

# **Road Transport and Road Traffic accident Statistics (Island of Mauritius)**

**Year 2010**

## **1. Vehicles registered in 2010**

At the end of 2010, the number of vehicles registered at the National Transport Authority (NTA) was 384,115. This represents a net increase of 17,595 (4.8%) vehicles as compared to the end of 2009 when the number of registered vehicles stood at 366,520 (Table 1.1).

## **2. Net increase between 2009 and 2010**

In 2010, the fleet was strengthened with the registration of 21,643 vehicles, of which 14,367 (66.4%) were new, 5,598 (25.9%) were imported second-hand and the other 1,678 (7.7%) were re-registered vehicles previously put off the road. During the same period, 4,048 vehicles were put off the road, thus resulting in a net addition of 17,595 vehicles to the existing fleet (Table 1.1).

## **3. Composition of the fleet**

The composition of the fleet by type of vehicles is shown in Table 1.2. At the end of 2010, the fleet consisted of 175,634 (45.7%) cars and dual purpose vehicles and 159,329 (41.5%) motorized two-wheelers. The remaining 12.8% comprised 25,914 vans, 13,186 lorries and trucks, 2,845 buses and 7,207 other vehicles.

## **4. Cars and dual purpose vehicles**

The number of cars and dual purpose vehicles increased by 10,598 (6.4%) from 165,036 at the end of 2009 to 175,634 at the end of 2010. This net increase resulted from the registration of 11,943 vehicles (6,153 new, 4,904 imported second-hand and 886 re-registered) and the de-registration of another 1,345 vehicles.

Table 1.3 shows the age distribution of cars and dual purpose vehicles. At the end of 2010, 42.3% were less than 5 years, 23.7% between 5 and 9 years and the remaining 34.0%, 10 years and above.

## **5. Motor cycles and auto cycles**

At the end of 2010, there were 159,329 motor cycles and auto cycles. This represents a net increase of 6,394 (4.2%) against 152,935 at the end of 2009.

## **6. Buses**

At the end of 2010, there were 2,845 registered buses, out of which 1,843 or 64.8% were 'public' buses operating with a road service licence. During 2010, 157 new buses were registered while 116 buses were put off the road resulting in a net increase of 42 buses.

Table 1.4 which gives the age distribution of the fleet of public buses shows that 27.7% of the buses were under 5 years, 32.8% between 5 and 9 years and 39.5%, between 10 and 18 years.

## **7. Road traffic accidents**

In 2010, a total of 21,258 road accidents were reported, of which 2,564 (12.1%) were casualty accidents and 18,694 (87.9%) were non-injury accidents. A breakdown of casualty accidents by severity showed that 153 (6.0%) were fatal accidents, 474 (18.5%) were serious injury accidents and 1,937 (75.5%) were slight injury accidents.

Compared to 2009, the total number of road accidents in 2010 increased by 8.8%, from 19,542 to 21,258. Casualty accidents rose by 3.4% and non-injury accidents by 9.6%. Fatal and serious injury accidents increased by 18.6% and 17.0% respectively whilst slight injury accident decreased by 0.5% (Table 2.1).

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

During the year 2010, the total number of vehicles (both motor and non-motor) involved in road accidents was 41,263 against 38,058 in the previous year. The number of motor vehicles involved in accidents resulting in casualties in 2010 was 3,858 against 3,734 in 2009. Table 2.3 shows that 32.9% of these were private cars, another 37.2% motor/auto cycles and 12.5% vans.

As shown in Table 2.3, out of all vehicles involved in casualty accidents in 2010, around 32.9% were private cars, 37.2% were motor/auto cycles, 12.5% vans and 7.4% buses.

## **9. Casualties**

During 2010, a total of 3,677 casualties (fatalities and persons injured as a result of road accidents) were reported as compared to 3,661 for the corresponding period of 2009, i.e. an increase of 0.4%. The number of fatalities (persons killed as a result of road accidents) went up by 14.3% from 140 to 160 and the number of seriously injured increased by 13.8% from 516 to 587 while the number of slightly injured persons decreased by 2.5% from 3,005 to 2,930 (Table 2.1). The fatality rate expressed as the number of persons who died as a result of road accidents per 100,000 mid-year population increased from 11.3 in 2009 to 12.9 in 2010.

