

## TRAVEL



## Comparing travel modes

**Table TR1: Number of trips in the survey by travel mode and overall trip purpose**

Trip Purpose	Travel mode (Number of trips in survey)							
	Walk	Vehicle driver	Vehicle pass'ger	Bicycle	Bus	Taxi	Other (Note 1)	Total (Note 2)
Home (Note 3)	7 048	21 195	11 486	1 055	1 010	200	201	42 195
Work - main job	1967	8 806	979	236	171	29	139	12 327
Work - other job	72	428	84	18	14	4	2	622
Work - employer's business	489	5 075	328	60	30	23	48	6 053
Education	1 698	537	1 965	350	752	9	30	5 341
Shopping	3 257	8 259	3 706	163	117	21	40	15 563
Personal business or services (Note 4)	1 392	4 529	1 480	89	47	26	33	7 596
Social/ recreational	5 544	10 315	9 754	610	314	139	153	26 829
Accompanying someone else	1 070	6 398	5 325	21	44	8	14	12 880
<b>Total (Note 2)</b>	<b>22 539</b>	<b>65 543</b>	<b>35 109</b>	<b>2 602</b>	<b>2 499</b>	<b>461</b>	<b>660</b>	<b>129 414</b>

### Notes

1. The 'other' category includes 254 train trips, 33 ferry trips, 77 plane trips and 296 trips which were classified as 'other' on the survey forms and may include travel by boat, horse, electric wheelchairs etc.
2. Totals include trips for which purpose and/ or trip mode were not recorded.
3. 'Home' includes all trips whose destination was the respondent's home. This may include returning home from work, education, etc.
4. 'Personal business and services' includes trips for medical, dental and social welfare purposes.
5. In this section each leg of an outing is referred to as a trip. For instance, travelling to work may consist of three separate stages, walking to the station, travelling between suburbs by train and then catching a bus to the place of work. This would be included in the table above as three separate trips, each with a different trip mode but with the same overall trip purpose.

**Table TR2: Trips by travel mode and overall trip purpose  
National annual estimates, all ages**

Trip Purpose	Travel mode (million trips: national annual estimates)							
	Walk	Vehicle driver	Vehicle pass'ger	Bicycle	Bus	Taxi	Other (Note 1)	Total (Note 2)
Home (Note 3)	359.2	1003.9	532.2	45.1	56.0	11.8	11.1	2019.3
Work - main job	109.4	414.4	48.8	13.6	10.3	Note 5	7.6	606.3
Work - other job	5.5	16.9	4.2	Note 5	Note 5	Note 5	Note 5	28.7
Work - employer's business	25.7	233.1	17.7	1.6	2.3	Note 5	2.3	284.3
Education	88.7	30.7	93.9	13.9	35.4	Note 5	2.0	264.9
Shopping	163.1	392.5	171.0	6.2	7.4	Note 5	1.9	743.7
Personal business or services (Note 4)	69.8	206.1	70.6	4.3	2.8	Note 5	1.4	356.9
Social/ recreational	281.5	486.0	438.8	25.5	17.2	7.7	6.3	1263.1
Accompanying someone else	48.0	309.3	240.9	Note 5	2.0	Note 5	Note 5	601.9
Total (Note 2)	1151.1	3093.0	1618.2	111.4	134.8	27.8	33.5	6169.8

Notes

1. The 'other' category includes trips by train, ferry, and plane as well as trips which were classified as 'other' on the survey forms. (These may include travel by boat, horse, electric wheelchairs etc).
2. Totals have been calculated before rounding and include 0.67 million trips (national estimate after weighting) for which purpose and/ or trip mode were not recorded.
3. 'Home' includes all trips whose destination was the respondent's home. This may include returning home from work, education, etc.
4. 'Personal business and services' includes trips for social welfare purposes.
5. Estimates could not be made in categories where the number of trips sampled was less than 30.
6. Where the number of trips in the sample was less than 100 (see Table TR1), the accuracy of the estimates will be unreliable.

**Table TR3: Distance travelled by travel mode and overall trip purpose  
National annual estimates, all ages**

Trip Purpose	Travel mode (100 million km travelled: national annual estimates)						
	Vehicle driver	Vehicle pass'ger	Bicycle	Bus	Taxi	Other (Note 1)	Total (Note 2)
Home (Note 3)	86.8	54.4	1.1	6.6	0.7	6.0	155.5
Work - main job	43.9	5.7	0.4	0.9	Note 5	1.0	52.1
Work - other job	1.5	0.5	Note 5	Note 5	Note 5	Note 5	2.3
Work - employer's business	27.0	2.7	0.0	0.2	Note 5	5.3	35.5
Education	3.5	4.8	0.3	4.7	Note 5	0.2	13.5
Shopping	22.9	14.7	0.1	0.9	Note 5	0.3	38.9
Personal business or services (Note 4)	13.5	6.1	0.1	0.6	Note 5	1.2	21.5
Social/ recreational	53.6	58.8	0.7	3.4	0.3	1.5	118.4
Accompanying someone else	20.7	16.9	0.0	0.3	Note 5	Note 5	38.3
<b>Total (Note 2)</b>	<b>273.2</b>	<b>164.6</b>	<b>2.9</b>	<b>17.9</b>	<b>1.5</b>	<b>16.1</b>	<b>476.1</b>

