

PIN Flash 18 - Background tables



Definition of deaths on urban/rural roads

	How the urban/rural distinction is made in the statistics that your country provides to CARE
CARE	Deaths on rural roads are deaths that occur on roads other than motorways outside urban area boundary signs. Deaths on urban roads are deaths that occur on roads inside urban area boundary signs.
Austria	Data includes deaths on Expressways ("Schnellstraßen" with for most of them layout similar to motorways) and motorway ramps. Police officers have to tick a box in the Austrian accident form specifying if the collision was in a rural or built-up area.
Belgium	CARE definition
Bulgaria	CARE definition
Cyprus	CARE definition
Czech Republic	CARE definition
Denmark	Roads are designated as built-up or non-built-up according to the prevailing speed limit. A road is defined as non-built-up if the speed limit is above 50km/h and as built-up if the speed limit is 50km/h or lower.
Estonia	CARE definition
Finland	CARE definition
France	CARE definition
Germany	CARE definition
Greece	CARE definition. The reader should bear in mind that there is no relation between the "urban area" field and the "type of road": it is possible that a 'national road' or a 'main road' crosses an urban area.
Hungary	CARE definition
Ireland	Roads are designated as built-up or non-built-up according to the prevailing speed limit. A road is defined as non-built-up if the speed limit is 50km/h or lower (or 40miles/h or lower (2001 to 2004) and 60km/h or lower (2005 to 2008).
Israel	CARE definition
Italy	CARE definition

Latvia	Transformation rules are applied to distinguish between a death on urban roads and death on rural roads
Lithuania	Not communicated
Luxembourg	CARE definition
Malta	Did not respond to the questionnaire
Netherlands	CARE definition
Norway	Did not respond to the questionnaire
Poland	National definition: Area outside urban area boundary signs including motorways. But data sent to ETSC exclude motorways.
Portugal	National definition: Area outside urban area boundary signs including motorways. But data sent to ETSC exclude motorways.
Romania	Not communicated
Slovakia	Not communicated
Slovenia	Not communicated
Spain	CARE definition
<i>Sweden</i>	<i>Slightly different numbers than CARE. Statistics from STRADA: inside and outside urban area boundary signs (excluding motorways) according to the classification by the Police.</i>
Switzerland	CARE definition
UK	In the UK, the distinction is based on the boundaries of urban areas defined for planning purposes and their numbers of inhabitants, but in road safety work, roads are designated as built-up or non-built-up according to the prevailing speed limit. A road is defined as non-built-up if the speed limit is above 40 miles/h, or as built-up if the speed limit is 40 miles/h or lower.

Country	2001	2002	2003	2004	2005	2006	2007	2008	2009	Average annual % change
LU*	46	30	31	26	30	26	23	20	n/a	-11.7%
PT	839	863	760	621	612	437	457	372	365	-10%
FR	5,397	5,078	3,952	3,685	3,331	3,071	2,988	2,807	2,796	-9.3%
LV	405	408	372	375	318	259	254	219	187	-7.9%
BE*	841	782	650	640	617	600	591	474	n/a	-7.2%
IL	334	297	249	270	248	214	227	232	169	-7.1%
DE	4,481	4,301	4,156	3,664	3,228	3,062	3,012	2,721	2,452	-7.0%
ES	3,395	3,327	3,418	2,920	2,802	2,599	2,471	1,979	1,670	-6.6%
NL	501	496	510	408	370	336	341	328	318	-6%
IE	303	268	237	261	289	256	237	200	158	-5.6%
CY	38	34	46	33	33	24	25	25	30	-4.9%
EL*	964	847	831	788	789	736	748	689	n/a	-4.9%
AT	586	565	602	528	477	456	444	419	399	-4.5%
FI	309	294	271	276	268	226	285	227	191	-4.4%
CH	269	273	317	268	247	215	196	195	178	-4.1%
SE	362	374	359	306	304	303	313	271	258	-3.7%
DK	270	289	286	220	200	188	252	245	187	-3.6%
SI	162	166	148	170	150	142	169	132	87	-3.4%
UK	1,952	1,934	2,004	1,855	1,831	1,787	1,697	1,401	1,336	-3.4%
IT*	2,972	3,096	3,106	2,878	2,653	2,585	2,336	2,203	n/a	-3.3%
EE	137	159	124	128	132	162	140	93	78	-3.2%
CZ	765	807	843	799	738	599	731	602	572	-2.5%
HU	663	851	790	760	729	740	666	523	483	-1.1%
PL	2,949	3,025	2,953	2,922	2,917	2,839	2,981	2,903	2,358	-1%
BG	481	483	498	512	512	647	495	580	544	2.2%
RO	603	634	711	729	714	903	979	1,121	1,015	7.7%
SK**	n/a	n/a	n/a	n/a	308	308	307	266	167	-9.2%
LT	n/a	n/a	n/a	n/a	n/a	507	481	322	260	-19.1%
MT	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NO	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

