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**SURVEY OF MOTOR VEHICLE USE  
AUSTRALIA  
30 SEPTEMBER 1988**

**IAN CASTLES  
Australian Statistician**

**AUSTRALIAN BUREAU OF STATISTICS**

**CATALOGUE NO. 9208.0**

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PHONE INQUIRIES	<ul style="list-style-type: none"> <li>• <i>about these statistics and the availability of related unpublished statistics</i> — contact Kevin Yeadon on Canberra (06) 252 6255 or any ABS State office.</li> <li>• <i>about other statistics and ABS services</i> — contact Information Services on Canberra (06) 252 5402, 252 6007 or any ABS State office.</li> </ul>
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## INTRODUCTION

This publication presents final statistics of motor vehicle use in Australia for the 12 months ended 30 September 1988. Preliminary results were published in Catalogue No. 9202.0 released on 31 July 1989. The data were collected in a sample survey conducted by the ABS throughout Australia and the results are contained in eight sections as follows:-

1. Number of vehicles
2. Distance travelled
3. Fuel consumption
4. Private and business vehicle usage
5. Load carrying vehicle usage
6. Commodity/Industry usage
7. Bus usage
8. Driver characteristics (non-load-carrying vehicles)

Commentary on each Section of the publication is provided in the Summary of Findings.

Detailed explanatory notes are shown at the back of this publication. As well as outlining the methodology used and the concepts, definitions and classification systems, they discuss the reliability of the estimates and selected aspects of data quality.

An explanation of the *percentage standard error (SE%)* shown against the estimates in each table is also provided in the Explanatory Notes.

Further information about this collection including access to additional unpublished statistics may be obtained from ABS' contact officer shown on the contents page.



## SIGNIFICANT RESULTS FROM THE SURVEY

- The average distance travelled by all motor vehicles was 16,400 kilometres, an increase of 3.8 per cent over the corresponding period in 1985 (15,800 kilometres).
- The average rate of fuel consumption for cars and station wagons was 11.9 litres per 100 kilometres.
- Nearly one third (51,061 million kilometres) of all distances travelled was classified to business. Of this 35.6 per cent (18,168 million kilometres) involved carrying loads.
- The average distance travelled for buses was 35,300 kilometres, with tour service buses averaging 69,700

kilometres and route service buses averaging 57,500 kilometres.

- Total tonne-kilometres by load carrying vehicles was 85,529 million tonne kilometres, an increase of 15.1 per cent over the corresponding period in 1985 (74,300 million tonne kilometres).
- Average business kilometres travelled for all industries was estimated to be 16,800 kilometres with the road transport industry recording the highest average at 42,200 kilometres and agriculture, forestry fishing and hunting the lowest at 11,700 kilometres.

## SUMMARY OF FINDINGS

### SECTION 1: NUMBER OF VEHICLES

Results of the 1988 Survey of Motor Vehicle Use relate to an estimated 9.4 million vehicles across Australia. There were 7.4 million cars and station wagons, representing nearly 80 per cent of all road using vehicles. Utilities and panel vans accounted for a further 12.6 per cent of vehicles; rigid trucks for 4.3 per cent; motor cycles for 3.1 per cent; articulated trucks for 0.5 per cent; and buses for 0.4 per cent.

Since 1976, the total number of road using vehicles has increased by nearly 43 per cent. The proportion of vehicles classified by vehicle type has remained relatively stable over that period although utilities and panel vans showed a rise of almost 63 per cent. In contrast, the number of non-freight carrying trucks declined by almost 21 per cent. Motor cycle numbers have shown an overall increase of 2.9 per cent since 1976 but declined by almost 17 per cent between 1985 and 1988.

Estimated numbers of vehicles and average kilometres travelled, by category are shown in the following table.

	<i>Estimated number of vehicles ( '000)</i>	<i>Average kilometres travelled ( '000)</i>
Cars and station wagons	7,375.6	15.8
Motor cycles	293.9	6.5
Utilities and panel vans	1,178.9	18.6
Rigid trucks	404.7	19.4
Articulated trucks	48.7	78.7
Other truck types	23.1	11.3
Buses	40.5	35.3
<b>Total</b>	<b>9,365.4</b>	<b>16.4</b>

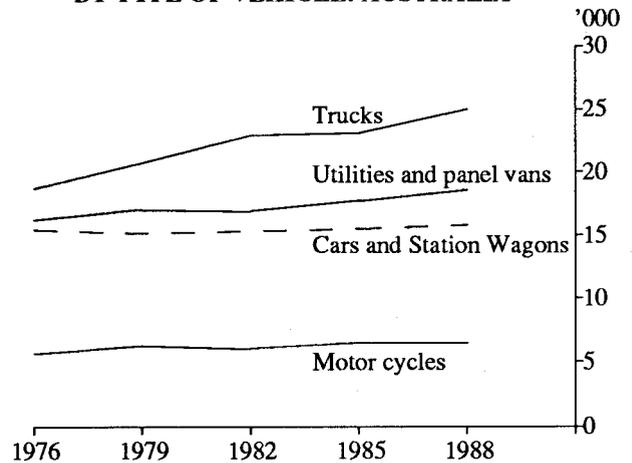
### SECTION 2. DISTANCE TRAVELLED

The average distance travelled by motor vehicles in the twelve months to 30 September 1988 was 16,400 kilometres, an increase of almost 4 per cent over the corresponding period in 1985 (15,800) kilometres). All vehicle types except non-freight-carrying trucks and motor cycles showed increases on 1985 with articulated and rigid trucks rising 8.9 per cent and 8.4 per cent respectively, and cars and station wagons by nearly 2 per cent to 15,800 kilometres.

Since 1976 the average distance travelled by motor vehicles has increased from 15,400 to 16,400 kilometres, an increase of more than 6 per cent. The average distance travelled by articulated and rigid trucks rose by 56 per cent and 24 per cent respectively, while cars and station wagons rose by nearly 3 per cent. Non-freight-carrying

trucks was the only vehicle type to show a decline over the period from 14,400 kilometres to 11,300 kilometres, a fall of more than 21 per cent.

**AVERAGE KILOMETRES TRAVELLED  
BY TYPE OF VEHICLE: AUSTRALIA**

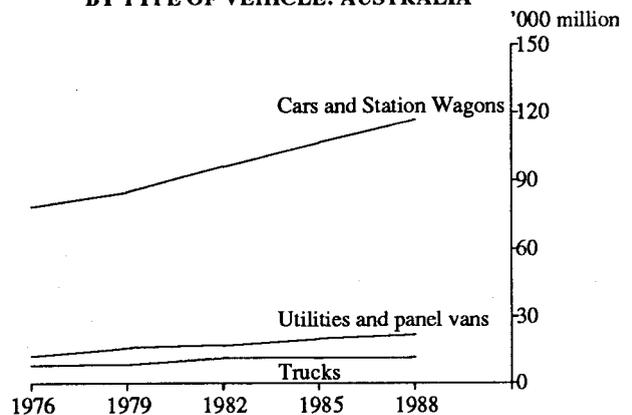


The total distance travelled by all vehicles rose by almost 10 per cent over the corresponding figure for 1985 to 153,914.9 million kilometres.

While trucks on average travel the greatest distance, there are far more cars and station wagons on the road (see Table 1) and consequently this category shows the greatest total distance travelled.

Cars and station wagons travelled a total of 116,640 million kilometres, an increase of more than 9 per cent over the corresponding 1985 figure. While all other vehicle types showed increases over the 1985 estimates for total distance travelled, motor cycles fell slightly to 1,924.0 million kilometres.

**TOTAL KILOMETRES TRAVELLED  
BY TYPE OF VEHICLE: AUSTRALIA**

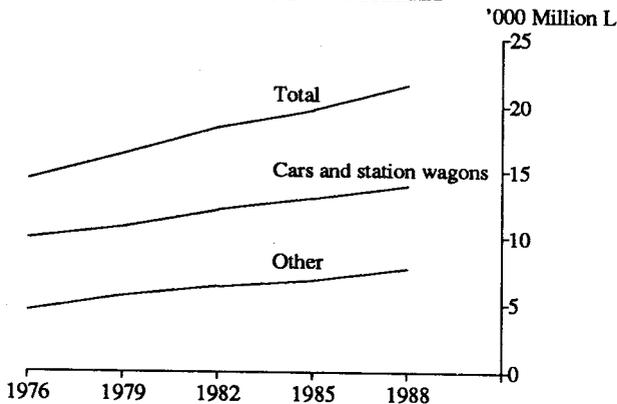


### SECTION 3. FUEL CONSUMPTION

Total fuel consumption by all vehicles for the year ended 30 September 1988 was estimated at 21,577.2 million litres. Cars and station wagons accounted for nearly 65 per cent (13,893.8 million litres) of this total, followed by trucks with over 19 per cent (4,194.0 million litres) and utilities and panel vans with almost 14 per cent (2,946.0 million litres).

Petrol, both leaded and unleaded, accounted for over 75 per cent (16,228.4 million litres) of total fuel consumption in 1988.

TOTAL FUEL CONSUMPTION BY VEHICLE TYPE: AUSTRALIA



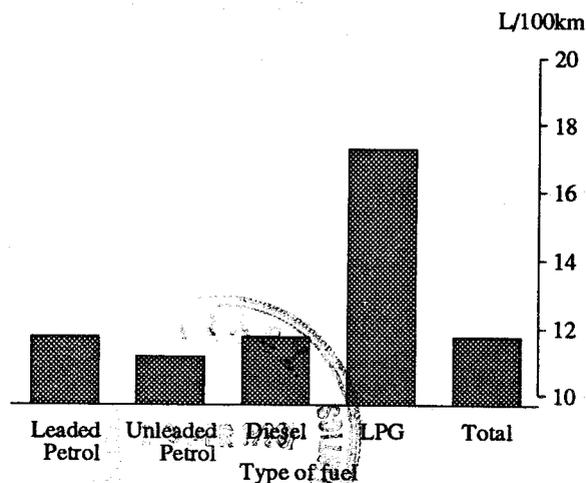
The average rate of fuel consumption for cars and station wagons over the year ended 30 September 1988 was estimated at 11.9 litres per 100 kilometres, a fall of about 2 per cent over the corresponding period in 1985. For those cars and station wagons using unleaded petrol, consumption averaged 11.3 litres per 100 kilometres in 1988 while leaded petrol consumption averaged 11.9 litres per 100 kilometres. Since 1976 the average fuel consumption of cars and station wagons has fallen by 0.7 litres per 100 kilometres or about 6 per cent.

Consumption of diesel or distillate fuel averaged 11.9 litres per 100 kilometres for cars and station wagons, 54.2 litres per 100 kilometres for articulated trucks and 28.3 litres per 100 kilometres for all vehicles. All vehicle types showed small increases in average fuel consumption on 1985 with articulated and rigid trucks increasing by 1.1 per cent and 1.5 per cent respectively, and cars and station wagons by nearly 4.4 per cent.

Average consumption for LPG/Dual fuel vehicles ranged from a high of 62.7 litres per 100 kilometres for articulated trucks to 17.4 litres per 100 kilometres for cars and station wagons. In comparison, articulated trucks consumed an average of 54.5 litres per 100 kilometres for the corresponding period in 1985 with cars and station wagons consuming 18.0 litres per 100 kilometres.

The average rate of LPG consumption across all vehicle types declined from a high of 23.6 litres per 100 kilometres in 1979 (when it was recorded separately for the first time) to 18.6 litres per 100 kilometres in 1988.

CARS AND STATION WAGONS, AVERAGE RATE OF FUEL CONSUMPTION BY FUEL TYPE: AUSTRALIA

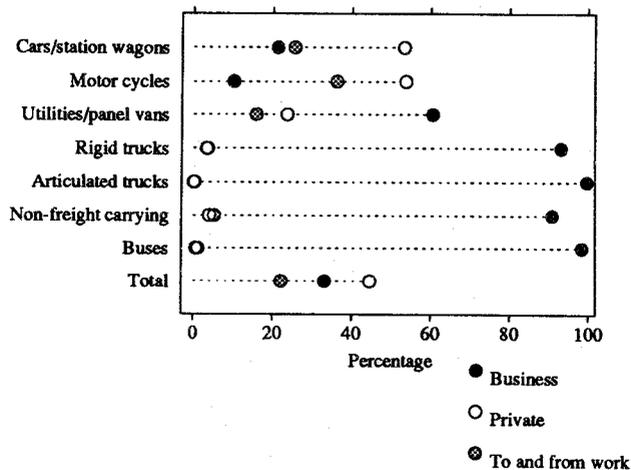


### SECTION 4. PRIVATE AND BUSINESS VEHICLE USAGE

Business usage accounted for nearly one third (51,061 million kilometres) of the total distance travelled in the twelve months ended 30 September 1988, almost 36 per cent (18,168 million kilometres) of which involved carrying loads.

Over 21 per cent (24,761.9 million kilometres) of the total distance travelled by cars and station wagons was for business use while more than 25 per cent (29,743.4 million kilometres) was for travel to and from work.

PROPORTION OF TOTAL KILOMETRES TRAVELLED BY TYPE OF VEHICLE AND PURPOSE: AUSTRALIA



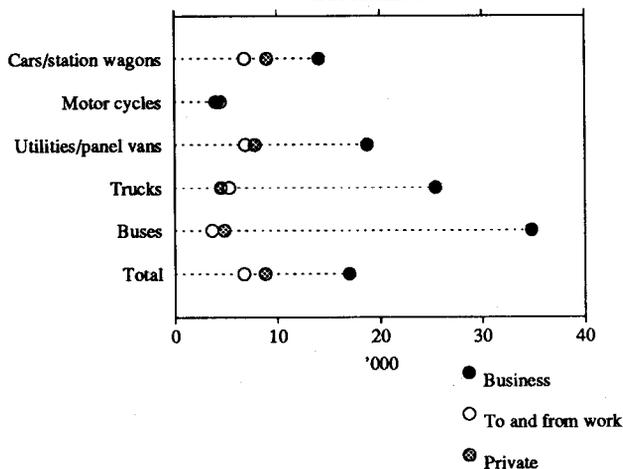
The average distance travelled for business purposes by all motor vehicles was 17,000 kilometres in 1988 compared with 14,900 kilometres in 1985, an increase of over 14 per cent. Articulated trucks averaged 78,600 kilometres in 1988, about 76 per cent (59,600 kilometres) of which was while laden. This compares with an average of 71,700 kilometres in 1985, 74 per cent of which was while laden.

After the Australian Capital Territory, Western Australia recorded the highest proportion (about 66 per cent) of total distance travelled within the capital city area, which was unchanged from 1985. Western Australia and Tasmania showed the highest proportion (both about 98 per cent) of total distance travelled within the State of registration, again unchanged from 1985.

Vehicles registered in the Northern Territory recorded the highest average distance travelled per vehicle at 17,800 kilometres, followed by Victoria (17,000 kilometres) and New South Wales (16,800 kilometres) while South Australia (14,900 kilometres) and Tasmania (14,200 kilometres) recorded the lowest.

Northern Territory registered vehicles recorded the highest average *business* kilometres travelled in the survey period (21,500 kilometres) followed by New South Wales with 18,100 kilometres. The Australian Capital Territory recorded the lowest average (13,700 kilometres).

AVERAGE KILOMETRES TRAVELLED BY TYPE OF VEHICLE AND PURPOSE: AUSTRALIA

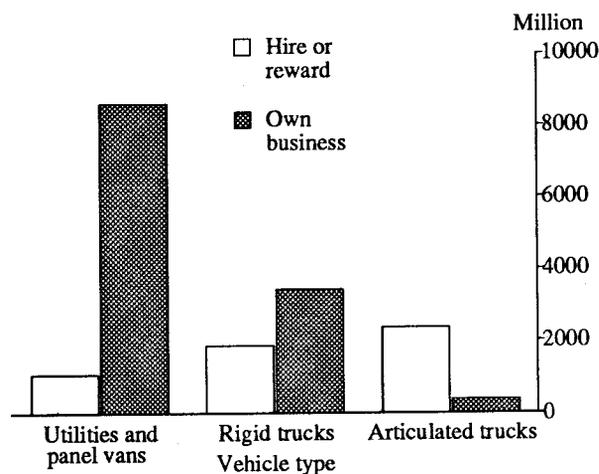


More than 95 per cent (146,559 million) of total kilometres travelled by all vehicles were attributed to travel within the State of registration, the same proportion as for 1985. Nearly 56 per cent (85,836.6 million) of total kilometres were driven in a capital city area, an increase of 3 per cent over 1985. For articulated trucks, however, only about 20 per cent (759.3 million kilometres) of the total distance travelled was estimated to be within a capital city area, while over 25 per cent (960 million kilometres) was interstate.

