

Road Transport and Road Traffic Accident Statistics **Year 1998**

Vehicles registered as at December 1998 (Island of Mauritius)

As at December 1998, the fleet of vehicles, as shown by the data on registration of vehicles at the National Transport Authority, stood at nearly 222,300. This represents an increase of 11,400 or 5.4% over 1997.

Table 1.2 of the composition of the fleet by type of vehicles shows that about 49% or 109,100 were motorcycles and autocycles, 36% or 80,600 were cars and dual purpose vehicles and the remaining 15% comprised of vans (14,500), lorries (9,750), buses (2,370) and other vehicles (6,000).

2. Net addition during 1998 (Table 1.1)

Between January and December 1998, some 15,600 vehicles were registered, consisting of 10,400 new, 2,200 imported second-hand and 3,000 re-registered. However, during the same period about 4,200 vehicles were put off the road, which brought the net additions to the fleet to 11,400.

3. Vehicles used for the transport of passengers

3.1 Cars and dual purpose vehicles

The fleet of cars and dual purpose vehicles (dpv's) increased by 5,200 or 6.8% to reach 80,600 in 1998. During the year, some 5,600 cars and dual purpose vehicles were registered, around 1,100 were re-registered and 1,500 were put off the road.

Of the 5,600 registered, 4,000 were new and 1,600 imported second-hand vehicles. Comparative figures for 1997 are 3,900 new and 2,100 imported second-hand vehicles.(Table 1.1)

Table 1.3 on the age composition of cars and dual purpose vehicles shows that 36% of the fleet were under 5 years, 27% between 5 and 10 and the remaining 37% were above 10 years.

3.2 Buses

Of the total 2,367 buses, 1,771 were 'public' buses, that is, were operating with a Road Service License. The age distribution of the fleet of public buses is given at Table 1.3. 32% of the buses were under 5 years, 37% between 5 and 10 and 31%, 10 years and over. (Table 1.4)

4. Road accidents (Table 2.1)

During 1998, 18,055 road accidents were reported at the police stations which compared to 15,954 in 1997 showed an increase of 13.2 %.

Consequently, the rate of accidents per 100,000 population went up from 1,434 to 1,605 and the rate per 1,000 registered motor vehicles increased from 78 to 83.

Analysis of accidents by degree of injury shows that the majority, 15,117 or 84%, were classified as " non-injury ". Of the remaining, 152 were fatal , 229 were "serious injury " and 2,557 "slight injury ". With the exception of "slight injury" cases which remained at the previous level, all other types increased between 15% and 24%.

5. Motor vehicles involved in accidents (Table 2.3)

There were 32,568 motor vehicles involved in the road accidents representing an increase of 4,007 or 14% over 1997. Three types of vehicles, namely, private cars, motor/autocycles and vans together accounted for about 75% of the vehicles involved and respectively, they represented 46.1%, 12.9% and 16.7%.

6. Casualties (Table 2.4)

The number of casualties reported (3,828) showed a slight increase of around 2% over the level of the previous year (3,755). Out of these 3,828 casualties, 162 were fatal, 281 involved serious injuries and the remaining 3,385, only slight injuries. Because of the higher number of fatal cases in 1998 (162 against 146 in 1997) the fatality rate per 100,000 population rose from 13.1 to 14.4.

Pedestrians and riders of motor/autocycles each accounted for about 29% of casualties followed by passengers, 23% and drivers, 10%.

7. Hit and run cases (Table 2.5)

In 1998, 247 "hit and run" cases were registered of which 212 involved vehicles only and the remaining 35, vehicles against pedestrians.

**Central Statistical Office
Ministry of Economic Development, Productivity and Regional Development
Port Louis**

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Definitions and General Notes

A. Vehicle Statistics:

1. Data refer to all vehicles registered at the National Transport Authority. Pedal cycles are therefore excluded.
2. The classification of vehicles used in this report, follows the definition given in Section 4 of the Road Traffic Act of 1962.
3. **Vehicles include:**
 - (a) **motor vehicles**, that is, power-driven vehicles normally used for carrying persons or goods by road or for drawing vehicles used for carrying persons or goods. Examples are car, dual purpose vehicle, heavy motor car, motor cycle, lorry, van, bus, tractor, etc.
 - and (b) **non-motorised vehicles**, for example trailer.
4. Definition of some types of vehicles according to the Road Traffic Act 1962.
 - (a) **Motor cycle**

A motor cycle is a mechanically propelled vehicle, other than an auticycle or a vehicle classified as an invalid carriage, with not more than four wheels and whose unladen weight does not exceed 400 kilograms.
 - (b) **Auticycle**

An auticycle is a two wheeled motor vehicle, with or without pedals, whose engine capacity does not exceed 50 cubic centimetres.
 - (c) **Heavy motor car**

A heavy motor car is a vehicle of the bus type designed to carry passengers but not for hire or reward.
 - (d) **Dual purpose vehicle**

A dual purpose vehicle is essentially a car but it is so designed to be capable of carrying a certain load of goods.

