



Children (Aged < 15)

Youngsters (Aged 15-17)

Young People Aged 18-24)

The Elderly (Aged > 64)

Pedestrians

Cyclists

& Mopeds

Car occupants

Motorways

Junctions

Urban areas

Roads outside urban areas

Seasonality

Single vehicle accidents

Gender

Traffic Safety Basic Facts 2011 Gender

Trends in the last decade

In 2009¹, 31.978 people were killed in road traffic accidents throughout the EU-19, a reduction of more than 37% since 2000 (51.202). There is little difference in this positive development by gender overall in the EU-19: the reduction is 39% for females and 37% for males. There are, however, many gender-related differences in individual countries.

Figure 1: Trend of fatalities in EU-19² by gender, 2000-2009¹,



The number of people killed in road accidents in the EU-19 decreased between 2000 and 2009 by 37% for males and 39% for females

> Source: CARE Database Date of Query: December 2011

As shown in Table 1, most countries show a greater reduction for females than for males. The highest reductions above 50% for female fatalities are found in Estonia and Portugal. On the other hand, the number increased only in Romania (13% for both female and male fatalities). The biggest differences between the female and male reductions were in Finland with a female reduction over two times the male reduction (47% compared with 18%) and Greece (female reduction of 43%, male reduction of 25%). But there are also countries where male fatalities decreased more than female fatalities like Luxembourg, where the male reduction was nearly double the female reduction (41% compared with 24%).

It should be noted that data for "unknown" gender are not included in Table 1.



¹ Where a number is missing for an EU19/24 country in a particular year, its contribution to the EU-19/24 total is estimated as the closer known value. ² The country abbreviations used and definition of EU-level are shown on Page 14





Table 2: Fatalities in Europe by country, 2000-2009, by gender

| | gender | 2000 | 2009 | % difference |
|-------|-------------|--------|--------------|--------------|
| DE | female | 367 | 234 | -36% |
| BE | male | 1.102 | 705 | -36% |
| 07 | female | 368 | 225 | -39% |
| CZ | male | 1.118 | 659 | -41% |
| | female | 151 | 91 | -40% |
| DK | male | 347 | 212 | -39% |
| | female | 2.065 | 1.102 | -47% |
| DE | male | 5.434 | 3.050 | -44% |
| | female | 104 | - | - |
| IE | male | 302 | - | - |
| | female | 440 | 250 | -43% |
| EL | male | 1.590 | 1.201 | -24% |
| | female | 1.338 | 621 | -54% |
| ES | male | 4.323 | 2.087 | -52% |
| | female | 1.951 | 1.041 | -47% |
| FR | male | 6.127 | 3.232 | -47% |
| | female | 1.631 | 926 | -47% |
| IT | male | 5.430 | 926 3.311 | -43% |
| | female | 5.430 | 3.311 | -39% |
| LU | | | | |
| | male | 59 | 35 | -41% |
| NL | female | 294 | 175 | -40% |
| | male | 784 | 469 | -40% |
| AT | female | 246 | 155 | -37% |
| AT | male | 730 | 478 | -35% |
| PL | female | - | 1.109 | - |
| | male | - | 3.456 | - |
| PT | female | 347 | 173 | -50% |
| | male | 1.504 | 666 | -56% |
| RO | female | 613 | 694 | 13% |
| | male | 1.853 | 2.102 | 13% |
| SI | female | 73 | 39 | -47% |
| •• | male | 241 | 132 | -45% |
| FI | female | 133 | 71 | -47% |
| | male | 263 | 208 | -21% |
| SE | female | 153 | - | - |
| 02 | male | 438 | - | - |
| UK | female | 914 | 597 | -35% |
| UN | male | 2.666 | 1.740 | -35% |
| | female | 12.527 | 7.702 | - |
| EU-19 | male | 38.513 | 24.228 | - |
| | female | - | 26 | - |
| EE | male | _ | 71 | - |
| | female | - | 42 | |
| LV | male | - | 166 | - |
| | female | _ | 207 | - |
| HU | male | - | 612 | - |
| | female | - | 5 | - |
| MT | | - | 10 | - |
| | male | - | | - |
| SK | female | - | 88 | - |
| | male | - | 296 | - |
| EU-24 | female | - | 368 | - |
| | male | - | 1.155 | - |
| 0.1 | female | - | 80 | - |
| CH | male | - | 269 | - |
| | · · · • • • | 1 | | |
| IS | female | - | 3 | - |

