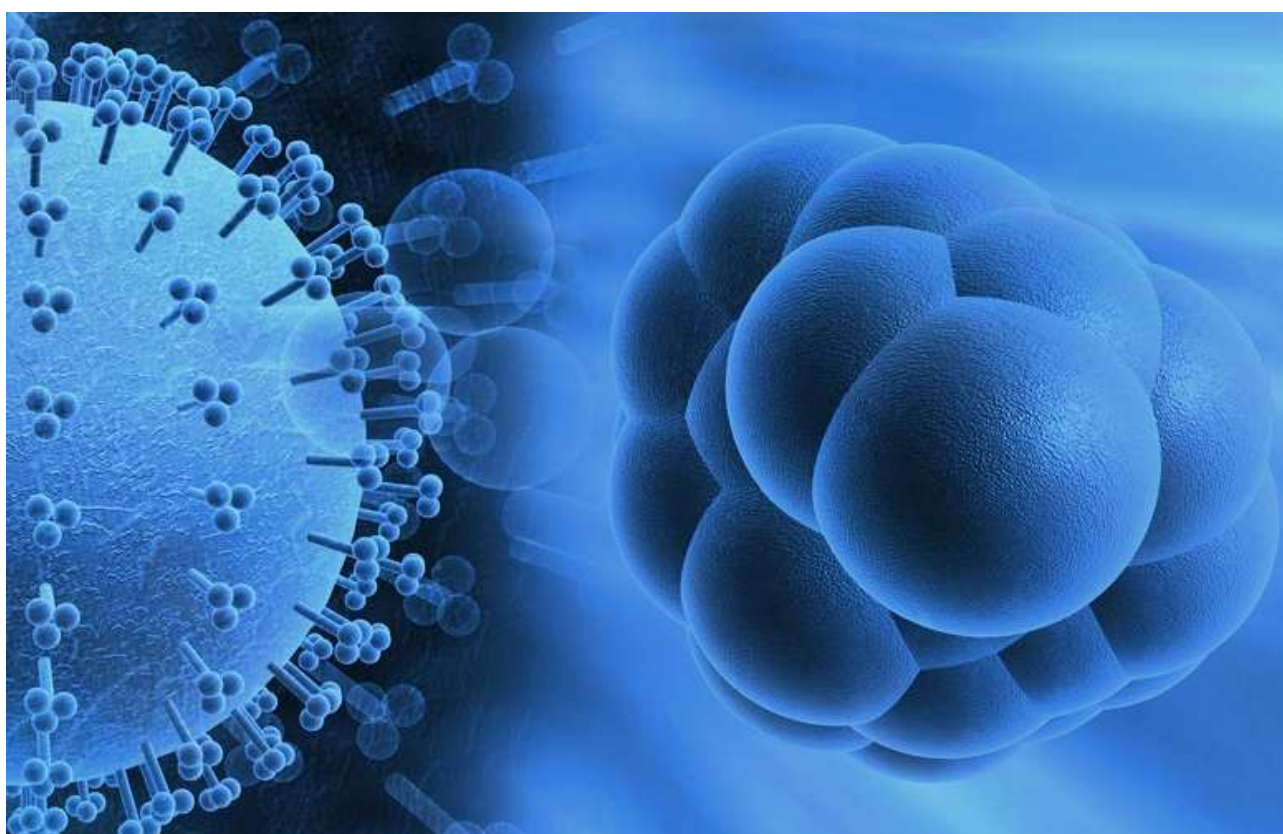


Statistics of animal use in research and teaching, Victoria

1 January 2014 to 31 December 2014

Report number 32



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Introduction

The Secretary of the Department of Economic Development, Jobs, Transport & Resources receives annual summary data from all institutions licensed under the *Prevention of Cruelty to Animals Act 1986* to use animals in research and teaching in Victoria. For each year of a project using animals, an 'Animal Use Return' form must be submitted in accordance with Regulation 100 of the *Prevention of Cruelty to Animals Regulations 2008*. The *Statistics of animal use in research and teaching Victoria* (report number 32) was compiled from the returns to provide an overview of the animals used in Victoria for 1 January to 31 December 2014. Each project involving animal use must be approved by an Animal Ethics Committee.