B. Road Traffic Accident Statistics:

1. **Accidents** refer to all accidents as reported at police stations.
2. **Casualties** refer to the total number of fatalities and persons injured as a result of road accident.
3. **Fatality:** Death occurring within seven days as a result of the accident.
4. **Seriously injured:** Fracture, concussion, internal crushing, severe cut and laceration, severe general shock requiring medical treatment.
5. **Slightly injured:** Secondary injuries such as sprain, bruises and cuts not judged to be severe.

Table 1.1 - Registration of Vehicles in 1998

| Type of vehicle | No. of Vehicles at 31.12.97 | Imported Vehicles | | Re - Registered Vehicles | Vehicles off the Road ¹ | No. of Vehicles at 31.12.98 | Net Addition in 1998 |
|-----------------------------|-----------------------------|-------------------|--------------|--------------------------|------------------------------------|-----------------------------|----------------------|
| | | New | Second-hand | | | | |
| Car | 48,390 | 2,129 | 1,010 | 673 | 1,151 | 51,051 | +(2,661) |
| Dual Purpose Vehicle | 27,050 | 1,846 | 578 | 393 | 340 | 29,527 | +(2,477) |
| Motor Cycle | 22,839 | 851 | 18 | 434 | 565 | 23,577 | +(738) |
| Auto Cycle | 82,567 | 3,227 | 20 | 1,143 | 1,391 | 85,566 | +(2,999) |
| Lorry and Truck | 9,356 | 271 | 196 | 144 | 217 | 9,750 | +(394) |
| Van | 12,469 | 1,778 | 348 | 164 | 251 | 14,508 | +(2,039) |
| Bus | 2,359 | 111 | -- | 2 | 105 | 2,367 | +(8) |
| Other | 5,892 | 166 | 38 | 72 | 170 | 5,998 | +(106) |
| TOTAL | 210,922 | 10,379 | 2,208 | 3,025 | 4,190 | 222,344 | +(11,422) |

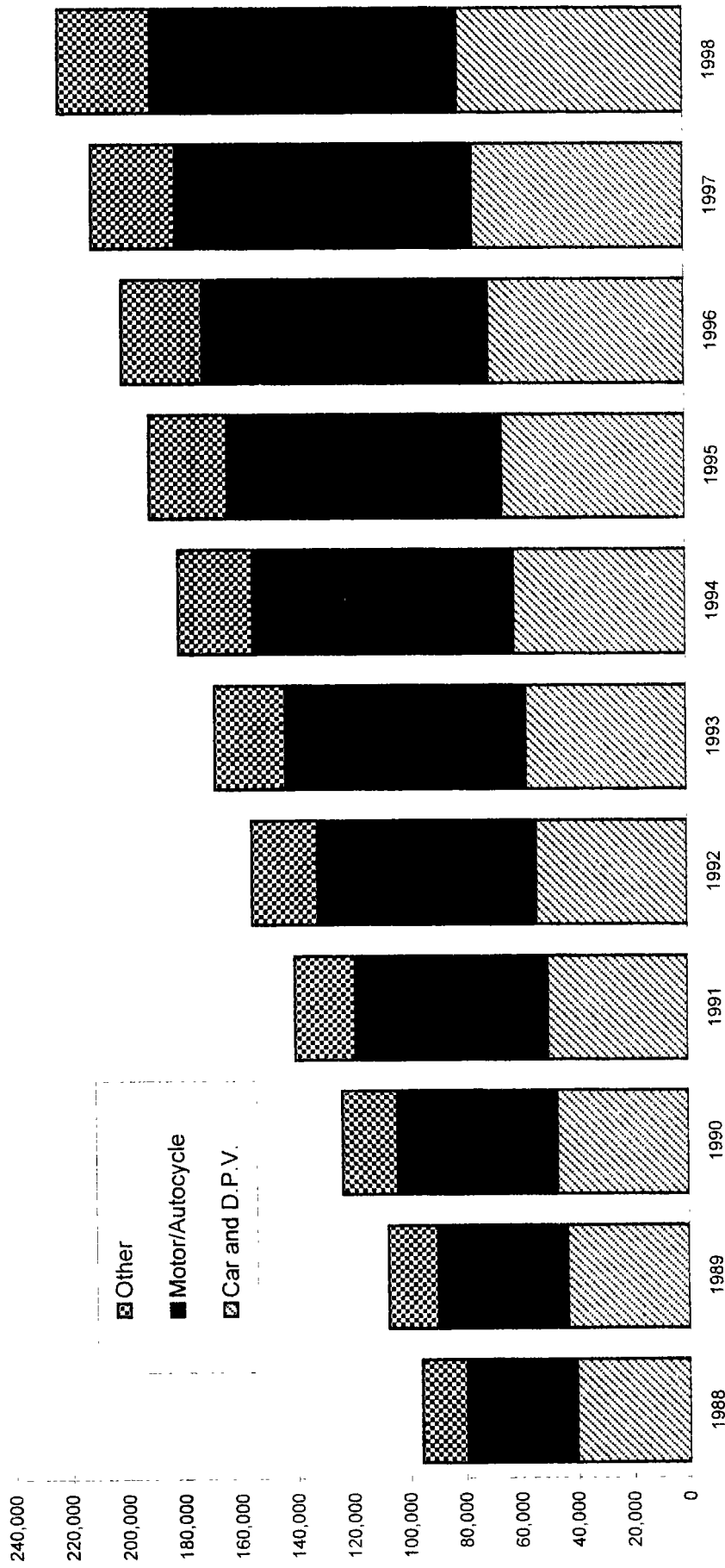
¹ Unlicensed either temporarily or permanently

