

**MOTOR VEHICLE CENSUS
31 OCTOBER 1996**

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- INQUIRIES**
- *for further information about statistics in this publication and the availability of related unpublished statistics, contact Geoff Pegg phone (07) 3222 6119 or facsimile (07) 3222 6334.*
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SUMMARY OF FINDINGS

Note: Because censuses have not been conducted at regular intervals, for ease of comparison, percentage movements have been converted to an annualised basis (see Glossary for further details).

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 1996 was 10,941,747. On a per year basis this represents a net increase of 1.9% since the previous census was taken at 31 May 1995. The annual growth rate over the last 17 months was 0.3 percentage points less than that between 30 June 1993 and 31 May 1995 (2.2% per year).

Total registrations by State/Territory

The number of registrations increased in all States and Territories, although the rate of increase varied. Percentage increases were highest in the Northern Territory (4.7%) and Western Australia (3.0%). Victoria (0.5%) and Tasmania (1.2%) had the lowest rates of increase.

New registrations and the attrition rate

The lower growth rate in total registrations between the 1995 and 1996 censuses compared with the growth between 1993 and 1995 censuses was a result of a higher attrition rate (ie the proportion of all vehicles whose registration has lapsed over the period). The attrition rates for the respective periods were 3.3% per year between 30 June 1993 and 31 May 1995 and 3.8% per year from 31 May 1995 to 31 October 1996. The attrition rate has risen from the period 30 September 1991 to 30 June 1993 when it was 2.9% per year. See the Glossary for details.

The drop in growth rate would have been greater if not for an increase in the monthly rate of new registrations. Between the 1993 and 1995 censuses, there were 1,153,358 new registrations (approximately 50,146 per month). This compares to 912,563 (or 53,680 per month) between the 1995 and 1996 censuses. See *New Motor Vehicle Registrations, Australia* (Cat. no. 9301.0) for monthly details of new registrations.

During the 1993-95 period, 717,793 vehicles had registration lapses (31,208 per month), compared with 621,718 between 1995 and 1996 (36,572 per month).

TYPE OF VEHICLE

The number of registered passenger vehicles in Australia increased by 1.9% per year between May 1995 and October 1996, a similar percentage to the total vehicle fleet. Increases occurred in each State and Territory and ranged from 4.2% in the Northern Territory to 0.6% in Victoria.

The vehicle type which increased the most in annual percentage terms was buses (8.0%). Increases in buses occurred in all States and Territories, except Victoria where the number of buses declined by 2.5%. Increases were particularly large in Queensland and the Northern Territory (22.3% and 13.8% respectively). The increase in numbers of buses in Queensland was partially a result of improved recording by the

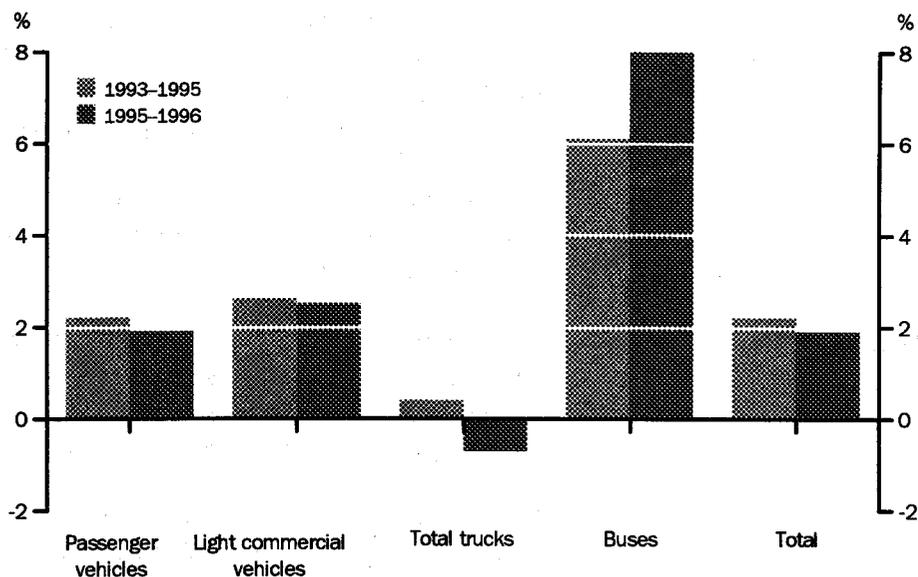
TYPE OF VEHICLE *continued*

motor vehicle registry which has resulted in a re-classification of some vehicles from the passenger vehicle and light commercial vehicle categories to the correct bus category. Almost all the growth in the Australian bus fleet has been in the 'small bus' category.

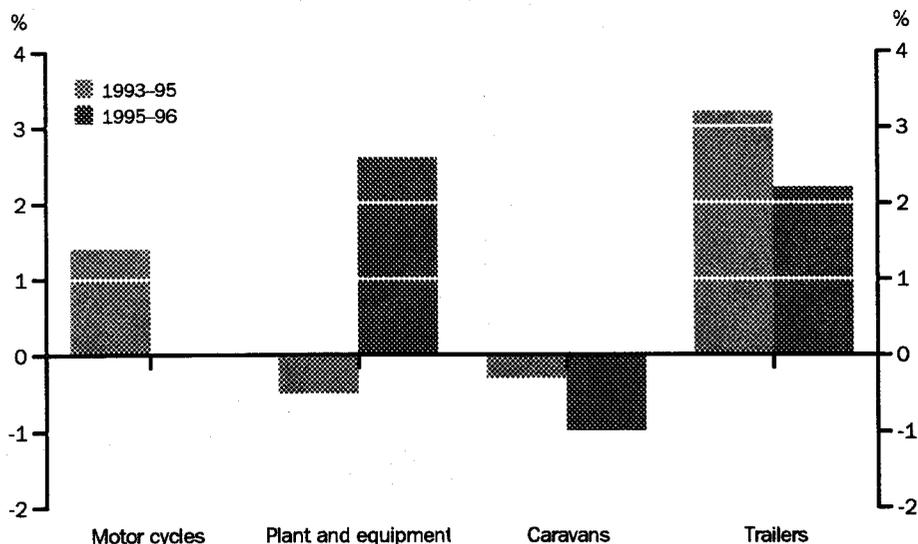
The number of light commercial vehicles in Australia increased by 2.5% per year. The Northern Territory had the highest percentage increase (5.1%) while Western Australia increased 3.7% per year. Victoria had the lowest increase (0.8%) and the Australian Capital Territory declined 1.1% per year. There was a small decline in rigid trucks (0.3%), while the number of non-freight carrying trucks had a small rise (0.3%). Following an increase of 5.6% per year between the 1993 and 1995 censuses, the number of articulated trucks declined between the 1995 and 1996 censuses by 3.5% per year. The reported numbers of heavy vehicles, rigid and articulated trucks in particular, were affected by the introduction of the National Heavy Vehicle Registration Scheme which has led to changes in the way these vehicles are classified by some of the State registries. See paragraph 6 of the Explanatory Notes for more details.

Registrations of plant and equipment increased by 2.6% per year while caravan registrations declined 1.0% per year. The number of motor cycles also declined slightly, with increases in New South Wales, Western Australia, Tasmania, the Northern Territory and the Australian Capital Territory offset by falls in registrations in Victoria, Queensland and South Australia. The number of trailers increased by 2.2% per year.

ANNUAL PERCENTAGE CHANGE BY TYPE OF VEHICLE, 1993-1996



ANNUAL PERCENTAGE CHANGE BY OTHER TYPES OF VEHICLE, 1993-96



VEHICLES AND POPULATION

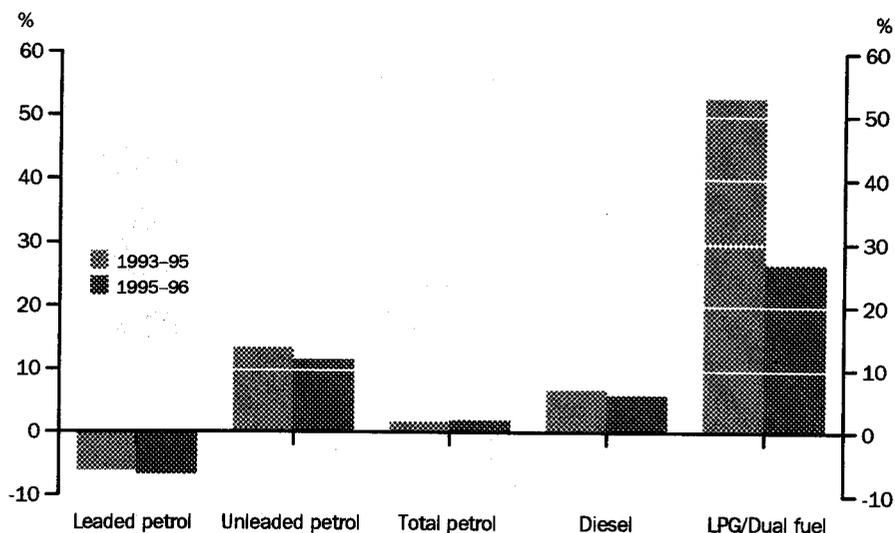
At 31 October 1996, there were 614 registered vehicles per 1,000 population, up from 606 as at 31 May 1995, an increase of 1.0% per year. The rate of increase between the 1993 and 1995 censuses was also 1.0% per year. Western Australia had the highest rate of vehicle ownership (694 vehicles per 1,000 population). The Northern Territory had the lowest (529 per 1,000 population) rate of vehicle ownership. All States and Territories recorded increased rates of ownership except Victoria.

TYPE OF FUEL

This is the first census in which the number of registered vehicles using unleaded petrol exceeds those using leaded petrol. The number of vehicles using unleaded petrol increased by 11.5% per year, between May 1995 and October 1996, while the number of vehicles using leaded petrol decreased by 6.7% per year. The number of LPG/Dual fuel powered vehicles continues to increase at a high annual rate (26.7%) although this rate of increase is less than between 1993 and 1995 (52.9%).

