

ROAD TRANSPORT AND ACCIDENT STATISTICS - 1993

1.1 Vehicles registered as at end of 1993

The fleet of vehicles registered at the National Transport Authority (NTA) at the end of December 1993 stood at 168,200. Compared to 155,320 the year before this represents an increase of 8%. Out of this number nearly half consisted of two wheelers (66,700 autocycles and 18,800 motor cycles), 34% were passenger cars with 57,400 vehicles and the remaining 15% comprised mainly vans (9,700), lorries (8,200) and buses (2,200).

1.2 Net addition during 1993

During the year under review, the fleet was increased with an additional 12,800 vehicles, representing a rise of 8% over the previous year. In fact some 16,600 vehicles were registered, of which 13,200 were new and 3,400 second hand. However as some 3,800 vehicles were put off the road during this same period, the net addition works out to around 12,800. This figure, however, is 18% lower than the increase registered in 1992 (15,100) and much lower still by 30% than the corresponding increase of 16,700 in 1991.

Over the last five years, the total stock of vehicles registered has been increasing at an average annual rate of 12%.

1.3 Passenger transport

By the end of 1993, the total number of passenger cars, inclusive of dual purpose vehicles, reached 57,400, an increase of about 6% over the previous year. On average, every month, some 400 motor cars were registered and about 120 put off the road.

The ratio of the number of passenger cars per 1,000 mid year population now works out to 54 as against 51 in 1992.

Table 1.3 on the age-distribution of passenger cars shows that 57% of the fleet on the road was under 10 years, as compared to 53% in 1992. It will also be observed that vehicles aged over 15 years have decreased by 2 percentage points, from 39% to 37% in 1993.

As regards bus transport, 211 new buses were licensed during 1993, while 95 were put off the road so that the total number of buses on the road reached 2,217 as at December.

About 75% of the bus fleet is now less than 10 years old, compared to 70% in 1992. At the same time it will be observed that, following government policy of not granting operating licenses to vehicles above 18 years of age, all buses on the road are now under 18.

2.1 Road accidents

During the year 1993, 14,640 accidents were recorded by the police against 14,370 in 1992. This represents a rise of 2% as compared to a corresponding increase of 7% in 1992.

The accident rate (i.e. the number of accidents per 1,000 registered motor vehicles) fell slightly from 97 in 1992 to 91 in 1993. It is noted that the corresponding figure for 1991 was 102.

The number of accidents per 100,000 population stood at 1,377, that is almost at the same level as in 1992.

II

2.2 Casualties

Though the number of casualties dropped by about 10% to 3,976 in 1993, being the lowest for the past five years, yet fatalities resulting from accidents rose up by 30% from 119 to 155 in 1993. The number of seriously and slightly injured also diminished by 105 and 350 respectively.

The fatality rate, that is, the ratio of the number of fatalities per 100,000 population stood at 14.6 in 1993, as compared to 11.3 in 1992 and 16.2 in 1991.

The most vulnerable class of road users were riders of motorcycles and autocycles which accounted for the highest proportion or one third of all casualties, followed by pedestrians (30%) and passengers (20%).

The injury rate, that is, the number of injuries per 100,000 population dropped to 374 from 419 in 1992.

2.3 Motor vehicles involved in accidents

The total number of motor vehicles involved in accidents was 24,746 in 1993, that is, about the same as the previous year (24,549). Nearly half of the vehicles involved were private and taxi cars, followed by motorised two wheelers (20%), vans 14% and buses 8%.

The ratio of motor vehicles involved in accidents per 1000 motor vehicles registered which stood at 173 in 1991 fell down to 166 in 1992 and further to 153 in 1993.

Central Statistical Office,
Ministry of Economic Planning and Development,
PORT LOUIS.

March, 1994

III

I Vehicle statistics - Definitions

Definitions under Section 4 of Road Traffic Act of 1962 for different types of vehicles.

1. Heavy Motor Car

That is to say, mechanically propelled vehicles, other than vehicles classified under this section as motor cars, which are constructed themselves to carry a load or passengers and whose unladen weight exceeds 2 1/2 tons.

