



MOTOR VEHICLE CENSUS AUSTRALIA

EMBARGO: 11.30AM (CANBERRA TIME) FRI 18 AUG 2000

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- For further information about these and related statistics, contact the National Information Service on 1300 135 070.

NOTES

ABOUT THIS PUBLICATION

Each year a proportion of motor vehicles do not have their registrations renewed or have their registrations cancelled due to various reasons such as accident damage, high mileage or age (See Paragraph 6 of Explanatory notes).

In 1999, New South Wales had a higher than normal attrition rate due to a large number of vehicles being removed from their register because those registrations were not renewed. These vehicles are excluded from the statistics shown in this publication.



ABBREVIATIONS

p.a. per annum

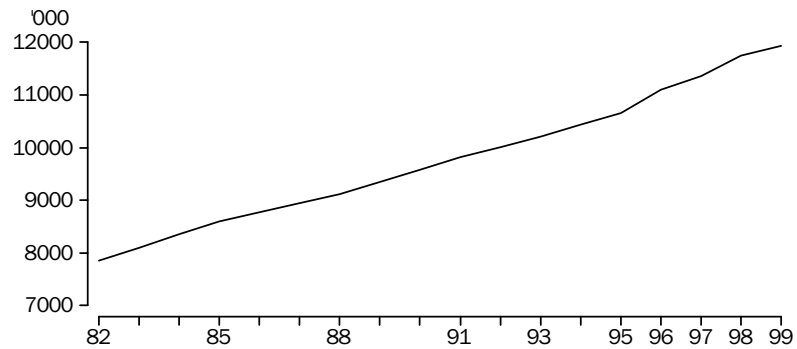
Dennis Trewin
Australian Statistician

SUMMARY OF FINDINGS

TOTAL NUMBER OF VEHICLES ON REGISTER

The number of motor vehicles (excluding motor cycles, plant and equipment, caravans and trailers) on register in Australia at 31 October 1999 was 11,934,797. This was 1.7% higher than the number recorded at the previous census taken at 31 October 1998 which was in turn 3.4% higher than the previous census at 31 October 1997 (see Notes page 2).

TOTAL VEHICLE POPULATION, Census Years



(a) Censuses were conducted every 3 years from 1982 to 1991, every two years from 1991 to 1995 and then annually from 1995.

Total registrations by State/Territory

The number of registrations increased in all States and Territories except for New South Wales which recorded a small decrease of 349 registrations (see Notes page 2). Growth in fleet size was greatest in Queensland (3.9%) and Victoria (2.7%). For Tasmania and the Australian Capital Territory, growth in 1999 followed slight falls from 1997 to 1998 in the number of vehicles on register.

New registrations and the attrition rate

The attrition rate is the proportion of the total fleet taken off the register since the last census (see the Glossary for more details). Between 1998 and 1999 the attrition rate was 4.6% compared with 3.3% between 1997 and 1998 (see Notes page 2). The number of registrations which lapsed between the 1998 and 1999 censuses was 47,711 per month compared with 33,710 between 1997 and 1998.

The number of new vehicles registered in the 12 months ending October 1999 was lower than in the previous year. In 1998-99 there was an average of 64,110 registrations per month compared to 65,929 between 1997 and 1998. (See *New Motor Vehicle Registrations, Australia* (Cat. no. 9301.0) for monthly details of new registrations.)

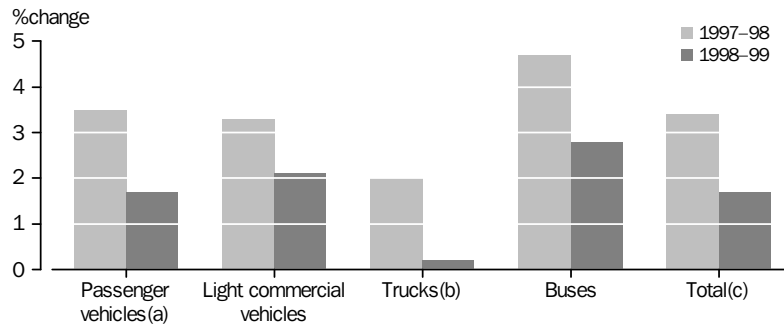
TYPE OF VEHICLE

Registrations for each vehicle type, except for campervans and rigid trucks with GVM greater than 4.5 tonnes, increased between 1998 and 1999. The largest increases applied to Buses (2.8%), rigid trucks with GVM 4.5 tonnes or less (2.3%) and light commercial vehicles (2.1%).

SUMMARY OF FINDINGS *continued*

TYPE OF VEHICLE *continued*

ANNUAL PERCENTAGE INCREASE, By Type of Vehicle



(a) Includes campervans.

(b) Includes rigid, articulated and non-freight carrying trucks.

(c) Excludes motor cycles, plant and equipment, caravans and trailers.

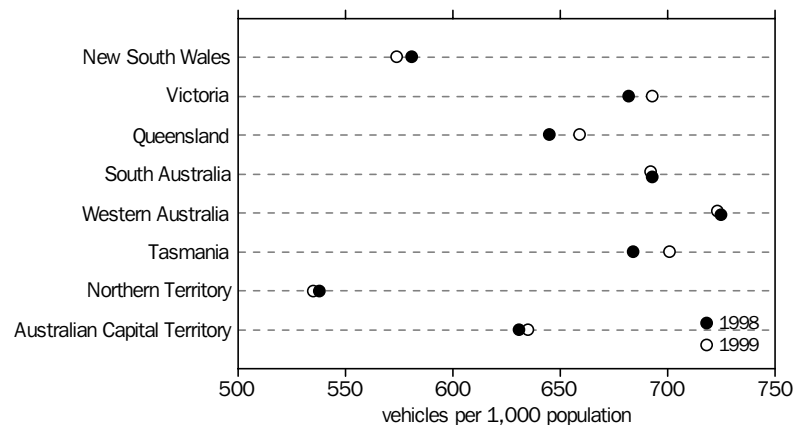
The number of motor cycles on register in Australia increased by 1.5% between 1998 and 1999 despite falls in New South Wales, South Australia and the Northern Territory.

Registrations of plant and equipment (1.8%), caravans (0.9%) and trailers (2.1%) all increased overall, although there were declines in some States and Territories.

VEHICLES AND POPULATION

At 31 October 1999, there were 647 vehicles per 1,000 population, up from 644 at 31 October 1998, an increase of 0.5 % over the year. In contrast, the rate of increase between the 1997 and 1998 censuses was 2.2%. Western Australia had the highest rate of vehicle ownership (723 vehicles per 1,000 population) and the Northern Territory the lowest (535 per 1,000 population). Victoria, Queensland, Tasmania and the Australian Capital Territory recorded increased rates of ownership whereas falls were recorded in New South Wales (see Notes page 2), South Australia, Western Australia and the Northern Territory.

MOTOR VEHICLES, By State/Territory of Registration



Source: Population data: Population by Age and Sex, Australian States and Territories (Cat. no. 3201.0).

TYPE OF FUEL

The number of vehicles using diesel and LPG/Dual fuel continued to increase more quickly than the overall fleet, rising 5.4% and 10.1%, respectively. This followed increases of 7.0% and 17.9%, respectively for the 1998 census. Vehicles with these fuel types now

SUMMARY OF FINDINGS *continued*

TYPE OF FUEL *continued*

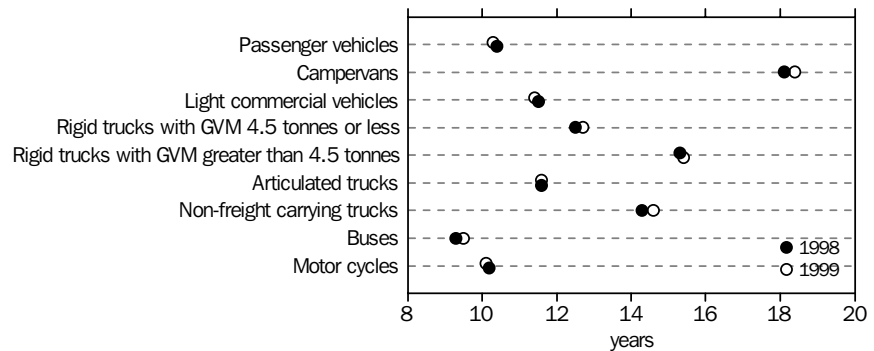
constitute 10.6% of the total fleet. The number of rigid and articulated trucks using petrol (leaded or unleaded) continued to decline from previous years. Overall, vehicles using petrol increased by 1.1%. Unleaded petrol vehicles increased by 9.1% compensating for the 12.0% decline in leaded petrol vehicles. Leaded petrol vehicles now make up about 30% of the total fleet.

AVERAGE AGE OF VEHICLES

The average age of the Australian vehicle fleet moved from 10.7 years in 1998 to 10.6 years in 1999. Vehicles with high average ages included campervans (18.4 years), rigid trucks with GVM greater than 4.5 tonnes (15.4 years) and non-freight carrying trucks (14.6 years).

