



Year 2011

## ROAD ACCIDENTS

■ During 2011, the number of road accidents resulting in deaths or injuries in Italy is 205,638, with 3,860 killed (deaths within 30 days) and 292,019 injured persons.

■ Comparing 2011 data with the previous year (2010), a decrease of 2.7% for accidents, 3.5% for injuries and 5.6% for killed persons is recorded.

■ Between 2001 and 2011, the percentage decrease of killed persons in road accidents in Italy, is 45.6%. During 2010, the same percentage change (2010/2001) was -42.4% (Chart 1).

■ During 2011, 157,023 road accidents, 213,001 injured and 1,744 killed persons were counted on the inside urban area roads. Regarding the motorways, the road accidents were 11,007, the injured persons 18,515 and the killed persons 338. On the other rural roads (motorways excluded), 37,608 road accidents, 65,503 injured and 1,778 killed were recorded.

■ The mortality index, calculated by means the ratio between deaths and road accidents (per 100), shows that the most dangerous accidents occur on the rural roads (motorways excluded), where 4.7 deaths every 100 road accidents happens. The inside urban area road accidents are less dangerous than the others (1.1 deaths per 100 accidents). For the motorways, the index is equal to 3.1 (per 100).

■ During all the day time since 9 p.m in the evening to 7 a.m. in the morning, the mortality

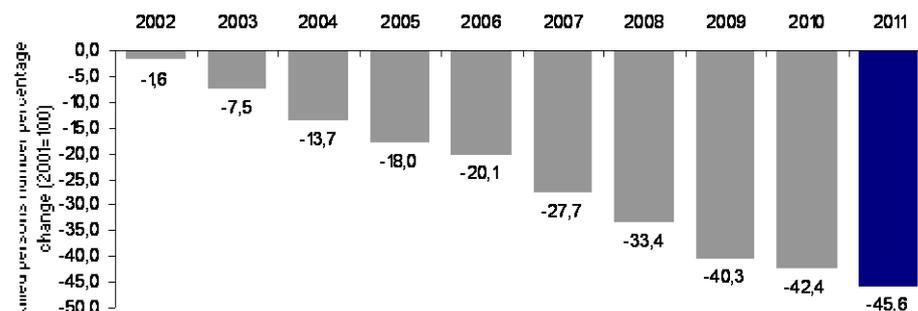
index is higher than the daily average (1.9 deaths per 100 accidents), with a peak at 5 a.m o'clock in the morning (6.0 deaths per 100 accidents). The day week with the highest mortality index level is Sunday (2.8 deaths per 100 accidents).

■ Concerning the night-time (between 10 p.m. and 6 a.m.), the highest mortality index level is reached on Sunday night (3.8 deaths per 100 accidents) and Friday and Saturday night (3.6 and 3.5 deaths per 100 accidents).

■ The drivers dead in road accidents represents the 69.7% out of total deaths, passengers and pedestrians correspond, in that order, to 15.3% and 15.1%. Among drivers deceased in road accidents (2,690 in total), people between 20 and 39 years old are at a disadvantage, compared to the other ages. Deaths are mainly for young people in the age classes 20-24 and adults 35-39 years old (263 deaths and 275 deaths).

■ Cars represent the vehicle category mainly involved in road accidents (66.1%), motorcycles represent the 14.0% out of total vehicles involved, moped 5.4% and bicycles 4.5%.

CHART 1. NUMBER OF KILLED PERSONS PERCENTAGE CHANGE Years 2002-2011 (2001=100)



## Road accidents trend in Italy

During 2011, the number of **road accidents** resulting in deaths or injuries in Italy is **205,638**, with **3,860 killed** and **292,019 injured persons**.

Every day, during 2011, an average number of **563** road accidents, **11** deaths and **800** injuries occurred on the Italian road. Comparing this data with the previous year (2010), a **decreasing** of 2.7% for accidents, 3.5% for injuries and 5.6% for killed persons is recorded (Table 1).