Table 1.2 - Vehicles¹ registered , 1988 - 1998

| Type of vehicle | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Car (of which Taxi Car) | 30,283 (3,423) | 31,919 (3,464) | 33,916 (3,715) | 35,673 (3,965) | 37,696 (4,014) | 39,511 (4,050) | 41,355 (4,311) | 43,288 (4,439) | 45,563 (4,673) | 48,390 (4,721) | 51,051 (4,761) |
| Dual Purpose Vehicle | 10,283 | 11,460 | 12,877 | 14,343 | 16,246 | 17,882 | 20,023 | 22,086 | 24,382 | 27,050 | 29,527 |
| Heavy Motor Car | 517 | 624 | 695 | 766 | 799 | 826 | 848 | 898 | 922 | 934 | 945 |
| Motor Cycle | 9,912 | 10,560 | 11,937 | 14,740 | 16,880 | 18,829 | 20,461 | 21,492 | 22,230 | 22,839 | 23,577 |
| Auto Cycle | 29,181 | 35,844 | 45,157 | 53,834 | 60,859 | 66,711 | 72,509 | 76,317 | 79,524 | 82,567 | 85,566 |
| Lorry & Truck | 5,534 | 5,906 | 6,564 | 7,226 | 7,776 | 8,166 | 8,559 | 8,815 | 9,058 | 9,356 | 9,750 |
| Van | 4,788 | 5,600 | 6,637 | 7,602 | 8,749 | 9,663 | 10,292 | 10,851 | 11,434 | 12,469 | 14,508 |
| Bus | 1,771 | 1,858 | 1,929 | 2,021 | 2,097 | 2,217 | 2,276 | 2,362 | 2,348 | 2,359 | 2,367 |
| Tractor & Dumper | 2,013 | 2,078 | 2,156 | 2,274 | 2,356 | 2,413 | 2,478 | 2,546 | 2,580 | 2,615 | 2,627 |
| Prime Mover | 164 | 182 | 185 | 197 | 212 | 228 | 249 | 256 | 262 | 278 | 297 |
| Trailer | 1,083 | 1,151 | 1,155 | 1,231 | 1,288 | 1,333 | 1,428 | 1,534 | 1,597 | 1,640 | 1,703 |
| Road Roller | 101 | 98 | 94 | 96 | 100 | 106 | 106 | 107 | 106 | 108 | 105 |
| Other | 210 | 233 | 243 | 251 | 262 | 273 | 300 | 315 | 314 | 317 | 321 |
| TOTAL | 95,840 | 107,513 | 123,545 | 140,254 | 155,320 | 168,158 | 180,884 | 190,867 | 200,320 | 210,922 | 222,344 |
| <i>Index</i> | 100 | 112 | 129 | 146 | 162 | 175 | 189 | 199 | 209 | 220 | 232 |

¹ Excluding pedal cycles , but including government vehicles

Fig. 1.1 - Stock of registered vehicles, 1988 - 1998



| Type of vehicle | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|------------------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Car and Dual Purpose Vehicle | 40,566 | 43,379 | 46,793 | 50,016 | 53,942 | 57,393 | 61,378 | 65,374 | 69,945 | 75,440 | 80,578 |
| Motor cycle and autocycle | 39,093 | 46,404 | 57,094 | 68,574 | 77,739 | 85,540 | 92,970 | 97,809 | 101,754 | 105,406 | 109,143 |
| Other | 16,181 | 17,730 | 19,658 | 21,664 | 23,639 | 25,225 | 26,536 | 27,684 | 28,621 | 30,076 | 32,623 |
| TOTAL | 95,840 | 107,513 | 123,545 | 140,254 | 155,320 | 168,158 | 180,884 | 190,867 | 200,320 | 210,922 | 222,344 |

Table 1.3 - Age composition of cars and dual purpose vehicles , 1997 - 1998

| Age group (Years) | as at 31st December 1997 | | as at 31st December 1998 | |
|----------------------|--------------------------|------------|--------------------------|------------|
| | Number | % | Number | % |
| < 5 | 26,915 | 36 | 28,889 | 36 |
| 5 < 10 | 20,800 | 28 | 21,711 | 27 |
| 10 < 15 | 6,152 | 7 | 8,065 | 10 |
| ≥ 15 | 21,573 | 29 | 21,913 | 27 |
| TOTAL | 75,440 | 100 | 80,578 | 100 |