Diesel remains the most common form of fuel used by rigid, articulated and non-freight carrying trucks, and buses. All these groups recorded increases in the number of vehicles using diesel fuel, except articulated trucks. Registrations of passenger vehicles and light commercial vehicles using diesel fuel also increased.

ANNUAL PERCENTAGE CHANGE IN TYPE OF FUEL USED, 1993-96



AVERAGE AGE OF VEHICLES

There was a small increase in the average age of the vehicle fleet from 10.5 years in 1995 to 10.6 years in 1996. The average age of all types of vehicles increased, the largest increases being in the truck fleet. However, the increase was less than that recorded between the 1993 to 1995 censuses, when average age increased from 10.1 years to 10.5 years. There has been a change in the calculation of average age of vehicles in this publication. Refer to the Glossary for more details.

YEAR OF MANUFACTURE

Further information about the ageing of the vehicle fleet can be found by analysing year of manufacture data. However, some care should be taken when analysing earlier years of manufacture as most of the vehicles in the 'not stated' categories have earlier years of manufacture. Also, collection (ie. veteran and vintage) vehicles that are not registered for normal road use are not included in census counts.

Australia-wide, 25.4% of registered vehicles with a reported year of manufacture were manufactured in 1992 or later. However, the pattern differs considerably at the State and Territory level. Tasmania (19.6%) and South Australia (19.9%) had the lowest percentage of vehicles in this group, while the Northern Territory (32.6%), New South Wales (28.8%) and the Australian Capital Territory (28.1%) had the highest. New South Wales, Queensland, Western Australia, the Northern Territory and the Australian Capital Territory also have the highest percentages of vehicles manufactured after 1986, when manufacture and importing of vehicles using leaded petrol ceased in Australia. These are the only States and Territories that now have more unleaded petrol vehicles than leaded petrol vehicles on register.

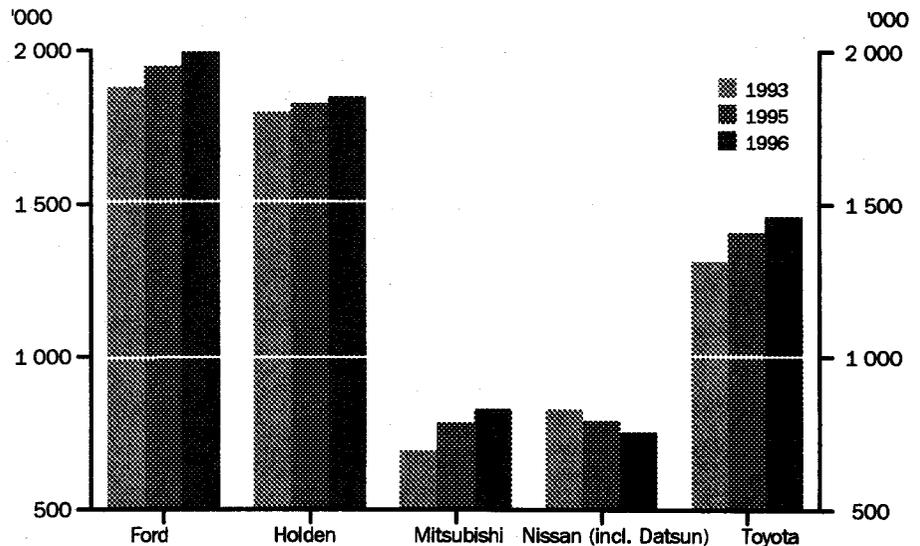
MAKE OF VEHICLE

Passenger vehicles

Of the top five makes, Ford, Holden, Toyota and Mitsubishi all had increased total registrations of passenger vehicles since the previous census. Only Nissan (including Datsun) had a decline in the number of passenger vehicle registrations. Mitsubishi has now overtaken Nissan as the fourth top make and recorded the highest level of growth (4.0%). Toyota had an increase of 2.6% per year, Ford had an increase of 1.7% per year, Holden had an increase of 0.8% per year, while the decrease for Nissan (including Datsun) was 3.5% per year. The percentage of vehicles in the top five makes declined from 78.3% of the passenger fleet in 1995 to 77.7% in 1996.

Of the other passenger vehicle makes, Daewoo increased the most in percentage terms (137.3%), from a very small base. Hyundai (39.8%) and Land Rover (27.6%) also had substantial percentage increases. Other makes that had growth greater than 5% per year were Suzuki (11.6%), Saab (9.5%), BMW (9.0%), and Daihatsu (5.0%).

PASSENGER VEHICLES, TOP FIVE MAKES, 1993-96

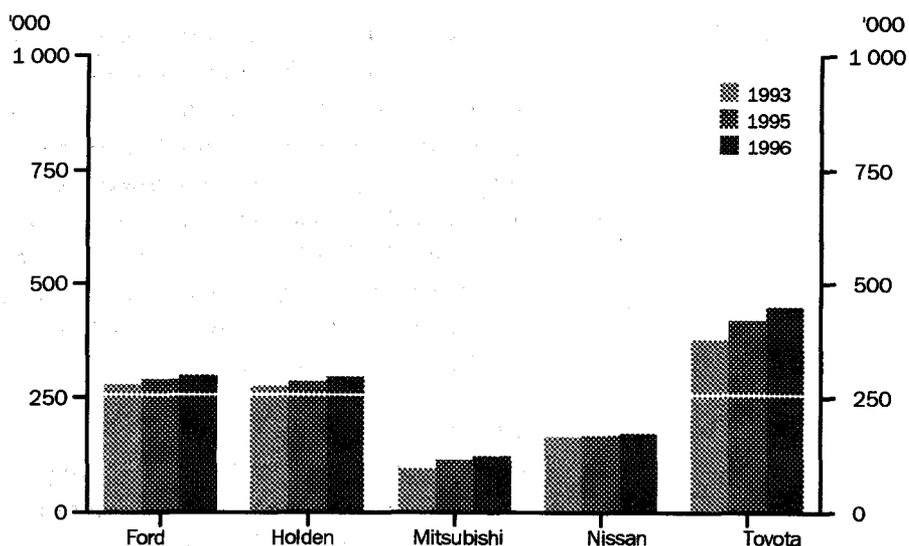


Light commercial vehicles

The top five passenger vehicle manufacturers also were the top five in terms of light commercial vehicle registrations. In the light commercial market Toyota is the dominant make, with over 50% more registrations than their nearest competitor, Ford. Mitsubishi recorded the highest rate of increase in registrations of the top five makes, 5.6% per year since the last census. The other four makes also recorded increased numbers of registrations. Toyota increased 5.0% per year, Holden 2.7% per year, Ford 2.0% per year and Nissan 1.7% per year. These five makes increased their share of light commercial registrations from 83.1% to 84.1%.

Of the other makes with significant numbers, the only ones to increase their number of registrations were Volkswagen (3.9%) and Mazda (2.6%).

LIGHT COMMERCIAL VEHICLES, TOP FIVE MAKES, 1993-96



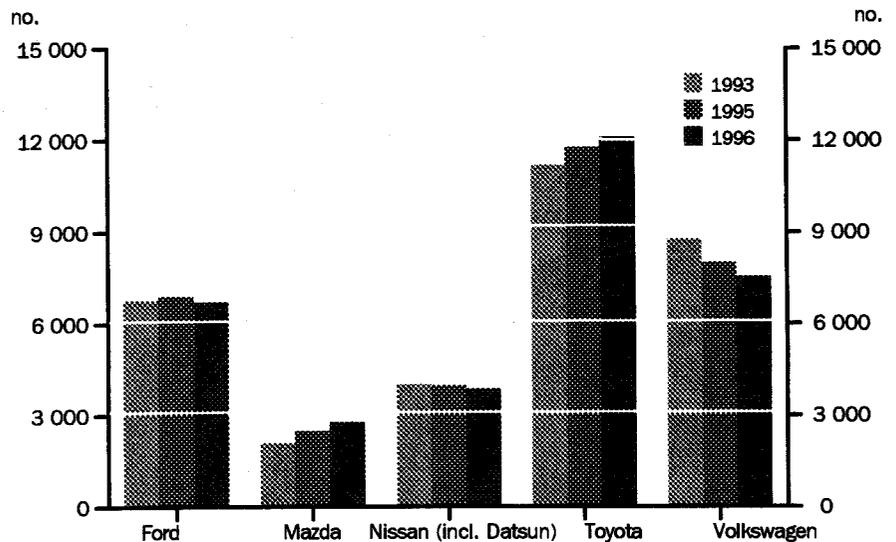
Rigid trucks Although there was a slight decline overall in the number of rigid trucks from the last census, several makes recorded increases in the number of registrations. However, some care should be taken when analysing these changes as the introduction of the National Heavy Vehicle Registration Scheme has provided additional information that indicates a number of vehicles previously classified as articulated trucks should, in fact, have been classified as rigid trucks. This suggests that the actual decline in rigid trucks is understated. Volvo recorded the highest per year increase (11.4%), although there was a nearly corresponding decrease in number of Volvos recorded as articulated trucks. Other makes to record increases were Mitsubishi (6.7%), Isuzu (3.7%), Nissan UD (2.9%), Hino (2.4%) and Mercedes-Benz (0.7%). The increase in Isuzus saw them overtake the number of registrations of International which recorded the highest number of rigid truck registrations in 1995. International had a slight drop in the number of registrations (1.6%). Other significant makes to have declines in registrations were Toyota (down 3.1%) and Ford (down 3.3%).

The main drops in registrations of rigid trucks occurred in vehicles with a Gross Vehicle Mass (GVM) between 4.5 tonnes and 8 tonnes (the smallest trucks under the National Heavy Vehicle Registration Scheme), and vehicles with GVM between 16 and 20 tonnes. There has been a significant increase in rigid trucks with GVM 20 tonnes and over, which is in part due to a re-classification of vehicles previously classified as articulated trucks. Toyota had the greatest number of rigid trucks of 4.5 tonnes or less. International had by far the greatest number of rigid trucks of greater than 20 tonnes.

