



# MOTOR VEHICLE CENSUS

AUSTRALIA

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- For further information about these and related statistics, contact Geoff Pegg on Brisbane 07 3222 6119, or Client Services in any ABS office as shown on the back cover of this publication.

## NOTES

ABOUT THIS PUBLICATION	There has been a review in the classification of rigid trucks. See paragraph 5 of the Explanatory Notes for further details.
SYMBOLS AND OTHER USAGES	r            revised from previously published data
	—            break in continuity of series
	p.a.         per annum

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## 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 1998 was 11,737,923, 3.4% higher than recorded at the previous census taken at 31 October 1997. The growth rate between 31 October 1996 and 1997 was 2.3%.

### Total registrations by State and Territory

The number of registrations increased in all States and Territories except Tasmania and the Australian Capital Territory which recorded decreases of 0.9% and 1.2% respectively. Queensland (4.5%), Western Australia (4.5%), New South Wales (4.2%) and South Australia (4.1%) all recorded significant increases.

### New registrations and the attrition rate

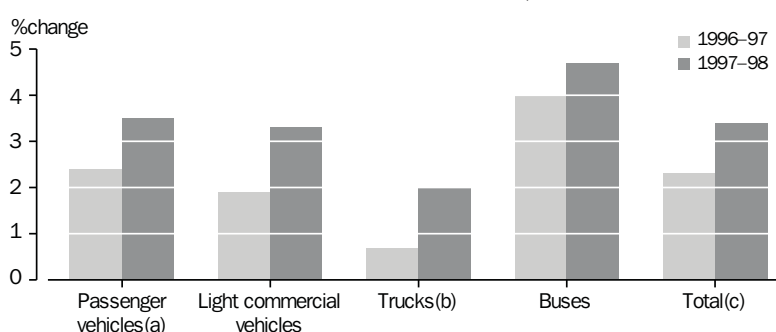
The attrition rate is the proportion of the total fleet taken off the register since the last census. See the Glossary for more details. Between 31 October 1997 and 31 October 1998 it was 3.3%. The attrition rate between 31 October 1996 and 1997 was 3.9%. The number of registration lapses between the 1997 and 1998 censuses was 33,710 per month compared to 36,872 per month between 1996 and 1997.

The rate of new vehicle registrations continues to increase. Between 1997 and 1998 an average of 65,929 new vehicles per month were registered. Between 1996 and 1997 the average monthly new registrations was 58,042. (See *New Motor Vehicle Registrations, Australia* (Cat. no. 9301.0) for monthly details of new registrations.)

### TYPE OF VEHICLE

The number of vehicles in each classification increased between 1997 and 1998, except rigid trucks with GVM 4.5 tonnes or less which declined by 0.7%. The vehicle types with the largest increases were articulated trucks (5.0%), buses (4.7%) and non-freight carrying trucks (4.5%).

ANNUAL PERCENTAGE INCREASE BY TYPE OF VEHICLE, 1996-98



(a) Includes campervans.

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

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

TYPE OF VEHICLE *continued*

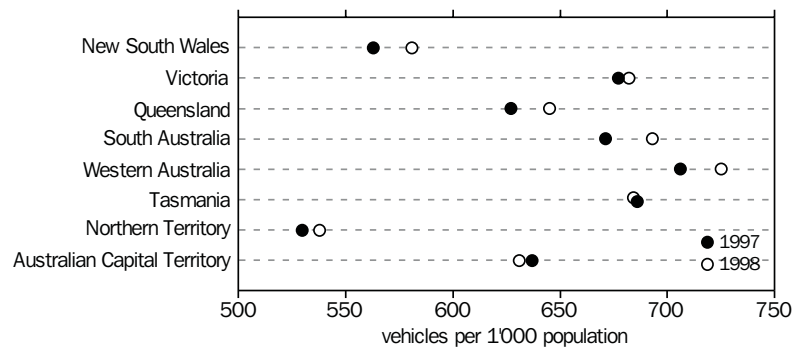
The number of motor cycles on register in Australia increased by 5.0% between 1997 and 1998. However, South Australia, the Northern Territory and the Australian Capital Territory each recorded falls. Registrations of plant and equipment (6.4%), caravans (1.6%) and trailers (4.6%) all increased overall, although there were declines in some States and Territories.

VEHICLES AND POPULATION

At 31 October 1998, there were 644 vehicles per 1,000 population, up from 630 at 31 October 1997, an increase of 2.2%. The rate of increase between the 1996 and 1997 censuses was 2.6%. Western Australia again recorded the highest rate of vehicle ownership (725 vehicles per 1,000 population), and the Northern Territory the lowest (538 per 1,000 population). All States and Territories recorded increased rates of ownership except Tasmania and the Australian Capital Territory.

Most of the increase in vehicles per head of population occurred in passenger vehicles which increased from 497 per 1,000 population in 1997 to 508 in 1998. Australia has had a high rate of passenger vehicle ownership compared to most other countries. The rate of ownership was 484 passenger vehicles per 1,000 persons in 1996, similar to that of the United States of America (488) and New Zealand (472), and above that of Canada (441), France (437), Great Britain (361) and Japan (342). (Source of international data: *World Road Statistics, 1999*).

NUMBER OF MOTOR VEHICLES ON REGISTER PER 1,000 POPULATION, STATE/TERRITORY OF REGISTRATION, 1997-98



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

TYPE OF FUEL

The number of vehicles using diesel and LPG/Dual fuel continues to rise more quickly than the overall fleet, rising 7.0% and 17.9%, respectively. Vehicles with these fuel types now constitute about 10% of the total fleet. The number of rigid and articulated trucks using petrol (leaded or unleaded) declined from 1997. Overall, vehicles using petrol increased by 2.9%. Unleaded petrol vehicles increased by 11.8% compensating for the 9.1% decline in leaded petrol vehicles. Although the number of leaded petrol vehicles continues to decline, they still make up about one in three of the total fleet.

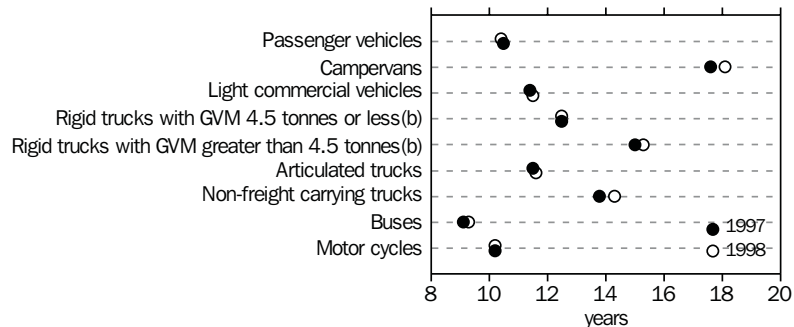
## AVERAGE AGE OF VEHICLES

The average age of the Australian vehicle fleet remained unchanged from 1997 to 1998, at 10.7 years. The average age had been rising steadily up to this time. The average age of passenger vehicles declined by 0.1 years to 10.4 years as at 31 October 1998. The average age of motor cycles (10.2 years) and rigid trucks with GVM 4.5 tonnes or less (12.5 years) was unchanged over the period, while all other vehicle types recorded increases in average age.

Tasmania (12.3 years), South Australia (12.1 years) and Victoria (11.3 years) had the oldest average age of fleet, although all recorded small reductions in average age from that of 1997. The Northern Territory (9.2 years) and New South Wales (9.7 years) had the lowest average ages.

Campervans were the oldest vehicle type. These vehicles were often converted from buses or light commercial vehicles after a number of years of operation.