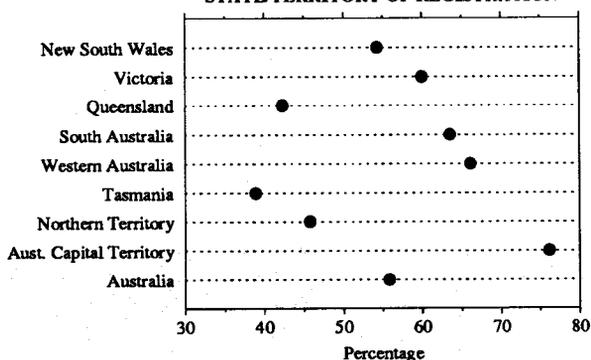
### SECTION 5. LOAD CARRYING VEHICLE USAGE

Load carrying vehicles recorded a total of 18,167.9 million laden kilometres for business purposes in the twelve months ended 30 September 1988. Of this total, almost 70 per cent (12,637.9 million) was attributable to vehicles used in own business while the remainder (5,530.0 million) was by vehicles used for hire and reward.

TOTAL LADEN BUSINESS KILOMETRES TRAVELLED BY TYPE OF VEHICLE AND VEHICLE USAGE: AUSTRALIA

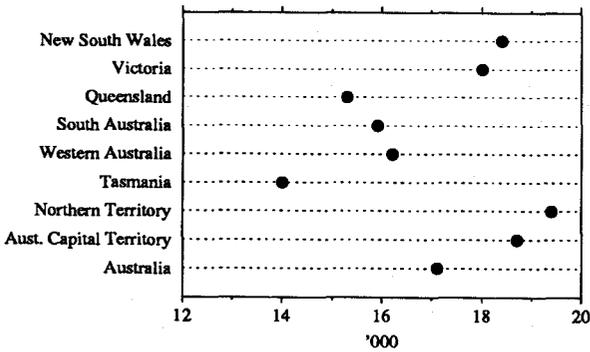


PROPORTION OF TOTAL KILOMETRES TRAVELLED WITHIN CAPITAL CITY AREA, ALL VEHICLES: STATE/TERRITORY OF REGISTRATION



Vehicles used for load carrying purposes averaged 17,100 laden business kilometres, up from 15,200 in 1985. Vehicles registered in the Northern Territory, Australian Capital Territory and New South Wales recorded the highest average laden business distance travelled with 19,400, 18,700 and 18,400 kilometres, respectively.

**AVERAGE LADEN BUSINESS KILOMETRES TRAVELLED BY STATE/TERRITORY OF REGISTRATION**

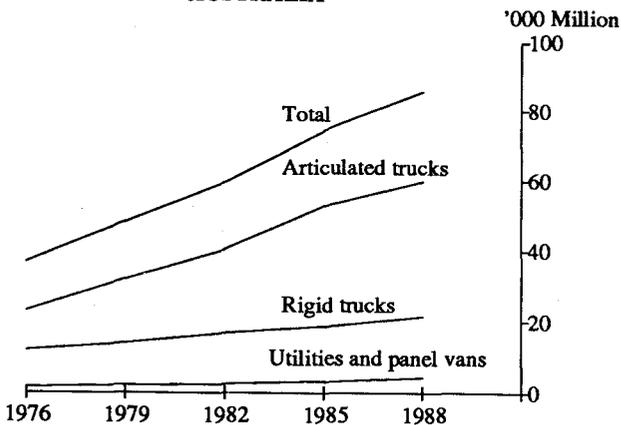


Total tonne-kilometres by load carrying vehicles was estimated to be 85,529 million tonne-kilometres, an increase of more than 15 per cent over the corresponding 12 month period to 30 September 1985 (74,300 million tonne-kilometres).

Almost 80 percent of total tonne-kilometres was travelled within the State of registration, the remainder (17,490.1 million kilometres) was recorded as interstate travel, about 96 per cent of which was by articulated trucks.



**TOTAL TONNE-KILOMETRES TRAVELLED BY LOAD CARRYING VEHICLES: AUSTRALIA**



Articulated trucks showed an increase of almost 16 per cent between the 1985 and 1988 surveys in average tonne-kilometres travelled (from 1,065,500 to 1,231,400 tonne-kilometres). Northern Territory registered articulated trucks recorded the highest average in 1988 with 1,365,900 tonne-kilometres, down from 3,175,300 in 1985, and Tasmania the lowest with 1,003,400 tonne-kilometres, up from 786,100 tonne-kilometres in 1985.

The total tonnes carried in the survey period was 990.2 million tonnes, an apparent decrease of more than 4 per cent over the corresponding 1985 period (1,031.8 million tonnes). However, care should be exercised when making

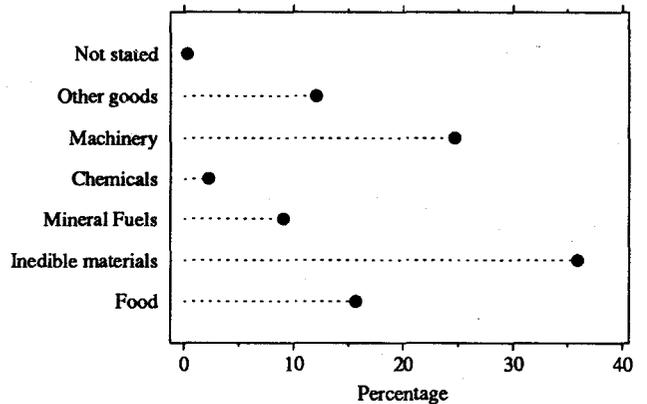
comparisons with previous periods as respondents had particular difficulty in providing these data. (See Explanatory Notes, paras. 31 to 33).

Almost 60 per cent of total tonnes carried was by vehicles registered in New South Wales and Victoria, an increase of 5 per cent over 1985. The average load carried by utilities and panel vans was 391 kilograms, 3,432 kilograms by rigid trucks and 18,189 kilograms for articulated trucks.

**SECTION 6. COMMODITY/INDUSTRY USAGE**

The commodity group 'inedible crude materials except fuels', accounted for almost 36 per cent (355.4 million tonnes) of total tonnes carried, but only about 18 per cent (15,148.3 million) of total tonne-kilometres. This was a fall of almost 11 per cent and a rise of over 11 per cent respectively on 1985. In contrast, 155.1 million tonnes of 'food and live animals' were carried (nearly 16 per cent of total tonnes) accounting for about 28 per cent of total tonne-kilometres (23,815.4 million), a decline of almost 15 per cent and an increase of about 14 per cent respectively on 1985.

**PROPORTION OF TOTAL TONNES CARRIED, BY COMMODITY: AUSTRALIA**

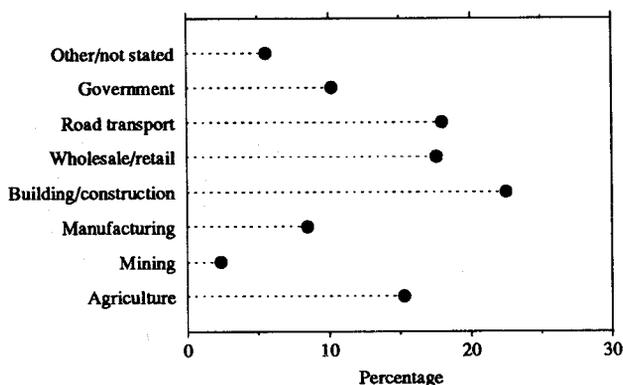


The industry to which business distance travelled is classified, largely reflects respondents' perceptions of the industry in which the main client is predominantly engaged (see Explanatory Notes, paragraph 16).

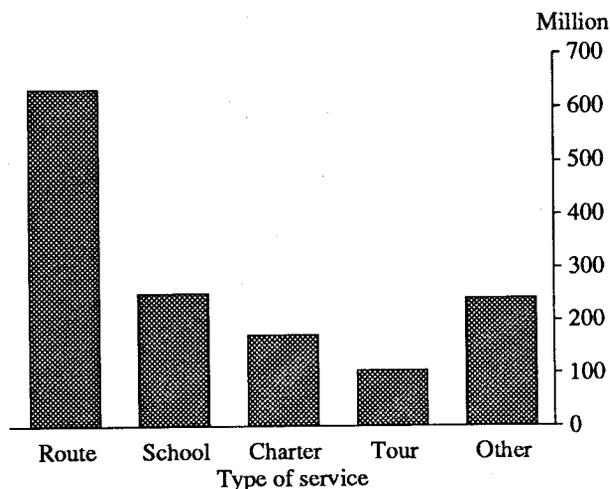
In terms of total business kilometres travelled, the wholesale and retail trade industry was the major industry served, accounting for around 23 per cent (11,552.1 million kilometres). With a total of 7,384 million kilometres (about 15 per cent of the total) the building and construction industry was the next most significant contributor. In 1985, the wholesale and retail trade industry accounted for almost 24 per cent of total business kilometres travelled (10,611.2 million) followed by the agriculture, forestry, fishing and hunting industry with 6,709.2 million kilometres (about 15 per cent of the total).

Assessed in terms of total *laden* business kilometres travelled, the building and construction industry (4,088 million kilometres) was the largest contributor with the road transport (3,269 million kilometres) and wholesale and retail trade industries (3,189 million kilometres) also being significant contributors. In contrast, for the corresponding 1985 period the wholesale and retail trade, building and construction and road transport industries were the largest contributors to total laden business kilometres with 2,886.3, 2,877.6 and 2,791.6 million kilometres respectively.

PROPORTION OF TOTAL LADEN BUSINESS KILOMETRES BY INDUSTRY SERVED: AUSTRALIA



TOTAL BUS KILOMETRES TRAVELLED BY TYPE OF SERVICE: AUSTRALIA



The average distance travelled by all buses was 35,300 kilometres, with tour service buses averaging 69,700 kilometres and route service buses averaging 57,500 kilometres. Buses registered in the Northern Territory, with 57,300 kilometres per bus, had the highest average distance travelled, followed by South Australia with 44,700 kilometres per bus and Tasmania the lowest with 30,000 kilometres per bus.

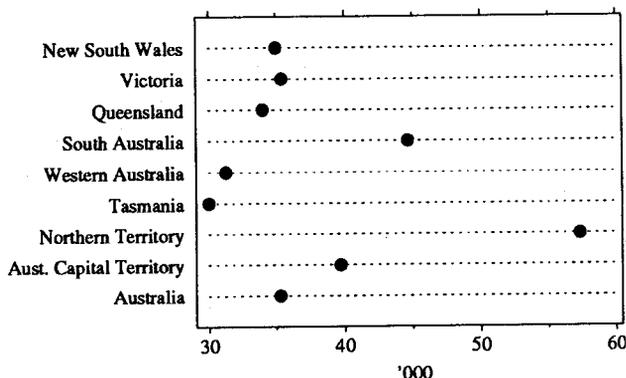
The road transport industry itself recorded by far the highest *average* business kilometres (42,200 kilometres), average laden business kilometres (37,800 kilometres), average tonne-kilometres (456,100 tonne-kilometres), average load (6,544 kilograms) and was the most significant contributor to both total tonne-kilometres (50 per cent) and total tonnes carried (over 25 per cent).

The agriculture, forestry, fishing and hunting industry recorded the lowest average business kilometres (11,700 kilometres), average laden business kilometres (8,200 kilometres) and average tonne-kilometres (28,000 tonne-kilometres).

## SECTION 7. BUS USAGE CHARACTERISTICS

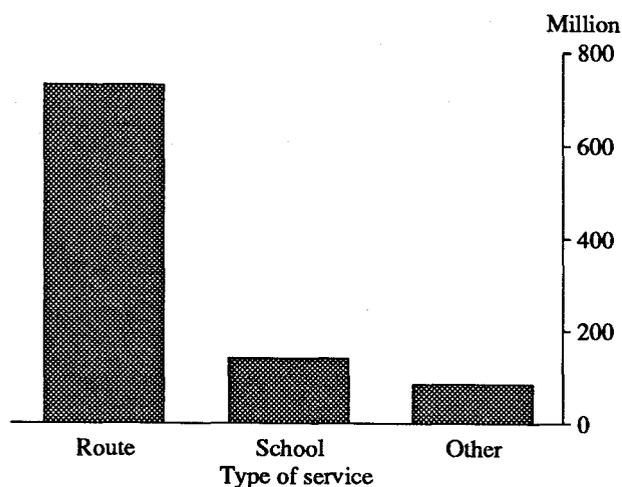
Of the 1,432.8 million kilometres travelled by buses in the 12 months to 30 September 1988, route services accounted for about 45 per cent (640.1 million kilometres), dedicated school services for 18 per cent (257.5 million kilometres), charter services for over 12 per cent (178.3 million kilometres) and tour services for almost 8 per cent (109.6 million kilometres).

AVERAGE KILOMETRES TRAVELLED (BUSES) BY STATE/TERRITORY OF REGISTRATION



A total of 973.7 million passengers were carried by all buses with more than 75 per cent (736.1 million passengers) by route services and over 15 per cent (146.9 million passengers) by dedicated school bus services. Buses registered in New South Wales carried almost 43 per cent of all passengers (417.2 million) while those registered in the Northern Territory carried less than 1 per cent (5.3 million passengers).

**NUMBER OF PASSENGERS CARRIED BY TYPE OF SERVICE: AUSTRALIA**

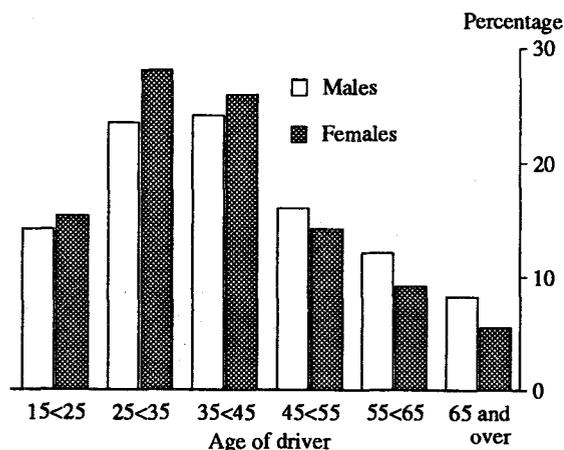


**SECTION 8. DRIVER CHARACTERISTICS**

This section discusses characteristics of drivers of non-load carrying vehicles such as cars, station wagons, motor cycles and non-freight carrying vans and trucks (see Explanatory Notes, para. 5). The data reflect the incidence of vehicles which may be driven by more than one driver. Details were obtained about the age, sex, driving experience and proportion of total distance travelled (as driver) in the selected vehicle, for each driver. On the other hand, these estimates do not take account of persons who drove more than one vehicle. It is therefore likely that the survey underestimates the total distance driven by an individual to the extent that more than one vehicle may have been driven by that person over a given period.

The average age of drivers of all non-load carrying vehicles was found to be 40 years at 30 September 1988, with 41 years being the average for males and 39 for females. The average age of motor cycle riders was 32 years, with more than two thirds being under 35 years of age.

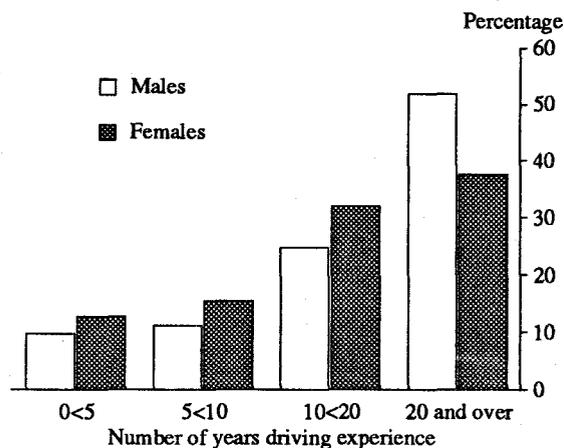
**DISTRIBUTION OF DRIVERS OF NON-LOAD CARRYING VEHICLES BY AGE AND SEX OF DRIVER: AUSTRALIA**



An estimated 46 per cent of drivers (approximately 5.8m) reported 20 or more years of driving experience whilst about 4 per cent reported less than 5 years.

