

# INTERNATIONAL COMPARISONS FOR ROAD DEATHS





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### NOTES

1. The data in this section are derived from data submitted to the International Road Traffic and Accident Database (IRTAD). Only countries that contribute to the database are included in this section.
2. More about IRTAD  
(from <http://internationaltransportforum.org/irtad/about.html>)

#### Background

In 1988, the OECD Road Transport Research Programme established the International Road Traffic and Accident Database (IRTAD) as a mechanism for providing an aggregated database, in which international accident and victim as well as exposure data are collected on a continuous basis.

#### What is IRTAD?

IRTAD includes both a database and a working group.

The IRTAD database includes accident and traffic data and other safety indicators for 30 countries.

The International Traffic Safety Data and Analysis Group (known as the IRTAD Group) is an on-going working group of the Joint Transport Research of the OECD and the International Transport Forum. It is composed of road safety experts and statisticians from renowned safety research institutes, national road and transport administrations, international organisations, universities, automobilists associations, motorcar industry etc. Its main objectives are to contribute to international co-operation on road accident data and its analysis.



TABLE 1: INTERNATIONAL COMPARISON OF DEATH RATES

Country	Year	Population (Thousand)	Vehicle (Thousand)	Vehicles per capita	Road deaths	Deaths per 100 000 population	Deaths per 10 000 vehicles
AUSTRALIA	2007	21017	14775	0.70	1617	7.7	1.1
AUSTRIA	2007	8299	5475	0.66	691	8.3	1.3
BELGIUM	2007	10585	6362	0.60	1067	10.1	1.7
CANADA	2006	31613	19737	0.62	2892	9.2	1.5
CZECH REPUBLIC	2007	10287	5208	0.51	1222	11.9	2.3
DENMARK	2007	5474	2767	0.51	406	7.4	1.5
FINLAND	2007	5277	3079	0.58	380	7.2	1.2
FRANCE	2007	61538	37909	0.62	4620	7.5	1.2
GERMANY	2007	82366	55511	0.67	4949	6.0	0.9
GREECE	2006	11125	6996	0.63	1657	14.9	2.4
HUNGARY	2007	10064	3546	0.35	1232	12.2	3.5
ICELAND	2007	308	251	0.81	15	4.9	0.6
IRELAND	2007	4331	2442	0.56	338	7.8	1.4
ISRAEL	2007	7244	2251	0.31	398	5.5	1.8
ITALY	2007	59131	-	-	5131	8.7	-
JAPAN	2007	127771	83098	0.65	6639	5.2	0.8
LUXEMBOURG	2007	476	386	0.81	43	9.0	1.1
NETHERLANDS	2007	16358	8863	0.54	709	4.3	0.8
NEW ZEALAND	2007	4228	3189	0.75	422	10.0	1.3
NORWAY	2007	4681	3127	0.67	233	5.0	0.7
POLAND	2007	38115	19471	0.51	5583	14.7	2.9
PORTUGAL	2007	10599	-	-	974	9.2	-
SLOVAKIA	2007	5394	-	-	627	11.6	-
SLOVENIA	2007	2026	1218	0.60	293	14.5	2.4
SOUTH KOREA	2007	48456	19483	0.40	6166	12.7	3.2
SPAIN	2007	44475	28531*	0.64*	3823	8.6	1.3*
SWEDEN	2007	9113	5292	0.58	471	5.2	0.9
SWITZERLAND	2007	7509	5186	0.69	384	5.1	0.7
UNITED KINGDOM	2007	60975	34874	0.57	3059	5.0	0.9
USA	2007	299398*	251423*	0.84*	41259	14.2*	1.6*

NOTE: Data are for countries that contribute data to the International Road Traffic and Accident Database. Values marked with an \* use at least some data from an earlier year.

FIGURE 1A: INTERNATIONAL COMPARISON OF DEATHS PER 100,000 POPULATION (2007)