| | Main Fig |
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| Youngsters | .) Aged 18-24) (Aged 15-17) (Aged < 15) N |
| Youna People | Aged 18-24) |
| The Elderly | (Aaed > 64) |
| | Cyclists Pedestrians |
| | Cyclists |
| Motorcycles | & Mopeds |
| Car | nts |
| Heavy Goods | Vehicles and |
| | Motorways |
| | Junctions |
| Urban | areas |
| Roads outside | urban areas |
| | Seasonality |
| Single vehicle | accidents |
| | er |

Source: CARE Database Date of Query: December 2011

The reductions in most countries were greater for female fatalities than for male.

The number of male and female fatalities increased only in Romania.

| * | | * |
|---|---|---|
| | | |
| * | | * |
| | * | |
| | | |

Gend



Figure 1 shows the change in the rate of fatalities per million inhabitants in each EU-19 country between 2000 and 2009¹. Only in Romania an increase was recorded over the decade.

Figure 1: Female fatalities per million inhabitants by country, 2000 and 2009¹



Date of Query: December 2011

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Main Figures

Children (Aged < 15)

Youngsters (Aged 15-17)

Young People Aged 18-24)

The Elderly (Aged > 64)

Pedestrians

Cyclists

Motorcycles & Mopeds

Car occupants

Good

Motorways

Junctions

Urban areas

Roads outside urban areas

Seasonality

Single vehicle accidents

Gender



Figure 3: Male fatalities per million inhabitants by country, 2000 and 20091

It should be noted that for Ireland and Sweden data refers to 2008 rather than 2009 and for Poland 2001 data is used rather for 2000.

Table 2 shows the annual fatality rates per country for 2000 and 2009.

Fatality rates decreased between 2000 and 2009¹ for males and females in all EU-19 countries except Romania.







Children (Aged < 15)

Youngsters (Aged 15-17)

Young People Aged 18-24)

The Elderly (Aged > 64)

Pedestrians

Cyclists

Motorcycles & Mopeds

Car occupants

Heavy Goods Vehicles and Buses

Motorways

Junctions

Urban areas

Roads outside urban areas

Seasonality

Single vehicle accidents

Gender

| Table 3 [.] Fatalities | per million inhabitants b | v country 2000-2009 |
|---------------------------------|---------------------------|----------------------|
| rabic 5. ratantics | | y country, 2000-2003 |

| | gender | 2000 | 2009 | % diferrence |
|------------|----------------|------|------|--------------|
| DE | female | 70 | 43 | -39% |
| BE | male | 220 | 134 | -39% |
| 07 | female | 70 | 42 | -39% |
| CZ | male | 224 | 128 | -43% |
| | female | 56 | 33 | -42% |
| DK | male | 132 | 78 | -41% |
| | female | 49 | 26 | -46% |
| DE | male | 136 | 76 | -44% |
| | female | 55 | - | |
| IE | male | 161 | - | - |
| | female | 80 | 44 | -45% |
| EL | male | 294 | 215 | -27% |
| | female | 65 | 213 | -59% |
| ES | male | 220 | 92 | -58% |
| | female | 63 | 31 | |
| FR | | | | -50% |
| | male | 209 | 104 | -50% |
| IT | female | 56 | 30 | -46% |
| | male | 197 | 114 | -42% |
| LU | female | 77 | 52 | -32% |
| | male | 276 | 143 | -48% |
| NL | female | 37 | 21 | -43% |
| | male | 100 | 58 | -42% |
| AT | female | 60 | 36 | -39% |
| | male | 189 | 118 | -38% |
| PL | female | - | 56 | - |
| | male | - | 188 | - |
| PT | female | 66 | 32 | -52% |
| ГІ | male | 306 | 130 | -58% |
| RO | female | 53 | 63 | 18% |
| RU | male | 169 | 201 | 19% |
| 0 | female | 72 | 38 | -47% |
| SI | male | 248 | 131 | -47% |
| F 1 | female | 50 | 26 | -48% |
| FI | male | 104 | 80 | -24% |
| 05 | female | 34 | - | - |
| SE | male | 100 | - | - |
| | female | 30 | 19 | -37% |
| UK | male | 93 | 57 | -38% |
| | female | 60 | 35 | -42% |
| EU-19 | male | 185 | 114 | -38% |
| | female | - | 36 | |
| EE | | | 115 | - |
| | male female | - | 34 | - |
| LV | | - | 156 | - |
| | male | - | | - |
| HU | female | - | 39 | - |
| | male | - | 128 | - |
| MT | female | - | 24 | - |
| | male | - | 49 | - |
| SK | female | - | 32 | - |
| | male | - | 113 | - |
| EU-24 | female | - | 34 | - |
| L0-24 | male | - | 114 | - |
| 10 | female | - | 19 | - |
| IS | male | - | 86 | - |
| | female | - | 20 | - |
| СН | male | | 71 | - |

