



Traffic Safety Basic Facts 2008

Car Occupants

In this fact sheet car drivers as well as car passengers are discussed. In case no distinction is made between drivers and passengers, the word occupants will be used.

In 2006¹, 12.606 car occupants were killed in road traffic accidents in the EU-14². This represents half of all fatalities. Of these 8.698 were drivers. Table 1 and Table 2 present the annual data by country which are available from CARE since 1997.

From Table 1 it can be derived that for the EU-14 countries in 2006 7,7% less car driver fatalities are reported than in 2005. There was a reduction of 31,1% during 1997-2006 for the same countries.

For car passengers the reduction is even larger: 10,1% with respect to 2005 and 38,8% during 1997-2006.

Table 1: The number of car driver fatalities by country, 1997-2006

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
BE	642	670	644	697	662	592	532	491	471	467
CZ	-	-	-	-	-	-	-	-	-	373
DK	194	193	186	146	168	170	167	135	122	100
EE	-	-	-	-	-	-	-	-	54	69
EL	537	567	536	571	508	505	527	506	518	500
ES	1.827	2.047	1.981	2.032	1.971	1.919	2.044	1.688	1.564	1.377
FR	3.673	4.011	3.786	3.711	3.751	3.485	2.635	2.445	2.228	1.902
IE	131	157	157	173	139	133	110	-	-	-
IT	2.483	2.401	2.577	2.427	2.444	2.359	2.048	1.867	-	-
LU	34	36	38	40	36	38	-	-	-	-
HU	-	-	-	-	-	-	375	373	372	386
MT	-	-	-	-	-	-	-	-	2	5
NL	398	401	378	362	351	341	345	-	-	-
AT	486	395	421	406	417	373	371	368	331	287
PL	-	-	-	-	-	-	-	-	1.467	-
PT	580	508	490	407	381	397	393	319	303	237
FI	163	157	179	159	181	183	150	151	162	154
SE	254	258	262	285	261	271	253	201	194	192
UK	1.217	1.176	1.138	1.169	1.217	1.199	1.222	1.164	1.166	1.122
EU-14 ¹	12.618	12.978	12.773	12.585	12.488	11.965	10.835	9.829	9.419	8.698
Yearly¹ change		2,8%	-1,6%	-1,5%	-0,8%	-4,2%	-9,4%	-9,3%	-4,2%	-7,7%

EU-14 totals can differ due to rounding because of the use of coefficients in order to arrive to fatalities at 30 days

Source: CARE Database / EC
Date of query: August 2008

¹ Using latest data available, i.e. 2006 for all countries except LU (2002), IE and NL (2003) IT (2004), PL (2005) and UK = GB (2006) + NI (2005). The data for the New EU countries CZ, EE, HU, MT and PL are not included in total trends because they are only available for a few years.

² See table Definitions of EU-level and used Country abbreviations on page 11.

Half of all road fatalities in the EU-14 countries are car occupants.

A reduction of 31% in the number of car driver fatalities is observed during the last decade in the EU-14 countries.





Table 2: The number of car passenger fatalities by country, 1997-2006

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
BE	202	266	207	225	237	187	156	132	153	122
CZ	-	-	-	-	-	-	-	-	-	194
DK	65	70	85	89	73	76	69	51	47	38
EE	-	-	-	-	-	-	-	-	30	34
EL	359	344	350	351	295	288	234	269	298	222
ES	1.165	1.237	1.212	1.256	1.172	1.185	1.167	1.003	826	718
FR	1.684	1.792	1.669	1.579	1.532	1.379	1.054	924	837	725
IE	89	96	79	89	92	69	64	-	-	-
IT	1.242	1.115	1.219	1.244	1.254	1.207	1.083	957	-	-
LU	12	7	11	14	15	14	-	-	-	-
HU	-	-	-	-	-	-	265	233	248	244
MT	-	-	-	-	-	-	-	-	1	0
NL	147	149	161	151	126	138	137	-	-	-
AT	180	170	194	143	153	151	153	112	101	97
PL	-	-	-	-	-	-	-	-	1.059	-
PT	420	414	331	325	255	313	237	218	192	138
FI	84	75	72	65	81	84	67	70	69	49
SE	94	69	110	108	112	108	96	87	77	65
UK*	642	603	625	601	599	633	619	593	578	562
EU-14 ¹	6.384	6.406	6.324	6.240	5.996	5.833	5.150	4.630	4.349	3.908
Yearly ¹ change		0,3%	-1,3%	-1,3%	-3,9%	-2,7%	-11,7%	-10,1%	-6,1%	-10,1%

