent to the Member States in May 1997, but the French version was only available in October 1997. In order to provide the most recent and meaningful data, and with the agreement of the Commission, the collection of the data concerned the year 1997.

It is reminded that the euthanasia of animals by "human" methods in order to obtain tissues, cells and organic liquids is not considered as an experiment within the meaning of the Directive, thus they are not reported in the tables presented.

Finally it will be noted that in certain tables, the totals calculated along the rows and in columns may be slightly inferior to the data appearing in the columns "TOTAL" of the same tables.

The discrepancies observed are explained by the fact that certain reporting institutions have not split the data for animals which they have indicated directly in the column "TOTAL" of these tables.

## Statistical data submitted

The statistical data have been submitted by the "Ministère de l'Education Nationale, de la Recherche et de la Technologie" (Ministry of National Education, Research and Technology).

The data reported concern the year 1997 and are presented in the EU table format (see Introduction).

The following tables are available :
Table 1 Number of animals used in relation with their place of origin (origin versus species)
Table 2 Number of animals used in experiments for selected purposes (purpose versus species)

Table 3 Number of animals used in toxicological and other safety evaluations (products versus species)

Table 4 Number of animals used in experiments for studies on human and animal diseases (main categories versus species)

Table 5 Number of animals used in production and quality control of products and devices for human medicine and dentistry and for veterinary medicine (regulatory requirements versus species)

Table 6 Number of animals used in toxicological and other safety evaluations (regulatory requirements versus species)

Table 7 Number of animals used in toxicological and other safety evaluations (types of tests versus species)

Table 8 Number of animals used in toxicological and other safety evaluations (types of tests versus products)

## FRANCE 1997

TABLE 1: NUMBER OF ANIMALS USED IN RELATION TO THEIR PLACE OF ORIGIN
Origin versus species

|  | $\begin{gathered} 1.1 \\ \text { Species } \end{gathered}$ | $\begin{gathered} 1.2 \\ \text { Total } \end{gathered}$ |  | 1.4 Animals coming from elsewhere in the EC | 1.5 Animuls coming from Member Countries of the Council of Europe which mee panties to the Convention ETS 123 (excluding EC Member Stutes) | 1.6Animats coming from <br> other origins | $\begin{gathered} 1.7 \\ \text { Re-used mimals } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mice ( (Nus muscahus) | 1787200 | 1760000 | 4676 | 1361 | 21163 |  |
|  | Rust (Rathus norvegicur) | 432739 | 412404 | 2305 | 2891 | 15139 |  |
|  | Guines-Pips (Cavala porcelhus) | 102208 | 98380 | 3505 | 53 | 270 |  |
|  | Hamsters (Mesocrioema) | 19342 | 18876 | 300 | 9 | 157 |  |
|  | Other Rodenss (other Radentia) | 6142 |  |  |  |  |  |
| $1 . \mathrm{f}$ | Rebbit (Onecolagus cumicuhus) | 63727 | 65449 | 1032 | 20 | 134 | 2908 |
|  | Cuts (Felis catus) | 1990 | 887 | 831 | 415 | 83 | 227 |
| 1.h. | Dops (Conis familioris) | 4290 | 2564 | 86 | 364 | 1458 | 183 |
| 1.i. | Farcts (Nussela puacrius firo) | 82 | 68 |  |  | 13 |  |
| 1.j. | Other Cemivores (other Carnivora) | 183 |  |  |  | 4hremmund |  |
| 1.t. | Horses, donkeys mid cross breds (Equidae) | 2174 | 20 |  |  |  |  |
| 1.1. | Pies (Sus) | 9927 | , incmendy |  |  |  |  |
| 1.m. | Gouts (Capra) | 776 |  |  |  |  |  |
| 1.n. | Shoep (Ovis) | 3541 |  |  |  |  | Weatereterisaty |
| 1.0. | Cmutc (Bos) | 1636 |  |  |  | Tatry |  |
| 1.p. | Prosimims (Prosimia) | 82 | 82 |  |  |  |  |
| 1.9. | New Word Monkeys (Cebordea) | 88 |  | 88 |  |  |  |
| 1.r. | Old World Monkeys (Cercoppleceoidea) | 2452 | 355 |  | 17 | 223 | 146 |
| 1.s. | Apes (Hominoldea) | 0 |  |  |  |  |  |
| $1 . t$ | Other Mmmmals (0ther Mammalio) | 67 |  |  |  |  |  |
| 1.u. | Quail (Corumbix conmmix) | 1907 | 1656 |  |  | 251 |  |
| 1.v. | Other binds (other Aves) | 65745 |  |  |  |  |  |
| 1.w. | Reprites (Reprilia) | 48 |  | Werymy | 1 + | E, 3x w y |  |
| 1.x. | Amphibiens (Amphibia) | 14403 |  | \% + ¢ | HTurster |  |  |
| 1.y. | Fish (Pisces) | 88573 |  |  | 3 | + |  |
| 1.2 | TOTAL | 2609322 |  |  | 4 |  |  |

Note 1: Column 1.5 concerns only those Member Countries of the Council of Europe which, at the beginning of the reporting period, are Parties to the Convention ETS 123. Thus an mpdated list of those comatries has to be used when filling in this column.

## Note 2: Only the white bores need to be completed.

Note 3: The number of re-used animals in column 1.7 should be excluded from the total in the columan 1.2

TABLE 2: NUMBER OF ANIMALS USED IN EXPERIMENTS FOR SELECTED PURPOSES
Purpose versus species

|  | $\begin{gathered} 2.1 \\ \text { Species } \end{gathered}$ | 2.2 <br> Biological studies of a fundamental nature | 2.3 <br> Research and development of products and devices for human medicine and dentistry and for veterinary medicine (excluding toxicological and other safety evaluations counted in column 2.6) |  | 2.5 <br> Production and quality control of products and devices for veterinary medicine | 2.6 <br> Toxicological and other safety evaluations (including safety evaluation of products and devices for human medicine and dentistry and for veterinary medicine) | 2.7 <br> Diagnosis of disease | 2.8Education and <br> training | $\begin{gathered} 2.9 \\ \text { Other } \end{gathered}$ | $\begin{gathered} 2.10 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.a | Mice | 261440 | 658059 | 642840 | 71771 | 92888 | 34537 | 16754 | 8911 | 1787200 |
|  | Rets | 100410 | 211728 | 35864 | 2167 | 52421 | 1438 | 25013 | 3698 | 432739 |
| 2.c. | Guinen-Pips | 3023 | 33125 | 52041 | 1790 | 11962 | 42 | 218 | 7 | 102208 |
| 2.d. | Hismsters | 7249 | 4640 | 893 | 5537 | 1001 | 10 | 7 | 3 | 19342 |
| 2.e. | Other Rodents | 276 | 4713 | 25 | 117 | 826 | 8 |  | 177 | 6142 |
| 2.f. | Rebbits | 5789 | 9732 | 35251 | 890 | 8240 | 1975 | 1058 | 792 | 63727 |
| 2.8 | Cots | 84 | 912 | 94 | 761 | 130 |  | 7 |  | 1990 |
| 2.h. | Dogs | 118 | 1961 | 41 | 542 | 1517 |  | 111 |  | 4290 |
| 2.i. | Ferrets | 8 | 32 | 25 | 15 |  |  |  |  | 82 |
| 2.j. | Other Camivores | 84 | 51 | 28 | 5 | 5 |  | 6 | 3 | 183 |
| 2.k. | Horses, donkeys and cross breds | 47 | 193 | 408 | 76 | 11 | 35 | 1400 | 4 | 2174 |
| 2.1. | Pips | 1308 | 2677 | 103 | 1667 | 201 | 314 | 697 | 2959 | 9927 |
| 2.m. | Gomis | 468 | 15 | 8 | 19 | 15 | 10 | 25 | 216 | 776 |
| 2.n. | Shecp | 1438 | 495 | 201 | 193 | 50 | 304 | 181 | 679 | 3541 |
| 2.0. | Catile | 178 | 891 | 22 | 434 | 19 | 58 | 23 | 10 | 1636 |
| 2.p. | Prosimians | 82 |  |  |  |  |  |  |  | 82 |
| 2.q. | New World Monkeys |  | 88 |  |  |  |  |  |  | 88 |
| 2.r. | Old World Monkeys | 278 | 120 | 1523 |  | 494 |  | 22 | 13 | 2452 |
| 2.s. | Apes |  |  |  |  |  |  |  |  | 0 |
| 2.t. | Other Mammals | 61 | 3 |  |  |  |  |  |  | 67 |
| 2.u. | Quail | 1839 | 17 |  |  |  |  | 48 |  | 1907 |
| 2.v. | Ohher birds | 18622 | 11572 | 12385 | 18057 | 2446 | 2154 | 505 | 4 | 65745 |
| 2.w. | Reptiles | 39 | 5 |  |  |  |  |  |  | 48 |
| 2.x. | Amphibians | 1409 | 181 | 96 | 17 | 16 | 8 | 12666 | 10 | 14403 |
| 2.y. | Fish | 6007 | 51728 | 22491 | 3975 | 1467 | 315 | 1218 | 1372 | 88573 |
| 2.z. | TOTAL | 410257 | 992938 | 804343 | 108033 | 173709 | 41216 | 59962 | 18864 | 2609322 |

## FRANCE 1997

TABLE 3: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS

## Products versus species

| $\begin{gathered} 3.1 \\ \text { Species } \end{gathered}$ | 32 <br> Producted substances or devices for human medicine and dentistry and for veterinary medicine | 3.3 <br> Products/ substinces used or intended to be used mainly in egriculture | 3.4 <br> Products/ substunces used or inteded to be used mainly in industry | 3.5 <br> Products/ substances used or intended to be used mainly in the houschold | 3.6 <br> Products/ substances used or intended to be used mainly as cosmetics or toiletries | 3.7 <br> Products/ substinces used or intended to be used mainly as additives in food for human consumption | 3.8 <br> Productal substances used or intended to be used mainly es additives in frod for mimal consumption | 3.9 <br> Potential or actual contaminents in the general enviromment which do not eppear in other columns | 3.10 <br> Other toxicological or safety eviluations | $\begin{aligned} & \hline 3.11 \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3.a. Mice | 90849 | 8 | 8 | 14 | 158 | 614 | 8 | 31 | 1197 | 92888 |
| 3.b. Rets | 47355 | 697 | 275 | 5 | 1317 | 325 | 5 | 142 | 2300 | 52421 |
| 3.c. Guince-Piga | 8743 | 611 | 147 |  | 1301 | 53 |  |  | 1107 | 11962 |
| 3.d. Hamsters | 579 |  |  |  | 25 | 397 |  |  |  | 1001 |
| 3.e. Other Rodents | 826 |  |  |  |  |  |  |  |  | 826 |
| 3.f. Ratbits | 5206 | 89 | 136 | 29 | 2191 | 51 | 79 | 29 | 430 | 8240 |
| 3.g. Cats | 116 |  |  |  |  |  |  |  | 5 | 130 |
| 3.h. Dope | 1396 |  | 5 |  |  |  |  |  | 115 | 1517 |
| 3.i. Ferrets |  |  |  |  |  |  |  |  |  | 0 |
| 3.j. Other Cernivores | 4 |  |  |  |  |  |  |  |  | 5 |
| 3.k. Horses, donkeys and cross breds | 10 |  |  |  |  |  |  |  |  | 11 |
| 3.1. Pips | 137 |  |  |  |  |  | 34 |  | 30 | 201 |
| 3.m. Goats | 13 |  |  |  |  |  |  |  |  | 15 |
| 3.n. Sheep | 47 |  |  |  |  |  |  |  |  | 50 |
| 3.0. Cattle | 8 |  |  |  |  |  | 11 |  |  | 19 |
| 3.p. Prosimimas |  |  |  |  |  |  |  |  |  | 0 |
| 3.9. New World Monkeys |  |  |  |  |  |  |  |  |  | 0 |
| 3.r. Old World Monkeys | 494 |  |  |  |  |  |  |  |  | 494 |
| 3.s. Apes |  |  |  |  |  |  |  |  |  | 0 |
| 3.L Other Mammals |  |  |  |  |  |  |  |  |  | 0 |
| 3.u. Quail |  |  |  |  |  |  |  |  |  | 0 |
| 3.v. Other birds | 641 |  |  |  |  |  | 1471 | 333 |  | 2446 |
| 3.w. Repreiles |  |  |  |  |  |  |  |  |  | 0 |
| 3.x. Amphibians | 14 |  |  |  |  |  |  |  |  | 16 |
| 3.y. Fish | 177 | 118 |  |  | 4 |  |  | 181 | 978 | 1467 |
| 3.2 TOTAL | 156616 | 1525 | 576 | 52 | 5001 | 1444 | 1612 | 719 | 6164 | 173709 |

TABLE 4: NUMBER OF ANIMALS USED IN EXPERIMENTS FOR STUDIES ON HUMAN AND ANIMAL DISEASES
Main categories versus species

| $\begin{gathered} 4.1 \\ \text { Species } \end{gathered}$ | 4.2 Human cerdiovascular discases | 4.3 Human nervous and mental disorders | 4.4 <br> Humen cancer (excluding evaluations of curcinogenic hazards or risks) | Other humen diseases | 4.6 <br> Studies specific to animal diseases | $\begin{gathered} \hline 4.7 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4.a_ Mice | 27170 | 344227 | 141911 | 392680 | 48047 | 954036 |
| 4.b. Rats | 57234 | 136021 | 14181 | 98753 | 7386 | 313.576 |
| 4.c. Guinem-Pips | 6660 | 14368 | 1040 | 11296 | 2826 | 36190 |
| 4.d. Hemsters | 2587 | 678 | 198 | 5568 | 2868 | 11899 |
| 4.e. Other Rodents | 18 | 4416 | 30 | 376 | 156 | 4997 |
| 4.f. Rebbits | 4303 | 1670 | 489 | 6828 | 4206 | 17496 |
| 4.g. Cms | 10 | 59 | 17 | 80 | 829 | 996 |
| 4.h. Do.s | 749 | 80 | 59 | 346 | 845 | 2079 |
| 4.i. Ferrets | 5 | 7 | 19 | 6 | 3 | 40 |
| 4.j. Other Camivores | 8 | 47 | 14 | 48 | 18 | 135 |
| 4.k. Honses, donkeys nad croos breds | 13 | 71 | 21 | 76 | 94 | 275 |
| 4.1. Pigs | 966 | 146 | 65 | 429 | 2693 | 4299 |
| 4.m. Coets | 12 | 70 | 21 | 76 | 314 | 493 |
| 4.n. Sheep | 125 | 269 | 79 | 429 | 1335 | 2237 |
| 4.0. Citile | 18 | 102 | 30 | 111 | 865 | 1127 |
| 4.p. Prociminas | 5 | 28 | 8 | 30 | 11 | 82 |
| 4.9. New Would Monteys |  | 88 |  |  |  | 88 |
| 4.r. Old Would Monderes | 5 | 117 | 13 | 249 | 14 | 398 |
| 4.s. Apes |  |  |  |  |  | 0 |
| 4.t Other Mamments | 4 | 22 | 6 | 24 | 8 | 64 |
| 4.u. Oumi | 110 | 623 | 183 | 702 | 238 | 1856 |
| 4.v. Oither binds | 267 | 1524 | 445 | 1826 | 28285 | 32348 |
| 4.w. Reprites | 3 | 15 | 4 | 16 | 6 | 44 |
| 4.x. Anporibinas | 73 | 606 | 152 | 609 | 158 | 1593 |
| 4.y, Fizah | 338 | 1913 | 563 | 2031 | 53155 | 58050 |
| 4.2. TOTAL | 100683 | 507167 | 159548 | 522645 | 154360 | 1444403 |

TABLE 5: NUMBER OF ANIMALS USED IN PRODUCTION AND QUALITY CONTROL OF PRODUCTS AND DEVICES FOR HUMAN MEDICINE AND DENTISTRY AND FOR VETERINARY MEDICINE

Regulatory requirements versus species

| $\begin{gathered} 5.1 \\ \text { Species } \end{gathered}$ | 5.2 <br> Namional legislation <br> specific to a single EC <br> Member Stume <br> 1) | 5.3 EC legislation including Europem Pharmacopocia (requirements) | 5.4 <br> Member Country of Council <br> of Europe (but not EC) <br> legislation <br> 2) | $\begin{gathered} 5.5 \\ \text { Other legislation } \end{gathered}$ | 5.6 <br> Any combination of 5.2/5.3/5.4/5.5 | 5.7 <br> No regulatory requirements | $\begin{gathered} \hline 5.8 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5.a Mice | 37725 | 453511 | 814 | 10264 | 175053 | 37243 | 714611 |
| 5.b. Rents | 8411 | 15276 | 28 | 3325 | 9101 | 1889 | 38031 |
| S.c. Guinem-Pigs | 52 | 43316 |  | 604 | 9636 | 223 | 53831 |
| 5.d. Hemsters | 632 | 5479 |  | 86 | 12 | 220 | 6430 |
| 5.e. Other Rodents | 11 | 77 |  | 4 | 41 | 7 | 142 |
| 5.f. Rebbits | 3280 | 21047 | 32 | 9171 | 2053 | 558 | 36141 |
| 5.g. Cats |  | 605 |  | 7 | 109 | 132 | 855 |
| 5.h. Dops |  | 388 |  |  | 28 | 164 | 583 |
| 5.i. Ferrets |  | 38 |  |  |  |  | 40 |
| 5.j. Other Camivores | 3 | 18 |  |  | 9 |  | 33 |
| 5.k. Horses, donkeys mid cross breds | 124 | 233 | 3. | 10 | 96 | 17 | 484 |
| S.1. Pijes | 23 | 1208 |  | 6 | 56 | 476 | 1770 |
| 5.m. Goats |  | 14 |  |  | 8 |  | 27 |
| 5.n. Sheep | 21 | 288 |  | 6 | 67 | 10 | 394 |
| 5.0. Cattle |  | 444 |  |  | 8 |  | 456 |
| 5.p. Prosimimas |  |  |  |  |  |  | 0 |
| 5.9. New Wordd Monkeys |  |  |  |  |  |  | 0 |
| 5.r. Old World Monkeys |  | 1523 |  |  |  |  | 1523 |
| 5.s. Apes |  |  |  |  |  | - | 0 |
| 5.t. Other Mammals |  |  |  |  |  |  | 0 |
| S.u. Quail |  |  |  |  |  |  | 0 |
| 5.v. Other birds | 3 | 26006 |  |  | 11 | 4420 | 30442 |
| 5.w. Reptiles |  |  |  |  |  |  | 0 |
| 5.x. Amphibians | 9 | 61 |  | 3 | 33 | 6 | 113 |
| 5.y. Fish | 115 | 13388 | 14 | 43 | 12834 | 72 | 26466 |
| 5.2. TOTAL | 50418 | 582924 | 902 | 23534 | 209158 | 45440 | 912376 |

