

NEW YORK METROPOLITAN TRANSPORTATION COUNCIL

TRANSPORTATION **SAFETY** **REPORT**

1997

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NYMTC REGIONAL RECAPITULATION

	1995	1996	1997	1995/96 (%)	1996/97 (%)
MOTOR VEHICLE ACCIDENTS					
TOTAL NUMBER OF ACCIDENTS	172,967	169,808	173,168	-1.8%	2.0%
ACCIDENTS RESULTING IN FATALITY	867	760	846	-12.3%	11.3%
ACCIDENTS RESULTING IN INJURY	133,150	130,065	128,401	-2.3%	-1.3%
ACCIDENTS RESULTING IN PROPERTY DAMAGE	38,950	38,983	43,921	0.1%	12.7%
ACCIDENTS BY CONTRIBUTING HUMAN FACTORS	144,448	140,242	145,668	-2.9%	3.9%
ACCIDENTS BY CONTRIBUTING VEHICULAR FACTORS	9,618	8,908	8,517	-7.4%	-4.4%
ACCIDENTS BY CONTRIBUTING ENVIRONMENTAL FACTORS	27,166	30,604	25,378	12.7%	-17.1%
VEHICLES INVOLVED IN ALL TYPE OF ACCIDENTS	328,221	321,743	328,750	-2.0%	2.2%
VEHICLES INVOLVED IN ACCIDENTS RESULTING IN FATALITY	1,319	1,151	1,273	-12.7%	10.6%
VEHICLES INVOLVED IN ACCIDENTS RESULTING IN INJURY	250,077	244,470	241,922	-2.2%	-1.0%
VEHICLES INVOLVED IN ACCIDENTS RESULTING IN PROPERTY DAMAGE	76,825	76,122	85,555	-0.9%	12.4%
MOTOR VEHICLE ACCIDENTS INVOLVING MALE DRIVERS	201,794	197,348	199,657	-2.2%	1.2%
MOTOR VEHICLE ACCIDENTS INVOLVING FEMALE DRIVERS	93,082	92,763	97,316	-0.3%	4.9%
VEHICULAR/PEDESTRIAN ACCIDENTS AT INTERSECTION	11,107	10,756	10,592	-3.2%	-1.5%
VEHICULAR/PEDESTRIAN ACCIDENTS NOT AT INTERSECTION	6,504	6,163	5,982	-5.2%	-2.9%
TOTAL VEHICULAR/BICYCLE ACCIDENTS	7,138	6,955	7,094	-2.6%	2.0%
TRANSIT ACCIDENTS					
TRANSIT ACCIDENTS					
TOTAL	101	104	84	3.0%	-19.2%
FATALITIES	15	18	12	20.0%	-33.3%
INJURIES	538	379	328	-29.6%	-13.5%
RATIO PER MILLION RIDERS	0.059	0.061	0.049	-	-
RATIO PER MILLION VEHICLE MILES TRAVELLED	0.200	0.203	0.160	-	-
BUS TRANSIT ACCIDENTS					
TOTAL	63	53	46	-15.9%	-13.2%
FATALITIES	6	6	5	0.0%	-16.7%
INJURIES	323	302	227	-6.5%	-24.8%
RATIO PER MILLION RIDERS	0.132	0.117	0.104	-	-
RATIO PER MILLION VEHICLE MILES TRAVELLED	0.645	0.502	0.429	-	-
RAIL RAPID TRANSIT ACCIDENTS					
TOTAL	13	18	10	38.5%	-44.4%
FATALITIES	4	3	3	-25.0%	0.0%
INJURIES	126	62	98	-50.8%	58.1%
RATIO PER MILLION RIDERS	0.012	0.016	0.009	-	-
RATIO PER MILLION VEHICLE MILES TRAVELLED	0.041	0.058	0.031	-	-
SUBURBAN RAIL ACCIDENTS					
TOTAL	25	33	28	32.0%	-15.2%
FATALITIES	5	9	4	80.0%	-55.6%
INJURIES	89	15	3	-83.1%	-80.0%
RATIO PER MILLION RIDERS	0.186	0.243	0.202	-	-
RATIO PER MILLION VEHICLE MILES TRAVELLED	0.267	0.342	0.276	-	-

Source: New York State Department of Motor Vehicles
New York State Public Transportation Safety Board

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TABLE A

NEW YORK METROPOLITAN REGION CATEGORICAL RANKINGS

1997 MOTOR VEHICLE ACCIDENT DATA

TOTAL NUMBER OF MOTOR VEHICLE ACCIDENTS			ACCIDENTS RESULTING IN FATALITY		ACCIDENTS RESULTING IN INJURY		ACCIDENTS RESULTING IN PROPERTY DAMAGE		ACCIDENTS BY CONTRIBUTING HUMAN FACTORS		ACCIDENTS BY CONTRIBUTING VEHICULAR FACTORS						
1	Kings	28,768	1	Suffolk	147	1	Kings	25,559	1	Nas s au	9,659	1	Kings	25,843	1	Kings	2,321
2	Queens	26,690	2	Kings	134	2	Queens	21,849	2	Suffolk	8,459	2	Nas s au	23,200	2	Queens	1,753
3	Nas s au	26,599	3	Queens	123	3	Nas s au	16,828	3	Westches ter	5,466	3	Suffolk	21,393	3	New York	1,189
4	Suffolk	23,262	4	Nas s au	112	4	New York	15,711	4	Queens	4,718	4	Queens	20,706	4	Bronx	777
5	New York	18,731	5	New York	81	5	Suffolk	14,656	5	Kings	3,075	5	New York	17,645	5	Suffolk	679
6	Westches ter	14,097	6	Bronx	72	6	Bronx	10,904	6	New York	2,939	6	Bronx	9,936	6	Nas s au	499
7	Bronx	13,114	7	Westches ter	54	7	Westches ter	8,577	7	Orange	2,165	7	Westches ter	9,045	7	Westches ter	441
8	Orange	5,528	8	Orange	39	8	Richmond	4,133	8	Bronx	2,138	8	Orange	4,468	8	Richmond	274
9	Richmond	5,125	9	Dutchess	31	9	Orange	3,324	9	Dutchess	1,873	9	Richmond	4,180	9	Orange	209
10	Rockland	4,748	10	Rockland	26	10	Rockland	2,998	10	Rockland	1,724	10	Rockland	4,108	10	Dutchess	160
11	Dutchess	4,733	11	Richmond	14	11	Dutchess	2,829	11	Richmond	978	11	Dutchess	3,769	11	Rockland	156
12	Putnam	1,773	12	Putnam	13	12	Putnam	1,033	12	Putnam	727	12	Putnam	1,375	12	Putnam	59
Total		173,168	Total		846	Total		128,401	Total		43,921	Total		145,668	Total		8,517

ACCIDENTS BY CONTRIBUTING ENVIRONMENTAL FACTORS			VEHICLES INVOLVED IN ALL TYPE OF ACCIDENTS			VEHICLES INVOLVED IN ACC. RESULTING IN FATALITY			VEHICLES INVOLVED IN ACC. RESULTING IN INJURY			VEHICLES INVOLVED IN ACC. RESULTING IN PROP. DAMAGE			ACCIDENTS INVOLVING MALE DRIVERS		
1	Nas s au	4,393	1	Kings	54,609	1	Suffolk	235	1	Kings	48,066	1	Nas s au	19,603	1	Kings	36,384
2	Suffolk	4,215	2	Nas s au	53,356	2	Kings	195	2	Queens	42,247	2	Suffolk	16,606	2	Queens	33,041
3	Queens	3,125	3	Queens	52,143	3	Queens	185	3	Nas s au	33,576	3	Westches ter	10,161	3	Nas s au	28,743
4	Kings	2,852	4	Suffolk	45,322	4	Nas s au	177	4	Suffolk	28,481	4	Queens	9,711	4	New York	24,535
5	Westches ter	2,286	5	New York	33,305	5	New York	108	5	New York	27,168	5	Kings	6,348	5	Suffolk	24,442
6	Orange	1,736	6	Westches ter	26,381	6	Bronx	98	6	Bronx	19,908	6	New York	6,029	6	Bronx	16,169
7	New York	1,600	7	Bronx	24,363	7	Westches ter	81	7	Westches ter	16,139	7	Bronx	4,357	7	Westches ter	14,334
8	Bronx	1,445	8	Richmond	10,028	8	Orange	63	8	Richmond	8,017	8	Orange	3,425	8	Richmond	5,658
9	Dutchess	1,338	9	Orange	9,259	9	Dutchess	50	9	Orange	5,771	9	Rockland	3,191	9	Orange	5,218
10	Rockland	1,034	10	Rockland	8,960	10	Rockland	42	10	Rockland	5,727	10	Dutchess	2,940	10	Rockland	4,954
11	Richmond	767	11	Dutchess	7,995	11	Putnam	21	11	Dutchess	5,005	11	Richmond	1,993	11	Dutchess	4,433
12	Putnam	587	12	Putnam	3,029	12	Richmond	18	12	Putnam	1,817	12	Putnam	1,191	12	Putnam	1,746
Total		25,378	Total		328,750	Total		1,273	Total		241,922	Total		85,555	Total		199,657

ACCIDENTS INVOLVING FEMALE DRIVERS			VEHICULAR/PEDESTIAN ACC. AT INTERSECTION		VEHICULAR/PEDESTIAN ACC. NOT AT INTERSECTION		VEHICULAR/BICYCLE ACCIDENTS				
1	Nas s au	20,801	1	New York	2,977	1	Kings	1,495	1	Kings	1,856
2	Suffolk	17,866	2	Kings	2,909	2	New York	1,193	2	New York	1,666
3	Queens	12,954	3	Queens	1,769	3	Queens	930	3	Queens	1,009
4	Kings	11,080	4	Bronx	1,356	4	Bronx	781	4	Bronx	728
5	Westches ter	9,948	5	Nas s au	578	5	Nas s au	448	5	Nas s au	646
6	Bronx	5,086	6	Westches ter	362	6	Westches ter	361	6	Suffolk	601
7	New York	4,645	7	Suffolk	283	7	Suffolk	353	7	Westches ter	211
8	Orange	3,593	8	Richmond	188	8	Richmond	148	8	Richmond	145
9	Rockland	3,478	9	Rockland	61	9	Rockland	98	9	Orange	90
10	Richmond	3,469	10	Orange	59	10	Orange	83	10	Dutchess	71
11	Dutchess	3,225	11	Dutchess	45	11	Dutchess	68	11	Rockland	63
12	Putnam	1,171	12	Putnam	5	12	Putnam	24	12	Putnam	8
Total		97,316	Total		10,592	Total		5,982	Total		7,094



INTRODUCTION

The New York Metropolitan Transportation Council (NYMTC) is an association of governments and transportation providers which serves as the Metropolitan Planning Organization (MPO) for New York City, Long Island and lower Hudson Valley. In its role as an MPO, the Council is mandated to develop and regularly update a Regional Transportation Plan for its area. The current update of the plan is undergoing public review and should be adopted by the Council September, 1999. The plan identifies nine critical issue areas and goals and objectives for addressing the issues. Plan issue areas include specific performance measures to monitor the progress toward achieving the relevant goals and objectives. The safety critical issue area requires an assessment of accidents on the roadway and transit portions of the transportation system, utilizing designated transportation plan safety performance measures and other indicators. The New York State Department of Motor Vehicles (DMV) and the New York State Public Transportation Safety Board (PTSB) provide motor vehicle, bicycle, pedestrian, and transit accident data, respectively, for the 12 county downstate New York metropolitan area.

This publication is organized into two major parts:

- Part One contains a written analysis of different types of accidents, which are summarized in this report.
- Part Two includes two segments: various accident charts and tabular historic accident data.

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I OVERVIEW

SAFETY ON THE HIGHWAY AND TRANSIT SYSTEMS

Safety for motor vehicle, bicycle, pedestrian, and transit travel is the primary concern for operators of transportation facilities. One of the Regional Transportation Plan's goals is to improve the safety and security of the highway and mass transportation systems and to minimize the risk of making trips in the New York Metropolitan region. This report assesses accident trends between 1985 and 1997 in the following counties: Dutchess, Nassau, Orange, Putnam, Rockland, Suffolk, Westchester, and the City of New York.

Total annual motor vehicle accidents are presented in Table 1 on page 27, according to all major vehicle types: Passenger Car, Motorcycle, Bus, Taxi, School Bus, Emergency Vehicle, Truck, Tractor Trailer, Towing Vehicle, and Moped. The Department of Motor Vehicles has a significant spectrum of information, however, this report contains only a fraction of that data, offered in tables 1 to 19. Table A on page ii presents 1997 categorical rankings of different types of motor vehicle accidents throughout the New York Metropolitan region.

Aside from motor vehicle accidents, this report also contains transit accident statistics of the Metropolitan Transportation Authority (MTA) modes for the years between 1985 and 1997.

Figure 1 on page 9 shows annual motor vehicle accident changes in the New York Metropolitan twelve county region between 1985 and 1997. Fortunately, much progress has been made in reducing the number of total accidents on the New York Metropolitan region's highways since 1989. The number of accidents peaked in 1989, then subsequently dropped by 22 percent (or 47,000) in 1996. Most of the decrease occurred in the New York suburban counties. In 1997 the total number of accidents increased by 2 percent. The New York Metropolitan region, New York City, and suburban counties recorded these total number of accidents: 173,168; 92,428, and 80,740, respectively, in 1997. The number of accidents in suburban areas for 1995 is the lowest since 1985, while during 1997 New York City had the lowest number of accidents since 1985. As Figure 1 illustrates, New York State and the New York Metropolitan region had similar trends in terms of the number of total accidents between 1985 and 1997.

The MTA rail and bus properties included in this report are:

- MTA New York City Subway*
- MTA Staten Island Railway*
- MTA Metro-North Railroad*
- MTA Long Island Rail Road*
- MTA New York City Bus*
- MTA Long Island Bus*

The MTA transit operations, which account for 93 percent of downstate New York transit ridership, have had less than 140 passenger accidents per year throughout the 1985-1997 period. There has been an average of 19 fatalities per year for this 13 year period.

II MOTOR VEHICLE



1. ACCIDENTS RESULTING IN: FATALITY, INJURY, AND PROPERTY DAMAGE

Motor vehicle accidents are classified in terms of severity: Fatal, Nonfatal Injury, and Property Damage (over \$1,000). During the time period between 1996 - 1997, the following changes in accident data were observed:

Fatal

- In 1997, 846 out of the 173,168 motor vehicle crashes, resulted in a fatality in the New York Metropolitan region. Although the number of fatal accidents rose by 11.3 percent since 1996, much progress has been made in reducing the number of deaths on the region's highways since 1990, when there were 1,171 fatalities. The number of fatal accidents in the New York suburbs and in New York City rose from 380 and 380 to 422 and 424, respectively, during the 1996-1997 time period. Tables 2A and 2B, as well as corresponding Figures 2A and 2B show fatality rates, per 100,000 population and licensed drivers, respectively. It is noticeable that the fatality rates per population are highest in the suburbs and the lowest in New York City, but the rates per licensed drivers are the opposite (highest in New York City and lowest in the suburbs).

Injury

- Nonfatal injury vehicle accidents accounted for 74 percent of total accidents in 1997. In contrast to fatal accidents, accidents resulting in injury decreased by approximately 1 percent between 1996 and 1997 in the New York Metropolitan region due to a decrease of 3.6 percent in the New York suburbs. New York City injury crashes increased by less than 1 percent during the 1996 - 1997 time

period. (See Table 3 and Figure 3)

Property Damage

- Over 25 percent of the total number of accidents in the New York Metropolitan region in 1997 resulted in property damage. There were almost 5,000 more property damage accidents in 1997 than in 1996. A significant increase of 27 percent was noticed in New York suburbs, while New York City experienced a decrease of 9 percent of property damage crashes in the same time period. (See Table 4 and Figure 4)

2. CONTRIBUTING FACTORS: HUMAN, ENVIRONMENTAL, AND VEHICULAR

- The human factor contributed to 84 percent of total accidents in 1997. The number of accidents resulting from human factors rose from 1996 to 1997 by almost 4 percent in the New York Metropolitan region. Driver inattention, failure to yield right-of-way, following too closely, and unsafe speed accounted for 16, 16, 13, and 8 percent, respectively, of all accidents attributed to human factors (See Figure 6). In 1997, the drivers were intoxicated in only 2 percent of all human factor related accidents in New York Metropolitan region.
- The environmental roadway condition is the second highest contributing factor, causing 15 percent of total accidents in the New York Metropolitan region in 1997. In 1997 slippery pavement, and obstructed/limited view accounted for 60, and 13 percent, respectively, of all accidents attributable to environmental factors (See Figure 10).
- The third highest contributing factor is vehicular, causing 5 percent of total accidents in 1997. The vehicular factor contributed to fewer accidents in the New York suburb areas than in New York City. The number of accidents attributed to this factor decreased by 8 percent in New York City, but New York suburbs experienced an increase of 8 percent since 1996. Defective brakes, tire failure/inadequate, and steering failure accounted for 16, 6, and 3 percent, respectively, of all vehicular accidents attributed to the vehicular factor in 1997 (See Figure 8).

3. PEOPLE AND VEHICLES

This section offers statistics about the sex and age of the drivers, pedestrians, and bicyclists involved in motor vehicle crashes.

A. Accidents involving male and female drivers and their age

According to the summary of motor vehicle crashes, the 1996-1997 time period indicates almost 200,000 and over 97,000 accidents involving male and female drivers, respectively, in the New York Metropolitan region. Many

more (almost double) accidents, involving female drivers, occurred in the New York suburbs than in New York City, in 1997. In contrast, accidents involving male drivers happened more often in New York City than in the New York suburbs. This trend has been observed since 1985, in both the New York suburbs and New York City.

- Male and female drivers 30 to 39 years old have had the highest number of vehicle crashes for three focus years: 1980, 1990, and 1997 in the New York Metropolitan region (See Tables 14, 15, 16, and Figures 17 - 23). Drivers aged 65 and over had almost 22,500 accidents in the New York Metropolitan region in 1997. Male and female drivers below 20 had over 27,000 vehicle crashes in the New York Metropolitan region during 1997. According to National Center of Health Statistics, motor vehicle crashes are the leading cause of death for 15 to 20 year olds.

