

MEMBER STATE NARRATIVE 2020

1. General information on any changes in trends observed since the previous reporting period.

Compared to 2019 (493982 uses), there is a decrease of 11,48% in the number of uses in 2020 (437275 uses). We can assume that the observed decrease is, at least partially, caused by the measures taken because of the Covid19 pandemic in 2020.

Number of use in 2018	Number of use in 2019	Number of use in 2020
556271	493982	437275

Since 2015, the number of re-use continues to decline. Compared to 2019 there is a decrease of 23,46% and even a decrease of 31,69% compared to the numbers of 2018.

Re-Use	Number of use in 2018	Number of use in 2019	Number of use in 2020
No	551601	489814	434085
Yes	4670	4168	3190
Total uses	556271	493982	437275

On the species grouping level, we observe a decrease in mammals, fish, reptiles and amphibians and a slight increase in the use of birds.

Species	Number of use in 2018	Number of use in 2019	Number of use in 2020
Mammals	454576	401065	362087
Birds	45412	41703	45946
Fish	54843	49807	28126
Amphibians	1116	1106	1011
Reptiles	324	301	105
Cephalopods	0	0	0
Total uses	556271	493982	437275

Within the mammals category we notice that the increasing trend in the use of mice has come to an end in 2019. In 2020 the use of mice dropped (decrease of 27,80% compared to 2018 and 15,76% compared to 2019).

There is a noteworthy increase in procedures on hamsters, rabbits and cattle.

The number of tests on hamsters increased from 886 in 2019 to 2985 in 2020 (+236,91%). This is largely due to research being conducted to develop a vaccine and medication against the SARS-CoV-2 virus. Hamsters were used in this type of research because the species is susceptible to corona infections.

The number of tests on rabbits increased from 63.094 in 2019 to 70.761 in 2020 (+12,15%). This increase is mainly due to a specific animal welfare study investigating group housing in rabbit farming.

The number of tests on cattle increased from 1420 in 2019 to 2329 in 2020 (+64,01%). Within the total number of uses of cattle in 2020, almost 75% of the uses can be explained by one specific project in which the genetic diversity of old cattle breeds was mapped by taking a small ear biopsy of a large number of farm animals.

Animal Species	Number of use in 2018	Number of use in 2019	Number of use in 2020
Mice	348937	299038	251913
Hamsters	772	886	2985
Rabbits	61575	63094	70761
Cattle	850	1420	2329

In the birds category, there is an increase for domestic fowl compared to 2019 (+16,49%). This is due to the increasing number of floorpen studies that are mainly performed in the context of the registration or re-registration of coccidiostats. The use of other birds decreased (-24,65%).

Animal Species	Number of use in 2018	Number of use in 2019	Number of use in 2020
Domestic fowl	39203	35292	41115
Other birds	6209	6411	4831

In the fish category, there was a significant decrease in the use of zebra fish (-41,7%) and other fish (-50,22%) in 2020 in comparison with 2019.

The decrease in the use of zebrafish was due on the one hand to the postponement of projects due to the corona measures, and on the other hand because several large-scale projects, in which zebrafish larvae were used for compound screening, ended in the previous year. The decrease observed in the use of other fish was mainly due to the end of 2 projects involving capers and eels in 2019.

Animal Species	Number of use in 2018	Number of use in 2019	Number of use in 2020
Zebra fish	25904	39115	22804
Other Fish	28939	10692	5322

2. Information on significant increase or decrease in used animals in any of the specific areas and analysis of the reasons thereof.

Purpose Category	Number of use in 2018	Number of use in 2019	Number of use in 2020
Basic Research	251704	222946	168821
Translational and applied research	121645	130724	120505
Regulatory use and Routine production	140896	115267	127262
Protection of the natural environment in the interests of the health or welfare of human beings or animals	359	798	743
Preservation of species	5598	243	371
Higher education or training for the acquisition, maintenance or improvement of vocational skills	7442	6287	3827
Forensic enquiries	0	0	0
Maintenance of colonies of established genetically altered animals, not used in other procedures	28627	17717	15746
Non-EU Purpose	0	0	0
Total uses	556271	493982	437275

Between 2019 and 2020, Basic Research and Higher education or training diminished by 24,28% and 39,13% respectively. The observed decreases are, at least partially, caused by the measures taken because of the Covid19 pandemic in 2020.

The number of procedures concerning Regulatory use and Routine production increased in 2020 by 10,40%. This is mostly due to an increasing number of studies that are being done for the registration or re-registration of coccidiostats and similar products. In these studies, according to the EFSA guidelines and sample size calculations, sufficient repetitions must be done to demonstrate the statistical impact of the product on zootechnical parameters, so it concerns large studies (~1000 animals/trial).