Examples: $\quad 5.2$ - France is testing due to a UK (or FR) specific requirement 5.3 - UK is testing accordiag to EC legislation
5.4 - Spain is testing due to a Hungarian requirement
5.5 - Sweden is testing due to a US specific requirement
5.6 - Germany is testing due to a Czech requirement (also an EC requirement)

Note: columns 5.2 - 5.5 refer to the legislation imposing that the test be carried out and mot to the body which has issued the actual test method, guideline or protocol. Example: a test required by Freach legislation and carried out in Belgium according to an ISO protocol must be coded as a national (FR) legislative requirement and be emtered into column 5.2 in the tables submitted by Belgium.
2) Member Countries of Council of Europe (non-EC): Albania, Andorra, Buigaria, Croatia, Cyprus, Czech Rep., Estomia, Hungary, Iceland, Latvia, Liechtemstein, Lithuania, Malta, Moldova, Norway, Polamd, Romania, Russia, San Marino, Slovakia, Slovenia, Switzerland, 'the former Yugoslav Rep. of Macedonia', Turkey, Ukraine

TABLE 6: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS
Regulatory requirements versus species

|  | $\begin{gathered} 6.1 \\ \text { Species } \end{gathered}$ | 6.2 National legislation specific to a single EC Member State 1) | 6.3 EC legisimion including Europem Phamacopocia (reruinements) | 6.4 <br> Member Country of Council of Europe (but not EC) legislation <br> 2) | 6.5 Other legislation | 6.6 Any combination of 6.2/6.3/6.4/6.5 | 6.7 <br> No regulatory requirements | $\begin{gathered} \hline 6.8 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6.a. | Mice | 1383 | 38654 | 58 |  | 35436 | 17356 | 92888 |
| 6.b. | Rats | 762 | 13906 | 834 |  | 31907 | 5012 | 52421 |
| 6.c. | Guinem-Pigs |  | 1848 |  |  | 7894 | 2219 | 11962 |
| 6.d. | Hamsters | 422 | 302 |  |  | 277 |  | 1001 |
| 6.e. | Other Rodents | 8 | 264 | 8 |  | 413 | 133 | 826 |
| 6.f. | Rabbits | 102 | 3665 | 1154 |  | 2638 | 21 | 8240 |
| 6.8. | Cats |  | 42 |  |  | 65 | 23 | 130 |
| 6.h. | Dogs |  | 141 |  |  | 1226 |  | 1517 |
| 6.1. | Ferrets |  |  |  |  |  |  | 0 |
| 6,j. | Other Cmmivores |  |  |  |  |  | 5 | 5 |
| 6.k. | Horses, donkeys and cross breds |  |  |  |  | 4 | 7 | 11 |
| 6.1. | Pips |  | 56 |  |  | 33 | 112 | 201 |
| $6 . \mathrm{m}$. | Goats |  | 5 |  |  | 7 |  | 15 |
| 6.n. | Sheep |  | 13 |  |  | 5 | 31 | 50 |
| 6.0. | Cattic |  | 6 |  |  | 10 | 3 | 19 |
| 6.p. | Prosimians |  |  |  |  |  |  | 0 |
| 6.9. | New World Monkeys |  |  |  |  |  |  | 0 |
| 6.r. | Old World Monkeys |  |  |  |  | 494 |  | 494 |
| 6.s. | Apes |  |  |  |  |  |  | 0 |
| $6 . \mathrm{L}$. | Other Mammals |  |  |  |  |  |  | 0 |
| 6.u. | Quail |  |  |  |  |  |  | 0 |
| 6.v. | Other birds |  | 272 |  |  | 7 | 2166 | 2446 |
| 6.w. | Repciles |  |  |  |  |  |  | 0 |
| 6.x. | Amphibians |  | 5 |  |  | 8 | 3 | 16 |
| 6.y. | Fish | 13 | 403 | 13 |  | 629 | 409 | 1467 |
| 6.2. | TOTAL | 2693 | 59586 | 2072 |  | 81058 | 28300 | 173709 |

Examples: 6.2 - France is testing due to a UK (or FR) specific requirement 6.3 - UK is teating according to EC legislation
6.4 - Spain is testing due to a Hungarian requirement 6.5 - Swedem is testing due to a US specific requirement 6.6-Germany is testing due to a Czech requirement (also an EC requirement)

Note: columns 6.2 - 6.5 refer to the legislation imposing that the test be carried out and not to the body which has issued the actual test method, guideline or protocol. Example: a test required by Fremch legislation and carried out in Belgium according to an ISO protocol must be coded as a national (FR) legislative requirement and be entered into column 6.2 in the tables submitted by Belgium.

Footnotes:

1) EC Meumber States: Austria, Belgium, Demmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, United Kingdom
2) Member Coumtries of Conncil of Europe (non-EC): Albania, Andorra, Bulgaria, Croatia, Cyprus, Czech Rep., Estonia, Hungary, Iceland, Latvia, Liechtenstein, Lithmamia, Maltt, Moldova, Norway, Poland, Romania, Russia, San Marino, Slovakia, Slovenia, Switzerland, 'the former Yugoslav Rep. of Macedonia’, Turkey, Ukraine

## FRANCE 1997

## TABLE 7: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS

Types of tests versus species

| $\begin{gathered} 7.1 \\ \text { Species } \end{gathered}$ |  | 7.2Acute mad sub-ncutc toxicity testing methods(including limit test) |  |  | 7.3Skinirritation | 7.4Skinsenstisution | 7.5Eyeirritation | 7.6Sub-chronic andchronictoxicity | 7.7Carcino-Eenicity | $7.8$ <br> Developmenten toxicity |  | 7.10 <br> Reproductive toxicity |  | $\begin{aligned} & 7.12 \\ & \text { Other } \end{aligned}$ | $\begin{aligned} & 7.13 \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { 7.2.1. } \\ & \text { LD50, } \\ & \text { LC50 } \end{aligned}$ | $\overline{7.2 .2}$ <br> Other lethal methods | 7.2.3 <br> Non lethal clinical signs methods |  |  |  |  |  |  |  |  |  |  |  |
| 7.1 | Mice | 6710 | 7573 | 21611 | 126 | 11269 | 126 | 7298 | 3487 | 126 | 2227 | 561 | 126 | 31648 | 92888 |
| 7.b. | Rms | 976 | 4580 | 13320 | 12 | 110 | 12 | 10714 | 477 | 803 | 3197 | 4528 | 12 | 13680 | 52421 |
| 7.c. | Guinct-Pias | 160 | 200 | 2193 | 55 | 4269 | 40 | 1176 | 120 | 40 | 80 | 160 | 40 | 3426 | 11962 |
| 7.d. | Hamsters | 33 |  | 180 | 25 |  |  | 91 |  |  |  | 33 |  | 639 | 1001 |
| 7.e. | Other Rodents | 39 | 41 | 190 | 8 | 74 | 8 | 132 | 25 | 8 | 17 | 228 | 8 | 48 | 826 |
| 7.f. | Rabbits | 5 | 49 | 382 | 1036 | 691 | 1272 | 225 | 30 | 334 | 20 | 5 | 10 | 3742 | 8240 |
| 7.g. | Cms | 7 | 7 | 30 |  | 12 |  | 21 | 4 |  | 3 | 7 |  | 39 | 130 |
| 7.h. | Dogs |  | 9 | 575 |  | 16 |  | 705 | 5 |  | 4 |  |  | 183 | 1517 |
| 7.i. | Ferrets |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7.j. | Other Carnivores |  |  |  |  |  |  |  |  |  |  |  |  | 5 | 5 |
| 7.k. | Horses, donkeys and cross breds |  |  |  |  |  |  |  |  |  |  |  |  | 11 | 11 |
| 7.1.. | Pips |  |  |  |  |  |  | 50 |  |  |  |  |  | 147 | 201 |
| 7.m. | Gorts |  |  | 3 |  |  |  |  |  |  |  |  |  | 12 | 15 |
| 7.n. | Sheep |  |  | 3 |  |  |  |  |  |  |  |  |  | 42 | 50 |
| 7.0. | Catic |  |  | 4 |  |  |  | 3 |  |  |  |  |  | 12 | 19 |
| 7.p. | Prosimians |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7.9. | New World Monkeys |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7.r. | Old World Monkeys |  | 47 | 28 |  |  |  | 419 |  |  |  |  |  |  | 494 |
| 7.s. | Apes |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7.t. | Other Mammals |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7.u. | Quail |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7.v. | Other birds |  |  | 1208 |  |  |  | 270 |  |  |  |  |  | 964 | 2446 |
| 7.w. | Repriles |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 7x. | Amphibians |  |  | 4 |  |  |  | 3 |  |  |  |  |  | 5 | 16 |
| 7.y. | Fish | 12 | 14 | 66 | 3 | 26 | 3 | 104 | 9 | 3 | 6 | 162 | 973 | 86 | 1467 |
| 7.2. | TOTAL | 7947 | 12526 | 39801 | 1269 | 16476 | 1465 | 21219 | 4159 | 1318 | 5554 | 5870 | 1173 | 54932 | 173709 |

TABLE 8: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS
Types of tests versus products

| $\begin{gathered} 8.1 \\ \text { Products } \end{gathered}$ | 8.2Acuse mad sub-maxte toxicity textingmethods (including limit text) |  |  | $\begin{gathered} 8.3 \\ \text { Skin } \\ \text { irritution } \end{gathered}$ | 8.4 Skin sensitistion | 8.5 Eye irritation | 8.6 Sub- chronic and chronic toxicity |  | 8.8 Devclop- mental toxicity | $\begin{gathered} 8.9 \\ \text { Muta- } \\ \text { gericity } \end{gathered}$ | $\begin{aligned} & 8.10 \\ & \text { Repro- } \\ & \text { ductive } \\ & \text { toxicity } \end{aligned}$ | 8.11 Toxicity to aquatic vertetrat- ies not included in other columens | $\begin{aligned} & 8.12 \\ & \text { Other } \end{aligned}$ | $\begin{aligned} & 8.13 \\ & \text { Totel } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8.a. Products/substances or devices for human medicine and dentistry and for veterinary medicine | 6753 | ' 11267 | 37208 | 449 | 13088 | 543 | 20587 | 4105 | 1125 | 5518 | 5552 | 185 | 52434 | 158814 |
| 8.b. Product/substances used or intended to be used mainly in agriculture | 8 | 329 | 229 | 25 | 628 | 37 | 115 | 6 |  | 4 | 76 |  | 254 | 1711 |
| 8.c. $\begin{array}{l}\text { Products/substances used or intended } \\ \text { to be used mainly in industry }\end{array}$ | 194 | 95 | 49 | 53 | 165 | 58 | 58 |  |  |  | 19 |  | 58 | 749 |
| 8.d. Products/substances used or intended to be used mainly in the household |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |
| 8.e. Products/substances used or intended to be used mainly as cosmetics or toiletries | 718 | 30 | 934 | 706 | 1898 | 789 | 173 | 18 | 6 | 12 | 56 | 6 | 290 | 5636 |
| 8.f. Products/substances used or intended to be used mainly as additives in food for human consumption | 8 | 616 | 49 | 11 | 71 | 14 | 58 |  | 176 |  |  |  | 601 | 1604 |
| 8.g. Products/substances used or intended to be used mainly as additives in food for mimal consumption |  |  | 561 |  | 18 |  | 110 |  |  |  |  |  | 1067 | 1756 |
| 8.h. Potential or actual contaminents in the general environment which do not eppear in other columns |  | 10 | 543 |  |  |  | 58 |  |  | 4 | 112 | 972 | 84 | 1783 |
| 8.i. $\begin{array}{l}\text { Other toxicological or safety } \\ \text { evaluations }\end{array}$ | 250 | 169 | 229 | 22 | 590 | 21 | 60 | 6 |  |  | 19 |  | 141 | 1507 |
| 8.j. TOTAL | 7947 | 12526 | 39802 | 1269 | 16476 | 1465 | 21219 | 4159 | 1318 | 5554 | 5872 | 1173 | 54929 | 173709 |

## IRELAND

## Comments made by the authorities of Ireland

Note: If the licence is held alone without Certificate, the animal must be kept in anaesthesia throughout the whole of the experiment, and if the pain is likely to continue after the effect of the anaesthetic has ceased, or if any serious injury has been inflicted on the animal, it must be killed before the anaesthesia has passed off.

Certificate $\mathbf{A}$ dispenses altogether from the obligation to use anaesthetic. It will be necessary in cases of simple inoculation calculated to give pain but not involving any surgical operation.

Certificate $\mathbf{B}$ dispenses altogether from the obligation to kill the animal before the anaesthetic has passed off, it is necessary therefore whenever the initial operation is to be done under anaesthetics, but the animal is to be allowed to survive.

Certificate $\mathbf{C}$ is necessary for experiments illustrating lectures.
Certificate $\mathbf{E}$ is never held alone, but is necessary whenever an experiment is to be performed on a Dog or Cat under Certificate A.

Certificate EE is never held alone, but is necessary whenever an experiment is to be performed on a Dog or Cat under Certificate B.

Certificate $\mathbf{F}$ is necessary whenever an experiment is to be performed on a Horse, Ass or Mule.

## Statistical data submitted

The statistical data of 1996 of Ireland have been provided by the Department of Health.
The data submitted are complying with national tables :
Table I contains the total number of animals used in 1996 in scientific procedures versus species.

Tables II contain the number of animals used for selected purposes with additional break down versus species :

- part i concerns rodents and lagopeds;
- part ii concerns domestic animals;
- part iii concerns other domestic animals and fish.

Table III contains the number of animals used anaesthetized according to certificates or licences versus species.

Table IV concerns the number of genetically modified animals.
Table V shows the trends in the number of animals used in scientific procedures in the years 1987 to 1996.

## TABLEI

The number and species of live animals used in scientific procedures in year ending 31 December 1996.

IRELAND 1996

| Species | Number | \% of total |
| :--- | ---: | ---: |
| Mice | 26,735 | 34.7 |
| Rats | 24,474 | 31.7 |
| Guinea Pigs | 1,531 | 1.9 |
| Gerbils | 118 | 0.1 |
| Rabbits | 2,067 | 2.7 |
| Dogs | 332 | 0.4 |
| Cats | 181 | 0.2 |
| Pigs | 124 | 0.2 |
| Horses, Donkeys \& Crossbreeds | 199 | 0.3 |
| Goats | 25 | 0 |
| Sheep | 1,010 | 1.3 |
| Cattle | 1,196 | 1.5 |
| Birds (Poultry) | 94 | 0.1 |
| Fish | 19,021 | 24.7 |
| TOTAL | 77,107 |  |

TABLE II - part (i)

| ireland 1996 |  | Mice | Rats | Guinea pigs | Gerbils | Rabbits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Research, development and quality control of apparatus and products | Used in human medicine and dentistry | 17,499 | 15,873 | 1,350 |  | 1,890 |
|  | Used in veterinary medicine | 362 | 82 |  | 66 | 2 |
| Diagnosis of disease |  | 46 | 16 | 100 | 42 | 4 |
| Study of diseases | Cardio-vascular |  | 757 | 6 |  | 15 |
|  | Cancer | 2,630 |  | 15 |  | 1 |
|  | Mental | 456 | 3,697 |  |  | 2 |
|  | Other | 1,810 | 824 | 10 | 10 | 43 |
| Biological studies of a fundamental nature |  | 1,363 | 1,823 |  |  | 50 |
| Immunological studies |  | 573 | 155 |  |  | 57 |
| Toxicological and other safety evaluations | Food | 1,740 | 262 |  |  |  |
|  | Other |  |  |  |  |  |
| Teaching, learning, education |  | 179 | 388 | 50 |  | 3 |
| Other |  | 77 | 597 |  |  |  |
|  | TOTAL | 26,735 | 24,474 | 1,531 | 118 | 2,067 |

TABLE U - part (ii)

|  |  | Dogs | Cats | Pigs | Horses | Sheep |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Research. development and quality control of apparatus and products | Used in human medicine and dentistry | 29 |  | 64 |  |  |
|  | Used in veterinary medicine | 273 | 181 | 20 | 127 | 199 |
| Diagnosis of disease |  |  |  |  |  |  |
| Study of diseases | Cardio-vascular | 20 |  |  |  |  |
|  | Cancer |  |  |  |  |  |
|  | Mental |  |  |  |  |  |
|  | Other |  |  | 26 |  | 10 |
| Biological studies of a fundamental nature |  | 7 |  |  | 14 | 415 |
| Immunological studies |  |  |  |  | 7 | 16 |
| Toxicological and other safety evalations | Food |  |  |  |  |  |
|  | Other |  |  |  | 51 |  |
| Teaching, learning, education |  | 3 |  | 14 |  | 340 |
| Other |  |  |  |  |  | 30 |
|  | TOTAL | 332 | 181 | 124 | 199 | 1,010 |

## TABLE II - part (iii)

| IRELAND 1996 |  | Cattle | Goats | Poultry | Fish | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Research. development and quality control of apparatus and products | Used in human medicine and dentistry |  |  |  |  | 36,705 |
|  | Used in veterinary medicine | 620 |  | 40 |  | 1,972 |
| Diagnosis of disease |  |  | 25 | 5 | 150 | 388 |
| Study of diseases | Cardio-vascular |  |  |  |  | 798 |
|  | Cancer |  |  |  |  | 2,646 |
|  | Mental |  |  |  |  | 4,155 |
|  | Other | 7 |  |  |  | 2,740 |
| Biological studies of a fundamental nature |  | 500 |  | 49 | 31 | 4,252 |
| Immunological studies |  | 56 |  |  |  | 864 |
| Toxicological and other safety evalations | Food |  |  |  |  | 2,002 |
|  | Other |  |  |  |  | 51 |
| Teaching, leaming, education |  | 2 |  |  |  | 979 |
| Other |  | 11 |  |  | * 18,840 | 19,555 |
|  | TOTAL | 1,196 | 25 | 94 | 19,021 | 77,107 |

* to assess the level of infestation of sea lice.