Table 2.4 shows that around 34.7% of the casualties were riders of motor/auto cycles, 28.4% passengers, 18.3% pedestrians, 14.1% drivers and 4.5% pedal cyclists.

#### **10. Hit and run cases in casualty accidents**

During the year 2010, 162 'hit and run' accidents involving casualties were reported to police stations against 167 for the corresponding period of the preceding year (Table 2.5). Among the 162 cases, 74 (45.7%) were accidents involving only vehicles while the remaining 88 (54.3%) involved both vehicles and pedestrians.

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## **Explanatory 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, and tractor;

(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) **Auto cycle**

An autocycle is a two wheeled motor vehicle, with or without pedals, whose engine capacity does not exceed 50 cubic centimeters.

(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 Accidents**

1. In this report, data on accidents refer to all road accidents reported to police stations and to insurance companies.

### **2. Road Traffic Accident**

A road traffic accident is an accident between two or more vehicles, a vehicle and a cyclist, a vehicle and a pedestrian, a vehicle and a fixed object such as a bridge, building, tree, post, etc, or a single vehicle that overturned on or near a public road.

### **3. Severity of accident**

Road traffic accidents are classified into the following categories according to the severity of the accident:

*Fatal accident* - an accident resulting in the death of one or more persons. Prior to 2002, a fatal accident was defined as an accident where deaths occurred within 7 days. As from 2002, a fatal accident is defined as an accident where deaths occurred within 30 days.

*Serious injury accident* - An accident in which one or more persons are seriously injured.

*Slight injury accident* - An accident in which one or more persons are slightly injured.

*Non injury accident* - An accident in which no one is killed or injured but which results in damage to the vehicle/s and/or other property only.

The above three categories are jointly referred to as *casualty accident*

### **4. Casualty**

Any person killed or injured in a road accident is referred to as a casualty.

*Fatality* - Any person killed during an accident, or within 30 days (7 days prior to 2002) as a result of an accident is referred to as a fatality.

*Serious Injury* - An injury for which a person is detained in hospital as an "in-patient" or any of the following injuries (whether or not he is detained in hospital): fractures, concussions, internal injuries, severe cuts and lacerations, crushings and severe general shock requiring medical treatment.

*Slight Injury* - An injury of minor character such as a sprain, bruise and cut not judged to be severe.