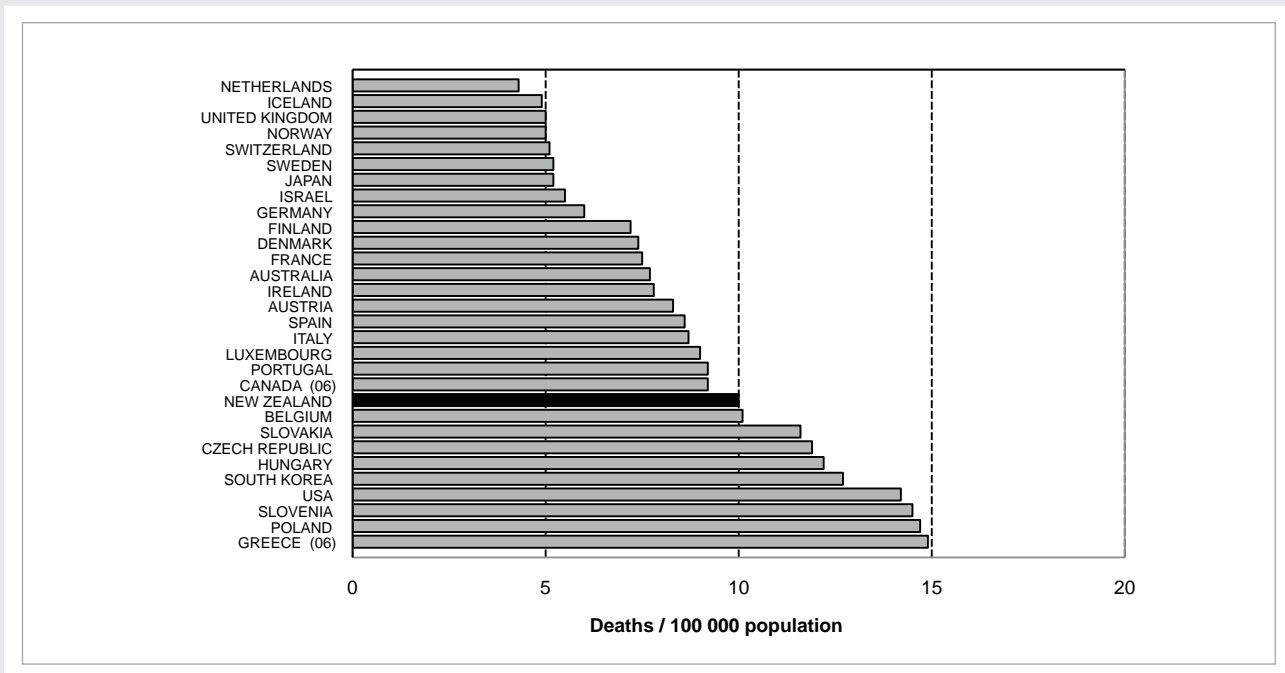


FIGURE 1B: INTERNATIONAL COMPARISON OF DEATHS PER 10,000 VEHICLES (2007)