Articulated trucks Most makes of articulated trucks recorded decreases in the number of registrations. The two makes to increase were Freightliner by 22.3% per year and Western Star by 7.5%. All other makes, including the top five, had drops in registrations. As noted for rigid trucks, some of the decline in articulated truck numbers has been caused by a re-classification of vehicles from articulated trucks to rigid trucks.

Non-freight carrying trucks Non-freight carrying trucks comprise a variety of vehicle types such as campervans, ambulances, fire trucks and trucks with mounted machinery. Some are custom-made, while many are converted from light commercial vehicles, rigid trucks or buses. There was only a small growth in this type of vehicle (0.3% per year) between the 1995 and 1996 censuses. However, several makes had strong growth — Hino (13.5%), Isuzu (10.5%), Holden (9.2%) and Mazda (8.2%). Toyota maintained the highest number of registrations and had growth of 2.0% per year.

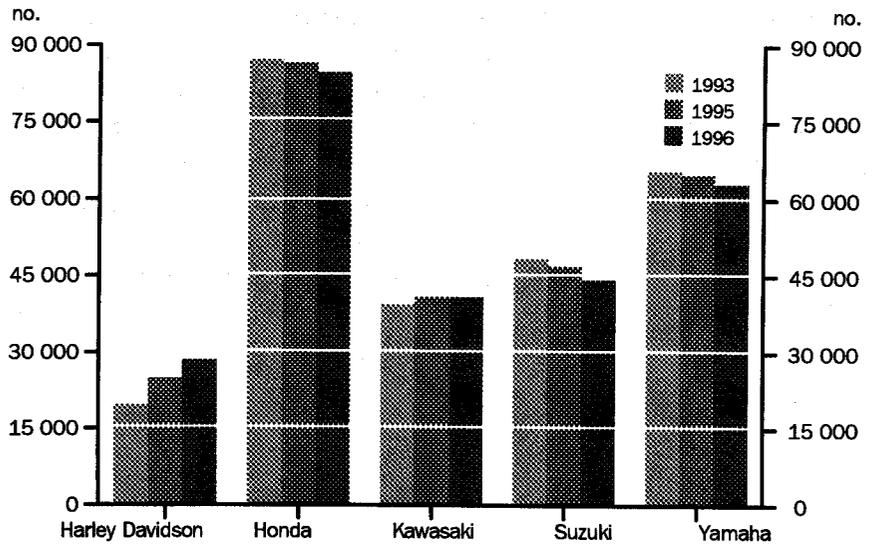
NON-FREIGHT CARRYING TRUCKS, TOP FIVE MAKES, 1993-96



Buses There was a large growth in the number of buses (8.0% per year) since the 1995 census. Toyota has 50.7% of the vehicles registered in this category, and dominated the small bus category (see Glossary for definitions of 'size of bus'). The total number of Toyota buses increased at a rate of 16.0% per year since the previous census. Mercedes-Benz also had increased registrations, up 7.7% per year, and has the greatest number of vehicles in the large size category. Volvo, second to Mercedes-Benz in this category, also had an increase of 1.5% per year. There was also a substantial increase in the number of Scania (14.7%) and Man (10.6%) buses registered. Bedford and Leyland buses displayed the largest decline (14.5% and 11.3% respectively).

Motor cycles The number of motor cycles decreased slightly since the 1995 census. The three top makes all had small declines in registrations — Honda (down 1.6% per year), Yamaha (down 2.0%) and Suzuki (down 4.0%). The makes with the highest increases were Harley Davidson (10.1%), Triumph (8.0%), Ducati (6.9%) and BMW (4.7%).

MOTOR CYCLES, TOP FIVE MAKES, 1993-96



1

MOTOR VEHICLES ON REGISTER BY TYPE OF VEHICLE, STATE/TERRITORY, CENSUS YEARS

Year(a)	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
PASSENGER VEHICLES									
1985	2 169 708	1 887 467	1 040 974	656 952	631 032	200 417	40 610	107 042	6 734 202
1988(b)	2 258 708	2 042 794	1 131 135	681 505	679 111	210 991	(d)35 668	118 895	7 158 807
1991	2 486 022	2 199 140	1 248 096	730 783	782 593	223 724	52 956	137 347	7 860 661
1993	2 561 486	2 304 750	1 385 781	752 254	838 162	232 244	54 703	150 028	8 279 408
1995	2 684 847	2 315 310	1 513 291	777 249	885 527	237 129	58 880	156 573	8 628 806
1996	2 775 659	(f)2 335 426	(g)1 567 301	796 110	922 598	240 993	62 452	161 798	8 862 337
LIGHT COMMERCIAL VEHICLES									
1985	(e)375668	190 636	284 203	87 191	133 125	39 919	18 929	10 808	1 140 479
1988(b)	389 950	196 003	297 685	90 027	136 730	43 169	(d)18 249	11 676	1 183 489
1991	410 757	365 206	306 940	116 324	189 298	52 717	22 798	15 192	1 479 232
1993	405 832	358 848	311 895	109 187	175 945	54 873	20 490	16 692	1 453 762
1995	430 786	357 773	339 951	115 274	187 195	57 217	21 499	17 517	1 527 212
1996	451 652	(f)361 831	(g)353 125	119 469	197 184	59 065	23 080	17 235	1 582 641
RIGID TRUCKS									
1985	165 476	181 026	56 746	48 049	67 573	16 057	5 339	3 456	543 722
1988(b)	171 838	205 074	53 773	48 731	74 458	17 076	(d)1 705	3 684	576 339
1991	105 556	84 447	57 164	29 695	40 813	11 120	2 236	2 216	333 247
1993	102 293	87 325	60 982	26 863	42 336	11 291	2 497	2 903	336 490
1995	103 109	84 652	63 593	26 451	43 044	11 056	2 834	2 682	337 421
1996(c)	103 805	(f)82 057	64 146	25 833	43 895	10 726	3 104	2 418	335 984
ARTICULATED TRUCKS									
1985	16 727	12 442	8 574	5 077	4 881	1 471	896	152	50 220
1988	14 881	13 696	8 368	4 066	5 056	1 570	(d)966	254	48 857
1991	14 750	14 358	8 949	4 829	5 829	1 562	1 151	269	51 697
1993	13 051	15 279	9 984	5 280	6 026	1 556	1 050	272	52 498
1995	15 028	16 516	11 710	5 309	6 748	1 646	1 069	296	58 322
1996(c)	15 119	(f)15 083	11 504	3 943	6 930	1 611	994	268	55 450
NON-FREIGHT CARRYING TRUCKS									
1985	13 914	12 621	4 517	6 840	7 747	2 773	284	696	49 392
1988	14 218	13 445	5 354	7 409	8 724	3 202	(d)295	719	53 366
1991	10 468	11 238	5 896	6 479	8 679	3 247	190	776	46 973
1993	9 305	11 457	6 026	6 725	8 787	3 302	168	798	46 568
1995	9 461	11 289	6 681	6 398	8 606	3 479	276	781	46 971
1996(c)	9 454	(f)11 489	7 124	6 151	8 387	3 519	300	729	47 163
BUSES									
1985	(e)43171	13 283	10 245	3 605	6 235	1 710	746	1 094	80 089
1988(b)	54 107	14 255	10 498	2 972	7 499	1 914	(d)704	1 212	93 161
1991	9 748	11 508	8 390	3 140	6 112	1 859	656	864	42 277
1993	11 280	13 235	8 940	3 292	5 497	2 001	1 350	1 016	46 611
1995	13 473	13 770	9 328	3 525	7 125	2 145	1 883	921	52 170
1996(c)	15 221	(f)13 288	(g)12 405	3 589	8 210	2 190	2 261	1 008	58 172
TOTAL MOTOR VEHICLES (EXCL. MOTOR CYCLES)									
1985	2 784 664	2 297 475	1 405 259	807 714	850 593	262 347	66 804	123 248	8 598 104
1988	2 903 702	2 485 267	1 506 813	834 710	911 578	277 922	(d)57 587	136 440	9 114 019
1991	3 037 301	2 685 897	1 635 435	891 250	1 033 324	294 229	79 987	156 664	9 814 087
1993	3 103 247	2 790 894	1 783 608	903 601	1 076 753	305 267	80 258	171 709	10 215 337
1995	3 256 704	2 799 310	1 944 554	934 206	1 138 245	312 672	86 441	178 770	10 650 902
1996	3 370 910	(f)2 819 174	2 015 603	955 095	1 187 214	318 104	92 191	183 456	10 941 747

(a) For years up to 1991, data are as at 31 September. The 1993 data are as at 30 June. The 1995 data are as at 31 May. The 1996 data are as at 31 October.

(b) Refer to paragraph 5 of the Explanatory Notes for details of vehicle type classification changes between 1988 and 1991 censuses.

(c) The National Heavy Vehicle Registration Scheme, introduced in all States/Territories during 1996, has had an impact on the classification and distribution of heavy vehicles. See paragraph 6 of the Explanatory Notes for details.

(d) The 1988 data understate the number of vehicles on register in the Northern Territory.

(e) In August 1983, the body type classification applied by the NSW registration authority for small bus type vehicles changed from panel vans to buses.

(f) The 1996 Victorian data are based on actual registration data only up to approximately March 1996 plus new registrations from March to October 1996. For more information on the calculation of data for Victoria please contact the ABS.

(g) In 1996 a number of vehicles previously classified as passenger or light commercial vehicles in Queensland were re-classified to buses. Re-classification was based on better identification of the model of the vehicle.