Notes

1. The 'other' category includes trips by train, ferry, and plane as well as trips which were classified as 'other' on the survey forms. (These may include travel by boat, horse, electric wheelchairs etc).
2. Totals have been calculated before rounding and include 0.67 million trips (national estimate after weighting) for which purpose and/ or trip mode were not recorded.
3. 'Home' includes all trips whose destination was the respondent's home. This may include returning home from work, education, etc.
4. 'Personal business and services' includes trips for medical, dental and social welfare purposes.
5. Estimates could not be made in categories where the number of trips sampled was less than 30.
6. Where the number of trips in the sample was less than 100 (see Table TR1), the accuracy of the estimates will be unreliable.
7. Distance was not recorded for walking trips. Distances for 'other' modes are based on respondent estimates. Other distances were calculated from route information given by the respondent.

**Table TR4: Number of trips and distance travelled by travel mode**

Travel mode	Trips in survey	National, annual estimates					
		Million trips		100 million km		km per trip (Note 2)	
	1997/98	1997/98	%change since 1989/90	1997/98	%change since 1989/90	1997/98	%change since 1989/90
Vehicle driver	65 543	3093.0	22%	273.2	35%	8.8	10%
Vehicle passenger	35 109	1618.2	15%	164.6	14%	10.2	-1%
Walk	22 539	1151.1	2%	Note 5	Note 5	Note 5	Note 5
Bicycle	2 602	111.4	-26%	2.9	-19%	2.6	35%
Bus	2 499	134.8	-11%	17.9	16%	13.7	13%
Taxi	461	27.8	58%	1.5	64%	5.4	6%
Train	254	15.3	17%	3.3	-10%	21.9	-21%
Plane (Note 3)	77	3.9		11.9		459.4	
Ferry (Note 3)	33	2.0		0.3		19.8	
Other (Note 4)	296	12.3	17%	0.6	-53%	5.4	-58%
Total	129 414	6169.8	14%	476.1	24%	7.7	9%

Notes:

1. As travel by children under five was not included in the 1989/90 travel survey, the percentage change figures in the above table are based on travel by ages 5 and over only. (1997/98 estimates includes trips by all ages).
2. Distance per trip has been calculated on trips of known length only. The 'million trips' column shows all trips including those of unknown length.
3. The accuracy of the estimates for plane and ferry travel may be unreliable due to small samples sizes. For the same reason, percentage change comparisons could not be calculated.
4. The 'other' category includes travel by boat, horseback, electric wheelchairs etc.
5. Distance estimates are not available for walking trips.
6. Totals have been calculated before rounding.

**Table TR5: Travel mode**

**a) by age group**

Age group	Travel mode (million trips: national annual estimates)						
	Walk	Vehicle driver	Vehicle passenger	Bicycle	Bus	Other (Note1)	Total trips (Note 2)
0-4	52.3		322.3	0.6	1.3	1.7	378.8
5-9	87.5		278.2	10.4	17.4	1.7	396.8
10-14	111.5		211.4	33.0	35.5	4.2	397.0
15-19	135.9	144.2	155.9	20.8	28.4	7.8	493.1
20-24	110.3	262.8	108.9	18.5	9.2	10.2	519.8
25-29	94.0	313.5	76.3	3.9	5.9	5.0	498.6
30-34	92.6	359.9	74.8	4.5	7.0	4.4	543.2
35-39	86.0	456.7	62.6	3.3	7.8	5.3	621.6
40-44	59.3	384.4	54.7	3.9	4.0	5.0	511.2
45-49	74.1	336.4	57.8	1.5	4.4	4.7	479.0
50-54	58.8	247.5	43.8	2.1	3.0	2.0	357.3
55-59	42.2	173.6	39.3	0.8	3.3	4.2	263.3
60-64	33.0	127.4	31.6	1.6	1.7	0.9	196.2
65-69	39.1	105.5	31.4	3.4	2.8	0.5	182.8
70-74	29.9	80.8	28.3	2.0	1.2	0.6	142.9
75-79	24.0	58.6	24.2	1.0	0.3	1.9	109.9
80+	14.8	23.8	14.4	0.1	1.1	0.8	55.0
Total (Note 2)	1151.1	3093.0	1618.2	111.4	134.8	61.3	6169.8