ESTIMATED AVERAGE AGE(a) OF VEHICLE FLEET BY VEHICLE TYPE, 1997-98



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

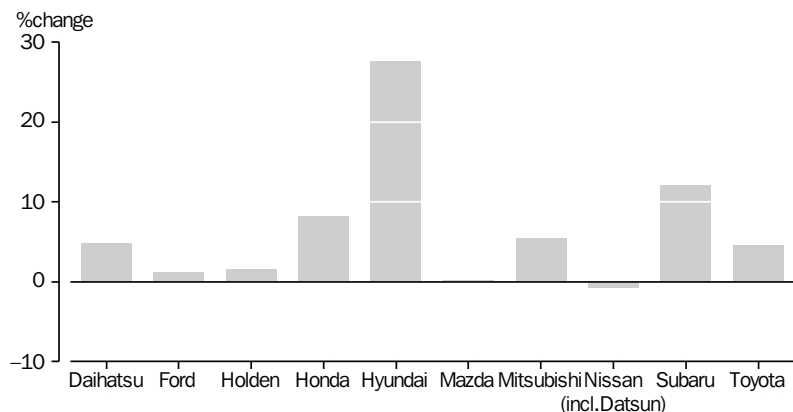
(b) The classification of rigid trucks has been reviewed. Data for 1997 have been amended. See paragraph 5 of the Explanatory Notes for more details.

## MAKE OF VEHICLE

### Passenger vehicles

Most of the top passenger vehicle makes recorded increased registrations from 1997. The exceptions were Chrysler (down 14.1%), Nissan (down 0.8%) and Volvo (down 0.2%). Daewoo continues to have a very high percentage growth (61.4%) from a comparatively low base. Ford and Holden have continued to grow by 1.1% and 1.6% respectively and these two makes retain large proportions of the total number of registrations (21.8% and 20.1% respectively). Growth of these two makes is restricted by attrition of older vehicles. Both have significant numbers of vehicles at least 12 years old. Nearly 40% of Ford vehicles (828,700) and 44% of Holden vehicles (846,100) are at least 12 years old. The next two largest manufacturers recorded higher rates of increase—Toyota rose 4.5% and Mitsubishi 5.5%. Other manufacturers to record significant percentage increases were Hyundai (27.7%), Land Rover (21.9%) and Subaru (12.0%).

ANNUAL PERCENTAGE CHANGE IN TOP 10 PASSENGER VEHICLE MAKES, 1997-98



**Light commercial vehicles** Toyota recorded strong growth in the percentage of registered light commercial vehicles (5.2%) and retained the most registrations (29.1% of light commercial vehicle registrations). Their main competitors, Holden (19.1% of registrations) and Ford (18.7% of registrations), recorded lower growth rates of 4.8% and 2.8% respectively. Other makes to record significant increases were Mitsubishi (7.8%) and Volkswagen (6.4%).

**Rigid trucks** There was a decline in the number of rigid trucks with GVM 4.5 tonnes or less (down 0.7%) between 1997 and 1998, continuing the fall recorded from 1996 to 1997. Two makes reported significant growth—Isuzu (13.0%) and Mitsubishi (12.2%). Toyota had a small fall in registrations (down 3.2%) but still had the most registrations in this group with 26.2% of the total.

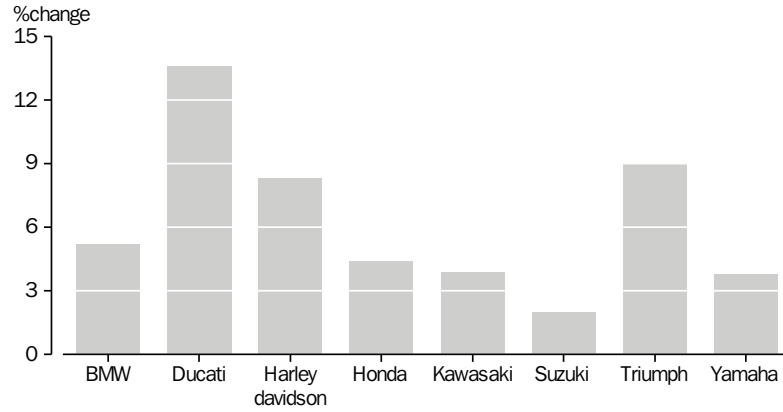
Growth occurred in numbers of rigid trucks with GVM greater than 4.5 tonnes (2.0%). Makes that recorded the biggest increases were Nissan UD (9.3%), Hino (7.6%), Isuzu (6.8%) and Volvo (6.5%). International had the most registrations of these vehicles, and their numbers were almost unchanged (up 0.1%).

**Articulated trucks** The number of articulated trucks increased at a faster rate than rigid trucks between 1997 and 1998 (5.0%). Kenworth retained their position as the top make of articulated trucks with 11,992 registrations. The number of Kenworths increased by 9.4%. Of the major makes, only Freightliner (40.0%) and Western Star (16.7%) had larger percentage increases.

**Buses** Toyota continued to have a large share of the bus fleet (54.8%), all of which were small or medium sized (see Glossary for definition of 'Size of bus'). The number of Toyota buses grew by 9.1% between 1997 and 1998. Mercedes Benz had the most registrations in the large bus category (27.2% of total large bus registrations) and overall increased their number of registrations by 4.5%.

Motor cycles The number of motor cycles increased by 5.0% between 1997 and 1998. All major manufacturers recorded increased registrations. The makes that had the highest increases in registrations, Ducati (13.6%), Triumph (9.0%) and Harley Davidson (8.3%), all specialise in mid to high powered motor cycles. Honda and Yamaha continued to be the top two makes with 28.3% and 20.6% respectively of total motor cycles on register in 1998.

ANNUAL PERCENTAGE CHANGE IN TOP 8 MOTOR CYCLE MAKES, 1997-98



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# 1

## MOTOR VEHICLES ON REGISTER, BY TYPE OF VEHICLE AT 31 OCTOBER

<i>Census Year</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
PASSENGER VEHICLES									
1996	2 775 659	2 462 226	1 567 301	796 109	922 598	240 993	62 452	161 798	8 989 136
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
CAMPERVANS									
1996	6 728	7 125	4 441	4 650	5 949	2 691	143	612	32 339
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
LIGHT COMMERCIAL VEHICLES									
1996	451 652	380 831	353 125	119 469	197 184	59 065	23 080	17 235	1 601 641
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	17 051	1 686 432
RIGID TRUCKS WITH GVM 4.5 TONNES OR LESS(a)									
1996	r 27 434	r 17 605	r 13 439	r 3 860	r 7 084	r 2 342	r 455	r 620	r 72 839
1997	r 27 096	r 17 557	r 13 548	r 3 614	r 7 005	r 2 269	r 435	r 607	r 72 131
1998	27 556	16 227	13 958	3 681	7 025	2 145	400	655	71 647
RIGID TRUCKS WITH GVM GREATER THAN 4.5 TONNES(a)									
1996	r 76 371	r 69 452	r 50 707	r 22 026	r 36 811	r 8 384	r 2 649	r 1 798	r 268 198
1997	r 77 664	r 69 478	r 51 158	r 22 246	r 36 978	r 8 189	r 2 772	r 1 796	r 270 281
1998	80 993	68 817	52 354	22 966	38 163	7 688	2 846	1 740	275 567
ARTICULATED TRUCKS									
1996	15 119	16 783	11 502	5 145	6 930	1 611	994	268	58 352
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
NON-FREIGHT CARRYING TRUCKS									
1996	2 726	5 164	2 683	1 858	2 448	828	157	117	15 981
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
BUSES									
1996	15 221	13 888	12 405	3 589	8 210	2 190	2 261	1 008	58 772
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	964	63 993
TOTAL MOTOR VEHICLES (EXCL. MOTOR CYCLES)									
1996	3 370 910	2 973 074	2 015 603	956 706	1 187 214	318 104	92 191	183 456	11 097 258
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	188 902	11 737 923

(a) The classification of rigid trucks has been reviewed. Data for Census years 1996 and 1997 have been amended. See paragraph 5 of the Explanatory Notes for more details.