2

MOTOR CYCLES, PLANT AND EQUIPMENT, CARAVANS AND TRAILERS, STATE/TERRITORY, CENSUS YEARS

Year(a)	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
MOTOR CYCLES									
1985	115 819	78 790	74 093	40 981	36 959	6 354	4 324	4 305	361 625
1988	89 913	70 762	60 350	34 371	35 406	6 376	(d)3 064	3 746	303 988
1991	69 610	70 480	58 661	31 445	38 661	6 161	4 337	4 791	284 146
1993	69 168	73 817	63 581	29 220	37 707	6 603	3 902	4 815	288 813
1995	75 757	70 570	68 326	28 618	37 242	7 201	3 929	4 985	296 628
1996	77 947	(f)69 790	66 445	27 769	37 783	7 415	3 975	5 356	296 480
PLANT AND EQUIPMENT									
1985	23 681	64 347	32 316	7 028	28 559	6 865	1 372	792	164 960
1988	29 693	73 971	35 587	(e)6 786	32 794	7 702	(d)1 169	1 218	188 920
1991(b)	24 830	75 510	30 397	6 586	32 021	8 158	735	995	179 232
1993	24 573	19 950	32 019	6 412	13 908	3 877	147	1 283	102 169
1995	24 058	19 583	30 656	6 573	14 836	4 218	273	998	101 195
1996	23 509	(f)18 618	34 214	7 858	15 335	4 445	238	730	104 947
CARAVANS									
1985	63 003	107 842	36 618	30 857	33 309	5 117	850	1 661	279 257
1988	59 738	105 573	37 022	32 566	35 077	5 391	(d)738	1 484	277 589
1991	55 617	99 762	36 541	31 025	36 414	5 288	1 003	1 373	267 023
1993	53 758	99 788	38 570	31 023	36 302	5 293	729	1 393	266 856
1995	55 331	94 864	40 394	30 813	36 627	5 291	681	1 373	265 374
1996	56 730	(f)92 478	39 316	29 343	36 407	5 306	692	1 416	261 688
TRAILERS									
1985	456 531	243 286	259 674	157 345	170 951	43 002	9 263	17 542	1 357 594
1988	473 457	273 853	283 594	170 937	185 200	52 015	(d)9 964	18 165	1 467 185
1991	482 795	301 433	307 632	189 520	203 657	55 516	14 282	19 926	1 574 761
1993	473 043	325 700	340 776	191 701	207 350	57 249	15 921	21 834	1 633 574
1995	505 582	334 428	375 436	201 092	219 625	60 774	16 366	22 570	1 735 873
1996(c)	533 846	(f)341 425	382 255	202 644	227 312	62 662	18 072	23 203	1 791 419

(a) For years up to 1991, data are as at 30 September. The 1993 data are as at 30 June. The 1995 data are as at 31 May. The 1996 data are as at 31 October.

(b) Some agricultural tractors classified as plant and equipment up and including the 1991 census, have subsequently been excluded from the scope of the census.

(c) The National Heavy Vehicle Registration Scheme, introduced in all States/Territories during 1996, has had an impact on the classification and distribution of heavy vehicles. See paragraph 6 of the Explanatory Notes for details.

(d) The 1988 data understated the number of vehicles in The Northern Territory.

(e) After the 1988 census, procedures introduced to better identify out of scope vehicles reduced the number of plant and equipment registrations in South Australia.

(f) The 1996 Victorian data are based on actual registration data only up to approximately March 1996 plus new registrations from March to October 1996. For more information on the calculation of data for Victoria please contact the ABS.

3

MOTOR VEHICLES ON REGISTER PER 1,000 POPULATION, STATE/TERRITORY, CENSUS YEARS

Year(a)	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
PASSENGER VEHICLES									
1985	395	457	407	482	446	453	270	419	426
1988(b)	395	478	409	483	436	470	(d)228	434	431
1991	420	496	419	504	476	479	318	473	453
1993	427	516	445	514	500	493	323	502	469
1995	439	514	462	527	511	501	339	515	478
1996	447	(e)512	(f)469	540	522	508	343	525	484
ALL TRUCK TYPES									
1985	36	50	27	44	56	46	43	17	41
1988(b)	35	54	24	43	57	49	(d)19	17	41
1991	22	25	24	28	34	34	21	11	25
1993	21	26	25	27	34	34	22	13	25
1995	21	25	25	26	34	34	24	12	25
1996(c)	21	(e)24	25	24	34	33	24	11	24
LIGHT COMMERCIAL VEHICLES AND BUSES									
1985	76	49	114	66	98	94	131	47	77
1988(b)	78	49	112	66	93	100	(d)121	47	77
1991	71	85	106	82	119	117	141	55	88
1993	69	83	103	77	108	121	129	59	85
1995	73	83	107	81	112	125	134	61	87
1996(c)	75	(e)82	(f)109	83	116	129	139	59	90
MOTOR CYCLES									
1985	21	19	29	30	26	14	29	17	23
1988	16	17	22	24	23	14	(d)20	14	18
1991	12	16	20	22	24	13	26	17	16
1993	12	17	20	20	22	14	23	16	16
1995	12	16	21	19	22	15	23	16	16
1996	13	(e)15	20	19	21	16	22	17	16
TOTAL MOTOR VEHICLES									
1985	529	575	579	622	628	607	472	499	567
1988	524	598	567	616	608	634	(d)389	511	567
1991	525	622	569	637	653	643	507	556	582
1993	529	642	593	638	665	661	497	591	595
1995	545	637	614	653	679	676	520	604	606
1996	556	(e)633	624	667	694	686	529	613	614

(a) For years up to 1991, data are as at 31 September. The 1993 data are as at 30 June. The 1995 data are as at 31 May. The 1996 data are as at 31 October. Population data were as at the same date as registration data for all years up to 1995. The 1995 and 1996 population data were as at 30 June.

(b) Refer to paragraph 5 of the Explanatory Notes for details of vehicle type classification changes between the 1988 and 1991 censuses.

(c) The National Heavy Vehicle Registration Scheme, introduced in all States/Territories during 1996, has had an impact on the classification and location of heavy vehicles. See paragraph 6 of the Explanatory Notes for details.

(d) The 1988 data understate the number of vehicles on register in the Northern Territory.

(e) The 1996 Victorian data are based on actual registration data only up to approximately March 1996 plus new registrations from March to October 1996. For more information on the calculation of data for Victoria please contact the ABS.

(f) In 1996, a number of vehicles previously classified as passenger or light commercial vehicles in Queensland were re-classified as buses. Re-classification was based on better identification of the model of the vehicle.

Source of population data: Estimated Resident Population (3201.0)

4 ESTIMATED AVERAGE AGE(a) OF THE VEHICLE FLEET(b) BY TYPE OF VEHICLE, CENSUS YEARS

Year(c)	1993	1995	1996
Passenger vehicles	10.0	10.3	10.4
Light commercial vehicles	10.6	11.0	11.2
Rigid trucks	12.7	13.6	14.2
Articulated trucks	10.5	11.0	11.5
Non-freight carrying trucks	14.2	15.2	15.7
Buses	8.9	8.8	8.9
Motor cycles	9.2	9.9	10.1
Total	r10.1	r10.5	10.6

(a)The formula used for calculating average age has changed from that used in previous publications, to make allowance for the Census being run at different times during the year. Refer to the Glossary for details.

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

(c)The 1993 data are as at 30 June. The 1995 data are as at 31 May. The 1996 data are as at 31 October.

5 ESTIMATED AVERAGE AGE OF THE VEHICLE FLEET(a) BY TYPE OF VEHICLE, STATE/TERRITORY

Type of vehicle	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
Passenger vehicles	9.5	11.0	10.2	11.8	10.6	12.0	9.2	10.1	10.4
Light commercial vehicles	10.4	12.2	10.9	12.4	11.2	12.7	9.8	10.3	11.2
Rigid trucks	12.6	15.7	12.9	16.3	15.5	15.7	11.0	10.6	14.2
Articulated trucks	11.1	11.9	10.9	11.8	12.6	10.5	10.6	8.6	11.5
Non-freight carrying trucks	14.6	16.1	14.2	15.7	17.2	17.0	12.4	16.6	15.7
Buses	8.5	9.8	8.9	10.7	7.3	12.7	5.1	8.1	8.9
Motor cycles	9.6	9.9	10.7	(b)9.6	11.0	10.5	8.4	10.1	10.1
Total	9.7	11.3	10.4	12.0	10.9	12.2	9.3	10.2	10.6

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

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

6

MOTOR VEHICLES ON REGISTER BY TYPE OF VEHICLE AND FUEL TYPE, CENSUS YEARS

Type of vehicle	Petrol		Total	Fuel type			Total
	Leaded	Unleaded		Diesel	LPG/Dual fuel	Other/not stated	
1993							
Passenger vehicles	4 880 152	3 137 234	8 017 386	155 449	43 088	63 485	8 279 408
Light commercial vehicles	779 911	367 901	1 147 812	231 615	13 915	60 420	1 453 762
Rigid trucks	93 516	7 312	100 828	214 425	2 546	18 691	336 490
Articulated trucks	2 446	431	2 877	47 365	31	2 225	52 498
Non-freight carrying trucks	28 193	4 732	32 925	10 610	752	2 281	46 568
Buses	7 664	4 560	12 224	32 452	231	1 704	46 611
Motor cycles	182 254	106 479	288 733	—	11	69	288 813
Total	5 974 136	3 628 649	9 602 785	691 916	60 574	148 875	10 504 150
1995							
Passenger vehicles	4 318 382	3 992 531	8 310 913	175 641	98 369	43 883	8 628 806
Light commercial vehicles	706 662	466 985	1 173 647	275 507	33 025	45 033	1 527 212
Rigid trucks	84 000	7 344	91 344	229 313	3 372	13 392	337 421
Articulated trucks	2 224	524	2 748	53 224	24	2 326	58 322
Non-freight carrying trucks	26 220	5 515	31 735	12 278	1 277	1 681	46 971
Buses	6 255	6 587	12 842	37 501	619	1 208	52 170
Motor cycles	162 544	133 956	296 500	14	48	66	296 628
Total	5 306 287	4 613 442	9 919 729	783 478	136 734	107 589	10 947 530
1996							
Passenger vehicles	3 875 056	4 661 015	8 536 071	187 074	138 417	775	8 862 337
Light commercial vehicles	682 103	547 443	1 229 546	306 321	46 537	237	1 582 641
Rigid trucks	78 334	7 142	85 476	246 159	3 695	654	335 984
Articulated trucks	1 845	552	2 397	53 023	23	7	55 450
Non-freight carrying trucks	25 649	5 988	31 637	13 783	1 645	98	47 163
Buses	5 699	8 081	13 780	43 544	840	8	58 172
Motor cycles	141 888	154 541	296 429	—	—	51	296 480
Total	4 810 574	5 384 762	10 195 336	849 904	191 157	1 830	11 238 227

