

Overview of Road Safety Statistics

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- 28,000 fatalities in the EU in 2012 fallen by almost 50% since 2001
 almost 30% of deaths among 15-24 year olds in the EU
- 250,000 serious injuries each year in the EU
- Recent estimate of cost of accidents in EU is €140bn
- Estimated 1.2 million deaths a year worldwide





- Sources of data on road safety
- How they are collected
- Challenges & quality issues
- Linking sources of data
- How data are used



Sources of data on road safety

- Police accident data (STATS19)
- Hospital admissions
- Drink Driving
- National Travel Survey of personal travel patterns
- Death Registrations
- Other possible sources:
 - Emergency services
 - Insurance data
- Related sources:
 - Census data
 - Motoring offence data





• Accidents in **Great Britain**, involving personal injury on the public highway, in which at least one vehicle is involved and which are reported to the police.





- Accidents in **Great Britain**, involving personal injury on the public highway, in which at least one vehicle is involved and which are reported to the police.
- Does not include damage only accidents or those on private roads or car parks
- Not all accidents are reported if insurance details have been exchanged there is no legal obligation for the police to be contacted.



 What were the general conditions in which accidents occurred including exact location?

• Vehicle and driver details?

- How many people were injured and which road users were injured?
- What were casualties doing at the time of the accident?



• Key actions and failures that led directly to the actual impact.

 They show why the accident occurred, and give clues about how it may have been prevented.

 Reflect reporting Police Officer's opinion at the time of reporting. Subsequent enquiries lead to the reporting officer changing his opinion of what contributed to the accident.



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		ACCIDENT STATISTICS	Incident URN Other ref.		
1.3 ACCIDENT REFERENCE		*FATAL / SERIOUS / SLIGE			
1.9 TIME H H M M	Ľ	DAY* Su M T W Th F S	1	1.7 DATE D D M M 2 0	Y Y
1st Road Class & No. or (Unclassified - UC) (Not Known - NK)		1st Road Name			
Outside House No. or Name or Marker Post No.		at junction with / or	metres N S E W * of		
2nd Road Class & No. or (Unclassified - UC) (Not Known - NK)		2nd Road Name			
Town				Sector /Beat	No.
County or Borough					
Parish No. or Name				1.10 Local Aut (if known	h No.
1.11 Grid Reference E-		NÅ			ÌТ
REPORTING Name				Number	
REPORTING Name OFFICER BCU/Stn		12 Force Tel Numb	er	Number	
REPORTING Name OFFICER BCU/Stn		12 Force Tel Numb	er	1.21 LIGHT CONDITIONS	×
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The Collection Process

- Data collection process depends on co-operation between
 - police
 - local government
 - central government
- The system is jointly managed and owned by a committee comprising all three





Department for Transport



Overview

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- Not all accidents reported estimated two thirds of non-fatal casualties not reported
- Difference in training and experience between different officers and forces







- Challenges & quality issues
- Not all accidents reported estimated two thirds of non-fatal casualties not reported
- Difference in training and experience between different officers and forces
- Incorrect inputs e.g. Location reference difficulties
- Time consuming
- Police not medically qualified and so possibility that the severity of injury reported is incorrect







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Linkage or use of other data sources to add value or reduce burden.







- The Hospital Admissions database allows us to identify all hospitalised casualties resulting from road traffic accidents.
- Should include all serious injuries from Police data.
- There is no unique identifier between Hospital data and Police data – however linking the data sources is still possible.



- Match data using common variables (such as age, gender, date and location) - almost 50% of serious casualties are matched.
- Hospital ICD-10 codes converted to Abbreviated Injury Scale scores.
- MAIS3+ is an internationally agreed threshold for 'serious' injuries
- Problems incorrect or incomplete matching.

202





- Police roadside breath tests
- Coroners blood tests investigation of cause of death
- Failed a roadside breath test by registering over 35 micrograms of alcohol per 100 millilitres of breath

OR

- Died and was subsequently found to have more than **80** milligrams of alcohol per 100 millilitres of blood.
- Drink drive figures are estimates to take account of missing data.