**Fig. 1.2 - Age composition of cars and dual purpose vehicles
(as at 31st December)**

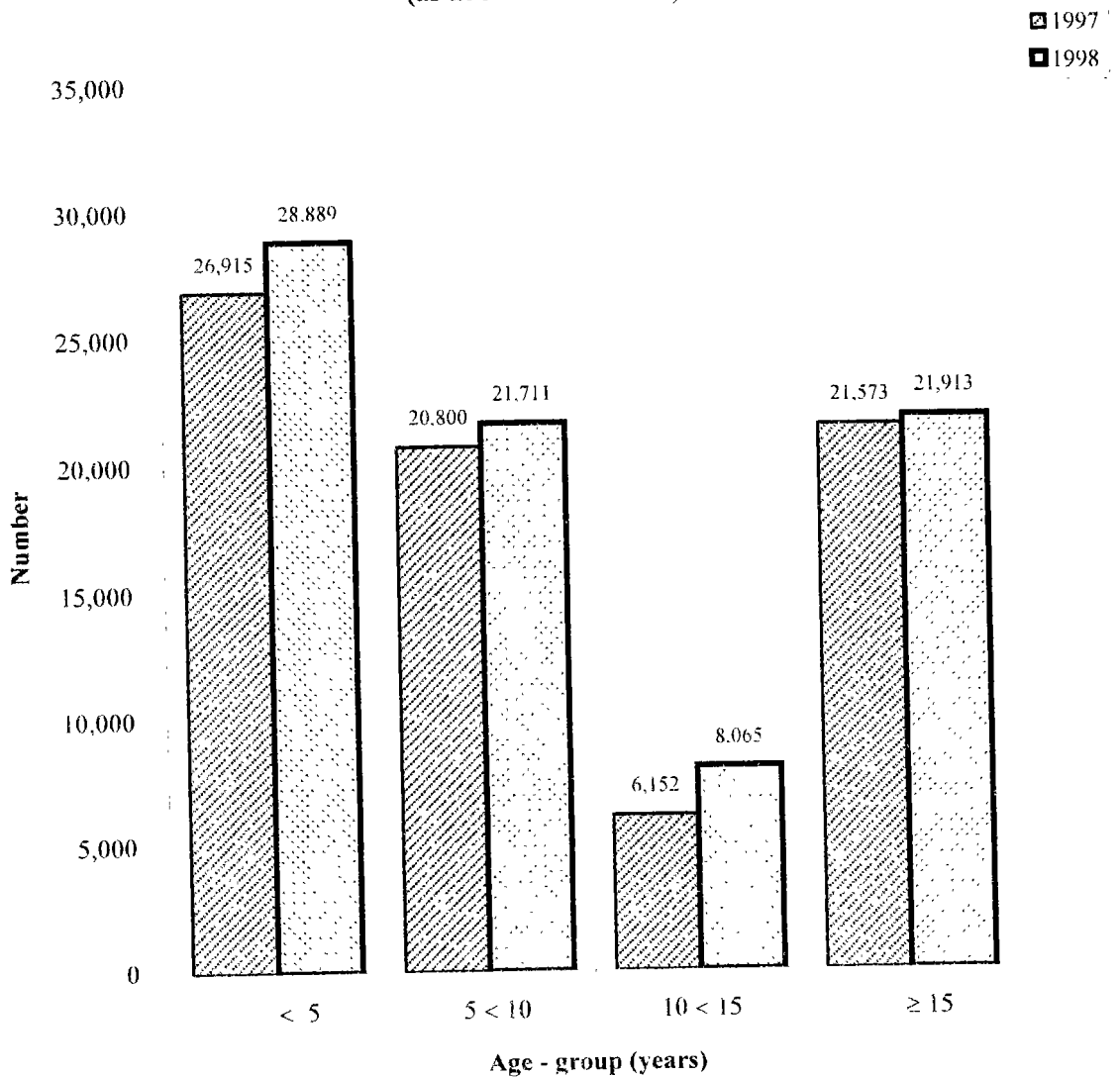


Table 1.4 - Age composition of operational bus fleet ¹, 1997 - 1998

| Age group (Years) | as at 31st December 1997 | | as at 31st December 1998 | |
|----------------------|--------------------------|------------|--------------------------|------------|
| | Number | % | Number | % |
| < 5 | 702 | 40 | 568 | 32 |
| 5 < 10 | 702 | 40 | 652 | 37 |
| 10 < 15 | 255 | 15 | 466 | 26 |
| 15 < 18 | 96 | 5 | 85 | 5 |
| TOTAL | 1,755 | 100 | 1,771 | 100 |

¹ Refers only to buses with a Road Service Licence, i.e, buses which operate on proclaimed routes and charge individual fares