## 2

## MOTOR CYCLES, PLANT AND EQUIPMENT, CARAVANS AND TRAILERS AT 31 OCTOBER

<i>Census Year</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
MOTOR CYCLES									
1996	77 947	77 161	66 445	27 769	37 783	7 415	3 975	5 356	303 851
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
PLANT AND EQUIPMENT									
1996	23 509	18 618	34 214	8 016	15 335	4 445	239	730	105 106
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
CARAVANS									
1996	56 730	92 478	39 316	29 330	36 407	5 306	692	1 416	261 675
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
TRAILERS									
1996	533 846	341 425	382 255	202 423	227 312	62 662	18 072	23 203	1 791 198
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

## 3

## MOTOR VEHICLES ON REGISTER PER 1,000 POPULATION AT 31 OCTOBER

Year(a)	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
PASSENGER VEHICLES									
1996	447	540	469	540	522	508	343	525	484
1997	453	548	473	542	532	508	346	547	497
1998	467	552	486	561	548	503	351	543	508
CAMPERVANS									
1996	1	2	1	3	3	6	1	2	2
1997	1	2	1	3	4	6	1	2	2
1998	1	2	1	3	4	6	1	2	2
LIGHT COMMERCIAL VEHICLES									
1996	73	84	106	81	112	124	127	56	86
1997	73	84	106	82	114	125	126	57	88
1998	76	84	109	84	115	126	128	55	90
ALL TRUCK TYPES									
1996	20	24	23	22	30	28	23	9	22
1997	20	24	23	22	30	27	22	9	23
1998	20	23	24	23	30	26	22	9	23
BUSES									
1996	2	3	4	2	5	5	12	3	3
1997	3	3	4	2	5	5	13	3	3
1998	3	3	4	3	5	5	15	3	3
MOTOR CYCLES									
1996	13	17	20	19	21	16	22	17	16
1997	13	17	20	19	22	16	21	19	17
1998	14	18	20	19	23	17	20	19	18
TOTAL MOTOR VEHICLES									
1996	556	669	624	667	694	686	529	613	614
1997	563	677	627	671	706	686	530	637	630
1998	581	682	645	693	725	684	538	631	644

(a) Population data are as at 30 June.

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

## 4 ESTIMATED AVERAGE AGE(a) OF THE VEHICLE FLEET(b) BY TYPE OF VEHICLE AT 31 OCTOBER

	1997	1998
<i>Type of vehicle</i>	<i>years</i>	<i>years</i>
Passenger vehicles	10.5	10.4
Campervans	17.6	18.1
Light commercial vehicles	11.4	11.5
Rigid trucks with GVM 4.5 tonnes or less (c)	12.5	12.5
Rigid trucks with GVM greater than 4.5 tonnes (c)	15.0	15.3
Articulated trucks	11.5	11.6
Non-freight carrying trucks	13.8	14.3
Buses	9.1	9.3
Motor cycles	10.2	10.2
<b>Total</b>	<b>10.7</b>	<b>10.7</b>

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

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

(c) The classification of rigid trucks has been reviewed. Data for 1997 have been amended. See paragraph 5 of the Explanatory Notes for more details.

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

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
<i>Type of vehicle</i>	<i>years</i>	<i>years</i>	<i>years</i>	<i>years</i>	<i>years</i>	<i>years</i>	<i>years</i>	<i>years</i>	<i>years</i>
Passenger vehicles	9.4	10.9	10.3	11.9	10.5	11.9	9.0	10.1	10.4
Campervans	16.9	18.8	16.1	18.6	19.5	18.1	15.7	18.1	18.1
Light commercial vehicles	10.6	12.4	11.1	12.6	11.5	12.9	9.8	10.8	11.5
Rigid trucks with GVM 4.5 tonnes or less	11.1	14.2	11.9	14.7	13.5	16.6	6.7	11.8	12.5
Rigid trucks with GVM greater than 4.5 tonnes	13.9	16.7	14.1	17.3	16.5	16.4	12.1	10.7	15.3
Articulated trucks	11.6	11.8	11.2	10.9	12.8	10.7	11.5	8.6	11.6
Non-freight carrying trucks	13.6	14.8	12.0	13.6	16.8	16.0	11.6	15.3	14.3
Buses	8.9	10.2	9.5	10.9	7.6	13.2	6.4	8.5	9.3
Motor cycles	9.5	10.0	10.9	(c) 9.9	11.4	10.2	8.6	9.9	10.2
<b>Total</b>	<b>9.7</b>	<b>11.3</b>	<b>10.6</b>	<b>12.1</b>	<b>10.9</b>	<b>12.3</b>	<b>9.2</b>	<b>10.2</b>	<b>10.7</b>

(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.

## 6

## MOTOR VEHICLES ON REGISTER, BY TYPE OF VEHICLE AND FUEL TYPE AT 31 OCTOBER

Type of vehicle	Fuel type						Total
	Petrol			Diesel	LPG/Dual fuel	Other/not stated	
	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(a)	r 20 953	r 4 103	r 25 056	r 45 254	r 1 772	r 49	r 72 131
Rigid trucks with GVM greater than 4.5 tonnes(a)	r 52 824	r 3 484	r 56 308	r 211 216	r 2 271	r 486	r 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
<b>Total</b>	<b>4 504 692</b>	<b>6 040 168</b>	<b>10 544 860</b>	<b>904 690</b>	<b>212 932</b>	<b>1 911</b>	<b>11 664 393</b>
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	661 851	1 260 202	361 457	64 548	225	1 686 432
Rigid trucks with GVM 4.5 tonnes and less(a)	18 637	3 804	22 441	47 453	1 735	18	71 647
Rigid trucks with GVM greater than 4.5 tonnes(a)	49 515	3 770	53 285	219 877	2 375	30	275 567
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	9 871	14 563	48 371	1 049	10	63 993
Motor cycles	126 911	201 920	328 831	—	—	14	328 845
<b>Total</b>	<b>4 093 519</b>	<b>6 752 637</b>	<b>10 846 156</b>	<b>968 356</b>	<b>251 069</b>	<b>1 187</b>	<b>12 066 768</b>

(a) The classification of rigid trucks has been reviewed. Data for 1997 have been amended. See paragraph 5 of the Explanatory Notes for more details.