Spain has the greatest reduction of fatalities per million inhabitants (59% for females and 58% for males)

> Source: CARE Database Date of Query: December 2011







Children (Aged < 15)

Youngsters (Aged 15-17)

Young People Aged 18-24)

The Elderly (Aged > 64)

Pedestrians

Cyclists

Motorcycles & Mopeds

Car occupants

Heavy Goods Vehicles and

Motorways

Junctions

Urban areas

Roads outside urban areas

Seasonality

Single vehicle accidents

Gender

Traffic Safety Basic Facts 2011

The relationship between male and female fatalities

Beside the trends presented above over the last ten years, one fact is obvious from the tables: far more males than females are killed in road accidents. Figure 4 shows the clear difference between the male and female fatality rates: less than one quarter of all fatalities is female fatalities.

Figure 4: Fatalities and fatality rates by gender, EU-24, 2009¹



Date of Query: December 2011

Figure 5 shows that the high proportion of fatalities who were male slightly increased in EU-19 within the last decade, from 75% to 76%. The highest increases were noted in Finland (from 66% in 2000 to 75% in 2009) and Greece (from 78% to 82%). Greece also had the highest male percentage in Europe in 2009. On the other hand, the highest decrease was observed in Sweden, Portugal and Czech Republic.

Figure 5: Percentage of fatalities who were male, EU-19, 2000 and 20091



Source: CARE Database Eurostat for population data Date of Query: December 2011

The male fatality rate is more than three times the respective female rate

76% of all road accident fatalities in the EU-24 were male in 2009¹

The high male fatality rate increased in EU-19 from 75% in 2000 to 76% in 2009¹

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Figure 6: Change in number of fatalities between 2000 and 2009¹, by gender, EU-19



Date of Query: December 2011

DaCoTA

Main Figures

Children (Aged < 15)

Youngsters (Aged 15-17)

Young People Aged 18-24)

The Elderly (Aged > 64)

Pedestrians

Cyclists

Motorcycles & Mopeds

Car occupants

Heavy Goods Vehicles and

Motorways

Junctions

Urban areas

Roads outside urban areas

Seasonality

Single vehicle accidents

Gender

Map 1 shows a geographical representation of the ratios between the male and female fatality counts. There is a slight tendency for rates to be higher in the south, and the highest male ratios were recorded in Greece, Portugal and Italy.

Map 1: Fatality rates: Fatalities in Europe per million inhabitants, 20091



Source: CARE Database/EC

The highest male fatality proportions in 2009¹ were recorded in Portugal, Slovenia, Slovakia and the Mediterranean countries (Greece, Italy and Spain)

Mobility & Transport





Main Figures

Children (Aged < 15)

Youngsters (Aged 15-17)

Young People Aged 18-24)

The Elderly (Aged > 64)

Pedestrians

Cyclists

Motorcycles & Mopeds

Car occupants

Heavy Goods Vehicles and Buses

Motorways

Junctions

Urban areas

Roads outside urban areas

Seasonality

Single vehicle accidents

Gender

Age and Gender

The ratio between male and female fatalities increases from the younger age groups and reaches the peak of 84% male fatalities at ages 25 to 34. Figure 7 shows that about four fifths of 15-54 year olds fatalities were men: over all ages, 76% of fatalities were male. This reflects a very gender-specific development in the travel behaviour of men and women in Europe, beginning from the age of 15 years.





