

# Road Transport and Road Traffic Accident Statistics (Island of Mauritius)

Year 2013

## 1. Vehicles registered in 2013

At the end of December 2013, there were 443,495 vehicles registered at the National Transport Authority (NTA). This represents a net increase of 21,569 vehicles (5.1%) as compared to end of year 2012 when the number of registered vehicles was 421,926 (Table 1.1).

During the year 2013, the fleet was strengthened with the registration of 26,351 vehicles, of which 17,607 (66.8%) were new, 7,764 (29.5%) were imported second-hand and 980 (3.7%) were re-registered vehicles; i.e., those which had been previously put off the road. During the same period 4,782 vehicles were put off the road. The net addition to the existing fleet worked out to 21,569 vehicles (Table 1.1).

## 2. Composition of fleet

A breakdown of the fleet by type of vehicle is given in Table 1.2. At the end of December 2013, the fleet consisted of 47.7% (211,586) cars, double cab pickup and dual purpose vehicles and 40.8% (180,785) auto/motor cycles. The remaining 11.5% comprised vans (26,624), lorries and trucks (14,061), buses (2,963) and other vehicles (7,476). It is to be noted that, prior to year 2013, double cab pickup was included in dual purpose vehicles.

## 3. Vehicles used for transport of passengers

### 3.1 *Cars, double cap pickup and dual purpose vehicles*

At the end of December 2013, the number of cars, double cab pickup and dual purpose vehicles was 211,586, a rise of 6.9% over the figure of 197,849 as at end of December 2012. This increase resulted from the registration of 15,471 such vehicles (7,804 new, 7,207 imported second-hand and 460 re-registered), partly offset by 1,734 vehicles that were put off the road.

Table 1.3 shows the age distribution of cars, double cab pickup and dual purpose vehicles. At the end of December 2013, 43.9% were less than 5 years, 24.8% between 5 and 9 years and the remaining 31.3%, 10 years and above.

### 3.2 *Buses*

At the end of December 2013, there were 2,963 registered buses, out of which 1,931 or 65.2% were 'public' buses operating with a road service licence. During 2013, some 91 new buses were registered while 85 buses were put off the road resulting in a net increase of 6 buses.

Table 1.4, which gives the age distribution of the fleet of public buses, shows that 31.2% of the buses were under 5 years, 35.5% between 5 and 9 years and 33.3%, between 10 and 20 years.

#### **4. Motor cycles and auto cycles**

At the end of 2013, there were 180,785 motor cycles and auto cycles. This represents a net increase of 7,277 (+4.2%) against 173,508 at the end of 2012.

#### **5. Road traffic accidents**

The number of road accidents registered during the year 2013 was 23,563 against 21,056 in the preceding year, showing an increase of 11.9%. Among these accidents, the majority, 20,985 (89.1%) were non-injury, 119 fatal, 389 caused serious injuries and 2,070 slight injuries.

Compared to 2012, accidents causing casualties went down by 0.5% while non-injury accidents went up by 13.6%. Fatal and serious accidents went down by 17.4% and 14.5% respectively whilst slight injury accident increased by 13.6%.

The accident rate, expressed as the number of accidents per 100,000 mid-year population, increased from 1,733 in 2012 to 1,936 in 2013 and the number of accidents per 1,000 mid-year registered motor vehicles increased from 51 in 2012 to 55 in 2013 (Table 2.1).

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

During the year 2013, the total number of vehicles (both motor and non-motor) involved in road accidents was 42,086 against 40,922 in the previous year. The number of motor vehicles involved in accidents resulting in casualties was 3,866 in 2013 against 3,904 in 2012. Table 2.3 shows that 29.9% of the vehicles were private cars, 41.0% were motor/auto cycles, 5.7% were buses and 5.2% were vans.

#### **7. Casualties**

The number of casualties (fatalities and persons injured as a result of road accidents) went up by 3.1% from 3,502 in 2012 to 3,610 in 2013. Among the casualties, 136 were fatal, 465 seriously injured and the remaining 3,009 slightly injured.

Table 2.4 reveals that, among the casualties in 2013, some 22.8% were passengers, 41.5% riders of auto/motor cycles, 16.6% pedestrians, 15.0% drivers and 4.1% pedal cyclists.