* UK (2006) = GB (2006) + NI (2005)

Source: CARE Database / EC
Date of query: August 2008

In order to account for the differing size of these countries, Table 3 presents the car occupant fatality rates for 2006¹. This rate is defined as the number of car occupant fatalities per million inhabitants.

Table 3: Car occupant fatality rates per country, 2006

Fatalities per million population	Drivers	Passengers	Occupants
BE	44,4	11,6	56,0
CZ	36,4	18,9	55,3
DK	18,4	7,0	25,4
EE	51,3	25,3	78,8
EL	44,9	20,0	64,9
ES	31,5	16,4	47,9
FR	30,2	11,5	41,7
IE***	26,1	15,2	41,3
IT**	31,8	16,3	48,1
LU****	81,0	29,8	110,9
HU	38,3	24,2	62,5
MT	12,3	0,0	12,3
NL***	21,1	8,4	29,6
AT	34,7	11,7	46,5
PL*	38,4	27,8	66,2
PT	22,4	13,1	35,5
FI	29,3	9,3	38,6
SE	21,2	7,2	28,8
UK*	18,6	9,3	27,9
EU-19	28,3	12,7	41,1

* Data from 2005

*** Data from 2003

Source: CARE Database / EC

UK = GB (2006) + NI (2005)

** Data from 2004

**** Data from 2002

Date of query: August 2008





Approximately twice as many car drivers are killed in traffic accidents than car passengers.

The rate varies between 29 killed car occupants per million in the United Kingdom to approximately 40-50 in most of the countries. Extreme values in small countries shows that this ratio is very sensitive for small fluctuations in small numbers and is hence not very reliable in these cases.

Table 4 presents the number of car occupant fatalities as a percentage of the total number of traffic fatalities in each country. The average is about half with small deviations per country.

Table 4: Car occupant fatalities as percentage of the total number of traffic fatalities by country, 2006

	Drivers	Passengers	Occupants
BE	43,7%	11,4%	55,1%
CZ	35,1%	18,3%	53,3%
DK	32,7%	12,4%	45,1%
EE	33,8%	16,7%	52,0%
EL	30,2%	13,4%	43,6%
ES	33,6%	17,5%	51,0%
FR	40,4%	15,4%	55,8%
IE***	32,6%	19,0%	51,6%
IT**	33,2%	17,0%	50,2%
LU****	61,3%	22,6%	83,9%
HU	29,6%	18,7%	48,3%
MT	45,5%	0,0%	45,5%
NL***	33,6%	13,3%	47,0%
AT	39,3%	13,3%	52,6%
PL*	26,9%	19,5%	46,4%
PT	24,5%	14,2%	38,7%
FI	45,8%	14,6%	60,4%
SE	43,1%	14,6%	58,7%
UK*	33,9%	17,0%	50,9%
EU-19	35,2%	15,8%	51,1%

* Data from 2005

UK = GB (2006) + NI (2005)