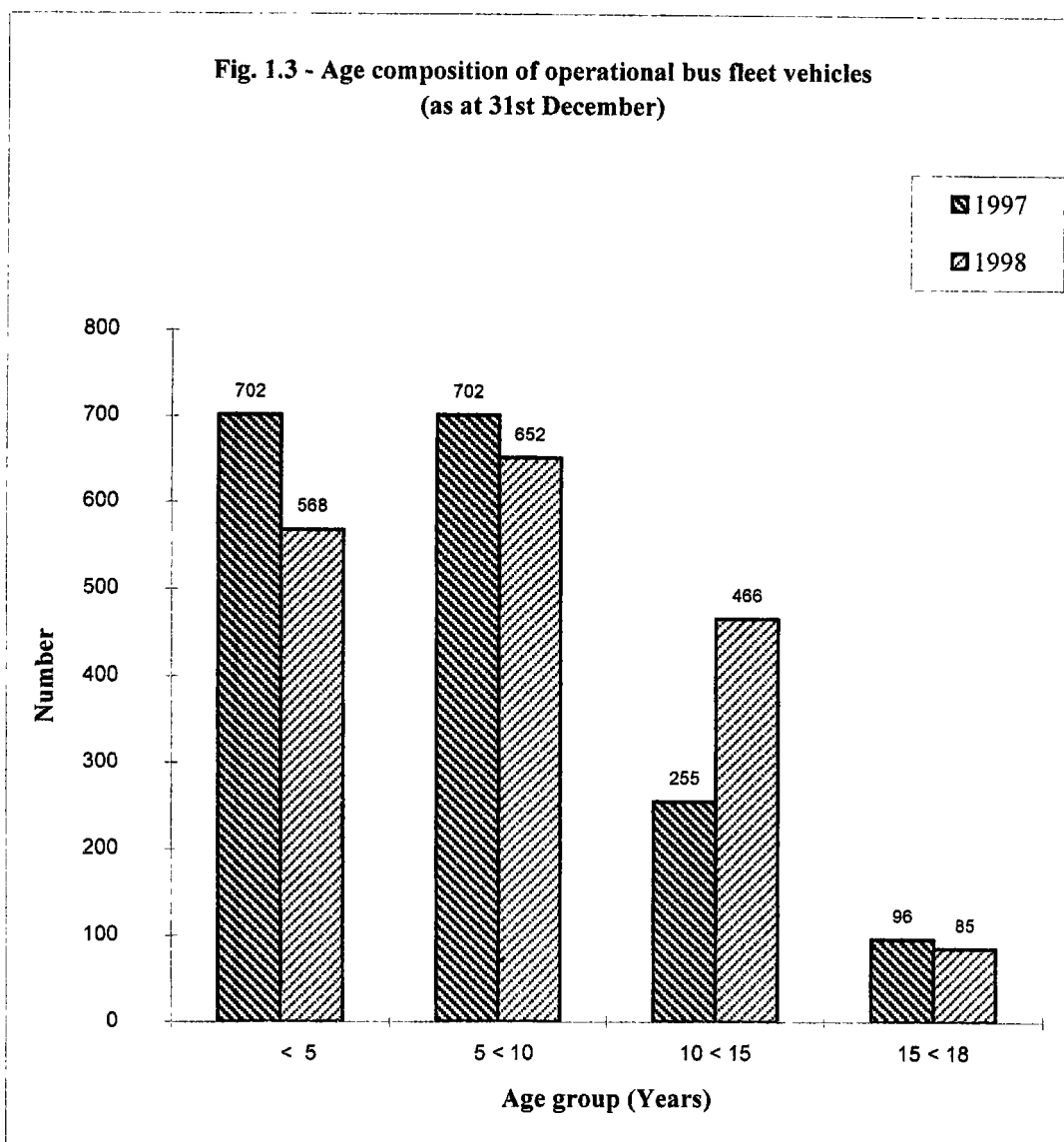


Table 2.1 - Comparison of Road Traffic Accidents¹, 1997-1998

| | 1997 | 1998 | Change | |
|--|-------------|-------------|------------------|------------------|
| | | | Number | % |
| 1. Road Traffic Accidents | | | | |
| Number of accidents | 15,954 | 18,055 | + 2,101 | + 13.2 |
| Fatal accident | 132 | 152 | + 20 | + 15.2 |
| Serious injury accident | 184 | 229 | + 45 | + 24.5 |
| Slight injury accident | 2,563 | 2,557 | - 6 | - 0.2 |
| Non injury accident | 13,075 | 15,117 | + 2,042 | + 15.6 |
| Rate per 100,000 population | 1,434 | 1,605 | N.A ² | N.A ² |
| Rate per 1,000 registered motor - vehicles | 78 | 83 | N.A ² | N.A ² |
| 2. Motor- vehicles involved | | | | |
| Number of vehicles involved | 28,561 | 32,568 | + 4,007 | + 14.0 |
| Rate per 1,000 registered motor - vehicles | 139 | 150 | N.A ² | N.A ² |
| 3. Casualties | | | | |
| Total number of casualties | 3,755 | 3,828 | + 73 | + 1.9 |
| Fatal | 146 | 162 | + 16 | + 11.0 |
| Seriously injured | 261 | 281 | + 20 | + 7.7 |
| Slightly injured | 3,348 | 3,385 | + 37 | + 1.1 |