B. Vehicular/Pedestrian Accidents at an intersection and non-intersection

- The number of pedestrian accidents occurring at non-freeway intersections is much higher than that of pedestrian accidents occurring mid block for the New York Metropolitan region. This is particularly evident in New York City, where 67 percent of all vehicle/pedestrian accidents occurred at an intersection. The number of vehicle pedestrian crashes at suburban intersections and non-intersections have become relatively even in number during the 1985-1997 time period and accounts for only 17 percent of regional vehicle/pedestrian accidents. (See Figure 24-25, and

C. Motor Vehicular/Bicycle accidents



- Motor vehicles and bicyclists have been competing for road space for many years. The first automobile crash in the United States occurred in New York City in 1896, when a motor vehicle collided with a bicycle rider, according to *Famous First Facts*, by Joseph Kane.
- The 31 bicyclist deaths in 1997 accounted for 3.7 percent of all traffic fatalities in the New York Metropolitan region, during the year. Bicyclist fatalities occurred more frequently in New York City than in New York suburbs in 1997. Almost 7,100 bicyclist accidents accounted for 4.1 percent of all motor vehicle crashes that occurred in the New York Metropolitan region during the 1996-1997 time period. More than 5,400 cyclists had accidents involving motor vehicles in New York City in 1997, reaching the highest number since 1985. In 1985 the number of bicycle crashes was the highest, reaching 2,597 accidents

in the suburban counties, and over 7,700 in the New York Metropolitan region, and over 10,700 in the State of New York (See Table 19 - 20 and Figure 26 - 27).

4. VEHICLES

The total number of vehicles involved in accidents varies annually, similar to the total number of accidents. In the 1985 - 1997 time period, the peak number of vehicles involved in accidents was 237,927 in New York City and 434,193 in the New York Metropolitan region, in 1998. The New York suburban data indicate that the highest number (197,223) of vehicles involved in accidents was in 1989. In 1997, there was an average of 1.9 vehicles per accident in both New York City and the New York suburbs.

A. Vehicles involved in accidents resulting in fatality

- The trend of the number of vehicles involved in crashes resulting in a fatality was similar to the trend of total accidents during the 1985-1997 time period (described on page 2) for the New York Metropolitan region. The number of vehicles changed annually in relation to total accidents. (See Table 9)
- As a consequence of the lowest number of fatal accidents in 1996, during the 1985-1997 time period, statistics also show the lowest number of vehicles involved in fatal accidents in the same year. The average number of vehicles per fatal accident was 1.4 for the City and 1.6 for the suburban counties in 1997.

B. Vehicles involved in accidents resulting in injury

- Because of a decrease of the number of injury accidents, the number of vehicles involved in injury crashes dropped to 241,922, in the New York Metropolitan region in 1997 (See Table 10).
- Data indicate that the number of vehicles involved in injury accidents were the highest during the years 1988-1991, of the 1985-1997 time period .

C. Vehicles involved in accidents resulting in property damage

- Vehicle crashes resulting in property damage increased in the 1996-1997 time period in the New York Metropolitan region. The number of vehicles involved in this type of accident also rose during the same time period (See Table 11).
- There were 28,438 vehicles involved in property damage accidents in New York City in 1997, while in the 1985-1990 time period, the data were consistently higher than 60,000 each year. Over 57,000 vehicles were involved in property damage crashes in the New York suburbs, in 1997. This number indicates an increase of 27 percent since 1996. (See Figure14).

III TRANSIT



Transit accidents also play a role in transportation customer safety, but to a much lesser extent in terms of the total number of accidents. Although there are other independent transit operators in the region, this transit accident data covers the largest group of transit properties in the New York Metropolitan Region, the Metropolitan Transportation Authority (MTA). Statistics describing transit accidents have been derived from the New York State Public Transportation Safety Board. Table 22 and Table 23 present Transit Accident Ratios per million riders, and per million vehicle miles traveled, while Table 21 shows the total number of accidents in the MTA portion of the region in the 1985-1997 time period (See also Figure 28).

1. RAIL ACCIDENTS

This report includes accident data for the following transit operators: MTA Long Island Rail Road (LIRR), MTA New York City Subway, MTA New York City Bus, MTA Metro-North Railroad (MNR), and MTA Staten Island Railway. These accidents are reported by six different criteria: passenger fatality, multiple injury, evacuation, grade crossing, collision, and derailment.

- In 1997, MTA Long Island Rail Road (transporting 75.8 million passengers) experienced the highest number of total accidents (22) of all rail operators. Half (11) of the accidents were caused by derailment. Grade crossing is the second highest type of accident on LIRR. Long Island Rail Road has had no passenger fatalities since 1986 (See Table 24 and Figure 29).
- There were 67 passenger fatalities on the New York City Subway in the period between 1985-1997. The peak year was 1990, in terms of the total number of accidents, but the highest number of passenger fatalities occurred in 1987 and 1991 (see Table 25 and Figure 30). In 1997 there were 2 passenger fatalities as a result of falling from the train and unsafe actions.
- Metro-North Railroad (MNR) has a much lower number of accidents than the

two above mentioned operators. In the time period between 1985 and 1997, there was only one passenger fatality and two multiple injuries on the MNR. The annual number of total accidents for Metro-North Railroad was fewer than 10 since 1985 (See Table 26 and Figure 31).

- The data in Table 27 reveal that the safest rail transit of the MTA properties is the Staten Island Railway. Very few (10) accidents happened on this mode during the period between 1985 and 1997. Criteria such as passenger fatality, multiple injury, evacuation, and grade crossing did not occur during this time period. Collision and derailment were the only criteria related to the accidents on the Staten Island Railway. In 1997, there were no accidents on this rail operation. (See Figure 32). The Staten Island Railway is the smallest rail operation in terms of system size and ridership.

2. BUS ACCIDENTS

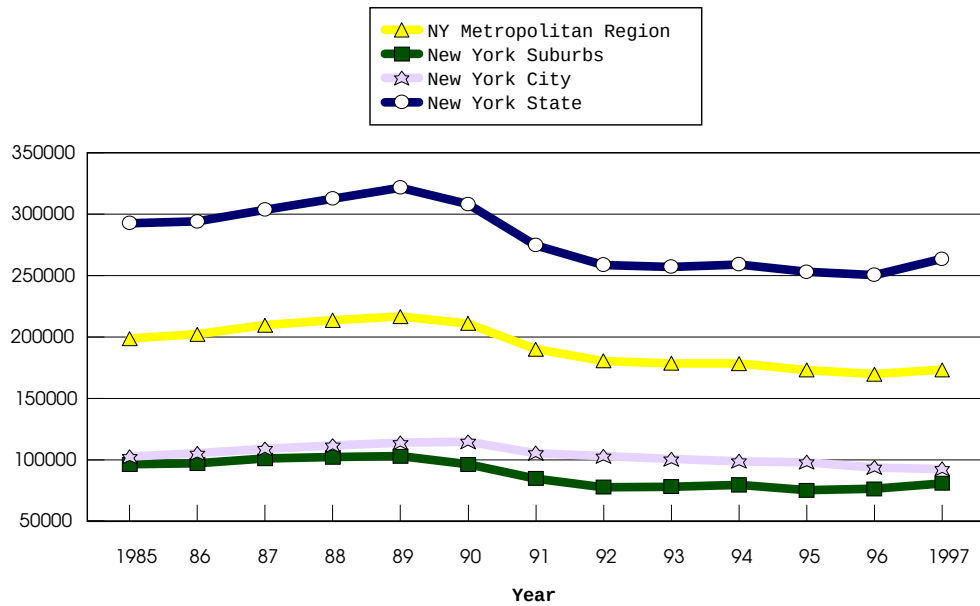
There are three criteria types (fatality, multiple injury, and mechanical failure), which have been reported to identify bus transit accidents.

- The New York City Bus transported 422.6 million passengers in 1997. In the same year, 43 passenger accidents occurred on the NYC Bus operation. The number of fatalities decreased by 17 percent, from 1996, but multiple injuries have increased between 1996 and 1997 by 11 percent, reaching 5 fatalities and 30 multiple injuries. In 1997, 7 percent fewer accidents happened on this mode than in 1996. (See Table 28 and Figure 33)
- In 1997 Long Island Bus, with ridership of 19.6 million, had 3 accidents. The annual number of total accidents on this mode vary from 2 to 9 for different years in the 1985-1997 time period. There were no fatal accidents reported in the last five years (See Table 29 and Figure 34).

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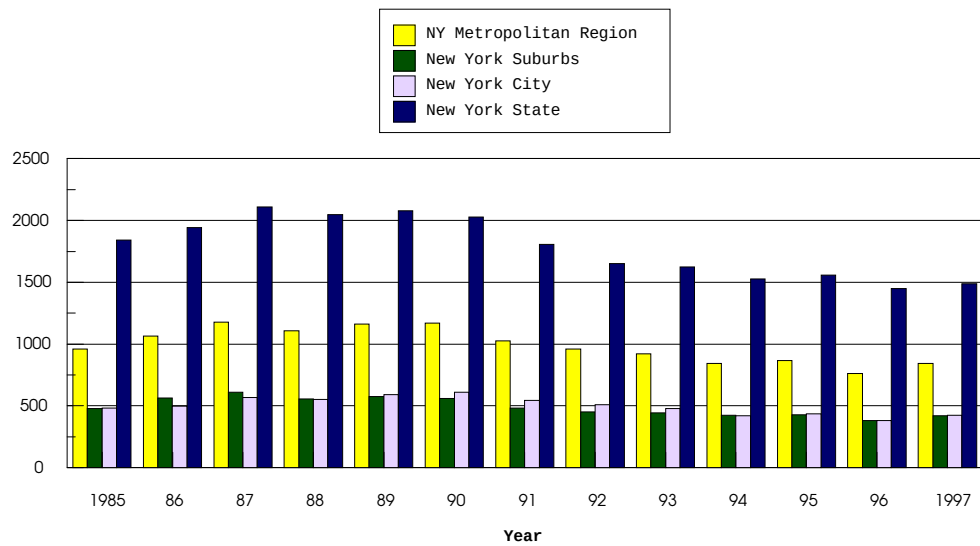