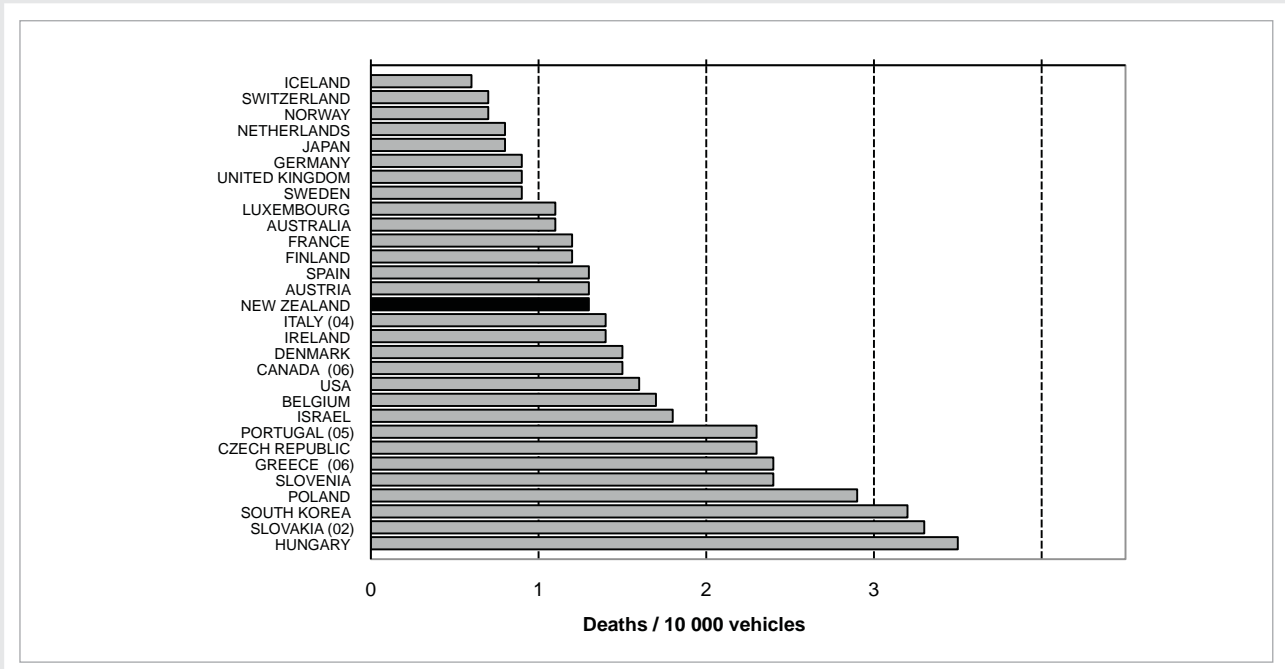


TABLE 2: TYPE OF ROAD USER KILLED

Country	Year	Percentage of deaths					Total number killed
		Vehicle occupants #	Motorcyclists (including mopeds)	Pedestrians	Cyclists	Unknown	
AUSTRALIA	2007	70.2	14.8	12.5	2.5	0	1617
AUSTRIA	2007	61.6	17.4	15.6	5.4	0.0	691
BELGIUM	2007	60.9	15.2	9.7	8.2	6.0	1067
CANADA	2006	76.3	7.3	13.2	2.5	0.7	2892
CZECH REPUBLIC	2007	59.9	11.4	19.2	9.5	0.0	1222
DENMARK	2007	49.3	20.7	16.7	13.3	0.0	406
FINLAND	2007	70.8	10.8	12.6	5.8	0.0	380
FRANCE	2007	59.8	25.0	12.1	3.1	0.0	4620
GERMANY	2007	59.0	18.3	14.0	8.6	0.0	4949
GREECE	2006	52.4	30.2	16.1	1.3	0.0	1657
HUNGARY	2007	52.2	11.6	23.4	12.8	0.0	1232
ICELAND	2007	73.3	20.0	6.7	0.0	0.0	15
IRELAND	2007	61.8	9.8	24.0	4.4	0.0	338
ISRAEL							
ITALY							
JAPAN	2007	33.5	18.3	33.3	14.9	0.0	6639
LUXEMBOURG							
NETHERLANDS	2007	48.7	17.5	12.1	20.7	1.0	709
NEW ZEALAND	2007	76.8	9.7	10.7	2.8	0.0	422
NORWAY	2007	70.0	17.2	9.9	3.0	0.0	233
POLAND	2007	51.2	4.9	34.9	8.9	0.0	5583
PORTUGAL	2006	55.6	24.1	16.1	4.1	0.0	969
SLOVAKIA							
SLOVENIA	2007	64.8	18.1	10.9	5.8	0.3	293
SOUTH KOREA	2007	37.0	20.7	37.4	4.9	0.0	6166
SPAIN	2007	59.2	23.0	15.5	2.3	0.0	3823
SWEDEN	2007	65.0	15.7	12.3	7.0	0.0	471
SWITZERLAND	2007	48.4	23.2	20.6	7.8	0.0	384
UNITED KINGDOM	2007	53.7	20.1	21.7	4.5	0.0	3059
USA	2006	75.1	11.1	11.2	1.8	0.6	42642

NOTE: Data are for countries that contribute data to the International Road Traffic and Accident Database.