Compared to 2012, the number of persons who died as a result of road accidents went down by 12.8%. The fatality rate, expressed as the number of persons who died as a result of road accidents per 100,000 mid-year population, decreased from 12.8% in 2012 to 11.2% in 2013. Out of the 136 persons killed in road accidents during year 2013, the most vulnerable category of road users were pedestrians (47), followed by riders/pillion riders of motorised two-wheelers (42), (Table 2.6).

#### **8. Hit and run cases of accidents causing casualties**

In 2013, there were 192 "hit and run" cases causing casualties compared to 196 in 2012. Out of these 192 cases, 56.8% (109) involved vehicles only while the other 43.2% (83) involved both vehicles and pedestrians (Table 2.5).

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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 and subsequent amended Act No. 27 of 2012.

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 auto cycle 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.

(e) **Double cab pickup**

Double cab pickup means a motor vehicle which has –

- ( i ) a front passenger cabin which contain 2 rows of seats and is capable of seating a maximum of 4 persons excluding the driver,
- ( ii ) at least 2 doors capable of being opened separately; and
- ( iii ) an open pickup area behind the passenger cabin.

## 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.

### 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 as a result of an accident is referred to as a fatality.

#### *Injury definition*

(i) As from January 2013:

(a) Serious Injury - An injury for which a person is admitted to hospital as an "in-patient" for more than 24 hours.

(b) Slight Injury - An injury for which a person has received medical care but has not been admitted to hospital for more than 24 hours.

(ii) Prior to January 2013:

(a) 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.

(b) 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 2013**

Type of vehicle	No. of vehicles at 31.12.12	New vehicles	Imported second-hand vehicles	Re - registered vehicles <sup>2</sup>	Vehicles off the road <sup>3</sup>	No. of vehicles at 31.12.13	Net addition 2013
Car	147,733	6,651	7,109	350	1,142	160,701	12,968
Dual purpose vehicle	50,116	74	76	47	583	49,730	- 386
Double cab pickup <sup>4</sup>	-	1,079	22	63	9	1,155	1,155
Motor cycle	59,637	6,481	66	346	703	65,827	6,190
Auto cycle	113,871	2,444	4	3	1,364	114,958	1,087
Lorry and truck	13,902	209	109	65	224	14,061	159
Van	26,293	452	297	71	489	26,624	331
Bus	2,957	91	-	-	85	2,963	6
Other	7,417	126	81	35	183	7,476	59
<b>Total</b>	<b>421,926</b>	<b>17,607</b>	<b>7,764</b>	<b>980</b>	<b>4,782</b>	<b>443,495</b>	<b>21,569</b>

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

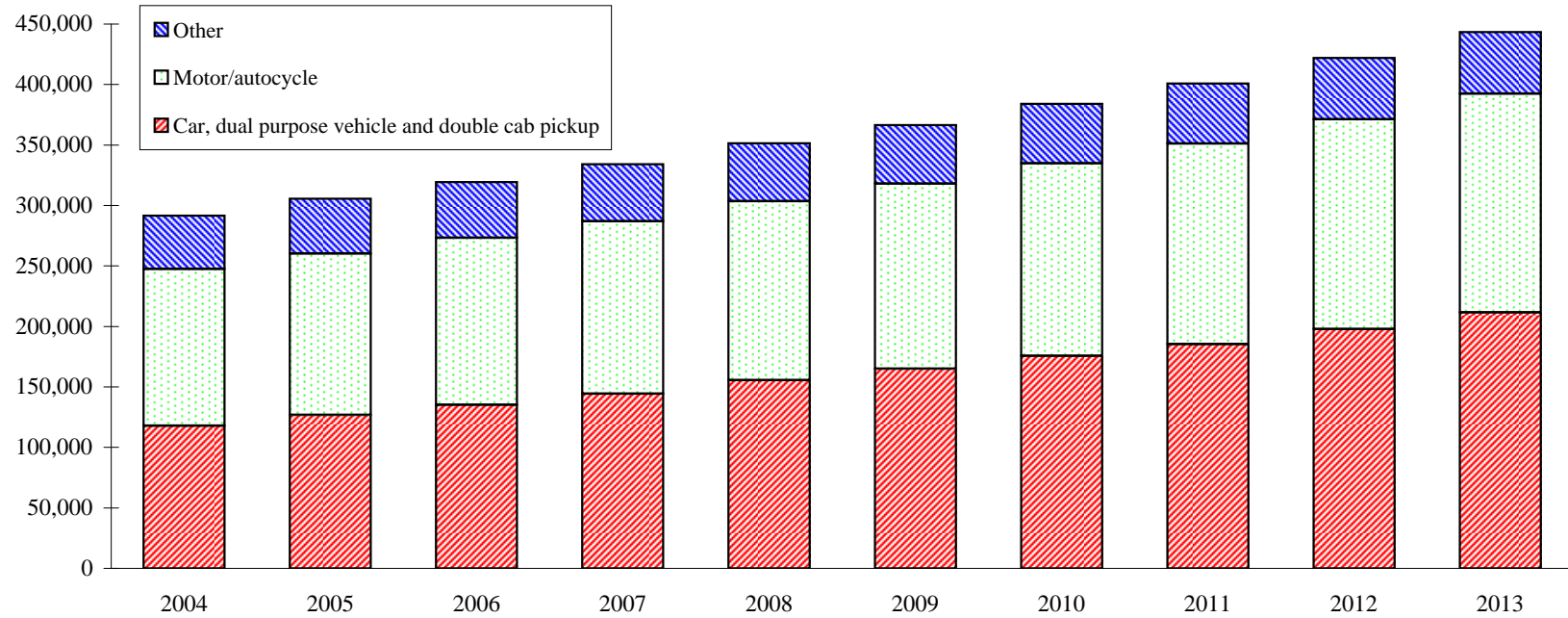
<sup>2</sup> Refers to re-registration of vehicles previously off the road.