Figure 1
TOTAL NUMBER OF MOTOR VEHICLE ACCIDENTS



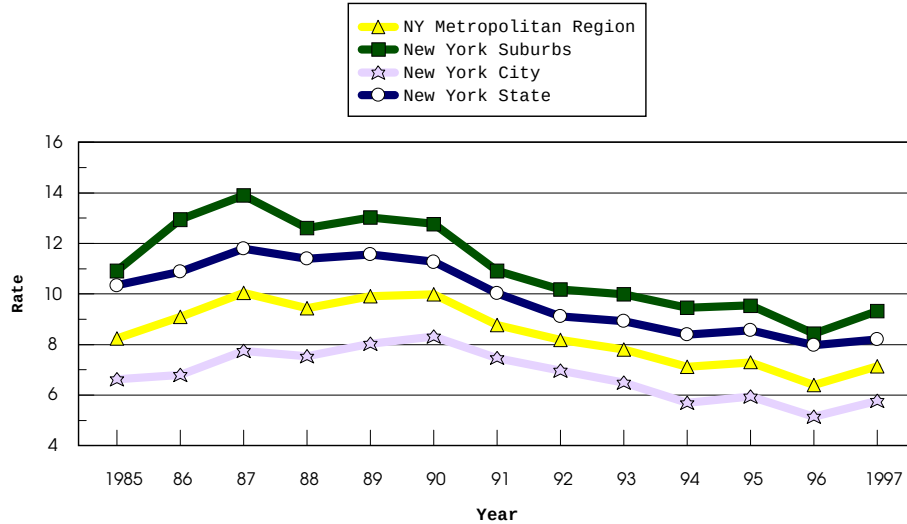
Source: NYS Dept. of Motor Vehicles

Figure 2
MOTOR VEHICLE ACCIDENTS RESULTING IN FATALITY



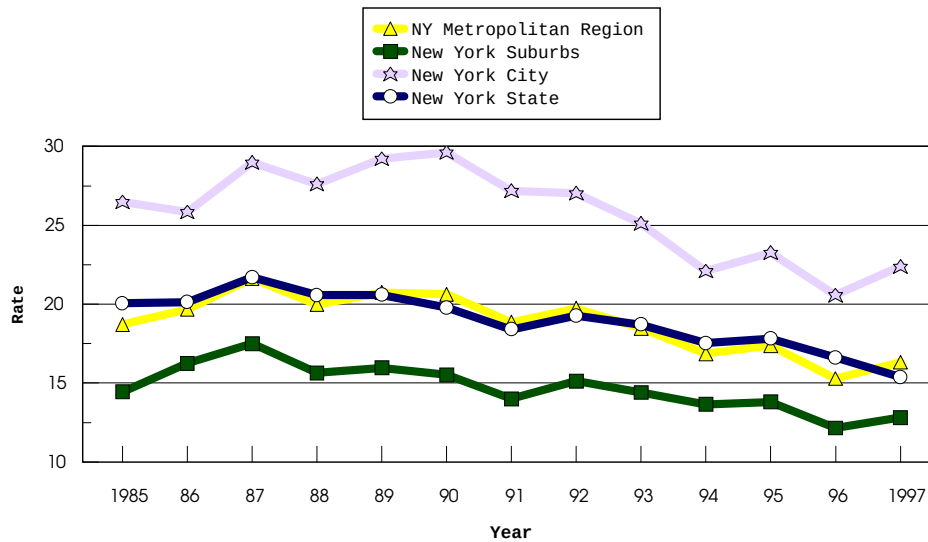
Source: NYS Dept. of Motor Vehicles

Figure 2A
MOTOR VEHICLE FATALITY RATE
PER 100,000 POPULATION



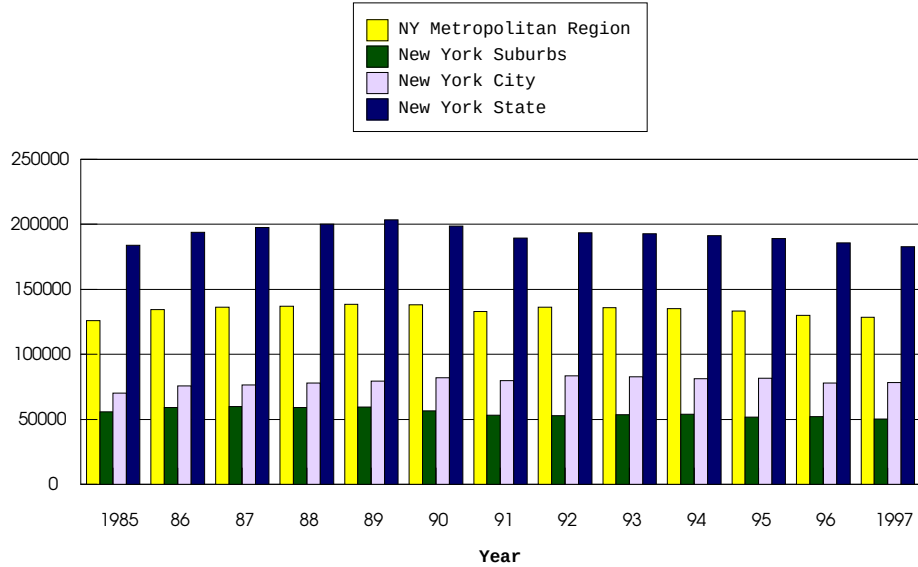
Source: NYMTC Estimates

Figure 2B
FATALITY RATE
PER 100,000 LICENSED DRIVERS



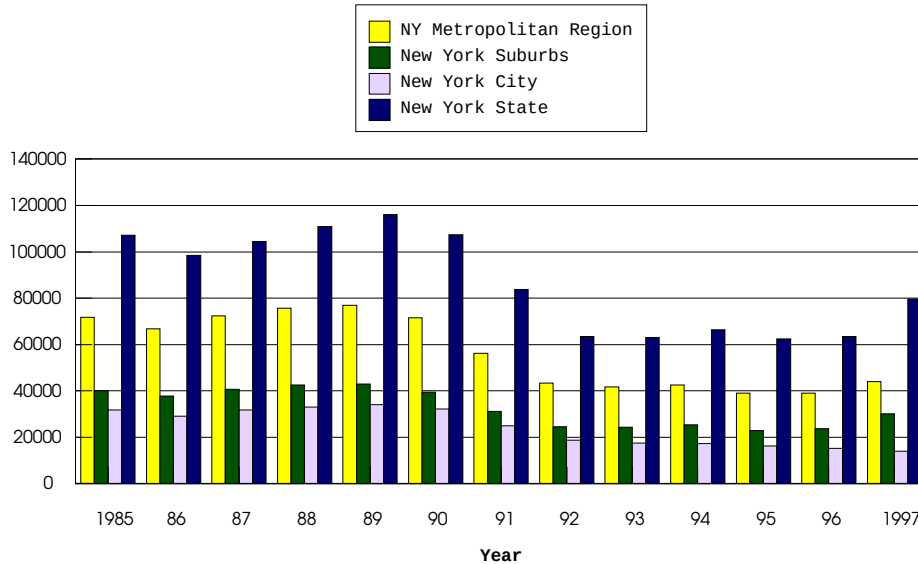
Source: NYMTC Estimates

Figure 3
MOTOR VEHICLE ACCIDENTS
RESULTING IN INJURY



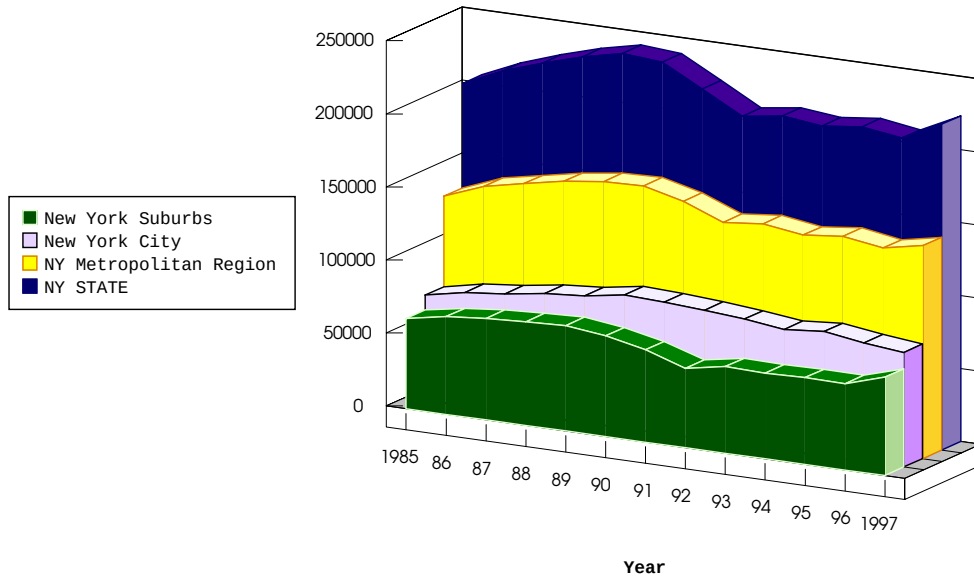
Source: NYS Dept. of Motor Vehicles

Figure 4
MOTOR VEHICLE ACCIDENTS
RESULTING IN PROPERTY DAMAGE



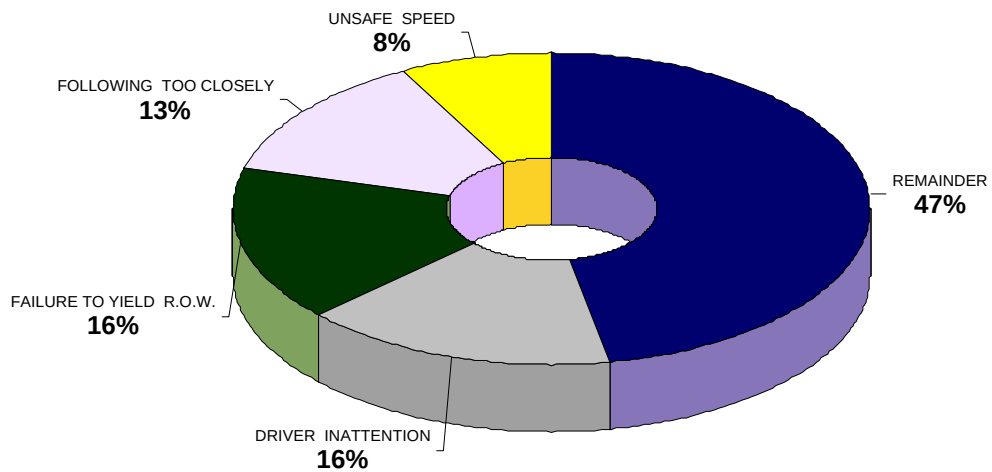
Source: NYS Dept. of Motor Vehicles

Figure 5
MOTOR VEHICLE ACCIDENTS
BY CONTRIBUTING HUMAN FACTORS



Source: NYS Dept. of Motor Vehicles

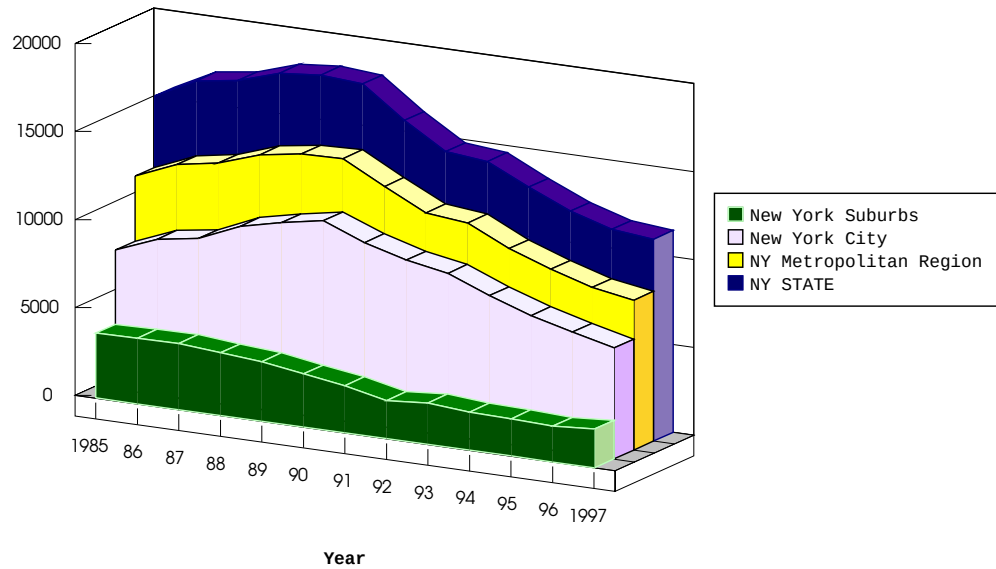
FIGURE 6
MOTOR VEHICLE ACCIDENTS
BY CONTRIBUTING HUMAN FACTORS
1997 NEW YORK METROPOLITAN REGION



Source: NYS Dept. of Motor Vehicles

R.O.W. - Right of Way

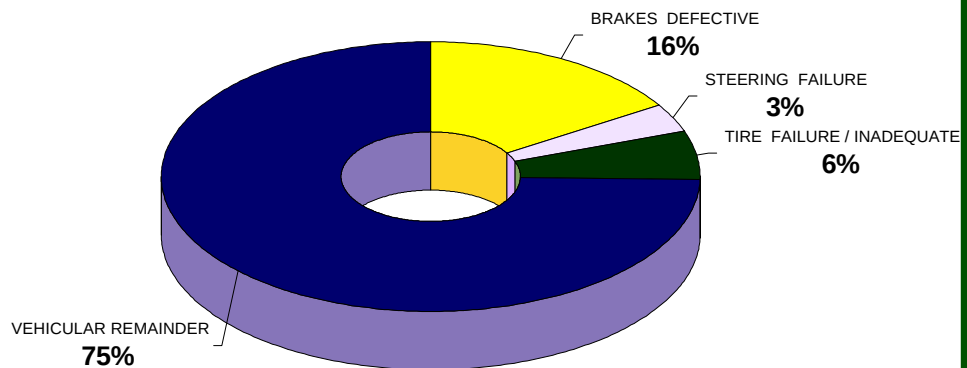
Figure 7
MOTOR VEHICLE ACCIDENTS
BY CONTRIBUTING VEHICULAR FACTORS



Source: NYS Dept. of Motor Vehicles

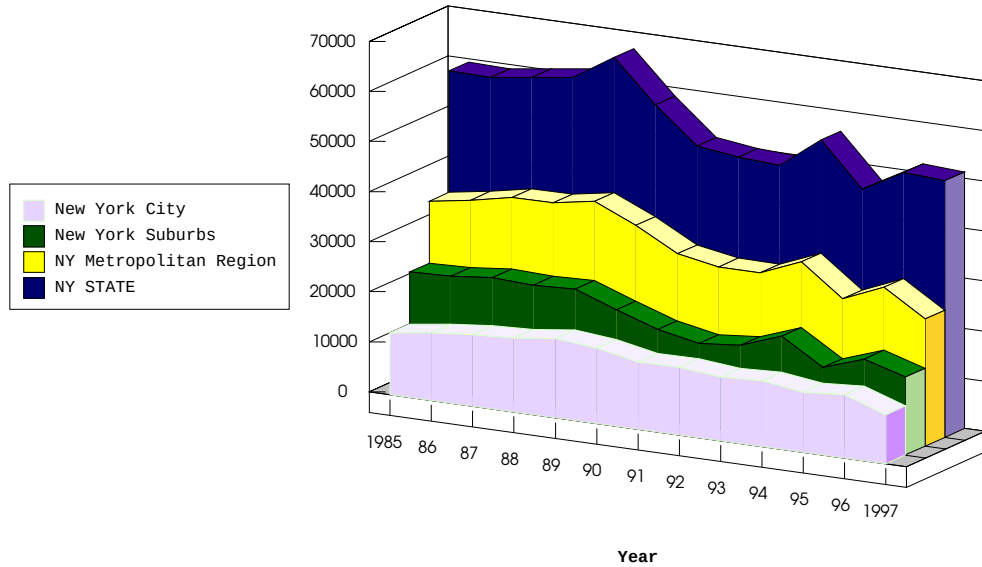
FIGURE 8
MOTOR VEHICLE ACCIDENTS
BY CONTRIBUTING VEHICULAR FACTORS

1997 NEW YORK METROPOLITAN REGION



Source: NYS Dept. of Motor Vehicles

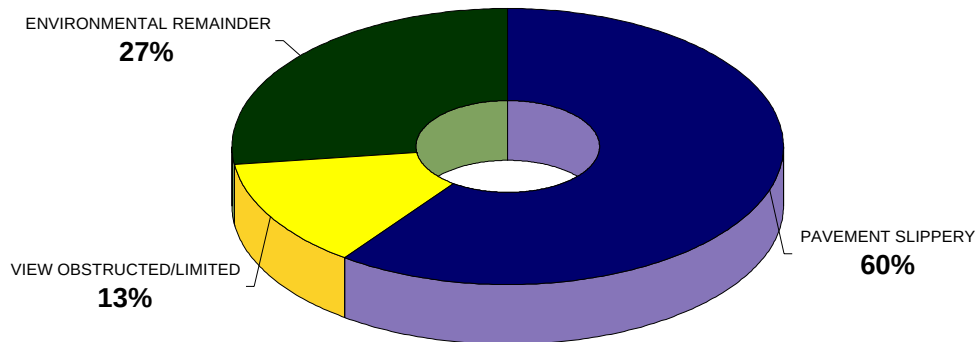
Figure 9
MOTOR VEHICLE ACCIDENTS
BY CONTRIBUTING ENVIRONMENTAL FACTORS



