

## **Road Transport and Road Traffic Accident statistics (Island of Mauritius)**

**Year 2003**

### **1. Vehicles registered as at December 2003**

The number of vehicles registered at the National Transport Authority (N.T.A) at end of December 2003 was 276,371. This represents a net increase of 10,530 vehicles (4.0%) over the December 2002 figure of 265,841.

Between January and December 2003, the fleet was strengthened with the registration of 14,929 vehicles, of which 8,572 (57.4%) were new, 5,181 (34.7%) were imported second-hand and the other 1,176 (7.9%) consisted of re-registered vehicles, previously put off the road. During the same period, 4,399 vehicles were put off the road, resulting in a net addition of 10,530 vehicles to the fleet. (Table 1.1)

### **2. Composition of the fleet**

Table 1.2 gives the composition of the fleet by type of vehicles. At the end of December 2003, around 45.5% (125,602) of the fleet were motorized two-wheelers, 39.0% (107,907) were cars and dual purpose vehicles while the remaining 15.5% comprised vans (22,496), lorries and trucks (11,501), buses (2,460) and other vehicles (6,405).

### **3. Vehicles used for the transport of passengers**

#### **3.1 Cars and dual purpose vehicles**

At the end of 2003, the vehicle fleet consisted of 107,907 cars and dual purpose vehicles, i.e., 6.4% (6,471) higher than the 2002 figure of 101,436. This increase was the result of the registration of 8,045 such vehicles (3,379 new, 4,047 imported second – hand vehicles and 619 re-registered) partly offset by 1,574 which were put off the road.

Table 1.3 shows the age distribution of cars and dual purpose vehicles. At end of December 2003, 33.9% were under 5 years, 27.8% from 5 to 9 years and the remaining 38.3%, 10 years and above.

#### **3.2 Buses**

In December 2003, there were 2,460 registered buses of which 74.4% (1,830) were 'public' buses operating with a Road Service Licence. The age distribution of the fleet of public buses as given in Table 1.4, shows that 24.1% of the buses were under 5 years, 32.0% from 5 to 9 years and 43.9%, 10 years and over.

### **4. Road traffic accidents**

#### **4.1 Number of accidents**

During the year 2003, some 19,178 road accidents were reported at police stations against 18,022 in 2002, indicating an increase of 6.4%. Among the 19,178 accidents reported, 121 were fatal, 211 caused serious injuries to the persons involved, 1,729 resulted in slight injuries and the remaining 17,117 were non-injury accidents.

Compared to 2002, the number of fatal accidents decreased by 16.0%. Serious-injury accidents increased significantly by 30.2% while slight-injury accidents fell by 6.6%.

The accident rate per 100,000 population increased from 1,535 in 2002 to 1,616 in 2003 whilst the rate per 1,000 registered motor vehicles moved up from 69 to 72.

#### **4.2. Vehicles involved in road accidents**

Table 2.3 shows the type of vehicles involved in accidents. During the year 2003, the total number of vehicles (both motor and non-motor vehicles) involved in accidents was 35,570 compared to 33,411 in 2002. About 46.2% of them were private cars, 20.0% were vans and 10.1% motor/auto cycles .

#### **4.3. Casualties**

The number of casualties reported in 2003 was 2,698 against 2,904 in 2002, i.e, a decrease of 7.1%. Out of these 2,698 casualties, 131 were fatal, 291 were seriously injured and the remaining 2,276 slightly injured.

Compared to 2002, the number of fatalities (person killed as a result of road accidents) decreased by 17.1% from 158 to 131. The fatality rate thus decreased from 13.5 in 2002 to 11.0 in 2003 per 100,000 population and from 0.6 to 0.5 per 1,000 registered motor vehicles.

Table 2.4 shows that, in 2003, 27.1% of casualties among road users were riders of auto/motor cycle, 26.9% pedestrians and 25.7% passengers.

#### **4.4. Hit and run cases**

In 2003, some 413 " hit and run" cases were reported at police stations against 290 in 2002. Out of the 413 cases, 83.8.% (346) involved only vehicles while the remaining 16.2% (67) involved both vehicles and pedestrians. (Table 2.5).