2. Dual-purpose Vehicle

Means a vehicle, constructed or adapted for the carriage both of passengers and of goods or burden of any description whose unladen weight does not exceed two tons and which either:-

- (a) is so constructed or adapted that the driving power of the engine is, or by the appropriate use of the controls of the vehicle can be, transmitted to all the wheels of the vehicle; or
- (b) satisfies the following conditions as to construction -
 - (i) the vehicle is permanently fitted with a rigid roof, with or without a sliding panel;
 - (ii) the area of the vehicle to the rear of the driver's seat is -
 - (A) permanently fitted with at least one row of transverse seats (fixed or folding) for 2 or more passengers and those seats are properly sprung or cushioned and provided with upholstered backrests, attached either to the seats or to a side or the floor of the vehicle; and
 - (B) lit on each side and at the rear by a window or windows of glass or other transparent material having an area or aggregate area of not less than 2 square feet on each side and not less than 120 square inches at the rear.
 - (iii) the distance between the rearmost part of the steering wheel and the backrests of the row of transverse seats satisfying the requirements specified in subparagraph (ii) (A) (or, where there is more than one row of seats, the distance between the rearmost part of the steering wheel and the backrests of the rearmost row) is, when the seats are ready for use, not less than one-third of distance between the rearmost part of the steering wheel and the rearmost part of the floor of the vehicle.

3. Motor Cycles

That is to say, mechanically propelled vehicles, other than autocycles or vehicles classified under this section as invalid carriages, with not more than 4 wheels and whose unladen weight does not exceed 400 kilograms.

4. Auto-Cycles

That is to say, two-wheeled motor vehicles, with or without pedals, whose engine capacity does not exceed 50 cubic centimetres.

5. Motor Tractor

That is to say, mechanically propelled vehicles which are not constructed themselves to carry any load and whose unladen weight does not exceed 7 1/4 tons.

6. Trailer

- (a) means a vehicle which has no independent motive power of its own and which is drawn or designed to be drawn, by a motor vehicle,
- (b) does not include a sidecar attached to a motor cycle, nor a farm implement that is not constructed or adapted for the conveyance of goods or burden of any description.

7. Weight Unladen

means the weight of a vehicle which:-

- (a) includes the body and all parts (the heavier being taken where alternative bodies or parts are used) which are necessary to or ordinarily used with the vehicle when working on a road;
- (b) excludes the weight of water, fuel or accumulators used for the purpose of the supply of power for the propulsion of the vehicle or of loose tools and loose equipment.

II Road Traffic Accidents

Definitions

1. Casualties

The total number of fatalities and injuries resulting from road accidents.

2. Fatalities

Deaths occurring as a result of road accident if the victim dies within a week the accident occurs.

3. Injuries

The reported number of persons seriously or slightly injured in road accidents;

(i) 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.

- (a) fractures
- (b) concussions
- (c) internal injuries
- (d) severe cuts and lacerations
- (e) crushings
- (f) severe general shock requiring medical treatment