Source: NYS Dept. of Motor Vehicles

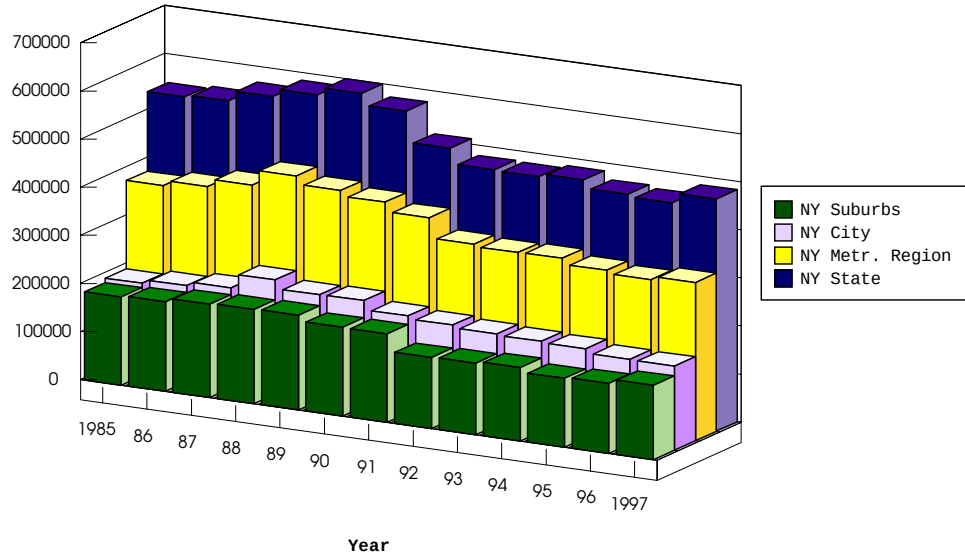
FIGURE 10
MOTOR VEHICLE ACCIDENTS
BY CONTRIBUTING ENVIRONMENTAL FACTORS

1997 NEW YORK METROPOLITAN REGION



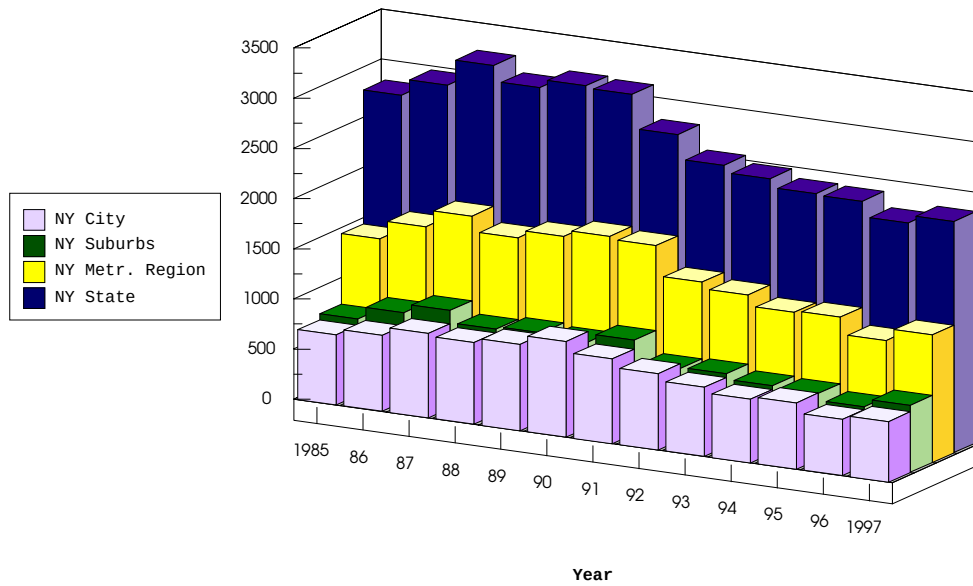
Source: NYS Dept. of Motor Vehicles

Figure 11
TOTAL NUMBER OF VEHICLES
INVOLVED IN MOTOR VEHICLE ACCIDENTS



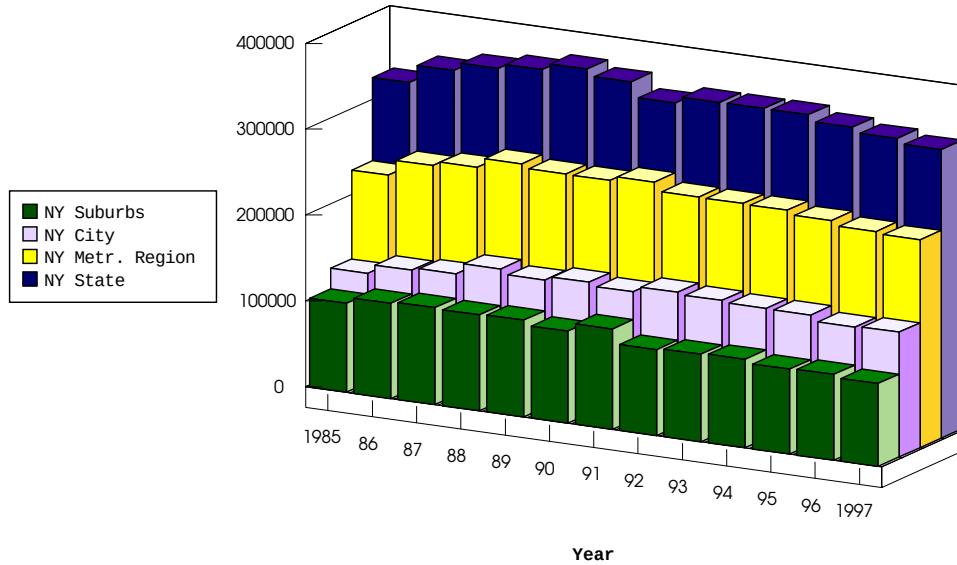
Source: NYS Dept. of Motor Vehicles

Figure 12
TOTAL NUMBER OF VEHICLES
INVOLVED IN ACCIDENTS RESULTING IN FATALITY



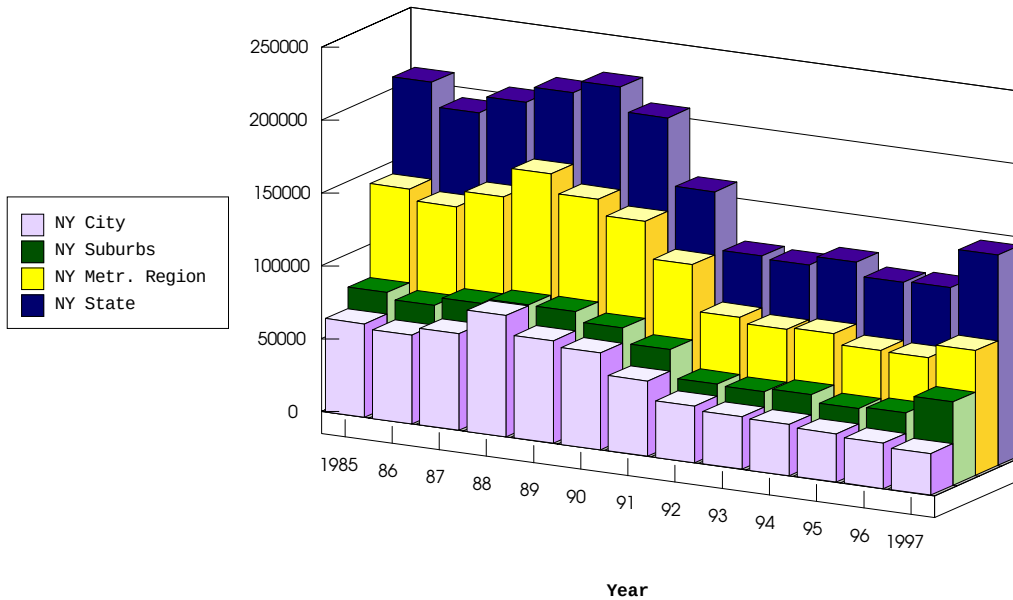
Source: NYS Dept. of Motor Vehicles

Figure 13
TOTAL NUMBER OF VEHICLES
INVOLVED IN ACCIDENTS RESULTING IN INJURY



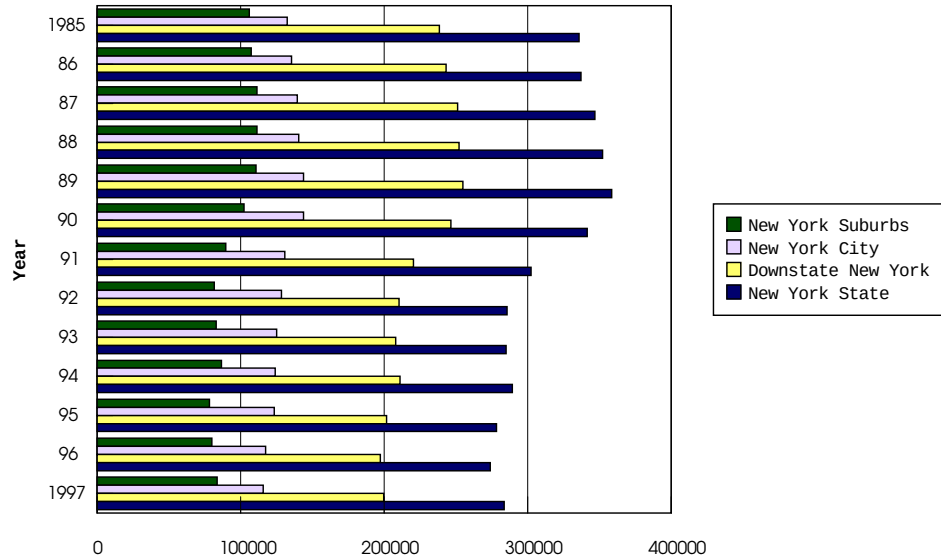
Source: NYS Dept. of Motor Vehicles

Figure 14
TOTAL NUMBER OF VEHICLES INVOLVED
IN ACCIDENTS RESULTING IN PROPERTY DAMAGE



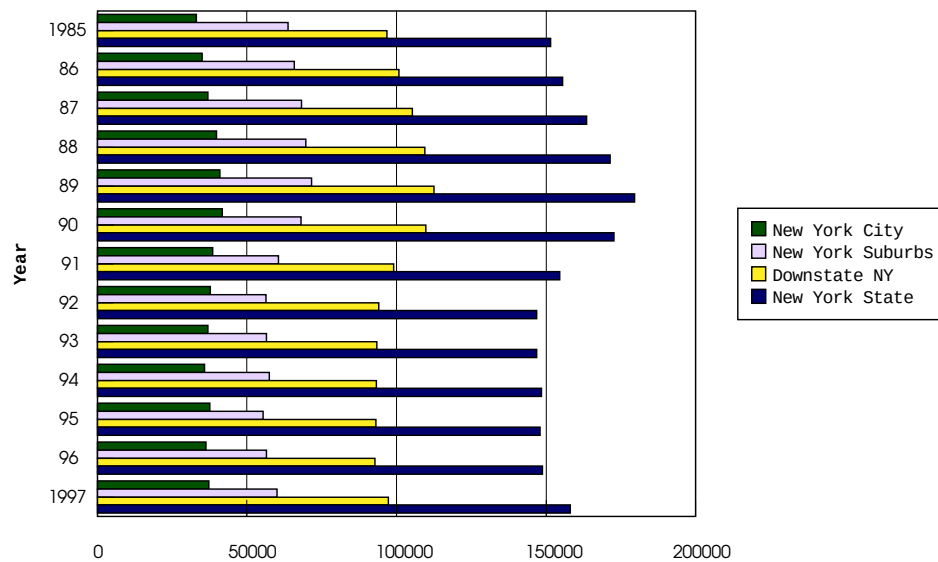
Source: NYS Dept. of Motor Vehicles

Figure 15
MOTOR VEHICLE ACCIDENTS
INVOLVING MALE DRIVERS



Source: NYS Dept. of Motor Vehicles

Figure 16
MOTOR VEHICLE ACCIDENTS
INVOLVING FEMALE DRIVERS



Source: NYS Dept. of Motor Vehicles

FIGURE 17
1980 MOTOR VEHICLE ACCIDENTS
BY AGE OF FEMALE DRIVER

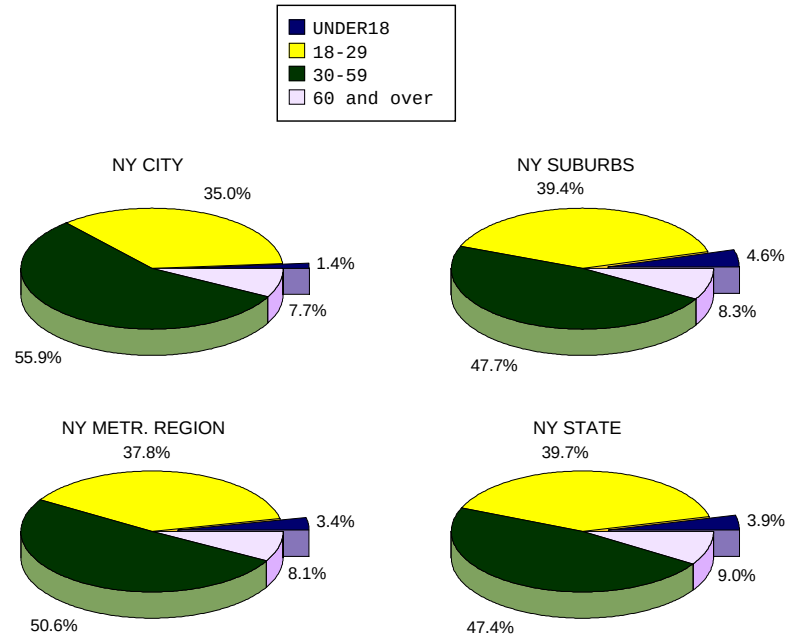


FIGURE 18
1980 MOTOR VEHICLE ACCIDENTS
BY AGE OF MALE DRIVER

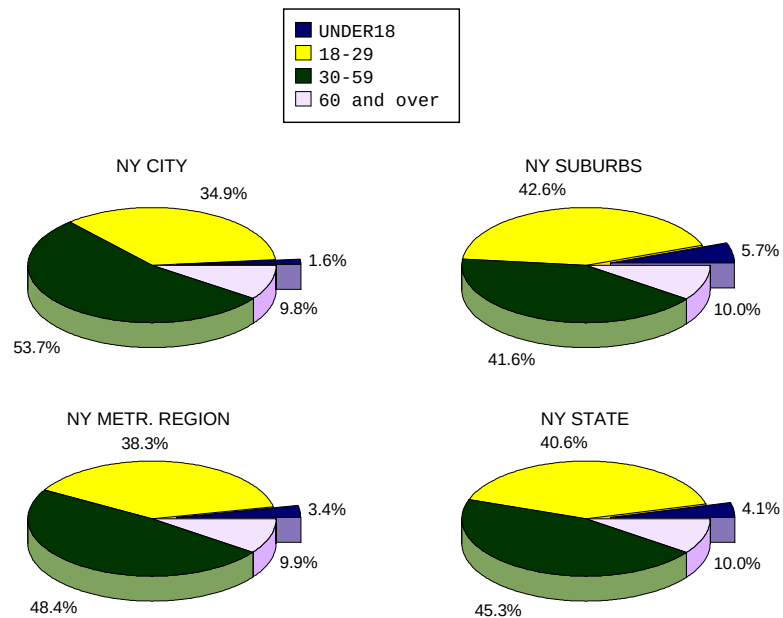


FIGURE 19
1990 MOTOR VEHICLE ACCIDENTS
BY AGE OF FEMALE DRIVER

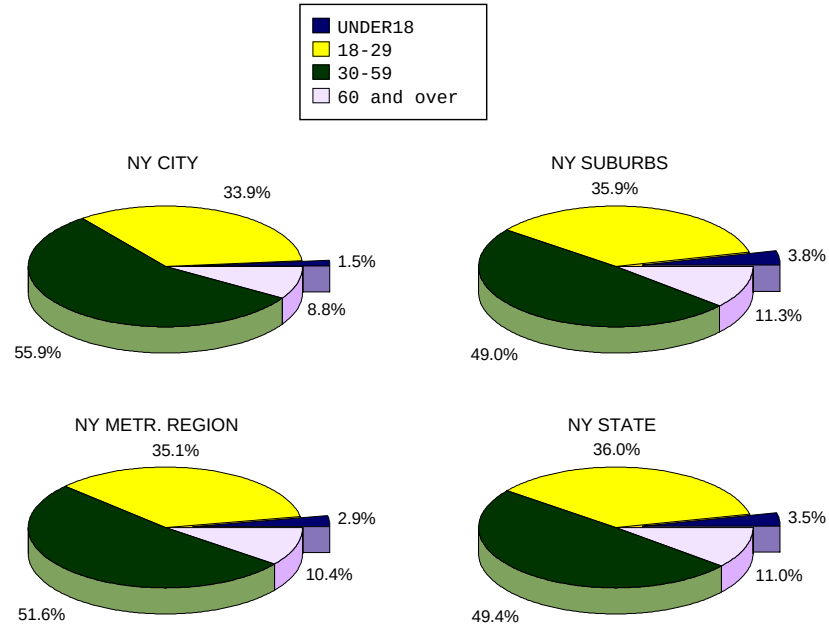


FIGURE 20
1990 MOTOR VEHICLE ACCIDENTS
BY AGE OF MALE DRIVER

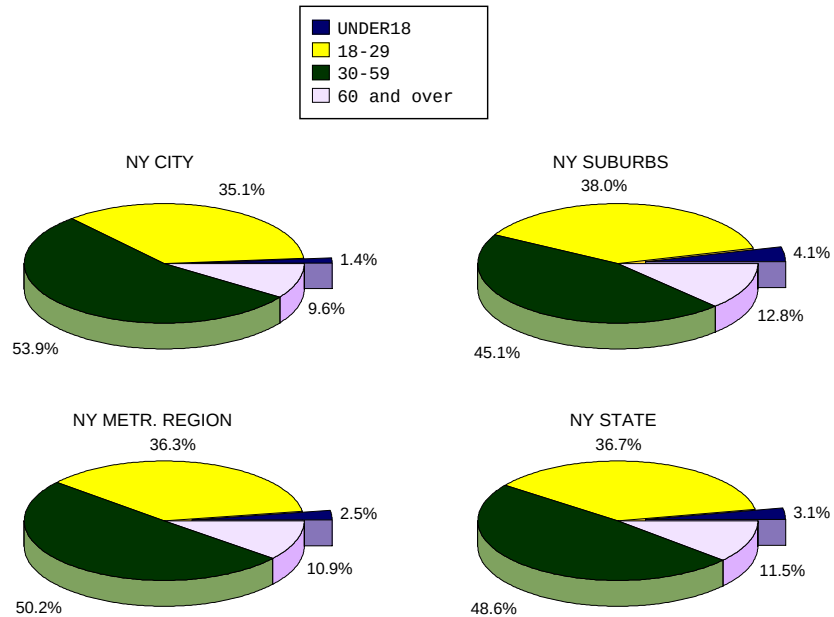


FIGURE 21
1997 MOTOR VEHICLE ACCIDENTS
BY AGE OF FEMALE DRIVER

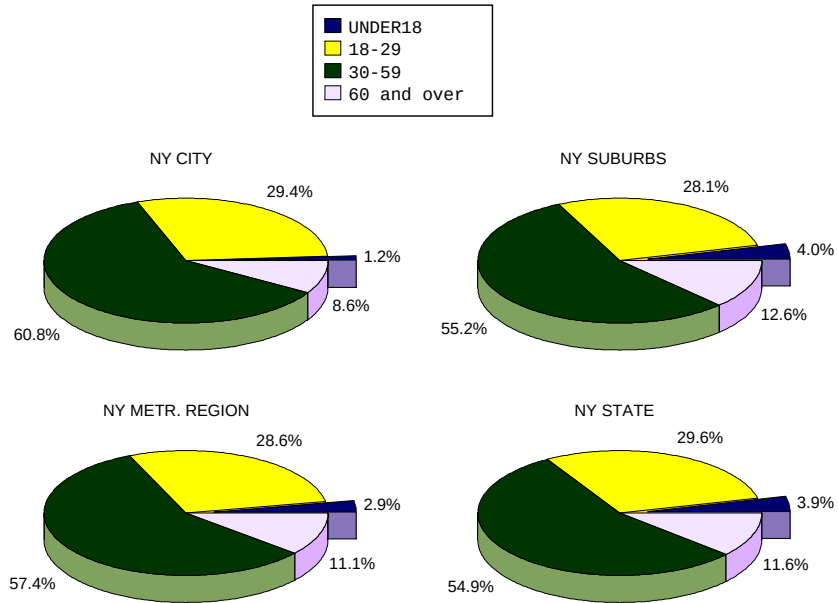


FIGURE 22
1997 MOTOR VEHICLE ACCIDENTS
BY AGE OF MALE DRIVER

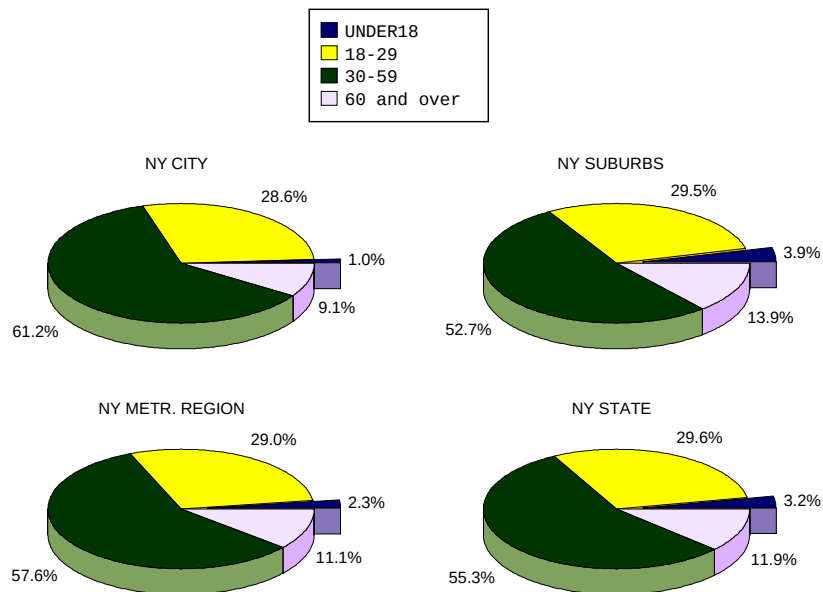


FIGURE 23
1997 MOTOR VEHICLE ACCIDENTS
BY AGE OF MALE AND FEMALE DRIVER

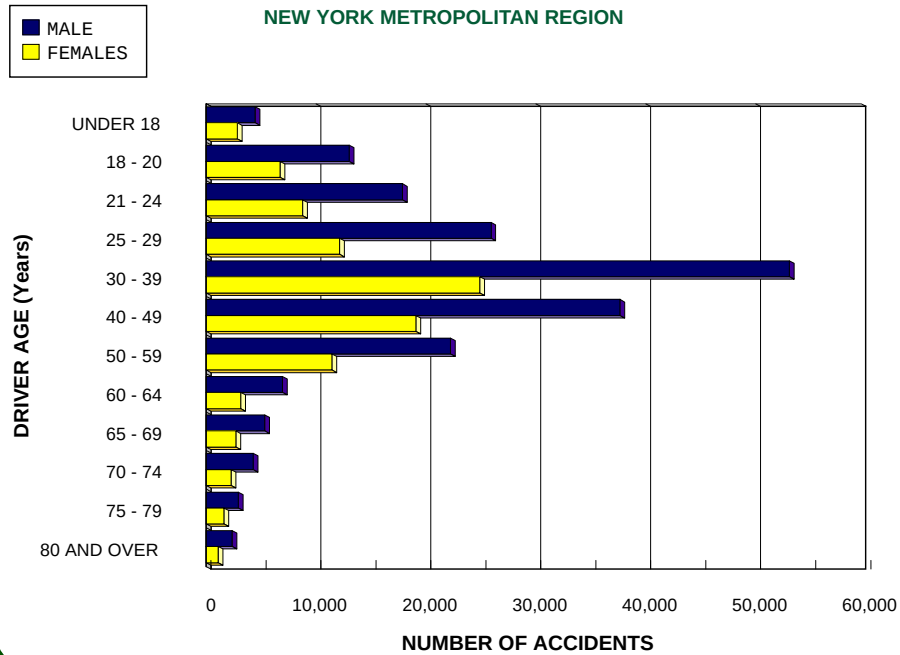
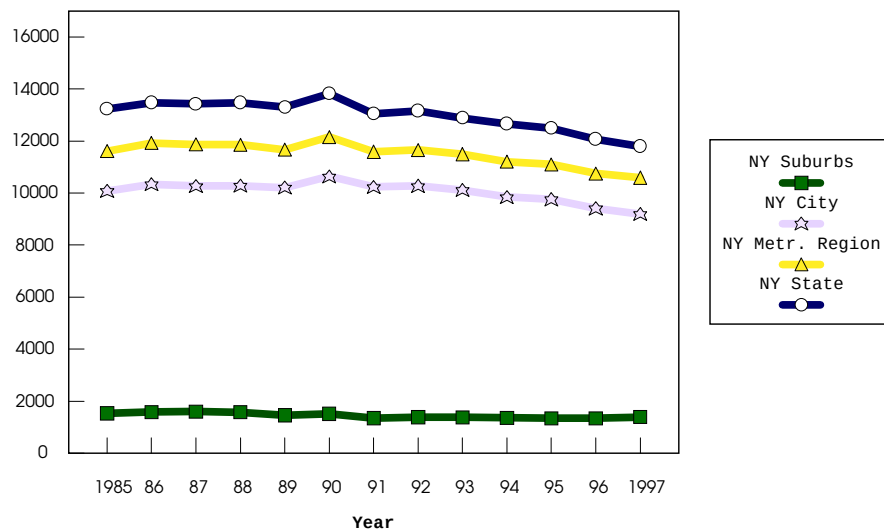
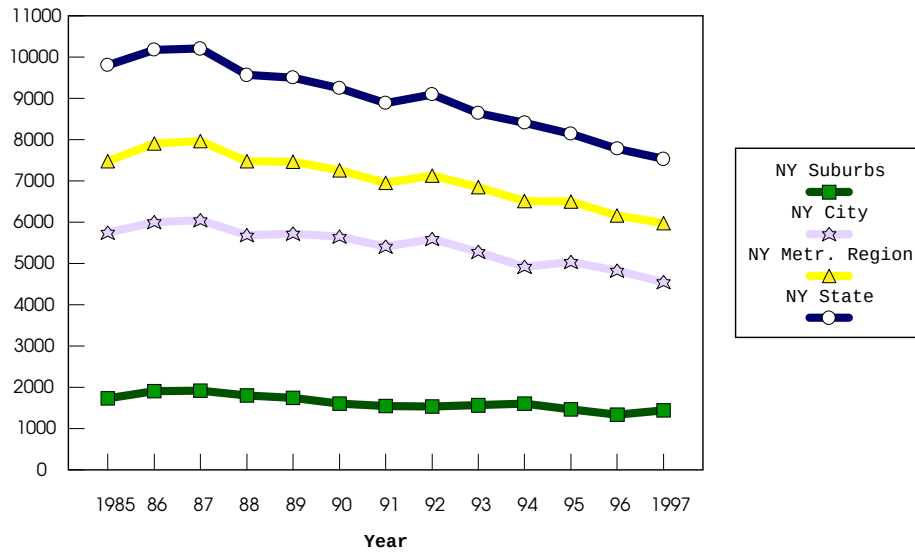