**TABLE 1. ROAD ACCIDENTS, KILLED AND INJURED PERSONS IN ITALY.** Years 2010 e 2011 (absolute values and percentage changes 2011/2010)

ROAD ACCIDENTS, KILLED AND INJURED (a)	Absolute values		Variations in change 2011/2010
	2010	2011	
Road accidents	211.404	205.638	-2,7
Killed persons	4.090	3.860	-5,6
Injured persons	302.735	292.019	-3,5

(a) Source: Istat – Road accidents resulting in deaths or injuries register 2010 – 2011

Road accident resulting in deaths (within the 30th day) or injuries is defined as the event that involves at least a vehicle circulating on the national road net.

The mortality index in 2011, calculated by means the ratio between deaths and road accidents number per 100, is equal to 1.88 (mortality index was 1.93 in 2010) (Table 2).

**TABLE 2. ROAD ACCIDENTS, KILLED AND INJURED PERSONS - Years 2001-2011** (absolute values, mortality index and variations in change)

YEARS	Road accidents	Killed	Injured	Mortality Index (a)	Variations in change of the number of deaths in respect to the previous year (b)	Variations in change of the number of deaths in respect to 2001 (c)
2001	263.100	7.096	373.286	2,70	-	-
2002	265.402	6.980	378.492	2,63	-1,6	-1,6
2003	252.271	6.563	356.475	2,60	-6,0	-7,5
2004	243.490	6.122	343.179	2,51	-6,7	-13,7
2005	240.011	5.818	334.858	2,42	-5,0	-18,0
2006	238.124	5.669	332.955	2,38	-2,6	-20,1
2007	230.871	5.131	325.850	2,22	-9,5	-27,7
2008	218.963	4.725	310.745	2,16	-7,9	-33,4
2009	215.405	4.237	307.258	1,97	-10,3	-40,3
2010	211.404	4.090	302.735	1,93	-3,5	-42,4
<b>2011</b>	<b>205.638</b>	<b>3.860</b>	<b>292.019</b>	<b>1,88</b>	<b>-5,6</b>	<b>-45,6</b>

(a) The mortality index is the ratio between the number of killed persons in road accidents out of total road accidents resulting in death or injury (per 100)

(b) The variations in change of the number of deaths in respect to the previous year is:  $\left(\frac{M^t}{M^{t-1}} - 1\right) * 100$

(c) The variations in change of the number of deaths in respect to 2001 (2001=100) is:  $\left(\frac{M^t}{M^{2001}} - 1\right) * 100$

## The European Union 2020 goal: new decade for Road Safety

During 2010 the UN General Assembly proclaimed a new Decade of Action for Road Safety 2011-2020 to further reduce the number of deaths due to road accidents in the world. The European Commission, in occasion of the new decade of road safety initiatives, outlined guidelines based on seven main strategic objectives too: improving vehicle safety and road infrastructure, increasing intelligent technology, strengthen education and training for road users, improving controls, setting a goal to reduce injuries in car accidents, special care to the safety of motorcyclists.

Concerning data referred to 2011, in European Union 30,168 deaths in road accidents were registered, 2.8% less than 2010 data. The percentage change of the deaths in road accidents number, compared to 2001, is -45.6% in 2011. In 2010, the decreasing was -42.4%. The average value of the percentage change 2011/2001 in EU27 is -44.5% (Table 3).

TABLE 3. KILLED PERSONS IN ROAD ACCIDENTS WITHIN COUNTRIES OF THE EUROPEAN UNION (EU27). Years 2001, 2010 and 2011 (absolute numbers and variations in change) (a)