**Central Statistics Office  
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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. The classification of vehicles used in this report, follows the definition given in Section 4 of the Road Traffic Act of 1962.
2. **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, and
  - (b) **non-motorised vehicles**, for example trailer.
3. 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 auto cycle or a vehicle classified as an invalid carriage, with not more than four wheels and whose unladen weight does not exceed 400 kilograms.
  - (b) **Autocycle**

An autocycle 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 the result of road accidents.
3. **Fatalities:** Prior to 2002, fatalities were defined as deaths occurring within 7 days as a result of road accidents. Since January 2002, fatalities are defined as deaths occurring within 30 days as a result of the accidents.
4. **Serious injuries:** Fracture, concussion, internal crushing, severe cut and laceration, severe general shock requiring medical treatment.
5. **Slight injuries:** Secondary injuries such as sprain, bruises and cuts not judged to be severe.

**Table 1.1 - Registration of vehicles <sup>1</sup> in 2003**

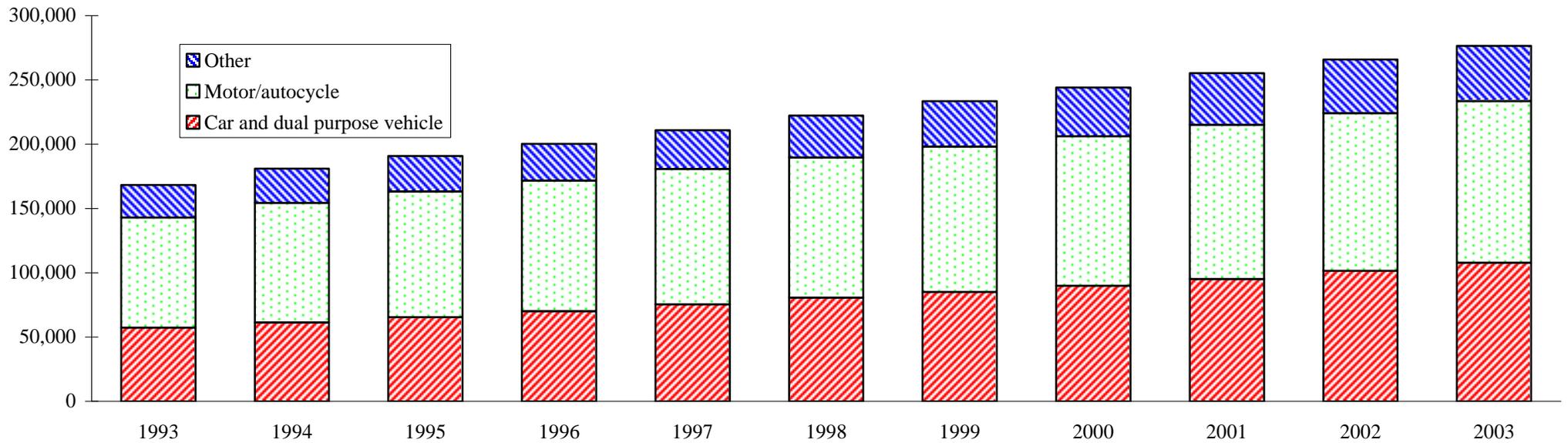
Type of vehicle	No. of vehicles at 31.12.02	New vehicles	Used imported vehicles	Re - registered vehicles <sup>2</sup>	Vehicles off the road <sup>3</sup>	No. of vehicles at 31.12.03	Net addition
<b>Car</b>	63,307	2,213	3,676	452	1,124	68,524	+ 5,217
<b>Dual purpose vehicle</b>	38,129	1,166	371	167	450	39,383	+ 1,254
<b>Motor cycle</b>	25,723	1,366	20	265	630	26,744	+ 1,021
<b>Auto cycle</b>	97,078	3,106	12	10	1,348	98,858	+ 1,780
<b>Lorry and truck</b>	11,236	211	173	113	232	11,501	+ 265
<b>Van</b>	21,750	270	692	113	329	22,496	+ 746
<b>Bus</b>	2,450	81	2	6	79	2,460	+ 10
<b>Other</b>	6,168	159	235	50	207	6,405	+ 237
<b>Total</b>	<b>265,841</b>	<b>8,572</b>	<b>5,181</b>	<b>1,176</b>	<b>4,399</b>	<b>276,371</b>	<b>+ 10,530</b>