TABLE III
IRELAND 1996

| SPECIES | 1 | 2 | 3 | 4 | $\begin{aligned} & \text { TOTAL } \\ & (1+2+3) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | With anaesthesia (licence only) | Without anaesthesia (Certificate A) | With anaesthesia but with permitted recovery (Certificate B) | Demonstrations (Certificate C) |  |
| Mice | 1,126 | 24,081 | 1,528 | 153 | 26,735 |
| Rats | 18,778 | 3,499 | 2,197 | 261 | 24,474 |
| Guinea pigs | 31 | 1,500 |  | 8 | 1,531 |
| Gerbils | 118 |  |  |  | 118 |
| Rabbits | 167 | 1,857 | 43 | 5 | 2,067 |
| Dogs | 23 | 280 | 29 | 3 | 332 |
| Cats |  | 181 |  |  | 181 |
| Pigs | 22 | 78 | 24 | 2 | 124 |
| Horses, Donkeys \& Crossbreeds |  | 199 |  |  | 199 |
| Sheep | 10 | - 523 | 477 | 2 | 1,010 |
| Cattle | 48 | - 840 | 308 | 2 | 1,196 |
| Goats |  | 25 |  |  | 25 |
| Poultry |  | 63 | 31 |  | 94 |
| Fish |  | 6 | 19,015 |  | 19,021 |
| TOTAL | 20,323 | 33,132 | 23,652 | 436 | 77,107 |

## TABLE IV

Genetically modified animals

IRELAND 1996

| Species | With genetic <br> defect | Transgenic | Total |
| :--- | :---: | :---: | :---: |
| Mice | 135 | 522 | 657 |
| Rats | 38 | 0 | 38 |

## TABLE V

The number and species of live animals used in scientific procedures in the years 1987-1996

| IRELAND | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MICE | 5657 | 21832 | 19348 | 23470 | 17550 | 15739 | 20427 | 18535 | 21963 | 26735 |
| RATS | 7120 | 4767 | 6273 | 5391 | 3053 | 2559 | 12712 | 13456 | 16637 | 24474 |
| GUINEA PIGS | 335 | 521 | 557 | 617 | 423 | 464 | 1812 | 1400 | 2665 | 1531 |
| OTHER RODENTS | 999 | 630 | 638 | 192 | 249 | 202 | 630 | 385 | 164 | 118 |
| RABBITS | 2521 | 1444 | 1469 | 1801 | 1112 | 1586 | 2050 | 1945 | 2484 | 2067 |
| DOGS | 174 | 146 | 257 | 204 | 45 | 90 | 241 | 245 | 172 | 332 |
| CATS | 49 | 33 | 33 | 33 | 17 | 8 | 0 | 60 | 60 | 181 |
| HORSES, DONKEYS AND CROSSBREEDS | 8 | 22 | 233 | 43 | 34 | 21 | 220 | 94 | 29 | 199 |
| PIGS | 693 | 25 | 175 | 109 | 153 | 197 | 288 | 180 | 133 | 124 |
| SHEEP | 8515 | 818 | 1156 | 1001 | 990 | 836 | 1085 | 786 | 1164 | 1010 |
| CATTLE | 5192 | 1993 | 1622 | 1629 | 1488 | 538 | 2250 | 2593 | 1217 | 1196 |
| OTHER MAMMALS | 7 | 126 | 116 | 10 | 37 | 38 | 14 | 0 | 12 | 0 |
| BIRDS | 1136 | 1 | 168 | 13 | 44 | 41 | 442 | 48 | 86 | 94 |
| FISH | 250 | 0 | 110 | 900 | 0 | 150 | 62 | 9076 | 9820 | 19021 |
| AMPHIBIANS | 10 | 538 | 0 | 0 | 4 | 0 | 11 | 0 | 0 | 0 |
| TOTAL | 32666 | 32896 | 32155 | 35413 | 25199 | 22469 | 42244 | 48803 | 56606 | 77157 |

## ITALY

## Statistical data submitted

The statistical data of 1996 of Italy have been submitted by the "Ministero della Sanita" (Ministry of Health).

The tables follow essentially the format of the preceding tables of the Commission (see Introduction).

Data of tables 2 and 3 are not available in Italy.
Table 1 number of animals used in experiments for selected purposes (purposes versus species)
Table 4 number of animals used in relation with their place of origin (origin versus species)
Not numbered table number of animals used in experiments versus legislative requirements in relation to all kinds of study.

Table 1 concerns number of animals used in experiments for selected purposes versus species (this table follows the model of Table 1 of the old Community statistical tables of 1996, but columns 1.3, $1.4,1.5$ and 1.6 have been merged).
Table 4
concerns number of animals used in relation with their place of origin versus species (this table is a mixture of Table 9 of the old statistical tables of the Community of 1996 and of Table 1 of the Council of Europe).
Not numbered table concerns total number of animals used in experiments versus legislative requirements in relation to all kinds of study.

TABLE 1. NUMBER OF ANIMALS USED IN EXPERIMENTS FOR SELECTED PURPOSES ITALY. YEAR 1996

## Purpose versus species

| EPECIES | Brological studies of a funcernertel nature | Rewerch, <br> devilopmert and qualitiy control of products and apparatus for humen medicine end dentisty and voterinary medicine exeluding safity oveluation | Diagnosis of discase | Taxcological and other safoley evaluations inctucting setaty evaluation of products and applences for humen medicine and dentestry and vaterinary medieine | Education and training | Other | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mros | 83616 | 180058 | 7081 | 34890 | 252 | 67030 | 379327 |
| Rets | 41222 | 327855 | 487 | 24020 | 1020 | 201003 | 598407 |
| Cunne-Pigs | 2751 | 9584 | 710 | 3762 | - | 12118 | 28928 |
| Mematiors | 797 | 530 | 1 | 514 | - | - | 1842 |
| Other Rodents | 28 | 2311 | 10 | - | - | 13 | 2380 |
| Rabolla | 3650 | 8678 | 113 | 8182 | - | 20841 | 41070 |
| Cats | 240 | 4 | - | - | - | 26 | 270 |
| Dogs | 20 | 301 | - | 650 | - | 4 | 084 |
| Farme | - | - | - | - | - | - | - |
| Other Comivorea | - | - | - | - | - | - | - |
| Horsee, Donkeyn and Croes Braeds | - | 160 | - | - | - | 23 | 173 |
| Pige | 126 | 198 | 3 | 20 | 60 | 680 | 1094 |
| Come | 46 |  | - | - | - | 24 | 70 |
| Sneep | 111 | 4 | - | - | - | 227 | 342 |
| Come | 49 | 8 | - | - | - | 132 | 189 |
| Erimata <br> a. Procindanse (Provinile) <br> b. Now Word Morkeys (Cebolden) <br> c. Ord Words Morikeys (Cercopithecoldea) <br> d. Apes (Hominoldea) | $\begin{aligned} & - \\ & 165 \\ & - \end{aligned}$ | $\begin{gathered} - \\ 1 \\ 165 \\ - \end{gathered}$ |  | $\begin{array}{r} -12 \\ 374 \\ - \end{array}$ | $\begin{aligned} & - \\ & - \\ & - \end{aligned}$ | $\begin{gathered} - \\ 23 \\ 34 \\ - \end{gathered}$ | 770 |
| Ouner Manmmats | 24 | - | - | - | - | - | 24 |
| Quall | 5 | - | - | - | - | - | 5 |
| Other Binde | 2871 | 1890 | 36 | 88 | - | 4828 | 9213 |
| Repdias | 044 | - | - | - | - | - | 644 |
| Anphbians | 2918 | 19 | - | - | 15 | 94 | 3048 |
| Flan | 4232 | - | - | 187 | 150 | 016 | 6486 |
| TOTAL | 140449 | 531854 | 8441 | 72708 | 1497 | 308327 | 1071248 |

[^4]TABLE 4. NUMBER OF ANIMALS USED IN RELATION WITH THEIR PLACE OF ORIGIN ITALY, YEAR 1996

## Ongin versus species

| 3PECIE 8 | Animatis coming from regiatered breeding or appitho eabldmenta whitin the EEC | Animals coming from Other sources within the EEC | Animals coming from nonEEC countries | total |
| :---: | :---: | :---: | :---: | :---: |
| Mice | 378708 | 88 | 531 | 379327 |
| Rets | 60404 | 778 | 228 | 595407 |
| Cunoe-Piges | 28928 | - | - | 28925 |
| Hemenert | 1470 | - | 372 | 1842 |
| Otrer Rodents | 2344 | - | 16 | 2380 |
| Rubbits | 38800 | 2281 | - | 41070 |
| Cats | 258 | 14 | - | 270 |
| Dope | 284 | - | - | 984 |
| Ferrets | - | - | - | - |
| Other Camivores | - | - | - | - |
| Horses, Donkeys and Croes Breeds | 173 | - | - | 173 |
| Piges | 911 | 183 | - | 1094 |
| Come | 48 | 22 | - | 70 |
| Sheep | 275 | 67 | - | 342 |
| Catle | 153 | 36 | - | 189 |
| Ering an <br> a. Proekniane (Procimia) <br> b. New Wortd Monkeys (Ceboidea) <br> c. Odd World Monkeys (Cercopitiecoidea) <br> d. Apes (Hominolden) | $\begin{aligned} & - \\ & - \\ & 216 \\ & - \end{aligned}$ | $\begin{aligned} & - \\ & - \\ & - \\ & - \end{aligned}$ | $\begin{array}{r} - \\ 38 \\ 523 \\ - \end{array}$ | 778 |
| Other mammala | - | 24 | - | 24 |
| Quall | 5 | - | $\cdots \quad$ - | 5 |
| Other Blirds | 7478 | 1737 | - | 9213 |
| Repation | 173 | 441 | 30 | 644 |
| Amphriciens | 1525 | 1402 | 118 | 3046 |
| Flah | 5044 | 441 | - | 5485 |
| TOTAL | - 1081888 | 7481 | 1857 | 1071246 |

## NUMBER OF ANIMALS USED IN EXPERIMENTS VERSUS LEGISLATIVE REQUIREMENTS IN RELATION TO ALL KINDS OF STUDIES

## ITALY 1996

| ALL SPECIES | National <br> legislation <br> only | EEC <br> legislation | Other <br> international <br> legislation | Any <br> combination of <br> the above | No legislative <br> requirements | Not Specified <br> Data | TOTAL |
| :--- | ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| TOTAL 1995 | 74395 | 121419 | - | .183969 | 264277 | 312234 | 956294 |
| TOTAL 1996 | 72303 | 73706 | - | 151458 | 289197 | 484582 | 1071246 |

## LUXEMBOURG

## Statistical data submitted

The data have been provided by the permanent representation of Luxembourg to the European Union.

The data provided for 1996 are only describing the number of animals used by species. (table entitled « Statistics concerning the use of laboratory animals in Luxembourg »).

## STATISTICS CONCERNING THE USE OF <br> LABORATORY ANIMALS IN LUXEMBOURG

|  | Mice | Rats | Guinea-Pigs | Rabbits |
| :--- | :---: | :---: | :---: | :---: |
| 1995 | 1.000 | 0 | 0 | 2 |
| 1996 | 1.000 | 0 | 0 | 3 |
| 1997 | 2.000 | 0 | 0 | 3 |

## NETHERLANDS

## Comments made by Dutch authorities

The data reported for 1996 concern 98 establishments involved in experiments on animals.

There is a decrease in the number of animals $(5,552)$ used for experiments when reporting according to the Dutch registration system also including animals killed without any previous intervention, for example for obtaining primary cell culture).

| 1995 | 1996 |
| :---: | :---: |
| 746,726 | 741,174 |

There is an increase in the number of animals $(19,586)$ used for experimental purposes when reporting according to the Council of Europe Convention tables.

| 1995 | 1996 |
| :---: | :---: |
| 632,714 | 652,300 |

In 1996 there was an increase in the use of rats, primates, cats, dogs, other carnivores, pigs, goats/sheep, cattle, birds and amphibians.

## Statistical data submitted

The statistical data have been submitted by the Veterinary Public Health Inspectorate in the Netherlands.

The statistical data of 1996 are contained in the annual report prepared by the Netherlands.

The statistical tables presented by the Netherlands follow essentially the Convention tables for the Council of Europe (ETS 123) (see Introduction) :

Table 1: the number and species of animals used in procedures
Table 2: number of animals used in procedures for selected purposes
Table 3: number of animals used in procedures concerned with diseases and disorders

Table 4: number of animals used in procedures required by law.

## TABLE 1

## The number and species of animals used in procedures in the Netherlands in 1996

| Mice (Mus musculus) | 244,799 |
| :--- | ---: |
| Rats (Rattus norvegicus) | 226,659 |
| Guinea pigs (Cavia porcellus) | 11,956 |
| Other rodents (other Rodentia) | 7,905 |
| Rabbits (Oryctolagus cuniculus) | 9,401 |
| Primates * | 1,082 |
| Dogs (Canis familiaris) | 1,243 |
| Cats (Felis catus) | 444 |
| Other carnivores (other Carnivora) | 76 |
| Horses, donkeys \& cross-bred (Equidae) | 348 |
| Pigs (Sus) | 10,164 |
| Goats and sheep (Capra \& Ovis) | 4,327 |
| Cattle (Bos) | 3,026 |
| Other mammals (other Mammalia) | 12 |
| Birds (Aves) | 86,071 |
| Reptiles (Reptilia) | 6 |
| Amphibians (Amphibia) | 4,753 |
| Fish (Pisces) | 40,028 |
| Total | 652,300 |

[^5]
## TABLE 2

## Number of animals used in procedures for selected purposes in the Netherlands in 1996

| Purposes | All species | Selected species |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Rodents 8 Rabbits | Dogs 8 Cats | Primates |
| 1. Biokgical (including medical) studies of a fundamental nature | 284,082 | 214,707 | 499 | 128 |
| 2. Discovery development and quality control (including safety evaluation of products or appliances for human and veterinary medicine | 332,689 | 258,293 | 896 | 931 |
| 3. Diagnosis of disease | 5,916 | 5,398 | 12 | 6 |
| 4. Protection of man, animals and their environment by toxicological or other safety ovaluations <br> a. Substances used or intended to be used mainly in agriculture |  |  |  |  |
| b. Substances used or intended to be used mainly in industry | 10,174 | 2,331 |  |  |
| Substances used or intended to be used mainly in households | 14,778 | 11,185 |  |  |
| Substances used or intended to be used mainly in households | 6 | 8 |  |  |
| d. Substances used or intended to be used mainly as cosmetics or toibetries | 313 | 313 |  |  |
| -. Substances used or intended to be used mainly as additives in food for human consumption <br> f. Potential or actual hazards of contaminants in the general | 1,955 | 1,927 |  | 7 |
| onvironment | 14,032 | 818 |  |  |
| 5. Education and training | 6,639 | 4,290 | 288 |  |

TABLE 3
Number of animals used in procedures concerned with diseases and disorders in the Netherlands in 1996

| Diseases and disorders | All species | Selected species |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Rodents \& Rabbits | Dogs \& Cats | Primates |
| 1. Cancer (excluding evaluation of carcinogenic hazards) | 74,112 | 74,003 | 3 | 35 |
| 2. Cardiovascular diseases | 23,507 | 22,741 | 180 |  |
| 3. Nervous and mental disorders | 9,431 | 9,237 | 108 | 40 |
| 4. Other human end enimal diseases | 59,122 | 55,095 | 131 | 17 |

TABLE 4
Number of animals used in procedures required by law in the Netherlands in 1996

| Disemses and disorders | All species | Selocted species |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  <br> Rabbits | Dogs 8 Cats | Primates |
| 1. The Netherlands only | 6,145 | 4,861 |  | 130 |
| 2. Other countries only | 460 | 24 |  |  |
| 3. Both | 235,153 | 184,354 | 513 | 104 |

## AUSTRIA

## Statistical data submitted

The statistics on the number of animals used in Austria in 1996 were transmitted by the Bundesministerium für Wissenschaft und Verkehr (Federal Ministry for Science and Transport). The data are published in the Amtsblatt zur Wiener Zeitung (Official Journal of the Vienna newspaper).

Each ministerial division involved in experimentation with animals is reporting separately the number of animals used per species or group of species with respect to the following selected purposes in accordance with §16 (1) of BGBl Nr 501/1989 :

- total number of experimental animals used per species
- number of experimental animals used for medical or educational purposes per species
- number of experimental animals used for the protection of man or the environment per species
- number of experimental animals used pursuant laws, ordinance or regulatory purposes per species.

The statistical data provided by Austria to the Commission are directly taken from the Official Journal of the Vienna newspaper and do not fit into any of the formats currently used for the presentation of the data i.e. Council of Europe Convention (ETS123) or Community proposals. The translation of the Official Journal is presented below.

## "WIENER ZEITUNG" NEWSPAPER

## Notice pursuant to 8 16(2) Animal Experimentation Act,

## Federal Law Gazette No 501/1989

Pursuant to § $16(2)$ Animal Experimentation Act, Federal Law Gazette No 501/1989, the Federal Ministers with competence in each case have to prepare statistics on the species and number of experimental animals used, classified in accordance with \& 16(1) Animal Experimentation Act [i.e. by (a) numbers and species of all experimental animals used; (b) numbers and species of experimental animals used for medical or training purposes; (c) numbers and species of experimental animals used for protection of human beings or the environment and (d) numbers and species of experimental animals used pursuant to laws and ordinances or pursuant to judicial order]; such statistics have to be published in the "Official Joumal of the Wiener Zeitung" by 30 June each year in the form of joint statistics covering the previous calendar year.

Pursuant to $\$ 16(2)$ Animal Experimentation Act, Federal Law Gazette No 501/1989, the following statistics on the use of experimental animals in 1996 are published on the basis of the reports made:

Federal Chancellor's Onice in veterinary and nutritional matters including food control:

Total number pursuant to \& $16(1)(a)$ :

None.
II.

Federal Ministry for Economic Affairs in trade and induntry matters:

Total number pursuant to \& $16(1)$ (a):
None.
I.

Federal Ministry for Lebour, Health and Social Affairs in health matters:

## Total number pursuant to $\delta 16(1)(8)$ :

Rodents (mouse, rat, hamster, guinea pig, etc.): 151021
Rabbits: 13848
Dogs: 247
Apes and monkeys: 164 (including 48 chimpanzees)
Agricultural livestock (hens, sheep, goats, pigs, cattle, etc.): 366
Amphibians: 6
Fish: 153
of which:
Pursuant to \& 16(1)(b):
Rodents (mouse, rat, hamster, guinea pig, etc.): 10782
Rabbits: 361
Agricultural livestock (hens, sheep, goats, pigs, cattle, etc.): 105
Amphibians: 6
Pursuant to \& 16(1)(c):
Rodents (mouse, rat, hamster, guinea pig, etc.): 19014
Rebbits: 156
Dogs: 115
Apes and monkeys: 110
Agricultural livestock (hens, sheep, goats, pigs, cattle, etc.): 148
Fish: 153
Pursuant to $\S 16(1)(d)$ :
Rodents (mouse, rat, hamster, guinea pig, etc.): 121225
Rabbits: 13 331
Dogs: 132
Apes and monkeys: 54 (including 48 chimpanzees)
Agricultural livestock (hens, sheep, goats, pigs, cattle, etc.): 113

## IV.

Federal Ministry for Eaviroament, Youth and the Family in matters concerning environmental protection measures:

Total number pursuant to $\% 16(1)(\mathrm{a})$ :
Rodents (mice, rats, guinea pigs): 1441
Rabbits: 160
Fish: 189
All of the abovementioned experimental animals were used in accordance with \& 16 (l)(d).

$$
\mathbf{V} .
$$

Federal Minintry for Agriculture and Forentry in matters of federal scientific inatitutions for which the Federal Ministry for Agriculture and Forestry has reaponslbility:

$$
\text { Total number pursuant to } \$ 16(1)(a) \text { : }
$$

Fish (rainbow trout): 352
All of the abovementioned experimental animals were used in accordance with $\& 16(1)(d)$.
VI.