(ii) Slight Injury

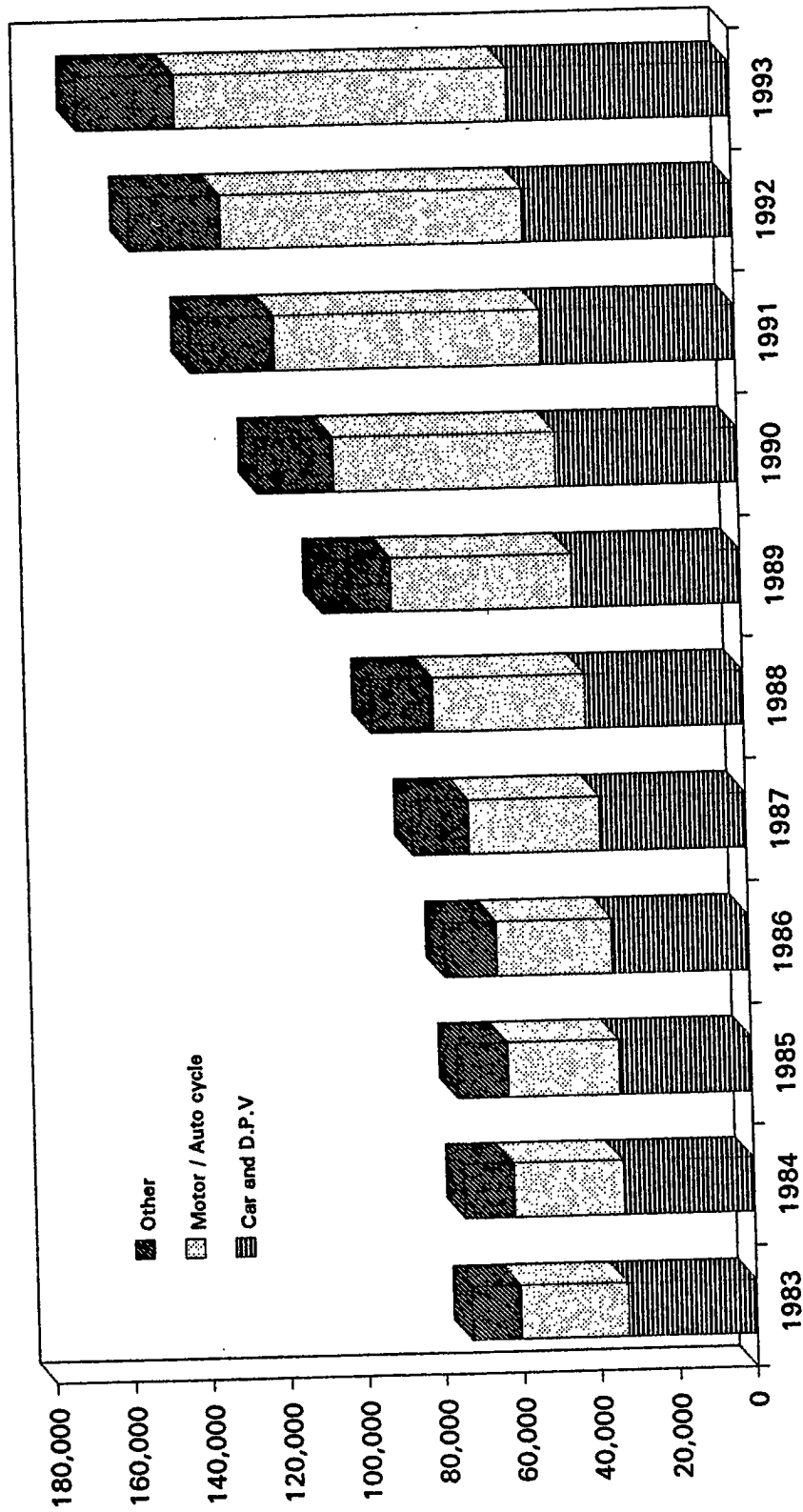
An injury of minor character such as:

- (a) sprain
- (b) bruise
- (c) cut not judged to be severe

4. Severity of accident

Each accident is classified according to the degree of injury sustained most by the road users, namely, Fatal, Serious, Slight or No injury.

Fig. 1.1 - Vehicles Stock 1983 - 1993



Type of vehicle	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Car and Dual Purpose Vehicle	33,053	33,486	33,982	35,124	37,544	40,566	43,379	46,793	50,016	53,945	57,393
Motor cycle and autocycle	27,481	28,105	28,528	29,564	33,560	39,093	46,404	57,094	68,574	77,736	85,540
Other	12,684	12,778	13,085	13,541	14,573	16,181	17,730	19,658	21,664	23,639	25,225
Total	73,218	74,369	75,595	78,229	85,677	95,840	107,513	123,545	140,254	155,320	168,158

Table 1.1 - Vehicles * Registered , 1983 - 1993

Type of vehicle	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Car	26,082	26,274	26,455	27,053	28,337	30,283	31,919	33,916	35,673	37,696	39,511
Dual Purpose Vehicle	6,971	7,212	7,527	8,071	9,207	10,283	11,460	12,877	14,343	16,246	17,882
Heavy Motor Car	370	373	400	423	454	517	624	695	766	799	826
Motor Cycle	8,711	8,882	9,014	9,205	9,436	9,912	10,560	11,937	14,740	16,880	18,829
Auto Cycle	18,770	19,223	19,514	20,359	24,124	29,181	35,844	45,157	53,834	60,859	66,711
Lorry & Truck	4,690	4,671	4,717	4,838	5,057	5,534	5,906	6,564	7,226	7,776	8,166
Van	3,089	3,265	3,440	3,636	4,115	4,788	5,600	6,637	7,602	8,749	9,663
Bus	1,418	1,364	1,369	1,360	1,529	1,771	1,858	1,929	2,021	2,097	2,217
Tractor & Dumper	1,760	1,742	1,788	1,863	1,940	2,013	2,078	2,156	2,274	2,356	2,413
Prime Mover	113	116	120	130	145	164	182	185	197	212	228
Trailer	968	976	983	997	1,039	1,083	1,151	1,155	1,231	1,288	1,333
Road Roller	114	105	97	91	87	101	98	94	96	100	106
Other	162	166	171	203	207	210	233	243	251	262	273
TOTAL	73,218	74,369	75,595	78,229	85,677	95,840	107,513	123,545	140,254	155,320	168,158
<i>Index</i>	<i>100</i>	<i>102</i>	<i>103</i>	<i>107</i>	<i>117</i>	<i>131</i>	<i>147</i>	<i>169</i>	<i>192</i>	<i>212</i>	<i>230</i>