<sup>1</sup> Excluding pedal cycles , but including government vehicles

<sup>2</sup> Refers to re-registration of vehicles previously off the road

<sup>3</sup> Unlicensed either temporarily or permanently

**Fig. 1.1 - Stock of registered vehicles, 1993 - 2003**



Type of vehicle	1990	1991	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Car and dual purpose vehicle	46,793	50,016	57,393	61,378	65,374	69,945	75,440	80,578	85,154	89,823	95,066	101,436	107,907
Motor cycle and autocycle	57,094	68,574	85,540	92,970	97,809	101,754	105,406	109,143	112,946	116,478	119,953	122,801	125,602
Other	19,658	21,664	25,225	26,536	27,684	28,621	30,076	32,623	35,315	37,717	40,130	41,604	42,862
<b>Total</b>	<b>123,545</b>	<b>140,254</b>	<b>168,158</b>	<b>180,884</b>	<b>190,867</b>	<b>200,320</b>	<b>210,922</b>	<b>222,344</b>	<b>233,415</b>	<b>244,018</b>	<b>255,149</b>	<b>265,841</b>	<b>276,371</b>

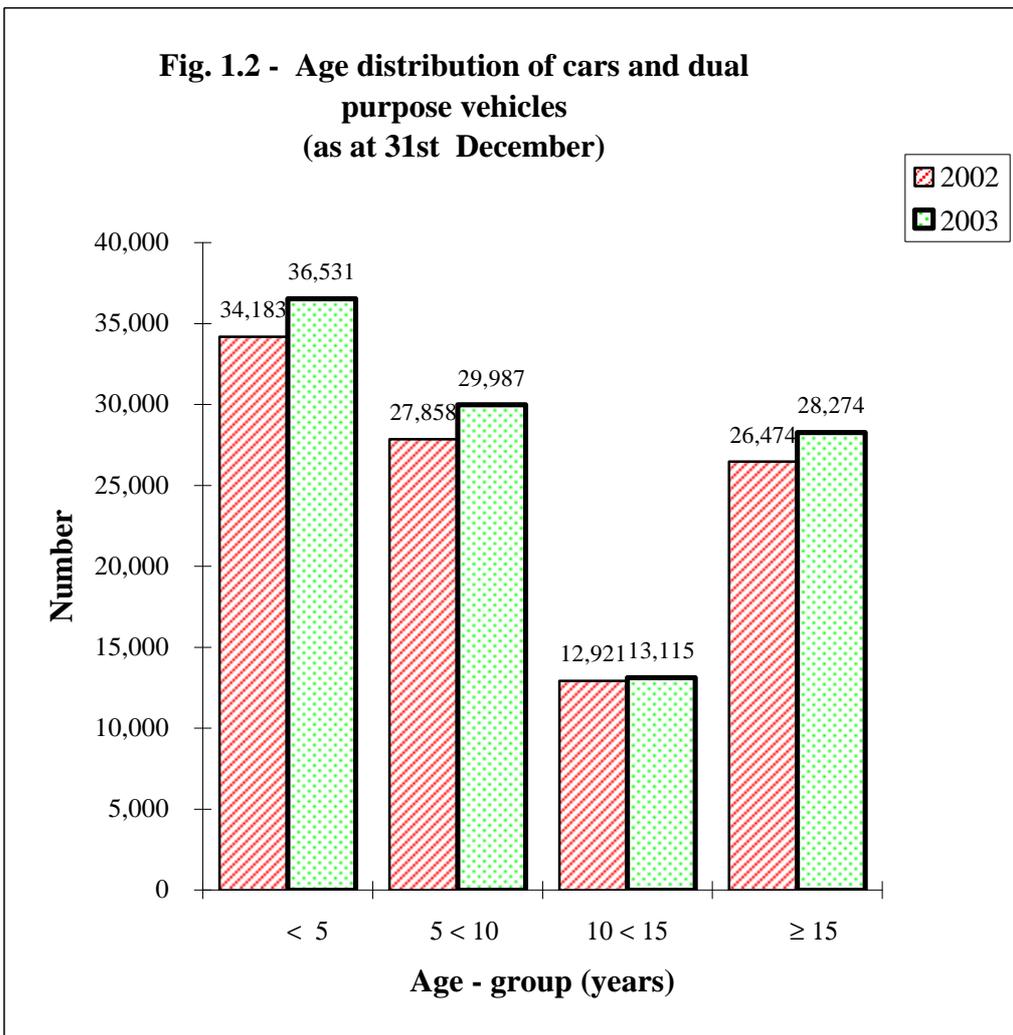
**Table 1.2 - Vehicles<sup>1</sup> registered , 1993 - 2003**