Source: CARE Database Date of Query: December 2011

Mode of transport and Gender

The male and female distributions of fatalities by road user type also differ (see Figure 8). In 2009¹ more women were killed in passenger cars, contrary to men where one fifth of fatalities were motorcycle riders. Additionally, almost twice than men female fatalities were recorded as pedestrians.





Source: CARE Database Date of Query: October 2011

Detailed results for person class for males and females are presented in Figures 9, 10 and Table 4.



7/14





Main Figures Children (Aged < 15) Youngsters (Aged 15-17) Young People Aged 18-24) The Elderly (Aged > 64) Pedestrians Cyclists à Motorcycles & Mopeds Car occupants Vehicles and Heavy Goods Motorways

> Junctions Urban areas Roads outside urban areas

The proportion of fatalities in passenger cars or pedestrians is higher for females than for males





Source: CARE Database Date of query: December 2011





Date of query: December 2011







Children (Aged < 15)

Youngsters (Aged 15-17)

Young People Aged 18-24)

The Elderly (Aged > 64)

| Country | Gender | Driver | Passenger | Pedestrian | Total |
|---------|--------|--------|-----------|------------|--------|
| BE | female | 49% | 28% | 23% | 232 |
| DE | male | 83% | 10% | 7% | 705 |
| 07 | female | 34% | 33% | 33% | 225 |
| CZ | male | 71% | 15% | 14% | 658 |
| | female | 49% | 24% | 26% | 91 |
| DK | male | 72% | 15% | 13% | 212 |
| | female | 48% | 30% | 22% | 1.102 |
| DE | male | 79% | 10% | 11% | 3.050 |
| | female | 19% | 42% | 38% | 26 |
| EE | male | 62% | 21% | 17% | 71 |
| | female | 48% | 21% | 23% | 71 |
| IE | male | 67% | 17% | 16% | 199 |
| | | | | | |
| EL | female | 18% | 54% | 28% | 250 |
| | male | 77% | 13% | 11% | 1.201 |
| ES | female | 31% | 42% | 28% | 621 |
| | male | 72% | 14% | 14% | 2.087 |
| FR | female | 45% | 34% | 20% | 1.041 |
| | male | 79% | 12% | 9% | 3.232 |
| IT | female | 34% | 35% | 31% | 926 |
| | male | 79% | 9% | 11% | 3.311 |
| LV | female | 33% | 31% | 36% | 42 |
| LV | male | 55% | 17% | 27% | 166 |
| | female | 23% | 31% | 46% | 13 |
| LU | male | 69% | 14% | 17% | 35 |
| | female | 29% | 34% | 38% | 207 |
| HU | male | 70% | 12% | 17% | 612 |
| | female | 0% | 60% | 40% | 5 |
| MT | male | 80% | 0% | 20% | 10 |
| | female | 58% | 24% | 18% | 175 |
| NL | male | 83% | 11% | 7% | 468 |
| | female | 41% | 34% | 25% | 155 |
| AT | | | | | |
| | male | 75% | 12% | 13% | 478 |
| PL | female | 24% | 35% | 41% | 1.109 |
| | male | 55% | 16% | 29% | 3.456 |
| PT | female | 26% | 45% | 28% | 173 |
| | male | 70% | 15% | 15% | 666 |
| RO | female | 12% | 41% | 48% | 694 |
| | male | 46% | 21% | 33% | 2.102 |
| SI | female | 26% | 49% | 26% | 39 |
| | male | 76% | 13% | 11% | 131 |
| SK | female | 18% | 45% | 36% | 88 |
| OR | male | 55% | 18% | 27% | 296 |
| E1 | female | 42% | 42% | 15% | 71 |
| FI | male | 74% | 17% | 9% | 208 |
| 0.5 | female | 50% | 28% | 22% | 110 |
| SE | male | 82% | 11% | 7% | 283 |
| | female | 37% | 32% | 31% | 597 |
| UK | male | 67% | 14% | 19% | 1.740 |
| | female | 35% | 35% | 30% | 8.070 |
| EU-24 | | | | | |
| | male | 70% | 13% | 16% | 25.390 |
| IS | female | 0% | 67% | 33% | 3 |
| | male | 64% | 29% | 7% | 14 |
| СН | female | 53% | 16% | 31% | 80 |
| 011 | male | 76% | 11% | 13% | 269 |