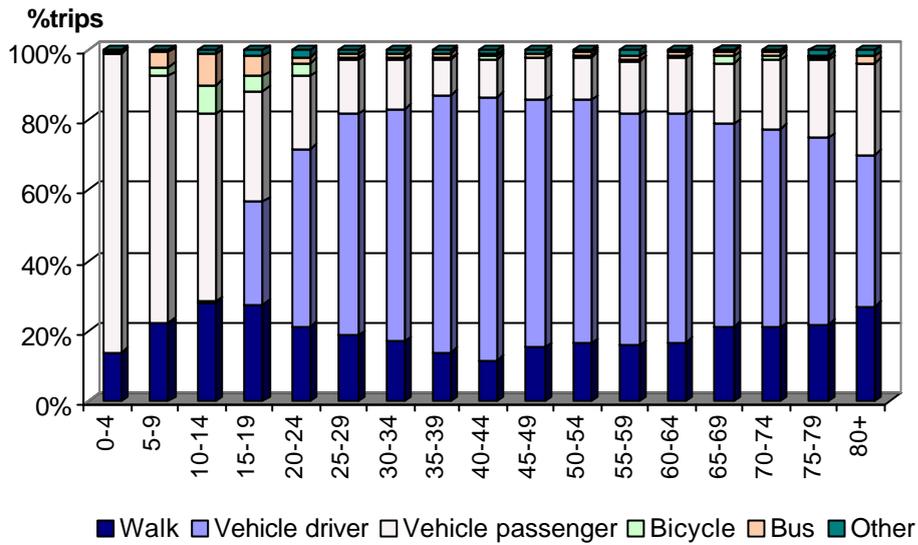
**b) by gender**

Gender	Travel mode (million trips: national annual estimates)						
	Walk	Vehicle driver	Vehicle passenger	Bicycle	Bus	Other (Note1)	Total trips (Note 2)
Female	632.5	1401.0	961.9	24.7	72.7	29.2	3122.0
Male	518.6	1691.8	656.3	86.7	62.0	32.1	3047.7
Total	1151.1	3093.0	1618.2	111.4	134.8	61.3	6169.8

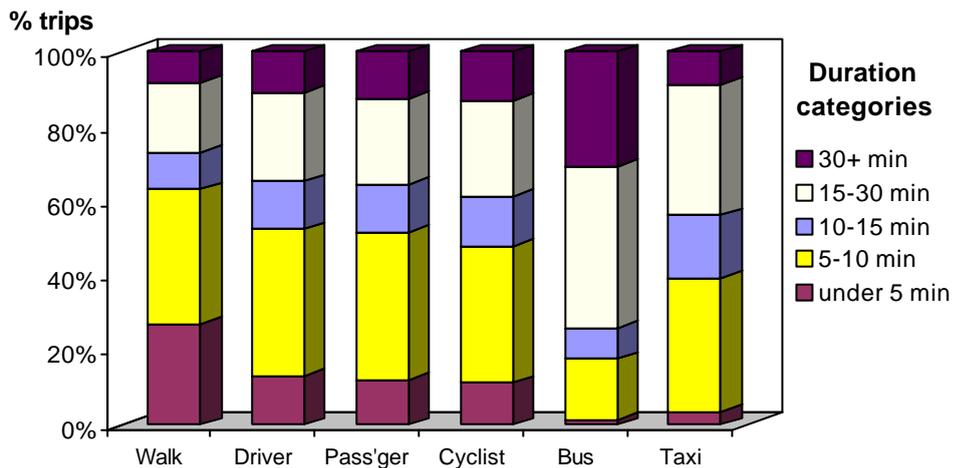
Notes:

1. The 'Other' category includes travel by train, ferry, taxi and plane as well as boat, horseback, electric wheelchairs etc.
2. Totals have been calculated before rounding and include trips where respondent age or travel mode was unknown.

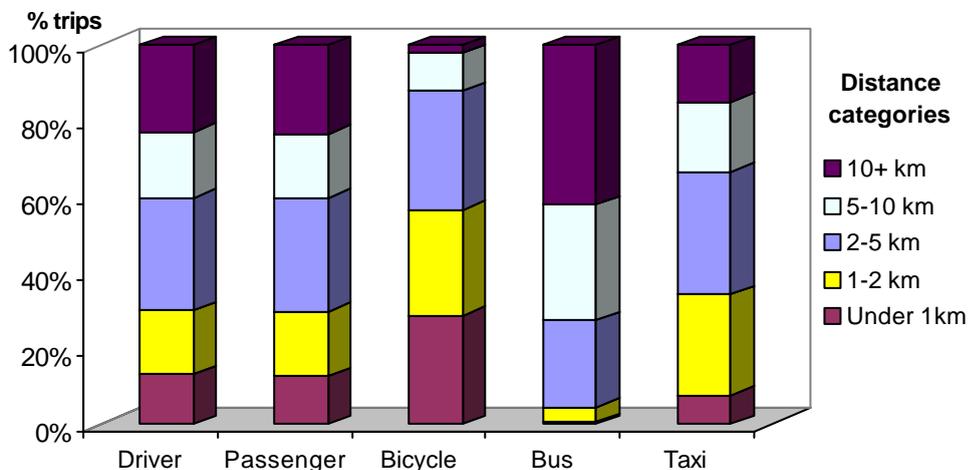
**Fig TR1: Age group profiles: percentage of age group trips by mode**