** Data from 2004

*** Data from 2003

**** Data from 2002

Source: CARE Database / EC

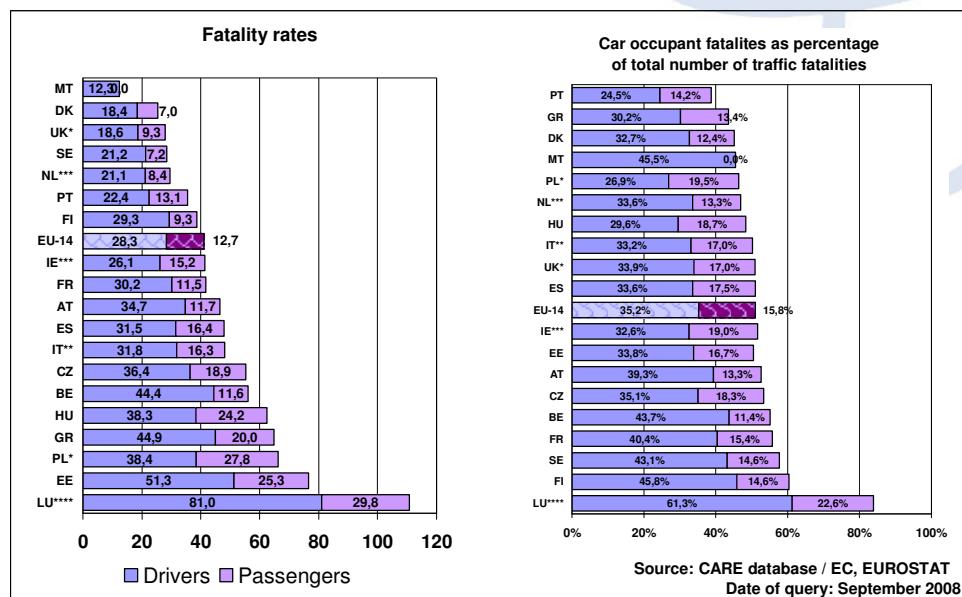
Date of query: August 2008

The data from Table 3 and Table 4 are illustrated in Figure 1. As noted, small variations in the number of fatalities in case of small numbers, yields extreme ratio's.





Figure 1: Car occupant fatalities per 1.000.000 inhabitants and as a percentage of the total number of traffic fatalities by country, 2006



* Data PL, NI from 2005

** Data IT from 2004 *** Data IE, NL from 2003

**** Data LU from 2002

83% of all car driver fatalities are males.

For car passenger fatalities 53% are males.

The proportion of killed females drivers varies between 8% and 22%.



Age and Gender of car occupant fatalities

Table 5 and Table 6 present the percentage of car driver and passenger fatalities per age group and gender.

Table 5: Percentage of car driver fatalities by age and gender, 2006

Age group	15-24		25-39		40-59		60+		Un known	% fem. from known	
	gender	fem.	male	fem.	male	fem.	male	fem.	male		
BE		1,9	18,8		6,9	27,8		5,6	23,8		0,6
CZ		2,9	18,5		3,8	25,5		4,0	27,1		1,1
DK		5,0	27,0		3,0	18,0		5,0	20,0		20,0
EE		0,0	31,9		8,7	26,1		2,9	20,3		0,0
EL		1,2	18,2		4,0	34,2		2,2	22,4		1,4
ES		3,2	14,0		6,2	32,1		4,6	23,4		0,4
FR		4,4	19,3		5,4	21,7		7,5	17,0		23,1
IE***		4,5	23,6		4,5	25,5		3,6	18,2		4,5
IT**		2,4	15,8		5,8	26,8		3,5	19,6		2,0
LU****		2,6	10,5		7,9	44,7		2,6	26,3		0,0
HU		1,0	11,9		8,3	31,9		5,2	27,2		0,8
MT		0,0	60,0		0,0	40,0		0,0	0,0		0,0
NL***		4,1	22,6		4,6	27,5		4,6	19,7		0,0
AT		4,9	23,7		5,2	20,2		8,0	19,9		22,3
PL*		1,8	24,2		4,2	32,5		2,7	25,4		0,8
PT		1,0	10,6		6,3	30,3		1,4	22,1		11,8
FI		1,9	24,7		5,2	14,3		7,8	22,1		20,1
SE		4,7	19,3		4,7	18,8		4,2	22,9		18,2
UK*		5,6	27,9		5,1	19,9		5,6	16,6		21,2
EU-19		3,1	19,5		5,4	26,7		4,7	21,1		1,1
											16,3