Tables 1–12 present data on animals used in scientific procedures. Table 13 presents data on 'specified animals' that were produced for scientific procedures but not used for such procedures. A specified animal is a guinea pig, or a rat, mouse or rabbit that is not bred in its native habitat, or a non-human primate. Their production must be licensed under Part 3 of the Act.

Further information on the data collected for this report may be found in the 2014 return guidelines, available at www.agriculture.vic.gov.au/ART.

Table 1: Number of animals used, by type of animal and project purpose, 2014

Animal Type	Project purpose					Total
	Animal management/production	Educational	Environmental	Human/animal biology	Human/animal health/welfare	
Amphibians	380	782	1225	2166	5	4558
Birds (exotic captive)				20		20
Birds (exotic wild)		10	111	183		304
Birds (native captive)	185	82	492	142	25	926
Birds (native wild)	9	804	17 408	1403	1740	21 364
Birds, other		375		18	120	513
Cats (non-wild)		189		21	264	474
Cats (wild)		5	33			38
Cattle (domestic)	4331	4005	400	171	3083	11 990
Cephalopods	78	6	2	37		123
Crustaceans	15 831	4006	2028	450		22 315
Dasyurids	6	157	472	4		639
Dogs (non-wild)	154	922		293	752	2121
Dogs, foxes (wild)		15	46		6	67
Domestic mammals, other		112			4	116
Exotic feral mammals, other			3			3
Exotic zoo mammals	1				8	9
Ferrets (lab)				8	1248	1256
Fish	29 800	2151	97013	41 264	8895	179 123
Goats (domestic)	4	3			341	348
Goats (wild)				3		3
Guinea pigs (lab)	10	360		452	4338	5160
Hares (wild)			2			2
Horses (domestic)	12	296		20	534	862
Koalas		3	30	15	1	49
Laboratory mammals, other				134	421	555
Lizards	17	91	719	467	34	1328
Macaques		18		48	21	87
Macropods	16	116	4333	718		5183
Marmosets				56		56

Animal Type	Project purpose					Total
	Animal management/production	Educational	Environmental	Human/animal biology	Human/animal health/welfare	
Mice (lab)	7095	10 612		301 600	114 955	434 262
Mice (wild)		47	184			231
Monotremes		4	104	8	32	148
Native mammals, other	18	58	2733	251		3060
Native rats, mice		166	2387	16	18	2587
Pigs (domestic)	484	143		93	2603	3323
Pigs (wild)			5			5
Possums, gliders	140	152	1632	23	9	1956
Poultry	457	449	429	886	95 413	97 634
Rabbits (lab)	15	207	12	586	629	1449
Rabbits (wild)	60		7			67
Rats (lab)		1859		17 751	7056	26 666
Rats (wild)		58	52			110
Reptiles, other		11	58	8		77
Seals, sealions			1597		9	1606
Sheep (domestic)	27 379	38 672		2661	8271	76 983
Snakes		6	37			43
Turtles, tortoises		3	93	9	8	113
Whales, dolphins		35	100			135
Wombats		2	3			5
Total	86 482	66 992	133 750	371 985	250 843	910 052

Table 2: Number of animals used, by type of animal and animal source, 2014

Animal Type	Animal source										Total
	Specified animal supplier	Other specified animal source	Animals in their natural habitat	Animals removed from natural habitat	Colony/zoo	Commercial supplier	Own derivation	Private donation	Privately owned animals on a farm	Other	
Amphibians			1331	342	281	1283	1150			171	4558
Birds (exotic captive)								20			20
Birds (exotic wild)			121	183							304
Birds (native captive)					229	85	516			96	926
Birds (native wild)			21 203	64						97	21 364
Birds, other			374			129	9			1	513
Cats (non-wild)						2	152		23	297	474
Cats (wild)			25			13					38
Cattle (domestic)						371	1626	20	9786	187	11 990
Cephalopods			42	81							123
Crustaceans			3641	3102		9046	6526				22 315
Dasyurids			629		10						639
Dogs (non-wild)						52	352	102	71	1544	2121
Dogs, foxes (wild)			53		14						67
Domestic mammals, other						59	28			29	116
Exotic feral mammals, other			3								3
Exotic zoo mammals					9						9
Ferrets (lab)						1256					1256
Fish			97 865	34 634	22	6718	39 811	3		70	179 123
Goats (domestic)						4			341	3	348
Goats (wild)						3					3
Guinea pigs (lab)	5150	10									5160
Hares (wild)			2								2
Horses (domestic)						213	237	6	266	140	862
Koalas			49								49
Laboratory mammals, other						3	534			18	555
Lizards			897	239	37	10	139			6	1328
Macaques	47	40									87

