

Statistics of animal use in research and teaching, Victoria

1 January 2013 to 31 December 2013

Report number 31



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Contents

Table 1: Number of animals used, by type of animal and project purpose, 2013	3
Table 2: Number of animals used, by type of animal and animal source, 2013	5
Table 3: Number of animals used, by type of animal and procedures, 2013	7
Table 4: Number of animals used, by type of animal and impact of procedure, 2013	9
Table 5: Number of animals used, by type of animal and project benefit, 2013	11
Table 6: Number of animals used, by type of animal and deaths, 2013	13
Table 7: Number of animals used, by project purpose and project benefit, 2013	15
Table 8: Number of animals used, by project purpose and procedure impact, 2013	16
Table 9: Number of animals used, by project purpose and procedure, 2013	17
Table 10: Number of animals used by project purpose and animal source, 2013	18
Table 11: Number of animals used, by impact of procedures and project benefit, 2013	19
Table 12: Number of animals used by impact of procedure and procedure, 2013	20
Table 13: Specified animals used in breeding colonies, 2013	21

Biosecurity branch, Department of Economic Development, Jobs, Transport and Resources Victoria

Returns on the use of animals in licensed scientific institutions must be made to the Secretary of the Department of Economic Development, Jobs, Transport and Resources each year. Details of the return are based on Regulation 100 of the Prevention of Cruelty to Animals Regulations 2008. The Biosecurity branch oversees the administration of Part 3 of the *Prevention of Cruelty to Animal Act 1986* and Part 4 of the 2008 Regulations, which refer to scientific procedures. Its *Statistics of animal use in research and teaching Victoria* (report number 31) compiles the returns for 1 January to 31 December 2013. It reports only on animals used in Victoria.

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 2013 return guidelines, available at www.economicdevelopment.vic.gov.au .

Table 1: Number of animals used, by type of animal and project purpose, 2013

Animal Type	Project purpose					Total
	Animal management/production	Educational	Environmental	Human/animal biology	Human/animal health/welfare	
Amphibians	120	764	5211	1409	2028	9532
Birds (exotic wild)			146	64		210
Birds (native captive)	171	41	38	474	85	809
Birds (native wild)	1762	1319	8451	6885	238	18 655
Birds, other	665	580	101	55		1401
Cats (non-wild)		165	4	51	202	422
Cats (wild)		6	60		6	72
Cattle (domestic)	3920	3295	441	160	11 664	19 480
Cephalopods	439	3				442
Crustaceans	14 774	2150	5895	32		22 851
Dasyurids	36	184	624	6		850
Dogs (non-wild)	153	645		183	897	1878
Dogs, foxes wild		4	162		35	201
Exotic feral mammals, other			4		8	12
Exotic zoo mammals					23	23
Ferrets (lab)				13	2113	2126
Fish	160 654	786	131 226	24 163	7265	324 094
Goats (domestic)		7	80	4	12	103
Goats (wild)			18			18
Guinea pigs (lab)		88		373	3395	3856
Hares (wild)		3				3
Horses (domestic)	3	218		52	665	938
Koalas	400	1	758	49	13	1221
Laboratory mammals, other				1178	945	2123

Animal Type	Project purpose					Total
	Animal management/production	Educational	Environmental	Human/animal biology	Human/animal health/welfare	
Lizards	25	145	822	806	33	1831
Macaques		42		22	34	98
Macropods		189	780	1052	93	2114
Marmosets		18		60		78
Mice (lab)	4971	8352	112	348 635	122 136	484 206
Mice (wild)			214	5		219
Monotremes		10	135	73	30	248
Native mammals, other	6	81	1626	41	50	1804
Native rats, mice		146	2463	1		2610
Other domestic mammal	6	106			20	132
Pigs (domestic)	143	120		364	1418	2045
Possums, gliders	5	85	524	228	6	848
Poultry	4019	627	16	1634	22 916	29 212
Rabbits (lab)		87		991	588	1666
Rabbits (wild)			5			5
Rats (lab)	101	1167	8	17 749	7226	26 251
Rats (wild)		1	374			375
Reptiles, other			45			45
Seals, sealions			1795	8	24	1827
Sheep (domestic)	70 325	36 145	106	3208	7381	117 165
Snakes		1	26			27
Tortoises, turtles			172		38	210
Whales, dolphins			123			123
Wombats		1	35		12	48
Total	262 698	57 582	162 600	410 028	191 599	1 084 507