* Data from 2005

UK = GB (2006) + NI (2005)

** Data from 2004

*** Data from 2003

**** Data from 2002

Source: CARE Database / EC

Date of query: August 2008



Children account for
7% of all car
passenger fatalities.

The share of
females among
killed passengers
does not vary much
over the countries.

Among older
passengers there
are much more
females.



It can be derived from Table 5 that the proportion of all killed drivers who were female varies between 8% in Greece to 22% in Austria. The distribution of driver fatalities over the age groups also varies between countries. High proportions of older drivers can be found in France, Italy, Portugal and Sweden.

For all countries and age groups the number of driver fatalities is lower for females than for males.

Table 6: Percentage of car passenger fatalities by age and gender, 2006

Age group	0-14		15-24		25-39		40-59		60+		Un known	% fem. from known
	gender	fem.	male	gender	fem.	male	gender	fem.	male	gender	fem.	male
BE	4,9	4,9	11,5	23,8	5,7	15,6	6,6	7,4	11,5	7,4	0,8	40,5
CZ	1,5	5,2	12,4	21,6	9,3	18,0	8,2	7,2	11,3	5,2	0,0	42,8
DK	5,3	0,0	10,5	31,6	2,6	15,8	10,5	0,0	15,8	7,9	0,0	44,7
EE	2,9	5,9	8,8	17,6	2,9	17,6	8,8	17,6	11,8	5,9	0,0	35,3
EL	2,3	4,5	6,3	18,5	9,0	13,5	9,0	8,1	18,9	6,8	3,2	47,0
ES	3,2	5,6	8,9	18,1	10,3	15,0	8,5	5,7	17,7	5,7	1,3	49,2
FR	4,0	5,5	12,1	23,3	5,2	10,5	7,4	6,2	18,8	5,5	1,4	48,3
IE***	6,3	3,1	17,2	26,6	4,7	15,6	4,7	3,1	10,9	1,6	6,3	46,7
IT**	3,2	3,0	8,5	22,3	7,9	11,6	7,9	5,2	14,6	5,5	10,1	47,0
LU****	0,0	14,3	14,3	42,9	7,1	14,3	7,1	0,0	0,0	0,0	0,0	28,6
HU	3,7	5,7	6,6	15,2	8,2	20,5	11,9	15,2	8,6	4,1	0,4	39,1
MT	0	0	0	0	0	0	0	0	0	0	0	-
NL***	5,1	8,0	18,2	22,6	1,5	12,4	4,4	4,4	14,6	5,1	3,6	45,5
AT	5,2	9,3	7,2	18,6	6,2	8,2	8,2	14,4	15,5	7,2	0,0	42,3
PL*	2,5	2,9	12,0	21,4	8,0	16,5	10,7	11,3	7,4	3,6	3,7	42,1
PT	0,8	5,0	12,4	14,9	9,9	14,0	10,7	7,4	9,1	9,1	6,6	46,0
FI	6,1	0,0	10,2	30,6	10,2	10,2	12,2	6,1	14,3	0,0	0,0	53,1
SE	1,5	7,7	10,8	24,6	6,2	10,8	10,8	9,2	12,3	6,2	0,0	41,5
UK*	3,6	3,9	14,6	31,0	4,4	10,5	6,4	3,6	16,4	5,5	0,2	45,5
EU-19	3,2	4,4	10,9	22,1	7,3	13,7	8,6	7,4	13,8	5,2	3,4	45,4

* Data from 2005

*** Data from 2003

Source: CARE Database / EC

UK = GB (2006) + NI (2005)

Date of query: August 2008

** Data from 2004

**** Data from 2002

The proportion of male or female car passengers does not vary much within the EU, exceptions being caused by small numbers. In the age groups 15-24 and 25-39 the number of male passengers is almost twice the number of females. For older passengers the number of females is almost three times bigger than the number of males.