7

MOTOR VEHICLES, TYPE OF VEHICLE AND YEAR OF MANUFACTURE, STATE/TERRITORY

Year of Manufacture	NSW	Vic.(a)	Qld	SA	WA	Tas.	NT	ACT	Aust.
PASSENGER VEHICLES									
To 1970	57 428	76 201	37 180	32 051	28 298	9 453	1 091	4 138	245 840
1971-78	239 540	307 488	163 220	127 725	112 341	41 475	5 429	19 478	1 016 696
1979-82	375 299	375 269	253 117	133 576	143 557	41 696	8 594	22 756	1 353 864
1983-86	539 833	476 000	312 866	164 888	178 578	49 400	12 070	31 171	1 764 806
1987-89	416 198	333 844	215 710	103 962	129 656	29 590	8 578	21 398	1 258 936
1990	168 670	124 494	88 515	40 991	43 902	10 926	3 189	8 997	489 684
1991	146 071	96 857	73 026	31 808	42 273	9 289	2 922	8 225	410 471
1992	150 529	99 175	77 602	32 687	47 180	9 661	3 404	8 566	428 804
1993	160 141	103 555	81 141	32 746	50 223	9 962	3 538	8 903	450 209
1994	185 865	111 029	90 015	34 907	53 997	10 624	4 405	9 689	500 531
1995	194 459	120 013	94 149	36 770	53 717	11 192	5 570	11 105	526 975
1996	132 807	110 231	75 358	23 999	38 854	7 668	3 659	7 369	399 945
Not stated	8 819	1 270	5 402	—	22	57	3	3	15 576
Total	2 775 659	2 335 426	1 567 301	796 110	922 598	240 993	62 452	161 798	8 862 337
LIGHT COMMERCIAL VEHICLES									
To 1970	10 086	15 542	10 508	5 291	6 201	3 266	344	481	51 719
1971-78	57 928	67 389	52 827	23 673	34 480	12 317	2 577	2 369	253 560
1979-82	66 770	57 520	57 593	19 699	31 372	8 643	3 529	2 361	247 487
1983-86	85 812	75 900	62 537	23 055	34 571	11 828	4 782	3 255	301 740
1987-89	59 758	44 956	39 241	13 844	23 632	6 705	2 500	2 078	192 714
1990	26 585	15 910	17 460	5 918	8 166	2 765	1 134	893	78 831
1991	21 270	11 067	15 500	4 006	7 307	2 086	1 072	825	63 133
1992	23 957	12 308	18 656	4 518	9 252	2 497	1 276	920	73 384
1993	22 109	13 397	18 458	4 438	10 205	2 215	1 468	897	73 187
1994	28 030	15 422	22 028	5 205	11 395	2 592	1 550	1 244	87 466
1995	26 772	16 643	19 915	5 415	11 478	2 426	1 703	1 089	85 441
1996	19 734	15 519	16 746	4 407	9 118	1 696	1 145	822	69 187
Not stated	2 841	258	1 656	—	7	29	—	1	4 792
Total	451 652	361 831	353 125	119 469	197 184	59 065	23 080	17 235	1 582 641
RIGID TRUCKS									
To 1970	6 709	12 245	4 389	4 177	5 960	1 201	69	33	34 783
1971-78	17 485	19 245	11 559	6 387	11 377	2 964	415	321	69 753
1979-82	16 735	12 437	11 448	3 950	6 838	1 831	516	319	54 074
1983-86	20 335	14 451	12 207	4 638	7 075	2 098	725	615	62 144
1987-89	15 218	9 314	8 059	2 534	4 757	1 128	429	395	41 834
1990	5 305	2 973	2 726	1 054	1 419	348	159	134	14 118
1991	3 356	1 700	1 974	618	983	196	133	95	9 055
1992	3 752	1 846	2 289	554	1 125	191	145	133	10 035
1993	3 421	1 894	2 435	475	1 137	173	118	97	9 750
1994	4 361	2 197	2 751	586	1 320	243	140	133	11 731
1995	3 747	2 072	2 267	579	1 199	218	176	91	10 349
1996	2 080	1 579	1 332	281	703	118	79	52	6 224
Not stated	1 301	104	710	—	2	17	—	—	2 134
Total	103 805	82 057	64 146	25 833	43 895	10 726	3 104	2 418	335 984

For footnotes see end of table.

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MOTOR VEHICLES, TYPE OF VEHICLE AND YEAR OF MANUFACTURE, STATE/TERRITORY — *continued*

Year of Manufacture	NSW	Vic. (a)	Qld	SA	WA	Tas.	NT	ACT	Aust.
ARTICULATED TRUCKS									
To 1970	662	745	363	81	261	22	23	1	2 158
1971-78	2 650	3 216	1 943	760	1 481	231	141	20	10 442
1979-82	2 017	2 105	1 812	700	1 360	211	173	39	8 417
1983-86	2 197	2 213	1 734	761	1 220	361	179	36	8 701
1987-89	2 134	2 176	1 582	574	1 030	277	141	48	7 962
1990	757	561	543	199	307	94	46	20	2 527
1991	371	295	282	143	123	49	25	6	1 294
1992	456	393	406	81	129	63	21	16	1 565
1993	705	657	606	136	213	67	43	23	2 450
1994	1 330	968	905	253	266	76	67	27	3 892
1995	1 064	1 027	740	174	316	98	80	18	3 517
1996	587	716	564	81	224	61	55	14	2 302
Not stated	189	11	22	—	—	1	—	—	223
<i>Total</i>	<i>15 119</i>	<i>15 083</i>	<i>11 502</i>	<i>3 943</i>	<i>6 930</i>	<i>1 611</i>	<i>994</i>	<i>268</i>	<i>55 450</i>
NON-FREIGHT CARRYING TRUCKS									
To 1970	375	1 398	429	444	934	353	18	41	3 992
1971-78	3 173	3 506	2 007	2 329	3 326	1 378	70	322	16 111
1979-82	1 686	1 794	1 241	887	1 272	572	45	125	7 622
1983-86	1 704	1 941	1 256	947	1 300	602	35	119	7 904
1987-89	742	1 087	744	544	566	257	31	50	4 021
1990	232	324	247	224	198	80	10	16	1 331
1991	235	297	241	160	173	59	11	8	1 184
1992	201	236	219	121	224	69	12	11	1 093
1993	257	167	164	132	144	50	12	11	937
1994	241	156	249	114	112	35	22	11	940
1995	332	264	161	134	93	49	21	9	1 063
1996	167	303	148	115	55	7	13	6	814
Not stated	109	16	18	—	—	8	—	—	151
<i>Total</i>	<i>9 454</i>	<i>11 489</i>	<i>7 124</i>	<i>6 151</i>	<i>8 397</i>	<i>3 519</i>	<i>300</i>	<i>729</i>	<i>47 163</i>
BUSES									
To 1970	200	279	124	91	185	162	6	9	1 056
1971-78	1 330	1 234	1 317	582	577	462	43	57	5 602
1979-82	1 580	1 791	1 510	469	440	254	77	72	6 193
1983-86	2 103	2 920	1 870	693	778	367	148	148	9 027
1987-89	2 359	2 095	1 842	491	1 176	314	289	263	8 829
1990	1 158	711	722	200	528	123	199	94	3 735
1991	1 070	666	731	139	781	90	175	81	3 733
1992	1 220	749	890	139	758	108	214	68	4 146
1993	1 105	638	812	149	796	88	290	57	3 935
1994	1 076	758	877	198	787	79	327	55	4 157
1995	1 177	811	955	195	854	106	277	56	4 431
1996	605	635	751	243	550	37	216	47	3 084
Not stated	238	1	4	—	—	—	—	1	244
<i>Total</i>	<i>15 221</i>	<i>13 288</i>	<i>12 405</i>	<i>3 589</i>	<i>8 210</i>	<i>2 190</i>	<i>2 261</i>	<i>1 008</i>	<i>58 172</i>

For footnotes see end of table.

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7 MOTOR VEHICLES, TYPE OF VEHICLE AND YEAR OF MANUFACTURE, STATE/TERRITORY — continued

Year of Manufacture	NSW	Vic. (a)	Qld	SA	WA	Tas.	NT	ACT	Aust.
TOTAL MOTOR VEHICLES (excl. motor cycles)									
To 1970	75 460	106 410	52 993	42 135	41 839	14 457	1 551	4 703	339 548
1971-78	322 106	402 078	232 873	161 456	163 582	58 827	8 675	22 567	1 372 164
1979-82	464 087	450 916	326 721	159 281	184 839	53 207	12 934	25 672	1 677 657
1983-86	651 984	573 425	392 470	194 982	223 522	64 656	17 939	35 344	2 154 322
1987-89	496 409	393 472	267 178	121 949	160 817	38 271	11 968	24 232	1 514 296
1990	202 707	144 973	110 213	48 586	54 520	14 336	4 737	10 154	590 226
1991	172 373	110 882	91 754	36 874	51 640	11 769	4 338	9 240	488 870
1992	180 115	114 707	100 062	38 100	58 668	12 589	5 072	9 714	519 027
1993	187 738	120 308	103 616	38 076	62 718	12 555	5 469	9 988	540 468
1994	220 903	130 530	116 825	41 263	67 877	13 649	6 511	11 159	608 717
1995	227 551	140 830	118 187	43 267	67 657	14 089	7 827	12 368	631 776
1996	155 980	128 983	94 899	29 126	49 504	9 587	5 167	8 310	481 556
Not stated	13 497	1 660	7 812	—	31	112	3	5	23 120
Total	3 370 910	2 819 174	2 015 603	955 095	1 187 214	318 104	92 191	183 456	10 941 747

(a) Victorian data are based on actual registration data only up to approximately March 1996 plus new registrations from March to October 1996. For more information on the calculation of data for Victoria please contact the ABS.