* Excluding pedal cycles

Table 1.2 - Registration of Vehicles , 1993

Type	No. of Vehicles at 31.12.92	New Vehicles	Used Imported Vehicles	Re - Registered Vehicles	Vehicles off the Road *	No. of Vehicles at 31.12.93	Change 1993/1992
Car	37,696	1,663	1,092	335	1,275	39,511	1,815
Dual Purpose Vehicle	16,246	1,120	560	173	217	17,882	1,636
Motor Cycle	16,880	2,250	9	166	476	18,829	1,949
Auto Cycle	60,859	6,691	24	405	1,268	66,711	5,852
Lorry and Truck	7,776	325	185	83	203	8,166	390
Van	8,749	710	308	68	172	9,663	914
Bus	2,097	211	1	3	95	2,217	120
Other	5,017	191	21	41	91	5,179	162
TOTAL	155,320	13,161	2,200	1,274	3,797	168,158	12,838

* Unlicensed either temporarily or permanently

**Table 1.3 - Age distribution of cars and dual purpose vehicles ,
1992 - 1993**

Age group (Years)	as at 31st December 1992		as at 31st December 1993	
	Number	%	Number	%
< 5	19,594	36	21,082	37
5 < 10	9,118	17	11,469	20
10 < 15	4,059	8	3,342	6
> 15	21,171	39	21,500	37
TOTAL	53,942	100	57,393	100

**Table 1.4 - Age distribution of operational bus fleet (public transport) * ,
1992 - 1993**

Age group (Years)	as at 31st December 1992		as at 31st December 1993	
	Number	%	Number	%
< 4	505	32	541	32
4 < 10	592	37	702	42
10 < 16	402	25	361	22
16 < 18	54	3	59	4
18 < 20 * *	39	3	--	--
TOTAL	1,592	100	1,663	100

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

* * Buses over the age of 18 years are no longer licensed as from 1st January 1993

Fig. 2.1(a) - Evolution of vehicles registered (1983 - 1993)