Car occupant fatalities by type of road

The CARE data show whether accidents occurred on motorways and, for non-motorway accidents, whether on urban or rural roads. Table 7 shows the number of car occupant fatalities by road and by area type.

Table 7: The number of car occupant fatalities by road type and area type, 2006

	Inside urban area	Outside urban area		Total
		Non motorway	Motorway	
BE	89	373	127	589
CZ	157	391	19	567
DK	17	110	11	138
EE	12	94	0	106
EL	224	415	83	722
ES	154	1.799	142	2.095
FR	405	2.031	191	2.627
IE***	28	140	6	174
IT**	785	1.601	438	2.824
LU****	15	25	12	52
HU	147	440	43	630
MT	5	0	0	5
NL***	78	297	108	483
AT	61	271	52	384
PL*	808	1.695	23	2.526
PT	138	194	43	375
FI	26	164	13	203
SE	35	215	11	261
UK*	440	1.115	129	1.684
EU-19	3.624	11.370	1.451	16.445
%	22,0%	69,1%	8,8%	100%

* Data from 2005

UK = GB (2006) + NI (2005)

** Data from 2004

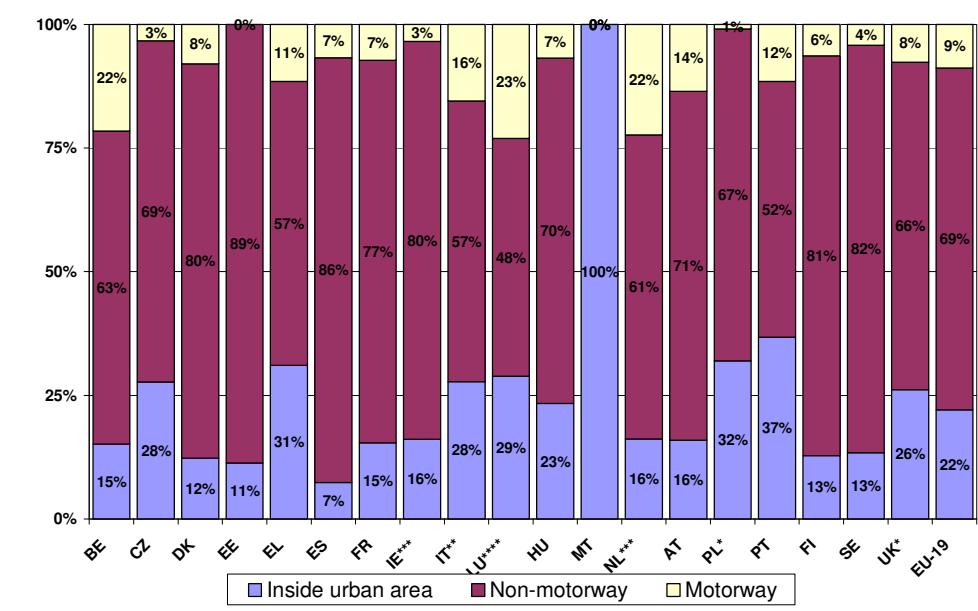
*** Data from 2003

**** Data from 2002

Source: CARE Database / EC
Date of query: August 2008

The data from Table 7 are illustrated below.

Figure 2: The percentage of car occupant fatalities by road and area type in 2006





The number of car occupant fatalities is highest between 16 and 20 hours.