Table 4: Number of male and female fatalities by person class, EU-24, 20091

Source: CARE Database Date of query: December 2011

The proportion of male fatalities who were drivers exceeded 80% in Belgium, Netherlands and Sweden in 2009¹



Single vehicle accidents Gender

Mobility & Transport

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9/14





Main

Children (Aged < 15)

Youngsters (Aged 15-17)

Young People Aged 18-24)

The Elderly (Aged > 64)

Pedestrians

Cyclists

Motorcycles & Mopeds

Car occupants

> Vehicles and Buses

> > Motorways

Junctions

Urban areas

Roads outside urban areas

Seasonality

Single vehicle accidents

Gender

Heavy Goods

The proportion of fatalities who were drivers is much higher for males than for females. The male proportion exceeds 80% in some countries, whereas the highest female proportion is near 50% of all accidents with the exception of the Netherlands (58%). Female proportions as passengers or pedestrians are higher than male proportions in all countries. For the EU-24, 35% of all female fatalities were passengers compared with 13% of males; 31% of all female fatalities were pedestrians compared with 16% of males.

Accident Causation

During the EC SafetyNet project, in-depth data were collected using a common methodology for samples of accidents that occurred in Germany, Italy, The Netherlands, Finland, Sweden and the UK^{3 4}. The SafetyNet Accident Causation Database was formed between 2005 and 2008, and contains details of 1.006 accidents covering all injury severities. A detailed process for recording causation (SafetyNet Accident Causation System – SNACS) attributes one specific critical event to each driver, rider or pedestrian. Links then form chains between the critical event and the causes that led to it. For example, the critical event of late action could be linked to the cause observation missed, which was a consequence of fatigue, itself a consequence of an extensive driving spell.

In the database, 71% of the drivers or riders are male and 28% are female (1% are unknown). The male mean age is 41 years old; 62% are car drivers, 12% powered two wheeler riders and 11% HGV drivers. The female mean age is 40 years old; 82% are car drivers and 10% bicycle riders. Figure 11Figure compares the distribution of specific critical events for male drivers/riders to the distribution for females.



Figure 11: Distribution of specific critical events for drivers or riders by gender

³ SafetyNet D5.5, Glossary of Data Variables for Fatal and Accident Causation Databases
⁴ SafetyNet D5.8, In-Depth Accident Causation Database and Analysis Report

'Surplus speed' and 'incorrect direction' are recorded more frequently for male drivers/riders than females.







Children (Aged < 15)

Youngsters (Aged 15-17)

Young People Aged 18-24)

The main differences for the most frequently recorded specific critical events are that surplus speed and incorrect direction (includes going off the road instead of following the lane) are recorded more frequently for male drivers/riders and premature action is recorded more frequently for female drivers/riders.

Table 5 gives the most frequent links between causes for male drivers/riders. For this group there are 1.378 such links in total.

Table 5: Ten most frequent links between causes – male drivers/riders

| Links between causes | Frequency |
|---|-----------|
| Faulty diagnosis - Information failure (between driver and traffic environment or driver and vehicle) | 232 |
| Observation missed - Temporary obstruction to view | 83 |
| Observation missed - Distraction | 78 |
| Inadequate plan - Insufficient knowledge | 75 |
| Observation missed - Faulty diagnosis | 72 |
| Faulty diagnosis - Communication failure | 66 |
| Observation missed - Permanent obstruction to view | 62 |
| Observation missed - Inadequate plan | 56 |
| Observation missed - Inattention | 56 |
| Inadequate plan - Under the influence of substances | 43 |
| Others | 555 |
| Total | 1.378 |

Source: SafetyNet Accident Causation Database 2005 to 2008 / EC Date of query: 2010

Table 5 gives both an indication of the most frequently recorded causes and the most frequently recorded links between them. Faulty diagnosis and observation missed are the two dominant causes for this group. Faulty diagnosis is linked to both information and communication failure and the causes leading to observation missed can be seen to fall into two groups, physical 'obstruction to view' type causes and driver/rider functional failures.