COUNTRIES EU27	Absolute numbers			Variations in change (b)		
	2001	2010	2011	2010/2001	2011/2001	2011/2010
Austria	958	552	523	-42.4	-45.4	-5.3
Belgium	1,486	840	875	-43.5	-41.1	4.2
Bulgaria	1,011	776	658	-23.3	-34.9	-15.2
Cyprus	98	60	71	-38.8	-27.6	18.3
Denmark	431	255	221	-38.5	-48.7	-13.3
Estonia	199	79	101	-60.8	-49.2	27.8
Finland	433	272	292	-37.6	-32.6	7.4
France	8,162	3,992	3,970	-51.1	-51.4	-0.6
Germany	6,977	3,651	4,002	-47.7	-42.6	9.6
Greece	1,880	1,258	1,087	-31.9	-42.2	-13.6
Ireland	411	212	186	-48.4	-54.7	-12.3
<b>Italy</b>	<b>7,096</b>	<b>4,090</b>	<b>3,860</b>	<b>-42.4</b>	<b>-45.6</b>	<b>-5.6</b>
Latvia	558	218	179	-60.9	-67.9	-17.9
Lithuania	706	299	297	-57.5	-57.9	-0.7
Luxembourg	70	32	33	-54.3	-52.9	3.1
Malta	16	15	17	-6.3	6.3	13.3
The Netherlands	1,083	640	661	-40.9	-39.0	3.3
Poland	5,534	3,907	4,189	-29.4	-24.3	7.2
Portugal	1,670	845	785	-49.4	-53.0	-7.1
United Kingdom	3,598	1,905	1,958	-46.0	-45.6	2.8
Czech Republic	1,334	802	707	-39.9	-47.0	-11.8
Romania	2,454	2,377	2,018	-3.1	-17.7	-15.1
Slovakia	625	353	324	-43.5	-48.2	-8.2
Slovenia	278	138	141	-50.4	-49.3	2.2
Spain	5,517	2,478	2,056	-55.2	-62.7	-17.0
Sweden	531	266	319	-49.9	-39.9	19.9
Hungary	1,239	740	638	-40.4	-48.5	-13.8
<b>EU27</b>	<b>54,355</b>	<b>31,052</b>	<b>30,168</b>	<b>-42.8</b>	<b>-44.5</b>	<b>-2.8</b>

(a) Source: European Transport Safety Council, Annual PIN report. Year 2012

(b) The variations in change 2010/2001 e 2010/2009 are calculated by means the formulas:  $\left(\frac{M^{2010 \circ 2011}}{M^{2001}} - 1\right) * 100$ ;  $\left(\frac{M^{2010}}{M^{2009}} - 1\right) * 100$

With the year 2010, the first decade dedicated to the road safety and to actions to reach the fatality targeted reduction of 50% has been concluded. The new challenge launched by the United Nation on May 11<sup>th</sup> 2011, starts up the new decade 2011-2020 for the road safety.

## Tables and charts collection:

**TABLE 4. ROAD ACCIDENTS, KILLED AND INJURED PERSONS BY ROAD TYPE .** Year 2011 (absolute values, mortality index and variations in change 2011/2010)

ROAD TYPE	Road accidents	Killed	Injured	Mortality Index (a)	Variation in change Accidents 2011/2010	Variation in change Killed 2011/2010	Variation in change Injured 2011/2010
Inside urban area roads	157,023	1,744	213,001	1.1	-1.9	-0.9	-2.5
Motorways	11,007	338	18,515	3.1	-8.9	-10.1	-10.4
Rural roads	37,608	1,778	60,503	4.7	-4.2	-9.1	-5.0
<b>Total</b>	<b>205,638</b>	<b>3,860</b>	<b>292,019</b>	<b>1.9</b>	<b>-2.7</b>	<b>-5.6</b>	<b>-3.5</b>

(a) The mortality index is the ratio between the number of killed persons in road accidents out of total road accidents resulting in death or injury (per 100).

**TABLE 5. ROAD ACCIDENTS AND KILLED PERSONS BY MONTH.** Year 2011 (absolute values, daily average and mortality index)

MONTHS	Road Accidents		Killed		Mortality Index by month (a)
	Absolute numbers	Daily average	Absolute numbers	Daily average	
January	13,925	449	286	9	2.1
February	14,099	504	263	9	1.9
March	15,673	506	258	8	1.6
April	18,199	607	330	11	1.8
May	20,274	654	367	12	1.8
June	18,996	633	358	12	1.9
July	19,515	630	360	12	1.8
August	16,768	541	386	12	2.3
September	18,655	622	350	12	1.9
October	18,307	591	317	10	1.7
November	15,815	527	269	9	1.7
December	15,412	497	316	10	2.1
<b>Year 2010</b>	<b>205,638</b>	<b>563</b>	<b>3,860</b>	<b>11</b>	<b>1.9</b>

(a) The mortality index is the ratio between the number of killed persons in road accidents out of total road accidents resulting in death or injury (per 100).