Tasmania (12.5 years), South Australia (12.1 years) and Victoria (11.2 years) had the highest average age of fleet with the Northern Territory (9.2 years) and New South Wales (9.5 years) recording the lowest average ages.

ESTIMATED AVERAGE AGE(a) OF VEHICLE FLEET, By Vehicle Type



(a) For more details of calculation of average age refer to the Glossary.

MAKE OF VEHICLE

Passenger vehicles

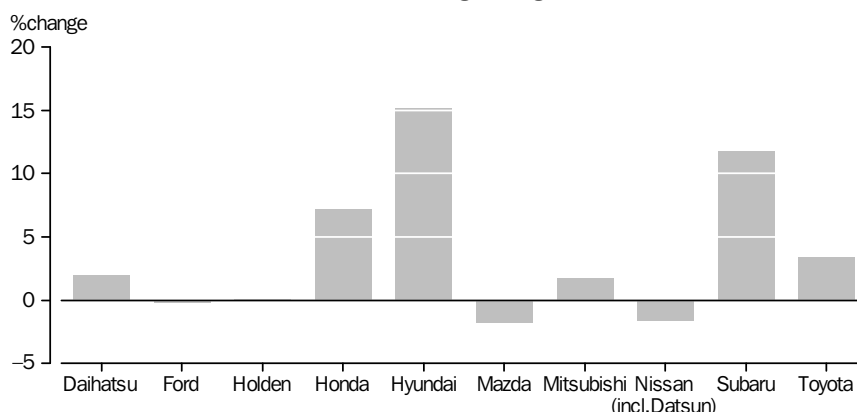
Most of the top passenger vehicle makes recorded increased registrations from 1998. Ford and Holden had negligible growth in 1999 but continue to retain large proportions of the total number of registrations (21.4% and 19.7% respectively). Their growth is restricted by attrition of older vehicles, with both having significant numbers of vehicles at least 13 years old. Nearly 36% of Ford vehicles (732,078) and 40% of Holden vehicles (740,624) are at least 13 years old.

Of all the passenger vehicles makes, Daewoo had the highest growth of 32.0% in 1999 which followed their growth of 61.4% during the previous year.

SUMMARY OF FINDINGS *continued*

MAKE OF VEHICLE *continued*

TOP 10 PASSENGER VEHICLE MAKES, Percentage change from 1998 to 1999



Light commercial vehicles

Toyota recorded strong percentage growth in registered light commercial vehicles (4.1%) and maintained the most registrations (29.7%) of this vehicle type. Their main competitors, Holden (19.5% of registrations) and Ford (18.6% of registrations), recorded lower growth rates of 3.9% and 1.3% respectively. Other makes to record significant increases were Mitsubishi (3.7%) and Mazda (3.0%).

Rigid trucks

There was an increase of 2.3% in the number of rigid trucks with GVM 4.5 tonnes or less between 1998 and 1999, reversing the fall recorded from 1997 to 1998. Isuzu (14.4%) and Mitsubishi (10.0%) were the only makes reporting significant growth, continuing the growth of the previous year. Toyota registrations fell 5.8% but it still remained the most significant make in this group with 24.1% of the total.

There was an overall fall in the number of rigid trucks with GVM greater than 4.5 tonnes (down 0.7%). Makes recording the biggest increases were Hino (7.0%), Nissan UD (5.9%), Isuzu (4.7%) and Mitsubishi (4.3%). Isuzu now has the most registrations of these vehicles with 17.8% of the total. International had the most registrations in 1998 but fell by 4.1% to have 16.7% of total registrations in 1999.

Articulated trucks

The number of articulated trucks increased 1.6% between 1998 and 1999. Kenworth continued as the top make for articulated trucks with an increase of 4.4% to 12,523 registrations, or 19.6% of the total. Of the major makes, only Freightliner (12.5%) and Western Star (11.2%) had larger percentage increases.

Buses

Toyota continued to have the largest share of the bus fleet (56.0%), all of which were small or medium sized vehicles (see Glossary for definition of 'Size of bus'). The number of Toyota buses grew by 5.2% between 1998 and 1999. Mercedes Benz had the most registrations in the large bus category (27.9% of total large bus registrations) and overall increased their number of registrations by 5.9%.

Motor cycles

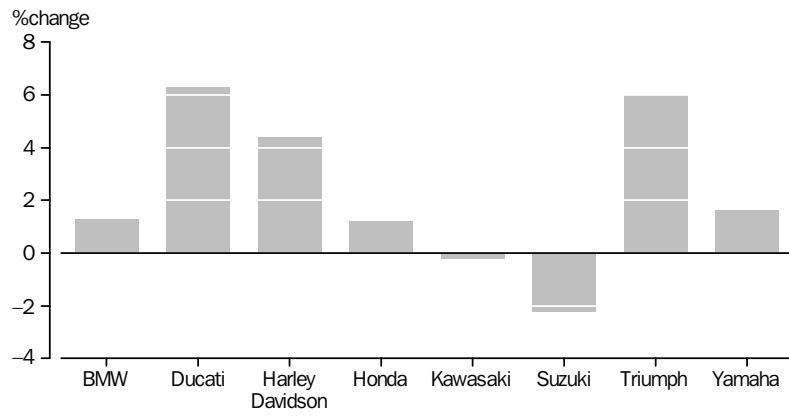
The total number of motor cycles increased by 1.5% between 1998 and 1999, following a rise of 5.0% the previous year. Of the major manufacturers, Honda and Yamaha, recorded increased registrations of 1.2% and 1.6% respectively. Kawasaki and Suzuki recorded falls of 0.2% and 2.2% respectively. The makes that had the largest increases in registrations, Ducati (6.3%), Triumph (6.0%) and Harley Davidson (4.4%), all specialise in

SUMMARY OF FINDINGS *continued*

MAKE OF VEHICLE *continued*

mid to high powered motor cycles. Honda and Yamaha continued to be the top two makes with 28.2% and 20.7% respectively of total motor cycles on register in 1999.

TOP 8 MOTOR CYCLE MAKES, Percentage change from 1998 to 1999



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MOTOR VEHICLES ON REGISTER, By Type of Vehicle—At 31 October

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
PASSENGER VEHICLES									
1997	2 843 916	2 521 814	1 607 519	801 591	956 898	240 460	64 698	169 340	9 206 236
1998	2 960 610	2 574 621	1 680 713	834 863	1 004 089	237 545	66 711	167 581	9 526 733
1999	2 963 146	2 644 962	1 741 071	838 485	1 018 036	242 867	67 558	170 144	9 686 269
CAMPERVANS									
1997	6 586	7 144	4 731	4 736	6 644	2 698	156	596	33 291
1998	6 818	7 137	5 017	4 706	6 651	2 778	159	553	33 819
1999	6 536	7 266	5 194	4 514	6 645	2 792	153	522	33 622
LIGHT COMMERCIAL VEHICLES									
1997	459 483	385 907	361 127	120 854	204 441	59 219	23 638	17 550	1 632 219
1998	481 613	390 753	377 873	125 323	209 827	59 688	24 304	17 052	1 686 433
1999	482 100	401 995	396 332	125 990	212 389	60 982	24 574	16 838	1 721 200
RIGID TRUCKS WITH GVM 4.5 TONNES OR LESS									
1997	27 096	17 557	13 548	3 614	7 005	2 269	435	607	72 131
1998	27 556	16 227	13 958	3 681	7 025	2 145	400	655	71 647
1999	27 060	16 580	15 748	3 743	6 953	2 129	433	623	73 269
RIGID TRUCKS WITH GVM GREATER THAN 4.5 TONNES									
1997	77 664	69 478	51 158	22 246	36 978	8 189	2 772	1 796	270 281
1998	80 993	68 817	52 354	22 966	38 163	7 688	2 846	1 739	275 566
1999	78 801	68 889	54 229	21 833	37 647	7 600	2 875	1 680	273 554
ARTICULATED TRUCKS									
1997	15 754	17 144	11 760	5 097	6 984	1 488	793	272	59 292
1998	16 753	17 326	12 361	5 923	7 320	1 514	820	257	62 274
1999	16 278	18 121	12 764	5 932	7 639	1 501	814	246	63 295
NON-FREIGHT CARRYING TRUCKS									
1997	3 201	5 386	2 821	1 636	2 495	905	186	69	16 699
1998	3 282	5 643	2 825	1 798	2 695	930	184	101	17 458
1999	3 230	5 704	2 929	1 905	2 780	902	158	89	17 697
BUSES									
1997	15 850	14 266	12 853	3 693	8 818	2 174	2 482	1 007	61 143
1998	16 503	14 542	13 472	3 892	9 524	2 194	2 902	r1 053	r64 082
1999	16 628	15 021	14 148	4 005	9 886	2 226	2 966	1 011	65 891
TOTAL MOTOR VEHICLES (EXCL. MOTOR CYCLES)									
1997	3 449 550	3 038 696	2 065 517	963 467	1 230 263	317 402	95 160	191 237	11 351 292
1998	3 594 128	3 095 066	2 158 573	1 003 152	1 285 294	314 482	98 326	r188 991	r11 738 012
1999	3 593 779	3 178 538	2 242 415	1 006 407	1 301 975	320 999	99 531	191 153	11 934 797