Animal Type	Animal source										Total
	Specified animal supplier	Other specified animal source	Animals in their natural habitat	Animals removed from natural habitat	Colony/zoo	Commercial supplier	Own derivation	Private donation	Privately owned animals on a farm	Other	
Macropods			4574	609							5183
Marmosets	56										56
Mice (lab)	428 056	6206									434 262
Mice (wild)			231								231
Monotremes			140		8						148
Native mammals, other			3036	6	18						3060
Native rats, mice			2569	18							2587
Pigs (domestic)						2689	197		437		3323
Pigs (wild)			5								5
Possums, gliders			1848	7	101						1956
Poultry						26 062	2930		68 478	164	97 634
Rabbits (lab)	1428	21									1449
Rabbits (wild)			67								67
Rats (lab)	26 615	51									26 666
Rats (wild)			110								110
Reptiles, other			67			10					77
Seals, sealions			1602		4						1606
Sheep (domestic)						2141	8438	52	66 245	107	76 983
Snakes			38			5					43
Turtles, tortoises			100	2	8	3					113
Whales, dolphins			135								135
Wombats			5								5
Total	461 352	6328	140 762	39 287	741	50 157	62 645	203	145 647	2930	910 052

Table 3: Number of animals used, by type of animal and procedures, 2014

Animal Type	Procedure type															Total
	Aversive stimuli	Central nervous system	Genetic modification	Immunomodulatory methods	Infection induction	Ionising radiation	Long term attachment/insertion	Monoclonal antibody production	Neoplasia	Neuromuscular block, electro-immobilisation	Other disease	Polyclonal antibody production	Skin irritancy	Toxicity	Other procedure	
Amphibians			288	400											3870	4558
Birds (exotic captive)							20									20
Birds (exotic wild)							100								204	304
Birds (native captive)	43														883	926
Birds (native wild)							2502								18 862	21 364
Birds, other					14										499	513
Cats (non-wild)		2		84	5		44			2	5			10	322	474
Cats (wild)							3							13	22	38
Cattle (domestic)		20		1215	90		171				9	11		32	10 442	11 990
Cephalopods															123	123
Crustaceans							3011								19 304	22 315
Dasyurids							6								633	639
Dogs (non-wild)	115			58	3									64	1881	2121
Dogs, foxes (wild)							12								55	67
Domestic mammals, other															116	116
Exotic feral mammals, other															3	3
Exotic zoo mammals							8								1	9
Ferrets (lab)				27	1176							41			12	1256
Fish	802	200	20 332		106		1102		30		4801			2122	149 628	179 123
Goats (domestic)															348	348
Goats (wild)												3				3
Guinea pigs (lab)		11	39	456	578		134				138	7		263	3534	5160
Hares (wild)															2	2
Horses (domestic)				101	6	36						154		32	533	862
Koalas							44								5	49
Laboratory mammals, other		101					12			21	392				29	555
Lizards	34						3								1291	1328
Macaques					20		4			1					62	87

Animal Type	Procedure type														Total	
	Aversive stimuli	Central nervous system	Genetic modification	Immunomodulatory methods	Infection induction	Ionising radiation	Long term attachment/insertion	Monoclonal antibody production	Neoplasia	Neuromuscular block, electro-immobilisation	Other disease	Polyclonal antibody production	Skin irritancy	Toxicity		Other procedure
Macropods	13						115								5055	5183
Marmosets		47													9	56
Mice (lab)	2602	6410	76 521	20 185	48 385	11 700	2385	679	45 307		52 894	1010	130	710	165 344	434 262
Mice (wild)															231	231
Monotremes							55								93	148
Native mammals, other							259								2801	3060
Native rats, mice															2587	2587
Pigs (domestic)	216		57	142	987		12							60	1849	3323
Pigs (wild)							5									5
Possums, gliders							140								1816	1956
Poultry	34 000		32	10	15 386							80			48 126	97 634
Rabbits (lab)				518	10		18				399	252	11		241	1449
Rabbits (wild)															67	67
Rats (lab)	920	1315	536	2	231		1905	55	150		6002			265	15 285	26 666
Rats (wild)															110	110
Reptiles, other															77	77
Seals, sealions							20								1586	1606
Sheep (domestic)		31	7	397	8		519				430	35		124	75 432	76 983
Snakes															43	43
Turtles, tortoises							55								58	113
Whales, dolphins															135	135
Wombats							2								3	5
Total	38 745	8137	97 812	23 595	67 005	11 736	12 666	734	45 487	24	65 070	1593	141	3695	53 3612	910 052