# Includes 'other' road users ie those that do not fit in any other category.

TABLE 3: DEATHS PER 100,000 POPULATION BY AGE GROUP

Country	Year	Age group in years							All ages
		0 to 14	15 to 24	25 to 34	35 to 44	45 to 54	55 to 64	Over 64	
AUSTRALIA	2007	1.7	13.0	11.0	7.7	7.3	5.7	9.2	7.7
AUSTRIA	2007	1.0	16.4	9.2	7.5	7.6	7.9	10.3	8.3
BELGIUM	2007	1.7	18.9	15.7	11.0	8.6	8.4	9.3	10.1
CANADA	2006	1.7	16.9	11.5	8.4	8.2	8.1	10.8	9.2
CZECH REPUBLIC	2007	1.7	16.3	14.6	13.1	12.4	9.9	13.6	11.9
DENMARK	2007	2.0	11.9	8.4	8.8	7.0	4.4	11.2	7.4
FINLAND	2007	1.6	14.2	9.4	4.8	6.9	6.4	9.1	7.2
FRANCE	2007	1.5	15.1	10.3	7.6	6.2	5.2	8.7	7.5
GERMANY	2007	1.0	11.9	7.2	4.9	5.9	4.8	7.2	6.0
GREECE	2006	2.3	26.0	22.1	15.0	11.7	9.2	15.9	14.9
HUNGARY									
ICELAND									
IRELAND	2007	1.8	14.2	7.9	7.1	5.4	8.1	12.3	7.8
ISRAEL	2006	2.3	9.8	5.8	3.6	6.2	6.0	11.9	5.9
ITALY									
JAPAN	2007	0.8	5.8	3.2	2.9	3.5	4.7	11.7	5.2
LUXEMBOURG									
NETHERLANDS	2007	1.2	8.4	4.9	3.5	2.9	3.2	7.6	4.3
NEW ZEALAND	2007	3.0	21.2	11.4	8.9	8.6	6.8	11.8	10.0
NORWAY	2007	1.0	7.5	6.5	4.4	5.3	4.1	7.4	5.0
POLAND	2007	2.6	19.2	15.8	14.6	16.0	14.8	18.4	14.7
PORTUGAL	2005	1.9	19.8	14.3	12.9	11.2	10.9	12.3	11.8
SLOVAKIA									
SLOVENIA	2006	3.2	25.1	18.8	15.2	10.6	8.9	10.3	13.1
SOUTH KOREA	2007	2.3	9.2	9.0	10.1	14.8	20.4	37.1	12.7
SPAIN	2006	1.8	14.8	12.9	10.0	8.4	7.8	9.0	9.3
SWEDEN	2007	0.6	9.3	5.3	4.4	5.5	5.4	6.6	5.2
SWITZERLAND	2007	1.2	8.6	4.8	3.2	3.3	5.8	9.6	5.1
UNITED KINGDOM	2007	0.9	10.2	6.3	4.9	4.4	3.4	5.9	5.0
USA	2005	3.2	25.5	17.7	15.0	14.5	13.8	17.7	14.7

NOTE: Data are for countries that contribute data to the International Road Traffic and Accident Database.



TABLE 4: PERCENTAGE OF DEATHS BY AGE GROUP

Country	Year	Age group in years							Unknown age
		0 to 14	15 to 24	25 to 34	35 to 44	45 to 54	55 to 64	Over 64	
AUSTRALIA	2007	4.3	23.5	19.9	14.7	13.1	8.2	15.6	0.6
AUSTRIA	2007	1.9	24.2	14.5	15.1	12.9	10.6	21.0	0.0
BELGIUM	2007	2.8	22.7	20.1	16.3	12.2	9.7	15.8	0.6
CANADA	2006	3.3	24.7	15.9	14.0	14.2	10.3	16.1	1.5
CZECH REPUBLIC	2007	2.0	17.9	20.7	15.1	14.4	11.5	16.5	1.9
DENMARK	2007	4.9	18.7	14.3	17.7	12.8	7.9	23.4	0.2
FINLAND	2007	3.7	24.5	16.1	8.9	13.9	12.1	20.8	0.0
FRANCE	2007	3.5	25.6	17.9	14.4	11.3	8.0	19.1	0.2
GERMANY	2007	2.2	23.2	14.2	13.5	14.3	9.3	23.3	0.1
GREECE	2006	2.2	20.8	22.8	15.3	10.7	6.9	19.7	1.6
HUNGARY									
ICELAND	2007	6.7	13.3	20.0	26.7	6.7	6.7	20.0	0.0
IRELAND	2007	4.7	26.6	17.8	13.3	8.6	10.1	17.2	1.8
ISRAEL	2007	7.0	23.9	17.8	10.1	13.3	8.3	19.6	0.0
ITALY									
JAPAN	2007	2.1	11.8	8.3	7.7	8.3	13.3	48.4	0.0
LUXEMBOURG									
NETHERLANDS	2007	5.1	23.4	14.2	13.0	9.6	9.2	25.5	0.0
NEW ZEALAND	2007	6.4	30.8	14.7	13.3	11.8	7.1	14.7	1.2
NORWAY	2007	3.9	18.9	17.2	13.3	14.2	9.9	21.9	0.9
POLAND	2007	2.8	20.3	17.2	12.7	16.6	11.7	16.9	1.7
PORTUGAL	2006	2.2	14.0	20.9	15.1	12.0	12.0	22.2	1.5
SLOVAKIA									
SLOVENIA	2007	2.0	23.9	22.2	14.3	13.3	6.8	17.4	0.0
SOUTH KOREA	2007	3.3	9.8	11.6	13.9	18.0	14.4	29.0	0.0
SPAIN	2007	2.8	18.0	23.5	16.9	12.3	9.6	15.7	1.1
SWEDEN	2007	2.1	22.9	13.0	12.1	13.6	14.0	22.3	0.0
SWITZERLAND	2007	3.6	20.1	12.2	10.4	9.4	13.8	30.5	0.0
UNITED KINGDOM	2007	3.1	27.2	16.3	14.8	11.5	8.1	18.8	0.3
USA	2006	4.2	25.2	16.8	14.9	14.6	9.8	14.1	0.4

NOTE: Data are for countries that contribute data to the International Road Traffic and Accident Database.