¹ Exclude number of accidents involving bicycles only

² N.A : Not applicable

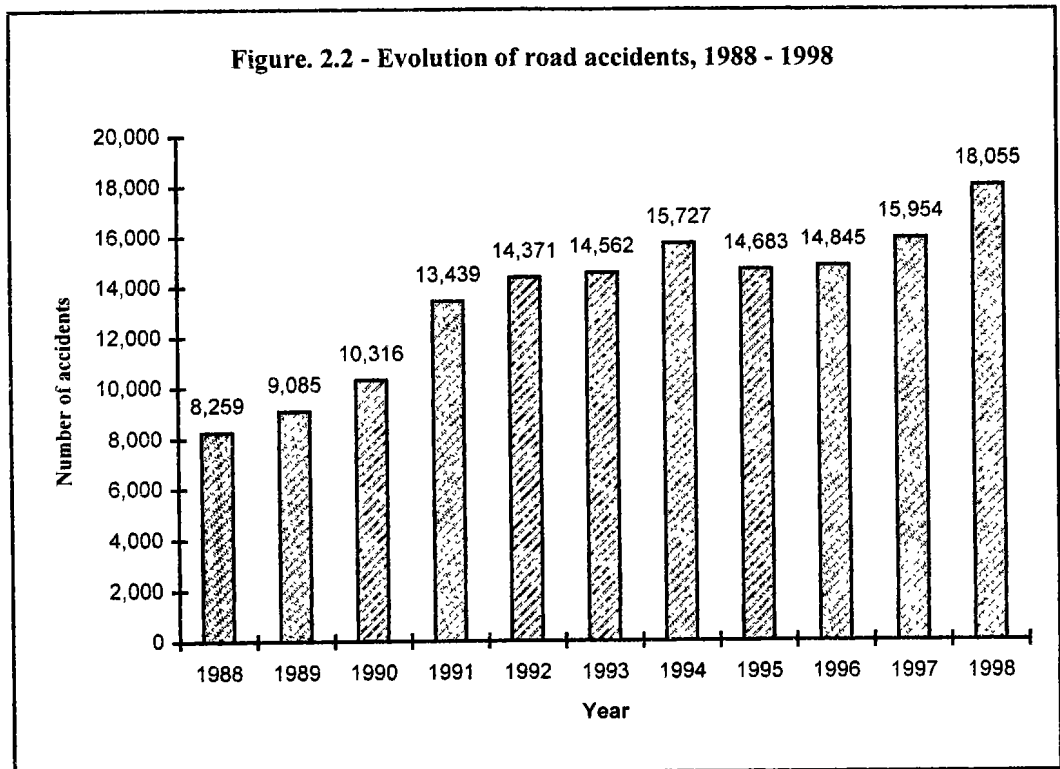
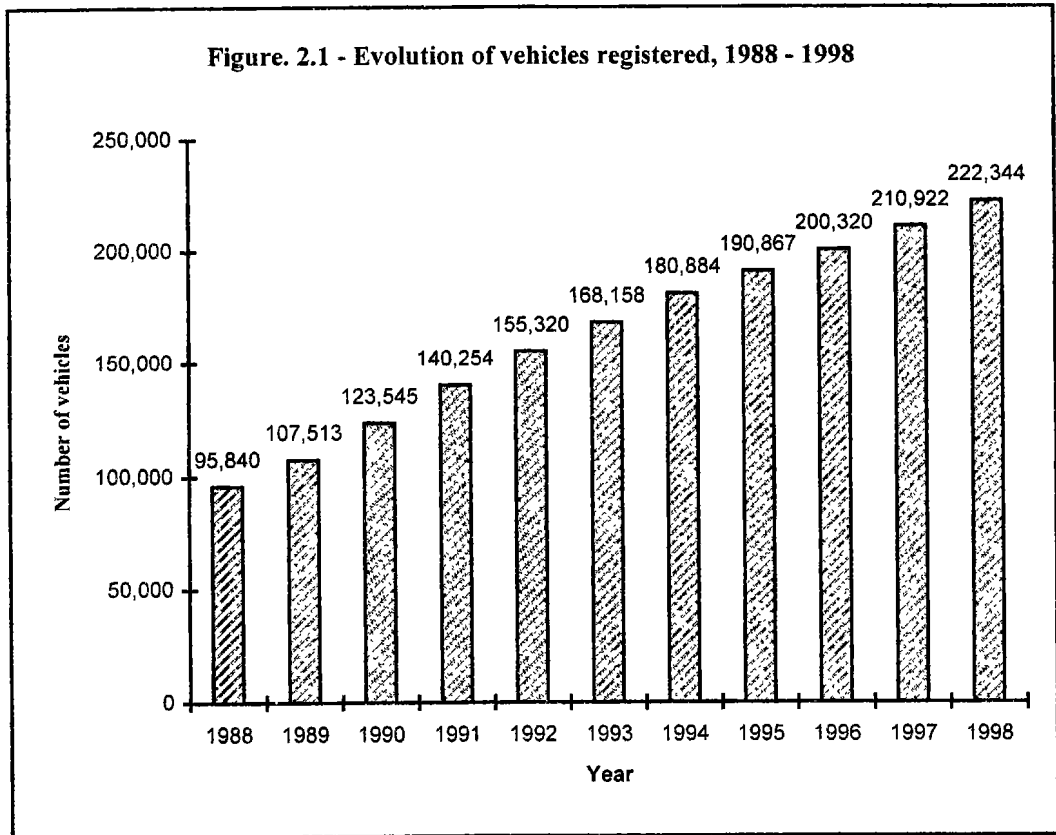