## 7

## MOTOR VEHICLES, TYPE OF VEHICLE—YEAR OF MANUFACTURE

Year of manufacture	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
PASSENGER VEHICLES									
To 1970	49 978	66 868	31 788	26 398	25 314	6 843	939	3 311	211 439
1971–78	170 926	239 248	122 097	96 868	83 537	28 335	3 729	14 009	758 749
1979–82	290 207	330 386	212 509	117 201	121 788	34 705	6 621	18 390	1 131 807
1983–86	488 599	467 708	299 010	160 147	170 812	46 364	10 695	28 454	1 671 789
1987–89	395 843	342 009	216 969	105 764	129 026	29 247	7 822	20 706	1 247 386
1990–91	305 150	229 124	163 870	74 474	87 649	20 203	5 863	16 724	903 057
1992	145 849	105 264	78 329	33 823	47 691	9 689	3 187	8 315	432 147
1993	154 183	111 788	81 704	33 819	50 744	9 892	3 337	8 760	454 227
1994	180 654	121 981	90 286	36 164	55 005	10 535	4 107	8 997	507 729
1995	193 232	130 517	94 212	38 958	56 168	10 663	4 965	9 527	538 242
1996	186 293	134 705	90 032	36 888	56 980	9 953	4 465	8 799	528 115
1997	216 684	154 599	107 826	40 886	63 378	11 918	5 891	11 738	612 920
1998	176 235	139 354	87 692	33 422	55 917	9 139	5 087	9 842	516 688
Not stated	6 777	1 070	4 389	51	80	59	3	9	12 438
Total	2 960 610	2 574 621	1 680 713	834 863	1 004 089	237 545	66 711	167 581	9 526 733
CAMPERVANS									
To 1970	212	880	323	365	721	197	11	20	2 729
1971–78	2 404	2 695	1 517	1 968	2 831	1 055	41	238	12 749
1979–82	1 249	1 199	826	779	984	456	30	107	5 630
1983–86	1 429	1 016	894	800	1 080	556	22	91	5 888
1987–89	523	343	397	239	416	202	12	39	2 171
1990–91	272	222	225	161	226	92	2	16	1 216
1992	94	62	73	50	88	47	4	4	422
1993	131	70	100	54	83	43	2	9	492
1994	141	68	127	46	89	41	10	14	536
1995	92	86	101	48	59	29	10	7	432
1996	73	103	77	75	36	25	11	5	405
1997	88	99	303	63	20	22	—	2	597
1998	45	284	48	54	15	13	1	1	461
Not stated	65	10	6	4	3	—	3	—	91
Total	6 818	7 137	5 017	4 706	6 651	2 778	159	553	33 819
LIGHT COMMERCIAL VEHICLES									
To 1970	8 657	13 686	8 882	4 308	5 394	2 356	263	380	43 926
1971–78	49 018	60 579	44 759	20 269	29 684	9 987	2 007	1 958	218 261
1979–82	56 814	52 985	50 668	17 763	28 097	7 800	2 925	1 926	218 978
1983–86	79 898	73 241	59 809	22 339	33 273	11 406	4 283	2 902	287 151
1987–89	58 254	45 555	39 319	13 849	23 592	6 697	2 328	1 838	191 432
1990–91	46 791	27 941	33 362	10 066	15 635	4 871	2 061	1 593	142 320
1992	23 434	13 049	18 846	4 635	9 315	2 512	1 179	807	73 777
1993	21 793	14 360	18 570	4 524	10 205	2 267	1 360	779	73 858
1994	27 822	16 746	22 199	5 371	11 344	2 710	1 533	1 022	88 747
1995	27 120	17 217	20 061	5 375	11 093	2 488	1 726	905	85 985
1996	27 372	18 547	20 758	6 066	11 685	2 456	1 737	969	89 590
1997	28 268	18 932	21 712	5 822	11 290	2 276	1 611	1 109	91 020
1998	24 132	17 674	17 549	4 919	9 193	1 839	1 290	862	77 458
Not stated	2 240	241	1 379	17	27	23	1	1	3 929
Total	481 613	390 753	377 873	125 323	209 827	59 688	24 304	17 051	1 686 432

...continued

## 7

MOTOR VEHICLES, TYPE OF VEHICLE—YEAR OF MANUFACTURE—*continued*

<i>Year of manufacture</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
RIGID TRUCKS WITH GVM 4.5 TONNES AND LESS									
To 1970	540	981	388	226	394	176	3	11	2 719
1971–78	2 680	3 378	1 976	776	1 323	647	12	105	10 897
1979–82	3 349	2 283	1 882	522	906	301	10	88	9 341
1983–86	4 979	2 768	2 178	681	1 188	372	13	118	12 297
1987–89	4 730	2 171	2 000	478	949	236	49	76	10 689
1990–91	2 941	1 104	1 256	331	580	127	74	51	6 464
1992	1 228	391	656	105	227	37	53	27	2 724
1993	1 221	463	668	93	229	53	36	31	2 794
1994	1 434	529	777	99	259	55	26	30	3 209
1995	1 233	583	645	102	298	33	40	43	2 977
1996	933	433	490	90	222	41	24	19	2 252
1997	1 014	501	531	91	237	33	25	29	2 461
1998	1 081	618	463	87	212	33	35	27	2 556
Not stated	193	24	48	—	1	1	—	—	267
<i>Total</i>	27 556	16 227	13 958	3 681	7 025	2 145	400	655	71 647
RIGID TRUCKS WITH GVM GREATER THAN 4.5 TONNES									
To 1970	5 506	9 859	3 548	3 324	4 703	721	50	13	27 724
1971–78	13 049	14 356	8 466	5 182	9 132	1 780	311	145	52 421
1979–82	12 289	9 697	9 002	3 512	5 795	1 313	444	191	42 243
1983–86	14 828	11 792	9 726	4 315	6 046	1 607	713	402	49 429
1987–89	10 425	7 737	6 106	2 260	4 026	865	391	283	32 093
1990–91	5 851	3 865	3 496	1 326	1 938	399	238	143	17 256
1992	2 708	1 596	1 634	458	922	143	92	90	7 643
1993	2 309	1 515	1 768	394	889	125	82	79	7 161
1994	3 101	1 723	1 966	503	1 068	185	111	109	8 766
1995	2 658	1 524	1 660	463	949	176	116	73	7 619
1996	2 436	1 496	1 449	374	1 000	132	90	86	7 063
1997	2 632	1 879	1 644	479	885	142	113	76	7 850
1998	2 342	1 695	1 318	372	803	89	95	50	6 764
Not stated	859	83	571	4	7	11	—	—	1 535
<i>Total</i>	80 993	68 817	52 354	22 966	38 163	7 688	2 846	1 740	275 567
ARTICULATED TRUCKS									
To 1970	691	635	311	105	202	17	11	—	1 972
1971–78	2 582	2 961	1 767	812	1 285	161	104	14	9 686
1979–82	1 862	2 094	1 664	724	1 221	172	134	31	7 902
1983–86	2 116	2 207	1 636	844	1 174	291	142	28	8 438
1987–89	2 046	2 252	1 528	818	1 075	238	111	41	8 109
1990–91	1 100	906	768	466	453	130	47	17	3 887
1992	455	430	351	156	131	53	10	11	1 597
1993	689	734	578	241	244	50	28	17	2 581
1994	1 222	1 091	857	422	303	80	39	24	4 038
1995	1 081	1 100	737	357	322	87	58	16	3 758
1996	863	831	668	279	314	79	64	23	3 121
1997	951	1 024	802	338	319	81	50	17	3 582
1998	942	1 046	675	357	276	73	22	18	3 409
Not stated	153	15	19	4	1	2	—	—	194
<i>Total</i>	16 753	17 326	12 361	5 923	7 320	1 514	820	257	62 274

...continued



## 7

MOTOR VEHICLES, TYPE OF VEHICLE—YEAR OF MANUFACTURE—*continued*

<i>Year of manufacture</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
NON-FREIGHT CARRYING TRUCKS									
To 1970	160	604	108	138	485	108	5	11	1 619
1971–78	653	850	373	275	541	227	27	26	2 972
1979–82	496	627	431	189	335	120	25	10	2 233
1983–86	526	1 042	400	240	324	124	24	14	2 694
1987–89	293	842	310	268	230	82	26	11	2 062
1990–91	198	448	285	225	157	62	12	4	1 391
1992	106	207	154	71	110	36	12	2	698
1993	115	138	95	75	67	19	9	5	523
1994	154	88	128	75	69	34	9	2	559
1995	188	220	98	78	72	43	5	5	709
1996	151	267	185	93	105	35	12	5	853
1997	105	164	181	54	133	20	12	5	674
1998	98	137	64	14	67	17	6	1	404
Not stated	39	9	13	3	—	3	—	—	67
<b>Total</b>	<b>3 282</b>	<b>5 643</b>	<b>2 825</b>	<b>1 798</b>	<b>2 695</b>	<b>930</b>	<b>184</b>	<b>101</b>	<b>17 458</b>
BUSES									
To 1970	139	271	75	63	101	107	3	8	767
1971–78	971	997	1 146	486	516	398	42	42	4 598
1979–82	1 435	1 561	1 433	445	404	260	124	45	5 707
1983–86	1 978	2 824	1 799	676	749	338	241	89	8 694
1987–89	2 258	2 131	1 823	492	1 152	309	352	239	8 756
1990–91	2 183	1 383	1 443	341	1 295	226	336	176	7 383
1992	1 203	771	870	147	756	111	192	77	4 127
1993	1 150	693	808	170	787	99	242	38	3 987
1994	1 099	846	913	229	870	86	308	28	4 379
1995	1 229	884	963	189	889	114	261	48	4 577
1996	978	755	848	278	807	57	289	67	4 079
1997	894	757	798	202	613	49	289	52	3 654
1998	796	662	546	174	584	40	223	55	3 080
Not stated	190	7	7	—	1	—	—	—	205
<b>Total</b>	<b>16 503</b>	<b>14 542</b>	<b>13 472</b>	<b>3 892</b>	<b>9 524</b>	<b>2 194</b>	<b>2 902</b>	<b>964</b>	<b>63 993</b>
TOTAL MOTOR VEHICLES (excl. motor cycles)									
To 1970	65 883	93 784	45 423	34 927	37 314	10 525	1 285	3 754	292 895
1971–78	242 283	325 064	182 101	126 636	128 849	42 590	6 273	16 537	1 070 333
1979–82	367 701	400 832	278 415	141 135	159 530	45 127	10 313	20 788	1 423 841
1983–86	594 353	562 598	375 452	190 042	214 646	61 058	16 133	32 098	2 046 380
1987–89	474 372	403 040	268 452	124 168	160 466	37 876	11 091	23 233	1 502 698
1990–91	364 486	264 993	204 705	87 390	107 933	26 110	8 633	18 724	1 082 974
1992	175 077	121 770	100 913	39 445	59 240	12 628	4 729	9 333	523 135
1993	181 591	129 761	104 291	39 370	63 248	12 548	5 096	9 718	545 623
1994	215 627	143 072	117 253	42 909	69 007	13 726	6 143	10 226	617 963
1995	226 833	152 131	118 477	45 570	69 850	13 633	7 181	10 624	644 299
1996	219 099	157 137	114 507	44 143	71 149	12 778	6 692	9 973	635 478
1997	250 636	177 955	133 797	47 935	76 875	14 541	7 991	13 028	722 758
1998	205 671	161 470	108 355	39 399	67 067	11 243	6 759	10 856	610 820
Not stated	10 516	1 459	6 432	83	120	99	7	10	18 726
<b>Total</b>	<b>3 594 128</b>	<b>3 095 066</b>	<b>2 158 573</b>	<b>1 003 152</b>	<b>1 285 294</b>	<b>314 482</b>	<b>98 326</b>	<b>188 902</b>	<b>11 737 923</b>