Time of day and day of the week

The CARE database contains the time of day and day of the week for each accident. Table 8 divides the day into six equal segments of four hours to show how car occupant fatalities are distributed through the day.

Table 8: The number of car occupant fatalities by time of day, 2006

	am			pm		
	00 – 03:59	04 – 07:59	08 – 11:59	12 – 15:59	16 – 19:59	20 – 23:59
BE	119	116	67	73	95	119
CZ	66	93	99	126	101	81
DK	10	17	16	42	22	31
EE	12	21	17	23	13	20
EL	116	138	86	114	148	120
ES	210	332	342	388	485	338
FR	320	426	392	470	590	429
IE***	35	23	13	23	40	35
IT**	532	477	383	399	560	449
LU****	12	8	3	11	10	8
HU	64	110	95	139	120	102
MT	2	0	1	0	0	2
NL***	64	73	71	95	100	80
AT	50	70	54	78	75	57
PL*	321	384	411	483	493	434
PT	59	78	48	65	80	46
FI	32	28	30	47	41	25
SE	35	39	42	56	57	32
UK*	248	173	218	312	376	357
EU-19	2.307	2.606	2.388	2.944	3.406	2.765
%	14,0%	15,8%	14,5%	17,9%	20,7%	16,8%

* Data from 2005
UK = GB (2006) + NI (2005)

** Data from 2004

*** Data from 2003

**** Data from 2002

Source: CARE Database / EC
Date of query: August 2008

The highest numbers of car occupant fatalities are counted between 16 and 20 hours. In Belgium, Ireland and Italy many fatalities are counted during the nights (0-4 am).





Table 9 shows the number of car occupant fatalities by day of the week. All countries have more fatalities per day at the weekend than on weekdays, only in Sweden the number is equal. The weekend peak is more pronounced in Estonia, Ireland, Italy and Portugal.

Table 9: The number of car occupant fatalities by day of week, 2006

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
BE	89	76	52	60	82	123	107
CZ	70	77	77	61	109	100	73
DK	17	12	13	15	28	32	21
EE	8	12	12	9	14	32	19
EL	100	76	96	67	104	123	156
ES	283	218	216	221	320	421	416
FR	310	306	316	311	404	460	520
IE***	27	16	15	19	22	31	44
IT**	327	301	270	344	393	564	625
LU****	7	3	8	6	9	15	4
HU	94	86	72	75	89	121	93
MT	2	0	1	1	0	1	0
NL***	68	50	50	64	71	97	83
AT	46	49	43	54	63	68	61
PL*	299	279	284	312	376	434	542
PT	47	42	36	35	58	71	86
FI	23	19	37	28	28	48	20
SE	29	42	29	27	59	44	31
UK*	213	190	189	228	256	300	308
EU-19	2.059	1.854	1.816	1.937	2.485	3.085	3.209
%	12,5%	11,3%	11,0%	11,8%	15,1%	18,8%	19,5%

* Data from 2005

UK = GB (2006) + NI (2005)

** Data from 2004

*** Data from 2003

**** Data from 2002

Source: CARE Database / EC

Date of query: August 2008

The proportion of car occupant fatalities occurring at the weekend is highest in Estonia, Ireland and Italy.

Table 10 shows the proportion of car occupant fatalities by time of day and day of the week for all 18 countries together in 2006. If the fatalities were distributed equally over time of the day and day of the week, you would expect $1/84 = 1,19\%$ in each cell. Cells with more than 30% deviation have been coloured. There are relatively many fatalities per hour during nights at the weekend.