**Fig TR2: Trip duration by mode**



**Fig TR3: Trip distance by mode**



**Table TR6: People killed or injured in reported injury crashes per 100 million km travelled, by travel mode**

Age group	Driver (light 4 wheeled vehicle)	Passenger (light 4 wheeled vehicle)	Motorcycle rider	Cyclist (Note 1)	Bus passenger
0-14		11		291	1.1
15-29	48	45	973	187	0.9
30-44	18	17	325	270	1.8
45-59	15	13	517	283	1.2
60+	26	19	Note 2	116	1.7

**Table TR7: People killed or injured in reported injury crashes per million hours of travel, by travel mode**

Age group	Driver (light 4 wheeled vehicle)	Passenger (light 4 wheeled vehicle)	Motorcycle rider	Cyclist (Note 1)	Bus passenger	Pedestrian
0-14		4		23	0.3	7
15-29	18	18	279	24	0.3	4
30-44	7	8	104	39	0.5	3
45-59	5	6	174	33	0.4	2
60+	9	7	Note 2	13	0.5	5

Notes to Table TR6 and TR7

1. Cyclists injured in reported motor vehicle crashes only
2. There were insufficient trips to permit calculation of reliable estimates for this age group.
3. These age bands were selected to give adequate sample sizes for all modes of transport in the table. Where sample sizes permit, more detailed age breakdowns are given in the relevant sections of this report (drivers, passengers etc).

**Table TR8: Number of trips and distance travelled by vehicle type**

**a) Drivers**

Vehicle type	Trips in survey		National, annual estimates					
			Million trips		100 million km		km per trip (Note 2)	
	1989/90	1997/98	1989/90	1997/98	1989/90	1997/98	1989/90	1997/98
Car or station wagon	30505	52395	2089.0	2543.4	158.3	213.0	7.6	8.4
Van or ute	3973	9965	296.8	405.5	25.4	40.3	8.6	10.0
Truck	960	2144	71.9	101.1	12.6	16.4	17.5	16.3
Taxi	142	167	7.6	2.1	0.4	0.1	5.0	3.8
Motorcycle	549	615	40.6	27.2	2.8	1.8	6.9	6.5
Other (incl. unknown type)	195	253	18.1	13.6	1.5	1.6	8.5	11.8
<b>Total</b>	<b>36406</b>	<b>65539</b>	<b>2529.4</b>	<b>3093.0</b>	<b>201.7</b>	<b>273.2</b>	<b>8.0</b>	<b>8.8</b>

**b) Passengers aged 5 and over**

Vehicle type	Trips in survey		National, annual estimates					
			Million trips		100 million km		km per trip (Note 2)	
	1989/90	1997/98	1989/90	1997/98	1989/90	1997/98	1989/90	1997/98
Car or station wagon	13717	22779	951.2	1065.1	101.5	110.1	10.7	10.3
Van or ute	1550	4595	117.9	192.9	14.4	23.2	12.3	12.0
Truck	257	462	34.1	22.4	3.6	3.5	10.6	15.7
Motorcycle	34	33	3.0	1.4	0.4	0.1	Note 3	Note 3
Other (incl. unknown type)	96	306	6.8	14.2	1.0	0.4	14.8	23.5
<b>Total</b>	<b>15850</b>	<b>28175</b>	<b>1124.5</b>	<b>1295.9</b>	<b>121.6</b>	<b>139.0</b>	<b>10.8</b>	<b>10.7</b>

**c) All passengers, 1997/98 survey**

Vehicle type	Trips in survey	National, annual estimates		
		Million trips	100 million km	km per trip (Note 2)
Car or station wagon	28642	1338.2	131.8	9.9
Van or ute	5601	238.0	26.8	11.3
Truck	502	25.5	3.8	14.7
Motorcycle	40	1.7	0.1	Note 3
Other (incl. unknown type)	324	14.7	2.1	14.3
<b>Total</b>	<b>35109</b>	<b>1618.2</b>	<b>164.6</b>	<b>10.2</b>

Notes to Table TR8

1. Travel by children under five was not included in the 1989/90 travel survey and is excluded from the 1997/98 figures in table b) above to enable comparison between the two surveys.
2. The 'million trips' column shows **all** trips including those of unknown length. Distance per trip has been calculated on trips of known length only.
3. The accuracy of the estimates for motorcycle passengers may be unreliable due to small samples sizes.

## Driver trips

**Table TR9: Million driver trips annually (all vehicle types)  
by age group and gender**

Age group	Females		Males		Total	
	1989/90	1997/98	1989/90	1997/98	1989/90	1997/98
15-19	39.4	68.7	70.5	75.6	109.9	144.2
20-24	89.9	129.3	180.2	133.4	270.1	262.8
25-29	117.7	142.6	170.5	170.8	288.3	313.5
30-34	164.4	170.0	189.2	189.9	353.6	359.9
35-39	146.1	233.8	186.0	222.9	332.2	456.7
40-44	144.7	194.3	153.8	190.0	298.5	384.4
45-49	102.0	135.3	154.8	201.0	256.7	336.4
50-54	62.9	96.1	107.5	151.4	170.4	247.5
55-59	47.7	61.5	88.1	112.1	135.8	173.6
60-64	42.8	55.8	93.7	71.6	136.5	127.4
65-69	19.0	36.0	66.4	69.4	85.4	105.5
70-74	17.8	35.8	30.6	45.0	48.4	80.8
75-79	12.8	22.7	13.9	35.9	26.7	58.6
80+	3.7	9.3	10.3	14.5	14.0	23.8
<b>Total</b>	<b>1012.8</b>	<b>1401.0</b>	<b>1516.6</b>	<b>1691.8</b>	<b>2529.4</b>	<b>3093.0</b>