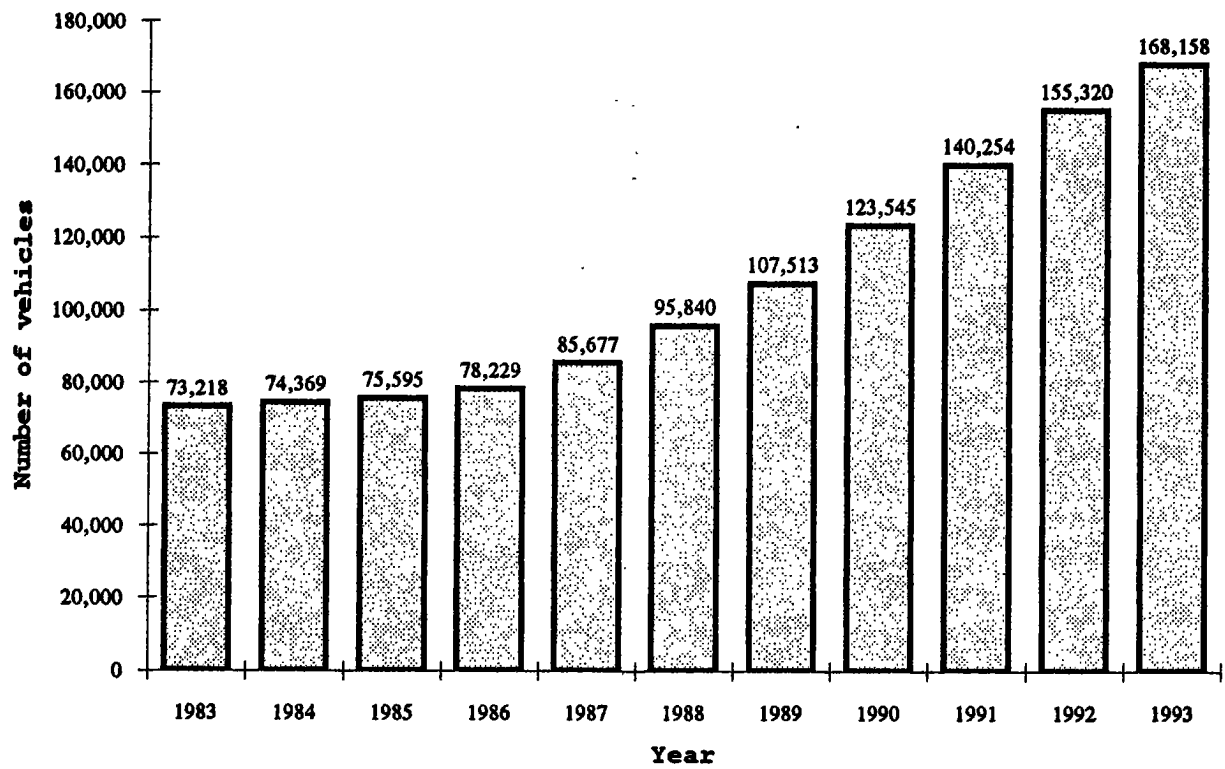


Fig. 2.1 (b) - Evolution of road accidents (1983 - 1993)

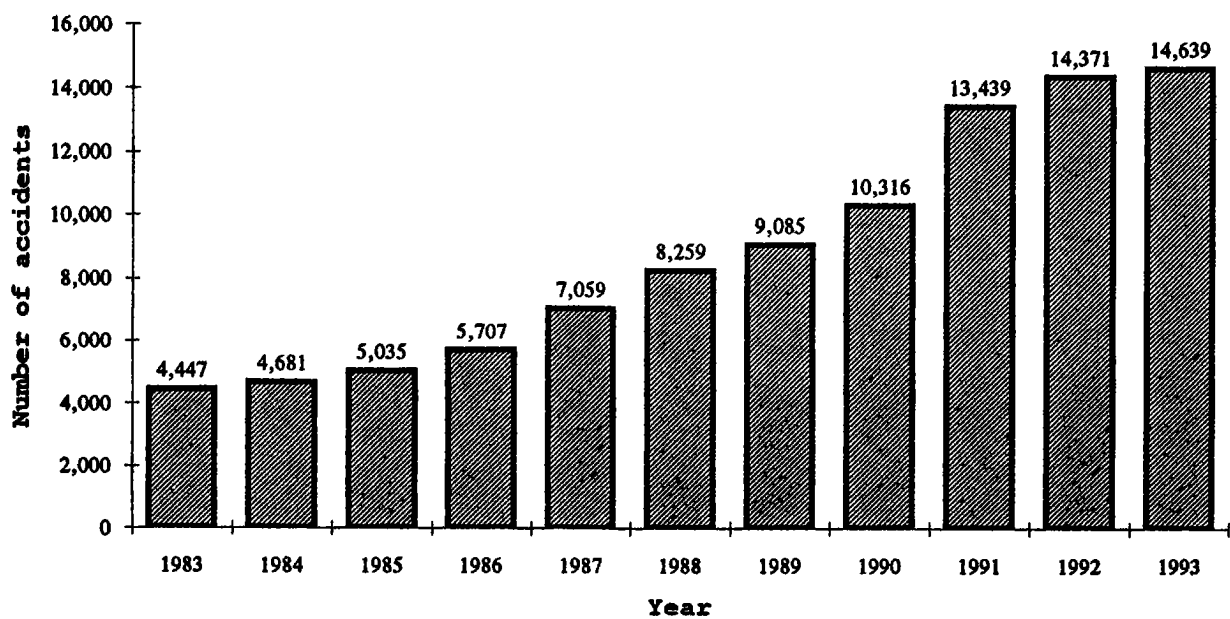


Table 2.1 - Road Traffic Accidents*, 1992-1993

	1992	1993	Change	
			Number	%
1. Road Traffic Accidents				
Number of accidents	14,371	14,639	268	(+ 1.8)
Rate per 100,000 population	1,369	1,377	N.A * *	N.A * *
Rate per 1,000 registered motor-vehicles	97	91	N.A * *	N.A * *
2. Motor-vehicles				
Number of vehicles involved	24,549	24,746	197	(+ 0.8)
Rate per 1,000 registered motor-vehicles	166	153	N.A * *	N.A * *
3. Casualties				
Total number of casualties	4,395	3,976	-419	(-9.5)
Fatal	119	155	36	(+ 30.3)
Seriously injured	378	273	-105	(-27.8)
Slightly injured	3,898	3,548	-350	(-9.0)