Federal Ministry for Science and Transport in matters of higher education and of the Austrian Academy of Scieaces:

Total number pursuant to $\& 16(1)(a)$ :
Rodents (mouse, rat, hamster, guinea pig. etc.): 30478
Rabbits: $\mathbf{2} 692$
Cats: 2
Dogs: 25
Agricultural livestock (hens, sheep, goats, pigs, cattle, etc.): 1105
Amphibians: 621
Fish: 637
Other animals, i.e. horses, birds: 118
of which:
Pursuant to $\bar{\delta} 16(1)(b)$ :
Rodents (mouse, rat, hamster, guinea pig, etc.): 23478
Rabbits: 763
Cats: 2
Dogs: 25
Agricultural livestock (hens, sheep, goats,
pigs, cattle, etc.): 1045
Amphibians: 125
Fish: 637
Other animals, i.e. horses, birds: 118
Pursuant to \& $16(1)$ (c):
Rodents (mice): 5
Agricultural livestock (hens): 60
Amphibians: 496
Fish: 200
Pursuant to \& 16(1)(d):
Rodents (mouse, rat, hamster, guinea pig, etc.): 6995 Rabbits: 1929

Vienna, 12 June 1997.

| For the Federal Minister for Women's Affairs |
| :---: |
| and Consumer Protection: |
| Dr Bobek |

For the Federal Minister for Labour, Health
and Social Affairs
Dr Michtner
For the Federal Minister for Economic Affairs

Dr Poltl For the Federal Minister for Environment, Youth \begin{tabular}{c}
and the Family <br>
Dr Unterpertinger

 For the Federal Minister for Agriculture and Forestry 

Dipl.-Ing. Fuhmann <br>
For the Federal Minister for Science and Transport <br>
Dr Frahauf
\end{tabular} Dr Bobek and Social Affairs Dr Michtner Dr Poltl

and the Family
Dr Unterpertinger Dipl.-Ing Fuhrmann

Dr Frahauf

## PORTUGAL

## Statistical data submitted

The statistical data have been submitted by the "Ministério da Agricultura, Desenvolvimentos Rural e das Pescas - Direcção Geral de Veterinária" (Ministery of Agriculture, of Rural Development and of Fisheries).

The statistical tables concerning the data collected in 1996 in Portugal follow the preceding tables of the Commission (see Introduction).

Table 1 Number of animals used in experiments for selected purposes (purposes versus species)

Table 2 Number of animals used in experiments for studies on human and animal diseases (main categories versus species)

Table 3 Number of animals used in investigation/experimentation required by legislation (regulatory requirements versus species)

Table 4 Number of animals used in toxicological and other safety evaluations (products versus species)

Table 5 Number of animals used in toxicological and other safety evaluations (regulatory requirements versus species)

Table 6 Number of animals used in toxicological and other safety evaluations (types of tests versus species)

Table 7 Number of animals used in toxicological and other safety evaluations (types of tests versus products)

Table 8 Number of animals used in toxicological and other safety evaluations (types of tests versus regulatory requirements)

Table 9 Number of animals used in relation with their place of origin (origin versus species)

| $\begin{aligned} & 1 \\ & \text { spocies } \end{aligned}$ | 2 <br> Biological studies of a fundamental nature | 3 Research, development and quality control of products and apparatus for human medicine and dentistry excluding safety evaluations | 4 <br> Research, development and quality control of products and apparatus for veterinary medicine excluding safety evaluations | Diagnosis of disease | 6 <br> Toxicological and other safety evaluations of products and appliances for human modicine and dentistry and veterinary medicine | Education and training | $\begin{gathered} 8 \\ \text { Other } \end{gathered}$ | $\begin{gathered} 9 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mice (Mus musculus) | 9403 | 628 | 10923 | 8271 | 3626 | 435 | \# 1565 | 34851 |
| Rats (Rettus norvegicus) | 5014 | 586 |  |  | 182 | 875 | 282 | 6939 |
| Guinca--igs (Cavie porcellus) | 422 | 34 | 1282 | 816 | 65 | 46 | 425 | 3090 |
| Hamsters | 517 |  |  |  |  |  |  | 517 |
| Other Rodents (other Rodentia) |  | 20 |  |  | 70 | 10 |  | 100 |
| Rabbits | 169 | 12 | 629 | 133 |  | 101 | 26 | 1070 |
| Cats | 6 |  |  |  |  | 2 |  | 8 |
| Dogs |  | 7 |  |  |  | 29 |  | 36 |
| Fencts |  |  |  |  |  |  |  |  |
| Other Carnivores |  |  |  |  |  |  |  |  |
| Horres, donkeys and croos breds (Equidec) | 1 |  |  | 4 |  |  | 2 | 7 |
| Pigas (Sus) | 400 |  | 48 |  |  | 356 | 4 | 808 |
| Goats (Capra) | 5 |  |  |  |  | 33 | 17 | 55 |
| Sheep (Ovid) | 397 | 2 | 89 |  |  | 241 | 496 | 1225 |
| Bovine cattle (Bad) | 346 |  |  |  |  | 16 |  | 362 |
| Prosiminas (Phosimin) |  |  |  |  |  |  |  |  |
| New World Monteys (Ceboidea) |  |  |  |  |  |  |  |  |
| Old Wordd Monkeys (Cernopitheoaida) |  |  |  |  |  |  |  |  |
| Apes (Hominoidea) |  |  |  |  |  |  |  |  |
| Other Mimmals (other Mammalid) | 5 |  |  |  |  |  |  | 5 |
| Quail |  |  |  |  |  | - 150 |  | 150 |
| Other Birds | 16 |  | 146 | 11 |  | 6 |  | 179 |
| Reptiles (Reptiliad) |  |  |  |  |  |  |  |  |
| Amphibians (Amphibian) | 66 |  |  |  |  | 12 |  | 78 |
| Fish (Piseas) |  |  |  |  | 40 |  |  | 40 |
| TOTAL | 16767 | 1289 | 13117 | 9235 | 3983 | 2312 | 2817 | 49520 |

[^6]| $\stackrel{1}{\text { Species }}$ | ```2 \\ Human cardiovascular disenses``` | $\begin{gathered} 3 \\ \text { Human respiratory } \\ \text { disenses } \end{gathered}$ | Human nervous and mental disonders | 5 <br> Human cancer (exchuding evaluations of carcinogenic hazards) | $\begin{aligned} & 6 \\ & \text { Other human } \\ & \text { disenses } \end{aligned}$ |  | $\begin{gathered} 8 \\ \text { TOTAL } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mice (Mus muscufus) |  |  |  | 50 | 6746 | 3610 | 10406 |
| Rats (Rattus norvegicus) | \# 38 | 60 | 10 |  | 1037 |  | 1145 |
| Guinea-Pigs (Cavia porcellus) |  | 186 |  |  | 84 | 328 | 598 |
| Hamsters |  |  |  |  | 370 |  | 370 |
| Other Rodents (other Rodentid) |  |  |  |  |  |  |  |
| Rabbits | 90 | 2 |  |  | 183 | 28 | 303 |
| Cats | \# 30 |  |  |  |  |  | 30 |
| Dogs |  |  |  |  |  |  |  |
| Ferrets |  |  |  |  |  |  |  |
| Other Carnivores |  |  |  |  |  |  |  |
| Horses, donkeys and cross breds (Equidac) |  |  |  |  |  |  |  |
| Pigs (Sus) | 5 |  |  |  |  |  | 5 |
| Goats (Capra) |  |  |  |  |  |  |  |
| Sheep (Ovis) | 16 |  | , |  |  |  | 16 |
| Bovine cattle (Bos) |  |  |  |  |  |  |  |
| Prosimians (Prosimin) |  |  |  |  |  |  |  |
| New Warth Monieys (Cabaider) |  |  |  |  |  |  |  |
| Old World Monkeys (Cercoppithecouidat) |  |  |  |  |  |  |  |
| Apes (Hominaidea) |  |  |  |  |  |  |  |
| Other Mammals (other Mammalia) |  |  |  |  |  |  |  |
| Quail |  |  |  |  |  |  |  |
| Other Birds |  | 10 |  |  |  | 1 | 11 |
| Reptiles (Reprilia) |  |  |  |  |  |  |  |
| Amphibians (Amphibia) |  |  |  |  |  |  |  |
| Fish (Pisces) |  |  |  |  |  |  |  |
| TOTAL | 179 | 258 | 10 | 50 | 8420 | 3967 | 12884 |

Remarks: \#- Studies on central regulation (C.N.S.) of the cardiovascular apparatus, in relation with hypertension.

TABLE 3 - NUMBER OF ANIMALS USED IN INVESTIGATION/EXPERIMENTATION REQUIRED BY LEGISLATION
PORTUGAL YEAR 1996

| $\begin{gathered} 1 \\ \text { Spocies } \end{gathered}$ | $\underset{\substack{\text { National } \\ \text { regulations }}}{\substack{\text { n }}}$ | $\begin{gathered} 3 \\ \text { Community } \\ \text { regulations } \end{gathered}$ | $\begin{gathered} 4 \\ \begin{array}{c} \text { Thind countries } \\ \text { legislation } \end{array} \end{gathered}$ | $\stackrel{5}{\text { Combination }}$ | 6 <br> No regulatory requirements | $\stackrel{7}{\text { TOTAL }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mice (Mus museuhns) | 15405 | 6457 |  | 140 | 2334 | 24336 |
| Rats (Rattus norvegicus) | 1563 | 123 |  | 380 | 146 | 2212 |
| Guinea-Pigs (Cavie parcellus) | 1286 | 4 |  |  |  | 1290 |
| Hamsters | 257 |  |  |  |  | 257 |
| Other Rodents (other Rodentin) |  | 80 |  |  | 20 | 100 |
| Relbbits | 741 | 26 |  |  | 15 | 782 |
| Cats |  |  |  |  |  |  |
| Dog3 | 7 |  |  |  |  | 7 |
| Ferrets |  |  |  |  |  |  |
| Other Carnivores |  |  |  |  |  |  |
| Horres, donkeys and cross breds (Equider) |  |  |  |  |  |  |
| Pigs (Suct | 64 |  |  |  |  | 64 |
| Conts (Capra) |  |  |  |  |  |  |
| Sheep (Ovi) | 123 |  |  |  | 40 | 163 |
| Bovine caltle ( Das) |  |  |  |  |  |  |
| Prosimuans (Aosimin) |  |  |  |  |  |  |
| New Wordd Monkeys (Cotoidat) |  |  |  |  |  |  |
| Old Wordd Monkeys (Cernopithecosidn) |  |  |  |  |  |  |
| Apes (Homincideas) |  |  |  |  |  |  |
| Other Mammals (other Mammalia) |  |  |  |  |  |  |
| Qunil |  |  |  |  |  |  |
| Other Binds | \# 146 | 6 |  |  |  | 152 |
| Reptice (Reptilid) |  |  |  |  |  |  |
| Amphibians (Amphibin) |  |  |  |  |  |  |
| Fish (Pisoca) |  | 40 |  |  |  | 40 |
| TOTAL | 19592 | 6736 |  | 520 | 2555 | 29403 |


| $\stackrel{1}{\text { Species }}$ | 2 <br> Subetances for humen medicine and dentistry exchuding safety eveluation | Substances for velerinsary medicine exchuding safety evaluation | 4 <br> Subreinces used or intended to be used mainly in agriculture | 5 <br> Substances used or intended to be used mainly in industry | 6 <br> Subatances used or intended to be used muinty in household | 7 <br> Suhbtances used or intended to be used mainly as cosmetics or toiletries | 8 <br> Substances used or intended to be used mainly as additives in food for human conaramption | 9 <br> Sulmances used or internded to be used mainly as additives in food for animal compumption | 10 Tobecco products | 11 <br> Potential or actual contaminents in the general environment which do not appear in other columes | 12 Other taricological or safety evaluations | $\begin{gathered} 13 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mice (Mus muscuhas) | 641 | 550 | 100 |  |  |  |  |  |  | 121 | 2965 | 3757 |
| Dets (Rattus norvegicus) | 1402 |  | 50 |  |  |  |  |  |  |  |  | 1452 |
| Guinea-Figs (Clvin porceltan) |  |  |  |  |  |  |  |  |  |  | 829 | 829 |
| Hamsters |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Rodents (other Rodentio) |  |  |  |  |  | - |  |  |  |  | 70 | 70 |
| Rabbits |  |  | 15 |  |  |  |  |  |  |  | 141 | 156 |
| Cats |  |  |  |  |  |  |  |  |  |  |  |  |
| Doge |  |  |  |  |  |  |  |  |  |  |  |  |
| Ferrets |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Carnivares |  |  |  |  |  |  |  |  |  |  |  |  |
| Horse, donkejs and crows breds (Equidad) | . |  |  |  |  |  |  |  |  |  |  |  |
| Pigs (Suas) |  |  |  |  |  |  |  |  |  |  | 48 | 48 |
| Gonts (Cuprex) |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep ( Ovis ) |  |  |  |  |  |  |  |  |  |  | 59 | 59 |
| Bovine cattie (Roal |  |  |  |  |  |  |  |  |  |  |  |  |
| Prosimines (Pravimiad |  |  |  |  | . |  |  |  |  |  |  |  |
| New Word Monloys (Cabaided) |  |  |  |  |  |  |  |  |  |  |  |  |
| Old World Monkeys (Cerroppithecaides) |  |  |  |  |  |  |  |  |  |  |  |  |
| Apes (Haminaider) |  |  |  |  |  |  |  |  |  | - |  |  |
| Other Mammals (other Mammatio) |  |  |  |  |  |  |  |  |  |  |  |  |
| Qunil |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Binds |  |  |  |  |  |  |  |  |  |  | \# 32 | 32 |
| Reptiles (Reptilit) |  |  |  |  |  |  |  |  |  |  |  |  |
| Amphibians (Amphibia) |  |  |  |  |  |  |  |  |  |  |  |  |
| Fish (Pisces) |  |  |  |  |  |  |  |  |  | 40 |  | 40 |
| TOTAL | 2043 | 530 | 165 |  |  |  |  |  |  | 161 | 3544 | 6443 |

TABLE 5 - NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS
PORTUGAL YEAR 1996

| $\begin{gathered} 1 \\ \text { species } \end{gathered}$ | $\underset{\substack{\text { National } \\ \text { regulations }}}{2}$ | $\begin{gathered} 3 \\ \text { Community } \\ \text { regulations } \end{gathered}$ | Third countrics legisataion | $\stackrel{5}{\text { Combination }}$ | 6 <br> No regulatory requirements | $\stackrel{7}{\text { TOTAL }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mice (Mus musculus) | 6130 | 3441 |  | 20 | 60 | 9651 |
| Rats (Routhes norvegicul) |  |  |  | 12 | 13 | 25 |
| Guinea-Pigs (Cavis poncelhus) | 760 | 4 |  | 65 |  | 829 |
| Hamsters |  |  |  |  |  |  |
| Other Rodents (other Rodentin) |  | 70 |  |  |  | 70 |
| Rabbits | 141 |  | - |  |  | 141 |
| Cats |  |  |  |  |  |  |
| Dogs |  |  |  |  |  |  |
| Ferrets |  |  |  |  |  |  |
| Other Carnivores |  |  |  |  |  |  |
| Hores, donkeys and cross breds (Equida) |  |  |  |  |  |  |
| Pigs (Sus) | 48 |  |  |  |  | 48 |
| Goats (Cayra) |  |  |  |  |  | 59 |
| Sheep (Ovis) | 59 |  |  |  |  |  |
| Bovine cattle ( Das) |  |  |  |  |  |  |
| Prosiminns (Prosimid) |  |  |  |  |  |  |
| New World Monkers (Cotoided) |  |  |  |  |  |  |
| Old World Monkeys (Caroopithocaida) |  |  |  |  |  |  |
| Apes (Hominoiden) |  |  |  |  |  |  |
| Other Mammuls (other Mammalin) |  |  |  |  |  |  |
| Quail |  |  |  |  |  |  |
| Other Binds | \# 32 |  |  |  |  | 32 |
| Reptiles (Reptilitio) |  |  |  |  |  |  |
| Amphibians (Amphibid) |  |  |  |  |  |  |
| Fish (Piscas) |  | 40 |  |  |  | 40 |
| TOTAL | 7170 | 3555 |  | 97 | 73 | 10895 |

TABLE 6 - NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS
PORTUGAL YEAR 1996

| $\begin{gathered} 1 \\ \text { Spocies } \end{gathered}$ | 2 <br> Acute (14 days) and sub-acute (28 days) toxicity testing methods (inchuding limit test) |  |  | 3 Skin irritation | $\begin{aligned} & \text { SKin } \\ & \text { semsiti- } \\ & \text { sation } \end{aligned}$ | $\begin{gathered} 5 \\ \text { Are } \\ \text { irri- } \\ \text { tation } \end{gathered}$ | 6 <br> Sub-chronic and chronic toxicity (more than 28 days) |  |  |  | ductive toxicity | 8 <br> Toxicity to aquatic vertebrates not included in other | $\begin{aligned} & 9 \\ & \text { Other } \\ & \text { tests } \end{aligned}$ | $\begin{gathered} 10 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 2.1 \\ \text { LD50 } \\ \text { LC50 } \end{gathered}$ | $\begin{aligned} & 2.2 . \\ & \text { Other } \\ & \text { lethal } \\ & \text { methods } \end{aligned}$ | 2.3 <br> Non lethal clinical signs methods |  |  |  | $\begin{gathered} \text { 6.1 } \\ \text { sub- } \\ \text { chrovic } \\ \text { toxicity } \end{gathered}$ | 6.2 Carcinogenicity | 6.3 Develop- mental Coxicity |  |  |  |  |  |
| Mice (Mus muscuhas) | 550 | 1110 | 20 |  |  |  |  |  |  |  |  |  | 190 | 1870 |
| Rats (Rettus norvegicus) |  |  | 25 |  |  |  |  |  |  |  | 50 |  |  | 75 |
| Guinea-Pigs (Crvis parcellus) |  |  |  |  |  |  |  |  |  |  |  |  | 69 | 69 |
| Hamsters |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Rodents (other Rodentin) | 35 |  |  |  |  |  |  |  |  |  | 35 |  |  | 70 |
| Rabbits |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cants |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dogs |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ferrets |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Carnivores |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Horses, donkeys and cross breds (Equidac) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pigs (Sus) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Goats (Cupra) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sheep (Ovis) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bovine cattie (Aos) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Prosimians (Prosimio) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New World Monleys (Cabaided) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Old World Monkeys (Cercoppithocoidin) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Apes (forminoidea) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Other Mammals (other Mammalia) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Quail |  |  | . |  |  |  |  |  |  |  |  |  |  |  |
| Other Birds | 15 |  |  |  |  |  |  |  |  |  |  |  |  | 15 |
| Reptiles (Reptilia) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Amphibians (Amphibis) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fish (Pisces) | 40 |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
| TOTAL | 640 | 1110 | 45 |  | . |  |  |  |  |  | 85 |  | 259 | 2139 |