Type of vehicle	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>Car</b> ( of which taxi car )	39,511 (4,050)	41,355 (4,311)	43,288 (4,439)	45,563 (4,673)	48,390 (4,721)	51,051 (4,761)	52,892 (4,905)	54,911 (5,039)	58,082 (5,318)	63,307 (5,801)	68,524 (5,979)
<b>Dual purpose vehicle</b>	17,882	20,023	22,086	24,382	27,050	29,527	32,262	34,912	36,984	38,129	39,383
<b>Heavy motor car</b>	826	848	898	922	934	945	934	916	923	944	958
<b>Motor cycle</b>	18,829	20,461	21,492	22,230	22,839	23,577	24,125	24,523	25,104	25,723	26,744
<b>Auto cycle</b>	66,711	72,509	76,317	79,524	82,567	85,566	88,821	91,955	94,849	97,078	98,858
<b>Lorry and truck</b>	8,166	8,559	8,815	9,058	9,356	9,750	10,138	10,485	10,888	11,236	11,501
<b>Van</b>	9,663	10,292	10,851	11,434	12,469	14,508	16,814	18,807	20,694	21,750	22,496
<b>Bus</b>	2,217	2,276	2,362	2,348	2,359	2,367	2,344	2,394	2,408	2,450	2,460
<b>Tractor and dumper</b>	2,413	2,478	2,546	2,580	2,615	2,627	2,630	2,645	2,683	2,683	2,877
<b>Prime mover</b>	228	249	256	262	278	297	315	322	335	349	369
<b>Trailer</b>	1,333	1,428	1,534	1,597	1,640	1,703	1,719	1,726	1,776	1,770	1,772
<b>Road roller</b>	106	106	107	106	108	105	102	100	100	101	100
<b>Other</b>	273	300	315	314	317	321	319	322	323	321	329
<b>TOTAL</b>	<b>168,158</b>	<b>180,884</b>	<b>190,867</b>	<b>200,320</b>	<b>210,922</b>	<b>222,344</b>	<b>233,415</b>	<b>244,018</b>	<b>255,149</b>	<b>265,841</b>	<b>276,371</b>