3. Information on any changes in trends in actual severities and analysis of the reasons thereof.

Severity	Number of use in 2018	% in 2018	Number of use in 2019	% in 2019	Number of use in 2020	% in 2020
Non-recovery	20565	3,70%	14074	2,85%	9464	2,16%
Mild	311660	56,03%	284376	57,57%	241487	55,23%
Moderate	154633	27,80%	131963	26,71%	139284	31,85%
Severe	69413	12,48%	63569	12,87%	47040	10,76%
Total uses	556271	100,00%	493982	100,00%	437275	100,00%

Within the actual severities classification we note a decrease in the category severe. This is probably due to a decrease in Basic Research in the domain of Oncology.

4. Particular efforts to promote the principle of replacement, reduction and refinement and its impacts on statistics if any.

Continuation of the RE-Place project (creation of a database that brings together expertise on alternative methods for animal testing) and funding of several specific 3R research projects.

5. Further breakdown on the use of "other" categories if a significant proportion of animal use is reported under this category.

1. Other fish

18,92% of the fishes are reported under the "other" category.

Taking into account the categories of fish for which at least 5 uses have been registered, the other fishes are mostly Cyprinidae (32%) and Salmonidae (21%), followed by Anguillidae (19%), Nothobranchiidae (14%) and Pleuronectidae (4%).

Other fish	Number of uses
<i>Cyprinus carpio</i>	1719
<i>Oncorhynchus mykiss</i>	1135
<i>Anguilla anguilla</i>	1029
<i>Nothobranchius furzeri</i>	749
<i>Pleuronectes platessa</i>	225
<i>Lota lota</i>	160
<i>Kryptolébias mormoratus</i>	68
<i>Psetta maxima</i>	38
<i>Dicentrarchus labrax</i>	34
<i>Pseudotropheus saulosi</i>	26
<i>Alosa falax</i>	19
<i>Diancistrus fusca</i>	17
<i>Carrassius auratus</i>	11
<i>Synodontis grandiope</i>	11
<i>Cichlidae</i>	10
<i>Pygocentrus nattereri</i>	10
<i>Haplochromis sp. tomato</i>	9
<i>Myloplus schomburgkii</i>	6
<i>Piaractus brachypomus</i>	5
<i>Pygopristis denticulata</i>	5
<i>Clarias geriepinus</i>	4
<i>Synodontis soloni</i>	4
<i>Metynnis hypsauchen</i>	3
<i>Myloplus rubripinnis</i>	3
<i>Serrasalmus maculatus</i>	3
<i>Synodontis ilebrevis</i>	3
<i>Synodontis nigriventris</i>	3
<i>Maylandia zebra</i>	2
<i>Pygocentrus piraya</i>	2
<i>Serrasalmus elongatus</i>	2
<i>Catopristion mento</i>	1
<i>Colossoma macropomum</i>	1
<i>Methynnis lippincottianus</i>	1
<i>Microsynodontis batesi</i>	1
<i>Pygocentrus cariba</i>	1
<i>Serrasalmus manuela</i>	1
<i>Synodontis victoriae</i>	1

2. Other amphibians

In 2020, 5,34% of the amphibians are reported under the “other” category.

They are Ranidae (*Lithobates catesbeianus*) (55,5% of other amphibians), and Pleurodelinae (in order of importance: *Triturus helveticus* (40,7%) and *Triturus alpestris* (3,7%).

Other amphibians	Number of uses
<i>Lithobates catesbeianus</i>	30
<i>Triturus helveticus</i>	22
<i>Triturus alpestris</i>	2

3. Other birds

10,51% of the birds are reported under the “other” category.

They are mostly Phasianidae (*Meleagris gallopavo*, *Perdix perdix*, *Coturnix coturnix* and *Coturnix japonica*) (86% of other birds). The other birds are members of Laridae (*Larus fuscus*) (3%), Paridae (*Parus major*), (3%), Anatidae (3%), Numididae (2%), Fringillidae (*Serinus canaria*) (1%), Zosteropidae (*Zosterops kikuyuensis*) (<1%), Psittaculidae (*Melopsittacus undulatus*) (<1%) Estrildidae (*Taeniopygia guttata*) (<1%), and Sturnidae (*Sturnus vulgaris*) (<1%).

Other birds	Number of uses
<i>Meleagris gallopavo</i>	2825
<i>Perdix perdix</i>	1037
<i>Coturnix coturnix</i>	170
<i>Larus fuscus</i>	162
<i>Parus major</i>	145
Anatidae	144
<i>Coturnix japonica</i>	139
Numididae	95
<i>Serinus canaria</i>	54
<i>Zosterops kikuyuensis</i>	25
<i>Melopsittacus undulatus</i>	24
<i>Taeniopygia guttata</i>	9
<i>Sturnus vulgaris</i>	2

6. Details on cases where the 'severe' classification is exceeded, whether pre-authorised or not, covering the species, numbers, whether prior exemption was authorised, the details of the use and the reasons why 'severe' classification was exceeded.

As in previous years, there were no cases in which the ‘severe’ classification was exceeded.