**Table 1.1 - Vehicles<sup>1</sup> registered in 2010**

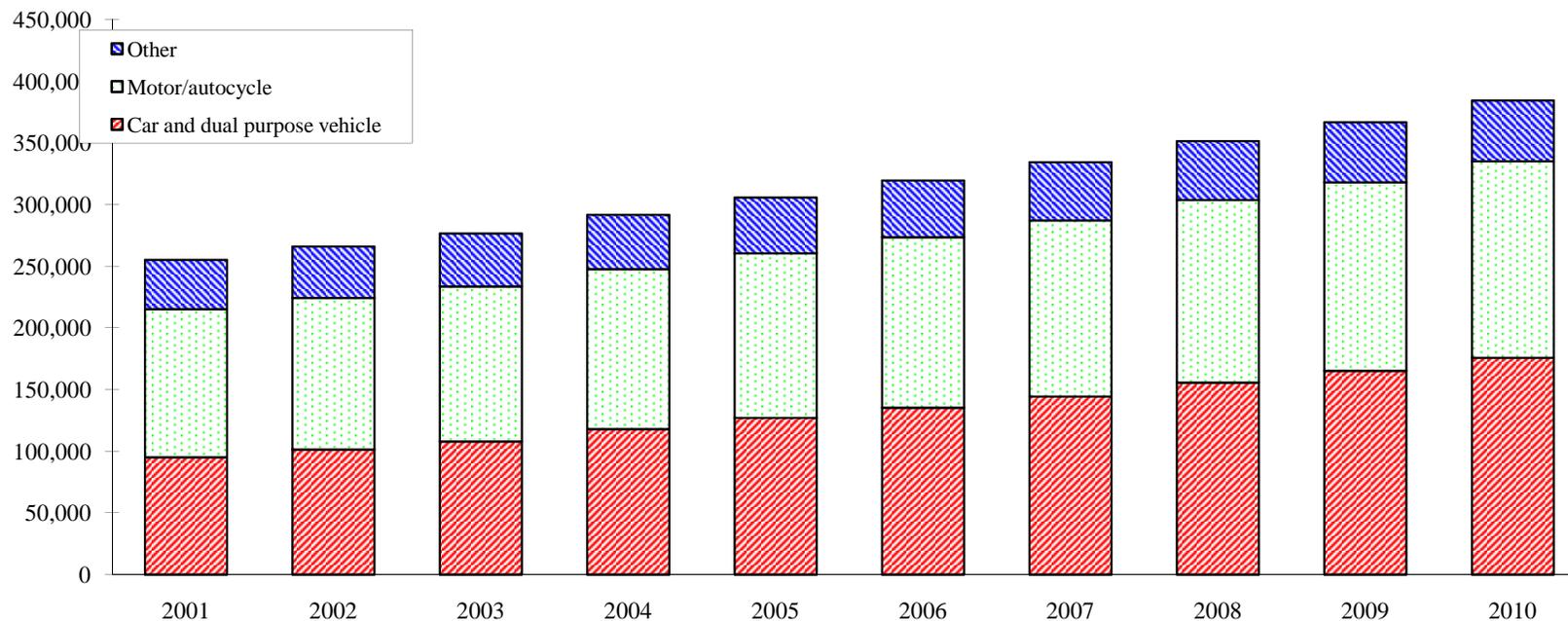
Type of vehicle	No. of vehicles at 31.12.09	New vehicles	Used imported vehicles	Re - registered vehicles <sup>2</sup>	Vehicles off the road <sup>3</sup>	No. of vehicles at 31.12.10	Net addition
Car	117,890	4,828	4,786	721	862	127,363	9,473
Dual purpose vehicle	47,146	1,325	118	165	483	48,271	1,125
Motor cycle	44,222	4,331	52	552	502	48,655	4,433
Auto cycle	108,713	3,019	5	1	1,064	110,674	1,961
Lorry and truck	12,950	261	242	98	365	13,186	236
Van	25,622	291	324	106	429	25,914	292
Bus	2,803	157	-	1	116	2,845	42
Other	7,174	155	71	34	227	7,207	33
<b>Total</b>	<b>366,520</b>	<b>14,367</b>	<b>5,598</b>	<b>1,678</b>	<b>4,048</b>	<b>384,115</b>	<b>17,595</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, 2001 - 2010**



Type of vehicle	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Car and dual purpose vehicle	95,066	101,436	107,907	118,009	126,844	135,132	144,405	155,528	165,036	175,634
Motor cycle and autocycle	119,953	122,801	125,602	129,500	133,430	138,174	142,606	147,988	152,935	159,329
Other	40,130	41,604	42,862	44,096	45,222	46,134	47,134	47,890	48,549	49,152
<b>Total</b>	<b>255,149</b>	<b>265,841</b>	<b>276,371</b>	<b>291,605</b>	<b>305,496</b>	<b>319,440</b>	<b>334,145</b>	<b>351,406</b>	<b>366,520</b>	<b>384,115</b>