**TABLE 6. ROAD ACCIDENTS AND KILLED PERSONS BY MONTH AND ROAD TYPE.** Year 2011 (absolute values and mortality index)

MONTHS	Inside Urban area			Rural roads (a)		
	Road accidents	Killed persons	Mortality Index (b)	Road accidents	Killed persons	Mortality Index (b)
January	10,492	141	1.3	3,433	145	4.2
February	10,778	117	1.1	3,321	146	4.4
March	12,052	113	0.9	3,621	145	4.0
April	14,065	157	1.1	4,134	173	4.2
May	15,657	175	1.1	4,617	192	4.2
June	14,573	150	1.0	4,423	208	4.7
July	14,471	144	1.0	5,044	216	4.3
August	12,214	172	1.4	4,554	214	4.7
September	14,380	154	1.1	4,275	196	4.6
October	14,343	154	1.1	3,964	163	4.1
November	12,257	129	1.1	3,558	140	3.9
December	11,741	138	1.2	3,671	178	4.8
<b>Year 2010</b>	<b>157,023</b>	<b>1,744</b>	<b>1.1</b>	<b>48,615</b>	<b>2,116</b>	<b>4.4</b>

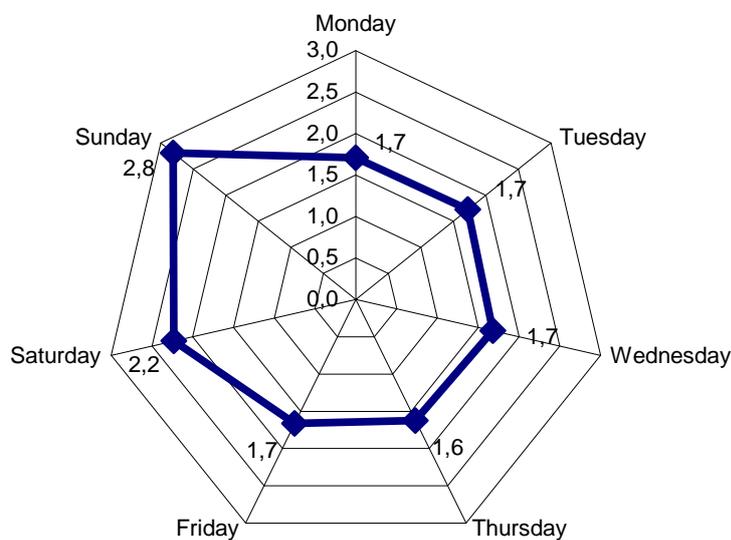
(a) Motorways included.

(b) The mortality index is the ratio between the number of killed persons in road accidents out of total road accidents resulting in death or injury (per 100).

TABLE 7. ROAD ACCIDENTS, KILLED AND INJURED PERSONS BY DAY WEEK. Year 2011 (absolute values and percentage distribution)

DAY WEEK	Absolute numbers			Percentage distribution		
	Road accidents	Killed	Injured	Road accidents	Killed	Injured
Monday	30,439	520	42,109	14.8	13.5	14.4
Tuesday	31,101	538	42,532	15.1	13.9	14.6
Wednesday	31,245	525	42,534	15.2	13.6	14.6
Thursday	30,421	495	41,942	14.8	12.8	14.4
Friday	32,121	535	44,229	15.6	13.9	15.1
Saturday	28,725	641	42,678	14.0	16.6	14.6
Sunday	21,586	606	35,995	10.5	15.7	12.3
<b>Total</b>	<b>205,638</b>	<b>3,860</b>	<b>292,019</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

CHART 2. MORTALITY INDEX BY DAY WEEK. Year 2011 (a)



(a) The mortality index is the ratio between the number of killed persons in road accidents out of total road accidents resulting in death or injury (per 100).