8 PASSENGER VEHICLES ON REGISTER BY MAKE OF VEHICLE, CENSUS YEARS(a)

Make	1993	1995	1996
BMW	58 186	70 401	79 579
Chrysler	204 655	169 378	138 752
Daewoo	—	7 332	24 938
Daihatsu	87 449	111 117	119 081
Ford	1 880 260	1 946 343	1 993 447
Holden	1 799 232	1 826 559	1 848 433
Honda	183 396	202 096	214 156
Hyundai	55 229	101 581	163 367
Jaguar	23 532	23 918	23 572
Land Rover	6 638	14 000	19 774
Mazda	419 499	427 904	426 224
Mercedes-Benz	82 975	87 661	91 690
Mitsubishi	692 128	785 708	830 103
Nissan (incl. Datsun)	826 173	791 538	752 569
Peugeot	27 886	30 578	31 677
Renault	22 294	19 360	17 023
Saab	19 206	24 447	27 798
Subaru	113 449	123 783	130 153
Suzuki	58 304	75 973	88 736
Toyota	1 311 877	1 407 215	1 460 249
Volkswagen	75 216	67 771	64 067
Volvo	93 430	93 753	93 344
Other/not stated	238 394	220 390	223 605
Total	8 279 408	8 628 806	8 862 337

(a) The 1993 data are as at 30 June. The 1995 data are as at 31 May. The 1996 data are as at 31 October.

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PASSENGER VEHICLES ON REGISTER BY MAKE OF VEHICLE AND YEAR OF MANUFACTURE

Make	1978 and earlier	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	1996	Not stated	Total
BMW	7 249	8 002	15 207	9 961	7 886	9 984	14 977	6 156	157	79 579
Chrysler	89 016	48 468	157	19	5	4	13	619	451	138 752
Daewoo	—	—	—	—	—	7	14 930	10 001	—	24 938
Daihatsu	251	6 790	15 019	12 423	27 794	30 146	22 690	3 847	121	119 081
Ford	216 441	289 729	456 692	330 311	201 681	191 790	217 100	86 984	2 719	1 993 447
Holden	338 523	322 026	338 040	246 938	158 034	156 916	203 830	80 071	4 055	1 848 433
Honda	20 802	32 155	32 745	36 687	24 905	24 501	29 905	12 180	276	214 156
Hyundai	—	—	1 994	15 857	17 222	28 545	63 743	35 972	34	163 367
Jaguar	11 854	2 688	3 930	2 953	593	393	696	356	109	23 572
Land Rover	1 963	489	999	187	498	4 497	7 721	3 395	25	19 774
Mazda	58 800	97 831	95 692	35 030	38 006	42 332	43 942	14 083	508	426 224
Mercedes-Benz	32 285	13 184	15 049	9 796	4 054	5 896	7 144	3 963	319	91 690
Mitsubishi	2 866	110 644	200 746	155 664	94 468	117 188	113 325	34 437	765	830 103
Nissan (incl. Datsun)	113 943	146 976	162 510	129 574	100 671	47 379	36 898	13 227	1 391	752 569
Peugot	8 564	5 484	5 496	1 998	1 018	1 947	6 022	1 060	88	31 677
Renault	8 574	2 675	2 983	312	175	761	1 414	106	23	17 023
Saab	1 137	1 422	4 290	5 334	2 265	4 622	6 270	2 418	40	27 798
Subaru	2 559	19 096	32 968	11 558	21 301	20 072	16 123	6 276	200	130 153
Suzuki	223	4 085	13 608	9 344	16 614	16 942	21 941	5 921	58	88 736
Toyota	158 874	195 871	322 482	217 011	169 322	161 574	169 642	63 557	1 916	1 460 249
Volkswagen	52 884	2 914	803	629	987	471	2 913	1 963	503	64 067
Volvo	24 177	22 127	19 402	10 027	4 165	4 472	6 253	2 578	143	93 344
Other/not stated	111 551	21 208	23 994	17 323	8 491	8 574	20 014	10 775	1 675	223 605
Total	1 262 536	1 353 864	1 764 806	1 258 936	900 155	879 013	1 027 506	399 945	15 576	8 862 337

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LIGHT COMMERCIAL VEHICLES ON REGISTER BY MAKE OF VEHICLE, CENSUS YEARS(a)

Make	1993	1995	1996
Chrysler	10 330	9 205	7 881
Daihatsu	27 537	25 126	23 993
Dodge	5 986	5 035	4 333
Ford	277 681	287 914	296 159
Holden	273 292	283 594	294 478
Land Rover	22 533	21 184	20 205
Leyland	7 801	6 622	5 649
Mazda	71 306	76 555	79 374
Mitsubishi	95 369	113 379	122 441
Nissan (incl. Datsun)	164 759	167 194	171 268
Subaru	22 803	22 497	21 784
Suzuki	49 332	44 015	39 727
Toyota	375 156	417 295	447 422
Volkswagen	16 973	16 922	17 873
Other/not stated	32 904	30 675	30 054
Total	1 453 762	1 527 212	1 582 641

(a) The 1993 data are as at 30 June. The 1995 data are as at 31 May. The 1996 data are as at 31 October.

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LIGHT COMMERCIAL VEHICLES ON REGISTER BY MAKE OF VEHICLE AND YEAR OF MANUFACTURE

Make	1978 and earlier	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	1996	Not stated	Total
Chrysler	6 926	923	7	—	—	—	—	—	25	7 881
Daihatsu	2 985	7 121	8 272	3 800	720	488	456	65	86	23 993
Dodge	4 193	89	1	—	1	—	1	2	46	4 333
Ford	51 260	43 380	56 189	49 853	27 380	20 908	32 881	13 569	739	296 159
Holden	112 893	50 970	26 842	11 005	21 243	23 597	31 780	15 069	1 079	294 478
Land Rover	15 610	1 974	295	96	14	438	1 108	431	239	20 205
Leyland	3 594	1 992	48	5	1	—	—	—	9	5 649
Mazda	7 638	12 078	20 399	7 774	6 744	8 785	11 320	4 482	154	79 374
Mitsubishi	54	12 554	24 956	20 424	18 793	21 152	18 552	5 794	162	122 441
Nissan (incl. Datsun)	21 258	32 721	45 640	29 756	14 555	11 426	11 421	4 087	404	171 268
Subaru	206	1 260	4 029	6 847	5 563	3 787	19	—	73	21 784
Suzuki	3 275	12 326	16 242	4 506	963	607	1 284	404	120	39 727
Toyota	50 555	64 334	93 190	57 416	44 723	53 611	59 544	22 862	1 187	447 422
Volkswagen	10 518	628	476	830	851	560	2 648	1 317	45	17 873
Other/not stated	14 314	5 137	5 154	402	413	1 212	1 893	1 105	424	30 054
Total	305 279	247 487	301 740	192 714	141 964	146 571	172 907	69 187	4 792	1 582 641

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RIGID TRUCKS ON REGISTER BY MAKE OF VEHICLE, CENSUS YEARS(a)

Make	1993	1995	1996(c)
Bedford	22 288	19 255	17 176
Daihatsu	15 766	16 376	15 441
Dodge	15 758	14 274	13 073
Ford	46 084	45 026	42 964
Hino	17 879	19 633	20 303
International	49 952	49 734	48 635
Isuzu	41 332	46 488	48 948
Mazda	15 024	15 818	15 746
Mercedes Benz	4 380	4 671	4 715
Mitsubishi	26 433	30 146	33 038
Nissan (incl. Datsun)	(b)	r3 935	3 481
Nissan UD (diesel)	(b)	7 683	7 996
Toyota	37 121	34 719	33 206
Volvo	6 193	6 070	7 073
Other/not stated	(b)38 280	23 593	24 189
Total	336 490	337 421	335 984

(a)The 1993 data are as at 30 June. The 1995 data are as at 31 May. The 1996 data are as at 31 October.

(b)Previously published data for Nissan rigid trucks has included some Nissan UD trucks. The 1995 data has been revised, but there was insufficient information to revise figures for 1993. All Nissan and Nissan UD data for 1993 has been included in the 'Other/not stated' category.

(c)The National Heavy Vehicle Registration Scheme, introduced in all States/Territories during 1996, has had an impact on the classification and location of rigid trucks. See paragraph 6 of the Explanatory Notes for details.