## 8

PASSENGER VEHICLES ON REGISTER, BY MAKE OF VEHICLE AT 31  
OCTOBER

<i>Make</i>	<i>1997</i>	<i>1998</i>
BMW	89 012	97 269
Chrysler	124 544	106 949
Daewoo	38 317	61 861
Daihatsu	124 898	130 934
Ford	2 052 586	2 075 251
Holden	1 879 949	1 910 794
Honda	227 790	246 508
Hyundai	217 972	278 263
Jaguar	23 894	24 128
Land Rover	24 612	29 991
Mazda	435 055	436 024
Mercedes-Benz	96 823	103 526
Mitsubishi	885 348	934 072
Nissan (incl. Datsun)	745 622	739 754
Peugeot	33 531	35 308
Saab	30 668	33 335
Subaru	139 996	156 780
Suzuki	97 737	105 508
Toyota	1 522 702	1 590 833
Volkswagen	64 802	65 831
Volvo	94 323	94 127
Other/not stated	256 055	269 687
<b>Total</b>	<b>9 206 236</b>	<b>9 526 733</b>

## 9

## PASSENGER VEHICLES ON REGISTER, BY MAKE OF VEHICLE—YEAR OF MANUFACTURE

<i>Make</i>	<i>1978 and earlier</i>	<i>1979–82</i>	<i>1983–86</i>	<i>1987–89</i>	<i>1990–93</i>	<i>1994–96</i>	<i>1997</i>	<i>1998</i>	<i>Not stated</i>	<i>Total</i>
BMW	6 241	7 637	15 256	10 289	18 452	23 125	9 231	6 904	134	97 269
Chrysler	65 185	35 429	137	17	17	1 116	3 123	1 606	319	106 949
Daewoo	—	—	—	3	10	27 740	16 678	17 430	—	61 861
Daihatsu	197	5 421	14 363	12 255	57 806	28 062	7 188	5 535	107	130 934
Ford	162 078	238 207	428 439	325 775	394 095	336 466	108 896	79 164	2 131	2 075 251
Holden	262 143	269 588	314 351	243 142	315 089	311 327	97 260	94 680	3 214	1 910 794
Honda	14 681	27 838	32 256	37 205	50 076	45 577	18 174	20 475	226	246 508
Hyundai	7	2	1 908	15 537	45 476	108 488	59 519	47 296	30	278 263
Jaguar	11 257	2 572	3 918	3 078	1 043	1 147	562	468	83	24 128
Land Rover	1 835	505	995	201	5 037	12 125	5 164	4 107	22	29 991
Mazda	40 468	83 310	92 488	35 053	81 074	62 678	24 263	16 293	397	436 024
Mercedes-Benz	29 951	13 869	15 375	10 049	10 215	11 972	5 674	6 147	274	103 526
Mitsubishi	2 217	91 948	185 305	152 194	212 268	166 783	71 568	51 195	594	934 072
Nissan (incl. Datsun)	79 056	116 201	152 471	129 077	150 028	55 474	26 852	29 542	1 053	739 754
Peugot	6 933	4 950	5 378	1 992	2 996	7 719	2 853	2 414	73	35 308
Saab	854	1 174	4 190	5 322	6 963	9 247	3 129	2 424	32	33 335
Subaru	1 533	15 554	31 289	11 565	41 506	24 370	14 639	16 157	167	156 780
Suzuki	173	3 577	13 186	9 392	33 407	30 703	9 023	5 992	55	105 508
Toyota	114 777	169 468	314 485	217 305	335 441	257 071	93 118	87 593	1 575	1 590 833
Volkswagen	45 394	2 568	807	638	1 495	5 511	4 799	4 231	388	65 831
Volvo	19 080	20 785	19 081	10 076	8 701	9 540	4 041	2 704	119	94 127
Other/not stated	106 128	21 204	26 111	17 221	18 236	37 845	27 166	14 331	1 445	269 687
<b>Total</b>	<b>970 188</b>	<b>1 131 807</b>	<b>1 671 789</b>	<b>1 247 386</b>	<b>1 789 431</b>	<b>1 574 086</b>	<b>612 920</b>	<b>516 688</b>	<b>12 438</b>	<b>9 526 733</b>

## 10

CAMPERVANS ON REGISTER, BY MAKE OF VEHICLE AT  
31 OCTOBER

<i>Make</i>	<i>1997</i>	<i>1998</i>
Bedford	2 226	2 220
Ford	2 316	2 467
Mazda	2 617	2 836
Mitsubishi	867	887
Nissan (incl. Datsun)	3 674	3 623
Toyota	10 862	11 216
Volkswagen	7 152	6 865
Other/not stated	3 577	3 705
<b>Total</b>	<b>33 291</b>	<b>33 819</b>

# 11

## CAMPERVANS ON REGISTER, BY MAKE OF VEHICLE—YEAR OF MANUFACTURE

<i>Make</i>	<i>1978 and earlier</i>	<i>1979-82</i>	<i>1983-86</i>	<i>1987-89</i>	<i>1990-93</i>	<i>1994-96</i>	<i>1997</i>	<i>1998</i>	<i>Not stated</i>	<i>Total</i>
Bedford	2 080	127	—	—	—	—	—	—	13	2 220
Ford	909	233	291	100	257	316	299	57	5	2 467
Mazda	268	405	911	358	435	274	114	66	5	2 836
Mitsubishi	3	167	247	166	167	124	8	1	4	887
Nissan (incl. Datsun)	995	749	1 318	400	136	16	—	—	9	3 623
Toyota	2 855	3 326	2 694	899	853	334	49	178	28	11 216
Volkswagen	6 033	301	171	136	110	78	10	8	18	6 865
Other/not stated	2 335	322	256	112	172	231	117	151	9	3 705
<b>Total</b>	<b>15 478</b>	<b>5 630</b>	<b>5 888</b>	<b>2 171</b>	<b>2 130</b>	<b>1 373</b>	<b>597</b>	<b>461</b>	<b>91</b>	<b>33 819</b>