FIGURE 2: AGE DISTRIBUTION OF ROAD DEATHS FOR SELECTED COUNTRIES

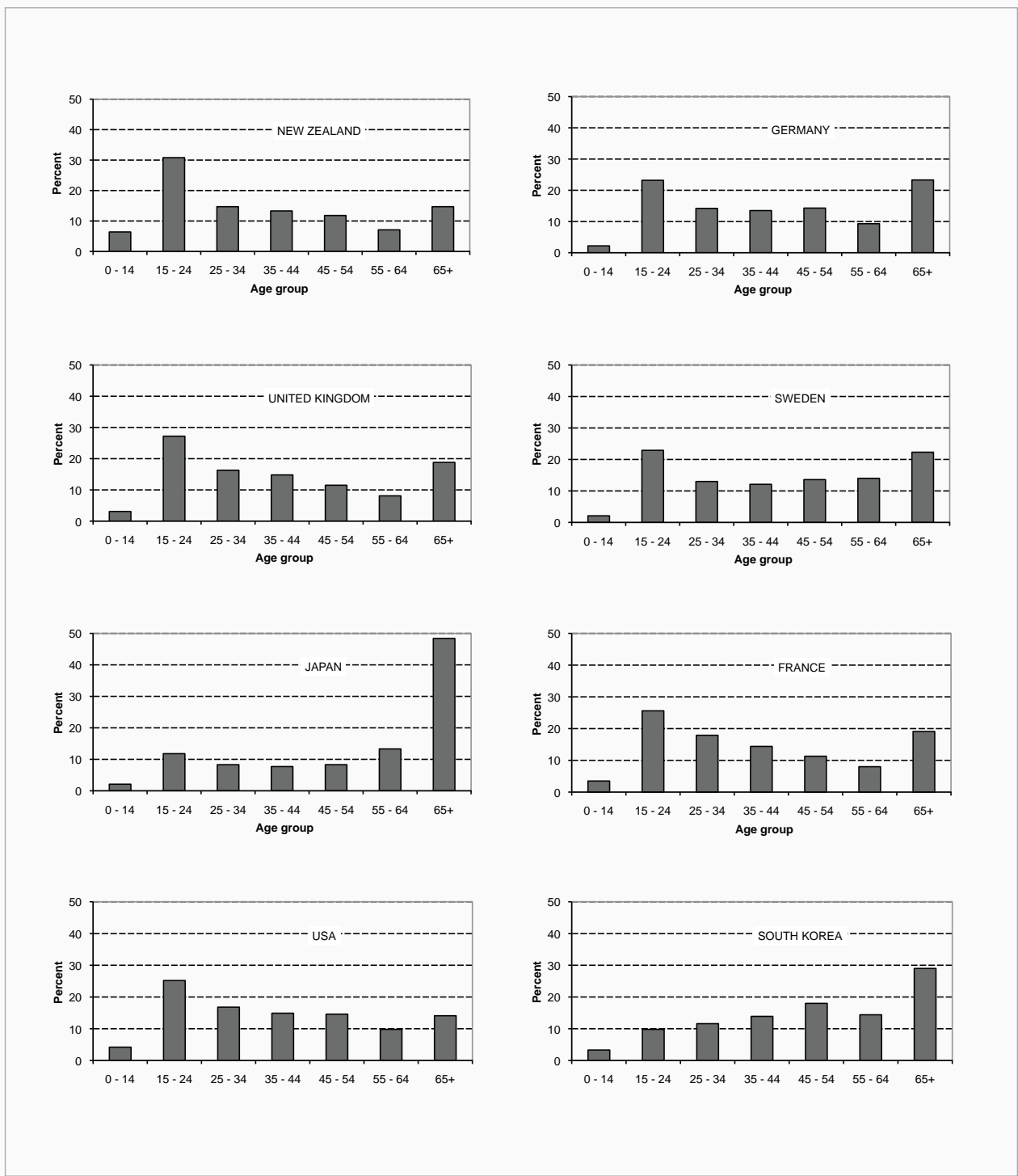


TABLE 5: DEATHS PER 100,000 POPULATION BY YEAR

Country	Year										
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
AUSTRALIA	9.5	9.4	9.3	9.5	9.0	8.7	8.2	7.9	8.0	7.7	7.7
AUSTRIA	13.9	12.1	13.5	12.2	11.9	11.8	11.5	10.7	9.3	8.8	8.3
BELGIUM	13.4	14.7	13.7	14.4	14.5	13.1	11.7	11.2	10.4	10.2	10.1
CANADA	10.2	9.7	9.8	9.5	8.9	9.3	8.7	8.5	9.1	9.2	
CZECH REPUBLIC	15.5	13.2	14.1	14.5	13.0	14.0	14.2	13.5	12.6	10.4	11.9
DENMARK	9.3	9.4	9.7	9.3	8.1	8.6	8.0	6.8	6.1	5.6	7.4
FINLAND	8.5	7.8	8.4	7.7	8.4	8.0	7.3	7.2	7.2	6.4	7.2
FRANCE	14.4	15.2	14.4	13.6	13.8	12.9	10.2	9.3	8.8	7.7	7.5
GERMANY	10.4	9.5	9.5	9.1	8.5	8.3	8.0	7.1	6.5	6.2	6.0
GREECE	20.1	20.8	20.1	18.7	17.2	14.9	14.6	15.1	15.0	14.9	
HUNGARY	13.7	13.5	12.9	12.0	12.2	14.0	13.1	12.8	12.7	12.9	12.2
ICELAND	5.6	9.9	7.6	11.5	8.5	10.1	8.0	7.9	6.5	10.3	4.9
IRELAND	12.9	12.4	11.0	11.0	10.7	9.6	8.4	8.8	9.7	8.6	7.8
ISRAEL	9.0	9.1	7.7	7.2	8.3	7.9	6.7	7.0	6.5	5.9	5.5