**Table 1.2 - Vehicles<sup>1</sup> registered , 2001 - 2010**

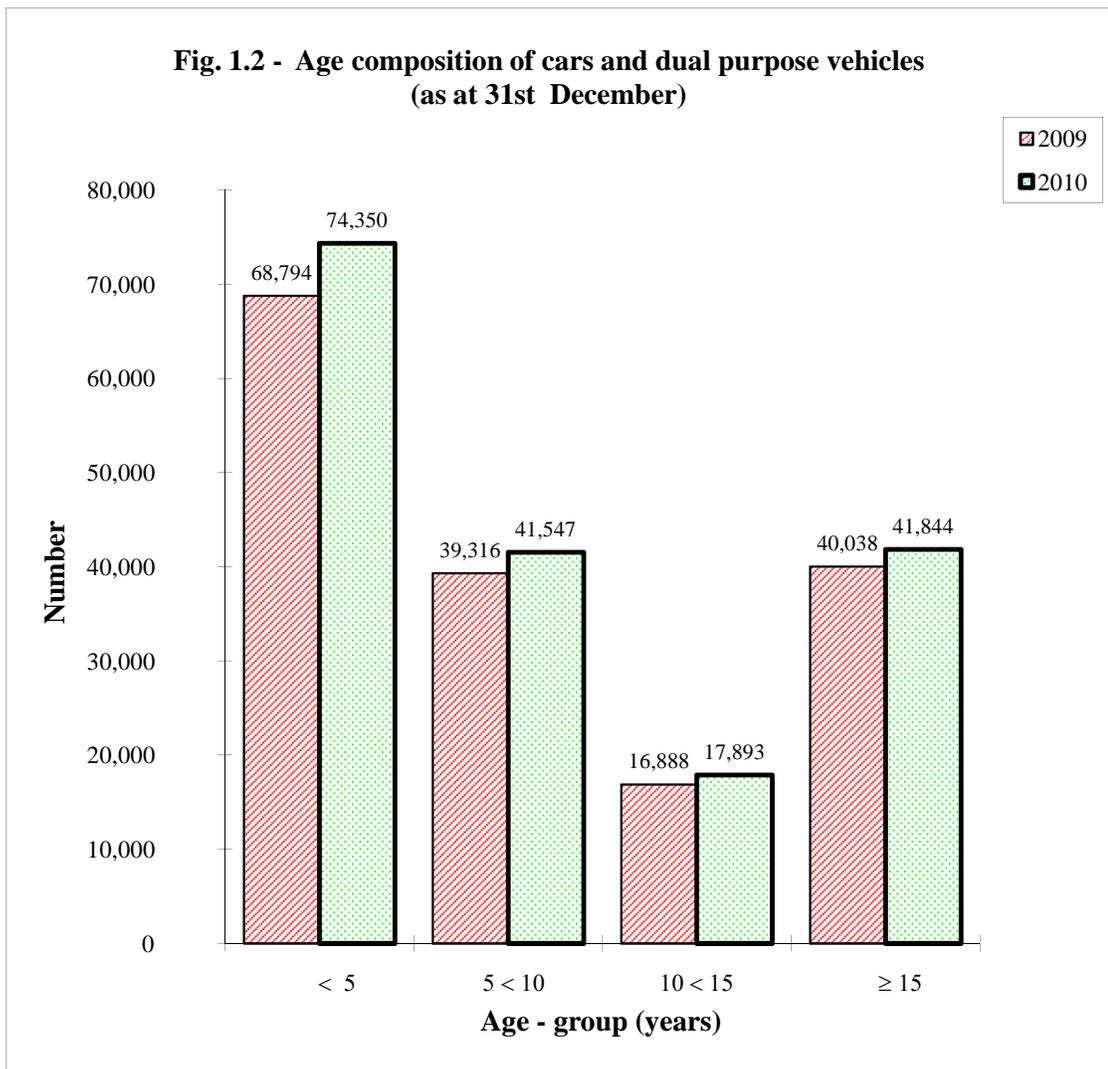
Type of vehicle	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Car	58,082	63,307	68,524	77,342	84,818	91,911	99,770	109,507	117,890	127,363
<i>(of which taxi car )</i>	<i>(5,318)</i>	<i>(5,801)</i>	<i>(5,979)</i>	<i>(6,482)</i>	<i>(6,798)</i>	<i>(6,860)</i>	<i>(6,885)</i>	<i>(6,941)</i>	<i>(6,941)</i>	<i>(6,924)</i>
Dual purpose vehicle	36,984	38,129	39,383	40,667	42,026	43,221	44,635	46,021	47,146	48,271
Heavy motor car	923	944	958	1,020	1,045	1,118	1,223	1,290	1,275	1,249
Motor cycle	25,104	25,723	26,744	28,646	30,927	33,936	36,969	40,804	44,222	48,655
Auto cycle	94,849	97,078	98,858	100,854	102,503	104,238	105,637	107,184	108,713	110,674
Lorry and truck	10,888	11,236	11,501	11,774	12,047	12,272	12,536	12,726	12,950	13,186
Van	20,694	21,750	22,496	23,326	23,989	24,522	24,934	25,334	25,622	25,914
Bus	2,408	2,450	2,460	2,457	2,560	2,612	2,753	2,762	2,803	2,845
Tractor and dumper	2,683	2,683	2,877	2,935	2,982	3,001	3,025	3,045	3,102	3,119
Prime mover	335	349	369	388	412	436	452	505	558	596
Trailer	1,776	1,770	1,772	1,771	1,765	1,756	1,795	1,809	1,823	1,821
Road roller	100	101	100	99	96	96	96	96	97	98
Other	323	321	329	326	326	321	320	323	319	324
<b>TOTAL</b>	<b>255,149</b>	<b>265,841</b>	<b>276,371</b>	<b>291,605</b>	<b>305,496</b>	<b>319,440</b>	<b>334,145</b>	<b>351,406</b>	<b>366,520</b>	<b>384,115</b>