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MOTOR CYCLES, PLANT AND EQUIPMENT, CARAVANS AND TRAILERS—At 31 October

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
MOTOR CYCLES									
1997	80 598	80 271	66 640	28 744	39 318	7 581	3 948	6 001	313 101
1998	88 508	82 324	70 271	27 908	41 909	8 213	3 869	5 843	328 845
1999	85 554	87 954	73 219	26 129	42 834	8 569	3 643	5 880	333 782
PLANT AND EQUIPMENT									
1997	20 473	18 562	34 450	10 307	16 101	4 495	162	478	105 028
1998	20 730	21 185	35 804	11 856	16 713	4 617	110	690	111 705
1999	18 678	24 195	36 554	12 170	16 731	4 710	127	496	113 661
CARAVANS									
1997	57 017	93 408	39 821	28 586	36 727	5 207	675	1 387	262 828
1998	58 866	92 447	41 392	29 509	37 752	5 151	663	1 350	267 130
1999	58 574	92 962	42 778	29 730	38 119	5 253	654	1 421	269 491
TRAILERS									
1997	550 069	360 311	396 006	195 533	235 317	63 081	18 735	23 418	1 842 470
1998	574 064	366 728	419 517	212 366	247 860	63 595	19 283	23 817	1 927 230
1999	573 614	379 322	437 016	213 187	255 073	65 332	20 007	24 771	1 968 322

MOTOR VEHICLES ON REGISTER PER 1,000 POPULATION(a), Census Years

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
.....									
PASSENGER VEHICLES									
1997	453	548	473	542	532	508	346	547	497
1998	467	552	486	561	548	503	351	543	508
1999	462	561	496	562	547	516	350	549	511
.....									
CAMPERVANS									
1997	1	2	1	3	4	6	1	2	2
1998	1	2	1	3	4	6	1	2	2
1999	1	2	1	3	4	6	1	2	2
.....									
LIGHT COMMERCIAL VEHICLES									
1997	73	84	106	82	114	125	126	57	88
1998	76	84	109	84	115	126	128	55	90
1999	75	85	113	84	114	130	127	54	91
.....									
ALL TRUCK TYPES									
1997	20	24	23	22	30	27	22	9	23
1998	20	23	24	23	30	26	22	9	23
1999	20	23	24	22	30	26	22	9	23
.....									
BUSES									
1997	3	3	4	2	5	5	13	3	3
1998	3	3	4	3	5	5	15	3	3
1999	3	3	4	3	5	5	15	3	3
.....									
MOTOR CYCLES									
1997	13	17	20	19	22	16	21	19	17
1998	14	18	20	19	23	17	20	19	18
1999	13	19	21	18	23	18	19	19	18
.....									
TOTAL MOTOR VEHICLES									
1997	563	677	627	671	706	686	530	637	630
1998	581	682	645	693	725	684	538	631	644
1999	574	693	659	692	723	701	535	635	647

(a) Motor vehicle data are as at 31 October. Population data are as at 30 June.

Source: Estimated Resident Population (Cat. no. 3201.0)

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ESTIMATED AVERAGE AGE OF THE VEHICLE FLEET(a)(b)—at 31 October

TYPE OF VEHICLE	1997	1998	1999
	years	years	years
Passenger vehicles	10.5	10.4	10.3
Campervans	17.6	18.1	18.4
Light commercial vehicles	11.4	11.5	11.4
Rigid trucks with GVM 4.5 tonnes or less	12.5	12.5	12.7
Rigid trucks with GVM greater than 4.5 tonnes	15.0	15.3	15.4
Articulated trucks	11.5	11.6	11.6
Non-freight carrying trucks	13.8	14.3	14.6
Buses	9.1	9.3	9.5
Motor cycles	10.2	10.2	10.1
Total	10.7	10.7	10.6

(a) For more details on calculation of average age refer to the Glossary.

(b) Excludes plant and equipment, caravans and trailers.

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ESTIMATED AVERAGE AGE OF THE VEHICLE FLEET(a)(b), State/Territory

TYPE OF VEHICLE	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
	years	years	years	years	years	years	years	years	years
Passenger vehicles	9.2	10.8	10.2	11.9	10.5	12.1	8.9	10.1	10.3
Campervans	17.1	19.2	16.3	18.8	20.2	18.9	18.9	18.4	18.4
Light commercial vehicles	10.4	12.4	11.0	12.6	11.7	13.1	9.8	10.9	11.4
Rigid trucks with GVM 4.5 tonnes or less	11.2	14.3	12.6	14.6	13.7	16.7	7.1	11.9	12.7
Rigid trucks with GVM greater than 4.5 tonnes	13.8	16.8	14.3	17.2	16.9	16.8	12.4	11.0	15.4
Articulated trucks	11.4	11.8	11.3	10.8	13.1	11.0	11.6	7.9	11.6
Non-freight carrying trucks	14.0	15.3	11.8	13.8	16.8	16.8	11.0	16.6	14.6
Buses	9.2	10.4	9.8	11.3	8.0	13.7	6.5	8.9	9.5
Motor cycles	9.2	9.9	10.6	(c)9.7	11.6	10.3	8.4	9.4	10.1
Total	9.5	11.2	10.5	12.1	11.0	12.5	9.2	10.1	10.6

(a) For more details on calculation of average age refer to the Glossary.

(b) Excludes plant and equipment, caravans and trailers.

(c) Year of manufacture is frequently not reported for South Australian motor cycles.

MOTOR VEHICLES ON REGISTER, By Fuel Type—At 31 October

TYPE OF VEHICLE	PETROL			Diesel	LPG/ Dual fuel	Other/ not stated	Total
	Leaded	Unleaded	Total				
1997							
Passenger vehicles	3 619 161	5 234 764	8 853 925	198 615	152 912	784	9 206 236
Campervans	20 135	3 472	23 607	8 435	1 156	93	33 291
Light commercial vehicles	643 190	604 636	1 247 826	330 755	53 252	386	1 632 219
Rigid trucks with GVM 4.5 tonnes and less	20 953	4 103	25 056	45 254	1 772	49	72 131
Rigid trucks with GVM greater than 4.5 tonnes	52 824	6 484	56 308	211 216	2 271	486	270 281
Articulated trucks	1 746	670	2 416	56 844	22	10	59 292
Non-freight carrying trucks	5 524	2 894	8 418	7 606	635	40	16 699
Buses	5 255	8 999	14 254	45 965	912	12	61 143
Motor cycles	135 904	177 146	313 050	—	—	51	313 101
Total	4 504 692	6 040 168	10 544 860	904 690	212 932	1 911	11 664 393
1998							
Passenger vehicles	3 269 145	5 863 974	9 133 119	213 460	179 293	861	9 526 733
Campervans	19 252	3 752	23 004	9 438	1 373	4	33 819
Light commercial vehicles	598 351	661 852	1 260 203	361 457	64 548	225	1 686 433
Rigid trucks with GVM 4.5 tonnes and less	18 637	3 804	22 441	47 453	1 735	18	71 647
Rigid trucks with GVM greater than 4.5 tonnes	49 515	3 769	53 284	219 877	2 375	30	275 566
Articulated trucks	1 618	763	2 381	59 859	22	12	62 274
Non-freight carrying trucks	5 398	2 932	8 330	8 441	674	13	17 458
Buses	4 692	r9 872	r14 564	r48 458	r1 050	10	r64 082
Motor cycles	126 911	201 920	328 831	—	—	14	328 845
Total	4 093 519	r6 752 638	r10 846 157	r968 443	r251 070	1 187	r12 066 857
1999							
Passenger vehicles	2 857 399	6 402 426	9 259 825	228 504	197 225	715	9 686 269
Campervans	18 120	3 918	22 038	10 124	1 457	3	33 622
Light commercial vehicles	539 801	720 073	1 259 874	389 277	71 872	177	1 721 200
Rigid trucks with GVM 4.5 tonnes and less	17 710	3 964	21 674	49 764	1 817	14	73 269
Rigid trucks with GVM greater than 4.5 tonnes	44 765	3 829	48 594	222 614	2 321	25	273 554
Articulated trucks	1 409	800	2 209	61 053	26	7	63 295
Non-freight carrying trucks	5 164	2 854	8 018	9 001	667	11	17 697
Buses	4 190	10 548	14 738	49 997	1 148	8	65 891
Motor cycles	112 814	220 968	333 782	—	—	—	333 782
Total	3 601 372	7 369 380	10 970 752	1 020 334	276 533	960	12 268 579

— nil or rounded to zero (including null cells)

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MOTOR VEHICLES, Type of Vehicle—Year of Manufacture