ITALY	11.7	11.9	11.6	12.2	12.3	12.3	11.5	10.6	10.0	9.7	8.7
JAPAN	8.9	8.5	8.2	8.2	7.9	7.5	7.0	6.7	6.2	5.7	5.2
LUXEMBOURG	14.4	13.4	13.5	17.5	16.0	14.0	11.8	11.0	10.2	7.7	9.0
NETHERLANDS	7.5	6.8	6.9	6.8	6.2	6.1	6.4	5.0	4.6	4.5	4.3
NEW ZEALAND	14.4	13.2	13.4	12.1	11.8	10.3	11.5	10.7	9.9	9.5	10.0
NORWAY	6.9	8.0	6.8	7.6	6.1	6.9	6.2	5.6	4.8	5.2	5.0
POLAND	18.9	18.3	17.4	16.3	14.3	15.3	14.8	15.0	14.3	13.8	14.7
PORTUGAL	23.4	22.4	21.0	18.1	16.2	16.1	14.8	12.3	11.8	9.2	9.2
SLOVAKIA	14.6	15.2	12.0	11.6	11.4	11.3	12.0	11.2	10.4	10.7	11.6
SLOVENIA	18.0	15.6	16.9	15.8	13.9	13.5	12.1	13.7	12.9	13.1	14.5
SOUTH KOREA	29.0	22.5	23.1	21.8	17.1	15.2	15.1	13.7	13.2	13.1	12.7
SPAIN	14.3	15.1	14.5	14.5	13.8	12.9	12.8	11.0	10.2	9.3	8.6
SWEDEN	6.1	6.0	6.6	6.7	6.2	6.0	5.9	5.4	4.9	4.9	5.2
SWITZERLAND	8.3	8.4	8.2	8.3	7.6	7.1	7.5	6.9	5.5	5.0	5.1
TURKEY											
UNITED KINGDOM	6.4	6.1	6.1	6.1	6.1	6	6.1	5.6	5.5	5.4	5
USA	15.7	15.4	15.3	15.3	14.8	14.9	14.8	14.6	14.7	14.2	

NOTE: Data are for countries that contribute data to the International Road Traffic and Accident Database.