Note: Totals include estimates based on travel by respondents of unknown age

**Table TR10: Distance driven by age group and gender for drivers of all vehicle types (national annual estimates, 100 million km)**

Age group	Females		Males		Total	
	1989/90	1997/98	1989/90	1997/98	1989/90	1997/98
15-19	2.5	4.4	4.8	5.7	7.3	10.1
20-24	6.6	11.2	17.1	13.4	23.7	24.5
25-29	7.4	11.0	18.8	19.9	26.2	30.9
30-34	9.8	11.4	19.6	20.1	29.4	31.5
35-39	8.1	16.5	18.9	24.6	27	41.1
40-44	8.8	12.7	15.4	21.8	24.2	34.4
45-49	6.1	10.3	12.2	21.2	18.3	31.4
50-54	3.7	6.7	10.7	16.1	14.4	22.7
55-59	2.5	4.8	6.6	10.2	9.1	15
60-64	2.1	3.3	9.5	7.3	11.6	10.6
65-69	1.1	2.8	3.9	6.1	5.0	8.9
70-74	0.7	2.2	3.0	3.3	3.7	5.5
75-79	0.5	0.8	0.6	2.5	1.1	3.3
80+	0.2	0.3	0.4	0.8	0.6	1.1
<b>Total</b>	<b>60.2</b>	<b>99.2</b>	<b>141.5</b>	<b>174.0</b>	<b>201.7</b>	<b>273.2</b>

Note: Totals include estimates based on travel by respondents of unknown age and/or gender.

## Drivers of cars, vans and utes

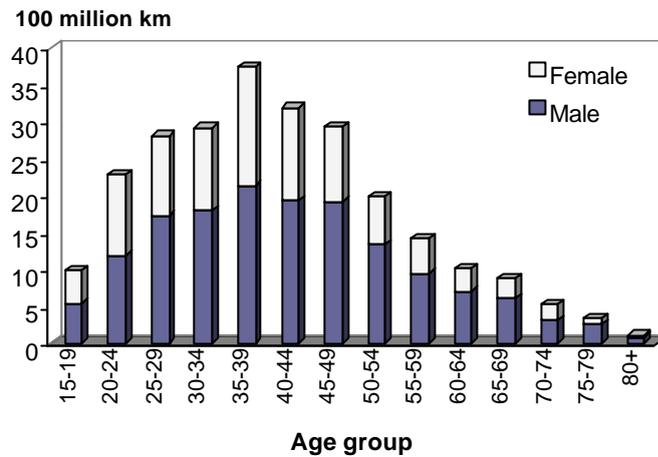
**Table TR11: Drivers of cars, vans and utes; estimates of number of trips, distance driven and distance per trip by age group and gender (1997/98).**

Age group	Females				Males			
	Trips in survey	Million trips	100 million km	km per trip (Note 1)	Trips in survey	Million trips	100 million km	km per trip (Note 1)
15-19	1 183	68.2	4.4	6.5	1 262	70.3	5.4	7.6
20-24	2 267	127.6	11.0	8.6	1 970	120.4	11.9	9.9
25-29	2 908	140.7	10.8	7.7	2 673	156.4	17.3	11.1
30-34	3 661	168.1	11.3	6.7	3 535	182.2	17.9	9.8
35-39	5 095	228.2	16.0	7.0	4 180	197.9	21.4	10.8
40-44	4 152	192.5	12.6	6.5	3 881	179.3	19.3	10.8
45-49	3 247	134.2	10.2	7.6	3 772	189.3	19.2	10.1
50-54	2 316	95.6	6.6	6.9	3 095	133.4	13.3	10.0
55-59	1 649	61.1	4.8	7.8	2 470	103.7	9.5	9.2
60-64	1 209	52.7	3.1	5.9	1 718	67.3	7.0	10.4
65-69	875	36.0	2.8	7.7	1 559	66.8	6.0	8.9
70-74	733	35.8	2.2	6.3	982	42.1	3.1	7.4
75-79	446	22.7	0.8	3.5	687	35.7	2.5	6.9
80+	184	9.3	0.3	3.6	347	14.5	0.8	5.5
Total (Note 2)	30 115	1382.4	97.7	7.1	32 245	1566.5	155.6	10.0