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
PASSENGER VEHICLES									
To 1970	42 763	61 410	26 788	23 324	23 501	6 379	860	2 921	187 946
1971–1978	131 160	198 975	103 437	79 427	68 545	25 329	3 011	11 599	621 483
1979–1982	225 980	291 019	186 931	104 345	105 055	32 466	5 561	15 781	967 138
1983–1986	433 275	447 753	284 811	153 664	162 038	45 371	9 775	26 504	1 563 191
1987–1989	374 107	339 689	215 580	105 785	126 895	29 223	7 427	20 016	1 218 722
1990–1991	295 753	229 780	164 980	75 211	87 560	20 333	5 597	16 543	895 757
1992–1993	292 608	218 354	161 106	68 530	98 426	19 718	6 234	16 975	881 951
1994	175 864	123 353	90 536	36 745	54 934	10 604	3 921	8 980	504 937
1995	187 485	132 474	94 366	39 688	56 008	10 739	4 730	9 384	534 874
1996	182 927	136 011	90 026	37 625	56 757	9 988	4 131	8 399	525 864
1997	216 586	154 132	107 267	41 953	63 784	11 967	5 346	10 983	612 018
1998	242 937	172 096	119 161	45 496	69 337	12 670	6 655	13 511	681 863
1999	155 890	138 949	88 867	26 650	45 141	8 037	4 309	8 547	476 390
Not stated	5 811	967	7 215	42	55	43	1	1	14 135
Total	2 963 146	2 644 962	1 741 071	838 485	1 018 036	242 867	67 558	170 144	9 686 269
CAMPERVANS									
To 1970	183	864	252	320	709	197	17	15	2 557
1971–1978	2 131	2 626	1 456	1 763	2 722	1 052	45	214	12 009
1979–1982	1 143	1 200	851	743	982	442	31	95	5 487
1983–1986	1 370	1 023	926	783	1 096	559	25	91	5 873
1987–1989	520	342	410	253	432	209	12	40	2 218
1990–1991	277	222	234	161	227	91	4	16	1 232
1992–1993	237	136	187	105	172	85	6	13	941
1994	151	68	119	46	93	43	4	14	538
1995	124	60	101	40	74	31	2	8	440
1996	98	74	102	72	64	28	2	9	449
1997	97	104	306	68	24	26	2	3	630
1998	83	318	112	73	35	22	2	3	648
1999	65	219	62	84	12	7	1	1	451
Not stated	57	10	76	3	3	—	—	—	149
Total	6 536	7 266	5 194	4 514	6 645	2 792	153	522	33 622
LIGHT COMMERCIAL VEHICLES									
To 1970	7 383	12 563	7 419	3 674	4 944	2 153	235	327	38 698
1971–1978	40 984	55 775	40 528	17 798	26 667	9 390	1 724	1 767	194 633
1979–1982	47 636	49 220	47 023	16 161	25 551	7 505	2 511	1 714	197 321
1983–1986	71 745	70 340	58 609	21 634	31 935	11 225	3 922	2 683	272 093
1987–1989	55 402	45 132	39 513	13 693	23 365	6 688	2 202	1 702	187 697
1990–1991	45 413	27 976	33 664	10 047	15 790	4 873	2 006	1 493	141 262
1992–1993	44 200	27 431	37 601	9 272	19 563	4 785	2 452	1 490	146 794
1994	27 121	16 875	22 258	5 416	11 321	2 726	1 480	962	88 159
1995	26 588	17 336	20 049	5 436	11 028	2 497	1 680	842	85 456
1996	27 109	18 602	20 841	5 982	11 625	2 505	1 691	840	89 195
1997	28 312	18 986	21 490	5 746	11 303	2 320	1 635	1 005	90 797
1998	33 562	21 836	25 412	6 775	11 546	2 600	1 924	1 184	104 839
1999	24 661	19 716	19 955	4 342	7 727	1 694	1 111	829	80 035
Not stated	1 984	207	1 970	14	24	21	1	—	4 221
Total	482 100	401 995	396 332	125 990	212 389	60 982	24 574	16 838	1 721 200

— nil or rounded to zero (including null cells)

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
RIGID TRUCKS WITH GVM 4.5 TONNES AND LESS									
To 1970	452	945	449	211	342	152	3	10	2 564
1971–1978	2 231	3 178	2 027	693	1 200	610	13	84	10 036
1979–1982	2 918	2 159	2 131	487	822	288	8	81	8 894
1983–1986	4 529	2 642	2 539	659	1 138	366	13	110	11 996
1987–1989	4 526	2 119	2 214	487	939	234	47	74	10 640
1990–1991	2 801	1 070	1 261	331	570	123	73	47	6 276
1992–1993	2 383	868	1 328	211	457	93	88	50	5 478
1994	1 348	514	785	97	254	57	26	28	3 109
1995	1 169	547	632	99	301	34	44	27	2 853
1996	919	433	458	87	233	40	24	17	2 211
1997	994	498	510	86	235	35	23	28	2 409
1998	1 435	770	682	152	267	61	46	41	3 454
1999	1 182	817	583	143	194	35	25	26	3 005
Not stated	173	20	149	—	1	1	—	—	344
Total	27 060	16 580	15 748	3 743	6 953	2 129	433	623	73 269

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
RIGID TRUCKS WITH GVM GREATER THAN 4.5 TONNES									
To 1970	4 359	9 078	3 235	2 706	4 383	672	36	12	24 481
1971–1978	11 461	13 471	8 135	4 452	8 654	1 659	289	118	48 239
1979–1982	11 257	9 404	8 726	3 313	5 543	1 263	409	182	40 097
1983–1986	13 986	11 683	9 754	4 206	5 913	1 583	711	366	48 202
1987–1989	10 061	7 696	6 227	2 246	3 970	849	387	260	31 696
1990–1991	5 710	3 868	3 554	1 316	1 906	390	234	132	17 110
1992–1993	4 896	3 139	3 445	877	1 746	270	174	146	14 693
1994	3 079	1 778	1 991	509	1 041	184	107	103	8 792
1995	2 643	1 546	1 698	473	926	182	112	88	7 668
1996	2 417	1 466	1 502	369	979	136	89	80	7 038
1997	2 628	1 865	1 664	477	881	148	112	69	7 844
1998	3 393	2 073	2 120	512	1 050	156	129	71	9 504
1999	2 170	1 750	1 453	374	647	97	76	53	6 620
Not stated	741	72	725	3	8	11	10	—	1 570
Total	78 801	68 889	54 229	21 833	37 647	7 600	2 875	1 680	273 554

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
ARTICULATED TRUCKS									
To 1970	458	576	268	72	188	17	11	—	1 590
1971–1978	2 184	2 795	1 661	641	1 246	152	90	7	8 776
1979–1982	1 715	1 999	1 585	671	1 213	153	118	21	7 475
1983–1986	1 957	2 189	1 593	821	1 208	260	132	22	8 182
1987–1989	1 933	2 222	1 477	814	1 069	230	108	37	7 890
1990–1991	1 036	891	739	473	461	123	48	15	3 786
1992–1993	1 088	1 169	867	400	380	97	44	24	4 069
1994	1 133	1 082	823	400	332	74	39	21	3 904
1995	1 044	1 087	696	360	313	80	50	11	3 641
1996	847	823	653	284	325	58	51	20	3 061
1997	937	995	783	343	324	80	48	22	3 532
1998	1 228	1 290	923	413	380	110	43	31	4 418
1999	600	991	639	237	200	66	32	15	2 780
Not stated	118	12	57	3	—	1	—	—	191
Total	16 278	18 121	12 764	5 932	7 639	1 501	814	246	63 295

— nil or rounded to zero (including null cells)