# 12

## LIGHT COMMERCIAL VEHICLES ON REGISTER, BY MAKE OF VEHICLE AT 31 OCTOBER

<i>Make</i>	<i>1997</i>	<i>1998</i>
Chrysler	7 188	6 387
Daihatsu	22 531	20 847
Ford	306 810	315 496
Holden	307 756	322 679
Land Rover	19 625	18 982
Leyland	5 269	4 906
Mazda	82 215	84 318
Mitsubishi	129 703	139 854
Nissan (incl. Datsun)	172 362	174 663
Subaru	21 466	21 115
Suzuki	36 953	33 853
Toyota	466 840	491 047
Volkswagen	19 119	20 343
Other/not stated	34 382	31 942
<b>Total</b>	<b>1 632 219</b>	<b>1 686 432</b>

# 13

## LIGHT COMMERCIAL VEHICLES ON REGISTER, BY MAKE OF VEHICLE—YEAR OF MANUFACTURE

<i>Make</i>	<i>1978 and earlier</i>	<i>1979-82</i>	<i>1983-86</i>	<i>1987-89</i>	<i>1990-93</i>	<i>1994-96</i>	<i>1997</i>	<i>1998</i>	<i>Not stated</i>	<i>Total</i>
Chrysler	5 520	836	2	1	—	—	—	—	28	6 387
Daihatsu	2 347	5 817	7 271	3 589	1 176	537	45	6	59	20 847
Ford	42 933	37 709	52 899	49 465	48 438	52 142	17 804	13 529	577	315 496
Holden	102 182	47 456	25 966	11 093	44 883	51 496	20 749	17 976	878	322 679
Land Rover	13 481	1 859	316	113	454	1 798	537	238	186	18 982
Leyland	3 079	1 772	41	6	1	—	—	—	7	4 906
Mazda	6 017	9 661	18 970	7 584	15 485	16 993	5 173	4 306	129	84 318
Mitsubishi	40	11 653	23 679	20 539	39 801	26 876	9 009	8 132	125	139 854
Nissan (incl. Datsun)	17 153	28 642	43 616	29 684	26 542	16 521	6 098	6 080	327	174 663
Subaru	151	1 034	3 817	6 697	9 325	21	—	—	70	21 115
Suzuki	2 300	9 466	14 037	4 117	1 501	1 736	395	216	85	33 853
Toyota	42 203	57 800	91 055	57 287	99 281	90 153	28 189	24 066	1 013	491 047
Volkswagen	8 979	592	467	825	1 393	4 416	2 176	1 458	37	20 343
Other/not stated	15 802	4 681	5 015	432	1 675	1 633	845	1 451	408	31 942
<b>Total</b>	<b>262 187</b>	<b>218 978</b>	<b>287 151</b>	<b>191 432</b>	<b>289 955</b>	<b>264 322</b>	<b>91 020</b>	<b>77 458</b>	<b>3 929</b>	<b>1 686 432</b>

# 14

## RIGID TRUCKS WITH GVM 4.5 TONNES AND LESS(a), BY MAKE OF VEHICLE AT 31 OCTOBER

<i>Make</i>	<i>1997</i>	<i>1998</i>
Chevrolet	r 1 791	1 796
Daihatsu	r 10 835	10 677
Ford	r 12 767	11 894
Isuzu	r 8 697	9 828
Mazda	r 5 376	5 467
Mitsubishi	r 6 994	7 846
Nissan (incl. Datsun)	r 2 039	1 847
Toyota	r 19 362	18 749
Other/not stated	r 4 270	3 543
<b>Total</b>	<b>r 72 131</b>	<b>71 647</b>

(a) The classification of rigid trucks has been reviewed. Data for 1997 have been amended. See paragraph 5 of the Explanatory Notes for more details.

# 15

## RIGID TRUCKS WITH GVM 4.5 TONNES OR LESS(a) ON REGISTER, BY MAKE OF VEHICLE—YEAR OF MANUFACTURE

<i>Make</i>	<i>1978 and earlier</i>	<i>1979–82</i>	<i>1983–86</i>	<i>1987–89</i>	<i>1990–93</i>	<i>1994–96</i>	<i>1997</i>	<i>1998</i>	<i>Not stated</i>	<i>Total</i>
Chevrolet	1 068	518	25	32	50	47	34	8	14	1 796
Daihatsu	1 260	2 421	2 796	1 710	1 355	832	133	122	48	10 677
Ford	2 479	1 774	2 654	1 472	1 753	1 185	341	199	37	11 894
Isuzu	62	227	890	1 944	2 602	2 248	980	856	19	9 828
Mazda	659	557	882	1 028	1 122	878	162	167	12	5 467
Mitsubishi	10	101	818	1 621	2 403	1 879	492	506	16	7 846
Nissan (incl. Datsun)	790	310	417	205	119	—	—	1	5	1 847
Toyota	4 620	3 370	3 794	2 665	2 563	1 160	166	340	71	18 749
Other/not stated	2 668	63	21	12	15	209	153	357	45	3 543
<b>Total</b>	<b>13 616</b>	<b>9 341</b>	<b>12 297</b>	<b>10 689</b>	<b>11 982</b>	<b>8 438</b>	<b>2 461</b>	<b>2 556</b>	<b>267</b>	<b>71 647</b>

(a) The classification of rigid trucks has been reviewed. See paragraph 5 of the Explanatory Notes for more details.

# 16

## RIGID TRUCKS WITH GVM GREATER THAN 4.5 TONNES(a), BY MAKE OF VEHICLE AT 31 OCTOBER

<i>Make</i>	<i>1997</i>	<i>1998</i>
Bedford	r 15 307	14 279
Dodge	r 11 374	10 788
Ford	r 30 563	30 296
Hino	21 388	23 011
International	r 47 563	47 628
Isuzu	r 43 643	46 599
Mazda	r 10 613	10 503
Mercedes-Benz	4 888	4 941
Mitsubishi	r 28 932	30 216
Nissan UD (diesel)	8 676	9 483
Toyota	r 13 251	12 929
Volvo	7 614	8 107
Other/not stated	r 12 128	26 787
<b>Total</b>	<b>r 270 281</b>	<b>275 567</b>

(a) The classification of rigid trucks has been reviewed. Data for 1997 have been amended. See paragraph 5 of the Explanatory Notes for more details.

## 17

## RIGID TRUCKS WITH GVM GREATER THAN 4.5 TONNES(a), BY MAKE OF VEHICLE—YEAR OF MANUFACTURE

Make	1978	1979-82	1983-86	1987-89	1990-93	1994-96	1997	1998	Not	Total
	and earlier								stated	
Bedford	13 328	727	—	—	—	—	—	—	224	14 279
Dodge	10 089	598	3	1	2	2	4	1	88	10 788
Ford	10 599	5 846	5 538	3 368	2 535	1 501	413	296	200	30 296
Hino	868	3 119	6 277	3 587	4 187	2 731	1 085	1 078	79	23 011
International	25 168	9 130	3 949	2 984	2 373	2 541	629	427	427	47 628
Isuzu	1 715	6 524	11 168	7 088	8 969	6 465	2 471	2 081	118	46 599
Mazda	1 122	857	3 226	1 923	1 938	1 000	235	180	22	10 503
Mercedes-Benz	1 302	635	1 224	628	774	332	20	8	18	4 941
Mitsubishi	106	3 928	8 155	5 643	5 881	4 019	1 317	1 100	67	30 216
Nissan UD (diesel)	702	1 123	1 867	1 620	1 565	1 344	582	648	32	9 483
Toyota	2 721	2 776	2 865	1 905	1 465	857	140	136	64	12 929
Volvo	1 561	1 479	1 444	1 110	1 120	854	270	252	17	8 107
Other/not stated	10 864	5 501	3 713	2 236	1 251	1 802	684	557	179	26 787
<b>Total</b>	<b>80 145</b>	<b>42 243</b>	<b>49 429</b>	<b>32 093</b>	<b>32 060</b>	<b>23 448</b>	<b>7 850</b>	<b>6 764</b>	<b>1 535</b>	<b>275 567</b>

(a) The classification of rigid trucks has been reviewed. See paragraph 5 of the Explanatory Notes for more details.