CHART 3. ROAD ACCIDENTS BY DAY TIME. Year 2011 (absolute values)

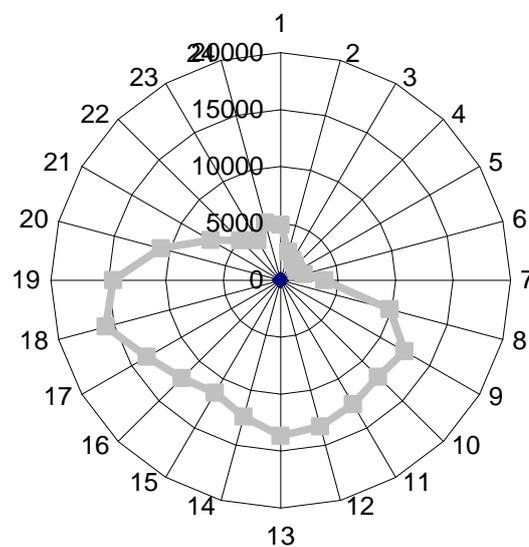
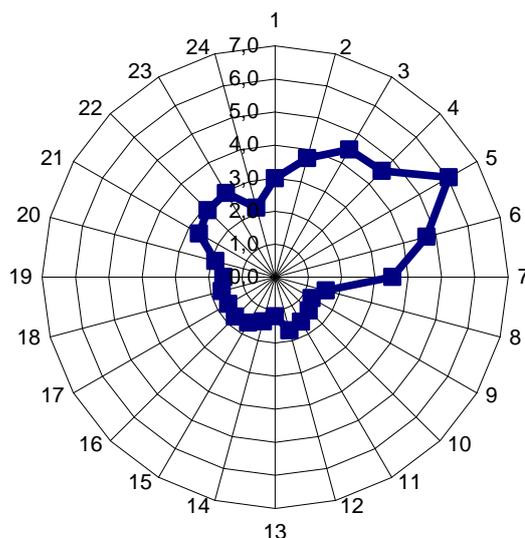


CHART 4. MORTALITY INDEX BY DAY TIME. Year 2010 (a) (absolute values)



(a) The mortality index is the ratio between the number of killed persons in road accidents out of total road accidents resulting in death or injury (per 100).

TABLE 8. KILLED AND INJURED PERSONS IN ROAD ACCIDENTS BY SEX AND AGE CLASS. Year 2011 (absolute values)

AGE CLASSES	Killed			Injured		
	Males	Females	Total	Males	Females	Total
0 - 4	13	8	21	1,429	1,206	2,635
5 - 9	7	7	14	2,051	1,735	3,786
10 -14	21	5	26	3,529	2,551	6,080
15 -19	173	50	223	17,816	9,653	27,469
20 -24	296	82	378	21,919	13,330	35,249
25 -29	260	50	310	18,716	11,733	30,449
30 - 34	225	41	266	17,475	10,617	28,092
35 - 39	263	47	310	17,739	10,643	28,382
40 - 44	227	42	269	15,901	9,938	25,839
45 - 49	214	48	262	14,373	9,012	23,385
50 -54	207	48	255	11,123	7,153	18,276
55 -59	172	38	210	8,390	5,342	13,732
60 -64	145	57	202	6,694	4,428	11,122
65 -69	132	39	171	4,820	3,386	8,206
70 - 74	177	61	238	4,786	3,374	8,160
75 - 79	172	74	246	3,851	2,511	6,362
80 - 84	137	77	214	2,428	1,517	3,945
85 - 89	95	40	135	1,017	667	1,684
90 - 94	20	8	28	225	142	367
95 - 99	0	6	6	24	20	44
unknown	49	27	76	4,470	4,285	8,755
<b>Total</b>	<b>3 005</b>	<b>855</b>	<b>3,860</b>	<b>178,776</b>	<b>113,243</b>	<b>292,019</b>

CHART 5. KILLED PERSONS IN ROAD ACCIDENTS BY SEX AND AGE CLASS. Year 2011 (percentage distribution)