TABLE 7 - NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS
FORTUGAL YEAR 1996

| 1Species | 2 <br> Acute ( 14 days) and sub-acute (28 days) toxicity testing methods (including limit test) |  |  | 3 Skin irritation | $\begin{gathered} \text { 4 } \\ \text { Skin } \\ \text { sensiti- } \\ \text { sation } \end{gathered}$ | $\begin{gathered} 5 \\ \text { Eye } \\ \text { irri- } \\ \text { tation } \end{gathered}$ | 6 <br> Sub-chronic and chronic toxicity (more than 28 days) |  |  |  | 7 <br> Reproductive toxicity | 8 Toxicity to squatic vertebrates not included in other |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 2.1 \\ & \text { LD50 } \\ & \text { LCSO } \end{aligned}$ | 2.2. <br> Other <br> lethal <br> methods | 2.3 <br> Non lethal clinical signs methods |  |  |  | 6.1 Subchronic toxicity | 6.2 Carcino- genicity | 6.3 <br> Developmental toxicity |  |  |  |  |
| Substances for human medicine and dentistry excluding safety evaluation | 20 |  | 45 |  |  |  |  |  |  |  |  |  | 79 |
| Substances for veterinary modicine excluding safety evaluation |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substances used or intended to be used mainly in agriculture |  |  |  |  |  |  |  |  |  |  | 50 |  |  |
| Substances used or intended to be used mainly in industry |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Subotinces used or intended to be used mainly in houschold |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substances used or intended to be used mainly as comactics or toiletries |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Subetances used or intended to be used mainly as additives in food for human conrumeption |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substances used or intended to be used mainly as additives in food for animal consumption |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tobecco products |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Potential or actual contaminents in the general envinonment which do not appear in other columns | 35 | 106 |  |  |  | . |  |  |  |  | 35 |  | 15 |
| Other toricological or safety evaluations |  |  |  |  |  |  |  |  |  |  |  | 40 | 70 |
| TOTAL | 55 | 106 | 45 |  |  |  |  |  |  |  | 85 | 40 | 164 |


| $\stackrel{1}{\substack{\text { Species }}}$ | Acute ( 14 days) and sub-acute (28 days) toxicity testing methods (including limit test) |  |  | $\begin{gathered} \mathbf{3} \\ \substack{\text { Skin } \\ \text { irri- } \\ \text { tation }} \end{gathered}$ | $\begin{gathered} \text { Skin } \\ \text { Sensiti- } \\ \text { sation } \end{gathered}$ | $\begin{gathered} \mathbf{5} \\ \substack{\text { Ere } \\ \text { irri- } \\ \text { tation }} \end{gathered}$ | Sub-chromic and chronic toxicity (more than 28 days) |  |  |  |  | Toxicity to aquatic vertebrates not inchuded in other | $\begin{aligned} & 9 \\ & \text { Other } \\ & \text { tects } \end{aligned}$ | $\begin{gathered} 10 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} 2.1 \\ \text { 1050 } \\ \text { LC50 } \end{gathered}$ | 2.2. <br> Other kethal method | $\qquad$ <br> 2.3 Non lethal ctinical signs methods |  |  |  |  | $\begin{gathered} 6.2 \\ \text { Carcino- } \\ \text { genicity } \end{gathered}$ | 6.3 <br> $\begin{array}{c}\text { Develop- } \\ \text { mental }\end{array}$ toxicity | $\begin{gathered} \text { G.4 } \\ \text { Muta- } \\ \text { genicity } \end{gathered}$ |  |  |  |  |
| National regulations |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| European regulations | 35 | 106 |  |  |  |  |  |  |  |  | 35 | 40 | 54 | 270 |
| Third countries legislation |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Combination | 20 |  | 45 |  |  |  |  |  |  |  |  |  | 65 | 130 |
| No regulatory requirements | 20 |  | 13 |  |  |  |  |  |  |  |  |  | 40 | 73 |
| TOTAL | 75 | 106 | 58 |  |  |  |  |  |  |  | 35 | 40 | 159 | 473 |


| $\underset{\text { Spocies }}{1}$ | 2 <br> Animals coming from registered breeding or supplying establishments within the EU | 3 <br> Animals coming from other sources within the EU | Animals coming from non-EU countries | $\begin{gathered} \mathbf{5} \\ \text { TOTAL } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Mice (Mus musculus) | 11470 | 620 |  | 12090 |
| Rets (Rattus norvegicus) | 5091 | 786 |  | 5877 |
| Guinea-Pigs (Cavin porcelhus) | 334 | 130 |  | 464 |
| Hamsters | 687 |  |  | 687 |
| Rabbits | 178 | 46 |  | 224 |
| Cats | 8 |  |  | 8 |
| Dogs | 7 |  |  | 7 |
| Prosimians (Prosimin) |  |  |  |  |
| New World Monleys (Cethoiden) |  |  |  |  |
| Old World Monkeys (Cerropithecoiden) |  |  |  |  |
| Apes (Haminoided) |  |  |  |  |
| Quail | \# 150 | \# 16 |  | 166 |
| TOTAL | 17925 | 1598 |  | 19523 |

## FINLAND

## Statistical data submitted

The statistical data of 1996 submitted by Finland have been provided by the Ministry of Agriculture and Forestry, Veterinary and Food Department.

The tables of statistics submitted by Finland for 1996 follow essentially the format of the Convention tables for the Council of Europe (ETS 123) (see Introduction).

Table 1 The numbers, kinds and sources of animals used in procedures
Table 2 The number of animals used in procedures for selected purposes
Table 3 The number of animals used in procedures for selected purposes for the protection of man, animals and the environment by toxicological or safety evaluation
Table 4 The number of animals used in procedures concerned with diseases and disorders

Table 5 The number of animals used in procedures required by law

## APPENDIX

Finland 1996

TABLES OF APPENDIX B The numbers, kinds and sources of animals used in procedures during (year) in (Party)

| TABLE 1 | Total | From ${ }^{1}$ breeding or user establ. registered within the Party | From other parties to the Convention | From other sources | $\begin{aligned} & \text { Re- } \\ & \text { used } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Mice (Mus musculus) | 36244 | 29547 | 6553 | 131 |  |
| Rats (Ratus norvegicus) | 36316 | 24919 | 7978 | 645 |  |
| Guinea pigs (Cavia porcellus) | 1904 | 1112 | 792 |  |  |
| Golden hamsters (Mesocricetus auratus) | 40 | 20 | 20 |  |  |
| Other rodents (other Rodentia) | 719 |  |  |  |  |
| Rabbits (Oryctolagus cuniculus) | 1536 | 997 | 531 |  | 58 |
| Prosimians (Prosimia) |  |  |  |  |  |
| New World Monkeys (Ceboidea) | 8 | 8 |  |  |  |
| Old World Monkeys (Cercopithecoidea) | 9 |  | 1 | , | 8 |
| Apes (Hominoidea) |  |  |  |  |  |
| Dogs (Canis familiaris) | 97 | 47 | 50 |  |  |
| Cats (Felix catus) | 5 | 5 |  |  | 5 |
| Other carnivores (other Carnivora) | $1+6$ |  |  |  |  |
| Horses, donkeys and cross breds (Equidac) | 252 |  |  |  |  |
| Pigs (Sus) | 488 |  |  |  |  |
| Goats \& Sheep (Capra \& Ovis) | 518 |  |  |  |  |
| Cattle (Bor) | 839 |  |  |  |  |
| Other mammals (other Mammalia) | 18 |  |  |  |  |
| Quail (Coturnix cotumix) |  |  |  |  |  |
| Other birds (other Aves) | 1912 |  |  |  |  |
| Reptiles (Reptilia) |  |  |  |  |  |
| Amphibians (Amphibia) | 3167 |  |  |  |  |
| Fish (Pisces) | 26441 |  |  |  |  |
| Total | 110659 |  |  |  |  |

' Directly or indirectly (see article 21 with the addition of Primates)

TABLE 2
The number of animals used in procedures for selected purposes during (year) in (Party)

| FINLAND 1996 |  |  | Selected species |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All species | Rodents and rabbits | Dogs and cats | Primates |
| 1 | Biological (including medical) studies of a fundamental nature | 51190 | 46047 | 41 | 16 |
| 2 | Research into, development and quality control (not including safety evaluation) of products or appliances for human and veterinary medicine | 45869 | 23657 | 10 | 1 |
| 3 | Diagnosis of disease | 1274 | 433 |  |  |
| 4 | Protection of man, animals and the environment by toxicological or safety evaluation (including safety evaluation of products or appliances for human and velerinary medicine) | 6294 | 2867 | 40 |  |
| 5 | Education and training | 3182 | 2555 | 1 |  |
| 6 | Ohers | 203 | 115 |  |  |

## TABLE 3

The number of animals used in procedures for selected purposes for the protection of man, animals and the environment by toxicological or safety evaluation during (year) in (Party) (including safety evaluation of products or appliances for human and veterinary medicine)

| FINLAND 1996 |  |  | Selected species |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All species | Rodents and rabbits | Dogs and cats | Primates |
|  | Substances used or intended to be used mainly ${ }^{1}$ in agriculture | 1340 | 140 |  |  |
|  | Substances used or intended to be used mainly' in households | 12 | 12 |  |  |
|  | Substances used or intended to be used mainly ${ }^{1}$ as cosmetics or toiletries |  |  |  |  |
|  | Substances used or intended to be used mainly ${ }^{1}$ as additives in food for human consumption |  |  |  |  |
|  | Substances used or intended to be used mainly ${ }^{1}$ in industry which do not appear in rows 1, 2, 3 and 4 | 105 | 468 | - |  |
|  | ${ }^{2}$ Potential or actual havards of contaminants in the general environnent which do not appear in the other rows | 941 | 286 |  |  |
|  | Safety evaluation of products or appliances for human or vetcrinary medicine | 11437 | 3397 | 40 |  |

I The primary purpose for which it will be used as envisaged at the time when testing was performed.
${ }^{2}$ When substances belonging to the categories in the other rows in this table require testing as contaminants (e.g. leakage or release leading to the pollution of the environment) this resting should be recorded in row 6 .

TABLE 4
The number of animals used in procedures concerned with diseases and disorders ${ }^{1}$ during (year) in (Party)

| FINLAND 1996 |  |  | Selected species |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | All species | Rodents and rabbits | Dogs and cats | Primates |
| 1 | Human cancer (excluding evaluations of carcinogenic hazards) | 2153 | 1594 |  | 8 |
| 2 | Cardiovascular human diseases | 4116 | 4880 |  |  |
| 3 | Nervous and mental human disorders | 4727 | 8109 |  |  |
| 4 | Other human diseases | 12142 | 14460 |  | 1 |
| 5 | Animal diseases | 470 | 244 |  |  |

Note: When a procedure covers cancer under any item from 2 to 4, the canceer classification should take precedence.

1 If the type of human disease or disorder is not precisely known, the data should he entered in row 4.

## TABLE 5

The number of animals used in procedures required by law during (year) in (Party)

| FINLAND 1996 |  |  |  | Selected species |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All species | Rodents and rabbits | Dogs and cats | Primates |
| 1 | Party only |  | 14409 | 14455 | 50 |  |
| 2 | Other Parties and other States | Other Parties or member States |  |  |  |  |
|  |  | Other States |  |  |  |  |
| 3 | Both (1 + 2): <br> Party and oher Parties/States |  | 3656 | 3316 |  |  |
| 4 | Total |  | 18065 | 17771 | 50 |  |

## SWEDEN

## Comments made by Swedish authorities

Sweden indicated that in tables 7 and 8, the data for sub-acute toxicity testing is counted together with sub-chronic and chronic toxicity testing and not with acute testing. This is due to the procedure of collecting the data for 1996. Since the methods used in subacute toxicity testing is not reported, Sweden can only distinguish the following for the animals concerned:

| Species | Sub-acute toxicity | Sub-chronic and chronic toxicity | Total |
| :--- | :---: | :---: | ---: |
| Mice | 561 | 81 | 642 |
| Rats | 1,523 | 1,091 | 2,614 |
| Rabbits | 10 | 0 | 10 |
| Cats | 0 | 44 | 44 |
| Dogs | 185 | 113 | 298 |
| Total | 2,279 | 1,329 | 3,608 |

## Statistical data submitted

The statistical data submitted by Sweden were provided by the National Board for Laboratory Animals of the Ministry of Agriculture.

The statistical data for 1996 follow the EU tables of statistics of 1997.
Table 1 Number of animals used in relation with their place of origin (origin versus species)

Table 2 Number of animals used in experiments for selected purposes (purpose versus species)
Table 3 Number of animals used in toxicological and other safety evaluations (products versus species)
Table 4 Number of animals used in experiments for studies on human and animal diseases (main categories versus species)
Table 5 Number of animals used in production and quality control of products and devices for human medicine and dentistry and for veterinary medicine (regulatory requirements versus species)
Table 6 Number of animals used in toxicological and other safety evaluations (regulatory requirements versus species)
Table 7 Number of animals used in toxicological and other safety evaluations (types of tests versus species)
Table 8 Number of animals used in toxicological and other safety evaluations (types of tests versus products)

TABLE 1: NUMBER OF ANIMALS USED IN RELATION TO THEIR PLACE OF ORIGIN
Origin versus species

|  | $\begin{gathered} 1.1 \\ \text { Species } \end{gathered}$ | $\begin{gathered} 1.2 \\ \text { Total } \end{gathered}$ | 1.3 <br> Animals coming from registred breoding or supplying establishments within the reporting country | 1.4 Animals coming from elsewtere in the EC | 1.5 <br> Animals coming from Member Countries of the Council of Europe which are partics to the Convention ETS 123 (excluding EC Member States) | 1.6 Animals coming from other origins | $\begin{gathered} 1.7 \\ \text { Re-used animals } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mice ( (fus musculus) | 131496 | 86787 | 43137 | 25 | 1547 |  |
| 1.b. | Rals (Rattus nonvegicus) | 118404 | 69724 | 48203 | 200 | 277 |  |
| 1.c. | Guinea-Pigs (Cavia porcellis) | 10807 | 3314 | 7493 | 0 | 0 |  |
|  | Hamsters (Afesocricetus) | 551 | 439 | 112 | 0 | 0 |  |
| 1.e. | Other Rodents (othr Rodentia) | 500 |  |  |  |  |  |
| 1.f. | Rabbits (Oryctolagus cumiculus) | 5164 | 4967 | 197 | 0 | 0 | 104 |
| 1.g. | Cals (Felis catus) | 382 | 382 | 0 | 0 | 0 | 2 |
| 1.h. | Dogs (Canis familiaris) | 695 | 539 | 133 | 23 | 0 | 155 |
| 1.i. | Ferters (Afustela pusorius furo) | 97 | 97 | 0 | 0 | 0 | 1 |
| 1.j. | Ohher Camivores (ouher Carnivora) | 92 |  |  |  |  |  |
| 1.k. | Horses, donkeys and cross trods (Equidae) | 22 | \%* |  |  |  |  |
| 1.1. | Pigs (Sns) | 2589 |  |  |  |  |  |
| 1.m. | Goats (Capra) | 24 |  |  |  |  | 朗 |
| 1.n. | Shaip (Ovis) | 148 | / |  |  |  |  |
|  | Catile (Bos) | 287 | N |  |  |  |  |
| 1.p. | Prosimians (Prosimia) | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.4 | New World Monkeys (C'eboidea) | 22 | 22 | 0 | 0 | 0 | 0 |
| 1.r. | Old World Monkeys (Cercopithecoidea) | 24 | 19 | 0 | 0 | 5 | 23 |
| 1.s. | Apes (Hominoidea) | 0 | 0 | 0 | 0 | 0 | 0 |
| 1.1. | Oher Mlanmals (outher A fammalia) | 41 |  |  |  |  |  |
| $1 . \mathrm{u}$. | Quail (Coturnix coturnix) | 0 | 0 | 0 | 0 | 0 |  |
| 1.v. | Oher birds (other Aves) | 3178 |  |  |  |  |  |
| 1.w. | Reprikes (Reptilia) | 25 |  |  |  | *** |  |
| 1.x. | Amphibians (Amphihia) | 5433 |  |  |  |  |  |
| 1.y. | Fish (Pisces) | 6031 |  |  |  |  |  |
| 1.2 | TOTAL | 286012 |  |  |  |  |  |

Note: The number of re-used animals in column 1.7 should be excluded from the total in the column 1.2

TABLE 2: NUMBER OF ANIMALS USED IN EXPERIMENTS FOR SELECTED PURPOSES

## Purpose versus species

|  | $\begin{gathered} 2.1 \\ \text { Species } \end{gathered}$ | 2.2 <br> Biological studies of a fundamental nature | 2.3 <br> Resemph and development of products and devices for human medicine and dentistry and for veterinary medicine (excluding toxicological and other safety evaluations coumted in column 2.6) | 2.4 <br> Production and quality control of products and devices for hummin medicine and dentistry | 2.5 <br> Production and quality control of products and devices for veterinary medicine | 2.6 Toxicological and other safety evaluations (including safety evaluation of products and devices for humnim medicine and demistry mad for veterinary medicine) | 2.7 <br> Diagnosis of disease | 2.8 Education and training | $\begin{gathered} 2.9 \\ \text { Other } \end{gathered}$ | $\begin{aligned} & \hline 2.10 \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.a. | Mice | 50988 | 63809 | 5291 | 4110 | 3993 | 1516 | 1153 | 636 | 131496 |
| 2.b. | Ravs | 66922 | 39488 | 3880 | 0 | 4607 | 1653 | 1751 | 103 | 118404 |
| 2.c. | Guinex-Pigs | 1530 | 4507 | 2947 | 118 | 1507 | 31 | 43 | 124 | 10807 |
| 2.d. | llamsters | 374 | 149 | 0 | 0 | 0 | 12 | 16 | 0 | 551 |
| 2.e. | Oher Rodents | 312 | 188 | 0 | 0 | 0 | 0 | 0 | 0 | 500 |
| 2.f. | Rabbits | 1757 | 2295 | 557 | 0 | 196 | 101 | 49 | 209 | 5164 |
| 2.g. | Cats | 244 | 94 | 0 | 0 | 44 | 0 | 0 | 0 | 382 |
| 2.h. | Dogs | 12 | 222 | 0 | 0 | 376 | 3 | 82 | 0 | 695 |
| 2.i. | Ferrets | 94 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 97 |
| 2.j. | Other Camivores | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 92 |
| 2.k. | Horses, dorikeys and cross breds | 4 | 2 | 0 | 4 | 0 | 0 | 0 | 12 | 22 |
| 2.1. | Pigs | 1547 | 203 | 0 | 0 | 0 | 220 | 308 | 311 | 2589 |
| 2.m. | Gosts | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 24 |
| 2.n. | Sheep | 22 | 64 | 0 | 0 | 0 | 0 | 3 | 59 | 148 |
| 2.0. | Catte | 115 | 2 | 55 | 0 | 0 | 57 | 6 | 52 | 287 |
| 2.p. | Prosimians | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.q. | New World Monkeys | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 2.r. | Old World Monkeys | 11 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| 2.s. | Apes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $2 . t$ | Other Mammals | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| 2.u. | Quail | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2.v. | Other birds | 1303 | 722 | 48 | 0 | 0 | 0 | 0 | 1105 | 3178 |
| 2.w. | Reptiles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 25 |
| 2.x. | Amphibians | 433 | 0 | 0 | 0 | 5000 | 0 | 0 | 0 | 5433 |
| 2.y. | Fish | 3281 | 0 | 0 | 0 | 2750 | 0 | 0 | 0 | 6031 |
| 2.z. | TOTAL | 129119 | 111761 | 12778 | 4232 | 18473 | 3593 | 3411 | 2645 | 286012 |