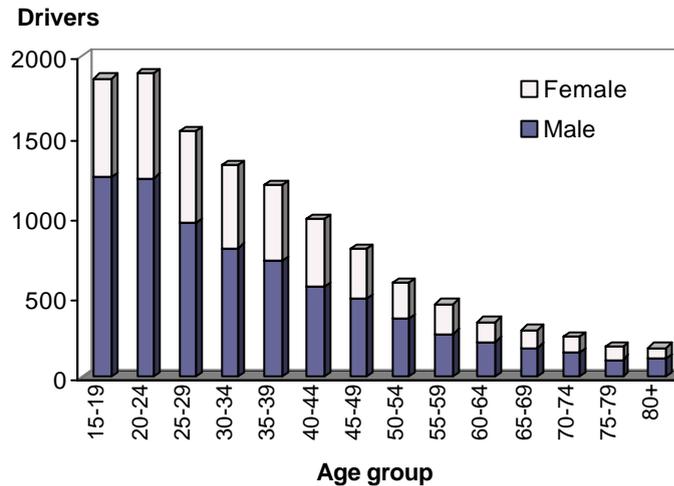
### Notes

1. The 'million trips' column shows **all** trips including those of unknown length. Distance per trip has been calculated on trips of known length only.
2. The total rows include trips for which driver age was not recorded.

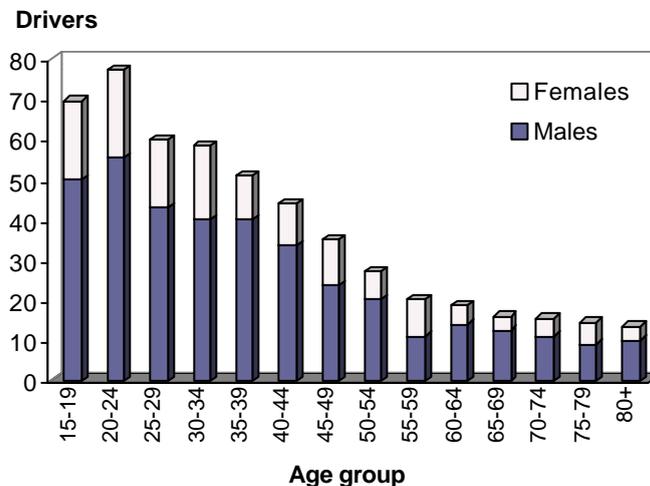
**Fig TR4: Annual distance driven in light 4-wheeled vehicles  
National estimates (100 million km)**



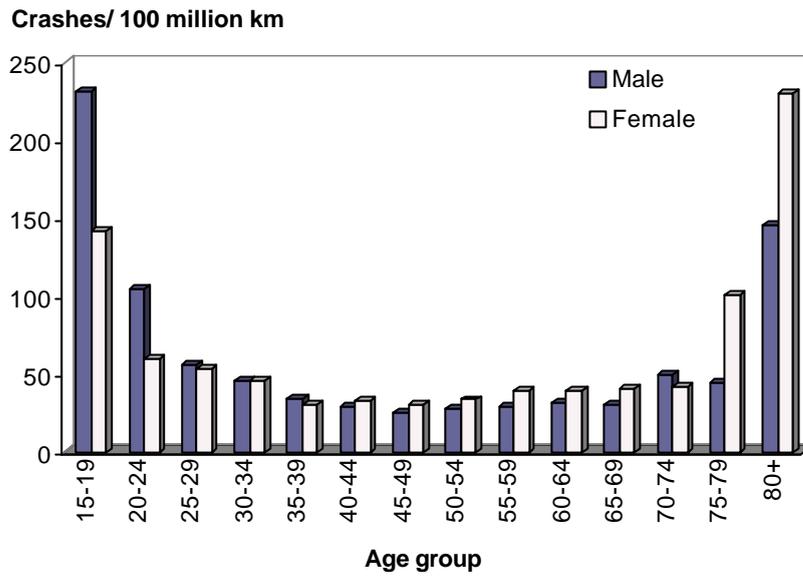
**Fig TR5: Drivers involved in reported fatal & injury crashes  
(cars, vans and utes, annual average 1997/98)**



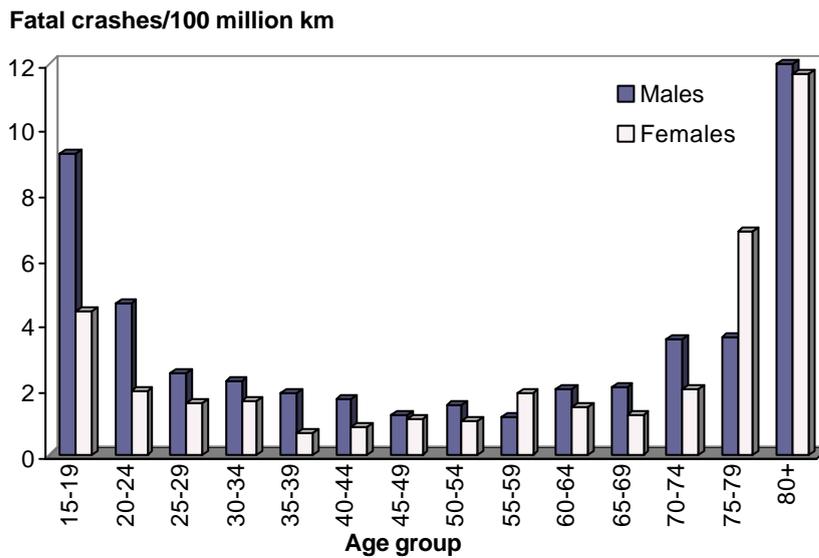
**Fig TR6: Drivers involved in fatal crashes  
(cars, vans and utes, annual average 1997/98)**