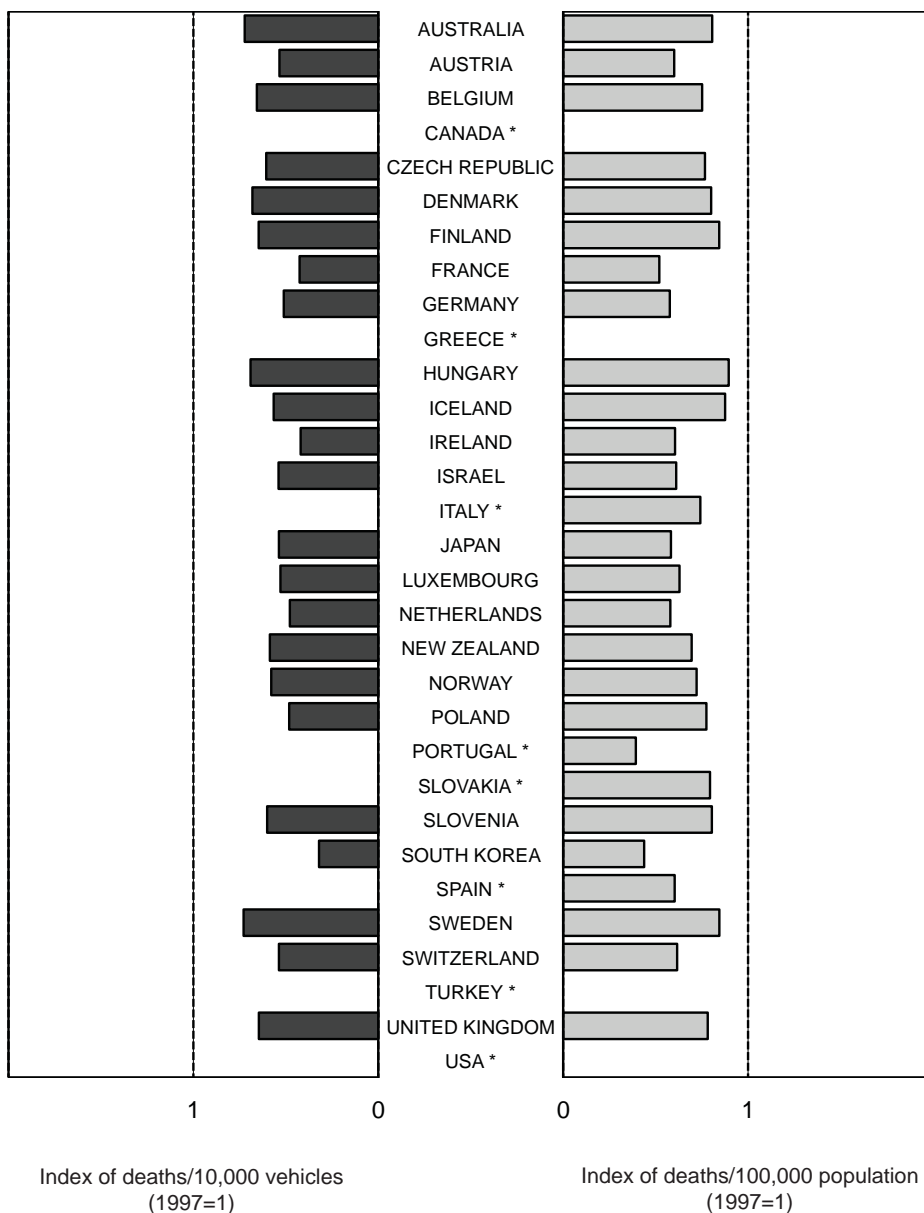
TABLE 6: DEATHS PER 10,000 VEHICLES BY YEAR