<sup>1</sup> Excluding pedal cycles , but including government vehicles

**Table 1.3 - Age distribution of cars and dual purpose vehicles , 2002 - 2003**

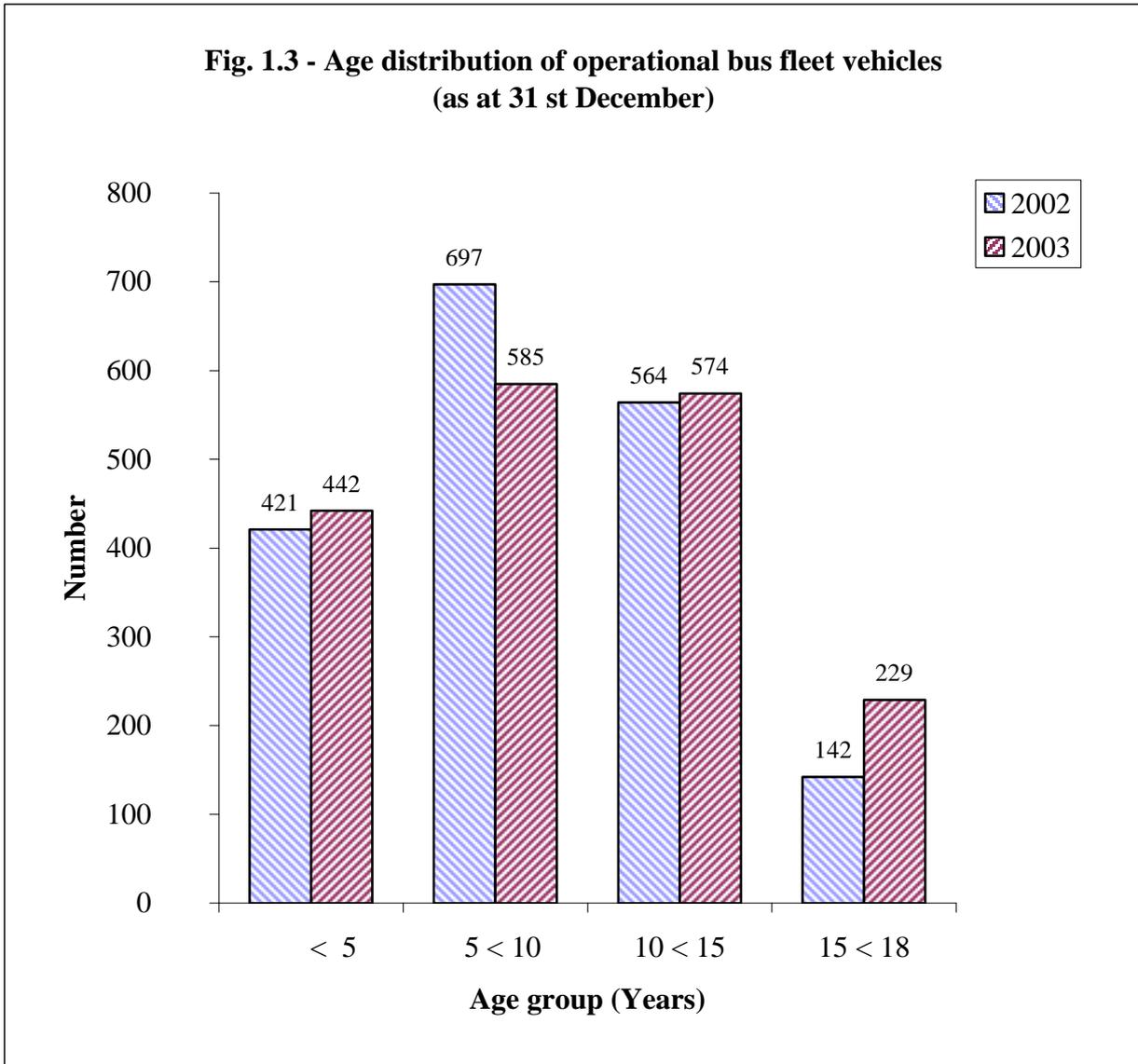
Age group (Years)	as at 31st December 2002		as at 31st December 2003	
	Number	%	Number	%
< 5	34,183	33.7	36,531	33.9
5 < 10	27,858	27.5	29,987	27.8
10 < 15	12,921	12.7	13,115	12.1
≥ 15	26,474	26.1	28,274	26.2
<b>TOTAL</b>	<b>101,436</b>	<b>100.0</b>	<b>107,907</b>	<b>100.0</b>



**Table 1.4 - Age distribution of operational bus fleet <sup>1</sup>, 2002 - 2003**

Age group (Years)	as at 31st December 2002		as at 31st December 2003	
	Number	%	Number	%
< 5	421	23.1	442	24.1
5 < 10	697	38.2	585	32.0
10 < 15	564	30.9	574	31.4
15 < 18	142	7.8	229	12.5
<b>TOTAL</b>	<b>1,824</b>	<b>100.0</b>	<b>1,830</b>	<b>100.0</b>

<sup>1</sup> Refers only to buses with a Road Service License, i.e, buses which operate on proclaimed routes and charge individual fares