## 18

## RIGID TRUCKS ON REGISTER, BY MAKE OF VEHICLE—GROSS VEHICLE MASS

Make	GVM (tonnes)								Not stated	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	626	1 869	2 852	3 977	2 998	2 192	191	200	—	14 905
Daihatsu	10 677	3 807	59	—	—	—	—	—	—	14 543
Dodge	960	2 075	2 352	1 528	3 072	1 332	312	117	—	11 748
Ford	11 894	6 094	7 263	2 464	3 391	4 664	296	6 124	—	42 190
Hino	—	34	1 122	7 404	3 540	8 996	197	1 718	—	23 011
International	1 246	1 525	3 734	5 118	6 464	14 153	2 891	13 743	—	48 874
Isuzu	9 828	6 241	8 853	15 346	3 534	10 152	219	2 254	—	56 427
Mazda	5 467	4 457	5 980	44	17	3	—	2	—	15 970
Mercedes-Benz	275	13	90	197	227	1 478	217	2 719	—	5 216
Mitsubishi	7 846	7 758	1 621	6 743	2 404	8 830	87	2 773	—	38 062
Nissan (incl. Datsun)	1 847	1 030	185	—	—	—	—	—	—	3 062
Nissan UD (diesel)	—	1	1	3 182	486	2 755	124	2 934	—	9 483
Toyota	18 749	7 984	2 828	249	1 323	540	3	2	—	31 678
Volvo	—	—	—	—	—	857	248	7 002	—	8 107
Other/not stated	2 232	1 307	1 216	1 971	1 894	3 117	856	11 345	—	23 938
<b>Total</b>	<b>71 647</b>	<b>44 195</b>	<b>38 156</b>	<b>48 223</b>	<b>29 350</b>	<b>59 069</b>	<b>5 641</b>	<b>50 933</b>	<b>—</b>	<b>347 214</b>

# 19

## ARTICULATED TRUCKS ON REGISTER, BY MAKE OF VEHICLE AT 31 OCTOBER

<i>Make</i>	1997	1998
Atkinson	864	843
Ford	6 063	6 349
Freightliner	1 580	2 212
International	9 580	9 849
Kenworth	10 962	11 992
Mack	7 341	7 786
Mercedes-Benz	4 338	4 233
Mitsubishi	695	708
Nissan UD (diesel)	1 568	1 522
Scania	3 860	3 923
Volvo	6 510	6 627
Western Star	1 995	2 329
White	1 231	1 211
Other/not stated	2 705	2 690
<b>Total</b>	<b>59 292</b>	<b>62 274</b>

# 20

## ARTICULATED TRUCKS ON REGISTER, BY MAKE OF VEHICLE—YEAR OF MANUFACTURE

<i>Make</i>	1978 and earlier	1979–82	1983–86	1987–89	1990–93	1994–96	1997	1998	Not stated	<i>Total</i>
Atkinson	434	185	184	38	—	—	—	—	2	843
Ford	646	747	1 027	1 115	928	1 212	370	293	11	6 349
Freightliner	—	—	—	63	423	870	401	454	1	2 212
International	2 166	1 675	1 259	1 095	1 040	1 657	482	427	48	9 849
Kenworth	1 782	1 563	1 565	1 630	1 559	2 186	855	831	21	11 992
Mack	1 245	932	925	1 120	921	1 681	493	454	15	7 786
Mercedes-Benz	1 831	417	739	448	410	298	21	46	23	4 233
Mitsubishi	5	21	220	220	129	77	18	18	—	708
Nissan UD (diesel)	297	271	322	221	201	120	47	42	1	1 522
Scania	287	369	833	673	672	642	225	214	8	3 923
Volvo	988	800	857	997	1 249	1 061	372	278	25	6 627
Western Star	1	1	150	292	404	977	223	276	5	2 329
White	597	606	—	—	—	—	—	—	8	1 211
Other/not stated	1 379	315	357	197	129	136	75	76	26	2 690
<b>Total</b>	<b>11 658</b>	<b>7 902</b>	<b>8 438</b>	<b>8 109</b>	<b>8 065</b>	<b>10 917</b>	<b>3 582</b>	<b>3 409</b>	<b>194</b>	<b>62 274</b>



## 21

### NON-FREIGHT CARRYING TRUCKS ON REGISTER, BY MAKE OF VEHICLE AT 31 OCTOBER

<i>Make</i>	1997	1998
Bedford	500	512
Ford	4 799	4 660
Hino	1 382	1 555
Holden	540	545
International	2 623	2 695
Isuzu	1 817	1 904
Mitsubishi	506	570
Toyota	1 467	1 613
Other/not stated	3 065	3 404
<b>Total</b>	<b>16 699</b>	<b>17 458</b>

## 22

### NON-FREIGHT CARRYING TRUCKS ON REGISTER, BY MAKE OF VEHICLE—YEAR OF MANUFACTURE

<i>Make</i>	1978 and earlier	1979–82	1983–86	1987–89	1990–93	1994–96	1997	1998	Not stated	<i>Total</i>
Bedford	443	66	—	—	—	—	—	—	3	512
Ford	1 103	768	785	476	965	298	205	46	14	4 660
Hino	6	37	339	344	400	314	65	46	4	1 555
Holden	165	65	19	9	15	180	52	37	3	545
International	1 373	605	411	129	83	64	20	3	7	2 695
Isuzu	26	119	337	493	345	462	76	41	5	1 904
Mitsubishi	1	45	124	90	131	133	28	17	1	570
Toyota	152	175	178	177	341	371	115	99	5	1 613
Other/not stated	1 322	353	501	344	332	299	113	115	25	3 404
<b>Total</b>	<b>4 591</b>	<b>2 233</b>	<b>2 694</b>	<b>2 062</b>	<b>2 612</b>	<b>2 121</b>	<b>674</b>	<b>404</b>	<b>67</b>	<b>17 458</b>

## 23

## BUSES ON REGISTER, BY MAKE OF VEHICLE AT 31 OCTOBER

<i>Make</i>	<i>1997</i>	<i>1998</i>
Bedford	2 209	1 989
Denning	1 066	1 042
Hino	3 077	3 155
Leyland	1 691	1 538
MAN	1 825	1 920
Mazda	2 459	2 323
Mercedes-Benz	5 237	5 473
Nissan (incl. Datsun)	3 042	2 967
Scania	1 159	1 295
Toyota	32 143	35 062
Volvo	2 683	2 744
Other/not stated	4 552	4 485
<b>Total</b>	<b>61 143</b>	<b>63 993</b>

## 24

## BUSES ON REGISTER, BY MAKE OF VEHICLE—YEAR OF MANUFACTURE

<i>Make</i>	<i>1978 and earlier</i>	<i>1979–82</i>	<i>1983–86</i>	<i>1987–89</i>	<i>1990–93</i>	<i>1994–96</i>	<i>1997</i>	<i>1998</i>	<i>Not stated</i>	<i>Total</i>
Bedford	1 455	517	—	—	—	—	—	—	17	1 989
Denning	201	243	288	207	76	17	—	—	10	1 042
Hino	286	433	598	431	679	526	82	88	32	3 155
Leyland	752	316	278	119	30	2	1	10	30	1 538
MAN	137	375	300	282	206	432	121	66	1	1 920
Mazda	78	259	737	455	598	188	1	—	7	2 323
Mercedes-Benz	502	843	1 143	782	715	1 010	271	179	28	5 473
Nissan (incl. Datsun)	137	185	738	570	761	387	111	76	2	2 967
Scania	—	—	154	189	305	377	163	98	9	1 295
Toyota	579	1 568	3 105	4 401	10 954	9 371	2 704	2 340	40	35 062
Volvo	524	412	524	388	420	274	80	113	9	2 744
Other/not stated	714	556	829	932	753	451	120	110	20	4 485
<b>Total</b>	<b>5 365</b>	<b>5 707</b>	<b>8 694</b>	<b>8 756</b>	<b>15 497</b>	<b>13 035</b>	<b>3 654</b>	<b>3 080</b>	<b>205</b>	<b>63 993</b>