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- Developing and monitoring road safety legislation and policy at local, national, and international levels, including monitoring indicators.
- Improvements in road safety infrastructure (Highway authorities)
- Education, training and publicity (Government e.g. Think! Campaign)
- Vehicle safety improvements (Government and vehicle manufacturers)
- Targeting enforcement (Police)
- Inform public debate on road safety (researchers, lobby groups, media, public)
- Parliamentary Questions
- European Commission, CARE and IRTAD

Reported Road Casualties in Great Britain: Main Results 2011

Statistical Release 28 June 2012



Key findings 1 Main results 2	vehicles involved. The re and to the Department fo
Strengths and weaknesses of the data 6 Background notes 6	Figures for deaths refer t caused death within 30 d
	analysis of 2011 casualty
	 The key findings from t The annual number of the police has increas 1,901 in 2011. This is
	The number of people also increased by 2 pe first annual increase s
	 The total number of ca and fatalities) in road a Britain in 2011 continu 2010 to 203,950 in 20
	Total reported child ca
Pat Kilbey	or seriously injured als
FURTHER INFORMATION	2011, from 2,502 in 20
Media Enquiries:	 venicle traffic levels a The overall casualty ra
020 7944 6898	billion vehicle miles co

Public Enquiries:

Roadacc.stats@dft.gsi.gov.uk

020 7944 6595

2011 Annual Reported Roa Report Britain: Main | Statistical

Figures are derived from

police. These collect det:

covering the circumstanc

This publication presents Release 2011 on public roads (inc 27 September 2012 became known to the pol



Reported Road

Casualties in

Great Britain:

Introduction

1. Overview and trends in deaths refer t reported road casualties ath within 30 d 2. A valuation of road accidents and casualties 3. Drinking and driving

statistics are p 4. Contributory factors to 2011 casualty reported road accidents 5. Self-reported drink and ndings from t

- drug driving 6. Hospital admissions on nual number of road casualties in England ce has increas 2011. This is
- nber of people reased by 2 pe ual increase s
 - al number of ca lities) in road a RESPONSIBLE n 2011 continu STATISTICIAN: 203,950 in 20 Pat Kilbey ported child ca

er cent in 201 FURTHER usly injured als INFORMATION om 2.502 in 20

traffic levels a erall casualty ra Media Enquiries: ehicle miles cc 020 7944 6898 **Public Enquiries:** miles, compared to 68 020 7944 6595 2010 but the killed or roadacc.stats@dft.gsi.gov.uk billion vehicle miles.

Reported Road Britain: 2011 A

The Reported Road Casua Report: 2011 presents deta published in June 2012) ab

accidents, including the typ casualties and factors whic detailed tables there are six specific road safety topics.

Most of the statistics in the accidents reported to the p mortality, survey and hospi C and traffic data to provide a C

The key findings from th

- In 2011, there were a tot road accidents reported There were 1,901 people and 23,122 were serious increased slightly (0.2 pe
- The number of fatalities t ۰ 22 per for bus and coach per cent for pedal cyclist and 6 per cent respective
- In 2011, it is estimated 9 casualties) occurred whe alcohol limit. The provision been killed in drink drive fatalities).
- The rate per billion vehic Daryl Lloyd accidents and the rate of FURTHER INFORMATION 2011 were both 15 per c fatalities alone, the 2011
- Media Enquiries: Failed to look properly w 020 7944 6898 contributory factor and w **Public Enquiries:** reported to the police in 020 7944 6595
- In 2011, the economic w Roadacc.stats@dft.gsi.gov.uk estimated to be around f

Reported Road **Casualties in Great** Britain: Quarterly Provisional Estimates Q3 2012

Statistical Release

7 February 2013



y findings	1
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emparison of quarters	4
rengths and weaknesses data	5

Background notes

RESPONSIBLE STATISTICIAN:

St

of

5

5 2013.



Reported Road Casualties in Great Britain: Quarterly Provisional Estimates 2012 Q3

Reported Road Casualties in Great Britain: Quarterly Provisional Estimates is a series providing estimates of personal-injury road accidents on public accidents (including footways) and their casualties which became known to the police within 30 days. This publication contains statistics for the year ending September 2012.

These estimates are published to allow emerging trends to be monitored between the publications of annual figures. A note on methodology can be found at:

http://assets.dft.gov.uk/statistics/series/road-accidents-andsafety/methodology-note-guarterly-estimates.pdf.