Table 2: Number of animals used, by type of animal and animal source, 2013

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	Municipal pound	Own derivation	Private donation	Privately owned animals on a farm	Other	
Amphibians			7234	311	24	1083		810			70	9532
Birds (exotic wild)			186	24								210
Birds (native captive)					283	119		326			81	809
Birds (native wild)			18 643	12								18 655
Birds, other			1344			55					2	1401
Cats (non-wild)			4				50	170	92		106	422
Cats (wild)			45		6	21						72
Cattle (domestic)						1380		1588	50	16 398	64	19 480
Cephalopods			440	2								442
Crustaceans			18 134	380		4337						22 851
Dasyurids			808		42							850
Dogs (non-wild)						137	4	201	421	161	954	1878
Dogs, foxes wild			139	9		53						201
Exotic feral mammals, other			4					8				12
Exotic zoo mammals					23							23
Ferrets (lab)						2126						2126
Fish			127 142	3902	15	5537		187 122	74		302	324 094
Goats (domestic)						16				80	7	103
Goats (wild)			18									18
Guinea pigs (lab)	3856											3856
Hares (wild)			3									3
Horses (domestic)						120		233	15	496	74	938
Koalas			1179		21	21						1221

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	Municipal pound	Own derivation	Private donation	Privately owned animals on a farm	Other	
Laboratory mammals, other								2123				2123
Lizards			1340	325	36	4		78			48	1831
Macaques	98											98
Macropods			1416	301	49			298			50	2114
Marmosets	78											78
Mice (lab)	479 397	4809										484 206
Mice (wild)			214								5	219
Monotremes			181		67							248
Native mammals, other			1632	4	159			9				1804
Native rats, mice			2610									2610
Other domestic mammal								76		20	36	132
Pigs (domestic)						1960				81	4	2045
Possums, gliders			728	5	115							848
Poultry						23 884		5285		29	14	29 212
Rabbits (lab)	1644	22										1666
Rabbits (wild)			5									5
Rats (lab)	26 153	98										26 251
Rats (wild)			375									375
Reptiles, other			45									45
Seals, sealions			1819		8							1827
Sheep (domestic)						3619		3544		109 979	23	117 165
Snakes			27									27
Tortoises, turtles			183	2	25							210
Whales, dolphins			123									123
Wombats			48									48
Total	511 226	4929	186 069	5277	873	44 472	54	201 871	652	127 244	1840	1 084 507

Table 3: Number of animals used, by type of animal and procedures, 2013

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			80	420											9032	9532
Birds (exotic wild)															210	210
Birds (native captive)	52			119			38								600	809
Birds (native wild)							1854								16 801	18 655
Birds, other															1401	1401
Cats (non-wild)				76			77			2	16				251	422
Cats (wild)							1								71	72
Cattle (domestic)				791	24		35					17		36	18 577	19 480
Cephalopods															442	442
Crustaceans	15						4159								18 677	22 851
Dasyurids							14								836	850
Dogs (non-wild)	231	4		267	20		3							16	1337	1878
Dogs, foxes wild							8								193	201
Exotic feral mammals, other					8										4	12
Exotic zoo mammals	10						8								5	23
Ferrets (lab)				72	1945							90			19	2126
Fish	211		14 818		540		1212				2414			3855	301 044	324 094
Goats (domestic)												16			87	103
Goats (wild)							15								3	18
Guinea pigs (lab)		2	24	372	447		125				93	42	147		2604	3856
Hares (wild)															3	3
Horses (domestic)				128	3	2	1					125		14	665	938
Koalas							48								1173	1221
Laboratory mammals, other		47									362				1714	2123
Lizards	33						190								1608	1831
Macaques				6	28		10								54	98

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	16						461								1637	2114
Marmosets		37													41	78
Mice (lab)	1667	5278	73 813	22 541	61 104	16 530	1414	501	43 505		66 554	797	0	1617	188 885	484 206
Mice (wild)							47								172	219
Monotremes							72								176	248
Native mammals, other					9		119								1676	1804
Native rats, mice							225								2385	2610
Other domestic mammal												20			112	132
Pigs (domestic)	117			171	960		69				68		56	40	564	2045
Possums, gliders							8								840	848
Poultry	185		4213	2316	17 748							104			4646	29 212
Rabbits (lab)				448	6		295	24			150	223	0		520	1666
Rabbits (wild)															5	5
Rats (lab)	849	747	2093	36	262		1274	62	66		7008			298	13 556	26 251
Rats (wild)							6								369	375
Reptiles, other															45	45
Seals, sealions							14								1813	1827
Sheep (domestic)		24		427	249		614	2			385	9		68	115 387	117 165
Snakes															27	27
Tortoises, turtles							15								195	210
Whales, dolphins															123	123
Wombats							12								36	48
Total	3386	6139	95 041	28 190	83 353	16 532	12 443	589	43 571	2	77 050	1443	56	6091	710 621	1 084 507