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

<sup>4</sup> New category of vehicle defined in Road Traffic Act as amended by Act No. 27 of 2012.

Prior to the year 2013 'double cab pickup' was included in 'dual purpose vehicle'

**Fig. 1.1 - Stock of registered vehicles, 2004 - 2013**



Type of vehicle	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Car, dual purpose vehicle and double cab pickup <sup>1</sup>	118,009	126,844	135,132	144,405	155,528	165,036	175,634	185,357	197,849	211,586
Motor cycle and autocycle	129,500	133,430	138,174	142,606	147,988	152,935	159,329	165,706	173,508	180,785
Other	44,096	45,222	46,134	47,134	47,890	48,549	49,152	49,856	50,569	51,124
<b>Total</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>	<b>400,919</b>	<b>421,926</b>	<b>443,495</b>

<sup>1</sup> New category of vehicle defined in Road Traffic Act as amended by Act No. 27 of 2012.  
Prior to the year 2013 'double cab pickup' was included in 'dual purpose vehicle'

**Table 1.2 - Vehicles<sup>1</sup> registered , 2004 - 2013**

Type of vehicle	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Car	77,342	84,818	91,911	99,770	109,507	117,890	127,363	136,225	147,733	160,701
<i>(of which taxi car)</i>	<i>(6,482)</i>	<i>(6,798)</i>	<i>(6,860)</i>	<i>(6,885)</i>	<i>(6,941)</i>	<i>(6,921)</i>	<i>(6,924)</i>	<i>(6,907)</i>	<i>(6,905)</i>	<i>(6,915)</i>
Dual purpose vehicle	40,667	42,026	43,221	44,635	46,021	47,146	48,271	49,132	50,116	49,730
Double cab pickup <sup>2</sup>	-	-	-	-	-	-	-	-	-	1,155
Heavy motor car	1,020	1,045	1,118	1,223	1,290	1,275	1,249	1,230	1,244	1,250
Motor cycle	28,646	30,927	33,936	36,969	40,804	44,222	48,655	53,410	59,637	65,827
Auto cycle	100,854	102,503	104,238	105,637	107,184	108,713	110,674	112,296	113,871	114,958
Lorry and truck	11,774	12,047	12,272	12,536	12,726	12,950	13,186	13,539	13,902	14,061
Van	23,326	23,989	24,522	24,934	25,334	25,622	25,914	26,090	26,293	26,624
Bus	2,457	2,560	2,612	2,753	2,762	2,803	2,845	2,912	2,957	2,963
Tractor and dumper	2,935	2,982	3,001	3,025	3,045	3,102	3,119	3,173	3,202	3,226
Prime mover	388	412	436	452	505	558	596	650	689	715
Trailer	1,771	1,765	1,756	1,795	1,809	1,823	1,821	1,834	1,845	1,846
Road roller	99	96	96	96	96	97	98	99	101	102
Other	326	326	321	320	323	319	324	329	336	337
<b>TOTAL</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>	<b>400,919</b>	<b>421,926</b>	<b>443,495</b>

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

<sup>2</sup> New category of vehicle defined in Road Traffic Act as amended by Act No. 27 of 2012.