Estimates are based on information reported to the Department for Transport 15 weeks after the end of the latest guarter. For this release figures are based on information available on 23rd January

The key findings from the Quarterly Provisional Estimates 2012 Q3 include:

- For reported road accidents in the year ending September 2012, there were 1,760 fatalities, a 7 per cent drop from the year ending September 2011 figure (1,883). However, the number of people killed or seriously injured rose to 24,860, a 2 per cent increase compared with the year ending September 2011 figure (24,473).
- Both pedestrian and all road user child KSIs (ages 0-15) fell by 1 per cent between the years ending September 2011 and 2012.
- The number of fatal accidents on major roads (motorways and A roads) fell by 9 per cent and the number of fatal or serious accidents fell by 2 per cent. However, fatal and serious accidents rose by 5 per cent on minor roads
- There were a total number of 197,730 casualties from 146,980 accidents in the year ending September 2012. These figures represent a 3 per cent fall from the year ending September 2011 for both casualties (from 204.211) and accidents (from 151,162).
- In comparison, motor vehicle traffic levels rose by 0.2 per cent compared with 12 month period ending September 2011.



Factsheets

Several topics including:

- Pedestrians
- Pedal cyclists
- Young drivers
- Motorcyclists
- Elderly drivers





Overview of Tables

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8.

Table RAS10001

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13 Table RAS10013

14 Table RAS10014 15. Table RAS10015

Statistical data sets

Road accidents and safety: statistical tables index 14 May 2013

RAS10 - Reported road accidents 10 November 2012

RAS41 - Strategic framework for road safety outcome indicators 10 November 2012

RAS40 - Reported accidents, vehicles and casualties 10 November 2012

Approximately 170 tables produced each year

- Table RAS10002 Structured so that each different output level tables are grouped: Table RAS10007
 - Accidents
 - Vehicles
 - Casualties

- Contributory Factors etc.

Latest statistical tables on reported road accidents in Great Britain

Table RAS10001

Reported accidents by speed limit, road class and severity, Great Britain, latest available year [MS Excel Spreadsheet, 31.5KB]

Table RAS10002

Reported accidents and accident rates by road class and severity, Great Britain, 2005-09 average, annual for latest 8 available years [MS Excel Spreadsheet, 44KB]

Table RAS10003

Reported accidents by road class, speed limit and severity, Great Britain, 2005-09 average, annual for latest 8 available years [MS Excel Spreadsheet, 29KB1

Table RAS10004

Reported accidents by severity, number of casualties involved, built-up and non built-up roads and road class, Great Britain, latest available year [MS Excel Spreadsheet, 43.5KB1

Table RAS10005

Reported accidents by daylight and darkness, road surface condition, builtup and non built-up roads and severity, Great Britain, latest available year [MS Excel Spreadsheet, 29.5KB]

• Data availability - available at:

http://data.gov.uk/dataset/road-accidents-safety-data(2005-2011) http://discover.ukdataservice.ac.uk/ (1979-2011)

 Police data with, postcodes, Vehicle Registration Mark, breath test, contributory factor data removed, and ages banded

Reference	Casualty Class	Sex	Postcode	Vehicle Reg.	Breath Test	Driver Age
01BS00004	9	2	SW100DX	AB12 CDE	2	49
01BS00005	3	1	W3 3RR	A123 BCD	3	49
01BS00006	9	1	W11 2BD	AB12 CDE	3	51
01BS00006	3	2	E2 7NF	A123 BCD	3	30
01BS00007	3	1	W2 ODZ	AB12 CDE	3	31

Acc_Index	Casualty_ Class	Sex_of_ Casualty	Age_Band_ of_Casualty	Casualty_ Type	Casualty_Home _Area_Type
201101BS70001	3	2	5	0	1
201101BS70002	1	1	6	3	1
201101BS70003	3	1	8	0	1
201101BS70005	2	1	9	8	1
201101BS70005	2	1	4	9	-1
201101BS70005	2	1	4	9	1



Crash: Death on Britain's roads





• Weather – Extreme Winter events





• Fatalities by time of day





- Website: <u>https://www.gov.uk/government/organisations/department-for-</u> <u>transport/series/road-accidents-and-safety-statistics</u>
- Email:

roadacc.stats@dft.gsi.gov.uk

or glenn.goodman@dft.gsi.gov.uk

Questions?