Table 2.2 - Road traffic accidents ¹ and casualties , 1988 - 1998

| | <u>1988</u> | <u>1989</u> | <u>1990</u> | <u>1991</u> | <u>1992</u> | <u>1993</u> | <u>1994</u> | <u>1995</u> | <u>1996</u> | <u>1997</u> | <u>1998</u> |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1. Road traffic accidents: | | | | | | | | | | | |
| Number | 8,259 | 9,085 | 10,316 | 13,439 | 14,371 | 14,562 | 15,727 | 14,683 | 14,845 | 15,954 | 18,055 |
| Rate per 100,000 Population | 812 | 893 | 1,007 | 1,297 | 1,369 | 1,378 | 1,459 | 1,350 | 1,351 | 1,434 | 1,605 |
| Rate per 1,000 registered motor vehicles | 91 | 89 | 90 | 102 | 97 | 91 | 91 | 78 | 76 | 78 | 83 |
| 2. Motor vehicles involved : | | | | | | | | | | | |
| Number | 14,153 | 15,489 | 17,562 | 22,835 | 24,549 | 25,240 | 27,203 | 25,584 | 26,270 | 28,561 | 32,568 |
| Rate per 1,000 registered motor vehicles | 156 | 152 | 153 | 173 | 166 | 156 | 156 | 137 | 135 | 139 | 150 |
| 3. Casualties : | | | | | | | | | | | |
| Total number of casualties | 3,004 | 3,141 | 3,575 | 4,025 | 4,395 | 4,160 | 3,947 | 3,586 | 3,774 | 3,755 | 3,828 |
| Fatal | 122 | 130 | 144 | 168 | 119 | 157 | 154 | 173 | 153 | 146 | 162 |
| Seriously injured | 282 | 250 | 315 | 296 | 378 | 322 | 330 | 280 | 238 | 261 | 281 |
| Slightly injured | 2,600 | 2,761 | 3,116 | 3,561 | 3,828 | 3,681 | 3,463 | 3,133 | 3,383 | 3,348 | 3,385 |
| 4. Fatality : | | | | | | | | | | | |
| Rate per 100,000 population | 12.0 | 12.6 | 13.9 | 16.2 | 11.3 | 14.8 | 14.3 | 15.9 | 13.9 | 13.1 | 14.4 |
| Rate per 1,000 registered motor vehicle | 1.3 | 1.3 | 1.3 | 1.3 | 0.8 | 1.0 | 0.9 | 0.9 | 0.8 | 0.7 | 0.7 |
| Index ² | 4.1 | 4.1 | 4.0 | 4.2 | 2.7 | 3.8 | 3.9 | 4.8 | 4.1 | 3.9 | 4.2 |

¹ Exclude number of accidents involving bicycles only

² Fatality index is the ratio of the number of fatalities to the number of casualties expressed as a percentage

Table 2.3 - Vehicles ¹ involved by type, 1997 - 1998

| Type of vehicle | 1997 | | | 1998 | | |
|-----------------------------|---------------|---------------|--------------|---------------|---------------|--------------|
| | Jan - Jun | Jul. - Dec | Year | Jan - Jun | Jul - Dec | Year |
| | Number | Number | % | Number | Number | % |
| Private car | 6,164 | 6,960 | 45.2 | 6,975 | 8,227 | 46.1 |
| Taxi car | 1,187 | 1,354 | 8.8 | 1,353 | 1,588 | 8.9 |
| Bus | 1,010 | 1,158 | 7.5 | 1,123 | 1,175 | 7.0 |
| Lorry | 739 | 1,054 | 6.2 | 899 | 1,176 | 6.3 |
| Van | 2,131 | 2,450 | 15.8 | 2,545 | 2,955 | 16.7 |
| Motor/ Auto cycle | 1,936 | 2,165 | 14.1 | 2,065 | 2,190 | 12.9 |
| Other motor vehicle | 107 | 146 | 0.9 | 124 | 173 | 0.9 |
| Total motor vehicles | 13,274 | 15,287 | 98.5 | 15,084 | 17,484 | 98.7 |
| Pedal cycle | 212 | 198 | 1.4 | 188 | 209 | 1.2 |
| Other non motor vehicle | 16 | 17 | 0.1 | 8 | 28 | 0.1 |
| All vehicles | 13,502 | 15,502 | 100.0 | 15,280 | 17,721 | 100.0 |

¹ Only three main vehicles have been considered in accidents involving more than three vehicles