* Exclude number of accidents involving bicycles only

* * N.A : Not applicable

Table 2.2 - Road traffic accidents* and casualties
1983 - 1993

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
1. Road traffic accidents :											
Number	4,447	4,681	5,035	5,707	7,059	8,259	9,085	10,316	13,439	14,371	14,639
Rate per 100,000 population	459	479	511	574	703	812	893	1,007	1,297	1,369	1,377
Rate per 1,000 registered motor vehicles	61	63	67	74	87	91	89	90	102	97	91
2. Motor vehicle involved:											
Number	7,141	7,538	8,235	9,410	11,869	14,153	15,489	17,562	22,835	24,549	24,746
Rate per 1,000 registered motor vehicles	99	102	110	123	147	156	152	153	173	166	153
3. Casualties:											
Total number of casualties	2,531	2,329	2,685	2,834	3,294	3,004	3,141	3,575	4,025	4,395	3,976
of which											
Fatal	102	82	104	109	112	122	130	144	168	119	155
Seriously injured	305	253	266	226	255	282	250	315	296	378	273
Slightly injured	2,124	1,994	2,315	2,499	2,927	2,600	2,761	3,116	3,561	3,898	3,548
4. Fatality :											
rate per 100,000 population	10.5	8.4	10.6	11.0	11.2	12.0	12.6	13.9	16.2	11.3	14.6
rate per 1,000 registered motor vehicles	1.4	1.1	1.4	1.4	1.4	1.3	1.3	1.3	1.3	0.8	0.9
index **	4.0	3.5	3.9	3.8	3.4	4.1	4.1	4.0	4.2	2.7	3.9

* Exclude number of accidents involving bicycles only

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

Table 2.3 - Vehicles* involved in accidents by type of vehicle, 1992 - 1993

Type of vehicle	1992			1993		
	Jan-Jun	Jul-Dec	Year	Jan-Jun	Jul-Dec	Year
	Number	Number	Number %	Number	Number	Number %
Private car	4,742	5,408	10,150 40.5	4,979	5,513	10,492 41.7
Taxi car	849	992	1,841 7.3	851	1,105	1,956 7.8
Bus	1,078	1,108	2,186 8.7	982	1,063	2,045 8.1
Lorry	723	992	1,715 6.8	730	968	1,698 6.8
Van	1,490	1,828	3,318 13.2	1,640	1,860	3,500 13.9
Motor/Auto cycle	2,483	2,637	5,120 20.4	2,432	2,453	4,885 19.4
Pedal cycle	216	268	484 1.9	161	226	387 1.5
Other motor vehicle	61	148	209 0.8	53	117	170 0.7
Other non-motor vehicle	26	8	34 0.1	4	8	12 0.0
All vehicles	11,668	13,389	25,057 100.0	11,832	13,313	25,145 100.0

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

Table 2.4 - Casualties by class of road users, 1992 - 1993

Class of Road users	1992		1993	
	Number	%	Number	%
Pedestrian	1,188	27	1,196	30
Passenger	1,092	25	825	20
Driver	345	8	263	7
Rider (Auto / Motor Cycle)	1,435	33	1,342	34
Pedal cyclist	335	8	350	9
All road users	4,395	100	3,976	100

Fig. 2.2 - Vehicles involved in accidents by type of vehicle, 1993

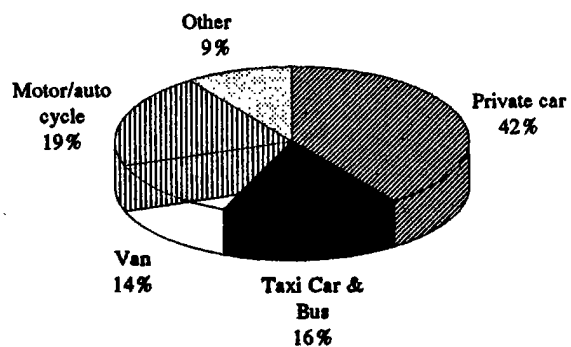


Fig. 2.3 - Casualties by class of road users, 1993