Table 4: Number of animals used, by type of animal and impact of procedure, 2014

Animal Type	Procedure impact								Total
	Animal unconscious without recovery	Observational study, minor interference	Minor intervention, no anaesthesia	Minor operative procedure with recovery	Minor physiological challenge	Surgery with recovery	Major physiological challenge	Death as an end point	
Amphibians	959	171	2057	47	348	976			4558
Birds (exotic captive)						20			20
Birds (exotic wild)		21	138		145				304
Birds (native captive)		689	70	82	85				926
Birds (native wild)	5	14 597	6725	22	7	8			21 364
Birds, other	7	392	100				14		513
Cats (non-wild)	24	218	108	14		50	60		474
Cats (wild)		5	17	3			8	5	38
Cattle (domestic)		5238	5290		1371	41	50		11 990
Cephalopods	39		84						123
Crustaceans	5	107	12 899	9301	3				22 315
Dasyurids		231	404	4					639
Dogs (non-wild)	127	697	1204	44		49			2121
Dogs, foxes (wild)		40	3	24					67
Domestic mammals, other		84	32						116
Exotic feral mammals, other		3							3
Exotic zoo mammals		8	1						9
Ferrets (lab)	1	28			1139		88		1256
Fish	10 703	22 336	98 084	7080	30 537	202	9865	316	179 123
Goats (domestic)		7	341						348
Goats (wild)			3						3
Guinea pigs (lab)	736	619	110	123		244	2046	1282	5160
Hares (wild)		2							2
Horses (domestic)		226	346	20	125		145		862
Koalas		5	29			15			49
Laboratory mammals, other	380	29		30		105		11	555
Lizards	45	387	860		36				1328
Macaques	2	40	18	22		5			87
Macropods	518	4315	295	3	31	21			5183
Marmosets						56			56

Animal Type	Procedure impact							Total	
	Animal unconscious without recovery	Observational study, minor interference	Minor intervention, no anaesthesia	Minor operative procedure with recovery	Minor physiological challenge	Surgery with recovery	Major physiological challenge		Death as an end point
Mice (lab)	98 212	43 541	90 562	38 841	52 322	34 316	68 784	7684	434 262
Mice (wild)		1	230						231
Monotremes		12	136						148
Native mammals, other	6	1336	1718						3060
Native rats, mice		2023	564						2587
Pigs (domestic)	119	869	1156		981	84	114		3323
Pigs (wild)					5				5
Possums, gliders		1526	197	149	84				1956
Poultry	13 898	76 756	2335		3372		593	680	97 634
Rabbits (lab)	626	165	70	28	29	409	122		1449
Rabbits (wild)	60	7							67
Rats (lab)	9355	2043	1530	3893	1480	7143	1222		26 666
Rats (wild)	1	51	58						110
Reptiles, other		8	69						77
Seals, sealions		4	1582	20					1606
Sheep (domestic)	1293	57 937	11 644	320	4126	813	850		76 983
Snakes		7	36						43
Turtles, tortoises		53	60						113
Whales, dolphins		135							135
Wombats		3		2					5
Total	137 121	236 972	241 165	60 072	96 226	44 557	83 961	9978	910 052