About 95 per cent of drivers drove less than 30,000 kilometres in the selected vehicle during the 12 months ended 30 September 1988 while almost 63 per cent of drivers drove less than 10,000 kilometres.

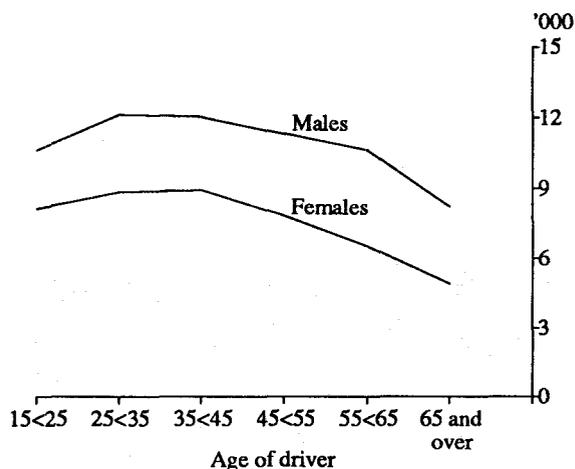
**DISTRIBUTION OF DRIVERS OF NON-LOAD CARRYING VEHICLES BY DRIVING EXPERIENCE AND SEX OF DRIVER: AUSTRALIA**



The average distance travelled by drivers of non-load carrying vehicles was 9,800 kilometres with male drivers averaging 11,000 kilometres and female drivers 8,100 kilometres. The average distance driven by males exceeded that by females for all vehicles except cars and station wagons with engine capacities less than 1600 cc.

Males accounted for 57 per cent and females for 43 per cent of the 11.6m drivers of cars and station wagons. Almost twice as many males (2.6m) as females (1.5m) drove cars and station wagons with a reported engine capacity of 3,000 cc or more. In contrast, the number of female drivers (1.1m) slightly exceeded males (1.0m) in the less than 1600 cc category.

**AVERAGE KILOMETRES TRAVELLED BY DRIVERS OF NON-LOAD CARRYING CARS AND STATION WAGONS, BY AGE AND SEX OF DRIVER: AUSTRALIA**





## SECTION 2: DISTANCE TRAVELLED

TABLE 3. TOTAL KILOMETRES TRAVELLED BY TYPE OF VEHICLE: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER

Type of vehicle	Year					
	1976	1979	1982(a)	1985	1988	SE(%)
Cars and station wagons	78,531.0	84,871.5	96,108.9	106,573.5	116,639.8	(1)
Motor cycles	1,641.3	1,768.2	2,152.1	2,276.2	1,924.0	(4)
Utilities and panel vans	12,289.9	15,928.0	16,951.2	20,121.3	21,981.6	(3)
Rigid trucks	6,031.8	5,837.2	8,417.2	7,627.0	7,839.9	(2)
Articulated trucks	2,005.0	2,607.4	2,999.5	3,587.7	3,835.7	(1)
Non-freight-carrying trucks	420.2	456.9	237.1	241.6	261.1	(7)
Buses(b)	n.a.	n.a.	n.a.	..	1,432.8	(3)
<b>Total</b>	<b>100,919.2</b>	<b>111,469.2</b>	<b>126,866.0</b>	<b>140,427.4</b>	<b>153,914.9</b>	<b>(1)</b>

For footnotes see end of Table 4.

TABLE 4. AVERAGE KILOMETRES TRAVELLED BY TYPE OF VEHICLE: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER

Type of vehicle	Year					
	1976	1979	1982(a)	1985	1988	SE(%)
Cars and station wagons	15.4	15.1	15.3	15.5	15.8	(1)
Motor cycles	5.7	6.3	6.1	6.5	6.5	(4)
Utilities and panel vans	17.0	17.0	16.9	17.7	18.6	(3)
Rigid trucks	15.7	16.7	19.0	17.9	19.4	(4)
Articulated trucks	50.5	59.3	64.4	72.3	78.7	(1)
Non-freight-carrying trucks	14.4	12.9	12.8	11.5	11.3	(5)
Buses(b)	n.a.	n.a.	..	..	35.3	(6)
<b>Total</b>	<b>15.4</b>	<b>15.3</b>	<b>15.6</b>	<b>15.8</b>	<b>16.4</b>	<b>(1)</b>

(a) Excludes vehicles owned by the Australian government. During the survey period there were an estimated 54,367 such vehicles which travelled 930 million kilometres in the 12 months ended 30 September 1988. (b) Data for buses are available for 1976, 1979 and 1988. However, differences in scope, definitions and the collection methodologies employed make meaningful comparisons difficult.

SECTION 3: FUEL CONSUMPTION

TABLE 5. TOTAL FUEL CONSUMPTION BY TYPE OF VEHICLE AND KIND OF FUEL: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(Million litres)

Type of vehicle	Kind of fuel						Total	SE(%)
	Petrol			LPG/ Dual fuel				
	Leaded	Unleaded	Total	Diesel or distillate	Dual fuel	Total		
Cars and station wagons	10,329.3	2,853.7	13,183.0	243.9	466.9	13,893.8	(1)	
Motor cycles	96.5	18.5	115.0	—	—	115.0	(4)	
Utilities and panel vans	1,944.4	401.7	2,346.1	508.7	91.1	2,946.0	(3)	
Rigid trucks	449.8	46.8	496.6	1,476.3	70.3	2,043.2	(5)	
Articulated trucks	4.4	*1.4	5.8	2,065.0	6.7	2,077.5	(8)	
Non-freight-carrying trucks	32.8	4.0	36.8	30.4	6.1	73.3	(11)	
Buses	34.1	10.9	45.0	381.6	1.9	428.5	(11)	
<b>Total</b>	<b>12,891.4</b>	<b>3,337.0</b>	<b>16,228.4</b>	<b>4,705.9</b>	<b>643.0</b>	<b>21,577.2</b>	<b>(1)</b>	

TABLE 6. AVERAGE RATE OF FUEL CONSUMPTION(a) BY TYPE OF VEHICLE AND KIND OF FUEL: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(Litres per 100 kilometres)

Type of vehicle	Kind of fuel						Total	SE(%)
	Petrol			LPG/ Dual fuel				
	Leaded	Unleaded	Total	Diesel or distillate	Dual fuel	Total		
Cars and station wagons	11.9	11.3	11.8	11.9	17.4	11.9	(0)	
Motor cycles	6.1	5.6	6.0	—	—	6.0	(2)	
Utilities and panel vans	13.7	12.8	13.6	12.2	17.8	13.4	(1)	
Rigid trucks	21.8	19.9	21.6	27.8	31.8	26.1	(3)	
Articulated trucks	47.8	21.5	37.1	54.2	62.7	54.2	(3)	
Non-freight-carrying trucks	23.8	23.2	23.8	34.7	33.2	28.1	(4)	
Buses	19.7	14.9	18.3	32.3	34.8	29.9	(6)	
<b>Total</b>	<b>12.3</b>	<b>11.5</b>	<b>12.1</b>	<b>28.3</b>	<b>18.6</b>	<b>14.0</b>	<b>(0)</b>	

(a) See Explanatory Notes (paragraph 21) on Average concept.

SECTION 4: PRIVATE AND BUSINESS VEHICLE USAGE

TABLE 7. TOTAL KILOMETRES TRAVELLED BY TYPE OF VEHICLE AND PURPOSE: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(Million kilometres)

Type of vehicle	Purpose(a)					
	Business		Private		Total	
	Laden	Unladen	Total(b)	Total to and from work	Private	Total
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
Cars and station wagons	..	(-)	24,761.9	29,743.4	62,134.5	116,639.8
Motor cycles	..	(-)	195.2	696.5	1,032.3	1,924.0
Utilities and panel vans	9,834.0	(3)	13,333.6	3,470.9	5,177.1	21,981.6
Rigid trucks	5,441.5	(2)	7,299.1	280.6	260.3	7,839.9
Articulated trucks	2,892.4	(1)	3,824.6	10.0	1.2	3,835.7
Non-freight-carrying trucks	..	(-)	237.1	*13.9	10.1	261.1
Buses	..	(-)	1,409.2	7.7	15.9	1,432.8
<b>Total</b>	<b>18,167.9</b>	<b>(2)</b>	<b>51,060.5</b>	<b>34,223.0</b>	<b>68,631.4</b>	<b>153,914.9</b>

(a) See Explanatory Notes (paragraphs 8-10) on Purpose classification. (b) Includes business travel of non-load-carrying vehicles except for articulated trucks.

TABLE 8. AVERAGE KILOMETRES TRAVELLED(a) BY TYPE OF VEHICLE AND PURPOSE: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(\*'000 kilometres)

Type of vehicle	Purpose(b)					
	Business		Private		Total	
	Laden	Unladen	Total(c)	Total to and from work	Private	Total
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
Cars and station wagons	..	(-)	14.1	6.8	9.0	15.8
Motor cycles	..	(-)	4.0	4.1	4.5	6.5
Utilities and panel vans	15.4	(2)	18.8	6.9	7.8	18.6
Rigid trucks	14.5	(2)	19.4	5.2	4.5	19.4
Articulated trucks	59.6	(1)	78.6	4.4	2.0	78.7
Non-freight-carrying trucks	..	(-)	11.1	6.8	5.0	11.3
Buses	..	(-)	34.8	3.6	4.8	35.3
<b>Total</b>	<b>17.1</b>	<b>(1)</b>	<b>17.0</b>	<b>6.7</b>	<b>8.8</b>	<b>16.4</b>

(a) See Explanatory Notes (paragraph 21) on Average concept. (b) See Explanatory Notes (paragraphs 8-10) on Purpose classification. (c) Includes business travel of non-load-carrying vehicles except for articulated trucks.

TABLE 9. TOTAL KILOMETRES TRAVELLED BY PURPOSE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(Million kilometres)

State of registration	Purpose(a)					
	Business		Total to and from work	Private		Total
	Laden	Unladen		Total(b)	Private	
SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	
New South Wales	5,909.5	1,831.9	16,738.9	11,466.1	22,071.4	50,276.3
Victoria	4,723.0	1,491.6	13,783.6	9,880.4	19,309.2	42,973.2
Queensland	3,085.2	1,128.7	8,701.8	5,179.2	11,026.5	24,907.5
South Australia	1,504.6	542.3	4,161.1	2,777.5	6,030.1	12,968.6
Western Australia	2,011.5	778.0	5,376.3	3,310.2	6,714.3	15,400.9
Tasmania	504.3	163.5	1,242.8	801.8	1,972.5	4,017.2
Northern Territory	213.4	83.6	507.2	204.1	363.3	1,074.6
Australian Capital Territory	216.4	54.8	548.8	603.7	1,144.2	2,296.7
<b>Australia</b>	<b>18,167.9</b>	<b>6,074.5</b>	<b>51,060.5</b>	<b>34,223.0</b>	<b>68,631.4</b>	<b>153,914.9</b>

(a) See Explanatory Notes (paragraphs 8-10) on Purpose classification. (b) Includes business travel of non-load-carrying vehicles.

TABLE 10. AVERAGE KILOMETRES TRAVELLED(a) BY PURPOSE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

('000 kilometres)

State of registration	Purpose(b)					
	Business		Total(c)	Private		Total
	Laden	Unladen		Total(c)	Private	
SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	
New South Wales	18.4	8.6	18.1	7.0	8.8	16.8
Victoria	18.0	8.8	17.1	7.2	9.1	17.0
Queensland	15.3	8.2	16.2	6.4	8.6	16.0
South Australia	15.9	8.2	15.4	5.9	8.2	14.9
Western Australia	16.2	9.0	17.1	6.5	8.7	16.4
Tasmania	14.0	6.6	14.8	5.6	8.3	14.2
Northern Territory	19.4	12.7	21.5	5.8	8.4	17.8
Australian Capital Territory	18.7	9.5	13.7	6.4	9.2	16.4
<b>Australia</b>	<b>17.1</b>	<b>8.6</b>	<b>17.0</b>	<b>6.7</b>	<b>8.8</b>	<b>16.4</b>

(a) See Explanatory Notes (paragraph 21) on Average concept. (b) See Explanatory Notes (paragraphs 8-10) on Purpose classification. (c) Includes business travel of non-load-carrying vehicles.

TABLE 11. TOTAL KILOMETRES TRAVELLED BY TYPE OF VEHICLE AND AREA OF OPERATION: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(Million kilometres)

Type of vehicle	Area of operation						Australia	
	Capital city(a)		Provincial urban		Other areas of State or Territory			Total within State of registration
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)		
Cars and station wagons	69,200.5	15,384.1	26,832.9	111,417.4	5,222.3	116,639.8		
Motor cycles	930.5	295.6	571.7	1,803.8	120.2	1,924.0		
Utilities and panel vans	10,038.6	3,037.2	8,168.9	21,244.7	737.0	21,981.6		
Rigid trucks	4,119.4	1,056.3	2,494.2	7,670.0	169.9	7,839.9		
Articulated trucks	759.3	389.3	1,727.1	2,875.7	960.0	3,835.7		
Non-freight-carrying trucks	133.4	42.7	78.1	254.3	6.8	261.1		
Buses	654.9	174.1	464.2	1,293.2	139.6	1,432.8		
<b>Total</b>	<b>85,836.6</b>	<b>20,379.3</b>	<b>40,343.2</b>	<b>146,559.0</b>	<b>7,355.9</b>	<b>153,914.9</b>		

(a) Includes all of ACT for ACT registered vehicles.

TABLE 12. AVERAGE KILOMETRES TRAVELLED BY TYPE OF VEHICLE AND AREA OF OPERATION: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(\*000 kilometres)

Type of vehicle	Area of operation						Australia	
	Capital city(b)		Provincial urban		Other areas of State or Territory			Total within State of registration
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)		
Cars and station wagons	11.7	6.0	6.5	15.1	4.0	15.8		
Motor cycles	6.2	3.5	3.6	6.2	3.9	6.5		
Utilities and panel vans	15.7	9.2	12.1	18.1	6.2	18.6		
Rigid trucks	20.2	12.5	11.8	19.0	9.1	19.4		
Articulated trucks	27.5	22.9	44.4	59.2	64.2	78.7		
Non-freight-carrying trucks	12.2	7.8	5.7	11.1	3.9	11.3		
Buses	27.6	17.4	22.5	31.9	34.8	35.3		
<b>Total</b>	<b>12.3</b>	<b>6.6</b>	<b>7.7</b>	<b>15.7</b>	<b>4.9</b>	<b>16.4</b>		

(a) See Explanatory Notes (paragraph 21) on Average concept. (b) Includes all of ACT for ACT registered vehicles.

TABLE 13. TOTAL KILOMETRES TRAVELLED BY AREA OF OPERATION: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(Million kilometres)

State of registration	Area of operation					Australia
	Capital city(a)	Provincial urban	Other areas of State or Territory	Total within State of registration	Interstate	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
New South Wales	27,316.4	6,999.0	13,968.2	48,283.6	1,992.8	50,276.3
Victoria	25,776.7	3,926.3	10,822.1	40,525.1	2,448.1	42,973.2
Queensland	10,534.1	7,993.4	5,219.5	23,747.0	1,160.5	24,907.5
South Australia	8,229.9	..	3,967.6	12,197.4	771.1	12,968.6
Western Australia	10,177.1	..	4,963.6	15,140.7	260.2	15,400.9
Tasmania	1,562.7	1,460.7	920.8	3,944.2	73.0	4,017.2
Northern Territory	492.2	..	481.4	973.6	101.0	1,074.6
Australian Capital Territory	1,747.4	..	..	1,747.4	549.2	2,296.7
<b>Australia</b>	<b>85,836.6</b>	<b>20,379.3</b>	<b>40,343.2</b>	<b>146,559.0</b>	<b>7,355.9</b>	<b>153,914.9</b>

(a) Includes all of ACT for ACT registered vehicles.