**Table 2.1 - Road traffic accidents<sup>1</sup>, 2002 - 2003**

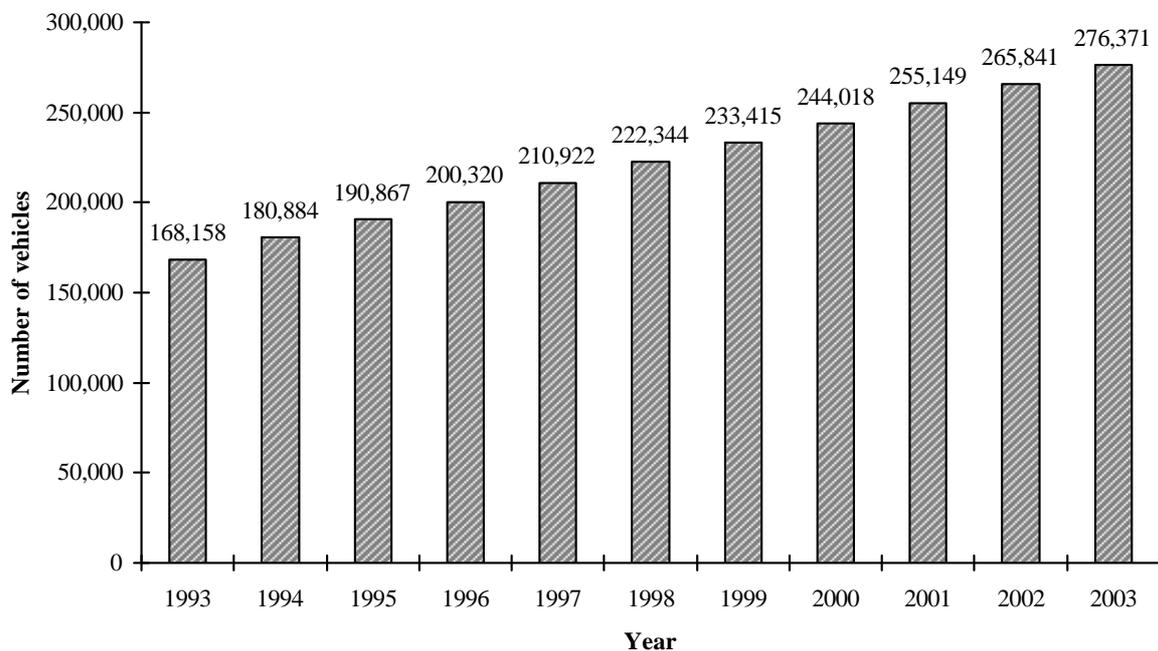
	2002	2003	Change	
			Number	%
<b>1. Road traffic accidents<sup>2</sup></b>				
<b>Number of accidents</b>	<b>18,022</b>	<b>19,178</b>	<b>+1156</b>	<b>+6.4</b>
Fatal accident	144	121	-23	-16.0
Serious injury accident	162	211	+49	+30.2
Slight injury accident	1,852	1,729	-123	-6.6
Non injury accident	15,864	17,117	+1253	+7.9
Rate per 100,000 population	1,535	1,616	N.A <sup>3</sup>	N.A <sup>3</sup>
Rate per 1,000 registered motor-vehicles	69	72	N.A <sup>3</sup>	N.A <sup>3</sup>
<b>2. Vehicles involved</b>				
Total	33,411	35,570	+2159	+6.5
of which Motor - vehicles	33,119	35,239	+2120	+6.4
Other	292	331	+39	+13.4
Rate per 1,000 registered motor-vehicles	127	133	N.A <sup>3</sup>	N.A <sup>3</sup>
<b>3. Casualties<sup>2</sup></b>				
<b>Total number of casualties</b>	<b>2,904</b>	<b>2,698</b>	<b>-206</b>	<b>-7.1</b>
Fatal	158	131	-27	-17.1
Seriously injured	216	291	+75	+34.7
Slightly injured	2,530	2,276	-254	-10.0

<sup>1</sup> Exclude accidents involving bicycles only

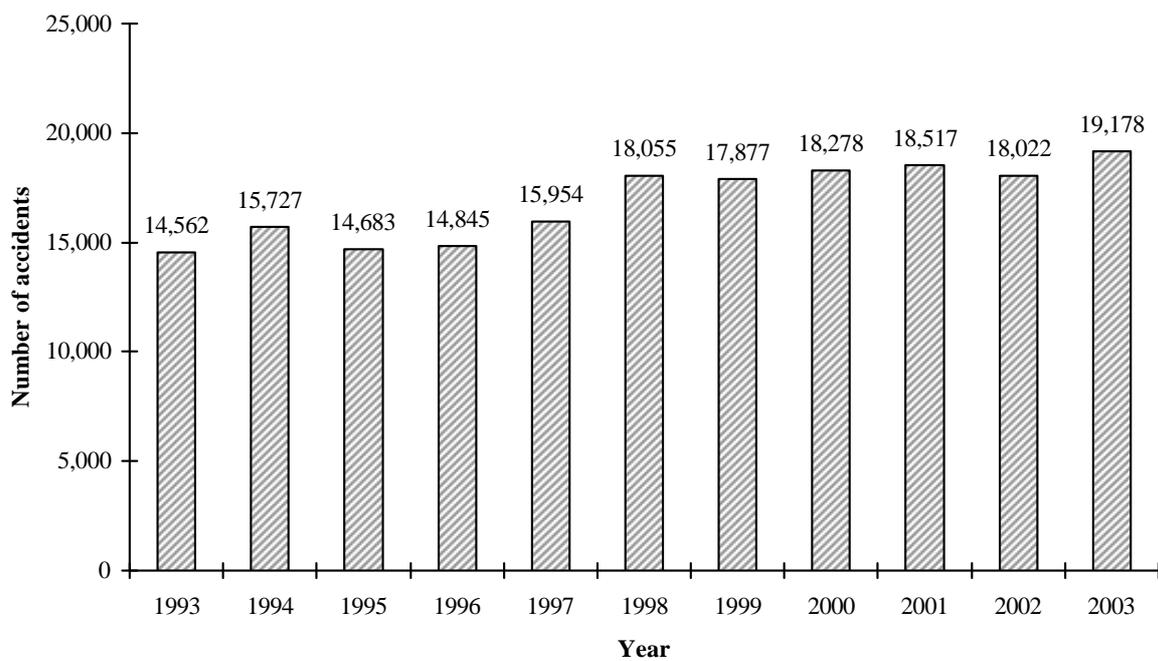
<sup>2</sup> Based on definition of fatal accidents where deaths occurred within 30 days.