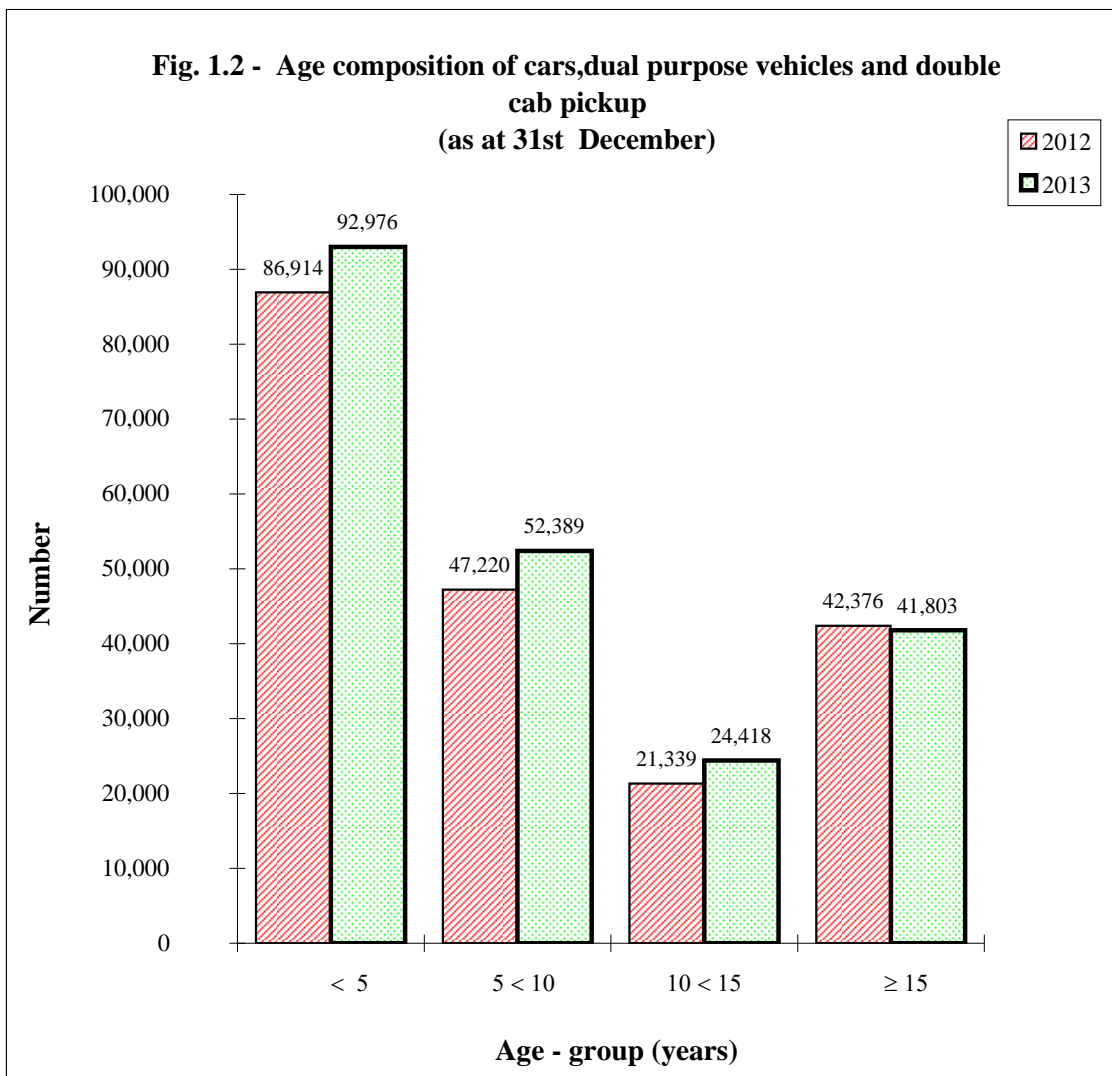
Prior to the year 2013 'double cab pickup' was included in 'dual purpose vehicle'



**Table 1.3 - Age composition of cars, dual purpose vehicles and double cab pickup<sup>1</sup>, 2012 - 2013**

( as at 31st December )

Age group (Years)	2012		2013	
	Number	%	Number	%
< 5	86,914	43.9	92,976	43.9
5 < 10	47,220	23.9	52,389	24.8
10 < 15	21,339	10.8	24,418	11.5
≥ 15	42,376	21.4	41,803	19.8
<b>TOTAL</b>	<b>197,849</b>	<b>100.0</b>	<b>211,586</b>	<b>100.0</b>



<sup>1</sup> New category of vehicle defined in Road Traffic Act as amended by Act No. 27 of 2012.