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

**Table 1.3 - Age composition of cars and dual purpose vehicles, 2009 - 2010**

( as at 31st December )

Age group (Years)	2009		2010	
	Number	%	Number	%
< 5	68,794	41.7	74,350	42.3
5 < 10	39,316	23.8	41,547	23.7
10 < 15	16,888	10.2	17,893	10.2
≥ 15	40,038	24.3	41,844	23.8
<b>TOTAL</b>	<b>165,036</b>	<b>100.0</b>	<b>175,634</b>	<b>100.0</b>

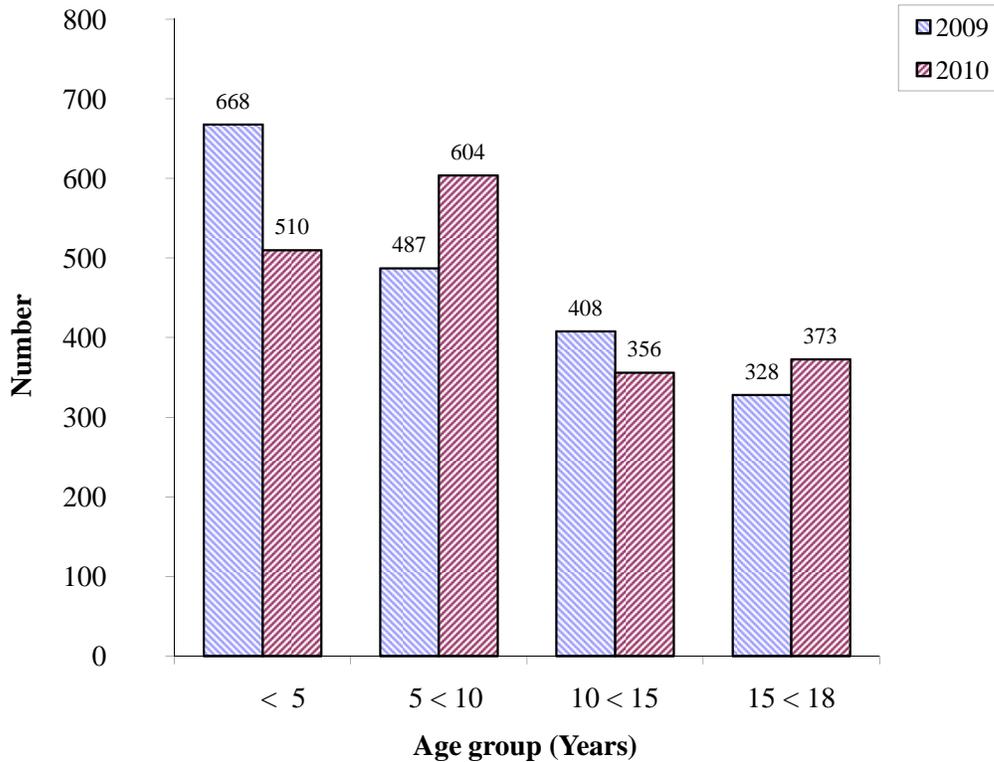
**Fig. 1.2 - Age composition of cars and dual purpose vehicles  
(as at 31st December)**

**Table 1.4 - Age composition of operational bus fleet <sup>1</sup>, 2009 - 2010**

(as at 31st December)

Age group (Years)	2009		2010	
	Number	%	Number	%
< 5	668	35.3	510	27.7
5 < 10	487	25.8	604	32.8
10 < 15	408	21.6	356	19.3
15 < 18	328	17.3	373	20.2
<b>TOTAL</b>	<b>1,891</b>	<b>100.0</b>	<b>1,843</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