TABLE 14. AVERAGE KILOMETRES TRAVELLED(b) BY AREA OF OPERATION: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(\*000 kilometres)

State of registration	Area of operation					Australia
	Capital city(b)	Provincial urban	Other areas of State or Territory	Total within State of registration	Interstate	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
New South Wales	12.7	6.2	8.4	16.2	3.7	16.8
Victoria	12.9	5.2	7.2	16.1	5.6	17.0
Queensland	10.8	7.9	6.2	15.3	5.1	16.0
South Australia	11.4	..	8.1	14.1	5.6	14.9
Western Australia	13.2	..	9.5	16.2	11.6	16.4
Tasmania	9.3	8.0	5.3	14.0	6.5	14.2
Northern Territory	12.2	..	11.7	16.2	11.0	17.8
Australian Capital Territory	12.5	..	..	12.5	5.1	16.4
<b>Australia</b>	<b>12.3</b>	<b>6.6</b>	<b>7.7</b>	<b>15.7</b>	<b>4.9</b>	<b>16.4</b>

(a) See Explanatory Notes (paragraph 21) on Average concept. (b) Includes all of ACT for ACT registered vehicles.

TABLE 15. TOTAL KILOMETRES TRAVELLED BY TYPE OF VEHICLE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(Million kilometres)

Type of vehicle	State of registration										Australia
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia		
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
Cars and station wagons	38,622.0	33,575.8	17,870.1	10,004.6	11,114.5	3,006.6	579.7	1,866.4	116,639.8	(1)	
Motor cycles	622.3	419.1	424.1	170.9	206.0	30.2	23.2	28.3	1,924.0	(3)	
Utilities and panel vans	6,533.2	5,463.3	4,498.0	1,687.1	2,664.8	576.0	287.3	272.0	21,981.6	(2)	
Rigid trucks	2,817.7	2,045.6	1,217.1	551.1	843.9	234.3	56.8	73.4	7,839.9	(2)	
Articulated trucks	1,148.1	1,110.7	610.3	395.7	346.4	116.2	83.4	24.8	3,835.7	(1)	
Non-freight-carrying trucks	105.8	59.6	39.1	19.5	23.8	7.7	3.2	2.4	261.1	(7)	
Buses	427.3	299.1	248.8	139.7	201.5	46.1	41.1	29.3	1,432.8	(3)	
Total	50,276.3	42,973.2	24,907.5	12,968.6	15,400.9	4,017.2	1,074.6	2,296.7	153,914.9	(1)	

TABLE 16. AVERAGE KILOMETRES TRAVELLED(a) BY TYPE OF VEHICLE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(\*000 kilometres)

Type of vehicle	State of registration										Australia
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia		
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
Cars and station wagons	16.1	16.4	15.4	14.4	15.7	13.9	15.3	15.7	15.8	(1)	
Motor cycles	7.1	6.1	7.1	5.2	6.4	5.1	7.6	7.7	6.5	(3)	
Utilities and panel vans	19.1	19.7	17.5	18.1	18.9	14.1	19.5	21.4	18.6	(2)	
Rigid trucks	21.9	18.8	18.6	15.3	18.9	15.9	19.2	23.0	19.4	(2)	
Articulated trucks	78.0	79.8	75.6	83.7	73.5	77.3	99.9	104.0	78.7	(1)	
Non-freight-carrying trucks	16.6	8.8	12.3	7.7	8.5	7.6	12.2	11.8	11.3	(5)	
Buses	35.0	35.4	34.0	44.7	31.3	30.0	57.3	39.7	35.3	(3)	
Total	16.8	17.0	16.0	14.9	16.4	14.2	17.8	16.4	16.4	(1)	

(a) See Explanatory Notes (paragraph 21) on Average concept.

TABLE 17. TOTAL BUSINESS KILOMETRES TRAVELLED(a) BY TYPE OF VEHICLE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(Million kilometres)

Type of vehicle	State of registration							ACT	Australia
	NSW	Vic.	Qld	SA	WA	Tas.	NT		
Cars and station wagons	8,386.6	7,087.0	4,112.2	1,922.5	2,332.9	515.0	163.2	242.5	24,761.9
Motor cycles	40.3	62.8	45.9	17.9	22.0	3.0	1.2	*2.2	195.2
Utilities and panel vans	4,039.6	3,287.5	2,504.2	1,148.9	1,661.2	351.1	163.2	177.8	13,333.6
Rigid trucks	2,617.8	1,886.6	1,154.0	519.2	794.0	204.5	53.0	69.9	7,299.1
Articulated trucks	1,145.1	1,106.5	608.5	395.0	345.8	115.9	82.9	24.8	3,824.6
Non-freight-carrying trucks	90.2	57.5	33.6	18.9	23.6	7.7	3.2	2.3	237.1
Buses	419.3	295.8	243.3	138.6	196.9	45.5	40.5	29.3	1,409.2
<b>Total</b>	<b>16,738.9</b>	<b>13,783.6</b>	<b>8,701.8</b>	<b>4,161.1</b>	<b>5,376.3</b>	<b>1,242.8</b>	<b>507.2</b>	<b>548.8</b>	<b>51,060.5</b>

(a) See Explanatory Notes (paragraph 9) on Business kilometres.

TABLE 18. AVERAGE BUSINESS KILOMETRES TRAVELLED(a) BY TYPE OF VEHICLE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

('000 kilometres)

Type of vehicle	State of registration							ACT	Australia
	NSW	Vic.	Qld	SA	WA	Tas.	NT		
Cars and station wagons	15.1	14.4	13.7	12.2	13.8	12.1	16.0	9.0	14.1
Motor cycles	4.9	3.5	4.0	3.5	4.6	4.0	2.6	7.9	4.0
Utilities and panel vans	19.3	19.8	17.4	18.3	19.4	14.7	19.7	20.5	18.8
Rigid trucks	21.9	18.8	18.2	15.1	19.4	16.1	18.9	22.5	19.4
Articulated trucks	77.9	79.6	75.4	83.6	73.6	77.3	99.5	104.4	78.6
Non-freight-carrying trucks	16.5	8.7	13.1	7.6	8.5	7.6	12.3	11.5	11.1
Buses	34.3	35.0	33.3	44.4	30.6	29.7	56.4	39.6	34.8
<b>Total</b>	<b>18.1</b>	<b>17.1</b>	<b>16.2</b>	<b>15.4</b>	<b>17.1</b>	<b>14.8</b>	<b>21.5</b>	<b>13.7</b>	<b>17.0</b>

(a) See Explanatory Notes (paragraph 21) on Average concept and Explanatory Notes (paragraph 9) on Business kilometres.

TABLE 19. TOTAL KILOMETRES TRAVELLED BY STATE OF OPERATION: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

State of registration	State of operation										Australia	
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	SE(%)	SE(%)	SE(%)	SE(%)
New South Wales	48,283.6	593.5	853.4	139.8	67.4	16.2	39.4	283.1	32	14	50,276.3	(1)
Victoria	1,476.8	40,525.1	396.7	303.6	138.3	*23.4	84.2	25.0	(29)	(20)	42,973.2	(1)
Queensland	879.2	136.7	23,747.0	38.0	45.4	*1.6	51.4	*8.2	(25)	(55)	24,907.5	(2)
South Australia	230.2	330.7	91.7	12,197.4	54.9	*5.8	52.6	5.3	(15)	(24)	12,968.6	(2)
Western Australia	78.4	46.3	27.8	75.2	15,140.7	*1.2	25.5	*5.8	(23)	(76)	15,400.9	(2)
Tasmania	22.1	16.0	13.7	7.3	*7.0	3,944.2	*6.2	*0.7	(78)	(83)	4,017.2	(3)
Northern Territory	17.4	7.7	37.5	21.6	16.1	*0.2	973.6	*0.5	(3)	(55)	1,074.6	(2)
Australian Capital Territory	468.4	41.3	25.1	11.6	1.8	*0.1	0.8	1,747.4	(45)	(3)	2,296.7	(3)
Australia	51,456.1	41,697.3	25,193.0	12,794.6	15,471.7	3,992.7	1,233.7	2,075.9	(3)	(3)	153,914.9	(1)

## SECTION 5: LOAD CARRYING VEHICLE USAGE

TABLE 20. TOTAL LADEN BUSINESS KILOMETRES TRAVELLED(a) BY TYPE OF VEHICLE  
AND VEHICLE USAGE: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Type of vehicle	Vehicle usage			SE(%)
	Carrying for hire and reward	Used in own business	Total	
Utilities and panel vans	1,142.7	8,691.4	9,834.0	(3)
Rigid trucks	1,948.6	3,492.9	5,441.5	(2)
Articulated trucks	2,438.7	453.7	2,892.4	(1)
<b>Total</b>	<b>5,530.0</b>	<b>12,637.9</b>	<b>18,167.9</b>	<b>(2)</b>

(Million kilometres)

(a) See Explanatory Notes (paragraph 9) on Business kilometres.

TABLE 21. TOTAL LADEN BUSINESS KILOMETRES TRAVELLED(a) BY TYPE OF VEHICLE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Type of vehicle	(Million kilometres)																						
	State of registration																						
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia	SE(%)	SE(%)	SE(%)											
Utilities and panel vans	3,095.4	2,442.1	1,764.5	803.4	1,176.4	292.4	114.6	145.2	9,834.0	(7)	(6)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	(7)	
Rigid trucks	1,962.3	1,412.4	859.6	388.1	589.4	137.4	39.9	52.3	5,441.5	(4)	(5)	(4)	(5)	(5)	(6)	(9)	(8)	(8)	(8)	(8)	(8)	(8)	(8)
Articulated trucks	851.8	868.5	461.1	313.1	245.7	74.4	58.9	18.9	2,892.4	(1)	(2)	(3)	(4)	(5)	(4)	(4)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
<b>Total</b>	<b>5,909.5</b>	<b>4,723.0</b>	<b>3,085.2</b>	<b>1,504.6</b>	<b>2,011.5</b>	<b>504.3</b>	<b>213.4</b>	<b>216.4</b>	<b>18,167.9</b>	<b>(4)</b>	<b>(3)</b>	<b>(4)</b>	<b>(4)</b>	<b>(4)</b>	<b>(10)</b>	<b>(8)</b>	<b>(12)</b>	<b>(12)</b>	<b>(12)</b>	<b>(12)</b>	<b>(12)</b>	<b>(12)</b>	<b>(12)</b>

(a) See Explanatory Notes (paragraph 9) on Business kilometres.

TABLE 22. AVERAGE LADEN BUSINESS KILOMETRES TRAVELLED(a) BY TYPE OF VEHICLE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Type of vehicle	('000 kilometres)																						
	State of registration																						
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia	SE(%)	SE(%)	SE(%)											
Utilities and panel vans	16.6	16.4	13.6	14.4	14.8	13.4	15.5	17.7	15.4	(5)	(5)	(6)	(6)	(5)	(12)	(11)	(12)	(12)	(12)	(12)	(12)	(12)	(12)
Rigid trucks	16.4	14.1	13.6	11.4	14.6	10.9	14.3	16.9	14.5	(3)	(4)	(3)	(3)	(4)	(7)	(5)	(6)	(6)	(6)	(6)	(6)	(6)	(6)
Articulated trucks	58.1	62.7	57.3	66.6	52.6	49.6	70.7	79.9	59.6	(1)	(2)	(2)	(3)	(4)	(5)	(4)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
<b>Total</b>	<b>18.4</b>	<b>18.0</b>	<b>15.3</b>	<b>15.9</b>	<b>16.2</b>	<b>14.0</b>	<b>19.4</b>	<b>18.7</b>	<b>17.1</b>	<b>(3)</b>	<b>(3)</b>	<b>(3)</b>	<b>(3)</b>	<b>(3)</b>	<b>(8)</b>	<b>(6)</b>	<b>(8)</b>	<b>(8)</b>	<b>(8)</b>	<b>(8)</b>	<b>(8)</b>	<b>(8)</b>	<b>(8)</b>

(a) See Explanatory Notes (paragraph 21) on Average concept and Explanatory Notes (paragraph 9) on Business kilometres.

**TABLE 23. TOTAL TONNE-KILOMETRES(a) BY TYPE OF VEHICLE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988**

(Million tonne-kilometres)

Type of vehicle	State of registration									
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia	SE(%)
Utilities and panel vans	1,304.2	1,112.1	791.2	342.9	535.5	96.5	47.4	56.4	4,286.1	(8)
Rigid trucks	7,197.6	5,517.2	3,064.1	1,574.4	2,967.0	876.0	145.3	180.0	21,521.5	(7)
Articulated trucks	16,425.2	16,255.6	9,478.5	6,495.8	6,659.6	1,550.4	2,494.4	361.9	59,721.3	(1)
<b>Total</b>	<b>24,926.9</b>	<b>22,884.8</b>	<b>13,333.8</b>	<b>8,413.0</b>	<b>10,162.1</b>	<b>2,522.8</b>	<b>2,687.0</b>	<b>598.3</b>	<b>85,528.8</b>	<b>(2)</b>

(a) See Explanatory Notes (paragraph 19) on Tonne-kilometres.

**TABLE 24. AVERAGE TONNE-KILOMETRES(a) BY TYPE OF VEHICLE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988**

('000 tonne-kilometres)

Type of vehicle	State of registration									
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia	SE(%)
Utilities and panel vans	7.0	7.5	6.1	6.1	6.7	4.4	6.4	6.9	6.7	(8)
Rigid trucks	60.3	55.3	48.5	46.4	73.4	69.2	52.1	58.1	57.3	(7)
Articulated trucks	1,120.1	1,174.0	1,178.5	1,380.7	1,425.1	1,034.6	2,992.5	1,531.8	1,231.4	(1)
<b>Total</b>	<b>77.7</b>	<b>87.3</b>	<b>66.2</b>	<b>88.9</b>	<b>81.6</b>	<b>70.3</b>	<b>244.2</b>	<b>51.8</b>	<b>80.5</b>	<b>(3)</b>

(a) See Explanatory Notes (paragraph 21) on Average concept and Explanatory Notes (paragraph 19) on Tonne-kilometres.

TABLE 25. TOTAL TONNE-KILOMETRES(a) BY TYPE OF VEHICLE AND STATE/TERRITORY OF OPERATION: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Type of vehicle	(Million tonne-kilometres)																	
	State of operation																	
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia									
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)							
Utilities and panel vans	1,344.6	1,102.7	769.0	337.3	533.4	96.2	48.2	54.6	4,286.1	(8)	(7)	(8)	(11)	(8)	(18)	(19)	(17)	(4)
Rigid trucks	7,265.2	5,477.6	3,080.3	1,546.7	2,956.5	874.7	151.3	169.1	21,521.5	(7)	(5)	(6)	(6)	(6)	(7)	(5)	(8)	(3)
Articulated trucks	20,935.8	13,710.1	8,640.6	5,614.3	7,065.6	1,513.9	2,068.4	172.6	59,721.3	(1)	(3)	(2)	(4)	(8)	(6)	(6)	(8)	(1)
<b>Total</b>	<b>29,545.6</b>	<b>20,290.3</b>	<b>12,490.0</b>	<b>7,498.3</b>	<b>10,555.6</b>	<b>2,484.8</b>	<b>2,267.8</b>	<b>396.3</b>	<b>85,528.8</b>	<b>(2)</b>	<b>(2)</b>	<b>(5)</b>	<b>(4)</b>	<b>(6)</b>	<b>(4)</b>	<b>(6)</b>	<b>(5)</b>	<b>(1)</b>

(a) See Explanatory Notes (paragraph 19) on Tonne-kilometres.