## 25

### BUSES ON REGISTER, BY MAKE OF VEHICLE—SIZE OF BUS(a)

<i>Make</i>	<i>Small</i>	<i>Medium</i>	<i>Large</i>	<i>Not stated</i>	<i>Total</i>
Bedford	21	1 683	285	—	1 989
Denning	—	27	1 015	—	1 042
Hino	—	1 315	1 840	—	3 155
Leyland	2	310	1 224	2	1 538
MAN	—	291	1 629	—	1 920
Mazda	2 223	83	—	17	2 323
Mercedes-Benz	—	687	4 785	1	5 473
Nissan (incl. Datsun)	2 310	624	18	15	2 967
Scania	—	—	1 295	—	1 295
Toyota	33 425	1 637	—	—	35 062
Volvo	—	123	2 621	—	2 744
Other/not stated	476	1 099	2 907	3	4 485
<b>Total</b>	<b>38 457</b>	<b>7 879</b>	<b>17 619</b>	<b>38</b>	<b>63 993</b>

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

## 26

### MOTOR CYCLES ON REGISTER, BY YEAR OF MANUFACTURE

<i>Year of manufacture</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
To 1970	1 594	1 906	1 941	945	1 865	144	57	80	8 532
1971–78	5 265	5 404	5 663	1 021	3 427	573	165	337	21 855
1979–82	11 359	10 659	10 282	1 254	5 800	1 065	369	862	41 650
1983–86	14 152	14 275	11 537	1 414	7 045	1 607	555	1 087	51 672
1987–89	8 442	7 729	7 881	945	4 718	787	413	610	31 525
1990–91	7 738	6 666	6 476	1 772	3 562	676	402	509	27 801
1992	3 345	3 336	3 103	1 016	1 659	342	181	221	13 203
1993	4 104	3 524	3 315	1 036	1 871	451	214	236	14 751
1994	5 272	4 024	3 765	1 204	2 097	448	253	284	17 347
1995	6 983	5 290	4 516	1 599	2 523	518	332	355	22 116
1996	7 262	5 858	4 497	1 469	2 699	632	343	457	23 217
1997	7 908	7 035	4 429	1 608	2 823	626	353	542	25 324
1998	4 830	6 243	2 748	989	1 818	337	230	263	17 458
Not stated	254	375	118	11 636	2	7	2	—	12 394
<b>Total</b>	<b>88 508</b>	<b>82 324</b>	<b>70 271</b>	<b>27 908</b>	<b>41 909</b>	<b>8 213</b>	<b>3 869</b>	<b>5 843</b>	<b>328 845</b>

## 27

### MOTOR CYCLES ON REGISTER, BY MAKE OF VEHICLE AT 31 OCTOBER

<i>Make</i>	<i>1997</i>	<i>1998</i>
BMW	13 174	13 865
Ducati	6 426	7 303
Harley Davidson	31 091	33 670
Honda	89 088	93 011
Kawasaki	43 237	44 916
Suzuki	45 354	46 274
Triumph	5 997	6 535
Yamaha	65 388	67 883
Other/not stated	13 346	15 388
<b>Total</b>	<b>313 101</b>	<b>328 845</b>

## 28

### MOTOR CYCLES ON REGISTER, BY MAKE OF VEHICLE—YEAR OF MANUFACTURE

<i>Make</i>	<i>1978 and earlier</i>	<i>1979–82</i>	<i>1983–86</i>	<i>1987–89</i>	<i>1990–93</i>	<i>1994–96</i>	<i>1997</i>	<i>1998</i>	<i>Not stated</i>	<i>Total</i>
BMW	1 627	1 355	3 854	1 171	1 864	2 366	668	536	424	13 865
Ducati	1 276	1 134	663	342	785	1 458	902	528	215	7 303
Harley Davidson	4 535	2 026	2 657	2 881	7 522	9 140	2 346	1 934	629	33 670
Honda	6 602	13 035	15 882	8 333	13 272	18 475	8 706	4 883	3 823	93 011
Kawasaki	2 332	4 545	7 660	5 632	9 882	8 306	3 022	2 004	1 533	44 916
Suzuki	1 924	8 509	9 203	4 866	8 892	5 486	3 566	1 928	1 900	46 274
Triumph	3 255	496	74	29	271	1 330	475	456	149	6 535
Yamaha	3 296	9 670	10 593	7 525	12 054	13 287	4 242	3 858	3 358	67 883
Other/not stated	5 540	880	1 086	746	1 213	2 832	1 397	1 331	363	15 388
<b>Total</b>	<b>30 387</b>	<b>41 650</b>	<b>51 672</b>	<b>31 525</b>	<b>55 755</b>	<b>62 680</b>	<b>25 324</b>	<b>17 458</b>	<b>12 394</b>	<b>328 845</b>

## EXPLANATORY NOTES

### MOTOR VEHICLE CENSUS

**1** This publication contains statistics relating to vehicles which were on register at 31 October 1998 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** Rigid truck categories have been changed for this publication to reclassify rigid trucks with exactly 4.5 tonnes Gross Vehicle Mass (GVM). In the previous publication, rigid trucks were split into those with GVM less than 4.5 tonnes, and those with GVM 4.5 tonnes and over. Rigid trucks with exactly 4.5 tonnes GVM were included in 'Rigid trucks with GVM 4.5 tonnes and over'. In this publication, rigid trucks have been reclassified into 'Rigid trucks with GVM 4.5 tonnes or less', and 'Rigid trucks with GVM greater than 4.5 tonnes'. The change has been made to be consistent with the National Heavy Vehicle Registration Scheme, which applies to vehicles greater than, but not equal to, 4.5 tonnes.

**6** 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.

MOTOR VEHICLE CENSUS  
*continued*

**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 States 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 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  
AND PRODUCTS

**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). Small area motor vehicle Census data are available on CD-ROM in *TranStats* (Cat. no. 9312.0.30.001).

## 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:

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

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** Motor vehicles constructed primarily for load carrying, consisting of a prime mover which has 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:

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

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.

<b>Average vehicle age</b>	<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. The formula allows for the census being run on different days of the 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>
<b>Buses</b>	Motor vehicles constructed for the carriage of passengers. Included are all motor vehicles with 10 or more seats, including the driver's seat.
<b>Campervans</b>	Self-propelled motor vehicles that contain an area primarily used for accommodation. Included are campervans, motor homes, powered caravans and mobile homes.
<b>Caravans</b>	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.
<b>Estimated Resident Population (ERP)</b>	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 under enumeration and for Australian residents temporarily overseas on census night to obtain ERP figures.
<b>Federal Interstate Registration Scheme (FIRS)</b>	A system for registering articulated trucks and trailers for interstate freight transport. It runs parallel with the National Heavy Vehicle Registration Scheme.
<b>Gross Combination Mass (GCM)</b>	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.
<b>Gross Vehicle Mass (GVM)</b>	Tare weight (i.e. unladen weight) of the motor vehicle, plus its maximum carrying capacity excluding trailers.
<b>Light commercial vehicles</b>	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).
<b>Make</b>	The manufacturer of the motor vehicle, e.g. Ford, Holden, Mitsubishi.
<b>Model</b>	The variant of the make of a motor vehicle, e.g. Falcon, Commodore, Magna.



<b>Motor cycles</b>	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.
<b>National Heavy Vehicle Registration Scheme (NHVRS)</b>	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.
<b>Non-freight carrying trucks</b>	Specialist motor vehicles or motor vehicles fitted with special purpose equipment, and having little or no goods carrying capacity, eg. ambulances, cherry pickers, fire trucks and tow trucks.
<b>Passenger vehicles</b>	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.
<b>Plant and equipment</b>	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, 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.
<b>Population Census</b>	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.
<b>Rigid trucks</b>	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: <ul style="list-style-type: none"> <li>■ Rigid trucks with GVM 4.5 tonnes or less</li> <li>■ Rigid trucks with GVM greater than 4.5 tonnes</li> </ul>

- 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.
- 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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