MOTOR VEHICLES, Type of Vehicle—Year of Manufacture *continued*

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
NON-FREIGHT CARRYING TRUCKS									
To 1970	164	622	91	139	453	99	2	13	1 583
1971–1978	586	785	343	269	528	219	17	21	2 768
1979–1982	451	603	417	194	336	115	22	7	2 145
1983–1986	497	1 032	393	259	331	119	18	13	2 662
1987–1989	283	826	278	258	215	78	21	10	1 969
1990–1991	193	435	263	210	159	60	10	3	1 333
1992–1993	209	344	250	142	179	54	19	5	1 202
1994	147	85	118	75	71	32	7	2	537
1995	177	186	99	78	77	39	3	2	661
1996	144	254	186	97	105	34	11	5	836
1997	116	169	189	111	145	21	13	6	770
1998	137	204	150	42	124	26	12	1	696
1999	87	150	127	28	57	3	3	1	456
Not stated	39	9	25	3	—	3	—	—	79
Total	3 230	5 704	2 929	1 905	2 780	902	158	89	17 697
BUSES									
To 1970	109	228	59	57	83	105	1	5	647
1971–1978	809	867	1 053	438	472	376	37	37	4 089
1979–1982	1 316	1 438	1 391	448	395	263	100	41	5 392
1983–1986	1 870	2 752	1 755	654	695	336	195	90	8 347
1987–1989	2 153	2 103	1 811	507	1 114	306	300	251	8 545
1990–1991	2 137	1 376	1 407	337	1 268	224	323	166	7 238
1992–1993	2 316	1 471	1 688	321	1 527	213	414	114	8 064
1994	1 088	880	940	239	867	90	283	50	4 437
1995	1 163	890	994	200	893	116	254	42	4 552
1996	941	754	922	277	801	59	271	41	4 066
1997	912	794	799	187	615	54	299	62	3 722
1998	1 142	805	796	222	704	54	300	72	4 095
1999	500	656	523	118	451	30	185	40	2 503
Not stated	172	7	10	—	1	—	4	—	194
Total	16 628	15 021	14 148	4 005	9 886	2 226	2 966	1 011	65 891
TOTAL MOTOR VEHICLES (EXCL. MOTOR CYCLES)									
To 1970	55 871	86 286	38 561	30 503	34 603	9 774	1 165	3 303	260 066
1971–1978	191 546	278 472	158 640	105 481	110 034	38 787	5 226	13 847	902 033
1979–1982	292 416	357 042	249 055	126 362	139 897	42 495	8 760	17 922	1 233 949
1983–1986	529 229	539 414	360 380	182 680	204 354	59 819	14 791	29 879	1 920 546
1987–1989	448 985	400 129	267 510	124 043	157 999	37 817	10 504	22 390	1 469 377
1990–1991	353 320	265 618	206 102	88 086	107 941	26 217	8 295	18 415	1 073 994
1992–1993	347 937	252 912	206 472	79 858	122 450	25 315	9 431	18 817	1 063 192
1994	209 931	144 635	117 570	43 527	68 913	13 810	5 867	10 160	614 413
1995	220 393	154 126	118 635	46 374	69 620	13 718	6 875	10 404	640 145
1996	215 402	158 417	114 690	44 793	70 889	12 848	6 270	9 411	632 720
1997	250 582	177 543	133 008	48 971	77 311	14 651	7 478	12 178	721 722
1998	283 917	199 392	149 356	53 685	83 443	15 699	9 111	14 914	809 517
1999	185 155	163 248	112 209	31 976	54 429	9 969	5 742	9 512	572 240
Not stated	9 095	1 304	10 227	68	92	80	16	1	20 883
Total	3 593 779	3 178 538	2 242 415	1 006 407	1 301 975	320 999	99 531	191 153	11 934 797

— nil or rounded to zero (including null cells)

PASSENGER VEHICLES ON REGISTER—At 31 October

MAKE OF VEHICLE	1997	1998	1999
BMW	89 012	97 269	104 770
Chrysler	124 544	106 949	89 284
Daewoo	38 317	61 861	81 681
Daihatsu	124 898	130 934	133 558
Ford	2 052 586	2 075 251	2 070 480
Holden	1 879 949	1 910 794	1 911 829
Honda	227 790	246 508	264 292
Hyundai	217 972	278 263	320 671
Jaguar	23 894	24 128	24 181
Land Rover	24 612	29 991	35 450
Mazda	435 055	436 024	428 141
Mercedes-Benz	96 823	103 526	110 073
Mitsubishi	885 348	934 072	951 338
Nissan (incl. Datsun)	745 622	739 754	727 594
Peugeot	33 531	35 308	35 630
Saab	30 668	33 335	35 369
Subaru	139 996	156 780	175 332
Suzuki	97 737	105 508	110 385
Toyota	1 522 702	1 590 833	1 644 218
Volkswagen	64 802	65 831	65 485
Volvo	94 323	94 127	91 526
Other/not stated	256 055	269 687	274 982
Total	9 206 236	9 526 733	9 686 269

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PASSENGER VEHICLES ON REGISTER, By Year of Manufacture

MAKE OF VEHICLE	1978 and earlier	1979 to 1982	1983 to 1986	1987 to 1989	1990 to 1993	1994 to 1997	1998	1999	Not stated	Total
BMW	5 469	7 113	14 869	10 207	18 287	31 932	9 224	7 534	135	104 770
Chrysler	53 146	27 996	108	20	15	4 226	1 993	1 287	493	89 284
Daewoo	—	—	—	2	8	44 030	21 718	15 923	—	81 681
Daihatsu	177	4 400	13 341	11 980	56 928	34 861	7 609	4 169	93	133 558
Ford	133 955	201 115	397 008	317 428	390 465	443 671	109 217	75 063	2 558	2 070 480
Holden	219 921	230 434	290 269	236 632	311 626	407 265	123 151	89 342	3 189	1 911 829
Honda	11 245	23 836	31 001	36 710	49 914	63 565	25 758	22 061	202	264 292
Hyundai	10	2	1 822	14 980	44 660	166 505	56 555	36 106	31	320 671
Jaguar	10 570	2 411	3 827	3 053	1 051	1 713	601	824	131	24 181
Land Rover	1 664	475	977	199	4 995	17 173	5 450	4 441	76	35 450
Mazda	31 283	71 734	87 467	34 628	80 657	86 604	20 563	14 829	376	428 141
Mercedes-Benz	27 875	13 825	15 444	9 995	10 265	17 652	7 844	6 814	359	110 073
Mitsubishi	1 720	77 370	168 628	146 879	210 423	237 504	71 199	37 099	516	951 338
Nissan (incl. Datsun)	61 663	95 567	141 157	126 962	150 546	82 104	36 763	31 755	1 077	727 594
Peugot	5 921	4 407	5 197	1 961	2 951	10 468	2 990	1 667	68	35 630
Saab	676	1 014	3 992	5 190	6 874	12 278	3 060	2 254	31	35 369
Subaru	1 104	13 084	29 379	11 352	41 270	38 867	20 609	19 512	155	175 332
Suzuki	154	3 039	12 438	9 166	32 817	39 465	8 364	4 893	49	110 385
Toyota	90 917	148 796	302 261	214 410	335 898	349 688	121 768	78 846	1 634	1 644 218
Volkswagen	39 876	2 279	771	632	1 479	10 248	5 500	4 043	657	65 485
Volvo	15 761	19 080	18 487	9 964	8 679	13 492	3 419	2 521	123	91 526
Other/ not stated	96 322	19 161	24 748	16 372	17 900	64 382	18 508	15 407	2 182	274 982
Total	809 429	967 138	1 563 191	1 218 722	1 777 708	2 177 693	681 863	476 390	14 135	9 686 269

— nil or rounded to zero (including null cells)

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CAMPERVANS ON REGISTER—At 31 October

MAKE OF VEHICLE	1997	1998	1999
Bedford	2 226	2 220	2 202
Ford	2 316	2 467	2 417
Mazda	2 617	2 836	2 939
Mitsubishi	867	887	882
Nissan (incl. Datsun)	3 674	3 623	3 504
Toyota	10 862	11 216	11 318
Volkswagen	7 152	6 865	6 399
Other/not stated	3 577	3 705	3 961
Total	33 291	33 819	33 622

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CAMPERVANS ON REGISTER, By Year of Manufacture

<i>MAKE OF VEHICLE</i>	<i>1978 and earlier</i>	<i>1979 to 1982</i>	<i>1983 to 1986</i>	<i>1987 to 1989</i>	<i>1990 to 1993</i>	<i>1994 to 1997</i>	<i>1998</i>	<i>1999</i>	<i>Not stated</i>	<i>Total</i>
Bedford	2 035	133	—	—	—	—	—	—	34	2 202
Ford	826	223	290	100	266	587	83	33	9	2 417
Mazda	254	379	924	365	438	394	125	56	4	2 939
Mitsubishi	5	164	247	162	170	122	7	1	4	882
Nissan (incl. Datsun)	920	711	1 302	408	140	16	—	—	7	3 504
Toyota	2 692	3 249	2 680	920	870	498	194	177	38	11 318
Volkswagen	5 566	296	169	138	113	86	12	4	15	6 399
Other/ not stated	2 268	332	261	125	176	354	227	180	38	3 961
Total	14 566	5 487	5 873	2 218	2 173	2 057	648	451	149	33 622

— nil or rounded to zero (including null cells)

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LIGHT COMMERCIAL VEHICLES ON REGISTER—At 31 October

<i>MAKE OF VEHICLE</i>	<i>1997</i>	<i>1998</i>	<i>1999</i>
Chrysler	7 188	6 387	5 535
Daihatsu	22 531	20 847	18 718
Ford	306 810	315 496	319 524
Holden	307 756	322 679	335 382
Land Rover	19 625	18 982	17 780
Leyland	5 269	4 906	4 385
Mazda	82 215	84 318	86 814
Mitsubishi	129 703	139 854	145 068
Nissan (incl. Datsun)	172 362	174 663	175 079
Subaru	21 466	21 115	20 485
Suzuki	36 953	33 853	30 259
Toyota	466 840	491 047	511 024
Volkswagen	19 119	20 343	20 272
Other/not stated	34 382	31 943	30 875
Total	1 632 219	1 686 433	1 721 200

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LIGHT COMMERCIAL VEHICLES ON REGISTER—By Year of Manufacture