TABLE 26. AVERAGE TONNE-KILOMETRES(a) BY TYPE OF VEHICLE AND STATE/TERRITORY OF OPERATION: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Type of vehicle	('000 tonne-kilometres)														
	State of operation														
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia						
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)				
Utilities and panel vans	6.4	7.1	5.6	5.5	6.6	4.4	5.7	4.2	6.7	(7)	(7)	(15)	(18)	(16)	(3)
Rigid trucks	56.9	52.6	46.7	43.0	72.4	68.9	45.9	31.0	57.3	(7)	(5)	(11)	(7)	(10)	(3)
Articulated trucks	913.0	689.3	644.7	609.3	1,158.1	1,003.4	1,365.9	118.5	1,231.4	(1)	(3)	(5)	(7)	(7)	(1)
<b>Total</b>	<b>82.1</b>	<b>72.6</b>	<b>57.9</b>	<b>70.5</b>	<b>83.0</b>	<b>68.7</b>	<b>170.4</b>	<b>19.8</b>	<b>80.5</b>	<b>(3)</b>	<b>(3)</b>	<b>(7)</b>	<b>(8)</b>	<b>(10)</b>	<b>(2)</b>

(a) See Explanatory Notes (paragraph 21) on Average concept and Explanatory Notes (paragraph 19) on Tonne-kilometres.

**TABLE 27. TOTAL TONNE-KILOMETRES(a) BY TYPE OF VEHICLE AND AREA OF OPERATION: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988**  
(Million tonne-kilometres)

Type of vehicle	Area of operation					
	Capital city(b)	Provincial urban	Other areas of State or Territory	Total within State of registration	Interstate	Australia
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
Utilities and panel vans	2,207.9	485.3	1,496.0	4,189.3	96.8	4,286.1
Rigid trucks	10,367.0	2,734.3	7,803.6	20,904.9	616.6	21,521.5
Articulated trucks	10,006.9	5,197.7	27,740.0	42,944.6	16,776.7	59,721.3
<b>Total</b>	<b>22,581.9</b>	<b>8,417.4</b>	<b>37,039.6</b>	<b>68,038.8</b>	<b>17,490.1</b>	<b>85,528.8</b>

(a) See Explanatory Notes (paragraph 19) on Tonne-kilometres. (b) Includes all of ACT for ACT registered vehicles.

**TABLE 28. TOTAL TONNE-KILOMETRES(a) BY AREA OF OPERATION: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988**  
(Million tonne-kilometres)

State of registration	Area of operation					
	Capital city(b)	Provincial urban	Other areas of State or Territory	Total within State of registration	Interstate	Australia
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
New South Wales	7,741.4	3,194.9	10,546.9	21,483.2	3,443.7	24,926.9
Victoria	6,927.9	1,677.1	8,089.4	16,694.5	6,190.3	22,884.8
Queensland	2,797.7	2,631.3	4,750.7	10,179.7	3,154.0	13,333.8
South Australia	1,631.4	..	3,725.4	5,356.8	3,056.3	8,413.0
Western Australia	2,504.7	..	7,120.9	9,625.7	536.4	10,162.1
Tasmania	490.1	914.1	1,078.3	2,482.5	40.4	2,522.8
Northern Territory	262.6	..	1,727.9	1,990.5	696.6	2,687.0
Australian Capital Territory	226.0	..	..	226.0	372.3	598.3
<b>Australia</b>	<b>22,581.9</b>	<b>8,417.4</b>	<b>37,039.6</b>	<b>68,038.8</b>	<b>17,490.1</b>	<b>85,528.8</b>

(a) See Explanatory Notes (paragraph 19) on Tonne-kilometres. (b) Includes all of ACT for ACT registered vehicles.

**TABLE 29. TOTAL TONNE-KILOMETRES(a) (RIGID TRUCKS) BY NUMBER OF AXLES  
AND GROSS VEHICLE MASS: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988**

Number of axles	(Million tonne-kilometres)							
	Gross vehicle mass (tonnes)							
	8 and under	Over 8 to 20	Over 20	Total	SE(%)	SE(%)		
2 axle	3,718.9	7,509.7	532.9	11,761.5	(4)	(3)	(12)	(2)
3 axle	80.3	1,080.4	5,019.4	6,180.1	(27)	(7)	(5)	(4)
Other	*1.8	*17.0	3,561.1	3,579.8	(64)	(85)	(15)	(15)
<b>Total</b>	<b>3,801.0</b>	<b>8,607.2</b>	<b>9,113.4</b>	<b>21,521.5</b>	<b>(4)</b>	<b>(3)</b>	<b>(6)</b>	<b>(3)</b>

(a) See Explanatory Notes (paragraph 19) on Tonne-kilometres.

**TABLE 30. AVERAGE TONNE-KILOMETRES(a) (RIGID TRUCKS) BY NUMBER OF AXLES  
AND GROSS VEHICLE MASS: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988**

Number of axles	('000 tonne-kilometres)							
	Gross vehicle mass (tonnes)							
	8 and under	Over 8 to 20	Over 20	Total	SE(%)	SE(%)		
2 axle	18.4	58.8	139.3	35.3	(3)	(3)	(10)	(2)
3 axle	31.5	102.1	231.9	177.7	(22)	(6)	(4)	(4)
Other	27.9	330.2	500.3	495.0	(37)	(43)	(7)	(7)
<b>Total</b>	<b>18.6</b>	<b>62.2</b>	<b>279.6</b>	<b>57.3</b>	<b>(3)</b>	<b>(3)</b>	<b>(4)</b>	<b>(3)</b>

(a) See Explanatory Notes (paragraph 21) on Average concept and Explanatory Notes (paragraph 19) on Tonne-kilometres.

TABLE 31. TOTAL TONNE-KILOMETRES(a) (ARTICULATED TRUCKS) BY NUMBER OF AXLES  
AND GROSS VEHICLE MASS: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Number of axles	Gross vehicle mass (tonnes)				Total
	30 and under	Over 30 to 40	Over 40	SE(%)	
	(Million tonne-kilometres)				
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
2 axle with single axle trailer	558.0 (5)	127.8 (15)	*15.4 (60)	701.2 (5)	
2 axle with tandem axle trailer	1,963.0 (4)	1,402.1 (7)	92.8 (27)	3,457.8 (4)	
2 axle with triaxle trailer	99.2 (15)	662.4 (12)	168.9 (27)	930.4 (10)	
3 axle with tandem axle trailer	368.6 (15)	4,784.5 (5)	674.8 (13)	5,827.9 (4)	
3 axle with triaxle trailer	462.7 (16)	20,897.0 (2)	19,769.3 (3)	41,128.9 (1)	
Other	7.5 (47)	193.9 (21)	7,473.7 (9)	7,675.1 (8)	
<b>Total</b>	<b>3,459.0 (4)</b>	<b>28,067.6 (2)</b>	<b>28,194.8 (3)</b>	<b>59,721.3 (1)</b>	

(a) See Explanatory Notes (paragraph 19) on Tonne-kilometres.

TABLE 32. AVERAGE TONNE-KILOMETRES(a) (ARTICULATED TRUCKS) BY NUMBER OF AXLES  
AND GROSS VEHICLE MASS: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Number of axles	Gross vehicle mass (tonnes)				Total
	30 and under	Over 30 to 40	Over 40	SE(%)	
	('000 tonne-kilometres)				
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
2 axle with single axle trailer	138.8 (4)	354.1 (11)	5,869.1 (22)	160.0 (4)	
2 axle with tandem axle trailer	319.8 (3)	574.3 (5)	1,098.8 (20)	399.1 (3)	
2 axle with triaxle trailer	207.0 (18)	930.2 (8)	1,687.5 (20)	720.5 (12)	
3 axle with tandem axle trailer	470.4 (13)	654.7 (4)	769.1 (10)	649.8 (3)	
3 axle with triaxle trailer	1,127.0 (13)	1,530.3 (2)	2,185.8 (2)	1,779.6 (1)	
Other	153.1 (41)	763.8 (14)	4,201.1 (6)	3,686.7 (7)	
<b>Total</b>	<b>291.2 (3)</b>	<b>1,134.9 (1)</b>	<b>2,371.7 (2)</b>	<b>1,231.4 (1)</b>	

(a) See Explanatory Notes (paragraph 21) on Average concept and Explanatory Notes (paragraph 19) on Tonne-kilometres.

TABLE 33. TOTAL TONNES CARRIED(a) BY TYPE OF VEHICLE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Type of vehicle	State of registration									
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
Utilities and panel vans	26.3 (8)	22.4 (6)	16.7 (8)	5.7 (10)	11.0 (9)	1.9 (19)	0.8 (27)	0.9 (13)	85.7 (4)	
Rigid trucks	164.8 (6)	136.1 (5)	93.4 (6)	45.2 (8)	67.3 (6)	28.8 (8)	4.4 (7)	4.9 (10)	544.9 (3)	
Articulated trucks	125.2 (2)	87.1 (4)	51.6 (3)	29.5 (6)	42.8 (6)	14.8 (6)	6.4 (6)	2.1 (10)	359.5 (2)	
<b>Total</b>	<b>316.3 (3)</b>	<b>245.6 (3)</b>	<b>161.8 (3)</b>	<b>80.4 (5)</b>	<b>121.0 (4)</b>	<b>45.5 (5)</b>	<b>11.6 (5)</b>	<b>8.0 (7)</b>	<b>990.2 (2)</b>	

(a) See Explanatory Notes (paragraph 20) on Tonnes carried.

TABLE 34. AVERAGE LOAD CARRIED(a) BY TYPE OF VEHICLE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Type of vehicle	State of registration									
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
Utilities and panel vans	374 (4)	407 (4)	406 (3)	374 (5)	414 (4)	327 (12)	340 (10)	335 (9)	391 (2)	
Rigid trucks	3,171 (3)	3,166 (2)	3,392 (2)	3,958 (2)	4,443 (3)	3,784 (7)	3,344 (5)	2,618 (7)	3,432 (1)	
Articulated trucks	17,641 (0)	16,505 (1)	18,373 (1)	18,394 (2)	21,299 (2)	19,406 (2)	32,968 (3)	19,082 (2)	18,189 (1)	
<b>Total</b>	<b>2,204 (2)</b>	<b>2,307 (2)</b>	<b>2,061 (2)</b>	<b>2,555 (3)</b>	<b>2,506 (3)</b>	<b>2,342 (6)</b>	<b>3,573 (6)</b>	<b>1,331 (7)</b>	<b>2,279 (1)</b>	

(a) See Explanatory Notes (paragraph 20) on Average load carried.

SECTION 6: COMMODITY/INDUSTRY USAGE

TABLE 35. TOTAL TONNE-KILOMETRES(a) AND TOTAL TONNES CARRIED(b)  
BY COMMODITY CARRIED: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Commodity carried	Total tonne-kilometres		Total tonnes carried	
	Mil. tonne -kms	SE (%)	Mil. tonnes	SE (%)
Food (includes beverages and tobacco) and live animals				
Livestock	4,412.4	(6)	26.5 ✓	(5)
Wheat, unmilled	1,719.8	(7)	19.3 ✓	(5)
Other cereal grains, unmilled	2,070.8	(6)	14.5 ✓	(5)
Fresh fruit and vegetables	4,255.8	(5)	16.0 ✓	(5)
Animal feed (including hay, chaff, fodder etc and animal foods prepared or manufactured)	1,633.3	(6)	17.7 ✓	(6)
Other food and food preparations	9,723.3	(6)	61.1 ✓	(6)
Inedible crude materials except fuels				
Logs and sawn timber	4,507.8	(5)	37.9 ✓	(5)
Crude fertilisers, manures	686.1	(9)	7.9 × ✓	(14)
Stone, sand, gravel and earth	7,589.8	(4)	274.3 ✓	(4)
Iron ore and concentrates	479.1	(19)	8.5 ✓	(26)
Other crude materials	1,885.5	(7)	26.8 ✓	(10)
Mineral fuels, lubricants and related materials				
Coal	1,136.0	(8)	39.6 ✓	(19)
Petroleum, petroleum products and related materials	4,266.0	(7)	45.5 ✓	(6)
Other fuel products	802.1	(13)	5.3 ✓	(9)
Chemicals and related products				
Fertilisers, manufactured	1,366.5	(6)	11.0 × ✓	(10)
Other chemicals and related products	1,254.2	(8)	10.6 ✓	(10)
Machinery, transport equipment and manufactured goods				
Machinery, equipment, apparatus and appliances	6,949.5	(3)	93.4	(3)
Motor cars	867.5	(9)	3.8 } 6-6	(14)
Other transport equipment	596.0	(11)	2.8 ✓	(10)
Cement, concrete and concrete products	2,481.0	(6)	58.6 ✓	(6)
Clay bricks, tiles, pipes etc.	1,786.6	(6)	15.2	(8)
Metals and metal manufactures	4,247.9	(5)	28.5	(5)
Other manufactured goods	4,252.5	(5)	41.9	(6)
Other goods	16,096.0	(3)	120.3 }	(3)
Not stated	463.2	(31)	3.4 }	(21)
<b>Total</b>	<b>85,528.8</b>	<b>(1)</b>	<b>990.2</b>	<b>(2)</b>

(a) See Explanatory Notes (paragraph 19) on Tonne-kilometres. (b) See Explanatory Notes (paragraph 20) on Tonnes carried.

TABLE 36. CHARACTERISTICS OF VEHICLE USAGE BY INDUSTRY SERVED: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Characteristic	Total business kilometres(a)		Average business kilometres		Total tonne-kilometres		Average tonne-kilometres		Total tonnes carried		Average load carried					
	Mil. kilometres	SE(%)	'000 kilometres	SE(%)	Mil. kilometres	SE(%)	Mil. tonnes	SE(%)	Mil. tonnes	SE(%)	Kgs	SE(%)				
Agriculture, forestry, fishing, hunting	7,157.0	(4)	11.7	(3)	2,782.6	(4)	8.2	(3)	9,441.8	(4)	28.0	(4)	119.5	(3)	2,321	(2)
Mining	995.5	(10)	22.8	(7)	434.6	(10)	18.5	(7)	3,422.2	(6)	145.5	(10)	91.7	(10)	3,751	(8)
Manufacturing	3,831.6	(6)	18.4	(5)	1,539.6	(8)	21.7	(6)	7,510.6	(4)	106.0	(7)	80.8	(4)	2,276	(6)
Building and construction	7,383.5	(4)	16.5	(3)	4,087.9	(5)	18.6	(3)	8,097.6	(5)	36.9	(6)	185.6	(4)	1,383	(3)
Wholesale and retail trade	11,552.1	(4)	17.7	(3)	3,189.0	(5)	19.9	(3)	12,062.2	(5)	75.3	(6)	112.6	(4)	1,660	(5)
Road transport	6,085.6	(3)	42.2	(4)	3,268.7	(3)	37.8	(3)	39,446.4	(2)	456.1	(4)	256.4	(3)	6,544	(4)
Commonwealth, State and Local government	5,228.9	(5)	16.7	(4)	1,850.2	(6)	17.1	(4)	3,604.1	(4)	33.3	(4)	121.1	(5)	1,803	(3)
Other and not stated	7,417.1	(5)	13.8	(4)	1,015.3	(11)	18.1	(7)	1,944.1	(9)	34.7	(10)	22.4	(9)	1,012	(6)
<b>Total</b>	<b>49,651.4</b>	<b>(1)</b>	<b>16.8</b>	<b>(1)</b>	<b>18,167.9</b>	<b>(2)</b>	<b>17.1</b>	<b>(1)</b>	<b>85,528.8</b>	<b>(1)</b>	<b>80.5</b>	<b>(2)</b>	<b>990.2</b>	<b>(2)</b>	<b>2,279</b>	<b>(1)</b>

(a) Buses are excluded from the calculation of business kilometres for this table.