Table 10: Percentage of car occupant fatalities by day and hour, EU-19, 2006

	Mon	Tue	Wed	Thu	Fri	Sat	Sun	EU-19
0 - 1:59	0,9%	0,5%	0,7%	0,6%	1,0%	1,8%	1,7%	7,1%
2 - 3:39	0,7%	0,3%	0,5%	0,5%	0,7%	1,9%	2,2%	6,9%
4 - 5:59	0,7%	0,6%	0,5%	0,6%	0,8%	1,8%	2,4%	7,4%
6 - 7:59	1,1%	0,9%	0,8%	1,0%	1,1%	1,8%	1,9%	8,5%
8 - 9:59	1,2%	1,0%	1,0%	1,0%	1,2%	1,1%	1,0%	7,5%
10-11:59	0,9%	1,0%	0,9%	1,0%	1,1%	1,2%	0,9%	7,0%
12-13:59	1,1%	1,1%	1,1%	1,0%	1,1%	1,4%	1,4%	8,0%
14-15:59	1,3%	1,2%	1,3%	1,4%	1,5%	1,5%	1,8%	9,9%
16-17:59	1,3%	1,5%	1,3%	1,4%	1,8%	1,7%	1,9%	10,9%
18-19:59	1,2%	1,4%	1,2%	1,1%	1,6%	1,6%	1,8%	9,8%
20-21:59	1,2%	1,0%	0,9%	1,1%	1,6%	1,6%	1,3%	8,8%
22-23:59	1,0%	0,8%	0,9%	1,0%	1,6%	1,5%	1,1%	8,0%
EU-19	12,5%	11,3%	11,0%	11,8%	15,1%	18,8%	19,5%	100%

>1,55 %
<0,92 %

Source: CARE Database / EC
Date of query: August 2008





Month of the year

Table 11 shows the number of car occupant fatalities for each month in 2006.

Table 11: The number of car occupant fatalities by month, 2006

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
BE	48	54	52	50	37	48	40	43	55	59	47	56	589
CZ	49	39	51	38	45	55	34	48	48	56	54	50	567
DK	8	12	13	10	9	8	13	11	13	13	10	18	138
EE	2	3	5	8	8	13	14	9	14	12	8	10	106
EL	56	57	47	63	47	67	72	60	70	53	53	77	722
ES	216	159	171	199	172	163	191	171	165	157	158	173	2.095
FR	220	177	181	188	205	212	244	240	196	232	223	309	2.627
IE***	9	10	17	10	19	22	20	12	9	17	16	13	174
IT**	247	203	180	227	250	214	277	257	199	228	276	266	2.824
LU****	1	5	1	3	3	5	6	6	6	6	5	5	52
HU	40	46	31	46	63	48	78	48	59	59	60	52	630
MT	0	1	2	0	0	0	0	1	1	0	0	0	5
NL***	56	39	37	39	31	33	47	45	25	45	50	36	483
AT	24	21	25	33	33	27	33	26	52	43	36	31	384
PL*	213	155	140	169	207	245	273	266	214	246	204	194	2.526
PT	26	31	23	31	25	25	32	31	27	40	44	40	375
FI	12	13	11	13	20	12	15	27	23	15	19	23	203
SE	6	21	18	28	17	30	33	31	20	11	22	24	261
UK*	158	131	130	122	117	115	116	152	120	160	174	189	1.684
Drivers	977	851	791	836	857	892	970	917	879	967	997	1.066	10.998
Pass.	414	326	344	440	451	450	568	564	438	485	459	500	5.439
EU-19	1.391	1.177	1.135	1.277	1.308	1.342	1.538	1.484	1.316	1.452	1.459	1.566	16.445
%	8,5	7,2	6,9	7,8	8,0	8,2	9,4	9,0	8,0	8,8	8,9	9,5	100

* Data from 2005

UK = GB (2006) + NI (2005)

** Data from 2004

*** Data from 2003

**** Data from 2002

Source: CARE Database / EC

Date of query: August 2008

The number of car occupant fatalities is lowest in spring and highest in July and December.