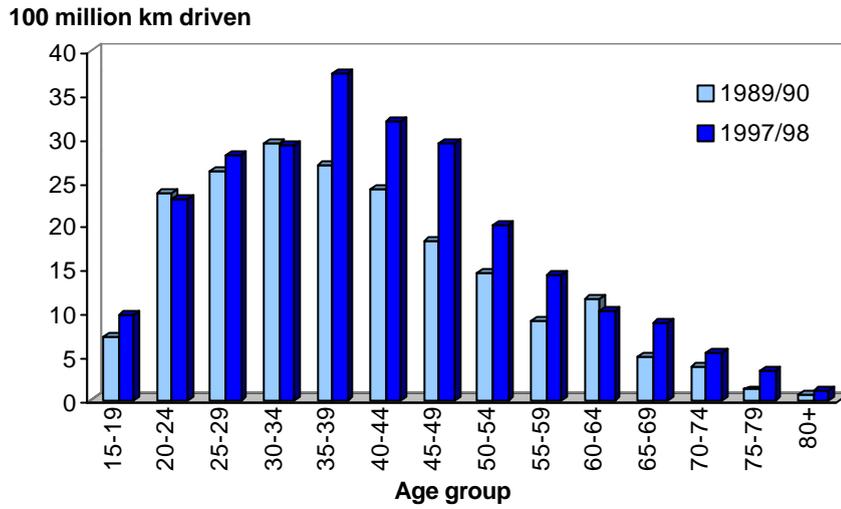
**Fig TR7: Drivers involved in reported fatal and injury crashes per 100 million km driven (cars, vans and utes)**



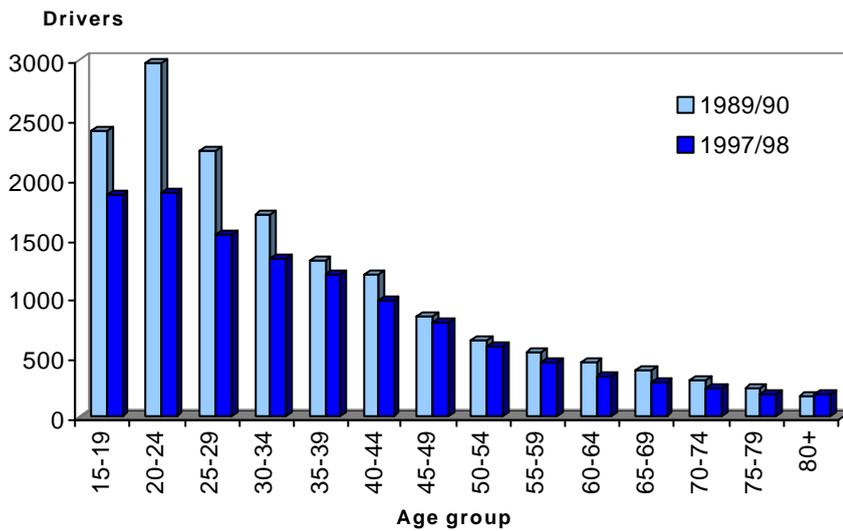
**Fig TR8: Drivers involved in fatal crashes per 100 million km driven (cars, vans and utes)**



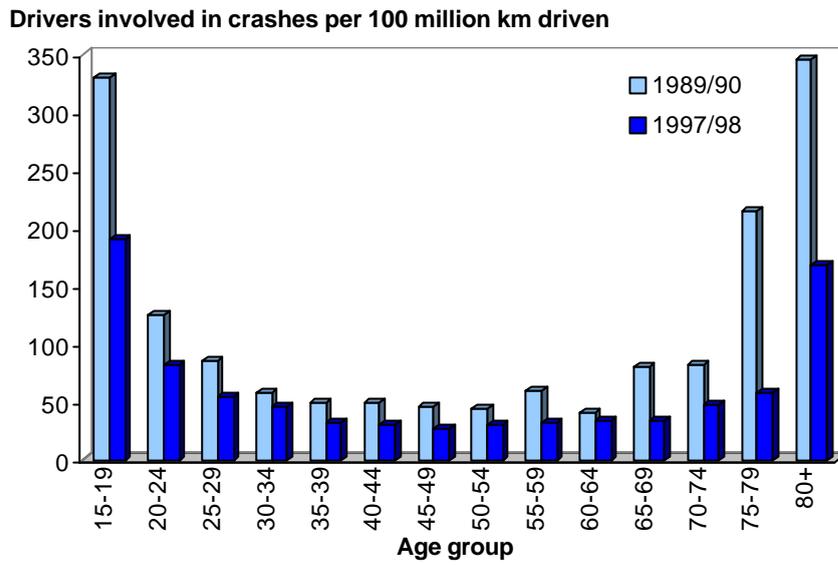
**Fig TR9: Total distance driven annually in cars, vans and utes  
National estimates, 1989/90 vs 1997/98**