PIN	30,024	29,681	28,224	26,042	24,539	23,412	23,058	20,981	19,217	-4.9%
EU27 ⁽¹⁾	29,421	29,111	27,658	25,504	24,044	22,983	22,635	20,554	18,870	-4.9%
EU15	23,218	22,544	21,173	19,076	17,801	16,668	16,195	14,356	13,516	-6.3%
EU10 ⁽¹⁾	5,119	5,450	5,276	5,187	5,017	4,765	4,966	4,497	3,795	-1.8%
EU2 ⁽²⁾	1,084	1,117	1,209	1,241	1,226	1,550	1,474	1,701	1,559	5.5%

Fig.1: Average annual percentage change in deaths outside urban areas on roads other than motorways over the period 2001-2009.

Source: CARE and national data provided by PIN Panellists

*BE, EL, IT, LU (2001-2008). **SK: only deaths occurring within 24h after the collisions are collected
LI and SK are excluded from Fig. 1.

⁽¹⁾ Excluding Slovakia, Malta and Lithuania. ⁽²⁾ Romania and Bulgaria

Country	2001	2002	2003	2004	2005	2006	2007	2008	2009	Average annual % change
BE*	453	353	350	295	255	265	275	274	n/a	-9.2%
EE	64	64	40	43	38	42	56	38	22	-9.0%
LU*	17	20	16	17	13	8	9	9	n/a	-8.9%
FR	2,277	2,056	1,667	1,534	1,664	1,346	1,359	1,235	1,252	-8.4%
PT	720	699	659	556	537	448	389	417	386	-8.0%
SE	162	132	134	125	110	106	127	99	89	-7.0%
IT*	3,351	3,083	2,746	2,596	2,588	2,494	2,269	2,076	n/a	-6.5%
CH	204	164	171	191	137	124	141	135	137	-6.2%
ES	974	912	919	900	790	737	741	634	584	-5.4%
LV	153	151	160	141	124	148	165	97	67	-5.0%
NL	335	348	346	252	254	283	270	243	227	-4.5%
DE	1,726	1,684	1,646	1,484	1,471	1,384	1,335	1,261	1,225	-4.2%
HU	544	524	478	476	502	508	505	419	301	-4.0%
FI	113	105	101	82	101	93	81	108	76	-3.9%
UK	1,448	1,421	1,439	1,349	1,302	1,326	1,178	1,087	1,000	-3.5%
CZ	525	570	556	525	503	427	442	444	329	-3.4%
BG	482	438	435	386	417	373	475	443	321	-3.3%
IE*	104	103	89	107	104	98	91	77	79	-2.7%
SI	91	81	73	83	81	92	94	73	64	-2.6%
IL	192	207	191	190	180	188	164	163	133	-2.6%
DK	125	126	114	120	95	100	129	129	91	-2.2%
EL*	830	718	716	766	758	774	724	744	n/a	-2.1%
AT	216	265	223	232	202	200	173	189	173	-2.0%
NO	37	41	39	33	37	31	25	43	30	-1.9%
RO	1,841	1,767	1,506	1,697	1,895	1,638	1,780	1,919	1,756	-0.7%
PL	2,528	2,761	2,653	2,755	2,495	2,349	2,549	2,499	2,171	-0.6%
CY	48	39	40	74	54	52	52	49	34	-0.3%
SK**					277	291	261	243	136	-10.4%
MT					17	11	12	9		-19.5%
LT						209	208	152	89	-20.4%

PIN	19,560	18,832	17,507	17,009	16,707	15,634	15,598	14,904	13,650	-4.1%
EU27 ⁽¹⁾	19,127	18,420	17,106	16,595	16,353	15,291	15,268	14,563	13,350	-4.1%
EU15	12,851	12,025	11,165	10,415	10,244	9,662	9,150	8,582	8,285	-5.6%
EU10 ⁽¹⁾	3,953	4,190	4,000	4,097	3,797	3,618	3,863	3,619	2,988	-1.6%
EU2 ⁽²⁾	2,323	2,205	1,941	2,083	2,312	2,011	2,255	2,362	2,077	-1.2%

Fig. 2: Average annual percentage change in deaths inside urban areas over the period 2001-2009.
Source: CARE and national data provided by PIN Panellists

*BE, EL, IT, LU (2001-2008). **SK: only deaths occurring within 24h after the collisions are collected.