Country	Year										
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
AUSTRALIA	1.5	1.5	1.4	1.5	1.4	1.3	1.2	1.2	1.2	1.1	1.1
AUSTRIA	2.4	2.0	2.2	1.9	1.8	1.8	1.8	1.7	1.5	1.4	1.3
BELGIUM	2.6	2.8	2.5	2.6	2.5	2.3	2.0	1.9	1.8	1.7	1.7
CANADA	1.7	1.6	1.7	1.6	1.5	1.6	1.5	1.4	1.5	1.5	
CZECH REPUBLIC	3.9	3.1	3.3	3.4	3.1	3.3	3.2	3.0	2.7	2.1	2.3
DENMARK	2.2	2.1	2.2	2.1	1.8	1.9	1.7	1.5	1.3	1.2	1.5
FINLAND	1.9	1.7	1.8	1.6	1.7	1.6	1.4	1.4	1.3	1.1	1.2
FRANCE	2.9	2.7	2.5	2.4	2.3	2.1	1.7	1.5	1.4	1.3	1.2
GERMANY	1.7	1.6	1.5	1.5	1.3	1.3	1.2	1.1	1.0	0.9	0.9
GREECE	5.2	5.0	4.5	4.0	3.5	2.9	2.7	2.6	2.5	2.4	
HUNGARY	5.0	4.9	4.9	4.4	4.4	4.8	4.2	3.9	3.8	3.8	3.5
ICELAND	1.1	1.8	1.3	1.8	1.3	1.5	1.1	1.1	0.9	1.3	0.6
IRELAND	3.3	3.0	2.6	2.5	2.3	2.0	1.7	1.8	1.9	1.6	1.4
ISRAEL	3.3	3.3	2.8	2.5	2.8	2.7	2.3	2.4	2.1	1.9	1.8
ITALY	1.8	1.8	1.7	1.8	1.7	1.7	1.5	1.4			
JAPAN	1.5	1.4	1.3	1.3	1.3	1.2	1.1	1.0	1.0	0.9	0.8
LUXEMBOURG	2.1	1.9	1.9	2.4	2.1	1.8	1.5	1.4	1.3	1.0	1.1
NETHERLANDS	1.7	1.5	1.5	1.4	1.2	1.2	1.2	0.9	0.9	0.8	0.8
NEW ZEALAND	2.3	2.1	2.0	1.8	1.7	1.5	1.6	1.5	1.3	1.3	1.3
NORWAY	1.3	1.4	1.2	1.3	1.0	1.1	1.0	0.9	0.8	0.8	0.7
POLAND	5.9	5.6	5.1	4.5	3.8	3.8	3.5	3.4	3.2	2.9	2.9
PORTUGAL	5.6	5.1	4.4	3.9	3.4	3.3	3.0	2.4	2.3		
SLOVAKIA	5.1	5.2	4.2	4.1	3.9	3.3					
SLOVENIA	4.0	3.3	3.4	3.1	2.7	2.6	2.3	2.5	2.2	2.3	2.4
SOUTH KOREA	9.9	7.1	7.2	6.9	5.1	4.4	4.1	3.6	3.4	3.3	3.2
SPAIN	2.8	2.8	2.6	2.5	2.3	2.1	2.1	1.8	1.6	1.4	
SWEDEN	1.2	1.2	1.3	1.2	1.1	1.1	1.1	0.9	0.9	0.9	0.9
SWITZERLAND	1.4	1.4	1.3	1.3	1.2	1.1	1.1	1.0	0.8	0.7	0.7
TURKEY											
UNITED KINGDOM	1.4	1.3	1.2	1.2	1.2	1.1	1.1	1	1	1	0.9
USA	2.1	2	2	1.9	1.9	1.9	1.9	1.8	1.8	1.7	

NOTE: Data are for countries that contribute data to the International Road Traffic and Accident Database.



FIGURE 3: 2007 DEATH RATES COMPARED TO 1997 RATES (1997=1)



\* = incomplete data for 2007 or 1997

TABLE 7: PERCENTAGE OF DEATHS BY ROAD CATEGORY

Country	Year	URBAN ROADS		OUTSIDE URBAN AREAS			Total	Total number killed
		All urban	Motorways	A-level roads	Other			
AUSTRALIA								
AUSTRIA	2007	25.0	10.9	33.4	30.7	75	691	
BELGIUM	2007	25.4	14.2	13.5	41.3	74.6	1067	
CANADA	2006	36.9	11.4			63.1	2892	
CZECH REPUBLIC	2007	36.2	3.9	27.7	32.2	63.8	1222	
DENMARK	2007	31.8	6.4	17.7	44.1	68.2	406	
FINLAND	2007	21.3	3.7	42.1	32.9	78.7	380	
FRANCE	2007	29.4	6.5	9.3	54.8	70.6	4620	
GERMANY	2007	27.0	12.2	22.6	38.3	73	4949	
GREECE	2006	46.7	8.9	23.1	21.3	53.3	1657	
HUNGARY	2006	39.0	4.2			61	1303	
ICELAND	2007	6.7				93.3	15	
IRELAND	2007	26.9	3.0	36.4	33.7	73.1	338	
ISRAEL	2006	45.4				54.6	414	
ITALY	2007	44.2	10.3	17.2	28.3	55.8	5131	
JAPAN	2007	53.8	2.7			46.2	6639	
LUXEMBOURG								
NETHERLANDS	2007	38.1	10.4			61.9	709	
NEW ZEALAND	2007	25.1	1.9	45.5	27.5	74.9	422	
NORWAY	2006	12.4				87.6	242	
POLAND	2007	45.7	0.9			54.3	5583	
PORTUGAL	2006	46.2	8.7	7.8	37.2	53.8	969	
SLOVAKIA								
SLOVENIA	2006	35.4	11.0	20.9	32.7	64.6	263	
SOUTH KOREA	2007	40.0	8.0	29.1	22.9	60.0	6166	
SPAIN	2007	19.4	4.3			80.6	3823	
SWEDEN	2007	27.0	5.3			73	471	
SWITZERLAND	2007	36.7	12.2	35.7	15.4	63.3	384	
UNITED KINGDOM	2007	31.5	6.0			68.5	3059	
USA	2007	43.4				56.6	41259	

NOTES: Data are for countries that contribute data to the International Road Traffic and Accident Database.  
For New Zealand A-level roads are State Highways excluding motorways.