Table 5: Number of animals used, by type of animal and project benefit, 2014

Animal Type	Project benefit														Total
	Biological products	Biology/ physiology	Demonstration	Diseases, animal	Diseases, human	Diseases, zoonotic	Domestic animal management	Environment	Pest management	Regulatory testing	Technique development	Training	Wildlife management	Xenotrans-plantation	
Amphibians		2651	52	5	38			1080			13	190	529		4558
Birds (exotic captive)		20													20
Birds (exotic wild)		76		107				21					100		304
Birds (native captive)		615										82	229		926
Birds (native wild)		777	100	1715		533		8537			274	68	9360		21 364
Birds, other		106	169	32							205	1			513
Cats (non-wild)		18	125	92	37		17			116	5	64			474
Cats (wild)								5	13				20		38
Cattle (domestic)	38	351	387	2403	11	15	4528	456		30		3771			11 990
Cephalopods		37	6										80		123
Crustaceans			4006					2477					15 832		22 315
Dasyurids			7					331			6	119	176		639
Dogs (non-wild)	93	33	20	587	3		215			182	57	931			2121
Dogs, foxes (wild)								20					47		67
Domestic mammals, other			19		4							93			116
Exotic feral mammals, other													3		3
Exotic zoo mammals		1	8												9
Ferrets (lab)	9	24			1164	59									1256
Fish		28 757	704	220	13548		2600	98447	36		18	1420	33 373		179 123
Goats (domestic)			3			341						4			348
Goats (wild)		3													3
Guinea pigs (lab)		464		1236	3040	36				17	3	364			5160
Hares (wild)								2							2
Horses (domestic)			28	333	121	6	65			25	20	264			862
Koalas		15		1				30					3		49
Laboratory mammals, other		130			421						4				555
Lizards		438	49					430			44	44	323		1328
Macaques	1	8			60							18			87
Macropods		718						3971				60	434		5183
Marmosets		56													56

Animal Type	Project benefit														Total
	Biological products	Biology/ physiology	Demonstration	Diseases, animal	Diseases, human	Diseases, zoonotic	Domestic animal management	Environment	Pest management	Regulatory testing	Technique development	Training	Wildlife management	Xenotransplantation	
Mice (lab)	669	155 523	285	19 604	243 483	1009	603		50	150	2063	9283		1540	434 262
Mice (wild)								38	16			16	161		231
Monotremes								45				1	102		148
Native mammals, other		15				221		1833			13	22	956		3060
Native rats, mice			20		18			2265			22	76	186		2587
Pigs (domestic)	966	186		747	139	2	975			165	9	134			3323
Pigs (wild)								5							5
Possums, gliders		23		9				1115			60	2	747		1956
Poultry	8524	2569	167	11 919	1372	34 159	33 397			5232	101	194			97 634
Rabbits (lab)	147	307	21	572	191		15			11	12	173			1449
Rabbits (wild)								7	60						67
Rats (lab)	55	10 857	27	233	13 510					255	62	1667			26 666
Rats (wild)								55			1	2	52		110
Reptiles, other		8						9				2	58		77
Seals, sealions				50				1535					21		1606
Sheep (domestic)	632	905	17 834	4081	922		13 832	138		148	84	38 407			76 983
Snakes								37			1	5			43
Turtles, tortoises								37				3	73		113
Whales, dolphins													135		135
Wombats								4					1		5
Total	11 134	205 691	24037	43946	278 082	36 381	56 247	122 930	175	6331	3077	57 480	63 001	1540	910 052

Table 6: Number of animals used, by type of animal and deaths, 2014

Animal Type	Animal death			Total animals
	Death as an endpoint	Other deaths	Total deaths	
Amphibians		2558	2558	4558
Birds (exotic captive)		12	12	20
Birds (exotic wild)		2	2	304
Birds (native captive)		157	157	926
Birds (native wild)		48	48	21 364
Birds, other		120	120	513
Cats (non-wild)		78	78	474
Cats (wild)		8	13	38
Cattle (domestic)		80	80	11 990
Cephalopods		112	112	123
Crustaceans		7105	7105	22 315
Dasyurids		1	1	639
Dogs (non-wild)		161	161	2121
Dogs, foxes (wild)				67
Domestic mammals, other		6	6	116
Exotic feral mammals, other				3
Exotic zoo mammals				9
Ferrets (lab)		392	392	1256
Fish	316	34 584	34 900	179 123
Goats (domestic)				348
Goats (wild)				3
Guinea pigs (lab)	1282	2890	4172	5160
Hares (wild)				2
Horses (domestic)		8	8	862
Koalas				49
Laboratory mammals, other	11	515	526	555
Lizards		170	170	1328
Macaques		10	10	87
Macropods		571	571	5183
Marmosets		39	39	56
Mice (lab)	7684	376 138	383 822	434 262
Mice (wild)		3	3	231