Table 4: Number of animals used, by type of animal and impact of procedure, 2013

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	1067	2190	5322	7	80	866			9532
Birds (exotic wild)		146	16		48				210
Birds (native captive)	12	351	35	55	356				809
Birds (native wild)	69	9346	9225	15					18 655
Birds, other		1346	55						1401
Cats (non-wild)	32	215	90	25		60			422
Cats (wild)		50		1				21	72
Cattle (domestic)	56	6677	11 999	159	459		130		19 480
Cephalopods		2	407	33					442
Crustaceans	41	6508	12 471	3831					22 851
Dasyurids	6	144	694	6					850
Dogs (non-wild)	95	804	792	89	70	28			1878
Dogs, foxes wild		111	35	8				47	201
Exotic feral mammals, other		4				8			12
Exotic zoo mammals		20	3						23
Ferrets (lab)	91				1834		201		2126
Fish	107 23	189 388	100 810	10 143	4353	291	8386		324 094
Goats (domestic)	12	87	4						103
Goats (wild)		3	15						18
Guinea pigs (lab)	438	473	18	127	16	207	1638	939	3856
Hares (wild)		3							3
Horses (domestic)		452	320	18	32		116		938
Koalas		944	77	200					1221
Laboratory mammals, other	1254	266	539			47		17	2123

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
Lizards	138	890	673	12	118				1831
Macaques	6	39		41		12			98
Macropods	561	981		514	32	26			2114
Marmosets	20		15	3		40			78
Mice (lab)	102 315	40 422	111 542	43 669	703 74	45 541	64 909	5434	484 206
Mice (wild)		32	187						219
Monotremes		104	144						248
Native mammals, other	29	649	1041	76	9				1804
Native rats, mice	44	1487	1079						2610
Other domestic mammal		36	10		84	2			132
Pigs (domestic)	442	1312	147	8	59	76	1		2045
Possums, gliders	1	572	257	8	10				848
Poultry	15 297	1795	5861	136	3751		1971	401	29 212
Rabbits (lab)	829	54	111	26	29	460	157		1666
Rabbits (wild)		5							5
Rats (lab)	10 067	1396	1374	1090	1569	9208	1547		26 251
Rats (wild)	1	30	344						375
Reptiles, other			45						45
Seals, sealions		8	1813	6					1827
Sheep (domestic)	1141	106 212	6894	628	1127	1076	87		117 165
Snakes	5	5	17						27
Tortoises, turtles		168	10	32					210
Whales, dolphins		120	3						123
Wombats		36		12					48
Total	144 792	375 883	274 494	60 978	84 410	57 948	79 143	6859	1 084 507

Table 5: Number of animals used, by type of animal and project benefit, 2013

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		1865	139		7			3092	38		13	181	4197		9532
Birds (exotic wild)		64						69					77		210
Birds (native captive)		474	40									56	239		809
Birds (native wild)		1416				3103		6087			274	980	6795		18 655
Birds, other		55	101					101			479		665		1401
Cats (non-wild)		61	56	85	28		53			38	18	79	4		422
Cats (wild)				6				2	21			6	37		72
Cattle (domestic)	118	114	546	9969	17		5490	376		38	35	2777			19 480
Cephalopods			3					299					140		442
Crustaceans		45	2137					549					20 120		22 851
Dasyurids			4					176			5	180	485		850
Dogs (non-wild)	80	91	40	587	15	20	337			191	8	509			1878
Dogs, foxes wild				35				43	53			4	66		201
Exotic feral mammals, other					8								4		12
Exotic zoo mammals		3	8										12		23
Ferrets (lab)	23	13			1890	200									2126
Fish	2	21 043	260		11 225		3408	105 792	540		15	443	181 366		324 094
Goats (domestic)	12	4	7					80							103
Goats (wild)								15					3		18
Guinea pigs (lab)	24	283	10	998	2395	16				32	5	93			3856
Hares (wild)												3			3
Horses (domestic)	39	52	11	167	117	5	280			60	44	163			938
Koalas		29						1094				1	97		1221
Laboratory mammals, other		1178			945										2123
Lizards		797						609			44	63	318		1831
Macaques	6	22			28							42			98
Macropods		1002		39		50		20				189	814		2114