13

RIGID TRUCKS ON REGISTER BY MAKE OF VEHICLE AND YEAR OF MANUFACTURE

Make	1978 and earlier	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	1996	Not stated	Total
Bedford	16 099	802	5	1	—	—	—	—	269	17 176
Daihatsu	2 124	3 865	4 124	2 559	1 002	618	863	208	78	15 441
Dodge	12 272	669	2	1	—	—	—	2	127	13 073
Ford	14 380	8 073	8 535	5 005	2 559	1 714	1 934	493	271	42 964
Hino	901	3 234	6 176	3 450	2 126	1 965	1 860	505	86	20 303
International	27 826	9 088	3 792	2 841	1 205	1 062	1 737	571	513	48 635
Isuzu	1 878	7 074	12 165	8 843	5 716	5 498	5 823	1 791	160	48 948
Mazda	2 191	1 559	4 217	2 907	1 656	1 395	1 411	363	47	15 746
Mercedes-Benz	1 285	633	1 156	577	412	338	257	34	23	4 715
Mitsubishi	108	4 025	8 581	6 946	4 286	3 835	4 071	1 087	99	33 038
Nissan (incl. Datsun)	1 254	541	1 153	371	112	25	—	7	18	3 481
Nissan UD (diesel)	729	1 108	1 833	1 565	860	677	867	326	31	7 996
Toyota	8 701	6 776	6 960	4 590	2 088	1 897	1 719	292	183	33 206
Volvo	1 585	1 393	1 360	991	635	384	537	167	21	7 073
Other/not stated	13 203	5 234	2 085	1 187	516	377	1 001	378	208	24 189
Total	104 536	54 074	62 144	41 834	23 173	19 785	22 080	6 224	2 134	335 984

14

RIGID TRUCKS ON REGISTER BY MAKE OF VEHICLE AND GROSS VEHICLE MASS

Make	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	Not stated	
Bedford	669	2 362	3 438	4 421	3 353	2 345	254	189	145	17 176
Daihatsu	10 691	4 206	47	—	—	—	—	—	497	15 441
Dodge	958	2 604	2 655	1 661	3 192	1 405	350	118	130	13 073
Ford	10 963	6 427	7 201	2 721	3 728	4 752	503	5 276	1 393	42 964
Hino	2	51	1 227	6 803	2 670	8 091	174	1 240	45	20 303
International	1 179	1 666	4 132	5 450	6 816	13 849	3 495	11 785	263	48 635
Isuzu	7 509	6 236	7 475	13 134	3 064	9 098	336	1 741	355	48 948
Mazda	5 142	4 744	5 671	35	—	—	—	—	154	15 746
Mercedes-Benz	7	6	94	178	218	1 443	334	2 410	25	4 715
Mitsubishi	6 157	7 674	623	6 031	1 894	7 923	197	2 285	254	33 038
Nissan (incl. Datsun)	2 048	1 099	245	—	—	—	—	—	89	3 481
Nissan UD (diesel)	—	—	—	2 676	345	2 253	224	2 498	—	7 996
Toyota	18 635	8 382	2 779	267	1 391	619	5	42	1 086	33 206
Volvo	—	—	—	—	—	801	365	5 884	23	7 073
Other/not stated	2 634	1 778	1 635	1 968	2 068	3 165	1 103	9 064	774	24 189
Total	66 594	47 235	37 222	45 345	28 739	55 744	7 340	42 532	5 233	335 984

15

ARTICULATED TRUCKS ON REGISTER BY MAKE OF VEHICLE, CENSUS YEARS(a)

Make	1993	1995	1996(b)
Atkinson	1 093	1 029	900
Ford	5 298	5 597	5 503
Freightliner	500	899	1 195
International	8 404	9 083	8 876
Kenworth	8 573	10 082	9 651
Mack	5 886	7 323	6 984
Mercedes-Benz	4 712	4 813	4 417
Mitsubishi	737	678	646
Nissan UD (diesel)	1 725	1 796	1 561
Scania	3 615	3 976	3 591
Volvo	6 185	7 152	6 311
Western Star	825	1 511	1 675
White	1 494	1 426	1 279
Other/not stated	3 451	2 957	2 861
Total	52 498	58 322	55 450

(a)The 1993 data are as at 30 June. The 1995 data are as at 31 May. The 1996 data are as at 30 October.

(b)The National Heavy Vehicle Registration Scheme, introduced in all States/Territories during 1996, has had an impact on the classification and location of articulated trucks. See paragraph 6 of the Explanatory Notes for details.

16

ARTICULATED TRUCKS ON REGISTER BY MAKE OF VEHICLE AND YEAR OF MANUFACTURE

Make	1978 and earlier	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	1996	Not stated	Total
Atkinson	447	209	194	45	—	—	—	—	5	900
Ford	704	789	1 049	1 063	419	433	857	175	14	5 503
Freightliner	—	—	—	47	133	286	546	182	1	1 195
International	2 301	1 796	1 294	1 097	466	536	1 013	320	53	8 876
Kenworth	1 840	1 543	1 478	1 467	530	905	1 345	519	24	9 651
Mack	1 379	1 008	961	1 133	477	416	1 226	370	14	6 984
Mercedes-Benz	1 934	468	792	464	193	235	250	52	29	4 417
Mitsubishi	5	25	244	205	79	32	50	6	—	646
Nissan UD (diesel)	337	322	352	223	143	66	84	32	2	1 561
Scania	311	403	901	672	411	271	419	192	11	3 591
Volvo	1 132	848	900	1 052	731	561	851	205	31	6 311
Western Star	—	—	122	273	171	212	673	219	5	1 675
White	654	614	4	1	—	—	—	—	6	1 279
Other/not stated	1 556	392	410	220	68	62	95	30	28	2 861
Total	12 600	8 417	8 701	7 962	3 821	4 015	7 409	2 302	223	55 450

17

NON-FREIGHT CARRYING TRUCKS ON REGISTER BY MAKE OF VEHICLE, CENSUS YEARS(a)

Make	1993	1995	1996
Bedford	2 604	2 565	2 439
Ford	6 750	6 878	6 682
Hino	1 022	1 233	1 475
Holden	661	744	843
International	2 761	2 593	2 331
Isuzu	1 157	1 504	1 732
Mazda	2 073	2 476	2 770
Mitsubishi	991	1 149	1 250
Nissan (incl. Datsun)	3 982	3 940	3 830
Toyota	11 150	11 754	12 081
Volkswagen	8 725	7 974	7 521
Other/not stated	5 683	5 310	4 209
Total	46 568	46 971	47 163

(a)The 1993 data are as at 30 June. The 1995 data are as at 31 May 1995. The 1996 data are as at 31 October.

18

NON-FREIGHT CARRYING TRUCKS ON REGISTER BY MAKE OF VEHICLE AND YEAR OF MANUFACTURE

Make	1979 and earlier	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	1996	Not stated	Total
Bedford	2 270	152	10	1	—	—	—	—	6	2 439
Ford	2 108	1 045	1 051	634	736	568	396	121	23	6 682
Hino	96	50	329	331	246	146	207	66	4	1 475
Holden	336	121	63	24	15	38	180	62	4	843
International	1 370	474	255	114	50	23	27	14	4	2 331
Isuzu	68	162	319	430	130	203	250	168	2	1 732
Mazda	270	397	945	427	252	211	186	73	9	2 770
Mitsubishi	6	204	311	228	143	149	93	113	3	1 250
Nissan (incl. Datsun)	1 110	797	1 306	410	113	60	16	6	12	3 830
Toyota	3 064	3 468	2 759	1 045	651	487	463	108	36	12 081
Volkswagen	6 715	303	168	127	92	14	50	31	21	7 521
Other/not stated	2 690	449	388	250	87	131	135	52	27	4 209
Total	20 103	7 622	7 904	4 021	2 515	2 030	2 003	814	151	47 163

19

BUSES ON REGISTER BY MAKE OF VEHICLE, CENSUS YEARS(a)

Make	1993	1995	1996
Bedford	3 252	2 923	2 341
Denning	1 070	1 085	1 056
Hino	2 554	2 793	3 050
Leyland	2 591	2 135	1 801
MAN	1 287	1 480	1 706
Mazda	2 572	2 508	2 543
Mercedes-Benz	4 038	4 456	4 951
Nissan (incl. Datsun)	3 027	2 877	3 197
Renault	604	643	650
Scania	598	834	1 013
Toyota	18 490	23 917	29 505
Volvo	2 326	2 551	2 605
Other/not stated	4 202	3 968	3 754
Total	46 611	52 170	58 172

(a)The 1993 data are as at 30 June. The 1995 data are as at 31 May. The 1996 data are as at 31 October.

20

BUSES ON REGISTER BY MAKE OF VEHICLE AND YEAR OF MANUFACTURE

Make	1978	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	1996	Not stated	Total
	and earlier									
Bedford	1 772	544	7	2	4	—	—	—	12	2 341
Denning	231	245	284	198	46	26	11	4	11	1 056
Hino	367	454	594	440	287	393	370	111	34	3 050
Leyland	1 018	321	278	117	30	1	—	—	36	1 801
MAN	147	383	301	285	93	109	262	124	2	1 706
Mazda	109	312	836	468	305	315	136	50	12	2 543
Mercedes-Benz	539	863	1 160	789	273	442	723	129	33	4 951
Nissan (incl. datsun)	241	302	911	591	413	357	292	86	4	3 197
Renault	—	—	64	320	154	75	31	6	—	650
Scania	2	2	150	189	117	188	250	106	9	1 013
Toyota	721	1 776	3 178	4 424	5 305	5 692	6 054	2 300	55	29 505
Volvo	606	425	525	369	196	227	197	47	13	2 605
Other/not stated	905	566	739	637	245	256	262	121	23	3 754
Total	6 658	6 193	9 027	8 829	7 468	8 081	8 588	3 084	244	58 172

21

BUSES ON REGISTER BY MAKE OF VEHICLE AND SIZE OF BUS(a)

Make	Small	Medium	Large	Not stated	Total
Bedford	25	1 848	468	—	2 341
Denning	1	28	1 027	—	1 056
Hino	20	1 285	1 745	—	3 050
Leyland	47	332	1 421	1	1 801
MAN	—	212	1 493	1	1 706
Mazda	2 418	101	—	24	2 543
Mercedes-Benz	—	527	4 423	1	4 951
Nissan (incl. Datsun)	2 301	718	163	15	3 197
Renault	—	—	650	—	650
Scania	—	20	993	—	1 013
Toyota	27 751	1 743	—	11	29 505
Volvo	—	113	2 492	—	2 605
Other/not stated	497	1 073	2 178	6	3 754
Total	33 060	8 000	17 053	59	58 172

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

22

MOTOR CYCLES ON REGISTER BY YEAR OF MANUFACTURE, STATE/TERRITORY

Year of manufacture	NSW	Vic.(a)	Qld	SA	WA	Tas.	NT	ACT	Aust.
To 1970	1 529	1 732	1 961	1 034	1 716	161	54	91	8 278
1971-78	5 658	5 536	6 476	1 109	3 644	674	184	403	23 684
1979-82	13 202	11 469	12 215	1 338	6 509	1 272	525	1 051	47 581
1983-86	15 941	15 164	13 095	1 460	7 561	1 855	774	1 208	57 058
1987-89	9 094	7 785	8 561	942	5 005	798	537	650	33 372
1990	3 750	3 229	3 388	783	1 727	329	224	256	13 686
1991	4 481	3 316	3 549	1 108	1 966	369	231	280	15 300
1992	3 500	3 370	3 181	1 100	1 802	332	257	230	13 772
1993	4 612	3 544	3 450	1 173	2 003	483	260	269	15 794
1994	5 845	4 235	3 849	1 389	2 212	449	308	367	18 654
1995	6 889	5 300	4 156	1 493	2 405	437	411	378	21 469
1996	3 070	4 719	2 403	703	1 231	255	210	173	12 764
Not Stated	376	391	161	14 137	2	1	0	0	15 068
Total	77 947	69 790	66 445	27 769	37 783	7 415	3 975	5 356	296 480

(a)Victorian data are based on actual registration data only up to approximately March 1996 plus new registrations from March to October 1996. For more information on the calculation of data for Victoria please contact the ABS.