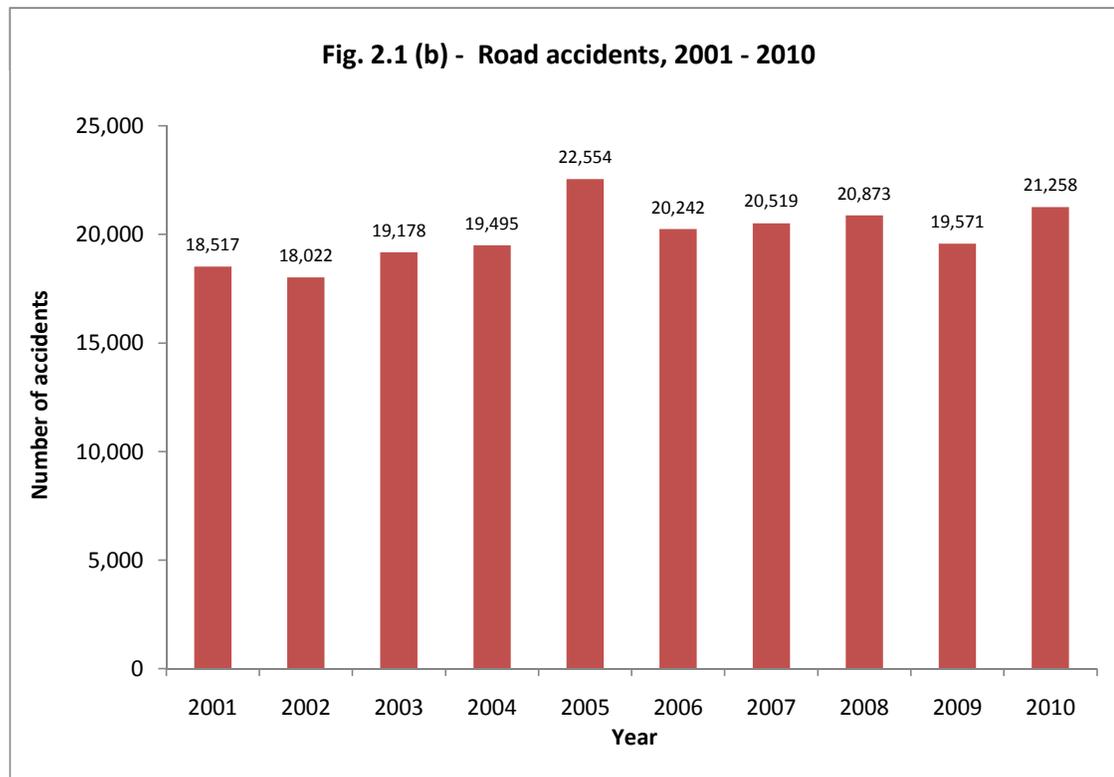
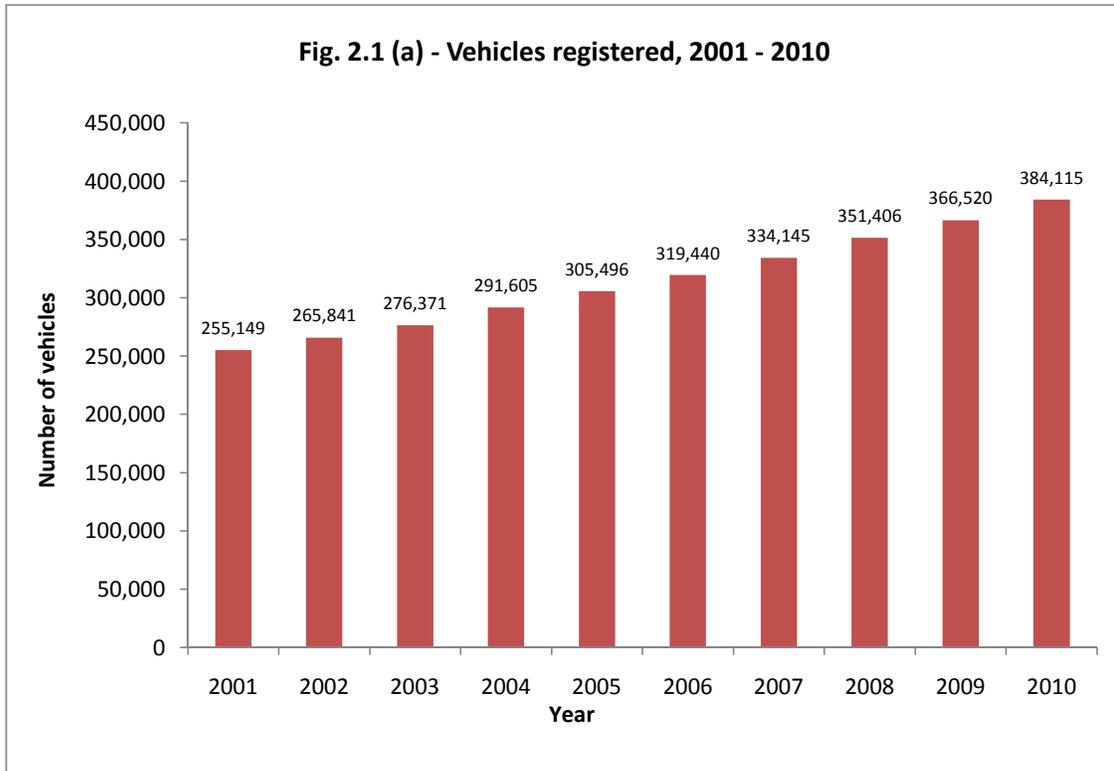
**Fig. 1.3 - Age composition of operational bus fleet vehicles  
(as at 31 st December)**