TABLE 37. TOTAL TONNES CARRIED(a) BY INDUSTRY SERVED: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Industry served	State of registration																	
	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia	SE(%)	SE(%)	SE(%)						
Agriculture, forestry, fishing and hunting	30.6	(5)	27.0	(7)	25.3	(10)	9.8	(10)	16.9	(7)	9.1	(9)	0.5	(14)	0.4	(44)	119.5	(3)
Mining	39.2	(19)	11.3	(23)	11.5	(16)	5.1	(34)	15.5	(17)	6.5	(26)	2.0	(21)	0.6	(29)	91.7	(10)
Manufacturing	27.4	(6)	27.0	(8)	9.7	(12)	6.2	(18)	7.4	(14)	2.5	(30)	0.2	(14)	0.3	(39)	80.8	(4)
Building and construction	58.4	(7)	50.3	(9)	30.8	(8)	14.7	(15)	19.8	(13)	5.6	(19)	2.9	(8)	3.2	(15)	185.6	(4)
Wholesale and retail trade	38.7	(8)	33.6	(8)	14.5	(7)	10.4	(11)	10.1	(11)	3.0	(13)	1.1	(15)	1.2	(14)	112.6	(4)
Road transport	78.1	(7)	65.4	(7)	41.4	(9)	18.1	(9)	35.3	(10)	12.7	(10)	3.8	(7)	1.5	(16)	256.4	(3)
Commonwealth, State and Local Government	35.3	(7)	25.9	(10)	25.1	(10)	14.5	(19)	13.4	(13)	5.7	(13)	0.8	(15)	0.6	(30)	121.1	(5)
Other and not stated	8.7	(16)	5.3	(16)	3.5	(24)	1.6	(29)	2.5	(28)	0.4	(40)	0.3	(25)	0.2	(21)	22.4	(9)
<b>Total</b>	<b>316.3</b>	<b>(3)</b>	<b>245.6</b>	<b>(3)</b>	<b>161.8</b>	<b>(3)</b>	<b>80.4</b>	<b>(5)</b>	<b>121.0</b>	<b>(4)</b>	<b>45.5</b>	<b>(5)</b>	<b>11.6</b>	<b>(5)</b>	<b>8.0</b>	<b>(7)</b>	<b>990.2</b>	<b>(2)</b>

(a) See Explanatory Notes (paragraph 20) on Tonnes carried.

## SECTION 7: BUS USAGE CHARACTERISTICS

TABLE 38. TOTAL KILOMETRES TRAVELLED BY TYPE OF BUS AND MAIN TYPE OF SERVICE: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Type of bus	(Million kilometres)					
	Main type of service					
	Route service	Dedicated school bus service	Charter service	Tour service	Other	Total
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
Buses with less than 20 seats	16.5 (29)	72.7 (18)	40.9 (19)	26.3 (34)	212.5 (13)	368.9 (9)
Buses with 20 or more seats	623.6 (4)	184.8 (6)	137.3 (11)	83.3 (17)	34.9 (14)	1,063.9 (3)
<b>Total</b>	<b>640.1 (4)</b>	<b>257.5 (6)</b>	<b>178.3 (9)</b>	<b>109.6 (15)</b>	<b>247.4 (11)</b>	<b>1,432.8 (3)</b>

TABLE 39. AVERAGE KILOMETRES TRAVELLED(a) BY TYPE OF BUS AND MAIN TYPE OF SERVICE: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Type of bus	('000 kilometres)					
	Main type of service					
	Route service	Dedicated school bus service	Charter service	Tour service	Other	Total
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
Buses with less than 20 seats	26.8 (17)	21.1 (24)	26.8 (13)	43.7 (9)	21.1 (7)	22.7 (7)
Buses with 20 or more seats	59.3 (3)	24.2 (3)	49.8 (6)	85.8 (11)	14.6 (10)	43.8 (3)
<b>Total</b>	<b>57.5 (3)</b>	<b>23.2 (8)</b>	<b>41.6 (6)</b>	<b>69.7 (9)</b>	<b>19.8 (6)</b>	<b>35.3 (3)</b>

(a) See Explanatory Notes (paragraph 21) on Average concept.

TABLE 40. TOTAL KILOMETRES TRAVELLED (BUSES) BY MAIN TYPE OF SERVICE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

(Million kilometres)

State of registration	Main type of service					Total
	Route service	Dedicated school bus service	Charter service	Tour service	Other	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
New South Wales	195.7	92.5	62.3	18.9	57.8	427.3
Victoria	123.8	56.8	52.0	19.2	47.2	299.1
Queensland	89.9	48.9	29.3	37.7	43.1	248.8
South Australia	77.2	18.2	14.3	*14.1	15.9	139.7
Western Australia	86.9	25.9	10.9	5.4	72.4	201.5
Tasmania	24.8	11.8	5.1	2.0	2.5	46.1
Northern Territory	21.5	2.2	1.5	11.4	4.5	41.1
Australian Capital Territory	20.4	1.2	2.9	0.9	3.9	29.3
<b>Australia</b>	<b>640.1</b>	<b>257.5</b>	<b>178.3</b>	<b>109.6</b>	<b>247.4</b>	<b>1,432.8</b>

TABLE 41. AVERAGE KILOMETRES TRAVELLED<sup>(a)</sup> (BUSES) BY MAIN TYPE OF SERVICE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

('000 kilometres)

State of registration	Main type of service					Total
	Route service	Dedicated school bus service	Charter service	Tour service	Other	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
New South Wales	52.6	20.5	44.7	78.8	24.4	35.0
Victoria	55.6	26.2	47.0	94.4	17.3	35.4
Queensland	48.5	24.2	40.2	74.6	19.5	34.0
South Australia	75.3	22.1	43.6	63.5	22.0	44.7
Western Australia	75.8	30.5	23.8	48.3	18.7	31.3
Tasmania	42.9	21.0	31.2	30.6	14.4	30.0
Northern Territory	197.0	18.3	31.1	53.7	19.9	57.3
Australian Capital Territory	43.4	43.6	47.8	66.0	23.3	39.7
<b>Australia</b>	<b>57.5</b>	<b>23.2</b>	<b>41.6</b>	<b>69.7</b>	<b>19.8</b>	<b>35.3</b>

(a) See Explanatory Notes (paragraph 21) on Average concept.

TABLE 42. TOTAL PASSENGERS CARRIED BY TYPE OF BUS AND MAIN TYPE OF SERVICE: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

Type of bus	Main type of service					Total
	Route service	Dedicated school bus service	Charter service	Tour service	Other	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
Buses with less than 20 seats	2.4 (46)	13.4 (23)	3.4 (20)	1.3 (41)	23.9 (13)	44.5 (10)
Buses with 20 or more seats	733.6 (5)	133.4 (8)	31.8 (13)	7.3 (18)	23.1 (30)	929.2 (4)
<b>Total</b>	<b>736.1 (5)</b>	<b>146.9 (7)</b>	<b>35.2 (12)</b>	<b>8.5 (16)</b>	<b>47.0 (16)</b>	<b>973.7 (4)</b>

TABLE 43. TOTAL PASSENGERS CARRIED BY MAIN TYPE OF SERVICE: STATE/TERRITORY OF REGISTRATION  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

State of registration	Main type of service					Total
	Route service	Dedicated school bus service	Charter service	Tour service	Other	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
New South Wales	317.1 (10)	70.8 (14)	11.3 (26)	*1.1 (63)	16.8 (41)	417.2 (7)
Victoria	159.2 (9)	27.9 (11)	10.4 (27)	0.7 (47)	5.8 (21)	204.1 (7)
Queensland	96.4 (6)	22.0 (9)	5.1 (16)	4.9 (22)	6.8 (15)	135.1 (4)
South Australia	54.8 (5)	9.5 (7)	3.4 (20)	0.7 (35)	3.3 (18)	71.8 (3)
Western Australia	49.0 (7)	7.3 (14)	2.6 (25)	0.5 (48)	11.7 (23)	71.2 (6)
Tasmania	30.7 (40)	7.4 (7)	1.7 (25)	0.1 (31)	0.7 (22)	40.5 (30)
Northern Territory	1.7 (10)	1.6 (17)	0.4 (31)	0.4 (10)	1.2 (9)	5.3 (6)
Australian Capital Territory	27.0 (1)	0.3 (11)	0.5 (32)	0.1 (12)	0.7 (19)	28.5 (1)
<b>Australia</b>	<b>736.1 (5)</b>	<b>146.9 (7)</b>	<b>35.2 (12)</b>	<b>8.5 (16)</b>	<b>47.0 (16)</b>	<b>973.7 (4)</b>

SECTION 8: DRIVER CHARACTERISTICS

TABLE 44. NUMBER OF DRIVERS(a) BY DRIVING EXPERIENCE BY AGE AND SEX OF DRIVER: AUSTRALIA  
30 SEPTEMBER 1988

Driving experience (years)	(Number of drivers)						Total(b)
	Age of driver (years)						
	15 and less than 25	25 and less than 35	35 and less than 45	45 and less than 55	55 and less than 65	65 and over	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
MALE							
Less than 2	248,300	9,268	*2,223	*1,037	*1,195	(-)	262,024
2 and less than 5	442,686	33,489	5,527	*1,888	*2,214	*1,058	486,863
5 and less than 10	372,428	454,058	22,355	4,071	4,449	*1,992	859,353
10 and less than 20	..	1,249,188	544,064	42,783	21,733	5,433	1,863,200
20 and over	..	..	1,222,202	1,144,426	876,497	614,401	3,857,524
Total(b)	1,064,830	1,750,440	1,800,787	1,199,094	912,512	626,732	7,375,756
FEMALE							
Less than 2	168,330	22,507	6,375	*1,780	*2,108	*154	201,253
2 and less than 5	371,180	68,744	16,647	10,071	2,872	*2,024	471,538
5 and less than 10	254,124	444,118	79,822	22,699	13,424	3,412	817,598
10 and less than 20	..	905,591	580,058	94,108	54,663	23,101	1,657,522
20 and over	..	..	656,630	611,218	409,837	263,465	1,941,150
Total(b)	794,998	1,445,656	1,339,908	741,172	484,310	294,273	5,109,108
PERSONS							
Less than 2	416,630	31,775	8,598	2,818	3,303	*154	463,277
2 and less than 5	813,866	102,233	22,174	11,960	5,086	3,082	958,400
5 and less than 10	626,552	898,176	102,177	26,769	17,873	5,404	1,676,951
10 and less than 20	..	2,154,779	1,124,122	136,891	76,396	28,534	3,520,722
20 and over	..	..	1,878,832	1,755,644	1,286,333	877,865	5,798,674
Total(b)	1,859,828	3,196,096	3,140,696	1,940,266	1,396,822	921,006	12,484,865

(a) Refers to drivers of non-load-carrying vehicles and includes drivers of non-freight-carrying trucks. (b) Includes values from 'Not stated' category.

TABLE 45. NUMBER OF DRIVERS(a) BY DISTANCES DRIVEN BY AGE AND SEX OF DRIVER: AUSTRALIA  
TWELVE MONTHS ENDED 30 SEPTEMBER 1988

'000 kilometres	(Number of drivers)						Total(b)
	Age of driver (years)						
	15 and less than 25	25 and less than 35	35 and less than 45	45 and less than 55	55 and less than 65	65 and over	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
MALE							
Less than 10	644,860 (3)	976,107 (2)	1,013,726 (2)	701,838 (3)	530,497 (3)	450,440 (4)	4,332,074 (1)
10 and less than 20	209,121 (6)	411,446 (4)	443,593 (4)	298,014 (5)	264,853 (5)	130,452 (7)	1,760,440 (2)
20 and less than 30	120,642 (8)	212,023 (6)	191,345 (6)	113,110 (8)	79,780 (8)	27,500 (16)	746,069 (3)
30 and less than 40	49,142 (12)	84,562 (9)	74,640 (10)	43,484 (12)	19,272 (19)	11,158 (28)	283,424 (5)
40 and less than 50	20,792 (18)	32,188 (15)	41,593 (13)	20,463 (19)	6,960 (31)	*1,970 (59)	123,966 (7)
50 and over	20,273 (19)	34,113 (14)	35,891 (13)	22,185 (17)	11,151 (23)	5,213 (40)	129,783 (7)
<b>Total</b>	<b>1,064,830 (2)</b>	<b>1,750,440 (2)</b>	<b>1,800,787 (2)</b>	<b>1,199,094 (2)</b>	<b>912,512 (3)</b>	<b>626,732 (3)</b>	<b>7,375,756 (0)</b>
FEMALE							
Less than 10	547,391 (3)	933,919 (3)	879,631 (3)	512,967 (4)	382,990 (4)	254,187 (5)	3,518,126 (1)
10 and less than 20	172,221 (7)	373,065 (4)	346,520 (4)	176,560 (6)	81,926 (9)	34,100 (15)	1,185,254 (2)
20 and less than 30	48,473 (13)	106,695 (8)	83,540 (9)	39,325 (14)	12,963 (24)	5,478 (37)	296,475 (5)
30 and less than 40	15,147 (22)	20,086 (18)	15,873 (20)	5,973 (35)	3,234 (46)	*508 (86)	60,820 (11)
40 and less than 50	6,564 (33)	5,722 (32)	7,644 (33)	5,227 (40)	*1,259 (66)	—	26,416 (17)
50 and over	5,203 (39)	6,169 (36)	6,701 (33)	1,120 (47)	*1,937 (67)	—	22,017 (19)
<b>Total</b>	<b>794,998 (3)</b>	<b>1,445,656 (2)</b>	<b>1,339,908 (2)</b>	<b>741,172 (3)</b>	<b>484,310 (4)</b>	<b>294,273 (5)</b>	<b>5,109,108 (1)</b>
PERSONS							
Less than 10	1,192,251 (2)	1,910,026 (2)	1,893,357 (2)	1,214,805 (2)	913,487 (3)	704,627 (3)	7,850,200 (0)
10 and less than 20	381,342 (4)	784,511 (3)	790,112 (3)	474,574 (4)	346,779 (4)	164,552 (6)	2,945,694 (1)
20 and less than 30	169,115 (6)	318,719 (5)	274,885 (5)	152,435 (7)	92,743 (9)	32,978 (15)	1,042,544 (2)
30 and less than 40	64,288 (11)	104,648 (8)	90,512 (9)	49,458 (11)	22,506 (17)	11,665 (27)	344,245 (4)
40 and less than 50	27,356 (16)	37,911 (13)	49,237 (12)	25,690 (17)	8,219 (28)	*1,970 (59)	150,382 (7)
50 and over	25,477 (17)	40,282 (13)	42,592 (12)	23,304 (16)	13,088 (22)	5,213 (40)	151,800 (6)
<b>Total</b>	<b>1,859,828 (2)</b>	<b>3,196,096 (1)</b>	<b>3,140,696 (1)</b>	<b>1,940,266 (2)</b>	<b>1,396,822 (2)</b>	<b>921,006 (3)</b>	<b>12,484,865 (0)</b>

(a) Refers to drivers of non-load-carrying vehicles and includes drivers of non-freight-carrying trucks. (b) Includes values from 'Not stated' category.

TABLE 46. NUMBER OF DRIVERS(a) BY TYPE OF VEHICLE AND ENGINE CAPACITY BY AGE AND SEX OF DRIVER: AUSTRALIA  
30 SEPTEMBER 1988

Type of vehicle/ engine capacity	(Number of drivers)										Total(b)	
	Age of driver (years)											
	15 and less than 25	25 and less than 35	35 and less than 45	45 and less than 55	55 and less than 65	65 and over	SE(%)	SE(%)	SE(%)	SE(%)		SE(%)
MALE												
Cars and station wagons												
Less than 1600 cc	162,228 (7)	234,420 (6)	239,651 (5)	136,949 (7)	122,629 (8)	100,849 (9)	998,334 (2)					
1600 and less than 2000 cc	197,689 (6)	301,599 (5)	297,037 (5)	200,183 (6)	149,367 (7)	104,396 (8)	1,251,838 (2)					
2000 and less than 3000 cc	207,772 (6)	399,045 (4)	447,627 (4)	305,305 (5)	252,005 (5)	179,629 (6)	1,796,339 (2)					
3000 and over	346,348 (4)	578,337 (3)	681,581 (3)	459,205 (4)	320,129 (4)	192,707 (6)	2,589,640 (1)					
Total cars and station wagons(b)	914,036 (3)	1,513,874 (2)	1,666,636 (2)	1,102,566 (2)	844,129 (3)	577,582 (3)	6,638,088 (0)					
Utilities and panel vans												
Less than 1600 cc	11,260 (25)	14,220 (19)	14,926 (17)	13,233 (19)	8,277 (25)	8,122 (25)	70,336 (8)					
1600 and less than 2000 cc	8,499 (26)	10,379 (21)	6,710 (22)	6,483 (30)	6,861 (25)	5,408 (32)	44,339 (10)					
2000 and less than 3000 cc	9,951 (21)	21,911 (17)	18,368 (17)	8,971 (22)	12,814 (21)	12,140 (23)	85,072 (8)					
3000 and over	37,497 (12)	56,974 (9)	31,671 (13)	34,171 (13)	22,906 (15)	18,440 (20)	201,767 (4)					
Total utilities and panel vans(b)	67,206 (9)	103,606 (7)	71,798 (8)	63,649 (9)	51,317 (10)	44,137 (12)	403,036 (3)					
Motor cycles												
Less than 251 cc	48,608 (5)	49,585 (5)	30,565 (7)	19,417 (8)	11,015 (11)	3,697 (18)	163,341 (2)					
251 and over	32,096 (6)	71,758 (4)	20,955 (8)	7,403 (14)	3,658 (21)	932 (41)	137,014 (2)					
Total motor cycles(b)	80,704 (4)	121,572 (3)	51,520 (5)	26,820 (7)	14,673 (10)	4,629 (17)	300,585 (0)					
Total	1,061,946 (2)	1,739,052 (2)	1,789,954 (2)	1,193,036 (2)	910,119 (3)	626,348 (3)	7,341,709 (0)					

See footnotes at end of table.