23

MOTOR CYCLES ON REGISTER BY MAKE OF VEHICLE, CENSUS YEARS(a)

Make	1993	1995	1996
BMW	10 403	11 740	12 531
Ducati	4 358	5 130	5 639
Harley Davidson	19 586	24 889	28 521
Honda	87 120	86 456	84 554
Kawasaki	39 273	40 874	40 842
Suzuki	48 387	46 843	44 192
Triumph	3 831	4 772	5 322
Yamaha	65 591	64 776	62 976
Other/not stated	10 264	11 148	11 903
Total	288 813	296 628	296 480

(a)The 1993 are as at 30 June. The 1995 data are as at 31 May. The 1996 data are as at 31 October.

24

MOTOR CYCLES ON REGISTER BY MAKE OF VEHICLE AND YEAR OF MANUFACTURE

Make	1978 and earlier	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	1996	Not stated	Total
BMW	1 644	1 361	3 885	1 164	784	1 091	1 645	493	464	12 531
Ducati	1 278	1 136	663	349	327	472	1 006	153	255	5 639
Harley Davidson	4 415	2 023	2 669	2 844	3 277	4 340	5 968	2 299	686	28 521
Honda	7 594	15 093	17 861	8 867	5 747	8 729	12 627	3 387	4 649	84 554
Kawasaki	2 523	5 395	8 372	5 771	5 380	4 562	5 163	1 828	1 848	40 842
Suzuki	2 421	9 856	10 420	5 373	5 435	3 932	2 917	1 412	2 426	44 192
Triumph	3 067	512	80	29	2	280	974	195	183	5 322
Yamaha	3 979	11 317	11 959	8 215	7 421	5 430	8 231	2 278	4 146	62 976
Other/not stated	5 041	888	1 149	760	613	730	1 592	719	411	11 903
Total	31 962	47 581	57 058	33 372	28 986	29 566	40 123	12 764	15 068	296 480

EXPLANATORY NOTES

MOTOR VEHICLE CENSUS

- 1** This publication contains statistics relating to vehicles which were on register at 31 October 1996 with a motor vehicle registration authority. Similar statistics have been published periodically since the first Motor Vehicle Census was conducted in 1971.
- 2** For census purposes, vehicles on register have been defined as those vehicles for which registration was effective for a period including 31 October 1996, 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 and other similar initiatives 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 more accurate classification of vehicles. 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** Since 1991, the ABS has used the third Australian Design Rule body coding classification categories for light and heavy commercial vehicles in the revised ABS classification system. Under the classification rules, only goods carrying vehicles with a Gross Vehicle Mass (GVM) over 3.5 tonnes are classified as rigid or articulated trucks. Goods carrying vehicles with a GVM of 3.5 tonnes and under are coded as light commercial vehicles (utilities, panel vans, forward-control vehicles, etc.). Prior to 1991, any vehicle recorded by a motor registry as a truck was classified accordingly by the ABS. As a result of this classification change, there was a large increase in the number of registered light commercial vehicles in some States and Territories, with a corresponding fall in the number of rigid trucks. The classification rules for buses also changed for the 1991 census, so that only passenger vehicles with 10 or more seats, including the driver's seat, are classified as buses. The result of this change was a reduction in the statistics of registered buses, and an increase in the registration statistics of passenger vehicles.

6 During 1995 and 1996, State/Territory jurisdictions introduced the National Heavy Vehicle Registration Scheme. The scheme applies to rigid, articulated and non-freight carrying trucks, buses and trailers that have GVM greater than 4.5 tonnes. It sets uniform registration fees for vehicles of various types for all registries, replacing the system where each state set its own fees. With the introduction of the scheme, additional information was received from each state registry except New South Wales, Victoria and DAS Fleet, showing the fee category based on the type of vehicle, GVM and number of axles. This information has been used in classifying the vehicle type. The introduction of the scheme has, therefore, had two impacts on the classifying of vehicles. Firstly, because registration has become relatively cheaper or more expensive in some States/Territories, owners have transferred registration of heavy vehicles to other registries or have de-registered vehicles. This has led to fluctuation in registrations of heavy vehicles, especially rigid and articulated trucks, in most States/Territories. Secondly, the additional information provided in the form of the fee category has allowed more accurate classification of some vehicles. In particular, a number of vehicles previously classified as articulated trucks have been re-classified as rigid trucks. Note that sometimes fee categories differ from definitions of vehicles used in this publication. Where these discrepancies exist, vehicles are classified using definitions previously used (e.g. towtrucks are classified as 'Non-freight carrying trucks' even though their fee category indicates they are rigid trucks).

SCOPE AND COVERAGE

7 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.

8 The Motor Vehicle Census includes:

- vehicles registered for unrestricted use on public roads; and
- vehicles with diplomatic and consular plates and State and Commonwealth Government owned vehicles, other than those belonging to the defence services.

SCOPE AND COVERAGE *continued*

9 The Motor Vehicle Census excludes:

- 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);
- certain vehicles which use public roads but are exempt from normal registration requirements, e.g. fire engines in certain States and Territories (the extent to which these vehicles are excluded varies between the States and Territories);
- Commonwealth Government vehicles prior to 1985;
- vehicles registered for use solely on farms, in mines, etc. and not used on public roads; and
- from 1993, some agricultural tractors, which were previously classified with Plant and Equipment.

RELATED PUBLICATIONS

10 Data on new motor vehicle registrations are available in the monthly publication *New Motor Vehicle Registrations* (9301.0).

SYMBOLS AND OTHER
USAGES

11 r revised from previously published data
_ break in continuity of series

GLOSSARY

Annual percentage change A measure of the percentage change of 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% over two years. The formula for calculating annual percentage change is:

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

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

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. With or without a trailer the Gross Vehicle Mass (GVM) would be 3.5 tonnes or more.

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 scrapped vehicles 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 percentage of vehicles scrapped 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:

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

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	<p>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. Because the census reference date has differed over the years, the formula for calculation of vehicle age has been changed this year.</p> <p>For vehicles manufactured in current year Vehicle age = Reference month/24</p> <p>For vehicles manufactured in previous years Vehicle age = current year-Year of manufacture + (reference month -6)/12</p> <p>The average age is then calculated as the sum of all vehicle ages divided by the total number of vehicles.</p>
Buses	<p>Vehicles constructed for the carriage of passengers. Included are all passenger vehicles with 10 or more seats, including the driver's seat.</p>
Caravans	<p>Non-powered vehicles that are towed behind another vehicle and which are primarily used for accommodation purposes. Includes rigid and pop-up caravans, but excludes campervans, motor-homes or tent trailers.</p>
Estimated resident population (ERP)	<p>The official ABS estimate of the Australian population. It is based on results from the Population Census and is updated annually between censuses using demographic statistics. The census count is adjusted for underenumeration and for Australian residents temporarily overseas on census night to obtain ERP figures.</p>
Gross combination mass (GCM)	<p>The weight measurement used for articulated trucks. It is calculated using the tare weight of the prime mover and attached trailer(s) and the maximum carrying capacity of the attached trailer(s).</p>
Gross vehicle mass (GVM)	<p>The weight measurement used for any goods carrying vehicle. It is calculated using the tare weight and the maximum carrying capacity of the vehicle excluding trailers.</p>
Light commercial vehicles	<p>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).</p>
Make	<p>The manufacturer of the motor vehicle, e.g. Ford, Holden, Toyota.</p>
Model	<p>The variant of the make of a motor vehicle, e.g. Falcon, Commodore, Corolla.</p>
Motor cycles	<p>Vehicles constructed primarily for the carriage of one or two people. Included are two and three wheeled mopeds, scooters, motor tricycles and motor cycles with side cars.</p>

National Heavy Vehicle Registration Scheme	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 was introduced in all states during 1995 and 1996.
Non-freight carrying trucks	A truck which does not have a goods carrying capacity and is constructed for a particular purpose with special equipment fitted. Included are vehicles such as ambulances, campervans, fire-trucks, mobile cranes, tow trucks and cherry pickers.
Passenger vehicles	Vehicles constructed primarily for the carriage of up to nine occupants (including the driver). 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), excluding passenger vehicles, motor cycles, light commercial vehicles, buses and all 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	Vehicles constructed primarily for load carrying, with a GVM greater than 3.5 tonnes. Included are normal rigid trucks with a tow bar, draw bar or other non-articulated coupling on the rear for use with a trailer or dolly.
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 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.

GLOSSARY *continued*

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.

Type of vehicle

Classification of vehicles by the function that they have in common. For example, passenger vehicles, light commercial vehicles, rigid trucks, buses and motor cycles.



FUEL UP

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