MAKE OF VEHICLE	1978 and earlier	1979 to 1982	1983 to 1986	1987 to 1989	1990 to 1993	1994 to 1997	1998	1999	Not stated	Total
Chrysler	4 732	744	2	—	—	—	—	—	57	5 535
Daihatsu	2 044	4 966	6 454	3 379	1 122	580	6	107	60	18 718
Ford	37 765	33 544	49 129	47 967	47 801	69 619	18 448	14 564	687	319 524
Holden	93 275	44 062	24 746	10 998	44 552	71 982	24 814	20 104	849	335 382
Land Rover	12 031	1 745	298	107	448	2 355	292	213	291	17 780
Leyland	2 711	1 616	39	5	1	—	—	—	13	4 385
Mazda	5 084	8 276	18 190	7 398	15 309	21 988	5 435	5 010	124	86 814
Mitsubishi	34	10 470	21 959	20 135	39 220	35 619	10 533	6 981	117	145 068
Nissan (incl. Datsun)	14 680	25 567	41 361	29 211	26 843	22 576	7 693	6 821	327	175 079
Subaru	120	917	3 618	6 539	9 217	21	—	—	53	20 485
Suzuki	1 871	7 885	12 531	3 836	1 433	2 059	271	304	69	30 259
Toyota	37 035	52 821	88 595	56 940	99 090	117 823	33 673	24 007	1 040	511 024
Volkswagen	8 077	581	447	799	1 387	6 522	1 776	603	80	20 272
Other/ not stated	13 872	4 127	4 724	383	1 633	2 463	1 898	1 321	454	30 875
Total	233 331	197 321	272 093	187 697	288 056	353 607	104 839	80 035	4 221	1 721 200

— nil or rounded to zero (including null cells)

14

RIGID TRUCKS WITH GVM 4.5 TONNES AND LESS—At 31 October

MAKE OF VEHICLE	1997	1998	1999
Chevrolet	1 791	1 796	1 852
Daihatsu	10 835	10 677	10 205
Ford	12 767	11 894	11 836
Isuzu	8 697	9 828	11 246
Mazda	5 376	5 467	5 486
Mitsubishi	6 994	7 846	8 634
Nissan (incl. Datsun)	2 039	1 847	2 008
Toyota	19 362	18 749	17 654
Other/not stated	4 270	3 543	4 348
Total	72 131	71 647	73 269

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RIGID TRUCKS 4.5 TONNES AND LESS ON REGISTER, By Year of Manufacture

MAKE OF VEHICLE	1978 and earlier	1979 to 1982	1983 to 1986	1987 to 1989	1990 to 1993	1994 to 1997	1998	1999	Not stated	Total
Chevrolet	1 056	513	27	44	66	104	15	9	18	1 852
Daihatsu	1 117	2 203	2 626	1 657	1 295	933	137	197	40	10 205
Ford	2 534	1 793	2 566	1 544	1 696	1 406	204	21	72	11 836
Isuzu	51	207	833	1 915	2 591	3 224	1 185	1 223	17	11 246
Mazda	570	547	901	1 028	1 109	994	198	129	10	5 486
Mitsubishi	12	141	838	1 619	2 369	2 334	712	596	13	8 634
Nissan (incl. Datsun)	726	351	531	245	137	—	—	—	18	2 008
Toyota	3 967	3 035	3 646	2 579	2 476	1 221	419	243	68	17 654
Other/ not stated	2 567	104	28	9	15	366	584	587	88	4 348
Total	12 600	8 894	11 996	10 640	11 754	10 582	3 454	3 005	344	73 269

— nil or rounded to zero (including null cells)

16

RIGID TRUCKS WITH GVM GREATER THAN 4.5 TONNES—At 31 October

MAKE OF VEHICLE	1997	1998	1999
Bedford	15 307	14 279	12 819
Dodge	11 374	10 788	9 818
Ford	30 563	30 296	28 861
Hino	21 388	23 011	24 630
International	47 563	47 628	45 694
Isuzu	43 643	46 599	48 787
Mazda	10 613	10 503	10 369
Mercedes-Benz	4 888	4 941	4 798
Mitsubishi	28 932	30 216	31 514
Nissan UD (diesel)	8 676	9 483	10 040
Toyota	13 251	12 929	12 115
Volvo	7 614	8 107	8 168
Other/not stated	26 469	26 786	25 941
Total	270 281	275 566	273 554

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RIGID TRUCKS WITH GVM GREATER THAN 4.5 TONNES, By Year Of Manufacture

MAKE OF VEHICLE	1978 and earlier	1979 to 1982	1983 to 1986	1987 to 1989	1990 to 1993	1994 to 1997	1998	1999	Not stated	Total
Bedford	11 895	701	1	—	—	—	—	2	220	12 819
Dodge	9 151	562	—	—	1	12	2	2	88	9 818
Ford	9 518	5 508	5 422	3 330	2 535	1 922	366	40	220	28 861
Hino	915	3 076	6 306	3 603	4 161	3 798	1 400	1 297	74	24 630
International	23 084	8 860	3 874	2 965	2 344	3 148	630	349	440	45 694
Isuzu	1 625	6 206	10 905	6 999	8 791	8 891	2 991	2 264	115	48 787
Mazda	984	798	3 092	1 875	1 911	1 250	253	185	21	10 369
Mercedes-Benz	1 217	613	1 206	597	765	352	10	15	23	4 798
Mitsubishi	95	3 694	8 008	5 631	5 864	5 344	1 728	1 083	67	31 514
Nissan UD (diesel)	656	1 077	1 840	1 596	1 565	1 913	834	527	32	10 040
Toyota	2 418	2 432	2 597	1 828	1 460	1 037	175	105	63	12 115
Volvo	1 440	1 443	1 417	1 102	1 145	1 119	321	167	14	8 168
Other/ not stated	9 722	5 127	3 534	2 170	1 261	2 556	794	584	193	25 941
Total	72 720	40 097	48 202	31 696	31 803	31 342	9 504	6 620	1 570	273 554

— nil or rounded to zero (including null cells)

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RIGID TRUCKS ON REGISTER, By Gross Vehicle Mass (GVM)

MAKE OF VEHICLE	GVM (TONNES)								Total
	Over 3.5-4.5	Over 4.5-6	Over 6-8	Over 8-10	Over 10-12	Over 12-16	Over 16-20	Greater than 20	
Bedford	585	1 682	2 422	3 379	2 716	2 267	157	185	13 393
Daihatsu	10 206	3 700	57	—	—	—	—	—	13 963
Dodge	927	1 823	1 974	1 486	2 878	1 270	278	106	10 742
Ford	11 844	5 800	6 968	2 237	3 135	4 384	240	6 089	40 697
Hino	—	28	1 151	7 550	4 209	9 526	338	1 829	24 631
International	1 366	1 327	3 304	4 839	6 040	13 825	2 563	13 750	47 014
Isuzu	11 251	6 097	9 804	15 531	4 107	10 615	134	2 494	60 033
Mazda	5 530	4 193	6 132	—	—	—	—	—	15 855
Mercedes-Benz	953	13	86	184	241	1 464	180	2 630	5 751
Mitsubishi	8 634	7 579	2 282	6 955	2 609	9 256	41	2 792	40 148
Nissan (incl. Datsun)	2 008	965	158	—	—	—	—	—	3 131
Nissan UD (diesel)	—	—	—	3 264	690	3 060	105	2 921	10 040
Toyota	17 684	7 690	2 732	123	1 187	353	—	—	29 769
Volvo	—	—	—	—	—	822	333	7 013	8 168
Other/ not stated	2 429	1 173	1 123	1 774	1 772	2 933	787	11 497	23 488
Total	73 417	42 070	38 193	47 322	29 584	59 775	5 156	51 306	346 823

— nil or rounded to zero (including null cells)

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ARTICULATED TRUCKS ON REGISTER—At 31 October

MAKE OF VEHICLE	1997	1998	1999
Atkinson	864	843	786
Ford	6 063	6 349	6 180
Freightliner	1 580	2 212	2 489
International	9 580	9 849	9 870
Kenworth	10 962	11 992	12 523
Mack	7 341	7 786	8 009
Mercedes-Benz	4 338	4 233	4 009
Mitsubishi	695	708	738
Nissan UD (diesel)	1 568	1 522	1 501
Scania	3 860	3 923	4 061
Volvo	6 510	6 627	6 767
Western Star	1 995	2 329	2 591
White	1 231	1 211	1 151
Other/not stated	2 705	2 690	2 620
Total	59 292	62 274	63 295

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ARTICULATED TRUCKS ON REGISTER, By Year of Manufacture

MAKE OF VEHICLE	1978 and earlier	1979 to 1982	1983 to 1986	1987 to 1989	1990 to 1993	1994 to 1997	1998	1999	Not stated	Total
Atkinson	401	164	180	39	—	—	—	—	2	786
Ford	582	703	1 006	1 081	875	1 530	363	30	10	6 180
Freightliner	—	—	—	61	403	1 192	617	216	—	2 489
International	1 856	1 593	1 204	1 074	1 016	2 080	680	321	46	9 870
Kenworth	1 676	1 497	1 528	1 585	1 519	3 010	990	700	18	12 523
Mack	1 130	884	894	1 094	909	2 117	576	379	26	8 009
Mercedes-Benz	1 615	401	716	435	409	315	54	39	25	4 009
Mitsubishi	5	25	223	201	131	91	29	33	—	738
Nissan UD (diesel)	273	261	300	208	197	163	55	43	1	1 501
Scania	256	336	808	681	663	848	260	202	7	4 061
Volvo	879	746	832	959	1 209	1 409	347	362	24	6 767
Western Star	—	—	141	283	398	1 170	359	238	2	2 591
White	556	587	—	—	—	—	—	—	8	1 151
Other/ not stated	1 137	278	350	189	126	213	88	217	22	2 620
Total	10 366	7 475	8 182	7 890	7 855	14 138	4 418	2 780	191	63 295