TABLE 46. NUMBER OF DRIVERS(a) BY TYPE OF VEHICLE AND ENGINE CAPACITY BY AGE AND SEX OF DRIVER: AUSTRALIA  
30 SEPTEMBER 1988 —continued

Type of vehicle/ engine capacity	(Number of drivers)									
	Age of driver (years)									
	15 and less than 25	25 and less than 35	35 and less than 45	45 and less than 55	55 and less than 65	65 and over	Total(b)	SE(%)	SE(%)	SE(%)
FEMALE										
Cars and station wagons										
Less than 1600 cc	229,265 (6)	289,297 (5)	255,109 (5)	153,118 (7)	100,440 (9)	80,931 (10)	1,111,134 (2)			
1600 and less than 2000 cc	203,765 (6)	320,435 (5)	258,942 (5)	156,747 (7)	105,770 (9)	76,955 (10)	1,123,428 (2)			
2000 and less than 3000 cc	150,132 (7)	350,941 (4)	357,941 (4)	197,306 (6)	141,974 (7)	61,019 (11)	1,261,575 (2)			
3000 and over	183,255 (6)	435,951 (4)	433,180 (4)	207,944 (5)	120,909 (7)	69,795 (10)	1,453,377 (2)			
Total cars and station wagons(b)	767,594 (3)	1,397,097 (2)	1,305,171 (2)	715,800 (3)	469,093 (4)	288,701 (5)	4,951,849 (1)			
Utilities and panel vans										
Less than 1600 cc	6,860 (28)	6,962 (27)	10,950 (19)	7,412 (28)	3,386 (35)	*1,088 (72)	36,658 (11)			
1600 and less than 2000 cc	2,854 (38)	5,805 (28)	3,985 (27)	2,344 (42)	3,395 (48)	*940 (66)	19,322 (15)			
2000 and less than 3000 cc	*1,025 (56)	11,093 (25)	7,389 (31)	1,781 (39)	1,583 (43)	*907 (67)	24,176 (15)			
3000 and over	8,876 (21)	14,915 (20)	8,960 (25)	11,080 (24)	4,917 (39)	1,932 (46)	50,679 (10)			
Total utilities and panel vans(b)	19,974 (15)	38,899 (12)	31,283 (13)	22,976 (16)	13,713 (21)	4,867 (30)	132,108 (6)			
Motor cycles										
Less than 251 cc	6,282 (15)	6,332 (17)	2,800 (23)	2,097 (27)	1,248 (37)	667 (47)	19,426 (9)			
251 and over	880 (35)	2,299 (27)	*297 (58)	*109 (100)	*229 (100)	— (·)	3,814 (20)			
Total motor cycles(b)	7,162 (14)	8,630 (14)	3,097 (21)	2,206 (26)	1,478 (35)	667 (47)	23,240 (8)			
Total	794,729 (3)	1,444,626 (2)	1,339,552 (2)	740,982 (3)	484,283 (4)	294,235 (5)	5,107,197 (1)			

See footnotes at end of table.

TABLE 46. NUMBER OF DRIVERS(a) BY TYPE OF VEHICLE AND ENGINE CAPACITY BY AGE AND SEX OF DRIVER: AUSTRALIA  
30 SEPTEMBER 1988 — continued

(Number of drivers)

Type of vehicle/ engine capacity	Age of driver (years)						Total(b)
	15 and less than 25	25 and less than 35	35 and less than 45	45 and less than 55	55 and less than 65	65 and over	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
PERSONS							
Cars and station wagons							
Less than 1600 cc	391,492 (4)	523,717 (3)	494,760 (4)	290,068 (5)	223,068 (6)	181,781 (6)	2,109,468 (1)
1600 and less than 2000 cc	401,454 (4)	622,033 (3)	555,979 (3)	356,930 (4)	255,136 (5)	181,352 (6)	2,375,266 (1)
2000 and less than 3000 cc	357,904 (4)	749,986 (3)	805,568 (3)	502,810 (4)	393,980 (4)	240,648 (5)	3,057,914 (1)
3000 and over	529,603 (3)	1,014,288 (2)	1,114,761 (2)	667,148 (3)	441,038 (4)	262,502 (5)	4,043,017 (1)
Total cars and station wagons(b)	1,681,630 (2)	2,910,971 (1)	2,971,807 (1)	1,818,366 (2)	1,313,222 (2)	866,283 (3)	11,589,937 (0)
Utilities and panel vans							
Less than 1600 cc	18,120 (19)	21,183 (15)	25,876 (12)	20,644 (16)	11,663 (20)	9,210 (24)	106,994 (6)
1600 and less than 2000 cc	11,353 (21)	16,184 (16)	10,695 (17)	8,826 (25)	10,256 (23)	6,347 (29)	63,661 (8)
2000 and less than 3000 cc	10,976 (20)	33,004 (14)	25,757 (15)	10,752 (19)	14,398 (19)	13,047 (22)	109,248 (7)
3000 and over	46,373 (10)	71,888 (8)	40,631 (11)	45,252 (11)	27,823 (14)	20,372 (18)	252,446 (4)
Total utilities and panel vans(b)	87,180 (8)	142,505 (6)	103,081 (7)	86,624 (8)	65,030 (9)	49,004 (11)	535,144 (2)
Motor cycles							
Less than 251 cc	54,890 (5)	55,917 (5)	33,365 (6)	21,514 (8)	12,263 (11)	4,364 (17)	182,767 (2)
251 and over	32,976 (6)	74,056 (4)	21,252 (8)	7,513 (14)	3,887 (20)	932 (41)	140,829 (2)
Total motor cycles(b)	87,866 (3)	130,202 (3)	54,617 (5)	29,027 (7)	16,150 (9)	5,296 (16)	323,825 (0)
<b>Total</b>	<b>1,856,675 (2)</b>	<b>3,183,678 (1)</b>	<b>3,129,505 (1)</b>	<b>1,934,017 (2)</b>	<b>1,394,402 (2)</b>	<b>920,583 (3)</b>	<b>12,448,906 (0)</b>

(a) Refers to drivers of non-load-carrying vehicles, but excludes drivers of non-freight-carrying trucks. (b) Includes values from 'Not stated' category.

**TABLE 47. AVERAGE KILOMETRES TRAVELLED BY DRIVERS(a) BY TYPE OF VEHICLE AND ENGINE CAPACITY BY AGE AND SEX OF DRIVER(b): AUSTRALIA**  
**TWELVE MONTHS ENDED 30 SEPTEMBER 1988**

Type of vehicle/ engine capacity	Age of driver (years)						Total(c)
	15 and less than 25	25 and less than 35	35 and less than 45	45 and less than 55	55 and less than 65	65 and over	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
MALE							
Cars and station wagons							
Less than 1600 cc	8.6 (9)	8.6 (7)	8.7 (8)	5.6 (12)	8.5 (10)	6.6 (9)	8.0 (4)
1600 and less than 2000 cc	9.7 (9)	11.5 (7)	9.4 (6)	10.4 (10)	9.4 (7)	8.3 (9)	10.0 (3)
2000 and less than 3000 cc	10.4 (7)	12.7 (4)	11.8 (4)	10.2 (5)	9.6 (5)	9.2 (8)	11.0 (2)
3000 and over	12.2 (5)	13.3 (3)	14.4 (3)	14.1 (4)	12.7 (4)	8.2 (10)	13.1 (2)
Total cars and station wagons(c)	10.6 (3)	12.1 (2)	12.0 (2)	11.3 (3)	10.6 (3)	8.2 (5)	11.2 (1)
Utilities and panel vans							
Less than 1600 cc	16.3 (28)	10.4 (17)	10.1 (13)	5.9 (19)	8.0 (14)	6.6 (46)	9.8 (10)
1600 and less than 2000 cc	7.0 (25)	16.3 (27)	9.0 (11)	8.1 (16)	8.2 (18)	5.2 (22)	9.6 (13)
2000 and less than 3000 cc	15.8 (26)	11.7 (13)	10.0 (14)	17.1 (23)	9.7 (18)	8.2 (20)	11.5 (8)
3000 and over	19.7 (12)	16.3 (9)	11.9 (11)	10.7 (10)	9.0 (12)	7.8 (25)	13.7 (5)
Total utilities and panel vans(c)	16.9 (10)	14.5 (7)	10.7 (7)	10.3 (9)	8.8 (8)	7.4 (15)	12.1 (4)
Motor cycles							
Less than 251 cc	5.4 (7)	3.9 (12)	4.0 (11)	2.3 (13)	3.4 (28)	1.6 (29)	4.1 (5)
251 and over	9.2 (7)	8.6 (6)	6.7 (8)	6.8 (18)	6.5 (35)	2.8 (47)	8.2 (4)
Total motor cycles(c)	6.9 (5)	6.7 (5)	5.1 (7)	3.5 (12)	4.2 (22)	1.8 (24)	6.0 (3)
Total(c)	10.7 (3)	11.9 (2)	11.7 (2)	11.1 (3)	10.4 (3)	8.1 (5)	11.0 (1)

See footnotes at end of table.

TABLE 47. AVERAGE KILOMETRES TRAVELLED BY DRIVERS(a) BY TYPE OF VEHICLE AND ENGINE CAPACITY BY AGE AND SEX OF DRIVER(b)  
 AUSTRALIA  
 TWELVE MONTHS ENDED 30 SEPTEMBER 1988—continued  
 ('000 kilometres)

Type of vehicle/ engine capacity	Age of driver (years)						Total(c)
	15 and less than 25	25 and less than 35	35 and less than 45	45 and less than 55	55 and less than 65	65 and over	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
FEMALE							
Cars and station wagons							
Less than 1600 cc	10.2 (6)	9.1 (4)	8.6 (6)	8.1 (7)	7.1 (9)	4.3 (8)	8.6 (3)
1600 and less than 2000 cc	9.0 (7)	8.9 (4)	9.7 (5)	8.0 (6)	7.0 (10)	5.7 (9)	8.6 (3)
2000 and less than 3000 cc	6.9 (8)	9.2 (5)	8.7 (4)	8.3 (6)	6.9 (7)	5.3 (10)	8.2 (2)
3000 and over	5.3 (8)	8.1 (4)	8.9 (4)	7.1 (6)	5.2 (6)	4.3 (12)	7.4 (2)
Total cars and station wagons(c)	8.1 (4)	8.8 (2)	8.9 (2)	7.8 (3)	6.5 (4)	4.9 (5)	8.1 (1)
Utilities and panel vans							
Less than 1600 cc	13.3 (23)	7.9 (48)	5.3 (17)	6.5 (26)	4.1 (21)	4.3 (9)	7.4 (14)
1600 and less than 2000 cc	3.6 (37)	6.1 (44)	8.0 (32)	4.9 (40)	3.6 (37)	0.8 (27)	5.3 (21)
2000 and less than 3000 cc	3.9 (15)	9.1 (30)	7.9 (34)	5.9 (34)	12.1 (45)	1.1 (41)	8.1 (20)
3000 and over	2.8 (31)	4.5 (33)	2.5 (28)	5.3 (19)	4.2 (39)	14.6 (36)	4.4 (15)
Total utilities and panel vans(c)	6.6 (20)	6.6 (19)	5.4 (18)	5.7 (14)	4.8 (21)	7.1 (42)	6.0 (9)
Motor cycles							
Less than 251 cc	5.7 (40)	2.4 (26)	2.9 (49)	3.8 (49)	*3.1 (59)	1.2 (43)	3.7 (23)
251 and over	2.5 (44)	8.1 (39)	4.4 (5)	— (-)	3.4 (0)	— (-)	6.0 (33)
Total motor cycles(c)	5.3 (38)	3.9 (26)	3.0 (42)	3.6 (50)	3.2 (49)	1.2 (43)	4.1 (19)
Total(c)	8.0 (4)	8.7 (2)	8.8 (2)	7.8 (3)	6.5 (4)	4.9 (5)	8.1 (1)

See footnotes at end of table.

TABLE 47. AVERAGE KILOMETRES TRAVELLED BY DRIVERS(a) BY TYPE OF VEHICLE AND ENGINE CAPACITY BY AGE AND SEX OF DRIVER(b)  
 AUSTRALIA  
 TWELVE MONTHS ENDED 30 SEPTEMBER 1988 —continued  
 ('000 kilometres)

Type of vehicle/ engine capacity	Age of driver (years)						Total(c)
	15 and less than 25	25 and less than 35	35 and less than 45	45 and less than 55	55 and less than 65	65 and over	
	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)	SE(%)
PERSONS							
Cars and station wagons							
Less than 1600 cc	9.6 (5)	8.9 (4)	8.6 (5)	6.9 (6)	7.9 (7)	5.6 (7)	8.3 (2)
1600 and less than 2000 cc	9.4 (6)	10.2 (4)	9.5 (4)	9.3 (6)	8.4 (6)	7.2 (7)	9.3 (2)
2000 and less than 3000 cc	8.9 (5)	11.1 (3)	10.4 (3)	9.5 (4)	8.6 (4)	8.2 (7)	9.8 (2)
3000 and over	9.8 (4)	11.1 (3)	12.3 (3)	11.9 (3)	10.6 (4)	7.2 (9)	11.1 (1)
Total cars and station wagons(c)	9.4 (3)	10.5 (2)	10.7 (2)	9.9 (2)	9.1 (2)	7.1 (4)	9.9 (1)
Utilities and panel vans							
Less than 1600 cc	15.2 (20)	9.5 (18)	8.0 (11)	6.1 (16)	6.9 (13)	6.3 (42)	9.0 (8)
1600 and less than 2000 cc	6.2 (23)	12.6 (25)	8.6 (13)	7.2 (14)	6.7 (19)	4.6 (23)	8.3 (11)
2000 and less than 3000 cc	14.7 (26)	10.8 (12)	9.4 (14)	15.3 (23)	9.9 (17)	7.7 (20)	10.7 (7)
3000 and over	16.4 (12)	13.8 (9)	9.8 (11)	9.4 (9)	8.2 (12)	8.4 (22)	11.8 (5)
Total utilities and panel vans(c)	14.6 (9)	12.4 (7)	9.1 (6)	9.1 (8)	8.0 (8)	7.3 (14)	10.6 (4)
Motor cycles							
Less than 251 cc	5.4 (8)	3.7 (11)	3.9 (10)	2.4 (14)	3.4 (26)	1.5 (26)	4.0 (5)
251 and over	9.0 (7)	8.6 (6)	6.6 (8)	6.7 (18)	6.3 (34)	2.8 (47)	8.2 (4)
Total motor cycles(c)	6.8 (5)	6.5 (5)	5.0 (7)	3.5 (12)	4.1 (21)	1.8 (23)	5.8 (3)
Total(c)	9.6 (2)	10.4 (2)	10.5 (2)	9.8 (2)	9.0 (2)	7.1 (4)	9.8 (1)

(a) See Explanatory Notes (paragraph 21) on Average concept. (b) Refers to drivers of non-load-carrying vehicles, but excludes drivers of non-freight-carrying trucks. (c) Includes values from 'Not stated' category.

## EXPLANATORY NOTES

### Introduction

This publication presents final statistics of motor vehicle use in Australia for the 12 months ended 30 September 1988. Preliminary results were published in Catalogue No. 9202.0 on 31 July 1989.