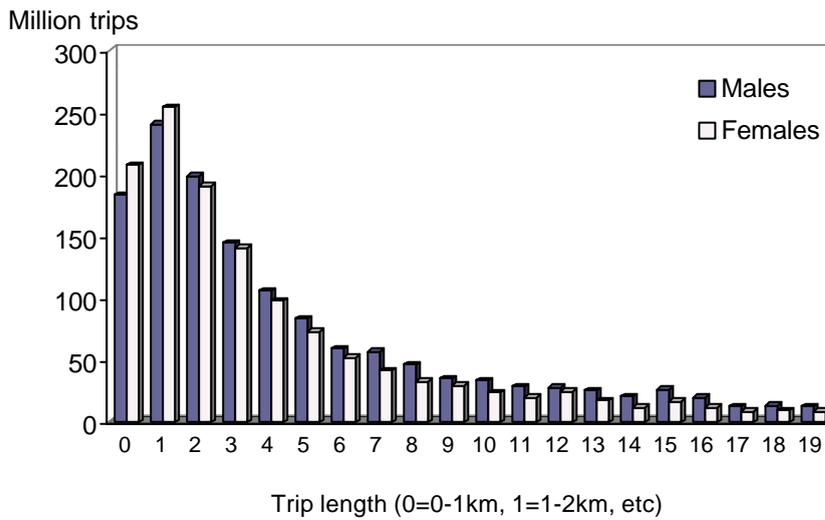
**Fig TR10: Drivers involved in reported fatal and injury crashes  
(cars, vans and utes, annual average 1989/90 vs 1997/98)**



**Fig TR11: Drivers involved in reported fatal and injury crashes per 100 million km driven, 1989/90 vs 1997/98**



**Fig TR12: Number of trips by length of trip (Drivers of cars, vans and utes)**



Note: 11.7% of trips by males and 7.0% of trips by females were over 20 km in length.

## Motorcycle riders

**Table TR12: Motorcycle riders: trips and distance ridden by age group**

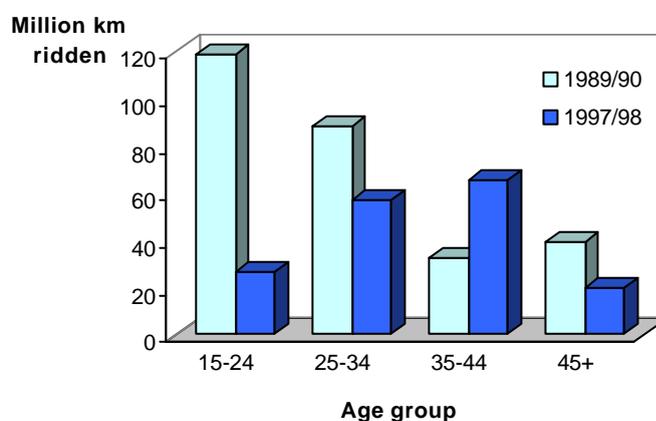
Age group	Trips in survey		National annual estimates					
			Million trips		Million km		km per trip	
	1989/90	1997/98	1989/90	1997/98	1989/90	1997/98	1989/90	1997/98
15-24	209	127	14.9	5.3	118.5	26.3	8.0	4.9
25-34	164	193	13.0	7.8	88.1	56.7	6.8	7.3
35-44	82	123	5.7	9.6	32.7	65.4	5.7	6.8
45+	77	164	5.5	4.3	39.0	20.0	7.0	4.6
Total	549	615	40.6	27.2	281.1	176.9	6.9	6.5

Note: Total includes trips by riders of unknown age.

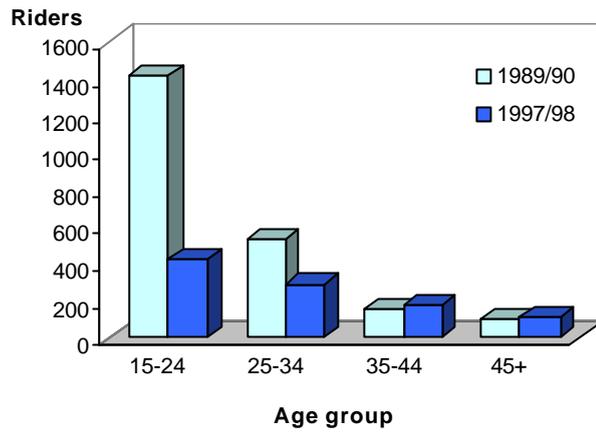
**Table TR13: Percentage of trips and distance ridden by male riders**

	1989/90	1997/98
% trips	81%	86%
% distance	90%	81%

**Fig TR13: Distance ridden by motorcycle riders (national annual estimates, million km)**



**Fig TR14: Motorcycle riders involved in reported fatal & injury crashes (annual average 1989/90 vs 1997/98)**



**Fig TR15: Motorcycle riders involved in crashes per 100 million km ridden**