<sup>3</sup> N.A : Not applicable

**Figure. 2.1(a) - Evolution of vehicles registered, 1993 - 2003**



**Figure. 2.1(b) - Evolution of road accidents, 1993 - 2003**



**Table 2.2 - Road traffic accidents <sup>1</sup> and casualties , 1993 - 2003**

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>1. Road traffic accidents:</b>											
<b>Number</b>	<b>14,562</b>	<b>15,727</b>	<b>14,683</b>	<b>14,845</b>	<b>15,954</b>	<b>18,055</b>	<b>17,877</b>	<b>18,278</b>	<b>18,517</b>	<b>18,022</b>	<b>19,178</b>
Rate per 100,000 Population	<i>1,370</i>	<i>1,459</i>	<i>1,350</i>	<i>1,351</i>	<i>1,433</i>	<i>1,605</i>	<i>1,569</i>	<i>1,588</i>	<i>1,591</i>	<i>1,535</i>	<i>1,616</i>
Rate per 1,000 registered motor vehicles	<i>91</i>	<i>91</i>	<i>80</i>	<i>77</i>	<i>78</i>	<i>84</i>	<i>79</i>	<i>77</i>	<i>75</i>	<i>69</i>	<i>72</i>
<b>2. Motor vehicles involved :</b>											
<b>Number</b>	<b>25,240</b>	<b>27,203</b>	<b>25,584</b>	<b>26,270</b>	<b>28,561</b>	<b>32,568</b>	<b>32,547</b>	<b>33,537</b>	<b>33,988</b>	<b>33,119</b>	<b>35,239</b>
Rate per 1,000 registered motor vehicles	<i>158</i>	<i>158</i>	<i>139</i>	<i>135</i>	<i>140</i>	<i>152</i>	<i>144</i>	<i>142</i>	<i>137</i>	<i>127</i>	<i>133</i>
<b>3. Casualties :</b>											
<b>Total number of casualties</b>	<b>4,160</b>	<b>3,947</b>	<b>3,586</b>	<b>3,774</b>	<b>3,755</b>	<b>3,828</b>	<b>3,405</b>	<b>3,291</b>	<b>3,264</b>	<b>2,904</b>	<b>2,698</b>
Fatal <sup>2</sup>	157	154	173	153	146	162	170	163	126	158	131
Seriously injured <sup>2</sup>	322	330	280	238	261	281	237	266	288	216	291
Slightly injured	3,681	3,463	3,133	3,383	3,348	3,385	2,998	2,862	2,850	2,530	2,276
<b>4. Fatality :</b>											
Rate per 100,000 population	<i>14.8</i>	<i>14.3</i>	<i>15.9</i>	<i>13.9</i>	<i>13.1</i>	<i>14.4</i>	<i>14.9</i>	<i>14.2</i>	<i>10.8</i>	<i>13.5</i>	<i>11.0</i>
Rate per 1,000 registered motor vehicles	<i>1.0</i>	<i>0.9</i>	<i>0.9</i>	<i>0.8</i>	<i>0.7</i>	<i>0.8</i>	<i>0.8</i>	<i>0.7</i>	<i>0.5</i>	<i>0.6</i>	<i>0.5</i>
<b>Index<sup>3</sup></b>	<i>3.8</i>	<i>3.9</i>	<i>4.8</i>	<i>4.1</i>	<i>3.9</i>	<i>4.2</i>	<i>5.0</i>	<i>5.0</i>	<i>3.9</i>	<i>5.4</i>	<i>4.8</i>