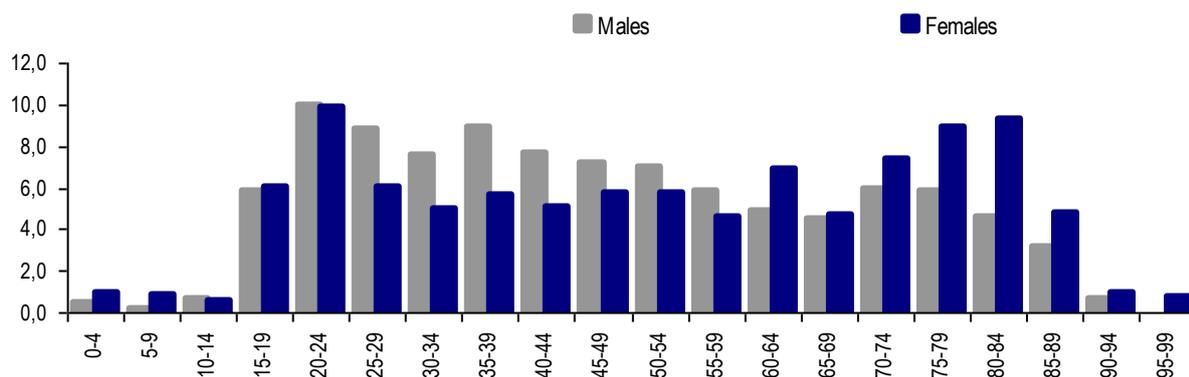


TABLE 9. DRIVERS, KILLED AND INJURED, BY SEX AND AGE CLASS– Year 2011 (a) (absolute values)

AGE CLASSES	Killed drivers			Injured drivers		
	Males	Females	Total	Males	Females	Total
0 – 9	-	-	-	165	40	205
10 -14	11	-	11	1,315	333	1,648
15 -19	124	12	136	13,055	4,030	17,085
20 -24	220	43	263	16,887	7,416	24,303
25 -29	217	28	245	15,260	7,241	22,501
30 - 34	199	21	220	14,705	6,933	21,638
35 - 39	244	31	275	15,378	7,328	22,706
40 - 44	200	27	227	13,943	6,763	20,706
45 - 49	192	32	224	12,661	6,021	18,682
50 -54	184	20	204	9,783	4,295	14,078
55 -59	147	13	160	7,375	2,912	10,287
60 -64	111	19	130	5,683	2,014	7,697
65 -69	106	17	123	3,942	1,383	5,325
70 - 74	126	15	141	3,811	1,234	5,045
75 - 79	123	17	140	2,924	819	3,743
80 - 84	86	11	97	1,711	388	2,099
85 - 89	48	5	53	642	114	756
90 - 94	10	1	11	114	16	130
95 - 99	-	-	-	11	2	13
Unknown	25	5	30	1,945	814	2,759
<b>Total</b>	<b>2,373</b>	<b>317</b>	<b>2,690</b>	<b>141,310</b>	<b>60,096</b>	<b>201,406</b>

(a) Drivers, killed or injured in road accidents, included in the age classes 0-4 and 5-9 years, are bicycles drivers.

CHART 6. KILLED DRIVERS BY SEX AND AGE CLASS. Year 2011 (percentage distribution)

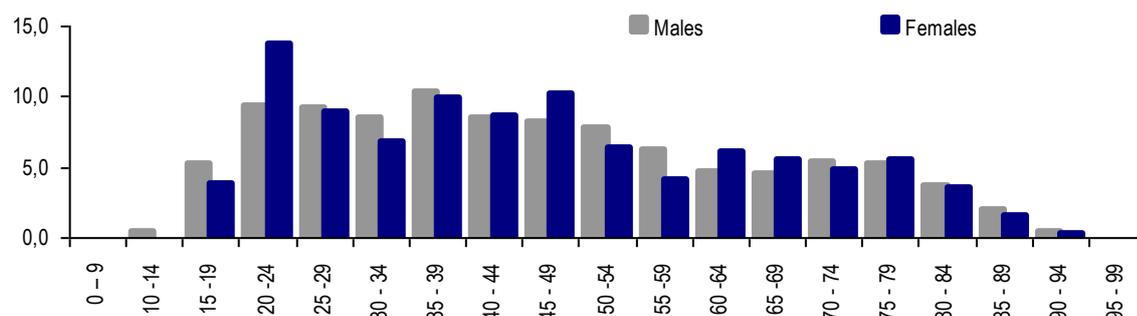


TABLE 10. DRIVERS, KILLED AND INJURED, BY SEX AND VEHICLES TYPE. Year 2011 (absolute values)