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	
Marmosets		60										18			78
Mice (lab)	1776	167 980	876	12 804	289 945	704	500		16	691	1812	5681		1421	484 206
Mice (wild)								5	7				207		219
Monotremes								42				10	196		248
Native mammals, other		15		37		38		689	10		19	51	945		1804
Native rats, mice			17					1828			22	107	636		2610
Other domestic mammal	20		36				64					12			132
Pigs (domestic)	2	3	4	184	444		304			984	13	107			2045
Possums, gliders		220		6				109			60	25	428		848
Poultry	855	848	192	19 029	1483	4077	652		16	1819		241			29 212
Rabbits (lab)	178	428	8	468	489					0	25	70			1666
Rabbits (wild)													5		5
Rats (lab)	81	11 024	26	486	13371					198	133	900		32	26 251
Rats (wild)											1		374		375
Reptiles, other													45		45
Seals, sealions		8		50				1745					24		1827
Sheep (domestic)	602	1249	65 805	5729	911		5412	106		1645	26	35 680			117 165
Snakes								15			1		11		27
Tortoises, turtles		19						2					189		210
Whales, dolphins													123		123
Wombats								11				1	36		48
Total	3818	210 465	70 326	50 679	323 318	8213	16 500	122 956	701	5696	3052	48 672	218 658	1453	1 084 507

Table 6: Number of animals used, by type of animal and deaths, 2013

Animal Type	Animal death			Total animals
	Death as an endpoint	Other deaths	Total deaths	
Amphibians		2115	2115	9532
Birds (exotic wild)				210
Birds (native captive)		106	106	809
Birds (native wild)		96	96	18 655
Birds, other		55	55	1401
Cats (non-wild)		86	86	422
Cats (wild)	21		21	72
Cattle (domestic)		129	129	19 480
Cephalopods		408	408	442
Crustaceans		8945	8945	22 851
Dasyurids		8	8	850
Dogs (non-wild)		176	176	1878
Dogs, foxes wild	47	9	56	201
Exotic feral mammals, other		8	8	12
Exotic zoo mammals				23
Ferrets (lab)		744	744	2126
Fish		85 825	85 825	324 094
Goats (domestic)		17	17	103
Goats (wild)				18
Guinea pigs (lab)	939	2075	3014	3856
Hares (wild)				3
Horses (domestic)		12	12	938
Koalas		16	16	1221
Laboratory mammals, other	17	2052	2069	2123
Lizards		245	245	1831

Animal Type	Animal death			Total animals
	Death as an endpoint	Other deaths	Total deaths	
Macaques		18	18	98
Macropods		635	635	2114
Marmosets		52	52	78
Mice (lab)	5434	383 522	388 956	484 206
Mice (wild)		1	1	219
Monotremes		1	1	248
Native mammals, other		60	60	1804
Native rats, mice		46	46	2610
Other domestic mammal		13	13	132
Pigs (domestic)		538	538	2045
Possums, gliders		7	7	848
Poultry	401	26 530	26 931	29 212
Rabbits (lab)		1520	1520	1666
Rabbits (wild)				5
Rats (lab)		22 296	22 296	26 251
Rats (wild)		1	1	375
Reptiles, other				45
Seals, sealions		2	2	1827
Sheep (domestic)		3062	3062	117 165
Snakes		5	5	27
Tortoises, turtles		1	1	210
Whales, dolphins				123
Wombats				48
Total	6859	541 437	548 296	1 084 507

Table 7: Number of animals used, by project purpose and project benefit, 2013

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	162	1422	4849	148	489		68	2			2131	48 311			57 582
Environmental objectives		3745	96	50				113 266	701			73	44 669		162 600
Improvement of animal management/production	110	3730	65 343	3223	1582	1762	9938	1043		2850	55	70	172 992		262 698
Maintenance/improvement of human/animal health/welfare	2976	6217	8	39 168	126 393	4948	6374	2295		2155	654	146	265		191 599
Understanding of human/animal biology	570	195 351	30	8090	194 854	1503	120	6350		691	212	72	732	1453	410 028
Total	3818	210 465	70 326	50 679	323 318	8213	16 500	122 956	701	5696	3052	48 672	218 658	1453	1 084 507

Table 8: Number of animals used, by project purpose and procedure impact, 2013

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	6612	42 044	7338	47	546	113	882		57 582
Environmental objectives	4136	36 459	113 462	3559	3986	25	905	68	162 600
Improvement of animal management/production	6466	228 784	18 827	5252	2320	258	791		262 698
Maintenance/improvement of human/animal health/welfare	32 251	25 363	41 970	17 013	23 944	19 072	25 195	6791	191 599
Understanding of human/animal biology	95 327	43 233	92 897	35 107	53 614	38 480	51 370		410 028
Total	144 792	375 883	274 494	60 978	84 410	57 948	79 143	6859	1 084 507