TABLE 3: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS

## Products versus species

|  | $\begin{gathered} 3.1 \\ \text { Species } \end{gathered}$ | 3.2 <br> Products/ substances or devices for human medicinc and dentistry and for veterinary medicine | 3.3 <br> Products/ substances used or intended to be used mainly in agriculture | 3.4 <br> Products/ substances used or inteded to be used mainly in industry | 3.5 <br> Products/ substances used or intended to be used mainly in the household | 3.6 <br> Products/ substances used or intended to be used mainly as cosmetics or toiletries | 3.7 <br> Products/ substances used or intended to be used mainly as additives in food for human consumption | 3.8 <br> Products/ <br> substances used or intended to be used mainly as additives in food for animal consumption | 3.9 <br> Potential or actual contaminents in the general environment which do not appear in other columns | 3.10 <br> Other toxicological or safety evaluations | $\begin{aligned} & 3.11 \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3.a. | Mice | 3246 | 0 | 157 | 0 | 0 | 0 | 157 | 0 | 433 | 3993 |
| 3.b. | Rats | 3371 | 0 | 0 | 0 | 0 | 0 | 28 | 1208 | 0 | 4607 |
| 3.c. | Guinem-Pigs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1507 | 0 | 1507 |
| 3.d. | Hamsters | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.c. ${ }^{\text {a }}$ | Other Rodents | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.f. | Rabbits | 196 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 196 |
| 3.g. | Cats | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 3.h. | Dogs | 376 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 376 |
| 3.i. | Ferrets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.j. | Oher Cmmivores | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.k. | Horses, donkeys mad cross breds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.1. | Pigs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.m. | Goats | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.n. | Sheep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.0. | Catle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.p. | Prosimians | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.9. | New World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.r. | Old World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.s. | Apes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.L | Other Mammals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.u. | Quail | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.v. | Ouher birds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.w. | Reptiles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3.x. | Amphibians | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5000 | 0 | 5000 |
| 3.y. | Fish | 0 | 0 | 130 | 0 | 0 | 0 | 2620 | 0 | 0 | 2750 |
| 3.2. | TOTAL | 7233 | 0 | 287 | 0 | 0 | 0 | 2805 | 7715 | 433 | 18473 |

TABLE 4: NUMBER OF ANIMALS USED IN EXPERIMENTS FOR STUDIES ON HUMAN AND ANIMAL DISEASES
Main categories versus species

|  | $\begin{gathered} 4.1 \\ \text { Species } \end{gathered}$ | 4.2Human cardiovascular <br> diseases | 4.3 Human nervous and mental disorders | 4.4 <br> Humm cancer (excluding evaluations of carcinogenic hazards or risks) | $\stackrel{4.5}{\text { Other human diseases }}$ | $4.6$ <br> Studies specific to animal diseases | $\begin{aligned} & 4.7 \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4.2. | Mice | 4411 | 15432 | 38189 | 56257 | 5689 | 119978 |
| 4.b. | Rats | 7192 | 29191 | 25843 | 42320 | 2658 | 107204 |
| 4.c. | Guinea-Pigs | 499 | 2923 | 0 | 4946 | 92 | 8460 |
| 4.d. | Hamsters | 26 | 0 | 18 | 491 | 0 | 535 |
| 4.c. | Ohher Rodents | 57 | 228 | 21 | 180 | 0 | 486 |
| 4.f. | Rabbits | 1004 | 550 | 147 | 2784 | 15 | 4500 |
| 4.8. | Cris | 73 | 62 | 0 | 132 | 60 | 327 |
| 4.h. | Dogs | 85 | 42 | 2 | 84 | 24 | 237 |
| 4.i. | Ferrets | 2 | 94 | 0 | 1 | 0 | 97 |
| 4.j. | Other Camivores | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.k. | Horses, donkeys and cross breds | 0 | 0 | 0 | 0 | 10 | 10 |
| 4.1. | Pigs | 946 | 18 | 0 | 568 | 66 | 1598 |
| 4.m. | Goats | 1 | 0 | 0 | 0 | 0 | 1 |
| 4.n. | Sheep | 64 | 0 | 0 | 18 | 7 | 89 |
| 4.0. | Contle | 0 | 0 | 0 | 2 | 174 | 176 |
| 4.p. | Prosimians | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.9. | New Word Monkeys | 0 | 22 | 0 | 0 | 0 | 22 |
| 4.r. | Old World Monkeys | 0 | 11 | 0 | 13 | 0 | 24 |
| 4.s. | Apes | 0 | 0 | 0 | 0 | 0 | 0 |
| $4 . L$ | Ohher Mammals | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.u. | Quail | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.v. | Other birds | 56 | 0 | 0 | 724 | 330 | 1110 |
| 4.w. | Reptiles | 0 | 0 | 0 | 0 | 0 | 0 |
| 4.x. | Amphibians | 0 | 0 | 0 | 0 | 0 | 0 |
| $4 . y$. | Fish | 0 | 26 | 0 | 0 | 800 | 826 |
| 4.2 | TOTAL | 14416 | 48599 | 64220 | 108520 | 9925 | 245680 |

TABLE 5: NUMBER OF ANIMALS USED IN PRODUCTION AND QUALITY CONTROL OF PRODUCTS AND DEVICES FOR HUMAN MEDICINE AND DENTISTRY AND FOR VETERINARY MEDICINE

|  | $\begin{gathered} 5.1 \\ \text { Species } \end{gathered}$ | S.2 National legislation specific to a single EC Member State 1) | 5.3 EC legislation including Europem Phamacopocia (requirements) | 5.4 <br> Member Country of Council <br> of Europe (bun not EC) <br> legislation <br> 2) | $\underset{\text { Other legislation }}{ }$ | 5.6 <br> Any combination of 5.2/5.3/5.4/5.5 | 5.7 <br> No regulatory requirements | $\begin{gathered} 5.8 \\ \text { Total } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5.a. | Mice | 0 | 357 | 0 | 0 | 8987 | 57 | 9401 |
| S.b. | Rats | 0 | 28 | 0 | 1768 | 2074 | 10 | 3880 |
| 5.c. | Guinen-Pigs | 0 | 4 | 0 | 0 | 3035 | 26 | 3065 |
| 5.d. | Himsters | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S.e. | Other Rodents | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.f. | Rabbits | 0 | 0 | 0 | 0 | 507 | 50 | 557 |
| 5.g. | Cats | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.h. | Dogs | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.i. | Ferrets | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.j. | Other Carnivores | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.k. | Horses, donkeys and cross breds | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 5.1. | Pigs | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.m. | Goats | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| 5.n. | Sheep | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S.O. | Cantile | 0 | 0 | 0 | 0 | 0 | 55 | 55 |
| S.p. | Prosimimas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.q. | New World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S.r. | Old World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.s. | Apes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.L. | Other Mammals | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.u. | Quail | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S.v. | Oher binds | 0 | 0 | 0 | 0 | 48 | 0 | 48 |
| 5.w. | Repriles | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.x. | Amphibians | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.y. | Fish | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.2 | TOTAL | 0 | 389 | 0 | 1768 | 14651 | 202 | 17010 |

# Footnotes: <br> <br> 1) EC Member States: Austria, Belgiam, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Laxembourg, Netherlands, Portugal, Spain, Sweden, United <br> <br> 1) EC Member States: Austria, Belgiam, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Laxembourg, Netherlands, Portugal, Spain, Sweden, United Kingdom 

 Kingdom}
2) Member Cowntries of Council of Earope (nom-EC): Albania, Andorra, Bulgaria, Croatia, Cyprus, Czech Rep., Estonia, Hungary, Iceland, Latvia, Liechtenstein, Lithuania, Malta, Moldova, Norway, Poland, Romania, Russia, San Marino, Slovakia, Slovenia, Switzerland, 'the former Yugoslav Rep. of Macedonia', Turkey, Ukraine

## TABLE 6: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS

## Regulatory requirements versus species

|  | 6.1 Species | 6.2 <br> National legislation specific to a single EC Member State 1) | 6.3 EC legislation including European Pharmacopoeia (requirements) | 6.4 <br> Member Country of Council <br> of Europe (but not EC) <br> legislation <br> 2) | 6.5 Other legislation | 6.6 Any combination of $6.2 / 6.3 / 6.4 / 6.5$ | 6.7 No regulatory requirements | $\begin{aligned} & 6.8 \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6.8. | Mice | 226 | 0 | 0 | 0 | 2917 | 850 | 3993 |
| 6.b. | Rats | 808 | 20 | 0 | 192 | 3159 | 428 | 4607 |
| 6.c. | Guinea-Pigs | 252 | 0 | 0 | 0 | 0 | 1255 | 1507 |
| 6.d. | Hamsters | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.e. | Other Rodents | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.f. | Rabbits | 0 | 0 | 0 | 0 | 196 | 0 | 196 |
| 6.g. | Cats | 0 | 44 | 0 | 0 | 0 | 0 | 44 |
| 6.h. | Dogs | 0 | 0 | 0 | 0 | 376 | 0 | 376 |
| 6.i. | Ferrets | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.j. | Oher Camivores | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.k.: | Horses, donkeys and cross breds | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.1. | Pigs | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $6 . \mathrm{m}$. | Goats | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.n. | Sheep | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.0. | Catte | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.p. | Prosimians | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.9. | New World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.r. | Old World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.s. | Apes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.2. | Oiher Mammals | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.u. | Quail | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.v. | Other birds | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.w. | Reptiles | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.x. | Amphibians | 0 | 0 | 0 | 0 | 0 | 5000 | 5000 |
| 6.y. | Fish | 2020 | 600 | 0 | 0 | 0 | 130 | 2750 |
| 6.2. | TOTAL | 3306 | 664 | 0 | 192 | 6648 | 7663 | 18473 |

Footnotes: 1) EC Member States: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, United Kingdom
2) Member Countries of Council of Europe (non-EC): Albania, Andorra, Bulgaria, Croatia, Cyprus, Czech Rep., Estonia, Hungary, Iceland, Latvia, Liechtenstein, Lithuania, Malta, Moldova, Norway, Poland, Romania, Russia, San Marino, Slovakia, Slovenia, Switzerland, 'the former Yugoslav Rep. of Macedonia', Turkey, Ukraine

Types of tests versus species

| $\begin{gathered} 7.1 \\ \text { Species } \end{gathered}$ |  | 7.2Acute toxicity testing methods (including <br> limit test)* for sub-acute toxicity see 7.6 |  |  | 7.3 Skin irritation | 7.4 Skin sensitisa- tion |  | 7.6 Sub- chronic and chronic toxicity * including sub-acute toxicity | 7.7 Carcino- genicity | 7.8 Developmental toxicity | 7.9 <br> Muta- <br> genicity | 7.10 Reproductive toxicity | 7.11 <br> Toxicity to aquatic vertebrates not included in other columns | $\begin{aligned} & 7.12 \\ & \text { Other } \end{aligned}$ | $\begin{aligned} & \hline 7.13 \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7.a. | Mice | 95 | 298 | 1759 | 0 | 433 | 0 | 642* | 0 | 0 | 750 | 0 | 0 | 16 | 3993 |
| 7.b. | Rats | 0 | 1202 | 96 | 0 | 0 | 0 | $2614^{*}$ | 0 | 470 | 0 | 123 | 0 | 102 | 4607 |
| 7.c. | Guinea-Pigs | 0 | 252 | 0 | 137 | 1118 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1507 |
| 7.d. | Hamsters | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.e. | Other Rodents | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.f. | Rabbits | 0 | 0 | 0 | 67 | 0 | 0 | $10^{*}$ | 0 | 119 | 0 | 0 | 0 | 0 | 19 |
| 7.5. | Cats | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| 7.h. | Dogs | 0 | 0 | 18 | 0 | 0 | 0 | 298* | 0 | 0 | 0 | 0 | 0 | 60 | 376 |
| 7.i. | Ferrets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.j. | Other Cmmivores | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.k. | Horses, donkeys and cross breds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.I.. | Pigs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - 0 |
| 7.m. | Goats | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.n. | Sheep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.0. | Catile | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.p. | Prosimians | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.q. | New World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.r. | Old World Monkeys | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.s. | Apes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.t. | Other Mammals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.u. | Quail | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.v. | Oiher birds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.w. | Repriles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.x. | Amphibians | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5000 | 0 | 5000 |
| 7.9. | Fish | 600 | 0 | 130 | 0 | 0 | 0 | 0 | 0 | 340 | 0 | 0 | 1680 | 0 | 2750 |
| 7.2. | TOTAL | 695 | 1752 | 2003 | 204 | 1551 | 0 | 3608* | 0 | 929 | 750 | 123 | 6680 | 178 | 18473 |

TABLE 8: NUMBER OF ANIMALS USED IN TOXICOLOGICAL AND OTHER SAFETY EVALUATIONS
Types of tests versus products

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \[
\begin{gathered}
8.1 \\
\text { Products }
\end{gathered}
\] \& \multicolumn{3}{|l|}{\begin{tabular}{l}
8.2 \\
Acute toxicity lesting methods (including Jimit test) \\
- for sub-acute toxicity see 8.6
\end{tabular}} \& \[
\begin{gathered}
8.3 \\
\text { Skin } \\
\text { irritation }
\end{gathered}
\] \& 8.4
Skin
sensitist-
tion \&  \& 8.6
Sub-
chronic
mnd
chronic
toxicity

$*$
including
sub-
meate
toxieity \&  \& B.8
Develop-
mental

toxicity \& $$
\begin{gathered}
8.9 \\
\text { Muta- } \\
\text { geni- } \\
\text { city }
\end{gathered}
$$ \& 8.10

Repro-
ductive
toxi-
city \& 8.11
Toxicity
to
mquanic
vertebra-
tes not
included
in other

columns \& $$
\begin{aligned}
& 8.12 \\
& \text { Other }
\end{aligned}
$$ \& \[

$$
\begin{aligned}
& 8.13 \\
& \text { Total }
\end{aligned}
$$
\] <br>

\hline 8.a. Products/substances or devices for human medicine and dentistry and for veterinary medicine \& 95 \& 759 \& 1797 \& 67 \& 0 \& 0 \& $3040^{*}$ \& 0 \& 589 \& 593 \& 115 \& 0 \& 178 \& 7233 <br>
\hline 8.b. Products/substances used or intended to be used mainly in agriculture \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>

\hline | 8.c. $\quad \begin{array}{l}\text { Products/substances used or intended } \\ \text { to be used mainly in industry }\end{array}$ |
| :--- | :--- | \& 0 \& 0 \& 130 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 157 \& 0 \& 0 \& 0 \& 287 <br>

\hline 8.d. Products/substances used or intended to be used mainly in the household \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 8.e. Products/substances used or intended to be used mainly as cosmetics or toiletries \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 8.f. Products/substances used or intended to be used mainly as additives in food for human consumption \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 <br>
\hline 8.g. Products/substances used or intended to be used mainly as additives in food for animal consumption \& 600 \& 0 \& 0 \& 0 \& 0 \& 0 \& 157* \& 0 \& 340 \& 0 \& 8 \& 1680 \& 0 \& 2785 <br>
\hline 8.h. Potential or actual contaminents in the general environment which do not appear in other columns \& 0 \& 993 \& 76 \& 137 \& 1118 \& 0 \& $411^{\circ}$ \& 0 \& 0 \& 0 \& 0 \& 5000 \& 0 \& 7735 <br>
\hline 8.i. Other toxicological or safety evaluations \& 0 \& 0 \& 0 \& 0 \& 433 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 0 \& 433 <br>
\hline 8.j. TOTAL \& 695 \& 1752 \& 2003 \& 204 \& 1551 \& 0 \& $3608^{*}$ \& 0 \& 929 \& 750 \& 123 \& 6680 \& 178 \& 18473 <br>
\hline
\end{tabular}

## UNITED KINGDOM

## Comments made by United Kingdom authorities

The comments from Great Britain and from Northern Ireland appear below. Most of their conclusions are referring to procedures (the present report is based on the number of animals).

## Great Britain

Some 2.65 million animals were used for the first time in procedures started in 1996 (Table 1a). This was 7,800 more than in 1995, reflecting the overall slight rise in the number of procedures started.

## General

- 2.7 million scientific procedures were started in 1996 , slightly more ( 0.2 per cent) than in 1995 (figure 1).
- Commercial concerns carried out just under half of them (figure 4), down 2 per cent compared with 1995 (table 23).
- 4 in 5 procedures were carried out on mice or rats (figure 2), the same as in 1995 (table 20).
- Fundamental biological research, or applied studies in human medicine or dentistry, or veterinary medicine accounted for 2.0 million, or 75 per cent of procedures. The remaining procedures were carried out mainly for safety evaluation, and breeding of harmful mutant or genetically manipulated animals (table 1).
- 65 per cent of all procedures $(1,767,000)$ used no anaesthesia (tables 7 and 17 ), usually because the procedure was considered so minor that anaesthesia was inappropriate. This is the same proportion as in 1995 (table 22).
- 4,400 procedures involved non-human primates, a decrease of about 7 per cent from 1995.
- Five sixths of all primates on which procedures were carried out were obtained from within the UK and just over a quarter from the licensees' own establishments (table 2).
- The number of procedures involving genetically normal animals fell by 87,000 (4 per cent).
- Nearly 234,000 procedures ( 9 per cent) involved animals with a harmful genetic defect (table 3), over 7,000 more than in 1995.
- Over 300,000 procedures ( 11 per cent) involved genetically manipulated animals (table 3 ), about 86,000 more than in 1995.


## Studies other than toxicology or other safety or efficacy evaluation

- Just under three quarters of all procedures started in 1996 (just under 2 million) were in this category.

Of these:

- about 505,000 or 25 per cent were for the purpose of pharmaceutical research and development while a further quarter were almost equally divided between immunology and cancer research (table 5);
- just over 60 per cent of non-toxicology procedures used no anaesthesia (table 7);
- just over 40 per cent were for the purposes of production of biological materials or breeding of harmful mutant or genetically manipulated animals (table 8);


## Toxicology or other safety or efficacy evaluation

- Just over one quarter of all procedures started in $1996(720,000)$ investigated toxicity, or were for evaluating the safety or efficacy of products.

Of these:

- over 40 per cent used mice and about 35 per cent used rats (table 10);
- over 62 per cent were for evaluating the safety and efficacy of pharmaceutical products (table 10);
- 78 per cent were performed to comply with legislation or regulations in force (table 11);
- just over three quarters used no anaesthesia (table 17);
- 2,800 were for testing cosmetics (table 14), up 900 from 1995.