Figure 24
VEHICULAR/PEDESTRIAN ACCIDENTS
AT INTERSECTION



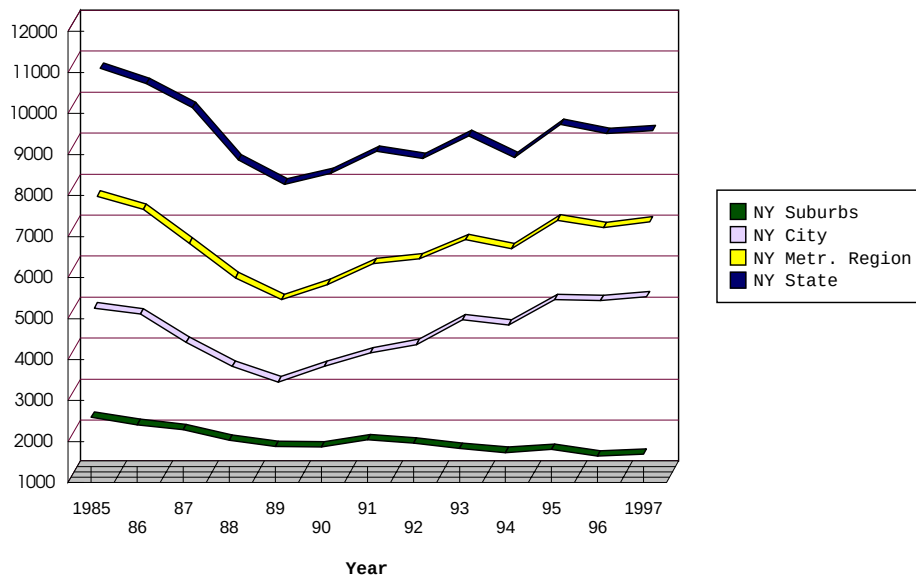
Source: NYS Dept. of Motor Vehicles

Figure 25
VEHICULAR/PEDESTRIAN ACCIDENTS
NOT AT INTERSECTION



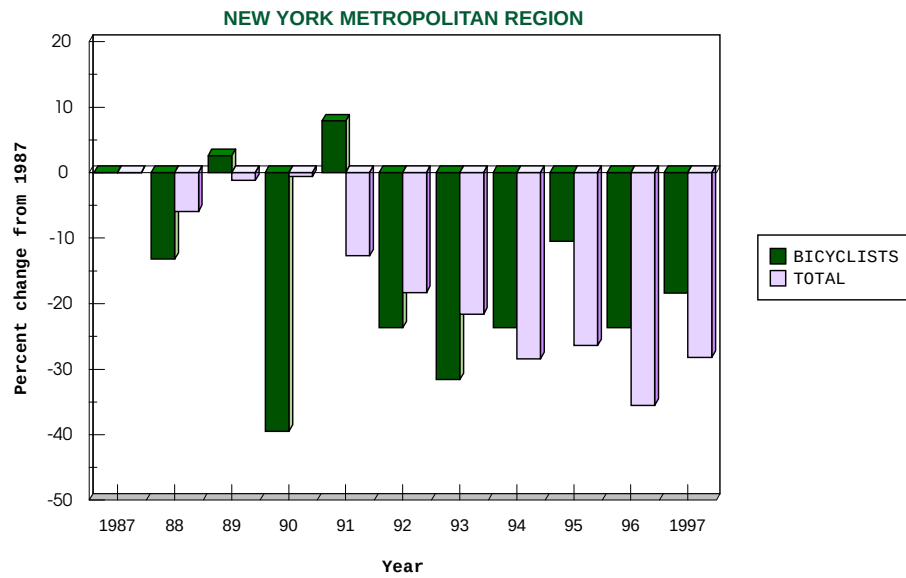
Source: NYS Dept. of Motor Vehicles

Figure 26
TOTAL VEHICULAR/BICYCLE ACCIDENTS



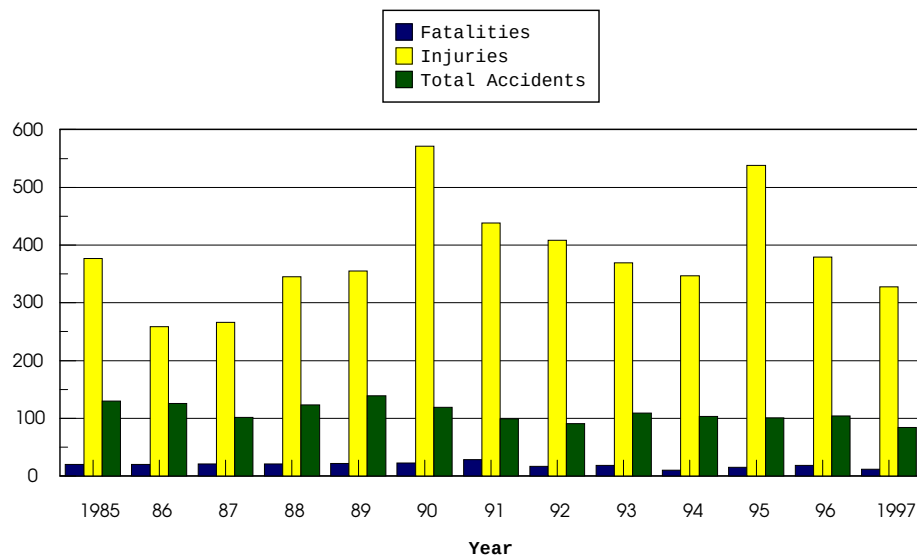
Source: NYS Dept. of Motor Vehicles

Figure 27
TRENDS IN BICYCLE AND TOTAL TRAFFIC FATALITIES
1987-1997



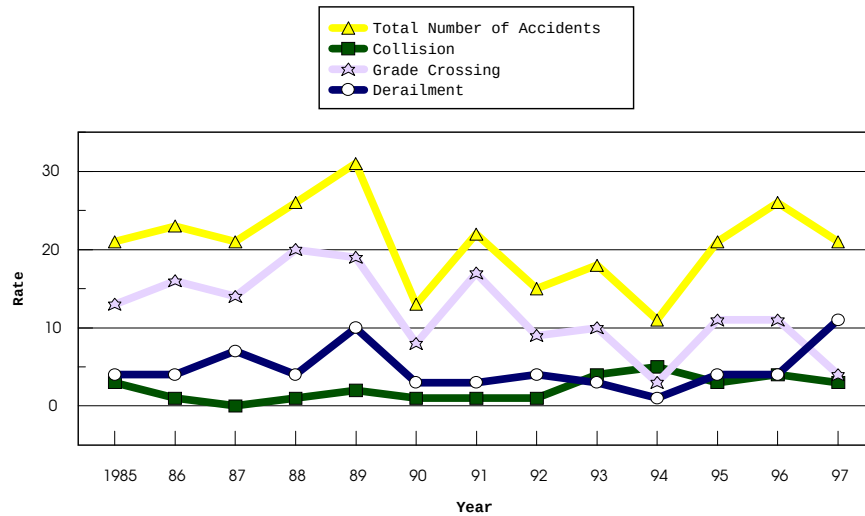
Source: NYS Dept. of Motor Vehicles

Figure 28
TRANSIT ACCIDENTS
MTA Portion of the Region



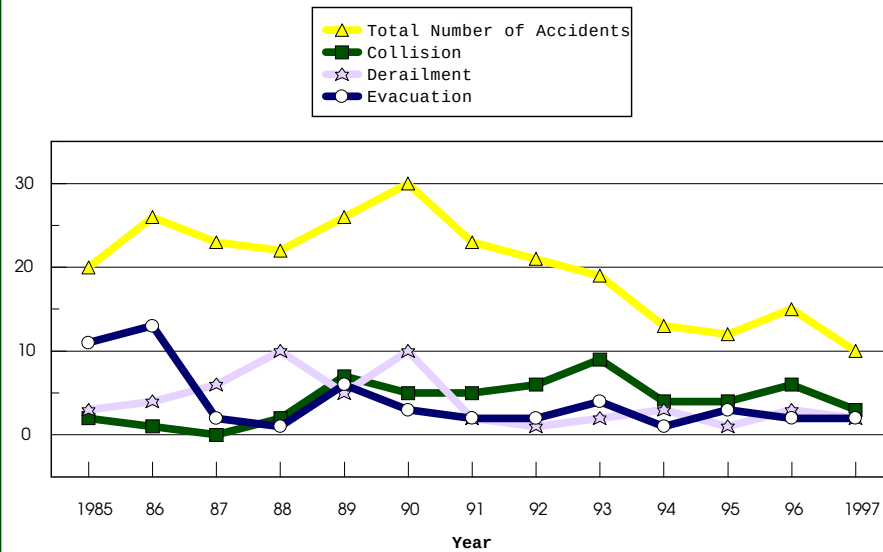
Source: NYS Public Transportation Safety Board

Figure 29
MTA LONG ISLAND RAIL ROAD ACCIDENTS



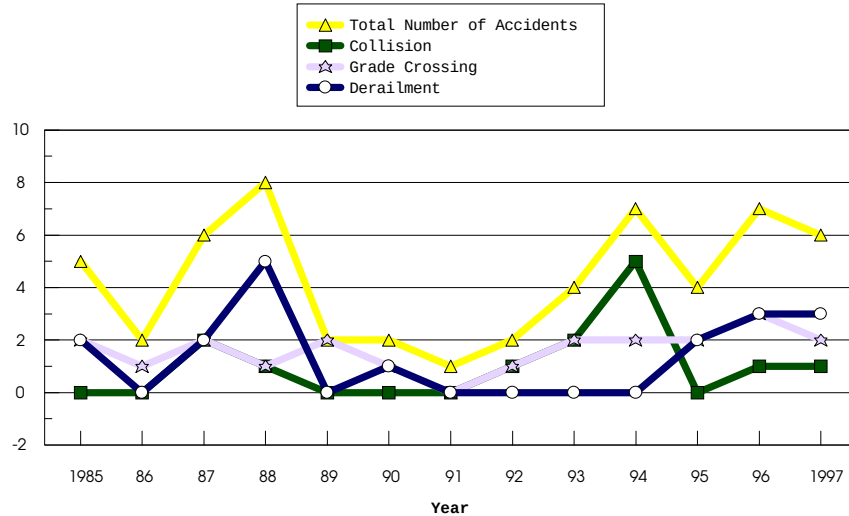
New York State Public Transportation Safety Board

Figure 30
MTA NEW YORK CITY SUBWAY ACCIDENTS



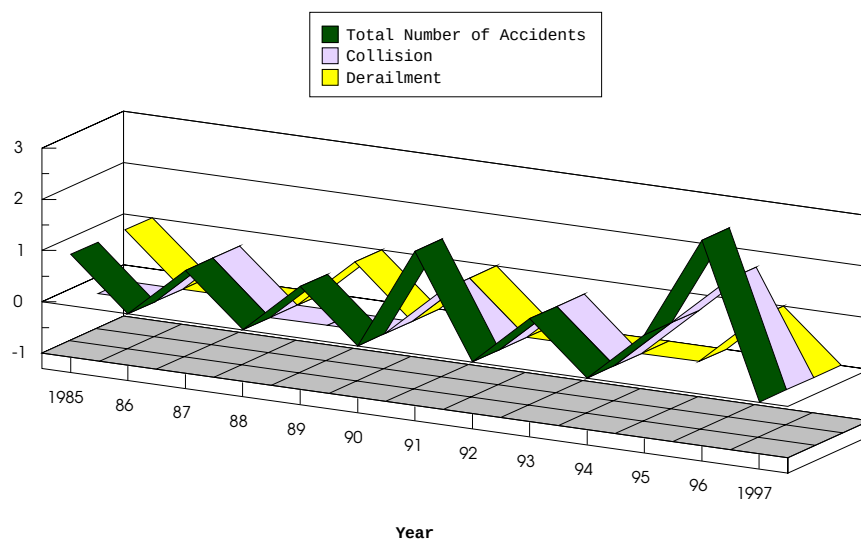
New York State Public Transportation Safety Board

Figure 31
MTA METRO-NORTH RAILROAD ACCIDENTS



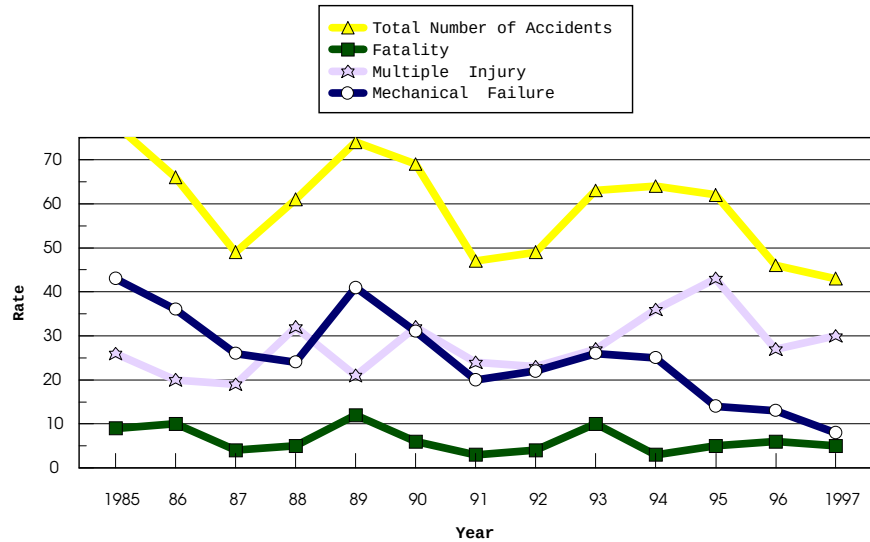
New York State Public Transportation Safety Board

Figure 32
MTA STATEN ISLAND RAILWAY ACCIDENTS



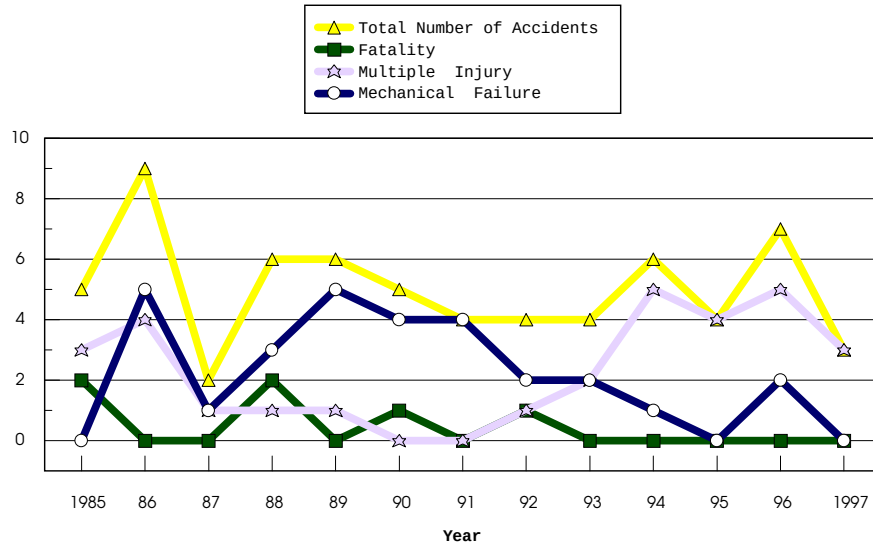
New York State Public Transportation Safety Board

Figure 33
MTA NEW YORK CITY BUS ACCIDENTS



New York State Public Transportation Safety Board

Figure 34
MTA LONG ISLAND BUS ACCIDENTS



New York State Public Transportation Safety Board

TABLE 1

TOTAL NUMBER OF MOTOR VEHICLE ACCIDENTS

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	14,350	14,947	15,549	16,213	16,916	16,680	15,106	14,573	13,819	13,493	13,568	12,899	13,114
Kings	29,718	30,746	31,466	31,906	32,523	33,450	31,441	31,360	30,922	30,485	30,129	28,499	28,768
New York	22,275	21,840	22,266	22,264	22,063	22,197	20,603	20,098	20,317	20,382	19,694	19,219	18,731
Queens	30,487	31,732	33,466	34,905	36,025	35,946	32,233	30,898	29,905	29,302	29,243	27,695	26,690
Richmond	5,613	5,825	5,981	6,199	6,248	6,398	5,883	5,822	5,469	5,171	5,361	5,266	5,125
NEW YORK CITY	102,443	105,090	108,728	111,487	113,775	114,671	105,266	102,751	100,432	98,833	97,995	93,578	92,428
Dutchess	5,437	5,390	5,580	5,655	5,717	5,187	4,467	4,207	4,097	4,320	4,116	4,512	4,733
Nassau	31,357	31,309	31,898	31,807	32,452	31,353	27,715	25,492	25,426	25,334	24,196	23,948	26,599
Orange	5,784	6,055	6,402	6,567	6,888	6,384	5,690	5,370	5,301	5,686	5,260	5,403	5,528
Putnam	1,902	1,919	2,113	2,101	2,164	1,972	1,738	1,598	1,629	1,744	1,545	1,688	1,773
Rockland	5,228	5,449	5,657	5,656	5,608	5,211	4,917	4,485	4,641	4,969	4,722	4,933	4,748
Suffolk	29,441	29,647	30,942	31,492	31,177	29,542	25,511	22,998	23,319	23,389	21,630	21,729	23,262
Westchester	17,085	17,460	18,376	18,912	18,861	16,628	14,754	13,573	13,673	14,074	13,503	13,992	14,097
NEW YORK SUBURBS	96,234	97,229	100,968	102,190	102,867	96,277	84,792	77,723	78,086	79,516	74,972	76,205	80,740
DOWNSTATE NY	198,677	202,319	209,696	213,677	216,642	210,948	190,058	180,474	178,518	178,349	172,967	169,783	173,168
NEW YORK STATE	292,804	294,050	303,809	312,765	321,696	308,107	274,875	258,596	257,209	259,184	253,136	250,521	263,604
Downstate % of NYS	67.9	68.8	69.0	68.3	67.3	68.5	69.1	69.8	69.4	68.8	68.3	67.8	65.7

Source: New York State Dept. of Motor Vehicles.