Table 9: Number of animals used, by project purpose and procedure, 2013

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	64	12		19	551		91								56 845	57 582
Environmental objectives	15				572		2427							3855	155 731	162 600
Improvement of animal management/production	33		1989	500	2003		4281						56		253 836	262 698
Maintenance/improvement of human/animal health/welfare	1303	216	37 744	8287	45 187	3410	1040	76	10 945		24 469	604	0	1731	56 587	191 599
Understanding of human/animal biology	1971	5911	55 308	19 384	35 040	13 122	4604	513	32 626	2	52 581	839		505	187 622	410 028
Total	3386	6139	95 041	28 190	83 353	16 532	12 443	589	43 571	2	77 050	1443	56	6091	710 621	1 084 507

Table 10: Number of animals used by project purpose and animal source, 2013

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	Municipal pound	Own derivation	Private donation	Private animals on farm	Other	
Educational objectives	9174	580	3468	287	40	4015	50	3090	142	36 385	351	57 582
Environmental objectives	120		154 043	3454	315	361		3745		562		162 600
Improved animal management/production	5072		15 462	486	228	11 329		159 792		70 153	176	262 698
Maintenance/improvement human/animal health/welfare	132 753	626	2602	54	188	23 653	4	12 582	394	17 848	895	191 599
Understanding of human/animal biology	364 107	3723	10 494	996	102	5114		22 662	116	2296	418	410 028
Total	511 226	4929	186 069	5277	873	44 472	54	201 871	652	127 244	1840	1 084 507

Table 11: Number of animals used, by impact of procedures and project benefit, 2013

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	573	67 471	417	15 872	45 368	68	3408	4416	38	614	262	5439	846		144 792
Observational study involving minor interference	733	19 329	68 853	6518	32 097		6928	11 692	48	2861	995	37 661	188 168		375 883
Minor conscious intervention, no anaesthesia	1338	40 954	830	14 399	71 994	6839	4034	104 443	299	964	1401	4846	22 067	86	274 494
Minor operative procedure with recovery	128	18 754	8	1936	29 615	165	1092	1462			186	90	7522	20	60 978
Minor physiological challenge	345	29 155	218	3222	48 907	63	782	9	236	1225	47	196	5		84 410
Surgery with recovery	19	9291		145	46 708		126	41		32	128	111		1347	57 948
Major physiological challenge	482	25 511		5067	45 558	1078	130	893	12		33	329	50		79 143
Death as an end point	200			3520	3071				68						6859
Total	3818	210 465	70 326	50 679	323 318	8213	16 500	122 956	701	5696	3052	48672	218 658	1453	1 084 507

Table 12: Number of animals used by impact of procedure and procedure, 2013

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	308	499	12 006	6264	13 207	414	302	50	1725	2	9399	126		8	100 482	144 792
Observational study involving minor interference	626	640	20 087	834	1995	333	225	99	2381		4882			743	343 038	375 883
Minor conscious intervention, no anaesthesia	503	273	30 774	11 266	2671	205	2867		2353		10 009	178	0	470	212 925	274 494
Minor operative procedures with recovery		115	10 923	1558	5352	440	5851		2816		11 772	121		283	21 747	60 978
Minor physiological challenge	1581		1627	6667	37 675	409	117	154	6844		16 590	696	56	3841	8153	84 410
Surgery with recovery	272	1364	11 565	617	260	22	3075		10 267		16 567				13 939	57 948
Major physiological challenge	96	3248	8059	984	18 673	14 709	6	286	17 185		7814	322		546	7215	79 143
Death as an end point					3520						17			200	3122	6859
Total	3386	6139	95 041	28 190	83 353	16 532	12 443	589	43 571	2	77 050	1443	56	6091	710 621	1 084 507

Table 13: Specified animals used in breeding colonies, 2013

Animal Type	Non-genetically modified	Genetically modified	Euthanasia, humane killing or unexpected death	Total
Guinea pigs (lab)	244		65	244
Macaques	226		8	226
Marmosets	273		3	273
Mice (lab)	389 049	584 660	711 077	973 709
Rabbits (lab)	197		40	197
Rats (lab)	33 308	1992	16 146	35 300
Total	423 297	586 652	727 339	1 009 949

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