— nil or rounded to zero (including null cells)

NON-FREIGHT CARRYING TRUCKS ON REGISTER—At 31 October

MAKE OF VEHICLE	1997	1998	1999
Bedford	500	512	516
Ford	4 799	4 660	4 551
Hino	1 382	1 555	1 655
Holden	540	545	537
International	2 623	2 695	2 621
Isuzu	1 817	1 904	2 092
Mitsubishi	506	570	594
Toyota	1 467	1 613	1 627
Other/not stated	3 065	3 404	3 504
Total	16 699	17 458	17 697

NON-FREIGHT CARRYING TRUCKS ON REGISTER, By Year of Manufacture

MAKE OF VEHICLE	1978 and earlier	1979 to 1982	1983 to 1986	1987 to 1989	1990 to 1993	1994 to 1997	1998	1999	Not stated	Total
Bedford	449	60	—	—	—	—	—	—	7	516
Ford	1 021	731	765	418	884	542	104	71	15	4 551
Hino	6	35	345	342	401	376	93	53	4	1 655
Holden	135	60	19	8	15	205	54	38	3	537
International	1 301	579	413	130	79	92	12	7	8	2 621
Isuzu	25	116	336	495	357	566	85	106	6	2 092
Mitsubishi	—	42	122	94	131	148	36	20	1	594
Toyota	139	178	173	166	320	455	138	53	5	1 627
Other/ not stated	1 275	344	489	316	348	420	174	108	30	3 504
Total	4 351	2 145	2 662	1 969	2 535	2 804	696	456	79	17 697

— nil or rounded to zero (including null cells)

BUSES ON REGISTER—At 31 October

MAKE OF VEHICLE	1997	1998	1999
Bedford	2 209	1 989	1 754
Denning	1 066	1 042	1 001
Hino	3 077	r3 174	3 185
Leyland	1 691	1 538	1 406
MAN	1 825	1 920	1 929
Mazda	2 459	2 323	2 189
Mercedes-Benz	5 237	5 473	5 796
Nissan (incl. Datsun)	3 042	r2 969	2 811
Scania	1 159	1 295	1 400
Toyota	32 143	35 062	36 902
Volvo	2 683	2 744	2 838
Other/not stated	4 552	r4 553	4 680
Total	61 143	r64 082	65 891

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BUSES ON REGISTER, By Year of Manufacture

MAKE OF VEHICLE	1978 and earlier	1979 to 1982	1983 to 1986	1987 to 1989	1990 to 1993	1994 to 1997	1998	1999	Not stated	Total
Bedford	1 266	476	—	—	—	—	—	—	12	1 754
Denning	173	237	282	200	75	22	—	—	12	1 001
Hino	237	427	594	437	669	606	116	71	28	3 185
Leyland	641	298	276	121	30	2	10	2	26	1 406
MAN	125	367	297	276	213	557	73	20	1	1 929
Mazda	70	228	690	432	584	179	—	—	6	2 189
Mercedes-Benz	497	835	1 153	794	713	1 307	290	180	27	5 796
Nissan (incl. Datsun)	106	145	668	542	743	471	95	40	1	2 811
Scania	—	—	147	185	312	545	125	78	8	1 400
Toyota	489	1 419	2 915	4 258	10 796	12 094	3 056	1 834	41	36 902
Volvo	501	406	517	388	414	355	165	83	9	2 838
Other/ not stated	631	554	808	912	753	639	165	195	23	4 680
Total	4 736	5 392	8 347	8 545	15 302	16 777	4 095	2 503	194	65 891

— nil or rounded to zero (including null cells)

BUSES ON REGISTER, By Size of Bus(a)

MAKE OF VEHICLE	Small	Medium	Large	Total
Bedford	16	1 460	278	1 754
Denning	—	23	978	1 001
Hino	—	1 314	1 871	3 185
Leyland	—	258	1 148	1 406
MAN	—	291	1 638	1 929
Mazda	2 139	50	—	2 189
Mercedes-Benz	18	728	5 050	5 796
Nissan (incl. Datsun)	2 273	538	—	2 811
Scania	—	—	1 400	1 400
Toyota	35 082	1 820	—	36 902
Volvo	—	123	2 715	2 838
Other/not stated	555	1 116	3 009	4 680
Total	40 083	7 721	18 087	65 891

— nil or rounded to zero (including null cells)

(a) For definition of 'size of bus' see the Glossary.

MOTOR CYCLES ON REGISTER, By Year of Manufacture

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
To 1970	1 296	1 907	1 599	891	1 873	145	54	71	7 836
1971-1978	4 312	5 076	4 974	878	3 253	519	123	265	19 400
1979-1982	9 077	9 913	9 317	1 098	5 350	987	283	716	36 741
1983-1986	11 641	13 374	10 540	1 236	6 589	1 530	456	913	46 279
1987-1989	7 246	7 418	7 387	876	4 460	762	333	528	29 010
1990-1991	6 753	6 664	6 178	1 560	3 447	640	336	473	26 051
1992	6 691	6 727	6 216	1 899	3 408	738	329	447	26 455
1993	4 675	3 858	3 606	1 036	2 034	420	214	270	16 113
1994	6 254	4 980	4 411	1 419	2 384	492	278	319	20 537
1995	6 667	5 711	4 438	1 408	2 561	619	263	427	22 094
1996	7 703	6 921	4 568	1 577	2 839	672	326	574	25 180
1997	9 075	8 005	6 055	1 933	2 990	702	415	626	29 801
1998	3 943	7 011	3 207	888	1 646	343	233	251	17 522
Not stated	221	389	723	9 430	—	—	—	—	10 763
Total	85 554	87 954	73 219	26 129	42 834	8 569	3 643	5 880	333 782

— nil or rounded to zero (including null cells)

MOTOR CYCLES ON REGISTER—At 31 October

MAKE OF VEHICLE	1997	1998	1999
BMW	13 174	13 865	14 046
Ducati	6 426	7 303	7 763
Harley Davidson	31 091	33 670	35 151
Honda	89 088	93 011	94 169
Kawasaki	43 237	44 916	44 844
Suzuki	45 354	46 274	45 238
Triumph	5 997	6 535	6 926
Yamaha	65 388	67 883	68 963
Other/not stated	13 346	15 388	16 682
Total	313 101	328 845	333 782

MOTOR CYCLES ON REGISTER—Year of Manufacture

MAKE OF VEHICLE	1978 and earlier	1979 to 1982	1983 to 1986	1987 to 1989	1990 to 1993	1994 to 1997	1998	1999	Not stated	Total
BMW	1 536	1 291	3 646	1 139	1 810	2 959	731	536	398	14 046
Ducati	1 156	1 078	611	332	768	2 332	1 014	269	203	7 763
Harley Davidson	4 136	1 913	2 562	2 786	7 311	11 155	2 730	1 912	646	35 151
Honda	5 657	11 376	14 002	7 719	12 573	25 195	9 221	5 258	3 168	94 169
Kawasaki	2 082	3 959	6 789	5 180	9 328	10 987	3 252	1 974	1 293	44 844
Suzuki	1 649	7 456	8 074	4 401	8 253	8 733	3 565	1 500	1 607	45 238
Triumph	2 986	477	70	28	267	1 777	615	489	217	6 926
Yamaha	2 851	8 374	9 519	6 754	11 124	16 851	6 557	4 189	2 744	68 963
Other/ not stated	5 183	817	1 006	671	1 072	3 935	2 116	1 395	487	16 682
Total	27 236	36 741	46 279	29 010	52 506	83 924	29 801	17 522	10 763	333 782

EXPLANATORY NOTES

MOTOR VEHICLE CENSUS

- 1** This publication contains statistics relating to vehicles which were on register at 31 October 1999 with a motor vehicle registration authority. Similar statistics have been published periodically since the first Motor Vehicle Census was conducted in 1971.
- 2** Vehicles on register are defined as those vehicles for which registration was effective for a period including the date of the census, or had registration expire less than one month before.
- 3** Considerable steps have been taken in recent years, both by motor registries and the ABS, to improve data quality through the introduction of improved processing and classification systems and the incorporation of additional edits, based on make and model. While these have improved data accuracy, care needs to be taken when comparing data from different State and Territory registry systems.
- 4** For vehicles manufactured during or after 1990, the statistics in this publication are based on procedures using the Vehicle Identification Number (VIN), adopted by State and Territory motor registration authorities. The VIN system allows accurate identification of the make and model of a vehicle, which can then be used to better identify the vehicle type. Vehicles manufactured earlier than 1990 generally do not have a VIN. Therefore, data for these earlier vehicles are less accurate compared to data for vehicles with a later year of manufacture.
- 5** Motor vehicle registration statistics are derived from data made available by various State and Territory motor vehicle registration authorities and reflect the information as recorded in registration documents.
- 6** The number of vehicles that have been deregistered and the attrition rate per state have been detailed in the following table.