TABLE 2

MOTOR VEHICLE ACCIDENTS RESULTING IN FATALITY

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	89	79	85	114	111	116	103	89	79	64	74	54	72
Kings	141	135	158	155	151	177	164	143	142	117	117	109	134
New York	99	107	103	100	109	132	95	88	99	82	96	84	81
Queens	128	152	197	160	189	158	156	170	140	133	132	116	123
Richmond	25	25	26	25	30	26	28	20	17	23	19	17	14
NEW YORK CITY	482	498	569	554	590	609	546	510	477	419	438	380	424
Dutchess	31	42	36	41	39	38	35	25	34	30	30	22	31
Nassau	111	119	155	127	144	143	118	122	104	107	101	75	112
Orange	44	65	70	65	65	70	39	42	38	47	35	37	39
Putnam	12	20	16	13	14	11	13	10	13	16	12	16	13
Rockland	31	27	32	31	24	24	18	14	19	25	20	14	26
Suffolk	168	209	200	178	188	192	186	174	181	146	166	153	147
Westchester	80	84	100	100	100	84	73	65	57	53	65	63	54
NEW YORK SUBURBS	477	566	609	555	574	562	482	452	446	424	429	380	422
DOWNSTATE NY	959	1,064	1,178	1,109	1,164	1,171	1,028	962	923	843	867	760	846
NEW YORK STATE	1,840	1,942	2,109	2,046	2,079	2,027	1,807	1,650	1,623	1,528	1,557	1,451	1,488
Downstate % of NYS	52.1	54.8	55.9	54.2	56.0	57.8	56.9	58.3	56.9	55.2	55.7	52.4	56.9
UNITED STATES	39,168	41,062	41,434	42,119	40,718	39,779	36,895	34,928	35,750	36,223	37,221	37,351	n/a
Downstate % of Nation	2.4	2.6	2.8	2.6	2.9	2.9	2.8	2.8	2.6	2.3	2.3	2.0	n/a
n/a - Data not available													

Source: New York State Dept. of Motor Vehicles.

Statistical Abstract of the United States, Highway Statistics (1994, 1995).

TABLE 2A

FATALITY RATE of Motor Vehicle Accidents

PER 100,000 POPULATION

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	7.49	6.59	7.02	9.38	9.15	9.64	8.59	7.45	6.59	5.34	6.19	4.52	6.06
Kings	6.12	5.82	6.80	6.66	6.52	7.69	7.16	6.25	6.20	5.11	5.13	4.79	5.98
New York	6.76	7.25	6.95	6.74	7.33	8.87	6.40	5.91	6.60	5.42	6.29	5.48	5.27
Queens	6.57	7.78	10.09	8.20	9.69	8.10	8.00	8.70	7.13	6.76	6.69	5.86	6.23
Richmond	6.79	6.74	6.97	6.65	7.96	6.86	7.27	5.12	4.30	5.81	4.79	4.26	3.48
NEW YORK CITY	6.63	6.80	7.75	7.53	8.03	8.32	7.47	6.97	6.49	5.69	5.94	5.15	5.77
Dutchess	12.28	16.59	14.07	15.81	15.08	14.65	13.42	9.53	12.93	11.48	11.47	8.38	11.71
Nassau	8.44	9.09	11.88	9.74	11.11	11.11	9.14	9.42	8.00	8.22	7.75	5.75	8.59
Orange	15.75	22.80	23.98	21.78	21.40	22.75	12.51	13.32	11.94	14.69	10.86	11.40	11.92
Putnam	15.00	24.88	19.69	15.70	16.80	13.10	15.20	11.51	14.76	17.96	13.31	17.59	14.07
Rockland	11.73	10.17	12.09	11.72	9.06	9.04	6.72	5.19	6.96	9.08	7.22	5.03	9.29
Suffolk	12.85	15.96	15.26	13.49	14.22	14.53	14.04	13.05	13.49	10.84	12.28	11.28	10.79
Westchester	9.16	9.64	11.46	11.43	11.43	9.60	8.33	7.37	6.43	5.97	7.29	7.05	6.03
NEW YORK SUBURBS	10.91	12.94	13.90	12.61	13.03	12.77	10.91	10.17	9.98	9.46	9.54	8.43	9.32
DOWNSTATE NY	8.24	9.10	10.05	9.43	9.91	9.99	8.77	8.18	7.81	7.12	7.30	6.39	7.13
NEW YORK STATE	10.34	10.89	11.80	11.40	11.56	11.27	10.02	9.12	8.93	8.40	8.56	7.98	8.20
UNITED STATES	16.46	17.10	17.10	17.23	16.50	15.99	14.63	13.70	13.87	13.91	14.16	14.08	<i>n/a</i>
n/a - Data not available													

Source: NYMTC Estimates based on statistics from New York State Dept. of Motor Vehicles and Census Bureau.

TABLE 2B

FATALITY RATE of Motor Vehicle Accidents

PER 100,000 LICENSED DRIVERS

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	36.60	30.34	31.29	41.10	39.97	40.90	37.03	33.61	30.04	24.67	29.20	22.18	29.20
Kings	31.26	28.29	32.38	30.65	29.47	33.58	31.95	30.21	29.86	24.69	25.09	24.49	29.62
New York	47.45	48.85	46.45	44.27	47.35	56.80	41.00	39.74	44.08	36.40	42.61	37.37	34.75
Queens	17.74	19.98	25.56	20.48	24.23	19.98	20.26	23.68	19.35	18.42	18.28	16.20	16.69
Richmond	12.76	11.93	12.34	11.66	13.78	11.76	13.05	9.63	8.03	10.76	8.84	7.82	6.26
NEW YORK CITY	26.48	25.85	28.99	27.63	29.23	29.63	27.20	27.05	25.13	22.11	23.27	20.58	22.40
Dutchess	16.55	21.01	17.74	19.68	18.48	17.62	17.85	15.35	21.07	18.78	18.56	13.47	15.18
Nassau	11.04	11.52	15.18	12.46	14.06	14.00	12.11	13.79	11.12	11.42	10.83	8.07	12.02
Orange	22.63	31.46	32.88	29.57	28.76	30.09	17.87	24.16	21.82	27.00	19.89	20.60	17.22
Putnam	18.59	28.89	22.87	17.87	18.84	14.48	17.94	17.10	22.07	26.97	20.00	26.02	16.61
Rockland	16.24	13.51	16.25	15.48	11.80	11.74	9.14	9.22	12.53	16.64	13.25	9.04	13.22
Suffolk	16.89	19.75	18.77	16.40	17.14	17.32	17.64	17.98	17.83	14.30	16.25	14.89	14.15
Westchester	12.04	11.79	14.07	13.51	13.20	11.04	9.98	11.04	9.51	8.79	10.75	10.35	8.78
NEW YORK SUBURBS	14.45	16.26	17.50	15.65	15.97	15.53	14.00	15.13	14.41	13.66	13.81	12.16	12.82
DOWNSTATE NY	18.72	19.68	21.64	19.98	20.74	20.63	18.86	19.74	18.48	16.86	17.38	15.29	16.32
NEW YORK STATE	20.06	20.14	21.71	20.57	20.59	19.79	18.40	19.27	18.71	17.53	17.82	16.62	15.37
UNITED STATES	25.00	25.51	25.31	24.97	23.79	23.03	21.47	20.11	20.25	20.14	20.37	19.99	<i>n/a</i>
n/a - Data not available													

Source: NYMTC Estimates based on statistics from New York State Dept. of Motor Vehicles and Census Bureau.

TABLE 3

MOTOR VEHICLE ACCIDENTS RESULTING IN INJURY

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	10,292	11,165	11,311	11,805	12,192	12,316	11,770	12,071	11,418	10,983	11,249	10,612	10,904
Kings	21,622	23,075	23,333	23,590	23,979	25,282	24,993	26,425	26,438	26,252	26,286	25,062	25,559
New York	15,543	16,110	15,989	15,799	15,734	16,110	15,917	16,787	17,088	16,913	16,250	15,824	15,711
Queens	18,995	21,068	21,617	22,492	23,086	23,760	22,778	23,733	23,299	23,049	23,461	22,000	21,849
Richmond	3,785	4,071	4,100	4,270	4,218	4,374	4,272	4,486	4,304	4,036	4,188	4,242	4,133
NEW YORK CITY	70,237	75,489	76,350	77,956	79,209	81,842	79,730	83,502	82,547	81,233	81,434	77,740	78,156
Dutchess	3,147	3,306	3,282	3,308	3,342	3,044	2,739	2,742	2,733	2,851	2,800	2,901	2,829
Nassau	17,977	18,603	18,614	18,089	18,419	18,163	17,200	17,388	17,528	17,418	16,997	16,884	16,828
Orange	3,644	4,090	4,318	4,260	4,389	3,971	3,718	3,801	3,731	3,829	3,631	3,674	3,324
Putnam	1,108	1,151	1,222	1,154	1,232	1,108	1,053	998	1,046	1,075	960	1,030	1,033
Rockland	3,209	3,598	3,669	3,561	3,549	3,258	3,176	3,041	3,153	3,305	3,162	3,206	2,998
Suffolk	17,204	18,221	18,616	18,533	18,477	17,802	16,562	15,969	16,486	16,437	15,483	15,603	14,656
Westchester	9,408	10,017	10,013	10,107	10,006	9,016	8,669	8,739	8,740	8,885	8,683	8,822	8,577
NEW YORK SUBURBS	55,697	58,986	59,734	59,012	59,414	56,362	53,117	52,678	53,417	53,800	51,716	52,120	50,245
DOWNSTATE NY	125,934	134,475	136,084	136,968	138,623	138,204	132,847	136,180	135,964	135,033	133,150	129,860	128,401
NEW YORK STATE	183,782	193,701	197,297	199,920	203,550	198,715	189,310	193,391	192,587	191,360	189,201	185,670	182,526
Downstate % of NYS	68.5	69.4	69.0	68.5	68.1	69.5	70.2	70.4	70.6	70.6	70.4	69.9	70.3
UNITED STATES	2,219,000	2,254,000	2,294,000	2,302,000	2,384,000	2,501,000	2,210,000	2,216,000	<i>n/a</i>	<i>n/a</i>	2,334,623	2,410,794	<i>n/a</i>
Downstate % of Nation	5.7	6.0	5.9	5.9	5.8	5.5	6.0	6.1	<i>n/a</i>	<i>n/a</i>	5.7	5.4	<i>n/a</i>
n/a - Data not available													

Source: New York State Dept. of Motor Vehicles.
Statistical Abstract of the United States.

TABLE 4

MOTOR VEHICLE ACCIDENTS RESULTING IN PROPERTY DAMAGE

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	3,969	3,703	4,153	4,294	4,613	4,248	3,233	2,413	2,322	2,446	2,245	2,233	2,138
Kings	7,955	7,536	7,975	8,161	8,393	7,991	6,284	4,792	4,342	4,116	3,726	3,328	3,075
New York	6,633	5,623	6,174	6,365	6,220	5,955	4,591	3,223	3,130	3,387	3,348	3,311	2,939
Queens	11,364	10,512	11,652	12,253	12,750	12,028	9,299	6,995	6,466	6,120	5,650	5,379	4,718
Richmond	1,803	1,729	1,855	1,904	2,000	1,998	1,583	1,316	1,148	1,112	1,154	1,007	978
NEW YORK CITY	31,724	29,103	31,809	32,977	33,976	32,220	24,990	18,739	17,408	17,181	16,123	15,258	13,848
Dutchess	2,259	2,042	2,262	2,306	2,336	2,105	1,693	1,440	1,330	1,439	1,286	1,589	1,873
Nassau	13,269	12,587	13,129	13,591	13,889	13,047	10,397	7,982	7,794	7,809	7,098	6,989	9,659
Orange	2,096	1,900	2,014	2,242	2,434	2,343	1,933	1,527	1,532	1,810	1,594	1,692	2,165
Putnam	782	748	875	934	918	853	672	590	570	653	573	642	727
Rockland	1,988	1,824	1,956	2,064	2,035	1,929	1,723	1,430	1,469	1,639	1,540	1,713	1,724
Suffolk	12,069	11,217	12,126	12,781	12,512	11,548	8,763	6,855	6,652	6,806	5,981	5,973	8,459
Westchester	7,597	7,359	8,263	8,705	8,755	7,528	6,012	4,769	4,876	5,136	4,755	5,107	5,466
NEW YORK SUBURBS	40,060	37,677	40,625	42,623	42,879	39,353	31,193	24,593	24,223	25,292	22,827	23,705	30,073
DOWNSTATE NY	71,784	66,780	72,434	75,600	76,855	71,573	56,183	43,332	41,631	42,473	38,950	38,963	43,921
NEW YORK STATE	107,182	98,407	104,403	110,799	116,067	107,365	83,758	63,555	62,999	66,296	62,378	63,400	79,590
Downstate % of NYS	67.0	67.9	69.4	68.2	66.2	66.7	67.1	68.2	66.1	64.1	62.4	61.5	55.2

Source: New York State Dept. of Motor Vehicles.

TABLE 5

MOTOR VEHICLE ACCIDENTS BY CONTRIBUTING HUMAN FACTORS

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	9,490	10,366	11,231	12,263	12,714	13,265	12,852	12,043	10,856	9,830	10,293	10,035	9,936
Kings	22,666	24,252	24,331	24,726	25,000	27,174	27,608	27,358	27,928	27,448	28,859	26,817	25,843
New York	14,817	15,273	16,325	17,185	17,829	19,407	18,875	19,083	18,987	18,706	18,276	18,380	17,645
Queens	20,788	23,246	23,788	25,180	25,974	25,863	25,435	24,555	23,503	22,503	23,119	21,562	20,706
Richmond	4,235	4,430	4,699	5,181	5,229	5,389	5,310	5,277	4,730	4,296	4,535	4,323	4,180
NEW YORK CITY	71,996	77,567	80,374	84,535	86,746	91,098	90,080	88,316	86,004	82,783	85,082	81,117	78,310
Dutchess	4,081	4,356	4,130	4,186	4,156	3,735	3,371	3,125	3,109	3,165	3,208	3,452	3,769
Nassau	19,000	20,421	21,358	21,747	22,838	22,476	20,746	19,591	19,703	19,240	19,579	19,287	23,200
Orange	4,470	4,885	5,503	5,504	5,586	5,145	4,667	4,502	4,595	4,546	4,505	4,508	4,468
Putnam	1,353	1,444	1,565	1,526	1,617	1,423	1,368	1,198	1,196	1,252	1,195	1,243	1,375
Rockland	4,120	4,458	4,535	4,648	4,627	4,263	3,929	3,735	3,696	3,843	4,041	3,989	4,108
Suffolk	20,678	22,522	23,567	24,254	23,877	23,453	20,954	14,536	19,605	19,039	19,142	18,565	21,393
Westchester	8,083	8,729	8,973	9,114	9,558	8,417	8,135	7,566	7,475	7,614	7,696	8,081	9,045
NEW YORK SUBURBS	61,785	66,815	69,631	70,979	72,259	68,912	63,170	54,253	59,379	58,699	59,366	59,125	67,358
DOWNSTATE NY	133,781	144,382	150,005	155,514	159,005	160,010	153,250	142,569	145,383	141,482	144,448	140,242	145,668
NEW YORK STATE	205,353	217,486	226,754	234,852	241,043	238,794	224,255	209,304	213,273	210,333	213,552	209,673	222,969
Downstate % of NYS	65.1	66.4	66.2	66.2	66.0	67.0	68.3	68.1	68.2	67.3	67.6	66.9	65.3

Source: New York State Dept. of Motor Vehicles.

TABLE 6

MOTOR VEHICLE ACCIDENTS BY CONTRIBUTING VEHICULAR FACTORS

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	1,223	1,318	1,428	2,182	2,370	2,572	2,133	1,516	1,248	963	1,021	836	777
Kings	2,606	2,608	2,431	2,764	2,627	2,807	3,116	3,015	3,005	2,931	2,680	2,504	2,321
New York	1,375	1,617	1,622	1,627	1,946	2,039	1,851	2,053	1,983	1,699	1,422	1,346	1,189
Queens	2,272	2,828	3,212	3,109	3,315	3,164	2,722	2,526	2,487	2,235	1,968	1,795	1,753
Richmond	428	490	535	576	545	651	497	552	508	462	402	393	274
NEW YORK CITY	7,904	8,861	9,228	10,258	10,803	11,233	10,319	9,662	9,231	8,290	7,493	6,874	6,314
Dutchess	221	217	224	219	237	178	195	150	153	143	123	106	160
Nassau	915	942	966	859	824	725	651	598	628	550	476	525	499
Orange	313	307	276	282	308	266	266	228	216	208	219	232	209
Putnam	81	100	88	101	70	98	72	48	56	68	58	57	59
Rockland	269	255	283	263	233	218	185	173	161	171	160	177	156
Suffolk	1,211	1,167	1,199	1,147	1,084	923	797	488	643	608	632	553	679
Westchester	691	750	736	693	638	626	523	487	509	434	457	384	441
NEW YORK SUBURBS	3,701	3,738	3,772	3,564	3,394	3,034	2,689	2,172	2,366	2,182	2,125	2,034	2,203
DOWNSTATE NY	11,605	12,599	13,000	13,822	14,197	14,267	13,008	11,834	11,597	10,472	9,618	8,908	8,517
NEW YORK STATE	15,663	16,859	17,200	17,949	18,173	18,000	16,253	14,809	14,588	13,446	12,423	11,712	11,490
Downstate % of NYS	74.1	74.7	75.6	77.0	78.1	79.3	80.0	79.9	79.5	77.9	77.4	76.1	74.1

Source: New York State Dept. of Motor Vehicles.