Animal Type	Animal death			Total animals
	Death as an endpoint	Other deaths	Total deaths	
Monotremes				148
Native mammals, other		9	9	3060
Native rats, mice		7	7	2587
Pigs (domestic)		1453	1453	3323
Pigs (wild)		1	1	5
Possums, gliders		8	8	1956
Poultry	680	22 125	22 805	97 634
Rabbits (lab)		1009	1009	1449
Rabbits (wild)		60	60	67
Rats (lab)		22 938	22 938	26 666
Rats (wild)		2	2	110
Reptiles, other		8	8	77
Seals, sealions				1606
Sheep (domestic)		3120	3120	76 983
Snakes				43
Turtles, tortoises				113
Whales, dolphins				135
Wombats				5
Total	9978	476 508	486 486	910 052

Table 7: Number of animals used, by project purpose and project benefit, 2014

Overall purpose	Project benefit													Total	
	Biological products	Biology/ physiology	Demonstration	Diseases, animal	Diseases, human	Diseases, zoonotic	Domestic animal management	Environment	Pest management	Regulatory testing	Technique development	Training	Wildlife management		Xenotrans-plantation
Educational objectives	78	1553	6073	110	5		68	698			1010	57 289	108		66 992
Environmental objectives		2773	76	429				115 144	65		12	52	15 199		133 750
Improvement of animal management/production	12	5017	17 626	1350	1138	2	14 655	688	110	18	612	30	45 224		86 482
Maintenance/improvement of human/animal health/welfare	10 285	12 003	8	31 461	114 380	35 317	39 519			6313	1339	92	126		250 843
Understanding of human/animal biology	759	184 345	254	10 596	162 559	1062	2005	6400			104	17	2344	1540	371 985
Total	11 134	205 691	240 37	43946	278 082	36 381	56 247	122 930	175	6331	3077	57 480	63 001	1540	910 052

Table 8: Number of animals used, by project purpose and procedure impact, 2014

Overall purpose	Procedure impact								Total
	Animal unconscious without recovery	Observational study, minor interference	Minor intervention, no anaesthesia	Minor operative procedure with recovery	Minor physiological challenge	Surgery with recovery	Major physiological challenge	Death as an end point	
Educational objectives	7747	46 064	11 744	407	150	118	762		66 992
Environmental objectives	979	24 901	104 420	235	2402	214	278	321	133 750
Improvement of animal management/production	5192	23 850	15 283	10 246	29 875	757	1279		86 482
Maintenance/improvement of human/animal health/welfare	33 469	90 583	34 792	14 359	19 802	17 891	30 290	9657	25 0843
Understanding of human/animal biology	89 734	51 574	74 926	34 825	43 997	25 577	51 352		371 985
Total	137 121	236 972	241 165	60 072	96 226	44 557	83 961	9978	910 052

Table 9: Number of animals used, by project purpose and procedure, 2014

Overall purpose	Procedure															Total
	Aversive stimuli	Central nervous system	Genetic modification	Immuno-modulatory methods	Infection induction	Ionising radiation	Long term attachment/insertion	Monoclonal antibody production	Neoplasia	Neuromuscular block, electro-immobilisation	Other disease	Polyclonal antibody production	Skin irritancy	Toxicity	Other	
Educational objectives	27	12	79				16				122				66 736	66 992
Environmental objectives		200			36		3493							2063	127 958	133 750
Improvement of animal management/production	18		1685	899			4010				42				79 828	86 482
Maintenance/improvement of human/animal health/welfare	35 699	1095	31 856	7552	40 381	3294	1144	40	12 824		20 575	485	141	1334	94 423	250 843
Understanding of human/animal biology	3001	6830	64 192	15 144	26 588	8442	4003	694	32 663	24	44 331	1108		298	164 667	371 985
Total	38 745	8137	97 812	23 595	67 005	11 736	12 666	734	45 487	24	65 070	1593	141	3695	533 612	910 052