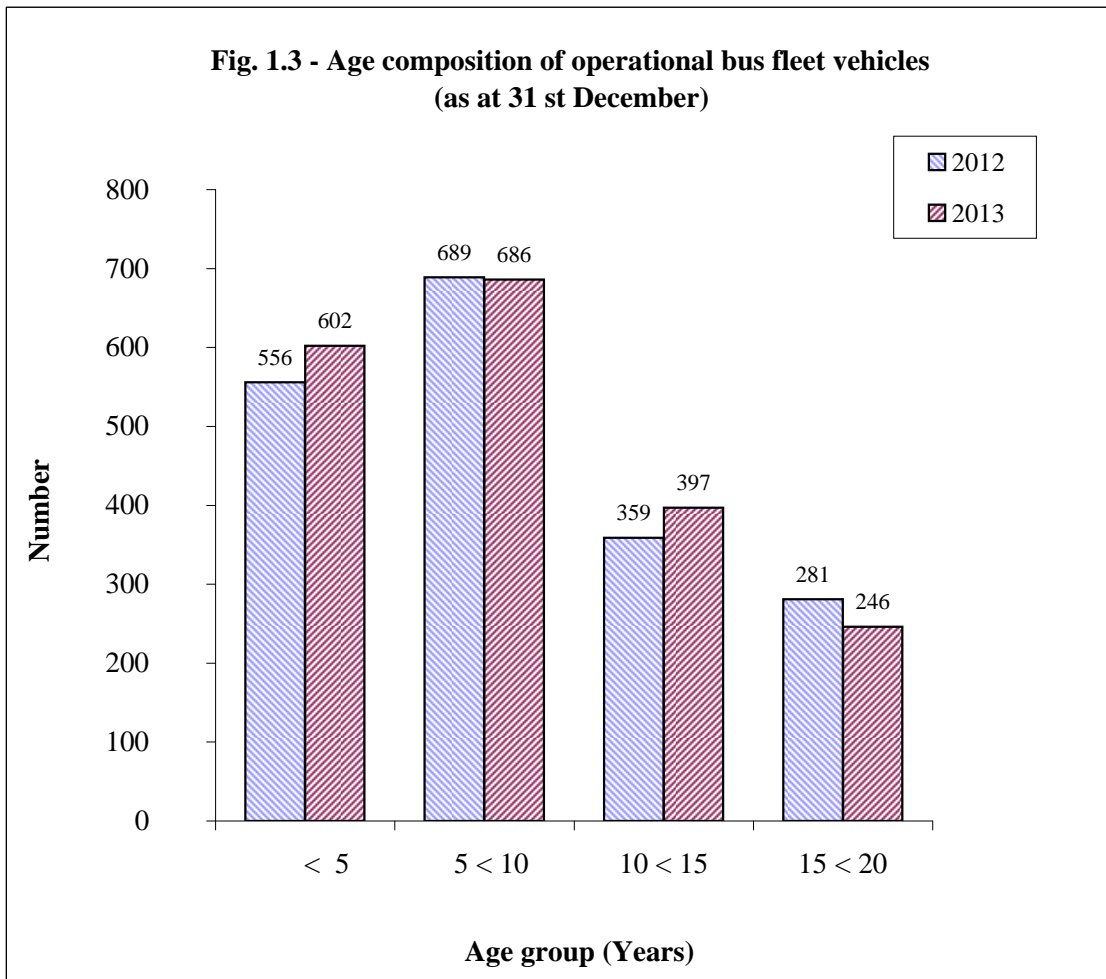
Prior to the year 2013 'double cab pickup' was included in 'dual purpose vehicle'

**Table 1.4 - Age composition of operational bus fleet <sup>1</sup>, 2012 - 2013**

(as at 31st December)

Age group (Years)	2012		2013	
	Number	%	Number	%
< 5	556	29.5	602	31.2
5 < 10	689	36.6	686	35.5
10 < 15	359	19.0	397	20.6
15 < 20	281	14.9	246	12.7
<b>TOTAL</b>	<b>1,885</b>	<b>100.0</b>	<b>1,931</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