**Table 2.1 - Road traffic accidents<sup>1</sup>, 2009 - 2010**

	2009 <sup>3</sup>	2010	Change	
			Number	%
<b>1. Road traffic accidents</b>	<b>19,542</b>	<b>21,258</b>	<b>+ 1,716</b>	<b>+ 8.8</b>
Number of accidents causing casualties	2,480	2,564	+ 84	+ 3.4
<i>Fatal accident</i> <sup>2</sup>	129	153	+ 24	+ 18.6
<i>Serious injury accident</i>	405	474	+ 69	+ 17.0
<i>Slight injury accident</i>	1,946	1,937	- 9	- 0.5
Non injury accident	17,062	18,694	+ 1,632	+ 9.6
Rate per 100,000 population	1,579	1,710	N.A	N.A
Rate per 1,000 registered motor vehicles	54	57	N.A	N.A
<b>2. Vehicles involved in road accidents</b>				
Number of vehicles involved of which	38,058	41,263	+ 3,205	+ 8.4
<i>Motor Vehicles</i>	37,858	41,084	+ 3,226	+ 8.5
Rate per 1,000 registered motor vehicles	106	110	N.A	N.A
Number of m-vehicles involved in accidents causing casualties	3,734	3,858	+ 124	+ 3.3
<b>3. Casualties</b>	<b>3,661</b>	<b>3,677</b>	<b>+ 16</b>	<b>+ 0.4</b>
<i>Fatal</i> <sup>2</sup>	140	160	+ 20	+ 14.3
<i>Seriously injured</i>	516	587	+ 71	+ 13.8
<i>Slightly injured</i>	3,005	2,930	- 75	- 2.5

<sup>1</sup> Exclude accidents involving bicycles only or bicycle and pedestrian<sup>2</sup> Based on definition of fatal accidents where death occurred within 30 days.<sup>3</sup> Revised