Table 10: Number of animals used by project purpose and animal source, 2014

Overall purpose	Animal source										Total
	Specified animal supplier	Other specified animal source	Animals in their natural habitat	Animals removed from natural habitat	Colony/zoo	Commercial supplier	Own derivation	Private donation	Private animals on farm	Other	
Educational objectives	13 035	21	3746	585		5228	3003	71	40 208	1095	66 992
Environmental objectives	12		128 366	1770	119	576	2492		400	15	133 750
Improved animal management/production	7110	10	2287	30 154	509	8383	12 725	27	24 924	353	86 482
Maintenance/improvement human/animal health/welfare	126 941	58	1720	18	75	29 653	13146	67	78 232	933	250 843
Understanding of human/animal biology	3142 54	6239	4643	6760	38	6317	31 279	38	1883	534	371 985
Total	461 352	6328	140 762	39 287	741	50 157	62 645	203	145 647	2930	910 052

Table 11: Number of animals used, by impact of procedures and project benefit, 2014

Impact on animal	Project benefit														Total
	Biological products	Biology/physiology	Demonstration	Diseases, animal	Diseases, human	Diseases, zoonotic	Domestic animal management	Environment	Pest management	Regulatory testing	Technique development	Training	Wildlife management	Xenotransplantation	
Animal unconscious without recovery	8838	63 473	102	3018	45 481	21	2647	896	60	3251	400	6365	2569		137 121
Observational study involving minor interference	15	31 933	19 121	11 366	26 504	34 367	38 123	21 999		336	904	43 657	8647		236 972
Minor conscious intervention, no anaesthesia	144	33 918	4806	8836	59 685	956	9601	99 369	66	703	21	6390	16 465	205	241 165
Minor operative procedure with recovery	140	16 730	6	4363	27 805	70	735	201		13	252	173	9584		60 072
Minor physiological challenge	1648	30 222	2	4501	28 053	88	4094	265		1968	306	147	24 932		96 226
Surgery with recovery		8150		4	33 655		84	100			1019	108	102	1335	44 557
Major physiological challenge	349	21 265		6684	52 416	879	963	100	44	60	175	640	386		83 961
Death as an end point				5174	4483				5				316		9978
Total	11 134	205 691	24 037	43 946	278 082	36 381	56 247	122 930	175	6331	3077	57 480	63 001	1540	910 052

Table 12: Number of animals used by impact of procedure and procedure, 2014

Impact on animal	Procedure															Total
	Aversive stimuli	Central nervous system	Genetic modification	Immuno-modulatory methods	Infection induction	Ionising radiation	Long term attachment/insertion	Monoclonal antibody production	Neoplasia	Neuromuscular block, electro-immobilisation	Other disease	Polyclonal antibody production	Skin irritancy	Toxicity	Other	
Animal unconscious without recovery	1179	211	10 483	5367	12 052	576	147	40	1595	24	7821	78		97	97 451	137 121
Observational study involving minor interference	35 176	340	35 434	601	730	373	189	63	1851		2654			686	158 875	236 972
Minor conscious intervention, no anaesthesia	402	266	25 078	8028	2116	38	3852		2654		3789	382	138	463	193 959	241 165
Minor operative procedures with recovery		369	6415	2025	2150	793	3680		4086		14 691	40	3	10	25 810	60 072
Minor physiological challenge	1074	365	2020	5205	24376	86	125	404	7012		15 481	826		2084	37 168	96 226
Surgery with recovery	687	4585	10 896	526	540	19	3258		6504		10 038			38	7466	44 557
Major physiological challenge	227	2001	7486	1843	19 867	9851	1415	227	21 785		10 585	267		312	8095	83 961
Death as an end point					5174						11			5	4788	9978
Total	38 745	8137	97 812	23 595	67 005	11736	12 666	734	45 487	24	65 070	1593	141	3695	533 612	910 052

Table 13: Specified animals used in breeding colonies, 2014

Animal Type	Non-genetically modified	Genetically modified	Euthanasia, humane killing or unexpected death	Total
Guinea pigs (lab)	345		151	345
Macaques	263		5	263
Marmosets	305		4	305
Mice (lab)	420 126	568 495	692 991	988 621
Rabbits (lab)	133		16	133
Rats (lab)	25 546	4271	18 220	29 817
Total	446 718	572 766	711 387	1 019 484