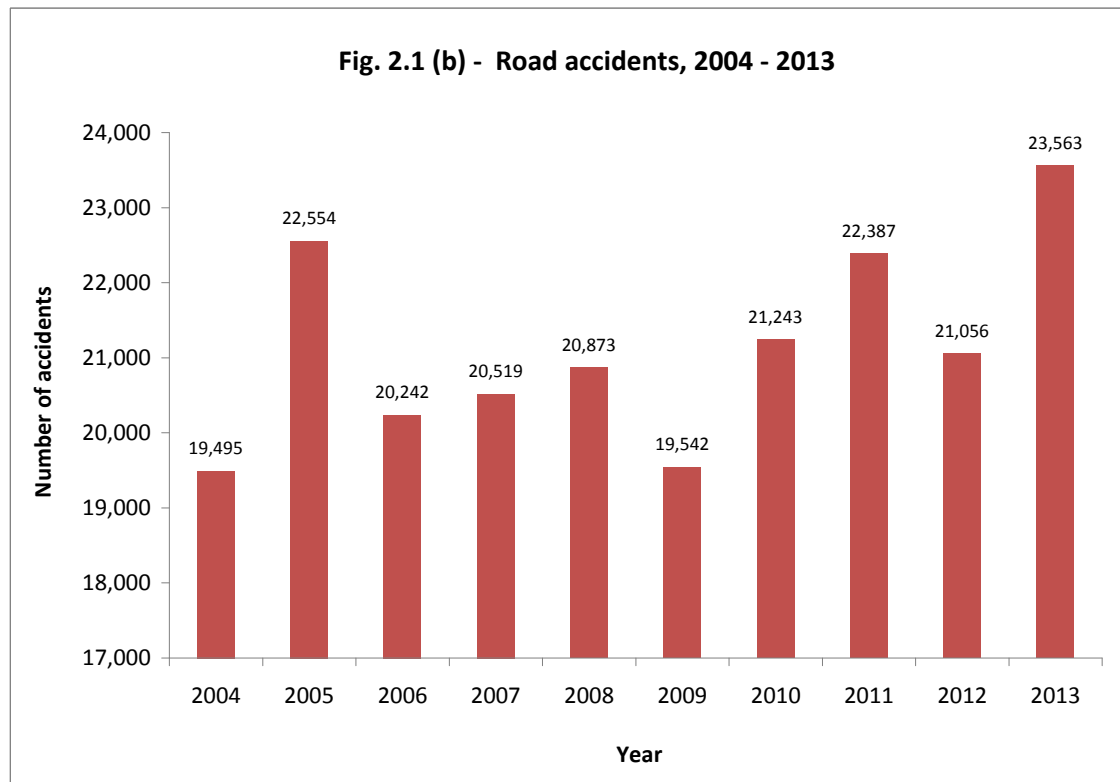
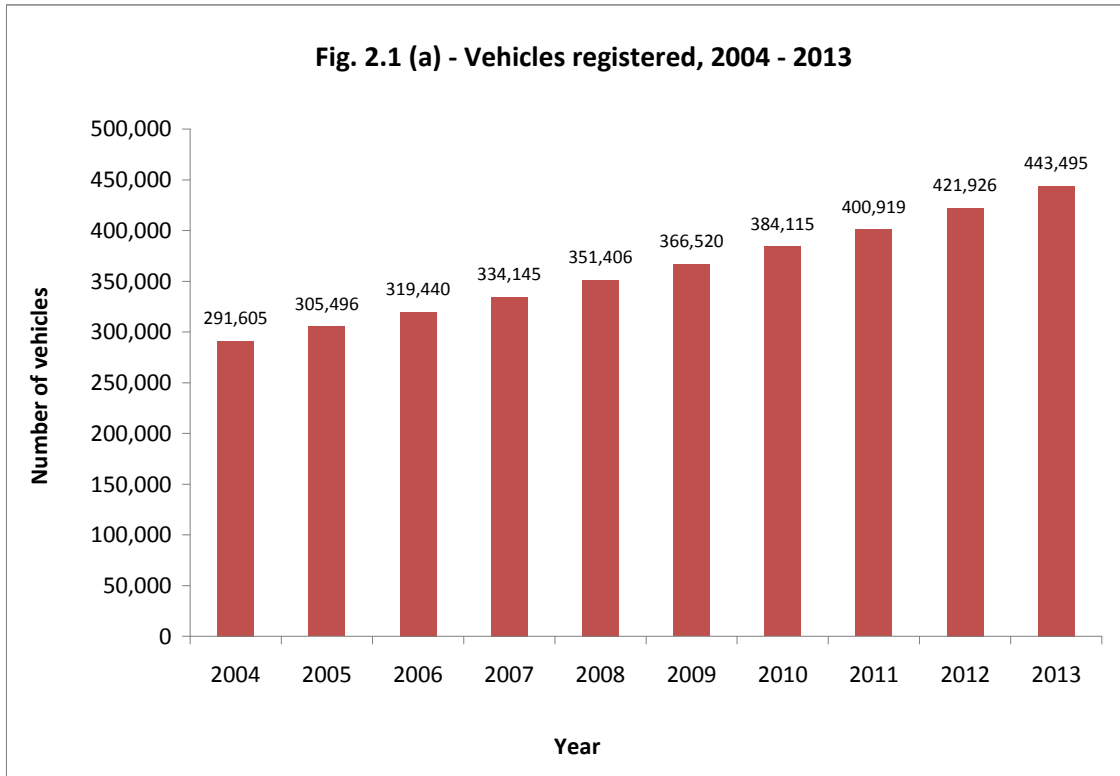