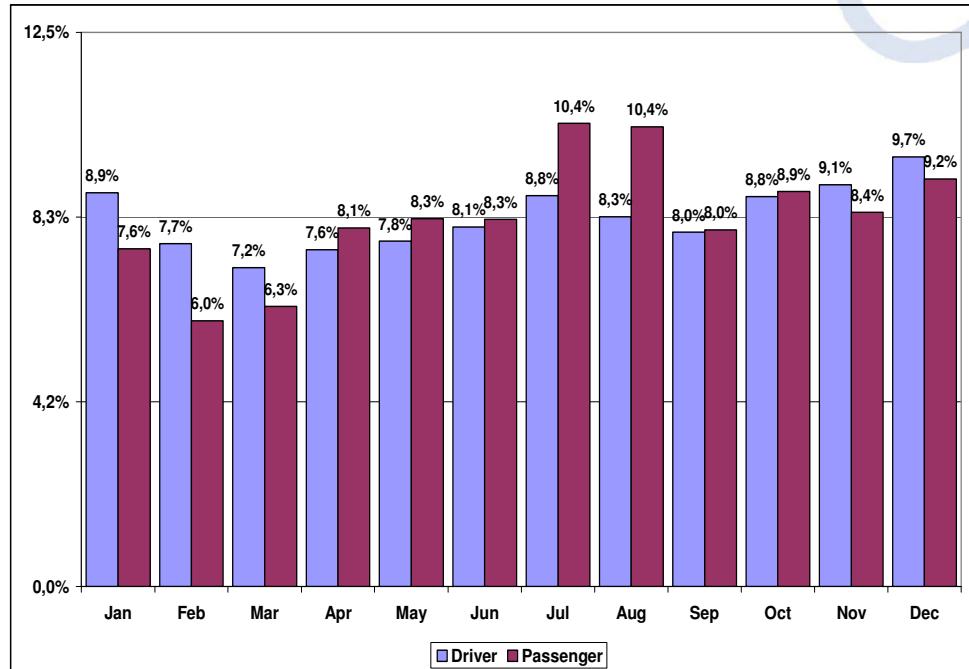




The proportion of car passenger fatalities is highest during the summer holidays.

For drivers there is no obvious seasonal pattern. For passengers however the number of fatalities is relatively large during the summer / holiday months – July and August.

Figure 3: Distribution of car driver and passenger fatalities by month, EU-19, 2006





Main Figures

Children

Young People

The Elderly

Pedestrians

Bicycles

Motorcycles & Mopeds

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Heavy Goods Vehicles

Motorways

Junctions

Urban Areas

Disclaimer

The information in this document is provided as it is and no guarantee or warranty is given that the information is fit for any particular purpose. Therefore, the reader uses the information at their own risk and liability.

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 (see

ec.europa.eu/transport/roadsafety/road_safety_observatory/care_reports_en.htm).

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

- Main Figures
- Children (Aged <16)
- Young People (Aged 16-24)
- The Elderly (Aged >64)
- Pedestrians
- Bicycles
- Motorcycle and Mopeds
- Car Occupants
- Heavy Goods Vehicles
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Definition of EU-level and used Country abbreviations

EU-14

BE	Belgium
DK	Denmark
EL	Greece
ES	Spain
FR	France
IE	Ireland
IT	Italy
LU	Luxembourg
NL	Netherlands
AT	Austria
PT	Portugal
FI	Finland
SE	Sweden
UK	United Kingdom

EU-19 = EU-14 +

CZ	Czech Republic
EE	Estonia
HU	Hungary
MT	Malta
PL	Poland

EU-25 = EU-19 +

DE	Germany
CY	Cyprus
LV	Latvia
LT	Lithuania
SI	Slovenia
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.

All these reports and more information on the Integrated Project SafetyNet, co-financed by the European Commission, Directorate-General Energy and Transport are also available at the SafetyNet Website: www.erso.eu/.

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Main Figures

Children

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The Elderly

Pedestrians

Bicycles

Motorcycles & Mopeds

Car Occupants

Heavy Goods Vehicles

Motorways

Junctions

Urban Areas