LI and SK are excluded from Fig. 2

⁽¹⁾ Excluding Slovakia, Malta and Lithuania. ⁽²⁾ Romania and Bulgaria

Country	Code	Rural roads	Urban roads	Difference
		Average annual % change	Average annual % change	
Cyprus	CY	-4.95%	-0.26%	-4.7%
Israel	IL	-7.12%	-2.59%	-4.5%
Latvia	LV	-7.94%	-5.03%	-2.9%
Ireland	IE	-5.60%	-2.73%	-2.9%
Luxembourg	LU*	-11.74%	-8.91%	-2.8%
Greece	EL*	-4.91%	-2.11%	-2.8%
Germany	DE	-6.96%	-4.22%	-2.7%
Austria	AT	-4.53%	-2.04%	-2.5%
Portugal	PT	-10.04%	-8.01%	-2%
The Netherlands	NL	-6.04%	-4.48%	-1.6%
Denmark	DK	-3.60%	-2.25%	-1.3%
Spain	ES	-6.60%	-5.43%	-1.2%
France	FR	-9.32%	-8.43%	-0.9%
Slovenia	SI	-3.44%	-2.62%	-0.8%
Finland	FI	-4.45%	-3.93%	-0.5%
Poland	PL	-1.01%	-0.60%	-0.4%
UK	UK	-3.37%	-3.52%	0.1%
Czech Republic	CZ	-2.55%	-3.35%	0.8%
Belgium	BE*	-7.20%	-9.22%	2.0%
Switzerland	CH	-4.12%	-6.24%	2.1%
Hungary	HU	-1.09%	-4.02%	2.9%
Italy	IT*	-3.27%	-6.53%	3.3%
Sweden	SE	-3.70%	-6.97%	3.3%
Bulgaria	BG	2.21%	-3.26%	5.5%
Estonia	EE	-3.21%	-9.03%	5.8%
Romania	RO	7.66%	-0.71%	8.4%

PIN	-4.91%	-4.73%	-0.18%
EU27 ⁽¹⁾	4.9%	-4.75%	0.15%
EU15	-5.45%	-6.63%	0.28%
EU10 ⁽¹⁾	-1.83%	-1.66%	0.17%
EU2	5.46%	-1.19%	6.64%

Fig. 3: Difference between the average annual percentage reduction in the number of deaths on rural roads and the corresponding reduction in number of deaths on urban roads over the period 2001-2009. *BE, EL, IT, LU (2001-2008) ⁽¹⁾ Excluding Slovakia, Malta and Lithuania

Note: Fig. 3 presents for each country the difference between progress on rural roads and on urban roads, regardless of the absolute levels of progress. Fig. 3 should therefore be read in conjunction with Fig. 1 and Fig. 2, and not in isolation.

Country	Code	% share on rural roads	% share on motorways	% share on urban roads
Spain	ES	64%	16%	20%
Sweden	SE	69%	5%	26%
Finland	FI	70%	3%	26%
Austria	AT	63%	10%	27%
Ireland	IE*	71%	2%	27%
Estonia	EE	73%	n/a	27%
Belgium	BE*	57%	16%	28%
Lithuania	LT	66%	6%	28%
Germany	DE	60%	12%	28%
France	FR	65%	6%	29%
Denmark	DK	61%	7%	32%
Latvia	LV	67%	n/a	33%
Slovenia	SI	57%	9%	34%
The Netherlands	NL	49%	15%	36%
Czech Republic	CZ	59%	3%	38%
Switzerland	CH	52%	10%	38%
UK	UK	54%	6%	40%
Israel	IL	56%	3%	41%
Hungary	HU	53%	5%	41%
Bulgaria	BG	55%	4%	42%
Portugal	PT	44%	12%	44%
Slovakia	SK	52%	2%	45%
Italy	IT*	47%	8%	45%
Poland	PL	53%	1%	46%
Greece	EL*	45%	8%	46%
Cyprus	CY	33%	11%	56%
Romania	RO	36%	1%	63%
EU27⁽¹⁾		56%	7%	37%

Fig.4: Percentage share of road deaths per road type ranked by the percentage share of road deaths on rural roads and motorways taken together. (2007-2009 average)

⁽¹⁾ Excluding Malta, Luxembourg and Norway.