Tab 2.4 - Casualties by class of road users , 1997 - 1998

| Class of road users | 1997 | | | | 1998 | | | |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Jan- Jun | Jul - Dec | Year | | Jan- Jun | Jul - Dec | Year | |
| | Number | Number | Number | % | Number | Number | Number | % |
| Pedestrian | 481 | 573 | 1,054 | 28.1 | 559 | 563 | 1,122 | 29.3 |
| Passenger | 380 | 441 | 821 | 21.9 | 391 | 492 | 883 | 23.1 |
| Driver | 146 | 227 | 373 | 9.9 | 179 | 204 | 383 | 10.0 |
| Rider(Auto/ Motor cycle) | 558 | 626 | 1,184 | 31.5 | 544 | 579 | 1,123 | 29.3 |
| Pedal cyclist | 164 | 159 | 323 | 8.6 | 155 | 162 | 317 | 8.3 |
| All road users | 1,729 | 2,026 | 3,755 | 100.0 | 1,828 | 2,000 | 3,828 | 100.0 |

Table 2.5 - Total number of accidents involving hit and run cases , 1997 -1988

| Period | 1997 | | | | 1998 | | | |
|-------------------------|------------|------------|------------|--------------|------------|------------|------------|--------------|
| | Jan-Jun | Jul - Dec | Year | | Jan-Jun | Jul - Dec | Year | |
| | Number | Number | Number | % | Number | Number | Number | % |
| Vehicles v/s pedestrian | 32 | 37 | 69 | 20.7 | 16 | 19 | 35 | 14.2 |
| Vehicles v/s vehicles | 114 | 151 | 265 | 79.3 | 101 | 111 | 212 | 85.8 |
| Total | 146 | 188 | 334 | 100.0 | 117 | 130 | 247 | 100.0 |

Fig. 2.3 - Vehicles involved in accidents by type, 1997 - 1998

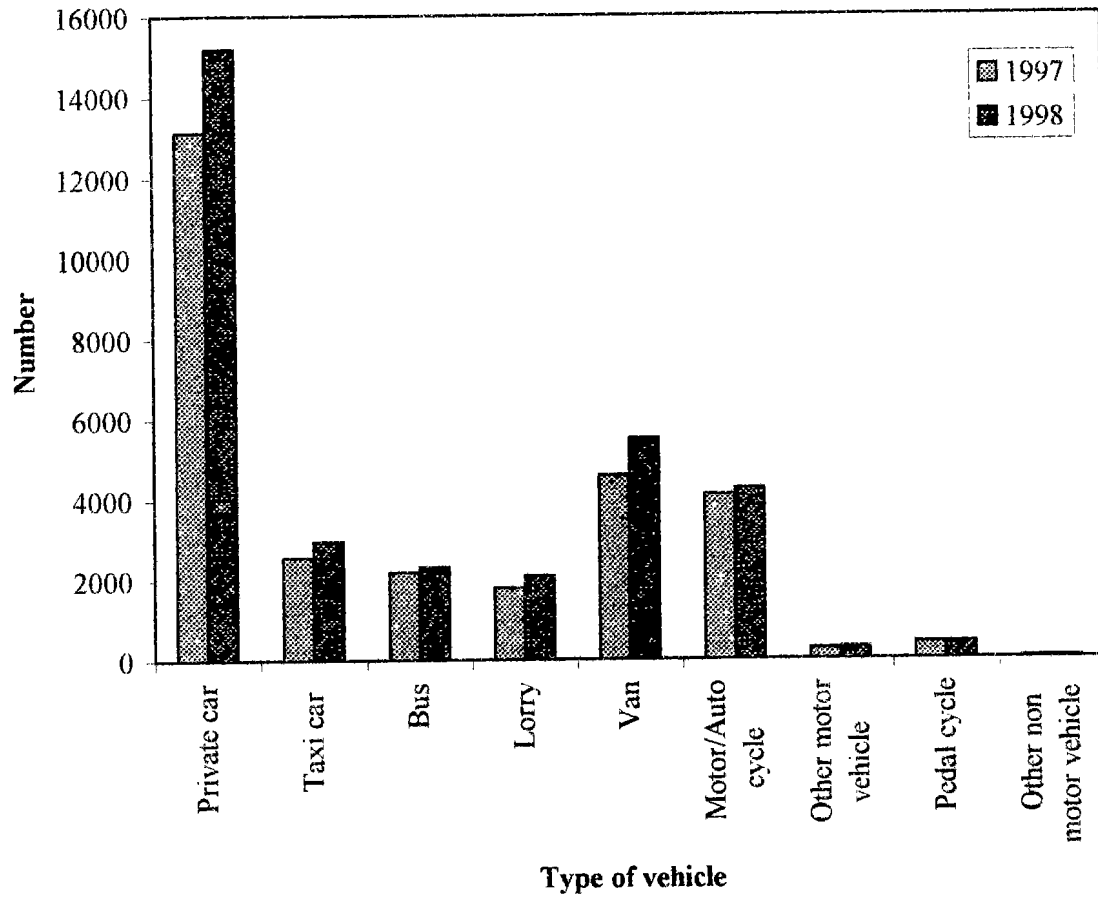


Fig. 2.4 - Casualties by class of road users, 1998