TABLE 7

MOTOR VEHICLE ACCIDENTS BY CONTRIBUTING ENVIRONMENTAL FACTORS

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	1,904	2,122	2,229	2,380	2,589	2,264	2,083	2,082	1,930	1,938	1,830	1,779	1,445
Kings	3,743	3,814	4,079	3,976	4,209	4,102	3,579	3,541	3,590	3,763	3,699	3,667	2,852
New York	1,963	2,069	2,248	2,366	2,430	2,319	2,133	2,121	2,190	2,201	1,850	2,038	1,600
Queens	3,668	4,349	4,569	4,677	5,072	4,930	4,351	4,402	3,964	4,100	3,762	4,096	3,125
Richmond	1,090	1,122	1,175	1,297	1,458	1,453	1,193	1,370	1,064	1,076	867	1,032	767
NEW YORK CITY	12,368	13,476	14,300	14,696	15,758	15,068	13,339	13,516	12,738	13,078	12,008	12,612	9,789
Dutchess	1,643	1,574	1,507	1,496	1,610	1,288	1,136	1,246	1,163	1,375	1,126	1,399	1,338
Nassau	7,255	7,173	7,490	7,313	7,437	6,597	5,522	5,584	5,310	5,762	4,423	5,072	4,393
Orange	1,561	1,673	1,804	1,701	1,932	1,826	1,597	1,627	1,566	1,952	1,497	1,668	1,736
Putnam	604	677	697	706	758	701	574	598	648	715	513	695	587
Rockland	1,283	1,276	1,500	1,312	1,334	1,241	1,232	1,076	1,142	1,449	1,068	1,315	1,034
Suffolk	7,318	7,271	7,515	7,481	7,055	6,241	5,385	3,735	4,670	5,758	4,127	5,185	4,215
Westchester	3,101	3,370	3,355	3,549	3,764	3,068	2,723	2,650	2,766	3,268	2,404	2,658	2,286
NEW YORK SUBURBS	22,765	23,014	23,868	23,558	23,890	20,962	18,169	16,516	17,265	20,279	15,158	17,992	15,589
DOWNSTATE NY	35,133	36,490	38,168	38,254	39,648	36,030	31,508	30,032	30,003	33,357	27,166	30,604	25,378
NEW YORK STATE	59,423	59,225	60,386	61,509	66,629	58,349	51,211	50,171	49,748	55,967	47,252	51,706	51,230
Downstate % of NYS	59.1	61.6	63.2	62.2	59.5	61.7	61.5	59.9	60.3	59.6	57.5	59.2	49.5

Source: New York State Dept. of Motor Vehicles.

TABLE 8

TOTAL NUMBER OF VEHICLES INVOLVED IN ALL TYPE OF ACCIDENTS

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	26,690	27,927	29,397	30,753	32,175	31,487	28,234	27,205	25,550	25,074	25,071	23,936	24,363
Kings	56,431	58,583	60,435	61,864	62,860	64,735	60,801	60,250	58,987	58,196	57,218	53,868	54,609
New York	37,719	38,968	40,017	63,279	40,294	40,458	37,223	36,015	36,255	36,528	35,107	34,085	33,305
Queens	60,554	63,371	67,036	69,872	71,951	71,458	63,855	60,801	58,657	57,498	57,136	53,954	52,143
Richmond	10,840	11,252	11,651	12,159	12,346	12,590	11,520	11,361	10,639	10,107	10,438	10,212	10,028
NEW YORK CITY	192,234	200,101	208,536	237,927	219,626	220,728	201,633	195,632	190,088	187,403	184,970	176,055	174,448
Dutchess	9,611	9,587	10,073	10,068	10,139	9,221	7,914	7,353	7,192	7,662	7,205	7,859	7,995
Nassau	62,400	62,409	63,649	63,341	64,702	62,649	55,151	50,402	50,549	50,497	48,241	47,849	53,356
Orange	9,788	10,452	11,240	11,404	11,889	11,030	9,910	9,330	9,269	10,126	9,100	9,312	9,259
Putnam	3,147	3,239	3,645	3,653	3,674	3,366	2,980	2,716	2,743	3,036	2,658	2,893	3,029
Rockland	9,725	10,272	10,743	10,734	10,683	9,900	9,340	8,463	8,889	9,464	8,887	9,361	8,960
Suffolk	56,716	57,340	60,124	61,110	60,396	57,263	49,441	44,535	44,912	45,384	41,941	42,116	45,322
Westchester	31,898	32,846	34,751	35,956	35,740	31,363	49,440	25,262	25,609	26,507	25,219	26,298	26,381
NEW YORK SUBURBS	183,285	186,145	194,225	196,266	197,223	184,792	184,176	148,061	149,163	152,676	143,251	145,688	154,302
DOWNSTATE NY	375,519	386,246	402,761	434,193	416,849	405,520	385,809	343,693	339,251	340,079	328,221	321,743	328,750
NEW YORK STATE	540,151	544,865	566,620	583,264	599,428	574,970	511,037	478,966	477,335	483,580	466,820	461,589	482,607
Downstate % of NYS	69.5	70.9	71.1	74.4	69.5	70.5	75.5	71.8	71.1	70.3	70.3	69.7	68.1

Source: New York State Department of Motor Vehicles.

TABLE 9

TOTAL NUMBER OF VEHICLES INVOLVED IN ACCIDENTS RESULTING IN FATALITY

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	126	113	130	157	177	181	146	132	109	98	111	76	98
Kings	217	217	236	233	228	283	275	221	211	174	179	163	195
New York	131	151	146	143	135	199	129	115	134	108	141	107	108
Queens	185	238	288	246	278	252	248	268	207	217	195	191	185
Richmond	39	37	43	35	43	39	47	26	28	38	37	23	18
NEW YORK CITY	698	756	843	814	861	954	845	762	689	635	663	560	604
Dutchess	44	66	59	62	59	64	57	36	58	46	53	37	50
Nassau	184	202	248	205	224	211	189	185	172	158	159	121	177
Orange	63	97	113	95	103	103	56	73	63	77	52	56	63
Putnam	19	30	28	20	24	3	20	18	20	25	22	27	21
Rockland	45	44	42	48	37	39	26	21	36	39	21	20	42
Suffolk	282	318	320	265	294	296	292	291	286	248	252	238	235
Westchester	123	131	162	154	138	135	292	91	90	77	97	92	81
NEW YORK SUBURBS	760	888	972	849	879	851	932	715	725	670	656	591	669
DOWNSTATE NY	1,458	1,644	1,815	1,663	1,740	1,805	1,777	1,477	1,414	1,305	1,319	1,151	1,273
NEW YORK STATE	2,794	2,959	3,218	3,060	3,143	3,120	2,785	2,544	2,473	2,390	2,377	2,227	2,305
Downstate % of NYS	52.2	55.6	56.4	54.3	55.4	57.9	63.8	58.1	57.2	54.6	55.5	51.7	55.2

Source: New York State Department of Motor Vehicles.

TABLE 10

TOTAL NUMBER OF VEHICLES INVOLVED IN ACCIDENTS RESULTING IN INJURY

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	18,342	20,084	20,597	21,624	22,394	22,583	21,457	22,094	20,727	20,020	20,375	19,303	19,908
Kings	39,436	42,474	43,399	44,494	45,132	47,738	47,454	49,956	49,646	49,523	49,321	46,874	48,066
New York	25,948	27,142	27,155	35,546	27,428	28,091	27,709	29,268	29,688	29,455	28,144	27,276	27,168
Queens	36,548	41,020	42,457	44,103	45,306	46,441	44,353	46,058	45,172	44,780	45,276	42,741	42,247
Richmond	7,121	7,669	7,801	8,219	8,221	8,449	8,234	8,591	8,254	7,801	8,063	8,161	8,017
NEW YORK CITY	127,395	138,389	141,409	153,986	148,481	153,302	149,207	155,967	153,487	151,579	151,179	144,355	145,406
Dutchess	5,491	5,827	5,869	5,820	5,954	5,465	4,869	4,888	4,907	5,145	4,998	5,191	5,005
Nassau	35,068	36,469	36,643	35,546	36,326	35,954	33,953	34,170	34,700	34,575	33,769	33,660	33,576
Orange	6,009	6,929	7,478	7,322	7,556	6,912	6,545	6,707	6,666	6,953	6,388	6,498	5,771
Putnam	1,796	1,911	2,094	1,988	2,083	1,888	1,796	1,710	1,766	1,903	1,664	1,815	1,817
Rockland	5,847	6,673	6,923	6,692	6,711	6,128	6,045	5,767	6,086	6,357	6,013	6,160	5,727
Suffolk	32,344	34,596	35,631	35,547	35,467	34,174	31,884	30,756	31,707	31,792	29,941	30,200	28,481
Westchester	17,031	18,438	18,434	18,859	18,704	16,779	31,883	16,149	16,284	16,669	16,125	16,591	16,139
NEW YORK SUBURBS	103,586	110,843	113,072	111,774	112,801	107,300	116,975	100,147	102,116	103,394	98,898	100,115	96,516
DOWNSTATE NY	230,981	249,232	254,481	265,760	261,282	260,602	266,182	256,114	255,603	254,973	250,077	244,470	241,922
NEW YORK STATE	327,924	348,932	358,713	364,606	372,399	364,706	347,319	355,078	355,104	355,199	347,789	341,836	336,107
Downstate % of NYS	70.4	71.4	70.9	72.9	70.2	71.5	76.6	72.1	72.0	71.8	71.9	71.5	72.0

Source: New York State Department of Motor Vehicles.

TABLE 11

TOTAL NUMBER OF VEHICLES INVOLVED IN ACCIDENTS RESULTING IN PROPERTY DAMAGE

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	8,222	7,730	8,670	8,972	9,604	8,723	6,631	4,979	4,714	4,956	4,585	4,557	4,357
Kings	16,778	15,892	16,800	17,137	17,500	16,714	13,072	10,073	9,130	8,499	7,718	6,831	6,348
New York	11,640	11,675	12,716	27,590	12,731	12,168	9,385	6,632	6,433	6,965	6,822	6,702	6,029
Queens	23,821	22,113	24,291	25,523	26,367	24,765	19,254	14,475	13,278	12,501	11,665	11,022	9,711
Richmond	3,680	3,546	3,807	3,905	4,082	4,102	3,239	2,744	2,357	2,268	2,338	2,028	1,993
NEW YORK CITY	64,141	60,956	66,284	83,127	70,284	66,472	51,581	38,903	35,912	35,189	33,128	31,140	28,438
Dutchess	4,076	3,694	4,145	4,186	4,126	3,692	2,988	2,429	2,227	2,471	2,154	2,631	2,940
Nassau	27,148	25,738	26,758	27,590	28,152	26,484	21,009	16,047	15,677	15,764	14,313	14,068	19,603
Orange	3,716	3,426	3,649	3,987	4,230	4,015	3,309	2,550	2,540	3,096	2,660	2,758	3,425
Putnam	1,332	1,298	1,523	1,645	1,567	1,475	1,164	988	957	1,108	972	1,051	1,191
Rockland	3,833	3,555	3,778	3,994	3,935	3,733	3,269	2,675	2,767	3,068	2,853	3,181	3,191
Suffolk	24,090	22,426	24,173	25,298	24,635	22,793	17,265	13,488	12,919	13,344	11,748	11,678	16,606
Westchester	14,744	14,277	16,155	16,943	16,898	14,449	17,265	9,022	9,235	9,761	8,997	9,615	10,161
NEW YORK SUBURBS	78,939	74,414	80,181	83,643	83,543	76,641	66,269	47,199	46,322	48,612	43,697	44,982	57,117
DOWNSTATE NY	143,080	135,370	146,465	166,770	153,827	143,113	117,850	86,102	82,234	83,801	76,825	76,122	85,555
NEW YORK STATE	209,433	192,974	204,689	215,598	223,886	207,144	160,933	121,344	119,758	125,991	116,654	117,526	144,195
Downstate % of NYS	68.3	70.1	71.6	77.4	68.7	69.1	73.2	71.0	68.7	66.5	65.9	64.8	59.3

Source: New York State Department of Motor Vehicles.

TABLE 12

MOTOR VEHICLE ACCIDENTS INVOLVING MALE DRIVERS

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	18,281	19,036	19,723	20,349	21,093	20,642	18,255	17,668	16,559	16,444	16,655	15,819	16,169
Kings	38,385	39,488	40,019	40,391	40,873	41,950	39,325	39,424	38,784	38,450	38,190	36,046	36,384
New York	29,427	28,859	29,425	29,164	28,884	28,935	26,778	26,262	26,452	26,703	25,786	25,006	24,535
Queens	39,659	41,398	43,546	44,602	45,862	45,020	39,758	38,596	37,277	36,797	36,781	34,713	33,041
Richmond	6,656	6,811	6,906	6,196	7,357	7,301	6,633	6,518	6,058	5,756	5,951	5,826	5,658
NEW YORK CITY	132,408	135,592	139,619	140,702	144,069	143,848	130,749	128,468	125,130	124,150	123,363	117,410	115,787
Dutchess	5,781	5,670	6,059	5,915	5,805	5,157	4,379	4,101	3,970	4,293	3,923	4,402	4,433
Nassau	35,694	35,790	35,951	35,696	35,850	34,658	30,322	27,654	28,170	27,922	26,306	25,966	28,743
Orange	5,900	6,281	6,705	6,724	6,886	6,368	5,661	5,326	5,381	5,801	5,269	5,305	5,218
Putnam	1,913	1,977	2,196	2,206	2,177	2,031	1,754	1,554	1,594	1,827	1,519	1,679	1,746
Rockland	5,733	6,078	6,268	6,196	6,139	5,567	5,286	4,757	5,006	5,346	4,969	5,309	4,954
Suffolk	32,610	32,961	34,547	34,567	33,994	31,604	27,152	24,596	24,993	24,989	22,688	22,893	24,442
Westchester	18,576	18,829	19,891	20,347	19,993	17,177	15,192	13,791	13,976	16,618	13,757	14,384	14,334
NEW YORK SUBURBS	106,207	107,586	111,617	111,651	110,844	102,562	89,746	81,779	83,090	86,796	78,431	79,938	83,870
DOWNSTATE NY	238,615	243,178	251,236	252,353	254,913	246,410	220,495	210,247	208,220	210,946	201,794	197,348	199,657
NEW YORK STATE	335,819	337,245	346,832	352,194	358,677	341,620	302,459	285,612	285,176	289,381	278,164	273,882	283,794
Downstate % of NYS	71.1	72.1	72.4	71.7	71.1	72.1	72.9	73.6	73.0	72.9	72.5	72.1	70.4

Source: New York State Dept. of Motor Vehicles.

TABLE 13

MOTOR VEHICLE ACCIDENTS INVOLVING FEMALE DRIVERS

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	4,350	4,762	5,064	5,399	5,722	5,658	5,229	5,337	5,064	4,836	5,125	5,027	5,086
Kings	8,909	9,422	10,005	10,792	11,171	11,629	10,840	10,773	10,624	10,481	10,922	10,434	11,080
New York	4,468	4,389	4,632	4,800	4,943	4,953	4,539	4,389	4,489	4,474	4,578	4,615	4,645
Queens	12,437	13,231	13,955	14,854	15,451	15,701	14,360	13,572	13,335	12,784	13,444	12,733	12,954
Richmond	2,952	3,183	3,333	3,979	3,655	3,864	3,613	3,637	3,466	3,280	3,565	3,442	3,469
NEW YORK CITY	33,116	34,987	36,989	39,824	40,942	41,805	38,581	37,708	36,978	35,855	37,634	36,251	37,234
Dutchess	3,425	3,479	3,571	3,711	3,872	3,621	3,117	2,970	2,942	3,060	2,984	3,139	3,225
Nassau	21,517	21,739	22,470	22,220	23,345	22,750	20,244	19,105	19,019	18,801	18,597	18,630	20,801
Orange	3,330	3,660	3,884	4,012	4,303	3,999	3,638	3,599	3,496	3,812	3,406	3,598	3,593
Putnam	1,073	1,109	1,284	1,289	1,343	1,204	1,103	1,059	1,070	1,103	1,035	1,091	1,171
Rockland	3,524	3,700	3,906	3,979	3,982	3,823	3,543	3,296	3,485	3,599	3,459	3,575	3,478
Suffolk	20,086	20,677	21,441	22,053	22,124	21,289	18,647	16,827	17,046	17,451	16,648	16,762	17,866
Westchester	10,773	11,425	11,713	12,342	12,585	11,337	10,171	9,523	9,459	9,573	9,319	9,717	9,948
NEW YORK SUBURBS	63,728	65,789	68,269	69,606	71,554	68,023	60,463	56,379	56,517	57,399	55,448	56,512	60,082
DOWNSTATE NY	96,844	100,776	105,258	109,430	112,496	109,828	99,044	94,087	93,495	93,254	93,082	92,763	97,316
NEW YORK STATE	151,525	155,498	163,498	171,327	179,583	172,795	154,618	146,794	146,955	148,439	147,956	148,723	158,181
Downstate % of NYS	63.9	64.8	64.4	63.9	62.6	63.6	64.1	64.1	63.6	62.8	62.9	62.4	61.5

Source: New York State Dept. of Motor Vehicles.

TABLE 14

1980 MOTOR VEHICLE ACCIDENTS

BY AGE OF FEMALE DRIVER

AGE	NY CITY	NY SUBURBS	NY METR. REGION	NY STATE
UNDER 18	363	2,181	2,544	4,728
18 - 20	1,894	6,621	8,515	14,939
21 - 24	3,248	6,426	9,674	16,784
25 - 29	4,108	5,630	9,738	16,240
30 - 39	6,863	9,994	16,857	26,153
40 - 49	4,354	6,937	11,291	16,943
50 - 59	3,544	5,656	9,200	14,060
60 - 64	1,031	1,756	2,787	4,539
65 - 69	1,009	2,187	3,196	6,314
70 - 74	n/a	n/a	n/a	n/a
75 - 79	n/a	n/a	n/a	n/a
80 AND OVER	n/a	n/a	n/a	n/a
UNSPECIFIED AGE	475	182	657	863
TOTAL	26,889	47,570	74,459	121,563

BY AGE OF MALE DRIVER

AGE	NY CITY	NY SUBURBS	NY METR. REGION	NY STATE
UNDER 18	1,826	5,152	6,978	12,312
18 - 20	8,660	13,483	22,143	37,199
21 - 24	13,958	13,394	27,352	43,077
25 - 29	17,483	11,439	28,922	43,058
30 - 39	28,414	16,007	44,421	62,034
40 - 49	18,328	11,166	29,494	40,319
50 - 59	14,998	10,228	25,226	35,140
60 - 64	5,111	3,736	8,847	12,600
65 - 69	6,140	5,287	11,427	17,782
70 - 74	n/a	n/a	n/a	n/a
75 - 79	n/a	n/a	n/a	n/a
80 AND OVER	n/a	n/a	n/a	n/a
UNSPECIFIED AGE	3,240	740	3,980	4,618
TOTAL	118,158	90,632	208,790	308,139

Source: New York State Dept. of Motor Vehicles.

n/a - Data not available

TABLE 15

1990 MOTOR VEHICLE ACCIDENTS

BY AGE OF FEMALE DRIVER

AGE	NY CITY	NY SUBURBS	NY METR. REGION	NY STATE
UNDER 18	612	2,571	3,183	6,063
18 - 20	2,765	6,874	9,639	16,500
21 - 24	4,686	8,230	12,916	20,809
25 - 29	6,498	9,175	15,673	24,543
30 - 39	11,088	14,825	25,913	40,017
40 - 49	7,799	11,680	19,479	28,870
50 - 59	4,128	6,677	10,805	15,957
60 - 64	1,423	2,739	4,162	6,327
65 - 69	1,042	2,050	3,092	5,016
70 - 74	636	1,389	2,025	3,584
75 - 79	361	944	1,305	2,411
80 AND OVER	156	540	696	1,493
UNSPECIFIED AGE	611	329	940	1205
TOTAL	41,805	68,023	109,828	172,795

BY AGE OF MALE DRIVER

AGE	NY CITY	NY SUBURBS	NY METR. REGION	NY STATE
UNDER 18	1,937	4,180	6,117	10,490
18 - 20	9,034	10,730	19,764	30,276
21 - 24	15,951	12,755	28,706	40,584
25 - 29	23,839	14,946	38,785	52,047
30 - 39	37,945	21,681	59,626	80,019
40 - 49	23,250	14,512	37,762	50,997
50 - 59	13,731	9,489	23,220	31,571
60 - 64	5,028	4,430	9,458	13,076
65 - 69	3,636	3,488	7,124	10,250
70 - 74	2,269	2,399	4,668	7,210
75 - 79	1,385	1,500	2,885	4,614
80 AND OVER	971	1,096	2,067	3,405
UNSPECIFIED AGE	4,872	1,356	6,228	7,081
TOTAL	143,848	102,562	246,410	341,620

Source: New York State Dept. of Motor Vehicles.