N.A : Not applicable



**Table 2.2 - Road traffic accidents<sup>1</sup> and casualties, 2001 - 2010**

	2001	2002	2003	2004	2005	2006	2007	2008	2009 <sup>4</sup>	2010
<b>1. Road traffic accidents :</b>										
Number	18,517	18,022	19,178	19,495	22,554	20,242	20,519	20,873	19,542	21,258
Rate per 100,000 population	1,591	1,535	1,616	1,629	1,869	1,665	1,678	1,696	1,579	1,710
Rate per 1,000 registered motor vehicles	75	69	72	69	76	65	63	61	54	57
<b>2. Motor vehicle involved:</b>										
Number	33,988	33,119	35,239	35,506	43,741	40,023	41,178	42,910	38,058	41,263
Rate per 1,000 registered motor vehicles	137	127	133	126	148	129	127	125	106	110
<b>3. Casualties:</b>										
Total number of casualties of which	3,264	2,904	2,698	2,951	2,760	2,522	3,055	3,435	3,661	3,677
<i>Fatal</i> <sup>2</sup>	126	158	131	144	136	134	140	168	140	160
<i>Seriously injured</i>	288	216	291	245	358	348	500	512	516	587
<i>Slightly injured</i>	2,850	2,530	2,276	2,562	2,266	2,040	2,415	2,755	3,005	2,930
<b>4. Fatality :</b>										
Rate per 100,000 population	10.8	13.5	11.0	12.0	11.3	11.0	11.4	13.6	11.3	12.9
Rate per 1,000 registered motor vehicles	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4
Fatality index <sup>3</sup>	3.9	5.4	4.8	4.9	4.9	5.3	4.6	4.9	3.8	4.4

<sup>1</sup> Exclude accidents involving bicycles only or bicycle and pedestrian

<sup>2</sup> From 1993 to 2001 figures are based on definition of fatal accidents where death occurred within 7 days.

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

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

<sup>4</sup> Revised

**Table 2.3 -Number of vehicles<sup>1</sup> involved in accidents (causing casualties) by type, 2009 - 2010**

Type of vehicle	2009					2010				
	Casualties					Casualties				
	Fatal	Serious	Slight	Total	%	Fatal	Serious	Slight	Total	%
Private car	32	185	1,074	1,291	33	66	263	998	1,327	33
Taxi car	2	13	84	99	3	5	9	71	85	2
Bus	21	40	253	314	8	28	41	228	297	7
Lorry	6	25	72	103	3	6	27	82	115	3
Van	26	68	402	496	13	31	89	386	506	13
Motor / auto cycle	46	238	1,133	1,417	36	73	283	1,145	1,501	37
Other motor vehicles	2	2	10	14	0	2	5	20	27	1
<b>Total motor vehicles</b>	<b>135</b>	<b>571</b>	<b>3,028</b>	<b>3,734</b>	<b>94.9</b>	<b>211</b>	<b>717</b>	<b>2,930</b>	<b>3,858</b>	<b>95.6</b>
Pedal cycle	13	26	161	200	5.1	9	22	148	179	4.4
Other non motor vehicles	0	0	0	0	0	0	0	0	0	0
<b>All vehicles</b>	<b>148</b>	<b>597</b>	<b>3,189</b>	<b>3,934</b>	<b>100.0</b>	<b>220</b>	<b>739</b>	<b>3,078</b>	<b>4,037</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 - Number of casualties by class of road users, 2009- 2010**

Class of road users	2009				2010			
	Jan. - Jun.	Jul. - Dec.	Total	%	Jan. - Jun.	Jul. - Dec.	Total	%
Pedestrian	325	353	678	18.5	347	325	672	18.3
Passenger	611	505	1,116	30.5	510	536	1,046	28.4
Driver	219	228	447	12.2	242	277	519	14.1
Rider (auto / motor cycle)	580	664	1,244	34.0	656	620	1,276	34.7
Pedal cyclist	98	78	176	4.8	81	83	164	4.5
<b>Total</b>	<b>1,833</b>	<b>1,828</b>	<b>3,661</b>	<b>100.0</b>	<b>1,836</b>	<b>1,841</b>	<b>3,677</b>	<b>100.0</b>

<sup>1</sup> Revised**Table 2.5 - Number of accidents (causing casualties) involved in "hit and run" cases, 2009- 2010.**

Year \ Accident	2009 <sup>1</sup>				2010			
	Jan. - Jun.	Jul. - Dec.	Total	%	Jan. - Jun.	Jul. - Dec.	Total	%
Vehicles v/s pedestrian	31	38	69	41.3	54	34	88	54.3
Vehicles v/s vehicles	59	39	98	58.7	42	32	74	45.7
<b>Total</b>	<b>90</b>	<b>77</b>	<b>167</b>	<b>100.0</b>	<b>96</b>	<b>66</b>	<b>162</b>	<b>100.0</b>

<sup>1</sup> Revised