## Northern Ireland

The number of animals used for the first time was 13,342 . This is in comparison to 10,481 used in 1995 (Table 1a).

## Commentary

The main features of the statistics for 1996 were:
(a) The number of scientific procedures started was 15,291 , a rise of 2,681 on the previous year (Tables 1, 2 and 3).
(b) The number of animals used for the first time was 13,342 . This is in comparison to 10,481 used in 1995 (Table la).
(c) The species of animals involved in the largest number of procedures in 1996 were mouse ( 35 per cent), rat ( 21 per cent) and domestic fowl ( 12 per cent). Between 1995 and 1996 there was a fall in the number of procedures on rabbit (down 281) cattle (down 135) and fish (down 106). There was also a fall in pig (down 82), equids (down 47) and goat (down 3). Increases were recorded for mouse (up 2,880) and domestic fowl (up 128). There were no procedures carried out on primates or hamster (Table 1 and 3 ).
(d) Just under 10,400 procedures started in 1996 used animals acquired from designated establishments in Northern Ireland or from establishments within the United Kingdom. Only 23 procedures used animals from sources outside the European Union and 4,878 procedures used animals not listed in Schedule 2 of the Act (Table 2).
(e) In 1996171 (1 per cent) of procedures started involved animals with a harmful genetic defect, 29 less than in 1995. The animals concerned were rat (141) and mice (30). There were 2,255 mice and 16 rats involved in transgenic procedures. The majority of procedures started in 1996 (84 per cent) involved normal animals (Table 3).
(f) In 1996 3,216 procedures ( 28 per cent of the total) were concerned with the immune system; 2,134 ( 18 per cent) with the nervous system and 1,817 ( 16 per cent) were aimed at more than one body system. Some 1,490 procedures ( 13 per cent) were those in which the body system or systems affected were either not predictable or not relevant (Table 4).
(g) Most procedures ( 74 per cent) were so minor that the use of anaesthesia was not appropriate. About 26 per cent of procedures started in 1996 ( 7 per cent lower than in 1995) either used anaesthesia with recovery or were procedures in which the anaesthesia was terminal. Only 63 of these procedures, also used a neuromuscular blocking agent (Tables 7 and 16).
(h) Just over 1,900 ( 15 per cent) of the procedures started in 1996 used a technique identified on the code list to record the procedures as being of particular interest. The more common techniques involved interference with the special senses : sight, hearing, smell or taste, (576) and training stimuli (451) (Table 9).
(i) Of the 15,291 procedures started, only 19 per cent concerned toxicology studies (Tables 10, 11, 12 and 16). The number of animals used in such work was over 1,000 , with fish ( 50 per cent) being the largest numbers used (Table 10a).
(j) The 2,917 procedures involving toxicology were performed in order to comply with the provisions of one of the following Acts/Orders or equivalent overseas legislation: Medicines Act 1968, Health and Safety at Work (Northern Ireland) Order 1978, Agriculture (Poisonous Substances) Act (Northern Ireland) 1954, The Food Safety (Northern Ireland) Order 1991 or other legislation or regulations. Of these procedures 2,171 (74 per cent) were used for pharmaceutical safety (Table 11).
(k) In 1996, 50 per cent of the projects on which procedures were started were based at universities (including medical schools) and they accounted for 70 per cent of the procedures. Projects at government departments accounted for 43 per cent of the projects started, and 23 per cent of procedures. At commercial concerns projects accounted for 5 per cent of projects started and 7 per cent of procedures (Table 17).
(l) Returns were received in respect of 171 project licences in 1996, the same number as in 1995. Some project licence holders would have made two returns for 1996, one relating to the expiring licence and one to the successor licence. A total of 108 licences started procedures in 1996 and 63 ( 37 per cent) started no procedures (Table 17).
(m) The number of Personal Licencees authorised to carry out regulated procedures under the Act fell to 458, a reduction of 17 on 1995 (Table 19).

## Statistical data submitted

The statistical data of the United Kingdom have been presented in 2 annual reports; for Great Britain, the report has been provided by the Home Office and for Northern Ireland, the report has been provided by the Department of Health and Social Services.

The United Kingdom has a very comprehensive set of statistical tables. The following tables have been taken into account for the global compilation of the data in the first part of this report :

## Great Britain and Northern Ireland

Table 1a: Animals by species of animal and primary purpose of procedure (Number of animals)

Table 5a: Animals (non-toxicology) by species of animal and field of research (Number of animals)

Table 10a: Animals (toxicology) by species of animal and toxicological purpose (Number of animals)

Table 1a Animals by species of animal and primary purpose of the procedure

| Great Britain 1996 |  |  |  |  |  |  |  |  |  | of animals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species of animal |  |  |  | Primary pu | pose of the proce | dure |  |  |  | Total |
|  | Fundamental biological research | $\begin{array}{\|c\|} \hline \text { Applied studies } \\ \text {-human } \\ \text { medicine or } \\ \text { dentistry } \\ \hline \end{array}$ | Applied studies -veterinary medicine | Protection of man, animals or environment | Education | Training | Forensic enquiries | Direct diagnosis | Breeding |  |
| Mammal |  |  |  |  |  |  |  |  |  |  |
| Mouse | 494,096 | 569,042 | 39,829 | 26,991 | 2,533 | - | - | 14,241 | 349,658 | 1,496,390 |
| Rat | 211,309 | 325,774 | 4.638 | 101,299 | 1,390 | 1.665 | 8 | 14,241 | 37,027 | 1,496,390 |
| Guinea-pig | 10,084 | 62,217 | 4,176 | 26,244 | , 207 |  | . | 980 <br> 290 | 37,027 | 684,090 |
| Hamster | 5,845 | 3,031 | 797 | 112 | 82 | - | . | 31 | . | 10,898 |
| Gerbil | 4.193 | 3,129 | 15 |  | 4 | - | . |  |  | 7,341 |
| Other rodent | 2,066 | 174 |  | 1,306 | . | - |  | - | - | 3,546 |
| Rabbit | 9,744 | 12,208 | 1,721 | 7,448 | 185 | - | 34 | 3.729 | 28 | 35,097 |
| Cat | 900 | 254 | 261 | 31 | 22 | - |  | . | 41 | 1.509 |
| Dog |  |  |  |  |  |  |  |  | 41 | 1,509 |
| Beagle | 123 | 5,531 | 303 | 598 | - | - |  | - | . | 6.555 I |
| Greyound |  |  |  |  |  |  |  | - |  |  |
| Other including cross-bred dogs | 38 | 10 | 104 |  | - |  | - | - | 28 |  |
| Ferret | 794 | 1,394 | 2 |  | 20 |  | - | 34 | 28 | 180 |
| Other carnivore | 2,414 | 1,304 |  | - | 20 | - | - | 34 |  | 2,244 2,460 |
| Horse, donkey and cross-bred equids | 176 | 36 | 198 | - | 10 | - |  | 376 |  | 796 |
| Pig | 2,367 | 1.741 | 1,460 | 128 | 2 | . |  | 165 | 1,291 | 7.154 |
| Goat | 486 | 24 | 37 | 16 | . | - | - | 55 |  | 618 |
| Sheep | 7,925 | 2,999 | 3,242 |  | 17 | . | 2 | 2,869 |  | 17.054 |
| Catte | 1,387 | 28 | 2,644 | 32 | . | - |  | 924 |  | 5.023 |
| Deer | 248 |  | 2 | . | - |  |  |  |  | 250 |
| Camelid |  |  |  |  | - |  |  |  |  |  |
| Other ungulate | - | - | - |  | . | - |  | - |  |  |
| Primate |  |  |  |  |  |  |  |  |  |  |
| Prosimian | - | - | - | - | - |  |  |  |  |  |
| New world monkey |  |  |  |  |  |  |  |  |  |  |
| marmoset, tamarin | 353 | 977 | - | - | - | - | - | - | - |  |
| Squirrel, ow, spider monkey | 14 | 4 |  | . | - | . | . | . | - | 18 |
| Other new world monkey |  | . |  | - | : | . |  | - | . |  |

## Table 1a (Continued)

| Great Britain 1996 | Number of animals |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species of animal | Primary purpose of the procedure |  |  |  |  |  |  |  |  | Total |
|  | Fundamental biological research | Applied studies -human medicine or dentistry | Applied studies -veterinary medicine | Protection of man, animals or environment | Education | Training | Forensic enquiries | Direct diagnosis | Breeding |  |
| Old world monkey | - |  |  |  |  | - ----... |  |  |  |  |
| Macaque | 110 | 2,241 | - | 15 | - | - | - | 44 |  |  |
| Baboon | - | 28 | - | 15 | - | - | - | 44 | - | 2.410 28 |
| Other Old world monkey | - | 2 | . | . | - | - | - | - | - | 28 |
| Ape |  |  |  |  |  | - | - | - | - | - |
| Gibbon | - | - | - | - | - | - | - |  |  |  |
| Great ape | - | - | . | - | - | - | - | - | - | - |
| Other mammal | 650 | 106 | 6 | 51 | - | - | - | - | - | 813 |
| Bird |  |  | 0 | 51 |  | - |  | - | - | 813 |
| Domestic fowl (Gallus domesticus) | 32,205 | 964 | 55,222 | 932 | 223 | - | - | 4,141 | 551 |  |
| Turkey | 357 | . | 2,865 | 134 | 22 | - | - | 4,141 | 551 | 94,238 3,391 |
| Quail (Cotumix columix) | 64 | - | 229 | 24 | - | - | - | - | - | 3,391 |
| Quail (spp,other than Colurnix colurnix) | 334 | - | - | 2,987 | - | - | - | - | - | 3,321 |
| Other bird | 7.719 | - | 780 | 2.061 | - | - | - | 66 | - | 10,626 |
| Reptile |  |  |  |  |  |  |  | 66 | - | 10,626 |
| Any reptilian species | - | - | - | - | - | - | - | - | - |  |
| Amphibian |  |  |  |  |  |  |  | - |  |  |
| Any amphibian species | 10,148 | 68 | - | 164 | 1.923 | - | - | - |  |  |
| Fish |  |  |  | 164 | 1.923 | - | - | - | - | 12,303 |
| Any fish species | 59,263 | 78 | 22,227 | 45,752 | 13 | - | - | 3.707 |  |  |
| Cephalopod |  |  |  | 45,752 | 13 | - | - | 3.707 | 2,768 | 133,808 |
| Octopus vulgaris | - | - | - | - | - | - | - | - | - |  |
| Total | 865,412 | 992,058 | 140.758 | 216,325 | 6,631 | 1.665 | 52 | 31.733 | 391,392 | 2,646,026 |

Table 5a Animals (non-toxicology) by species of animal and field of research

| Grem Eritain 1998 |  |  |  |  |  |  |  |  |  |  |  | Number | A animals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species of animal |  |  |  |  |  |  | Field of reser |  |  |  |  |  |  |
| . | Analony | Physiology | Biochemistry | Psychology | Pathology | mmunology | Microbiology | Parasiology | Phamacology | Pharmacuutical R\&D | Therapeutics | Cinical mediche | Clinical surgery |
| Mammal |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mouse | 106,993 | 32.755 | 6,435 | 5,142 | 11,237 | 221,926 | 50.046 | 40.502 |  | 249343 |  |  |  |
| Hal | 28,395 | 60,949 | - 28.798 | 14,421 | 785 | 14.214 |  |  |  |  |  |  |  |
| Guinee-pig | 57 | 2.160 | 301 | 20 | 520 |  |  | . 295 | 45,230 | 179.530 | 778 | 3,134 | 3,035 |
| Hamsler | 952 | 1,968 | 655 | 257 |  |  | 1.07 | 935 | 4.460 | 39,564 | 485 | 124 | - |
| Gerbil | 119 | 247 | 28 | 757 | 40 | . | . | 1,621 | 850 | 3,639 | $\cdots$ | - |  |
| Owner rodent |  | 15 | - | 4 |  | 2 | 1.508 | 311 | . | 119 | . | . |  |
| Rabbil | 107 | 3,050 | 1,003 | 68 | 397 | 4.481 | 713 | 193 | 2.422 | 4,342 | 210 | 901 | 375 |
| Cat | 30 | 427 |  | - | 13 | 242 | 12 | 8 | 235 | 184 | 24 | 8 | . |
| Dog |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Beagle | - | 57 | 22 | - | - | 78 | - |  | 6 | 504 | - | 75 | 27 |
| Graythound | - |  | - | - | - | . | - |  | - | . | . | . |  |
| Other inctuding cross-bred dags | - |  | - | - | 8 | 13 | - | . | 25 | . | $\cdot \mid$ | 8 | 9 |
| Forret | 103 | 473 | - | 3 | . | 18 | 30 | - | 479 | 1,017 | . | - |  |
| Oner carmivore | 139 | 87 | - | - | - | . | 46 | 22 | . | . | - | - |  |
| Horse, donkey and cross-bred equids | 27 | 68 | 6 | - | 28 | 74 | 373 | 52 | 18 | 78 | - | 3 |  |
| Pig | 305 | 542 | 92 | 44 | 174 | 520 | 577 | 137 | 18 | 559 | 1,483 | 215 | 244 |
| Goat |  | 225 | 8 | - | 63 | 50 | 4 | 125 | 14 | 3 | - | . | 13 |
| Sheep | 547 | 2.883 | 252 | 159 | 162 | 1,828 | 1.573 | 1.579 | 150 | 2,955 | - | 562 | 126 |
| Cathe | 7 | 351 | 4 |  | 2 | 1.308 | 325 | 360 | 70 | 733 | 26 | . | 2 |
| Deer | - | 104 | - | - | . | - | 2 | - | - | . | . |  |  |
| Cannelid | - | - | - | - | - | - | - | - | . | - | - |  |  |
| Other ungulato | - | - | - | - | - | - | - | . | - | . |  |  |  |
| Primate |  |  |  |  |  |  |  |  |  |  |  |  |  |
| . Prosimian | - | - | - | - | - | - | - | - |  | - | - |  |  |
| New world monkey |  |  |  |  |  |  |  |  |  |  |  |  | - |
| marmosel, tamarin | 30 | 48 | 18 | 117 | 8 | 35 | 2 | . | 80 |  | - |  |  |
| Squirrol, owl, spider monkey | - | 9 | - | - | . | . | . | 5 | $\infty$ | 4 | . | 20 |  |

Table 5a (Continued)

| Great Britain 1996 |  |  |  |  |  |  |  |  |  |  |  |  | Numb | of minnts |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species of animal |  |  |  |  |  |  | Fiodd ol resea |  |  |  |  |  |  | Total |
|  | Dentistry | Genelics | Molocular biology | Cancer research | Nutrition | 2oology | Botany | Animal science | Ecology | Animal wellare | Other | Tobacco | Alcohol |  |
| Mammal |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mouse | 9 | 32,609 | 91,812 | 242,752 | 1,723 | 371 | 75 | 5.107 | 261 |  |  |  |  |  |
| Rat | 271 | 1,115 | 7,396 | 11,923 | 6,890 | 16 | 9 |  | . | 57 | 48,583 |  | 1,468 754 |  |
| Guinee-pig |  | - | . | 560 | 68 |  | - | . |  | 129 |  |  |  |  |
| Hamster | . | - | - | 112 | 110 | 161 | - | 2 | . |  | 6 |  |  | 52,887 |
| Gerbll | . | - | - |  |  |  | - |  |  |  |  |  |  | 8,563 |
| Other rodent |  | 96 | - |  |  | 207 |  |  | , |  | - |  |  | ,301 |
| Rabbin | 24 | 12 | 220 | 847 | 3 |  | 81 | 42 | 5 |  |  |  |  | 2.264 |
| Cal |  | 54 | - |  | 80 | - | - | - | 15 | 28 | 102 |  | - | 9.716 |
| Dog |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.317 |
| Baggle | - | - | - | 6 |  | - | - |  | - |  |  |  |  |  |
| Greyhound | - | - | - | . |  | - | - | - . | - | - |  |  | - | 175 |
| Other including cross-bred dogs | - | 28 | - |  | 89 | - | . | - |  |  |  |  | - | 180 |
| Ferrel | - | . | - |  |  | , | - | - | . |  |  |  | - | 180 |
| Other camivore | - | 1.308 | - | . |  | 552 | - | 18 | 288 |  | - |  | - | 2.123 |
| Horse, donkey and cross-bred equids | - | - | - |  | 15 | . | - | 1 | - | - |  |  | - | 2.460 |
| Ping | - | 311 | 50 | 56 | 151 | - | - | 48 | - | 206 | 44 |  | - | 741 |
| Goat | - | - | 1 |  | 50 | - | - | 16 | - | - | 4 |  |  | 5.776 |
| Sheep | - | 930 | - | - | 607 | - | - | 1,467 | 32 | 204 | 16 |  |  | 572 |
| Came | - | 202 | 40 | 58 | 552 | - | - | 144 | 6 | 09 | 6 |  |  | 16,032 |
| Deer | - | 69 | - | - | 40 | - | - | . | 9 | - |  |  |  | 4.279 |
| Comelit | - | - | - | - |  | - | - | . | - | 24 |  |  |  | 240 |
| Other ungudate | - | - | - | - | . | - | - | . | - | - | - |  |  |  |
| Primate |  |  |  |  |  |  |  |  |  | - |  |  |  |  |
| Prosimian | - | - | - | - | - | - | - | - | - | - | - |  |  |  |
| Now wordd monkey |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| marmosel, tamain | - | - | - | 8 | - | - | - | - | - | - | - |  | - |  |
| Squirrel, own, spidter monkey Other new woold monkey | - | - | - | - | - | - | - | . | . | - | - |  | - | 5980 |

Table 5a Animals (non-toxicology) by species of animal and field of research (Continued)

| Greal Brilain 1998 |  |  |  |  |  |  |  |  |  |  |  | Mumber | cramets |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species of minmal |  |  |  |  |  |  | Fiodd of resoar |  |  |  |  |  |  |
|  | Anatomy | Pryziology | Biochemistry | Psychology | Palthology | mmmunology | Microbiology | Parasitology | Phamacology | Phamacoutical R\&D | Therapeutics | Clinical medicine . | Clinical surgery |
| Old wordd monkey |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Macaque | 13 | 66 | - | 22 | - | 136 | 101 | - | - | - | - | 44 | - |
| Baboon |  |  | - | - | - | 28 | - | - | - | - | - | - | - |
| Other old world monkoy |  |  | - | - | - |  |  | - | - | - | - | - | - |
| Other mamman | 244 | 75 | - | 22 | - | 12 | - | 6 | - | - | - | - | - |
| Bivd |  |  |  | , |  |  |  |  |  |  |  |  |  |
| Domestic fown (Gallus domesticus) | 998 | 2,982 | 8,581 | 3,028 | 2.858 | 2,991 | 12,546 | 26,095 | 508 | 14.036 | - | 110 | - |
| Turkey |  | 79 |  |  |  | 65 | 590 | 420 | - | - | 594 | - | - |
| Ousil (Cotumix cotumix) | - |  | - | 40 | - | - | 74 | - | 24 | - | - | - | - |
| Ouall (spp.other than Columix cotumix) |  | 154 | - |  |  | - |  | - | - | - | - | - | - |
| Other bind | 20 | 699 | - | 550 | 260 | 27 | 492 | - | - | - | 65 | - | - |
| Preplile |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Any repplilian species | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Amphitian |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Any amphibian species | 2.769 | 2.652 | 456 | 326 | 120 | 131 | $\bullet$ | 355 | 47 | 70 | - | - | - |
| Fish |  |  |  |  |  |  |  |  |  |  |  |  |  |
| _Any fish species | 3,130 | 15.670 | 285 | 4.919 | 9,445 | 9,313 | 4,247 | 2.565 | - | 720 | 7,162 | - | - |
| Total | 144,905 | 128,793 | 47.024 | 29,899 | 33,120 | 259.038 | 76,568 | 79.915 | 78,340 | 500,388 | 32,437 | 10.562 | 4,328 |