ESTIMATED ATTRITION BY STATE (a), Census Years

	1997.		1998.		1999.	
	no.	%	no.	%	no.	%
NSW	159 045	4.4	123 596	3.3	268 490	7.0
Vic.	107 375	3.4	140 564	4.3	120 926	3.7
Qld	81 279	3.8	57 168	2.6	52 386	2.3
SA	38 808	3.9	12 929	1.3	45 093	4.3
WA	30 103	2.4	26 731	2.0	58 653	4.3
Tas.	15 563	4.7	18 789	5.6	8 258	2.5
NT	5 011	5.0	5 553	5.0	7 127	6.7
ACT	5 283	2.7	19 100	9.2	11 597	5.7
Aust.	442 467	3.8	404 430	3.3	572 530	4.6

(a) For more details on calculation of attrition rate refer to Glossary.

- 7** The Motor Vehicle Census includes all vehicles registered by State, Territory or government motor vehicle registries for unrestricted use on public roads with following exceptions:
 - recreational vehicles such as trail bikes and sand dune buggies intended for off-road use in most State and Territories (in Victoria and Queensland these vehicles must be registered and are thus included in the statistics);

EXPLANATORY NOTES *continued*

MOTOR VEHICLE CENSUS

continued

- certain vehicles which use public roads but are exempt from normal registration requirements, e.g. fire engines and/or ambulances in certain States and Territories (the extent to which these vehicles are excluded varies between the States and Territories); and
- vehicles registered by the defence forces.

RELATED PUBLICATIONS

8 Data on new motor vehicle registrations are available in the monthly publication *New Motor Vehicle Registrations* (Cat. no. 9301.0). Data on distance and area travelled, freight carried and other uses of motor vehicles are included in *Survey of Motor Vehicle Use, Australia* (Cat. no. 9202.0).

GLOSSARY

Annual percentage change A measure of the percentage change in a variable between one time period and another at an annual rate. It allows for the compounding of an increase or decrease over time. Thus an annual percentage increase of ten per cent results in a figure increasing by 21 per cent over two years. The formula for calculating annual percentage change is:

$$\left[(T2/T1)^{(12/M)} - 1 \right] \times 100$$

where T1 is the value of the data item at the first time point, T2 is the value at the second time point, and M is the number of months between the two time points.

Articulated trucks Motor vehicles constructed primarily for load carrying, consisting of a prime mover having no significant load carrying area, but with a turntable device which can be linked to a trailer.

Attrition rate The estimated proportion of motor vehicles that have been taken off the register since the previous census. The attrition rate is also referred to as the motor vehicle retirement or scrappage rate. The number of registration lapses is calculated by adding the total registrations as at the earlier census to the number of new registrations between the censuses, and subtracting the total registrations as at the later census. The attrition rate measures the number of registration lapses as a percentage of the total potential vehicle fleet, where the potential vehicle fleet is the number of registrations at the first census date plus new registrations between the two censuses. To calculate the annualised attrition rate as a percentage apply the following formula:

$$\left[1 - \left\{ \frac{T2}{(T1+N1)} \right\} \left(\frac{12}{M} \right) \right] \times 100$$

where T1 is the number of registrations at the first time point, N1 is the number of new registrations between the first and second time points, T2 is the number of registrations at the second time point and M is the number of months between the two time points. Note that this formula does not allow for import or export of second hand vehicles.

Aust. The total for all States and Territories.

Average vehicle age The estimated average age of registered motor vehicles in Australia. The age of a vehicle is defined as the number of years since it was first manufactured. The formula allows for the census being run on different days of the year.

For vehicles manufactured in current year Vehicle age = Reference month/24

For vehicles manufactured in previous years Vehicle age = Current year - Year of manufacture + (reference month - 6)/12

The average age is then calculated as the sum of all vehicle ages divided by the total number of vehicles.

Buses Motor vehicles constructed for the carriage of passengers. Included are all motor vehicles with 10 or more seats, including the driver's seat.

Campervans Self-propelled motor vehicles that contain an area primarily used for accommodation. Included are campervans, motor homes, powered caravans and mobile homes.

Caravans Non-powered vehicles that are towed behind another vehicle and which are primarily used for accommodation. Includes rigid and pop-up caravans, but excludes campervans, motor-homes or tent trailers.

Estimated Resident Population (ERP) The official ABS estimate of the Australian population. It is based on results from the Population Census and is updated annually between censuses using

GLOSSARY *continued*

Estimated Resident Population (ERP) <i>continued</i>	demographic statistics. The census count is adjusted for under enumeration and for Australian residents temporarily overseas on census night to obtain ERP figures.
Federal Interstate Registration Scheme (FIRS)	A system for registering articulated trucks and trailers for interstate freight transport. It runs parallel with the National Heavy Vehicle Registration Scheme.
Gross Combination Mass (GCM)	Tare weight (i.e. unladen weight) of the motor vehicle and attached trailers, plus its maximum carrying and towing capacity. GCM is the weight measurement used for trailer towing vehicles such as articulated trucks.
Gross Vehicle Mass (GVM)	Tare weight (i.e. unladen weight) of the motor vehicle, plus its maximum carrying capacity excluding trailers.
Light commercial vehicles	Vehicles primarily constructed for the carriage of goods, and which are less than or equal to 3.5 tonnes GVM. Included are utilities, panel vans, cab-chassis and forward-control load carrying vehicles (whether four-wheel drive or not).
Make	The manufacturer of the motor vehicle, e.g. Ford, Holden, Mitsubishi.
Model	The variant of the make of a motor vehicle, e.g. Falcon, Commodore, Magna.
Motor cycles	Two and three wheeled motor vehicles constructed primarily for the carriage of one or two persons. Included are two and three wheeled mopeds, scooters, motor tricycles and motor cycles with side cars.
National Heavy Vehicle Registration Scheme (NHVRS)	A system of Australia-wide registration charges applying to all rigid and articulated trucks, buses and trailers over 4.5 tonnes GVM. It replaces the previous State charges which differed between State jurisdictions. It has been introduced in all States and Territories.
Non-freight carrying trucks	Specialist motor vehicles or motor vehicles fitted with special purpose equipment, and having little or no goods carrying capacity, e.g. ambulances, mobile cranes, cherry pickers, fire trucks and tow trucks.
Passenger vehicles	Motor vehicles constructed primarily for the carriage of persons and containing up to nine seats (including the driver's seat). Included are cars, station wagons, four-wheel drive passenger vehicles and forward-control passenger vehicles. Excluded are campervans and mobile homes.
Plant and equipment	Self-propelled vehicles (e.g. tractors) custom built to perform a particular function. Included are tractors and fork-lifts registered for normal road use, mobile cranes, drilling rigs, street sweepers, and road construction and mining equipment. Excluded are trucks whose load-carrying area has been fitted with machinery such as fire engines and tow trucks which are included with non-freight carrying trucks, and garbage trucks which are included in rigid trucks.
Population Census	The Population Census is a count of all people in Australia on census night (a specified night, once every five years) except foreign diplomats and their families and foreign crew members on ships. The objective of the Population Census is to measure the number and key characteristics of persons in Australia at a specific date.
Rigid trucks	Motor vehicles exceeding 3.5 tonnes GVM, constructed with a load carrying area. Included are normal rigid trucks with a tow bar, draw bar or other non-articulated coupling on the rear of the vehicle. Rigid trucks are divided into: Rigid trucks with GVM 4.5 tonnes or less Rigid trucks with GVM greater than 4.5 tonnes
Size of bus	Size of bus is based on GVM, registered seating capacity, or tare weight. Small buses are those with GVM of 5 tonnes or less, medium buses have greater than 5 but less than or equal to 12 tonnes GVM, and large buses have greater than

GLOSSARY *continued*

Size of bus <i>continued</i>	12 tonnes GVM. If GVM is not reported, then size is based on registered seating capacity. Small buses have 20 seats or less, medium buses have 21–40 seats, and large buses have 41 or more seats. If neither GVM nor registered seating capacity are reported then size is based on tare weight. Small buses have tare weight up to and including 3.1 tonnes. Medium buses have tare weight between 3.1 and 7 tonnes. Large buses have greater than 7 tonnes tare weight. If GVM, registered seating capacity and tare weight are all not reported then the bus is put into the not stated category.
State/Territory	The State or Territory motor registry at which a vehicle is registered, except for vehicles registered by DAS Fleet which are recorded in the State or Territory of the agency that operates the vehicle.
Tare weight	The unladen weight of a vehicle.
Trailers	Equipment that does not have an engine and is towed behind a vehicle. Included are box trailers, semi (articulated) trailers not registered as part of an articulated combination, boat trailers, horse floats and similar vehicles.

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