VEHICLES TYPE	Killed drivers			Injured drivers		
	Males	Females	Total	Females	Total	Males
Cars	974	214	1,188	65,535	43,117	108,652
Trucks	147	4	151	6,233	422	6,655
Bicycles	230	52	282	10,816	5,355	16,171
Moped	138	17	155	13,949	5,010	18,959
Motorcycles	837	27	864	42,800	5,468	48,268
Mini cars	11	-	11	327	136	463
Other vehicles	36	3	39	1,650	588	2,238
<b>Total</b>	<b>2,373</b>	<b>317</b>	<b>2,690</b>	<b>141,310</b>	<b>60,096</b>	<b>201,406</b>

TABLE 11. DRIVERS, KILLED AND INJURED, BY SEX AND ROAD TYPE . Year 2010 (absolute values)

ROAD TYPE	Killed drivers			Injured drivers		
	Males	Females	Total	Males	Females	Total
Inside Urban Area Roads	977	120	1,097	103,294	45,296	148,590
Motorway	190	26	216	8,272	2,883	11,155
Rural roads	1,206	171	1,377	29,744	11,917	41,661
<b>Total</b>	<b>2,373</b>	<b>317</b>	<b>2,690</b>	<b>141,310</b>	<b>60,096</b>	<b>201,406</b>

TABLE 12. PEDESTRIAN, KILLED AND INJURED, BY SEX AND AGE CLASS . Year 2010 (absolute values)

AGE CLASSES	Killed pedestrian			Injured pedestrian		
	Males	Females	Total	Males	Females	Total
0-4	3	0	3	210	143	353
5-9	1	2	3	381	266	647
10 -14	3	2	5	540	484	1,024
15 -19	3	8	11	559	748	1,307
20 -24	6	4	10	536	634	1,170
25 -29	8	4	12	512	566	1,078
30 -34	8	6	14	550	559	1,109
35 -39	8	6	14	601	627	1,228
40 -44	16	2	18	582	728	1,310
45 -49	12	7	19	559	730	1,289
50 -54	16	12	28	527	748	1,275
55 -59	13	12	25	439	733	1,172
60 -64	29	19	48	554	842	1,396
65 -69	20	9	29	528	757	1,285
70 -74	46	32	78	655	939	1,594
75 -79	42	35	77	659	837	1,496
80 -84	42	54	96	552	658	1,210
85 -89	44	27	71	291	350	641
90 -94	9	5	14	90	76	166
95 -99	0	3	3	13	11	24
Unknown	4	7	11	173	156	329
<b>Total</b>	<b>333</b>	<b>256</b>	<b>589</b>	<b>9,511</b>	<b>11,592</b>	<b>21,103</b>

CHART 7. KILLED PEDESTRIAN BY SEX AND AGE CLASS .Year 2011 (percentage distribution)

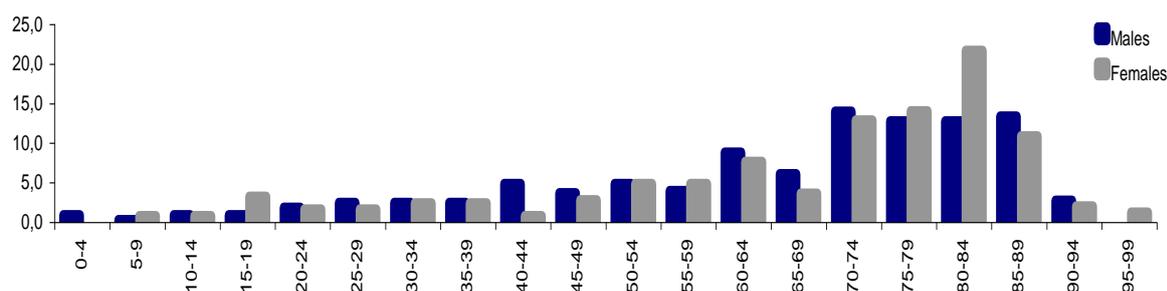


TABLE 13. PASSENGERS, KILLED AND INJURED, BY SEX AND AGE CLASS. Year 2011 (absolute values)