**Table 2.1 - Road traffic accidents<sup>1</sup>, 2012 - 2013**

	2012 <sup>3</sup>	2013 <sup>4</sup>	Change	
			Number	%
<b>1. Road traffic accidents</b>	<b>21,056</b>	<b>23,563</b>	<b>2,507</b>	<b>+ 11.9</b>
Number of accidents causing casualties	2,590	2,578	-12	- 0.5
<i>Fatal accident</i> <sup>2</sup>	144	119	-25	- 17.4
<i>Serious injury accident</i>	455	389	-66	- 14.5
<i>Slight injury accident</i>	1,991	2,070	79	+ 4.0
Non injury accident	18,466	20,985	2,519	+ 13.6
Rate per 100,000 population	1,733	1,936	N.A	N.A
Rate per 1,000 registered motor vehicles	51	55	N.A	N.A
<b>2. Vehicles involved in road accidents</b>				
Number of vehicles involved of which	40,922	42,086	1,164	+ 2.8
<i>Motor Vehicles</i>	40,759	41,888	1,129	+ 2.8
Rate per 1,000 registered motor vehicles	99	97	N.A	N.A
Number of m-vehicles involved in accidents causing casualties	3,904	3,866	-38	- 1.0
<b>3. Casualties</b>	<b>3,502</b>	<b>3,610</b>	<b>108</b>	<b>+ 3.1</b>
<i>Fatal</i> <sup>2</sup>	156	136	-20	- 12.8
<i>Seriously injured</i>	545	465	-80	- 14.7
<i>Slightly injured</i>	2,801	3,009	208	+ 7.4

<sup>1</sup> Exclude accidents involving bicycles only or bicycle and pedestrian<sup>3</sup> Revised<sup>2</sup> Based on definition of fatal accidents where death occurred within 30 days.<sup>4</sup> Provisional

N.A : Not applicable



**Table 2.2 - Road traffic accidents<sup>1</sup> and casualties, 2004 - 2013**

	2004	2005	2006	2007	2008	2009	2010	2011	2012 <sup>4</sup>	2013
<b>1. Road traffic accidents :</b>										
Number	19,495	22,554	20,242	20,519	20,873	19,542	21,243	22,387	21,056	23,563
Rate per 100,000 population	1,629	1,869	1,665	1,678	1,696	1,579	1,709	1,794	1,733	1,936
Rate per 1,000 registered motor vehicles	69	76	65	63	61	54	57	57	51	55
<b>2. Motor vehicle involved:</b>										
Number	35,506	43,741	40,023	41,178	42,910	38,058	41,084	41,294	40,759	41,888
Rate per 1,000 registered motor vehicles	126	148	129	127	125	106	110	105	99	97
<b>3. Casualties:</b>										
Total number of casualties of which	2,951	2,760	2,522	3,055	3,435	3,661	3,640	3,422	3,653	3,610
<i>Fatal</i> <sup>2</sup>	144	136	134	140	168	140	158	152	156	136
<i>Seriously injured</i>	245	358	348	500	512	516	569	487	549	465
<i>Slightly injured</i>	2,562	2,266	2,040	2,415	2,755	3,005	2,913	2,783	2,948	3,009
<b>4. Fatality :</b>										
Rate per 100,000 population	12.0	11.3	11.0	11.4	13.6	11.3	12.7	12.5 <sup>4</sup>	12.8	11.2
Rate per 1,000 registered motor vehicles	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.3
Fatality index <sup>3</sup>	4.9	4.9	5.3	4.6	4.9	3.8	4.3	4.4	4.3	3.8