	2009			2001		
	Deaths	Veh-km (in billion)	Deaths per veh-km	Deaths	Veh-km (in billion)	Deaths per veh-km
IL***	169	24.731	6.8	297	20,447	14.5
SE	258	36.5	7.1	362	34,8	10.4
FI*	227	29.503	7.7	309	27,01	11.4
CH	178	20.433	8.7	269	19,36	13.9
EE	78	6.107	12.8	137	4,268	23.1
AT*	419	27.539	15.2	586	24,03	24.4
ES*	1,979	125.413	15.8	3,395	126,964	26.7
SI*	132	7.768	17.0	162	7,363	22.0
HU	483	21.44	22.5	663	n/a	n/a
RO**	1,015	40.475	25.1	603	31,823	22.4
LT	260	8.166	31.8	n/a	n/a	n/a

Fig. 5: Road deaths outside urban areas excluding motorways per billion km driven in 2009 (and in 2001 for comparison) for countries for which data on vehicle-km is available.

*2001-2008. **2005-2009. ***2002-2009

	Outside urban areas	Inside urban areas
Car and taxi user	61.0%	28.5%
Other user*	7.3%	4.0%
PTW user	16.7%	20.5%
Cyclist	5.0%	9.7%
Pedestrian	9.9%	37.3%

Fig. 7: Percentage share of road deaths by road user group on rural roads (with urban roads for comparison) in the EU (2007-2009 average)

*Others include HGVs, lorries under 3.5t, agricultural tractors, bus and coaches, other vehicles and unknown.

	Change on rural roads (in %)	Change on urban roads (in %)
Car & taxi user	5.7%	5.9%
Bus & coach user	13.1%	6.7%
Lorry (< 3.5t) user	4.0%	4.8%
HGV (> 3.5t) user	3.5%	6.2%
Moped user	7.6%	5.7%
Motorcyclist	0.4%	0.2%
Cyclist	4.4%	3.8%
Pedestrian	4.8%	3.6%

Fig. 8: Reductions in road deaths on rural roads by road user group (with urban roads for comparison) between 2001 and 2009 in the EU.

		Car&taxi user	Other user*	PTW user	Cyclist	Pedestrian
Bulgaria	BG	74%	7%	5%	2%	12%
Finland	FI	68%	10%	12%	3%	7%
Sweden	SE	70%	6%	15%	3%	6%
Romania	RO	63%	12%	4%	4%	16%
Greece	EL	62%	13%	18%	1%	6%
Ireland	IE	62%	12%	9%	3%	13%
Estonia	EE	66%	6%	6%	5%	17%
Czech Republic	CZ	66%	5%	11%	8%	10%
Portugal	PT	52%	18%	15%	4%	10%
Israel	IL	51%	20%	10%	3%	17%
France	FR	63%	7%	23%	3%	5%
Belgium	BE	60%	10%	17%	9%	5%
Cyprus	CY	65%	4%	24%	6%	1%
Germany	DE	63%	5%	20%	6%	6%
Spain	ES	55%	13%	21%	2%	8%
Austria	AT	61%	6%	20%	5%	7%
UK	UK	62%	4%	21%	3%	9%
Hungary	HU	58%	8%	10%	8%	15%
Denmark	DK	56%	10%	18%	7%	9%
Poland	PL	60%	6%	5%	7%	23%
Latvia	LV	57%	7%	3%	5%	28%
Italy	IT	57%	6%	27%	5%	5%
The Netherlands	NL	55%	7%	17%	17%	4%
Luxembourg	LU	60%	0%	33%	0%	6%
Slovenia	SI	51%	5%	25%	7%	12%
Switzerland	CH	47%	6%	33%	7%	7%

EU ⁽¹⁾	60%	8%	17%	5%	10%
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Fig. 6: Percentage share of road deaths by road user group on rural roads ranked by the percentage share of road deaths on rural roads and motorways taken together.

(2007-2009 average).

⁽¹⁾ EU27 excluding LT, MT, NO, SK.