AGE CLASSES	Killed passengers			Injured passengers		
	Males	Females	Total	Males	Females	Total
0 - 4	10	8	18	1,213	1,060	2,273
5 - 9	6	5	11	1,511	1,432	2,943
10 -14	7	3	10	1,674	1,734	3,408
15 -19	46	30	76	4,202	4,875	9,077
20 -24	70	35	105	4,496	5,280	9,776
25 -29	35	18	53	2,944	3,926	6,870
30 -34	18	14	32	2,220	3,125	5,345
35 -39	11	10	21	1,760	2,688	4,448
40 -44	11	13	24	1,376	2,447	3,823
45 -49	10	9	19	1,153	2,261	3,414
50 -54	7	16	23	813	2,110	2,923
55 -59	12	13	25	576	1,697	2,273
60 -64	5	19	24	457	1,572	2,029
65 -69	6	13	19	350	1,246	1,596
70 -74	5	14	19	320	1,201	1,521
75 -79	7	22	29	268	855	1,123
80 -84	9	12	21	165	471	636
85 -89	3	8	11	84	203	287
90 -94	1	2	3	21	50	71
95 -99	0	3	3	0	7	7
Unknown	20	15	35	2,352	3,315	5,667
<b>Total</b>	<b>299</b>	<b>282</b>	<b>581</b>	<b>27,955</b>	<b>41,555</b>	<b>69,510</b>

CHART 8. PASSENGERS, KILLED AND INJURED, BY SEX AND AGE CLASS. Year 2011 (percentage distribution)

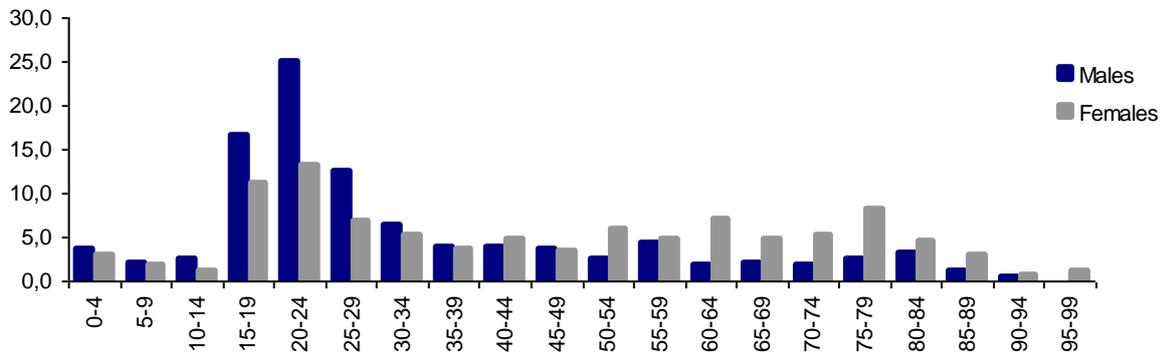


TABLE 14. VEHICLES INVOLVED IN ROAD ACCIDENTS, KILLED AND INJURED PERSON BY VEHICLES TYPE. Year 2011 (a) (absolute values and percentage distribution)

VEHICLES TYPE	Absolute values			Percentage distribution		
	Vehicles	Killed	Injured	Vehicles	Killed	Injured
Cars	255,471	1,661	165,080	66.1	50.8	60.9
Trucks	26,106	179	8,961	6.8	5.5	3.3
Bicycles	17,440	282	16,406	4.5	8.6	6.1
Moped	21,012	165	20,890	5.4	5.0	7.7
Motorcycles	54,181	923	54,175	14.0	28.2	20.0
Mini cars	718	12	577	0.2	0.4	0.2
Other vehicles	11,726	49	4,827	3.0	1.5	1.8
<b>Total</b>	<b>386,654</b>	<b>3,271</b>	<b>270,916</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

(a) Pedestrians excluded.