<sup>1</sup> Exclude accidents involving bicycles only

<sup>2</sup> From 1993 to 2001, figures were based on definition of fatal accidents where deaths occurred within 7 days as a result of the road accidents

As from 2002, figures are based on definition of fatal accidents where deaths occurred within 30 days as a result of the road accidents

<sup>3</sup> Fatality index is the number of fatalities per 100 casualties

**Table 2.3 - Vehicles<sup>1</sup> involved in accidents by type, 2002 - 2003**

Type of vehicle	2002						2003					
	Jan. - June		Jul. - Dec.		Year		Jan. - June		Jul. - Dec.		Year	
	Number	%										
Private car	7,398	44.6	7,454	44.3	14,852	44.5	8,155	46.5	8,267	45.9	16,422	46.2
Taxi car	1,476	8.9	1,445	8.6	2,921	8.7	1,501	8.6	1,567	8.7	3,068	8.6
Bus	1,224	7.4	1,196	7.1	2,420	7.2	1,159	6.6	1,241	6.9	2,400	6.7
Lorry	852	5.1	1,130	6.7	1,982	5.9	1,033	5.9	1,207	6.7	2,240	6.3
Van	3,518	21.2	3,487	20.7	7,005	21.0	3,481	19.8	3,640	20.2	7,121	20.0
Motor/auto cycle	1,824	10.9	1,832	10.9	3,656	10.9	1,845	10.5	1,763	9.8	3,608	10.1
Other motor vehicles	147	0.9	136	0.8	283	0.9	196	1.1	184	1.0	380	1.1
<b>Total motor vehicles</b>	<b>16,439</b>	<b>99.0</b>	<b>16,680</b>	<b>99.1</b>	<b>33,119</b>	<b>99.1</b>	<b>17,370</b>	<b>99.0</b>	<b>17,869</b>	<b>99.1</b>	<b>35,239</b>	<b>99.0</b>
Pedal cycle	144	0.9	131	0.8	275	0.8	168	0.9	149	0.8	317	0.9
Other non motor vehicle	2	0.1	15	0.1	17	0.1	11	0.1	3	0.1	14	0.1
<b>All vehicles</b>	<b>16,585</b>	<b>100.0</b>	<b>16,826</b>	<b>100.0</b>	<b>33,411</b>	<b>100.0</b>	<b>17,549</b>	<b>100.0</b>	<b>18,021</b>	<b>100.0</b>	<b>35,570</b>	<b>100.0</b>

<sup>1</sup> Only three main vehicles have been considered in accidents involving more than three vehicles

**Table 2.4 - Casualties by class of road users, 2002 - 2003**

Class of road users	2002				2003			
	Jan. - Jun.	Jul. - Dec.	Year		Jan. - Jun.	Jul. - Dec.	Year	
	Number	Number	Number	%	Number	Number	Number	%
Pedestrian	381	364	745	25.7	383	342	725	26.9
Passenger	420	350	770	26.5	312	381	693	25.7
Driver	153	143	296	10.2	150	145	295	10.9
Rider (auto / motor cycle)	442	426	868	29.9	400	331	731	27.1
Pedal cyclist	115	110	225	7.7	123	131	254	9.4
<b>All road users</b>	<b>1,511</b>	<b>1,393</b>	<b>2,904</b>	<b>100.0</b>	<b>1,368</b>	<b>1,330</b>	<b>2,698</b>	<b>100.0</b>

**Table 2.5 - Total road accidents involving "hit and run" cases, 2002 - 2003**

Period Accident	2002				2003			
	Jan. - Jun.	Jul. - Dec.	Year		Jan. - Jun.	Jul. - Dec.	Year	
	Number	Number	Number	%	Number	Number	Number	%
Vehicles v/s pedestria	11	19	30	10.3	45	22	67	16.2
Vehicles v/s vehicles	120	140	260	89.7	170	176	346	83.8
<b>Total</b>	<b>131</b>	<b>159</b>	<b>290</b>	<b>100.0</b>	<b>215</b>	<b>198</b>	<b>413</b>	<b>100.0</b>