	Country	2001	2002	2003	2004	2005	2006	2007	2008	2009
AT	Austria	958	956	931	878	768	730	691	679	633
BE	Belgium	1,486	1,306	1,214	1,162	1,089	1,069	1,067	944	955*
BG	Bulgaria	1,011	959	960	943	957	1,043	1,006	1,061	901
CY	Cyprus	98	94	97	117	102	86	89	82	71
CZ	Czech Republic	1,334	1,431	1,447	1,382	1,286	1,063	1,222	1,076	901
DK	Denmark	431	463	432	369	331	306	406	406	303
EE	Estonia	199	223	164	170	169	204	196	132	100
FI	Finland	433	415	379	375	379	336	380	344	279
FR	France	8,162	7,655	6,058	5,530	5,318	4,703	4,620	4,275	4,273
DE	Germany	6,977	6,842	6,613	5,842	5,361	5,091	4,949	4,477	4,152
EL	Greece	1,880	1,634	1,605	1,670	1,658	1,657	1,612	1,553	1,456
HU	Hungary	1,239	1,429	1,326	1,296	1,278	1,303	1,232	996	822
IE	Ireland	411	376	335	374	396	365	338	279	241
IL	Israel	542	525	445	467	437	405	382	412	314
IT	Italy	7,096	6,980	6,563	6,122	5,818	5,669	5,131	4,739	4,050*
LV	Latvia	558	559	532	516	442	407	419	316	254
LT	Lithuania	706	697	709	752	773	760	739	498	370
LU	Luxembourg	69	62	53	49	46	36	43	35	47*
MT	Malta	16	16	16	13	16	10	14	15	21
NL	Netherlands	1,083	1,069	1,088	881	817	811	791	750	720
NO	Norway	275	310	280	258	224	242	233	255	212
PL	Poland	5,534	5,827	5,640	5,712	5,444	5,243	5,583	5,437	4,572
PT	Portugal	1,670	1,668	1,542	1,294	1,247	969	974	885	840
RO	Romania	2,454	2,414	2,232	2,446	2,623	2,573	2,794	3,063	2,796
SK	Slovakia	625	626	653	608	600	608	661	606	385
SI	Slovenia	278	269	242	274	257	262	293	214	171
ES	Spain	5,517	5,347	5,399	4,741	4,442	4,104	3,823	3,100	2,714
SE	Sweden	551	532	529	480	440	445	471	397	358
CH	Switzerland	544	513	546	510	409	370	384	357	349
UK	UK	3,598	3,581	3,658	3,368	3,337	3,300	3,056	2,718	2,337

Table 1: Total number of road deaths. * Provisional figures or national estimates for 2009

NL: Figures have been corrected for police underreporting. In The Netherlands, the reported number of deaths is checked by Statistics Netherlands (CBS) and compared individually to the Death certificates and Court files of unnatural death.

Code	Country	2001	2002	2003	2004	2005	2006	2007	2008	2009
AT	Austria	156	126	106	118	89	74	74	71	61
BE	Belgium	192	171	140	125	161	164	153	139	n/a
BG	Bulgaria	48	38	27	45	28	23	36	38	36
CY	Cyprus	12	21	11	10	15	10	12	8	7
CZ	Czech Republic	43	53	48	58	45	37	48	30	n/a
DK	Denmark	36	48	32	29	36	19	25	32	24
EE	Estonia	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
FI	Finland	11	16	7	17	10	17	14	9	12
FR	France	486	521	439	312	323	292	273	233	225
DE	Germany	770	857	811	694	662	645	602	495	475
EL	Greece	86	69	58	116	111	147	140	120	n/a
HU	Hungary	32	55	58	62	48	55	61	54	38
IE	Ireland	4	5	9	6	3	11	10	2	n/a
IL	Israel	16	21	11	20	20	12	7	17	12
IT	Italy	598	625	553	468	451	452	417	358	258
LV	Latvia	No motorway in Latvia								
LT	Lithuania	39	57	36	41	59	44	50	24	21
LU	Luxembourg	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MT	Malta	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
NL	Netherlands	157	143	172	144	126	111	98	106	99
NO	Norway	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
PL	Poland	57	40	36	35	32	55	53	35	43
PT	Portugal	112	115	127	116	98	84	128	96	90
RO	Romania	6	10	12	16	20	46	41	21	25
SK	Slovakia	n/a	n/a	n/a	n/a	21	15	15	11	8
SI	Slovenia	20	22	21	21	28	29	30	9	20
ES	Spain	1148	1108	1062	921	850	768	611	487	460
SE	Sweden	28	26	34	42	24	28	25	18	21
CH	Switzerland	71	76	58	51	25	31	47	27	34
UK	UK	198	226	215	164	203	185	184	157	n/a

Table 2: Road deaths on motorways

NL: Figures have been corrected for police underreporting. In The Netherlands, the reported number of deaths is checked by Statistics Netherlands (CBS) and compared individually to the Death certificates and Court files of unnatural deaths.