Table 5a (Continued)

| Greal Britain 1996 |  |  |  |  |  |  |  |  |  | Number of arimals |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species of animal | Fiold of research |  |  |  |  |  |  |  |  |  |  |  |  | Total |
|  | - Dentistry | Genelics | Molecular biology | Cancer research | Nutrition | 200logy | Botary | Animal science | Ecology | Animal wellare | Other | Tobacco | Alcohol |  |
| Old world monkey |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Macaque | - |  | - | - | - |  | - | - | - | - | - | - | - | 382 |
| Babcon | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 |
| Other old world monkey | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Oneer mammal | - | - | 354 | - | - | 49 | - | - | 23 | - | - | - | - | 785 |
| Bind |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Domostic lowl (Galmus domesticus) | - | 1,304 | 24 | 165 | 4.603 | 253 | - | 151 | - | 856 | - | - | - | 82,089 |
| Turney | - | 9 | - | - | 230 | - | - | 100 | . | 84 | - | - | - | 2.171 |
| Ouail (Cotumix cotumb) | - |  | - | - |  | - | - | - | - | - | - | - | - | 138 |
| Ouail (spp,other than Cotumix cotumnix) |  |  | - | - |  | - | - | - | - | 180 | - | - | - | 334 |
| Onher bird | - | 470 |  |  |  | 3.000 |  |  | 1.396 | 1,201 | - | - | - | 8.180 |
| Peptie |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Any reptilian species | - | - | - | - |  | - | - | - | - | - | - | - | - | - |
| Amphibian |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Any amphibien species | - | 4 | 254 | 218 | - | 48 | - | - | 4.299 | - | - | - | - | 12,179 |
| Fish |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Any listh spectes | - | 1,477 | 10 | - | 8,313 | 1,796 | - | 35 | _8,634 | 474 | 7 | - | - | 78.202 |
| Total | 304 | 40,000 | 100.161 | 258.705 | 23.524 | 6.453 | 165 | 7.131 | 14.963 | 4.054 | 63.588 | - | 2.222 | 1.944,745 |

Table 10a Animals (toxicology) by species of animal and toxicological purpose

| Great Britain 1996 |  |  |  |  |  |  |  | ber of animals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species of animal |  |  | Tox | logy or other sa | etyleflicacy evalu | ation |  |  |
|  |  |  |  | General safety/e | licacy evaluation |  |  |  |
|  | Pollution | Agriculture | Industry | Household | Food addifitives | Other foodstuffis | Finished cosmetics | Cosmetics ingredients |
| Mammal |  |  |  |  |  |  |  |  |
| Mouse | 217 | 9.592 | 8.498 | 296 | 106 | 1,432 | - | - |
| Rat | 989 | 38.731 | 41,752 | 1,342 | 1.577 | 607 | 34 | 801 |
| Guinea-pig |  | 6.427 | 16,600 | 364 | 52 | . | 162 | 1.441 |
| Hamster | 6 |  | 40 | - | - | - | - | - |
| Gerbir | - | - | - | - | - | - | - |  |
| Other rodent | 884 |  | - | - | - | - | - | - |
| Rabbit |  | 2,631 | 4,358 | 42 | 38 | 4 | 24 | 172 |
| Cat | - | - | - | - | - | - | - | - |
| Dog |  |  |  |  |  |  |  |  |
| Beagle | - | 557 | 11 | 84 | 12 | - | - | - |
| Greyound | - | - | - | - | . | - | - |  |
| Other including cross-bred dogs | - | - | - | - | - | - | - |  |
| Ferret | - | - | - | - | - | - | - |  |
| Other camivore | - | - | - | - | - | - | - |  |
| Horse, donkey and cross-bred equids | - | - | - | - | - | - | - |  |
| Pig | - | 64 | - | - | - | - | - | - |
| Goat | - | 13 | - | - | - | - | - |  |
| Sheep | - | - | - | - | - | - | - |  |
| Catte | - | 32 | - | - | - | - | - | - |
| Deer | - | - - | - | - | - | - | - |  |
| Camelid | - | - | - | - | - | - | - | - |
| Other ungulate | - | - | - | - | - | - | - | - |
| Primate |  |  |  |  |  |  |  |  |
| Prosimian | - | - | - | - | - | - | - | - |
| New world monkey <br> marmoset, tamarin |  |  |  |  |  |  |  |  |
| marmoset, tamarin ${ }_{\text {Squirel, }}$ ow, spider monkey | - | - | - | - | - | - | - | - |
| Other new world monkey | - |  | . | - | . | . | . | . |

Table 10a (Continued)

| Great Britain 1996 |  |  |  |  |  |  |  |  |  | of animals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species of animal |  |  |  | Toxicology or | her salety/effic | evahuatio |  |  |  | Total |
|  | Pha | aceunical safe | ty/efficacy evalu |  |  |  | Other pupposes |  |  |  |
|  | Safety testing | Efficacy testing | Quality control | ADME and residue | Toxicology research | Tobacco salety | Medical device safely | Method development | Other |  |
| Mammal |  |  |  |  |  |  |  |  |  |  |
| Mouse | 50.727 | 118,674 | 54,836 | 6.610 | 15.6 |  |  |  |  |  |
| Rat | 91.125 | 29,094 | 5,529 | 16.690 | 12,968 |  | 1.602 524 | 16,093 1,561 | 11,951 6,901 | $\begin{aligned} & 296,248 \\ & 250,225 \end{aligned}$ |
| Guinea-pig | 6.153 | 8,688 | 7.465 | 119 | 498 |  | 1.793 | 334 | 235 | 50,331 |
| Hamster | 6 | 795 | 66 | 276 | 69 |  | 16 | 50 | 11 | 1.335 |
| Gerbil | - | . | - | . | . 40 |  | 16 | 50 | - | 1.335 40 |
| Other rodent | - |  | - | - | . |  | - | - | 398 | 1282 |
| Rabbit | 3,779 | 1,278 | 1,875 | 159 | 2 |  | 493 | 103 | 498 | 1,282 15,381 |
| Cat | 143 | 18 | - | 31 | - |  | 4 | 103 | 423 | 15,381 |
| Dog |  |  |  |  |  |  |  |  |  | 192 |
| Beagle | 4,070 | - | - | 561 | - |  | - | 20 |  |  |
| Greyound | - | - | - | 561 | - |  | - | 20 | 65 | 5,380 |
| Other including cross-bred dogs | - | - | - | - | - |  | - | - | - | - |
| Ferret | 115 | - | 6 | - | . |  | - | - | . | 121 |
| Other carnivore | . | - | . | - | - |  | . | - | - | 121 |
| Horse, donkey and cross-bred equids | 6 | - | - | 49 | - |  | . | - | - | 55 |
| Pig | 516 | 501 | - | 199 | 8 |  | 41 | 49 | - | + 378 |
| Goal | 6 | 24 | - | 3 | 0 |  | 41. | 49 |  | 1,378 |
| Sheep | 383 | 427 | 7 | 205 | . |  | . | - | - | 1002 |
| Cattle | 183 | 290 | 10 | 229 | - |  | - | - |  | 1,022 |
| Deer | 2 | - | . | - | - |  | - | - |  | 2 |
| Camelid | . | - | - | - | - |  |  | - |  | 2 |
| Other ungulate | - | - | . | - | - |  | - | - | - |  |
| Primate |  |  |  |  |  |  |  |  |  |  |
| Prosimian | - | - | - | - | - |  | - |  |  |  |
| New world monkey |  |  |  |  |  |  |  | - | - | - |
| marmoset, lamarin | 610 | - | - | 73 | - |  | - |  |  | 732 |
| Squirrel, ow, spider monkey | - | - | . | 73 | - |  | - | 13 | 36 | 732 |
| Other new world monkey | - |  | - |  | . |  | - | - | - |  |

Table 10a Animals (toxicology) by species of animal and toxicological purpose (Continued)


Table 10a (Continued)

| Great Britain 1996 |  |  |  |  |  |  |  |  |  | of animals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species of animal |  |  |  | Toxicology or | her safety/effic | evaluatio |  |  |  | Total |
|  | Phar | ceutical safet | y/efficacy evalu | ion |  |  | Other purposes |  |  |  |
|  | Safety testing | Efficacy testing | Quality control | ADME and residue | Toxicology research | Tobacco safely | Medical device salety | Method development | Other |  |
| Odd wordd monkey |  |  |  |  |  |  |  |  |  |  |
| Macaque | 1,864 | 26 | - | 133 | - |  | - | 2 | 3 | 2.028 |
| Baboon | - | - | - | - | - |  | - | - | - | - |
| Other Old world monkey | - | - | - | - | - |  | - | - | - | - |
| Other mammal | - | - | - | - | - |  | - | - | 4 | 28 |
| Bird |  |  |  |  |  |  |  |  |  |  |
| Domestic fowl (Gallus domesticus) | 2,285 | 7,907 | 499 | 392 | 24 |  | - | - | 274 | 12,149 |
| Turkey | 118 | 1,040 | - | 62 | - |  | - | - |  | 1,220 |
| Quail (Cotumix coturnix) | 155 |  | - | - | - |  | - |  | - | 179 |
| Quail (spp,other than Cotumix cotumix) |  | - | - | - | - |  | - | - | - | 2,987 |
| Other bird | 144 | 639 | - | - | - |  | - | 44 | - | 2.446 |
| Reptile |  |  |  |  |  |  |  |  |  |  |
| Any reptilian species | - | - | - | - | - |  | - | - | - | - |
| Amphibian |  |  |  |  |  |  |  |  |  |  |
| Any amphibian species | - | - | - | - | - |  | - | - | - | 124 |
| Fish |  |  |  |  |  |  |  |  |  |  |
| Any fish species | 838 | 6,220 | - | - | 980 |  | - - | 664 | 1,325 | 55,606 |
| Total | 163,228 | 175,621 | 70,293 | 25,791 | 30,203 |  | 4,469 | 18,933 | 21,626 | 701,281 |

## TABLE 1a Animals by species and primary purpose of the procedure

Northern Ireland 1996

| Number of animals |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Species | Fundamental biological research | Applied studies human medicine or dentistry | Applied studies veterinary medicine | Protection of man, animals or environment | Education | Forensic | Direct diagnosis | Breeding | Total |
| Mouse | 2447 | 160 | 274 | 110 | 0 | 0 | 98 | 2256 | 5345 |
| Rat | 2829 | 178 | 22 | 76 | 11 | 0 | 0 | 117 | 3233 |
| Guinea-Pig | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| Hamster | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gerbil | 158 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 308 |
| Other rodent | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| Rabbit | 85 | 9 | 44 | 0 | 14 | 0 | 42 | 0 | 194 |
| Dog - Beagle | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 12 |
| Dog - Greyhound | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dog - Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other carnivore | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Horse, donkey etc | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| Pig | 216 | 0 | 150 | 0 | 0 | 0 | 10 | 0 | 376 |
| Goat | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 |
| Sheep | 202 | 0 | 255 | 0 | 0 | 0 | 13 | 0 | 470 |
| Catte | 230 | 0 | 388 | 0 | 0 | 14 | 27 | 0 | 659 |
| Other mammal | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Domestic fowl | 702 | 0 | 793 | 0 | 0 | 0 | 277 | 0 | 1772 |
| Turkey | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 26 |
| Amphibian | 202 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 202 |
| Fish | 81 | 0 | 0 | 530 | 0 | 0 | 0 | 0 | 611 |
| TOTAL | 7273 | 347 | 2094 | 716 | 25 | 14 | 500 | 2373 | 13342 |

## TABLE 5a Animals (non-toxicology) by species of animal and field of research

| Northern Ireland 1996 |  |  |  |  |  |  |  |  |  |  | Number of animals |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Field of Research |  |  |  |  |  |  |  |  |  |  |  |
| Species | Anatomy | Physiology | Biochemistry | Psychology | Pathology | Immunology | Microbiology | Parasitology | Phanmacology | Pharmaceutical R\&D | Clinical medicine | Clinical surgery |
| Mouse | 0 | 171 | $\cdots 100$ | 115 | 562 | 60 | 378 | 78 | 0 | 21 | 121 | 0 |
| Rat | 249 | 739 | 42 | 953 | 272 | 49 | 0 | 154 | 282 | 204 | 117 | 24 |
| Guinea-Pig | 4 | 33 | 0 | 0 | 0 | 16 | 2 | 0 | 0 | 0 | 0 | 0 |
| Hamster | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gerbil | 0 | 0 | 0 | 158 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 0 |
| Other rodent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rabbit | 0 | 10 | 15 | 0 | 0 | 37 | 29 | 0 | 46 | 0 | 0 | 0 |
| Dog - Beagle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dog - Greyhound | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dog - Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oher camivore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Horse, donkey etc | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pig | 0 | 59 | 0 | 8 | 0 | 7 | 57 | 0 | 35 | 0 | 0 | 0 |
| Goat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sheep | 0 | 0 | 29 | 96 | 0 | 0 | 5 | 172 | 0 | 0 | 0 | 0 |
| Cattle | 0 | 0 | 15 | 0 | 22 | 4 | 45 | 145 | 48 | 0 | 0 | 0 |
| Other mammal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Domestic fowl | 0 | 0 | 4 | 250 | 222 | 0 | 708 | 6 | 0 | 0 | 0 | 0 |
| Turkey | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 |
| Amphibian | 0 | 0 | 0 | 202 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fish | 0 | 0 | 0 | 81 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 253 | 1012 | 205 | 1863 | 1078 | 173 | 1250 | 705 | 411 | 225 | 238 | 24 |

TABLE 5a Animals (non-toxicology) by species of animal and field of research (Continued)

| Northern Ireland 1996 |  |  |  |  |  |  |  |  |  |  | of animals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Field of Research |  |  |  |  |  |  |  |  |  |  |
| Species | Dentistry | Genetics | Molecular biology | Cancer research | Nutrition | Zoology | Animal science | Ecology | Animal welfare | Oher | Total |
| Mouse | 0 | 104 | 36 | 3417 | 0 | 0 | 72 | 0 | 0 | 0 | 5235 |
| Rat | 35 | 0 | 0 | 0 | 15 | 0 | 22 | 0 | 0 | 0 | 3157 |
| Guinea-Pig | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| Hamster | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gerbil | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 308 |
| Other rodent | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 | 43 |
| Rabbit | 0 | 0 | 0 | 0 | 12 | 0 | 5 | 0 | 0 | 33 | 187 |
| Dog - Beagle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dog - Greyhound | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dog - Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oher camivore | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 20 |
| Horse, donkey etc | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pig | 0 | 10 | 0 | 0 | 86 | 0 | 35 | 0 | 29 | 0 | 326 |
| Goat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| Sheep | 0 | 0 | 0 | 0 | 54 | 0 | 24 | 0 | 0 | 7 | 387 |
| Cattle | 0 | 0 | 0 | 0 | 117 | 0 | 74 | 0 | 0 | 0 | 470 |
| Other manmmal | 0 | 0 | 0 | 0 | 0. | 0 | 0 | 3 | 0 | 0 | 3 |
| Donnestic fowl | 0 | 0 | 94 | 0 | 348 | 0 | 123 | 0 | 0 | 17 | 1772 |
| Turkcy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Amphibian | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 202 |
| Fish | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 |
| TOTAL | 35 | 114 | 130 | 3417 | 632 | 43 | 355 | 23 | 29 | 64 | 12279 |

## TABLE 10a Animals (toxicology) by species of animal and toxicological parpose

| Northem Ireland 1996 |  |  |  |  |  | Number of animals |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Toxicology or other safety/efficacy evaluation |  |  |  |  | Total |
| Species | Agriculture | Safety testing | Efficacy testing | ADME \& residue | Other |  |
| Mouse | 0 | 0 | 0 | 0 | 110 | 110 |
| Rat | 0 | 0 | 0 | 0 | 76 | 76 |
| Guinea-pig | 0 | 0 | 0 | 0 | 0 | 0 |
| Hamster | 0 | 0 | 0 | 0 | 0 | 0 |
| Gerbil | 0 | 0 | 0 | 0 | 0 | 0 |
| Other rodent | 0 | 0 | 0 | 0 | 0 | 0 |
| Rabbit | 0 | 7 | 0 | 0 | 0 | 7 |
| Dog - Beagle | 0 | 0 | 0 | 12 | 0 | 12 |
| Dog - Greyhound | 0 | 0 | 0 | 0 | 0 | 0 |
| Dog - Other | 0 | 0 | 0 | 0 | 0 | 0 |
| Oher carnivore | 0 | 0 | 0 | 0 | 0 | 0 |
| Horse, denkey elc | 0 | 6 | 0 | 0 | 0 | 6 |
| Pig | 0 | 0 | 0 | 50 | 0 | 50 |
| Goat | 0 | 0 | 0 | 0 | 0 | 0 |
| Sheep | 30 | 0 | 0 | 53 | 0 | 83 |
| Catule | 0 | 29 | 42 | 118 | 0 | 189 |
| Other mammal | 0 | 0 | 0 | 0 | 0 | 0 |
| Domestic fowl | 0 | 0 | 0 | 0 | 0 | 0 |
| Turkey | 0 | 0 | 0 | 0 | 0 | 0 |
| Amphibian | 0 | 0 | 0 | 0 | 0 | 0 |
| Fish | 530 | 0 | 0 | 0 | 0 | 530 |
| TOTAL | 560 | 42 | 42 | 233 | 186 | 1063 |


[^0]:    O.J. Nr L358, 18.12.1986, p. 1
    ${ }^{2}$ see also section 2.1 p. 4

[^1]:    see page 68 , paragraph 6
    O.J. Nr C331, 23.12.86, p. 2
    including 1997 data from France

[^2]:    6 see page 68 , paragraph 6

[^3]:    7 Kind : covers not only species but groups

[^4]:    - Including animals used for other purposes (quality control, test of pyrogens and production of antibodies).

[^5]:    * Including apes, prosimians and other simians

[^6]:    Remarks : \#-1500 used for obtaining antibodies; * embryonated eggs