Inadequate plan can also be seen to be frequently recorded, most often with a link to insufficient knowledge but also linked with under the influence of substances.

As expected, with male drivers being such a high proportion of the database, the links between causes are similar to the results for car drivers overall.

17% of the links for male drivers and riders between causes are observed to be between 'faulty diagnosis' and 'information failure'.







Table 6 gives the most frequent links between causes for female drivers/riders. For this group there are 522 such links in total.

Table 6: Ten most frequent links between causes - female drivers/riders

| | - | |
|---|-----------|--|
| Links between causes | Frequency | |
| Faulty diagnosis - Information failure (between driver and traffic environment or driver and vehicle) | 91 | |
| Observation missed - Distraction | 40 | |
| Observation missed - Temporary obstruction to view | 33 | |
| Observation missed - Faulty diagnosis | 31 | |
| Observation missed - Permanent obstruction to view | 30 | |
| Inadequate plan - Insufficient knowledge | 28 | |
| Faulty diagnosis - Communication failure | 26 | |
| Observation missed - Inadequate plan | 24 | |
| Observation missed - Inattention | 18 | |
| Information failure (between driver and traffic environment or driver and vehicle) - State of road | 13 | |
| Others | 188 | |
| Total | 522 | |
| Source: SafetyNet Accident Causation Database 2005 to 2008 / E | | |

Date of query: 2010

The causal links for female drivers/riders are very similar to those for male drivers/riders, although, as Figure 11 shows, they do not always lead to the same critical events.

Looking at the ten most frequent links between causes for females, under the influence of substances does not feature (as with the male group), but state of the road can be seen (current road-holding characteristics) leading to information failure. Main Figures

Children (Aged < 15)

Urban areas

Single vehicle accidents

Gender



Mobility & Transport

12/14





Children (Aged < 15)

Youngsters (Aged 15-17)

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For more information

Further statistical information about fatalities is available from the CARE database at the Directorate General for Energy and Transport of the European Commission, 28 Rue de Mot, B -1040 Brussels.

Traffic Safety Basic Fact Sheets available from the European Commission concern:

- Main Figures •
- Children (Aged <15) •
- Youngsters (Aged 15-17) •
- Young People (Aged 18-24) •
- The Elderly (Aged >64) •
- Pedestrians •
- **Bicycles** •
- Motorcycles and Mopeds •
- Car occupants •
- Heavy Goods Vehicles •
- Motorways
- Junctions •
- Roads in urban areas •
- Roads outside urban areas •
- Seasonality •
- Single vehicle accidents •
- Gender •



13/14

Seasonality

Single vehicle accidents

Gender



Country abbreviations used and definition of EU-level

| EU - | 19 |
|------|----|
|------|----|

EU-24= EU-19 +

| r | | |
|----|----------------|---|
| BE | Belgium | E |
| CZ | Czech Republic | L |
| DK | Denmark | Н |
| DE | Germany | Μ |
| IE | Ireland | S |
| EL | Greece | |
| ES | Spain | |
| FR | France | |
| IT | Italy | |
| LU | Luxembourg | |
| NL | Netherlands | |
| AT | Austria | |
| PL | Poland | |
| PT | Portugal | |
| RO | Romania | |
| SI | Slovenia | |
| FI | Finland | |
| SE | Sweden | |
| UK | United Kingdom | |

| EE | Estonia |
|----|----------|
| LV | Latvia |
| HU | Hungary |
| MT | Malta |
| SK | Slovakia |

Detailed data on traffic accidents are published annually by the European Commission in the Annual Statistical Report. This includes a glossary of definitions on all variables used.

More information on the DaCoTA Project, co-financed by the European Commission, Directorate-General for Mobility and Transport is available at the DaCoTA Website: <u>http://www.dacota-project.eu/index.html</u>.

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DaCoTA

Main Figures

Children (Aged < 15)

Youngsters (Aged 15-17)

Young People Aged 18-24)

The Elderly (Aged > 64)

Pedestrians

Cyclists

Motorcycles & Mopeds

Car occupants

Heavy Goods Vehicles and Buses

Motorways

Junctions

Urban areas

Roads outside urban areas

Seasonality

Single vehicle accidents

Gender