TABLE 16

1997 MOTOR VEHICLE ACCIDENTS

BY AGE OF FEMALE DRIVER

AGE	NY CITY	NY SUBURBS	NY METR. REGION	NY STATE
UNDER 18	445	2,397	2,842	6,129
18 - 20	1,974	4,746	6,720	12,577
21 - 24	3,503	5,250	8,753	14,871
25 - 29	5,330	6,815	12,145	19,183
30 - 39	10,589	14,308	24,897	38,692
40 - 49	7,564	11,528	19,092	29,915
50 - 59	4,237	7,211	11,448	17,730
60 - 64	1,086	2,055	3,141	4,937
65 - 69	798	1,880	2,678	4,373
70 - 74	619	1,622	2,241	3,749
75 - 79	421	1,170	1,591	2,913
80 AND OVER	251	837	1,088	2,250
UNSPECIFIED AGE	417	263	680	862
TOTAL	37,234	60,082	97,316	158,181

BY AGE OF MALE DRIVER

AGE	NY CITY	NY SUBURBS	NY METR. REGION	NY STATE
UNDER 18	1,184	3,275	4,459	8,820
18 - 20	5,816	7,184	13,000	21,325
21 - 24	10,246	7,599	17,845	26,033
25 - 29	16,227	9,676	25,903	35,439
30 - 39	33,361	19,660	53,021	71,047
40 - 49	22,962	14,650	37,612	52,153
50 - 59	12,821	9,370	22,191	31,296
60 - 64	3,738	3,194	6,932	9,871
65 - 69	2,520	2,798	5,318	7,998
70 - 74	1,899	2,373	4,272	6,623
75 - 79	1,244	1,696	2,940	4,751
80 AND OVER	915	1,438	2,353	3,930
UNSPECIFIED AGE	2,854	957	3,811	4,508
TOTAL	115,787	83,870	199,657	283,794

Source: New York State Dept. of Motor Vehicles.

TABLE 17

VEHICULAR/PEDESTRIAN ACCIDENTS AT INTERSECTION

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	1,597	1,694	1,700	1,695	1,775	1,662	1,704	1,673	1,475	1,484	1,473	1,384	1,356
Kings	3,140	3,271	3,259	3,161	3,287	3,420	3,244	3,216	3,257	3,023	3,059	2,936	2,909
New York	3,289	3,376	3,320	3,365	3,091	3,343	3,195	3,276	3,301	3,256	3,045	3,031	2,977
Queens	1,858	1,795	1,812	1,869	1,881	2,028	1,905	1,915	1,844	1,877	1,978	1,849	1,769
Richmond	194	206	182	193	179	189	189	196	243	206	209	214	188
NEW YORK CITY	10,078	10,342	10,273	10,283	10,213	10,642	10,237	10,276	10,120	9,846	9,764	9,414	9,199
Dutchess	49	52	36	53	43	43	42	37	29	35	43	38	45
Nassau	578	641	605	615	589	600	510	525	530	567	562	551	578
Orange	79	68	79	77	77	86	47	66	38	50	53	55	59
Putnam	8	4	5	8	6	7	8	9	7	13	10	7	5
Rockland	66	66	68	58	60	75	47	62	59	56	69	54	61
Suffolk	352	356	379	341	307	335	311	322	301	309	271	315	283
Westchester	401	397	428	423	373	371	387	363	411	331	335	322	362
NEW YORK SUBURB	1,405	1,464	1,485	1,445	1,335	1,388	1,263	1,281	1,308	1,361	1,343	1,342	1,393
DOWNSTATE NY	11,483	11,806	11,758	11,728	11,548	12,030	11,500	11,557	11,428	11,207	11,107	10,756	10,592
NEW YORK STATE	13,239	13,474	13,430	13,475	13,296	13,831	13,054	13,157	12,888	12,665	12,500	12,070	11,794
Downstate % of NYS	86.7	87.6	87.6	87.0	86.9	87.0	88.1	87.8	88.7	88.5	88.9	89.1	89.8

Source: New York State Dept. of Motor Vehicles.

TABLE 18

VEHICULAR/PEDESTRIAN ACCIDENTS NOT AT INTERSECTION

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	986	984	1,018	1,065	1,024	1,109	1,035	998	942	798	842	760	781
Kings	1,871	1,936	2,022	1,918	1,884	1,807	1,692	1,785	1,815	1,636	1,689	1,546	1,495
New York	1,717	1,736	1,681	1,470	1,590	1,405	1,367	1,439	1,279	1,312	1,356	1,291	1,193
Queens	1,000	1,162	1,133	1,064	1,064	1,155	1,155	1,215	1,061	1,001	983	1,082	930
Richmond	168	181	195	163	160	170	155	156	187	168	167	148	148
NEW YORK CITY	5,742	5,999	6,049	5,680	5,722	5,646	5,404	5,593	5,284	4,915	5,037	4,827	4,547
Dutchess	76	84	87	65	76	58	75	65	71	57	60	62	68
Nassau	544	562	598	570	550	534	482	479	484	495	464	417	448
Orange	127	119	120	115	115	107	118	77	95	136	101	81	83
Putnam	19	27	25	21	22	18	16	19	21	15	10	17	24
Rockland	103	114	101	91	102	99	79	87	77	106	101	84	98
Suffolk	463	517	515	506	472	452	434	401	457	416	378	345	353
Westchester	398	482	469	429	405	339	343	405	359	375	353	330	361
NEW YORK SUBURB	1,527	1,702	1,708	1,617	1,551	1,442	1,354	1,391	1,398	1,600	1,467	1,336	1,435
DOWNSTATE NY	7,269	7,701	7,757	7,297	7,273	7,088	6,758	6,984	6,682	6,515	6,504	6,163	5,982
NEW YORK STATE	9,806	10,173	10,208	9,567	9,508	9,252	8,885	9,094	8,644	8,414	8,141	7,785	7,531
Downstate % of NYS	74.1	75.7	76.0	76.3	76.5	76.6	76.1	76.8	77.3	77.4	79.9	79.2	79.4

Source: New York State Dept. of Motor Vehicles.

TABLE 19

TOTAL VEHICULAR / BICYCLE ACCIDENTS

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	681	690	594	504	442	472	499	516	621	598	715	703	728
Kings	1,827	1,662	1,390	1,211	1,076	1,225	1,352	1,415	1,591	1,608	1,932	1,935	1,856
New York	1,537	1,602	1,416	1,180	1,101	1,159	1,284	1,362	1,563	1,491	1,557	1,570	1,666
Queens	901	873	755	692	610	719	753	796	943	895	995	966	1,009
Richmond	181	158	132	119	95	131	143	147	116	117	132	132	145
NEW YORK CITY	5,127	4,985	4,287	3,706	3,324	3,706	4,031	4,236	4,834	4,709	5,331	5,306	5,404
Dutchess	58	72	78	75	78	74	83	87	75	76	67	65	71
Nassau	942	903	838	758	675	698	830	776	723	685	700	622	646
Orange	103	100	119	90	94	90	120	107	93	79	86	94	90
Putnam	27	15	17	15	17	9	14	10	11	14	11	7	8
Rockland	130	104	113	79	84	93	92	82	58	65	65	71	63
Suffolk	1,006	893	808	755	695	697	644	657	618	589	627	551	601
Westchester	331	326	317	256	235	204	260	244	253	225	251	239	211
NEW YORK SUBURBS	2,597	2,413	2,290	2,028	1,878	1,865	2,043	1,963	1,831	1,733	1,807	1,649	1,690
DOWNSTATE NY	7,724	7,398	6,577	5,734	5,202	5,571	6,074	6,199	6,665	6,442	7,138	6,955	7,094
NEW YORK STATE	10,715	10,339	9,752	8,477	7,885	8,150	8,691	8,516	9,068	8,538	9,341	9,118	9,189
Downstate % of NYS	72.1	71.6	67.4	67.6	66.0	68.4	69.9	72.8	73.5	75.5	76.4	76.3	77.2

Source: New York State Department of Motor Vehicles.

TABLE 20

TOTAL BICYCLIST FATALITIES IN VEHICULAR / BICYCLE ACCIDENTS

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Bronx	1	2	1	3	4	0	4	3	1	0	2	2	3
Kings	12	5	3	10	8	4	14	2	6	5	6	3	10
New York	2	4	6	2	4	5	3	7	4	6	6	8	4
Queens	5	9	5	2	2	4	3	4	3	4	6	3	2
Richmond	0	1	0	2	3	0	0	1	0	0	0	0	1
NEW YORK CITY	20	21	15	19	21	13	24	17	14	15	20	16	20
Dutchess	2	1	1	0	0	0	1	1	0	1	0	0	1
Nassau	2	3	6	3	2	1	3	3	4	7	4	2	2
Orange	0	1	4	0	1	2	2	0	1	0	2	0	1
Putnam	0	0	0	0	1	0	0	1	0	0	0	0	0
Rockland	2	0	2	1	0	0	1	0	0	0	0	2	1
Suffolk	11	9	8	10	11	6	9	6	5	5	6	9	6
Westchester	1	1	2	0	3	1	1	1	2	1	2	0	0
NEW YORK SUBURBS	18	15	23	14	18	10	17	12	12	14	14	13	11
DOWNSTATE NY	38	36	38	33	39	23	41	29	26	29	34	29	31
NEW YORK STATE	64	58	61	48	63	39	74	50	42	47	51	44	49
Downstate % of NYS	59.4	62.1	62.3	68.8	61.9	59.0	55.4	58.0	61.9	61.7	66.7	65.9	63.3

Source: New York State Department of Motor Vehicles.

TABLE 21

TRANSIT ACCIDENTS

Metropolitan Transportation Authority

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
BUS TRANSIT													
MTA/ NEW YORK CITY TRANSIT													
Total Accidents	78	66	49	61	74	69	47	49	63	64	62	46	43
Fatalities	9	10	6	8	13	10	5	4	10	3	5	6	5
Injuries	218	184	206	240	198	325	233	274	243	282	323	273	208
MTA/LONG ISLAND BUS													
Total Accidents	5	9	2	6	6	5	4	4	4	6	1	7	3
Fatalities	4	0	0	2	0	1	0	1	0	0	1	0	0
Injuries	51	26	10	8	7	0	1	18	18	27	0	29	19
TOTAL BUS TRANSIT													
Total Accidents	83	75	51	67	80	74	51	53	67	70	63	53	46
Fatalities	13	10	6	10	13	11	5	5	10	3	6	6	5
Injuries	269	210	216	248	205	325	234	292	261	309	323	302	227
RAIL RAPID TRANSIT													
MTA/ NEW YORK CITY TRANSIT													
Total Accidents	20	26	23	22	26	30	23	21	19	13	12	15	10
Fatalities	3	4	11	5	4	7	18	9	3	4	4	3	3
Injuries	28	49	32	61	132	240	189	105	103	22	126	62	98
MTA/STATEN ISLAND RAILWAY													
Total Accidents	1	0	1	0	1	0	2	0	1	0	1	3	0
Fatalities	0	0	0	0	0	0	0	0	0	0	0	0	0
Injuries	0	0	0	0	0	0	0	0	2	0	0	0	0
TOTAL RAIL RAPID TRANSIT													
Total Accidents	21	26	24	22	27	30	25	21	20	15	13	18	10
Fatalities	3	4	11	5	4	7	18	9	3	4	4	3	3
Injuries	28	49	32	61	132	240	189	105	105	29	126	62	98
SUBURBAN RAIL													
MTA/METRO-NORTH RAILROAD													
Total Accidents	5	2	6	8	1	2	1	2	4	7	4	7	6
Fatalities	0	0	0	2	0	0	1	0	0	0	0	1	0
Injuries	73	0	17	5	0	0	3	1	2	3	20	0	1
MTA/LONG ISLAND RAIL ROAD													
Total Accidents	21	23	21	26	31	13	22	15	18	11	21	26	22
Fatalities	4	6	4	4	5	5	4	3	5	3	5	8	4
Injuries	7	0	1	31	18	6	12	10	1	6	69	15	2
TOTAL SUBURBAN RAIL													
Total Accidents	26	25	27	34	32	15	23	17	22	18	25	33	28
Fatalities	4	6	4	6	5	5	5	3	5	3	5	9	4
Injuries	80	0	18	36	18	6	15	11	3	9	89	15	3
TOTAL TRANSIT ACCIDENTS													
Total Accidents	130	126	102	123	139	119	99	91	109	103	101	104	84
Fatalities	20	20	21	21	22	23	28	17	18	10	15	18	12
Injuries	377	259	266	345	355	571	438	408	369	347	538	379	328

Source: New York State Public Transportation Safety Board.

TABLE 22

TRANSIT ACCIDENTS RATIO

PER MILLION RIDERS

Metropolitan Transportation Authority

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
BUS TRANSIT													
<i>MTA/ NEW YORK CITY TRANSIT</i>	0.155	0.134	0.100	0.124	0.152	0.148	0.103	0.109	0.141	0.142	0.135	0.106	0.102
<i>MTA/LONG ISLAND BUS</i>	0.222	0.400	0.091	0.270	0.265	0.226	0.202	0.220	0.216	0.316	0.054	0.368	0.153
TOTAL BUS TRANSIT	0.158	0.145	0.100	0.130	0.157	0.151	0.107	0.113	0.144	0.149	0.132	0.117	0.104
RAIL RAPID TRANSIT													
<i>MTA/ NEW YORK CITY TRANSIT</i>	0.020	0.025	0.022	0.020	0.024	0.029	0.023	0.021	0.018	0.012	0.011	0.014	0.009
<i>MTA/STATEN ISLAND RAILWAY</i>	0.167	0.000	0.156	0.000	0.161	0.000	0.370	0.000	0.196	0.000	0.196	0.612	0.000
TOTAL RAIL RAPID TRANSIT	0.021	0.025	0.023	0.020	0.025	0.029	0.025	0.021	0.019	0.012	0.012	0.016	0.009
SUBURBAN RAIL													
<i>MTA/METRO-NORTH RAILROAD</i>	0.101	0.039	0.112	0.147	0.018	0.035	0.018	0.035	0.069	0.116	0.066	0.114	0.096
<i>MTA/LONG ISLAND RAIL ROAD</i>	0.278	0.304	0.292	0.346	0.411	0.180	0.313	0.214	0.251	0.150	0.285	0.349	0.290
TOTAL SUBURBAN RAIL	0.208	0.196	0.215	0.262	0.244	0.116	0.182	0.134	0.170	0.135	0.186	0.243	0.202
TOTAL TRANSIT ACCIDENTS	0.078	0.075	0.060	0.071	0.081	0.072	0.062	0.057	0.067	0.061	0.059	0.061	0.049

Source: New York State Public Transportation Safety Board.

TABLE 23

TRANSIT ACCIDENTS RATIO
PER MILLION VEHICLE MILES TRAVELLED
 Metropolitan Transportation Authority

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
BUS TRANSIT													
<i>MTA/ NEW YORK CITY TRANSIT</i>	0.813	0.686	0.504	0.639	0.773	0.748	0.514	0.546	0.711	0.713	0.700	0.482	0.441
<i>MTA/LONG ISLAND BUS</i>	0.568	1.011	0.227	0.652	0.652	0.538	0.430	0.440	0.440	0.659	0.110	0.686	0.313
TOTAL BUS TRANSIT	0.793	0.714	0.481	0.640	0.763	0.728	0.506	0.536	0.686	0.709	0.645	0.502	0.429
RAIL RAPID TRANSIT													
<i>MTA/ NEW YORK CITY TRANSIT</i>	0.073	0.090	0.078	0.072	0.083	0.097	0.078	0.069	0.064	0.043	0.038	0.049	0.032
<i>MTA/STATEN ISLAND RAILWAY</i>	0.435	0.000	0.476	0.000	0.476	0.000	0.952	0.000	0.556	0.000	0.556	1.429	0.000
TOTAL RAIL RAPID TRANSIT	0.075	0.088	0.081	0.071	0.085	0.096	0.084	0.068	0.067	0.043	0.041	0.058	0.031
SUBURBAN RAIL													
<i>MTA/METRO-NORTH RAILROAD</i>	0.163	0.064	0.188	0.232	0.029	0.056	0.029	0.054	0.107	0.186	0.106	0.167	0.138
<i>MTA/LONG ISLAND RAIL ROAD</i>	0.419	0.434	0.407	0.451	0.538	0.229	0.396	0.274	0.330	0.201	0.375	0.476	0.380
TOTAL SUBURBAN RAIL	0.322	0.297	0.323	0.369	0.346	0.163	0.254	0.186	0.239	0.195	0.267	0.342	0.276
TOTAL TRANSIT ACCIDENTS	0.281	0.261	0.210	0.243	0.272	0.236	0.203	0.183	0.224	0.209	0.200	0.203	0.160

Source: New York State Public Transportation Safety Board.