2. The data were collected in a sample survey conducted by the ABS throughout Australia. This is the seventh survey of motor vehicle use conducted since 1963. As in previous surveys respondents were asked to provide information on the use of selected motor vehicles for the 12 months ended 30 September 1988 or that part for which they were the registered owners.

### Survey population

3. The population for the survey includes all vehicles which were 'on register' at 30 September 1988 with a motor vehicle registration authority, except caravans, trailers, tractors, plant and equipment, vehicles belonging to the defence services and vehicles with diplomatic or consular plates. The population was identified using information obtained from the State and Territory motor vehicle registration authorities.

### Methodology

4. The vehicle population (of 9.4 million vehicles) was stratified according to body type and characteristics such as tare weight and age of vehicle. Approximately 67,000 vehicles were selected, of which 75 per cent were trucks and buses. The emphasis on 'commercial' vehicles was necessary so that survey results would reliably reflect the diverse use characteristics of commercial vehicles, recognising the significant interest of users in road freight transport activity statistics.

5. Mail questionnaires were despatched in October 1988. Three questionnaires were used: one for *non-load-carrying vehicles* such as cars, station wagons, motor cycles and non-freight-carrying vans and trucks; one for *load-carrying vehicles*; and one for *buses*. Owners of utilities and panel vans were sent both load-carrying and non-load-carrying questionnaires and asked to complete the one which was more relevant to the use of their vehicle. The bus questionnaire was used for buses with a seating capacity of 10 or more passengers. Owners of buses with a seating capacity of less than 10 passengers were sent both non-load-carrying and bus questionnaires and asked to complete the one that was more relevant to the use of their vehicle.

6. Where the selected owner had not owned the vehicle for the whole of the survey year, the details provided for the period of ownership were pro-rated to a twelve month equivalent. The statistics therefore relate to the annual rate of use of vehicles registered at the survey date of 30 September 1988 rather than the actual use of all vehicles registered at any time during the survey year. The details of seasonal use vehicles (ie those registered and used on public roads for only part of the year) were treated as if reported for the full period.

7. The stratification used for the 1988 survey is similar to the 1985 survey in that a number of vehicle characteristics were used, including vehicle type, tare weight, gross vehicle mass, age, number of axles and seating capacity.

### Definitions

8. The '*purpose*' classification is used to classify annual kilometres travelled by vehicles into the categories 'business' (laden - unladen); 'to and from work'; and 'private'. It is derived from information collected from the 'distance travelled' section and, where appropriate, the 'load carried' section of the questionnaire.

9. '*Business kilometres*' includes distance travelled for hire and reward, or charged to a business expense, or for which an allowance was received. All distances travelled for business purposes, irrespective of whether the vehicle is predominantly used for private purposes, and irrespective of vehicle type, are included in 'total business kilometres'. The '*laden - unladen*' dissection of distance travelled for business purposes was collected only for freight-carrying vehicles, i.e. utilities, 4 wheel drive vehicles (load-carrying), panel vans, vans without rear seats, rigid trucks and articulated trucks. Buses were not included.

10. '*Travel to and from work*' only includes travel between place of residence and place of work at the beginning and end of each work day.

11. *Estimates of numbers of vehicles* on register at 30 September 1988 are not consistent with the count of vehicles on register with State and Territory registration authorities as at 30 September 1988 or with the Motor Vehicle Census (see Motor Vehicle Census, Australia, 30 September 1988 - Catalogue No. 9309.0). The main difference is that vehicles on register which were unused throughout the survey period or which fall outside the survey's scope (eg consular or diplomatic vehicles) are excluded. It should be noted that vehicles have been classified to the type of vehicle as reported in the survey which may be different from the type of vehicle recorded by the motor vehicle registry.

### Vehicle classification

12. The classification of motor vehicles is the same as that used in the 1985 survey except for the addition of buses and the renaming of Other truck type vehicles to Non-freight-carrying trucks.

13. Survey results are classified by the type of vehicle as reported by vehicle owners rather than as recorded by motor registry authorities.

### Area of operation

14. Definitions of area of operation which apply for this survey are set out below.

(a) Capital City

**Sydney** — This includes the area bounded by Gosford and Wyong; Hawkesbury and Blue Mountains; Campbelltown, Wollondilly and Sutherland Local Government areas

**Melbourne** — This includes the towns of Werribee, Sunbury, Craigieburn, Whittlesea, Healesville, Berwick and the whole of Mornington Peninsula

**Brisbane** — This includes the area bounded by the towns of Caboolture, Beenleigh; the Redland Shire; the City of Ipswich and eastern part of the Pine Rivers Shire. It also includes the City of Redcliffe

**Adelaide** — This includes the area bounded by the Gulf of St Vincent; the Gawler River and the Mount Lofty Ranges from Gawler to Bridgewater through Kangarilla and Willunga to Sellicks Beach

**Perth** — This is approximately the area bounded by Yanchep and Bullsbrook; Wambro and Keysbrook and Woorloo

**Hobart** — This includes the area bounded by New Norfolk; Sorell and Carlton Creek; Brighton and Snug

**Darwin** — This includes Darwin and suburbs, Palmerston and other areas north of the Howard Springs turn-off

**Canberra** — This includes Canberra and environs (excluding Queanbeyan).

#### (b) Provincial Urban Areas

For this survey these were defined as being either:

Statistical Districts with a population greater than 40,000; or

Clusters of Collection Districts and other urban areas (as defined) with a population greater than 40,000, based upon the 1986 Population and Housing Census, i.e.

**NSW** — Within the areas of Newcastle, Wollongong, Bathurst-Orange, Maitland, Albury (excluding Wodonga), Tweed Heads (excluding Gold Coast), Queanbeyan (excluding Canberra ACT)

**Vic.** — Within the areas of Geelong, Ballarat, Bendigo, Wodonga (excluding Albury)

**Qld** — Within the areas of Sunshine Coast, Bundaberg, Rockhampton, Mackay, Townsville, Cairns, Gold Coast (excluding Tweed Heads), Toowoomba

**Tas.** — The areas bounded by the towns of Launceston, Burnie, Devonport, Penguin, Ulverstone and La Trobe.

#### Vehicle use

15. Vehicle use describes a vehicle's main use and includes the following categories:

(a) Carrying for hire and reward (by an employee or by owner driver);

(b) Used in own business, profession, farm or for Government purposes;

(c) Other and not stated where either of the above could not be determined.

#### Industry served

16. Where a vehicle's use was classified as '*used in own business*', the industry served is the industry in which the vehicle is used. If the client is a government instrumentality other than an electricity, gas or water authority the industry served is 'Australian, State or Local Government'.

17. Where the vehicle's use was classified as '*carrying for hire and reward*', the industry served is the industry of the main client. If there was no main client the industry served is shown as 'road transport'.

#### Commodity classification

18. The classification of commodities is based on the Australian Transport Freight Commodity Classification.

#### Other terms used

19. *Total tonne-kilometres* is the product of reported average load and total business kilometres travelled while laden, for each vehicle. *Total fuel consumption* is the product of total kilometres and the reported average rate of fuel consumption (expressed in litres/100 kms) for each vehicle. *Average rate of fuel consumption* is calculated by dividing the total annual fuel consumption by total annual kilometres for each vehicle type.

20. *Total tonnes carried* is the total weight of goods and freight carried during the survey period. The estimate of annual tonnes carried relates to goods and freight uplifted by vehicles and therefore will overstate, to the extent that transshipment occurs (i.e. the transfer of goods and freight from one vehicle to another), the actual physical quantity of goods and freight moved during the survey period. *Average load carried* is calculated by averaging the average loads reported by each vehicle owner. Only those vehicles with laden business kilometres are included.

#### Concepts of averages

21. Many tables in this publication present data as 'averages'. The denominator used in calculating these averages is the estimated number of vehicles that contributed to a particular cell. For example, in Table 8 the average kilometres travelled for business purposes in Australia by cars and station wagons was derived by dividing the number of kilometres travelled for business purposes by cars and station wagons by the number of such vehicles which were used for business travel. Excluded from the denominator are all those cars and station wagons which reported no business kilometres. As the denominators used to calculate the cells of a table are dif-

ferent, the averages along a row cannot be used to derive the total column entry for that row.

### Reliability of estimates

22. Since the statistics produced from the survey are based on a sample, they may differ from the figures which would have been obtained from a complete enumeration using the same questionnaire and procedures. One measure of the likely difference is given by the standard error (S.E.). In the statistics in this publication, the standard error is shown as a percentage of the associated estimate and is termed relative standard error and abbreviated as SE(%). There are about 19 chances in 20 that the difference will be less than two standard errors. For example in Table 10 the estimate of average kilometres for all vehicles registered in NSW is 16,800 kms with a relative standard error of 1 per cent of the estimate, that is, about 168 kms. Therefore, there are two chances in three that the value which would have been obtained from a complete census will fall in the range 16,632 kms to 16,968 kms and about 19 chances in 20 that the value will fall within the range 16,464 kms to 17,136 kms.

23. Some of the standard errors associated with the estimates contained in this publication are relatively high. However, any limit for publication purposes would have been arbitrary and it was therefore decided to publish the figures, leaving it to users to exercise the necessary caution when making comparisons between estimates for the 1988 survey and those for earlier surveys. Some movements between survey periods, particularly at finer levels of detail, may be due more to sampling variability than to an actual change. The standard error of a movement estimate can be calculated by taking the square root of the sum of the squares of the standard errors of the two estimates being compared. For example, using Table 16 and the equivalent data from the 1985 survey, for utilities and panel vans in South Australia the relevant data are:

	1985	1988
Average annual kms	18,000	18,100
SE(%)	7	5
S.E. (calculated)	1,260	905

Therefore the S.E. of the movement (18,100-18,000 = 100) is

$$\sqrt{905^2 + 1,260^2} = 1,551$$

Thus in the example we cannot be confident that there has been an increase in average annual kilometres. There are 19 chances in 20 that the movement is in the range -3,002 to +3,202 (100 ± 2 S.E.'s). For some estimates the relative standard error differs considerably between States.

The imprecision due to sampling, which is measured by the standard error is not the only type of inaccuracy to which the estimates are subject. Other inaccuracies, referred to collectively as non-sampling error, may occur because of deficiencies in the data received from registration authorities and imperfections in reporting by respondents. Every effort is made, however, to reduce non-sampling error to a minimum by careful design of questionnaires, efficient operating procedures and appropriate methodology.

### Data quality

24. While it was not possible to measure the accuracy of all aspects of the SMVU, a detailed study on the reported distances travelled was undertaken by means of a separate Odometer Survey.

25. Actual data of annual distance travelled were obtained for a sample of vehicles by comparing two odometer readings taken 12 months apart. These distances were compared with the estimates of distance travelled resulting from the SMVU. For practical reasons these estimates were restricted to NSW and to vehicles manufactured before 1987. Analysis of the Odometer Survey indicates that the SMVU overestimates the distance travelled by an average of 11.9%.

26. The level of overestimation varies with the type of vehicle. For example, cars and station wagons are 12.3% higher, with a confidence interval of 7.8% to 16.8%, rigid trucks are 9.3% higher, with a confidence interval of 3.5% to 15.1% and articulated trucks are 5.5% higher, with a confidence interval of 1.2% to 9.8%.

27. It was also found that the overestimation for cars and station wagons is confined mainly to those vehicles that travelled over 12,000 kilometres. For rigid trucks the overestimation occurs mainly in those vehicles that travel between 10,000 and 50,000 kilometres. No such pattern exists for articulated trucks. Further findings and a more detailed description of this analysis can be provided on request.

28. The quality of data is a function of several factors including form design limitations, collection difficulties, processing procedures, data capture and output requirements. Some of these factors can be readily quantified such as the size of the sampling error associated with the use of scientific sample design. Other (non-sampling) errors are more difficult to quantify and largely depend on the integrity, skills and experience of the collecting agency.

29. Reference was made above to the check available on distance travelled which was provided by the Odometer Survey. An attempt has been made to evaluate some other aspects of quality of data collected in this survey by studying the sources of changes made to the values originally reported by respondents during editing of the data.

30. For the Survey of Motor Vehicle Use, a sample of forms was selected and analysed to ascertain the incidence

and impact of changes to reported values. This study found that about 90 per cent of the sampled forms were adjusted in some way, with an average of 5 items per form being altered. In total, 34 per cent of respondents were contacted as a result of queries raised in the editing cycle. About 70 per cent of the changes involved providing values where respondents had failed to enter a figure in a particular field.

New values were obtained as follows:

- 40 per cent by contacting the respondent
- 37 per cent by inference from other data supplied by respondents in the form
- 11 per cent by clerical access to reference material (e.g. selected vehicle characteristics)
- 12 per cent by other means, such as clerical or computer imputation of a typical value for selected items (e.g. fuel consumption rates for 4 cylinder cars).

The impact of these changes to the reported data items was generally small — less than 5 per cent of the estimated total value for most items. However, the incidence of non-response for some items was significant. For example, about 15 per cent of the estimated total distance travelled by articulated trucks was clerically imputed.

#### Load carried

31. From results of post survey analyses it is known that respondents have particular difficulty in responding to questions relating to total loads carried. The problems appear to be twofold: failure to carefully read the definitions provided, which can result in varying interpretations of what is required, and the lack of a ready data source resulting in a high degree of estimation.

32. Changes in form design, introduced in 1988 in an attempt to facilitate response, may have further affected data comparability across surveys.

33. Post survey analysis of 1988 data indicates that up to 45% of respondents were unable to answer the questions adequately. While clerical editing of the data has of necessity, been extensive, the statistics remain subject to considerable non-sampling error and apparent trends should, therefore, be interpreted with caution.

#### Related publications

34. Users may also wish to refer to the following publications containing statistics of new motor vehicle registrations.

*Motor Vehicle Census, Australia, 30 September 1988* (9309.0) — issued three yearly.

*Motor Vehicle Registrations, Australia* (9303.0) — issued monthly.

*Interstate Road Freight Movement, Australia* (9214.0) issued quarterly.

*Motor Vehicle Registrations, Australia, 1987-88* (9304.0) issued annually.

35. Current publications produced by the ABS are listed in the *Catalogue of Publications and products, Australia* (1101.0). The ABS also issues on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

#### Unpublished statistics

36. As well as the statistics included in this and related publications, the ABS may have other relevant unpublished data available. Inquires should be made to the contact in the Phone Inquires box at the front of this publication.

#### Symbols and other usages

kms	kilometres
n.a.	not available
..	not applicable
--	nil or rounded to zero
SE(%)	relative standard error
*	relative standard error of the estimate exceeds 50%

37. Where figures have been rounded, discrepancies may occur between the sums of component items and totals.

#### Electronic Services

DISCOVERY. Key \*656# for selected current economic, (VIATEL) social and demographic statistics

AUSSTATS. Thousands of up-to-date time series are available on this ABS on-line service through PAXUS COMNET. For further information phone the AUSSTATS Help Desk on (06) 252 6017.

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- foreign trade statistics tailored to users' requirements. Further information is available on (06) 252 0405.
- text and tables for Selected Main Economic Indicator publication. Further information is available on (06) 252 5405.

#### Floppy disk service

Selected ABS statistics are available on floppy disk. Further information is available on (06) 252 6684.

## **OTHER MOTOR VEHICLE INFORMATION AVAILABLE FROM THE ABS**

The information contained in this publication represents only a small part of the information available from the ABS on motor vehicles and their usage.

We can provide you with more information via a range of tables specially tailored to meet your data requirements. For instance, you may require details for each State about:

- average kilometres travelled by tare weight of vehicles;
- numbers of vehicles by tare weight and postcode;
- total and average fuel consumption by vehicle type by year of manufacture;
- loads carried by commercial vehicles;
- motor vehicle registrations by postcode;
- make of vehicle by postcode and year of manufacture;
- number of vehicles by type of vehicle by purpose (business/private) by
- State of registration;

To meet your specific output needs, such products can be supplied on your choice of output media, including floppy disk, microfiche and hard copy.

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### **FOR MORE INFORMATION CONTACT US ABOUT YOUR REQUIREMENTS.**

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