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

<sup>2</sup> 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, 2012 - 2013**

Type of vehicle	2012					2013				
	Casualties					Casualties				
	Fatal	Serious	Slight	Total	%	Fatal	Serious	Slight	Total	%
Private car	39	228	1,102	1,369	33.4	40	168	1,008	1,216	29.9
Taxi car	1	6	54	61	1.5	1	10	52	63	1.5
Bus	20	50	186	256	6.3	12	36	183	231	5.7
Lorry	15	20	57	92	2.2	6	14	58	78	1.9
Van	19	37	189	245	6.0	8	32	171	211	5.2
Motor / auto cycle	77	287	1,205	1,569	38.3	53	297	1,318	1,668	41.0
Other motor vehicles	31	65	216	312	7.6	23	63	313	399	9.8
<b>Total motor vehicles</b>	<b>202</b>	<b>693</b>	<b>3,009</b>	<b>3,904</b>	<b>95.3</b>	<b>143</b>	<b>620</b>	<b>3,103</b>	<b>3,866</b>	<b>95.1</b>
Pedal cycle	13	28	151	192	4.7	13	31	155	199	4.9
Other non-motor vehicles	-	-	-	-	-	-	-	-	-	-
<b>All vehicles</b>	<b>215</b>	<b>721</b>	<b>3,160</b>	<b>4,096</b>	<b>100.0</b>	<b>156</b>	<b>651</b>	<b>3,258</b>	<b>4,065</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, 2012- 2013**

Class of road users	2012 <sup>1</sup>				2013			
	Jan. - Jun.	Jul. - Dec.	Total	%	Jan. - Jun.	Jul. - Dec.	Total	%
Pedestrian	334	318	652	17.8	291	310	601	16.6
Passenger	401	453	854	23.4	391	431	822	22.8
Driver	300	290	590	16.2	288	254	542	15.0
Rider (auto / motor cycle)	705	669	1,374	37.6	711	787	1,498	41.5
Pedal cyclist	52	131	183	5.0	42	105	147	4.1
<b>Total</b>	<b>1,792</b>	<b>1,861</b>	<b>3,653</b>	<b>100.0</b>	<b>1,723</b>	<b>1,887</b>	<b>3,610</b>	<b>100.0</b>

<sup>1</sup> Revised**Table 2.5 - Number of accidents (causing casualties) involved in "hit and run" cases, 2012- 2013.**

Year Accident	2012 <sup>1</sup>				2013			
	Jan. - Jun.	Jul. - Dec.	Total	%	Jan. - Jun.	Jul. - Dec.	Total	%
Vehicles v/s pedestrian	38	55	93	47.4	38	45	83	43.2
Vehicles v/s vehicles	50	53	103	52.6	52	57	109	56.8
<b>Total</b>	<b>88</b>	<b>108</b>	<b>196</b>	<b>100.0</b>	<b>90</b>	<b>102</b>	<b>192</b>	<b>100.0</b>

<sup>1</sup> Revised

**Table 2.6 - Number of fatalities by category of road users and age-group, 2013**

<b>Category of road users</b> <b>Age - group (years)</b>	<b>Cyclists</b>	<b>Drivers of four wheeled vehicles</b>	<b>Passengers of four wheeled vehicles</b>	<b>Pedestrians</b>	<b>Riders / pillion riders of motorised two - wheelers</b>	<b>Total</b>
<b>Under 5</b>	1	-	1	-	-	<b>2</b>
<b>5 - 14</b>	-	-	1	-	2	<b>3</b>
<b>15 - 29</b>	2	3	9	-	22	<b>36</b>
<b>30 - 44</b>	5	2	6	4	10	<b>27</b>
<b>45 - 59</b>	4	1	9	15	5	<b>34</b>
<b>60 - 69</b>	-	-	-	17	3	<b>20</b>
<b>Over 69</b>	1	-	2	11	-	<b>14</b>
<b>All ages</b>	<b>13</b>	<b>6</b>	<b>28</b>	<b>47</b>	<b>42</b>	<b>136</b>