

Statistical Bulletin

Transport Series

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Key Reported Road Casualties Scotland 2012

This bulletin presents *provisional* statistics of reported injury road accidents (i.e. road accidents reported to the police in which one or more people were killed or injured) in Scotland in 2012. Final figures will be published in October 2013.

1. Main Points

- 1.1 There were a total of **12,575** road casualties reported in 2012, (202 or 2% fewer than 2011), the lowest figure recorded. Of which there were:
- **170 fatalities:** 15 (or 8%) fewer than 2011
 - **1,959 seriously injured:** 82 (or 4%) more than 2011
 - **10,446 slightly injured:** 269 (or 3%) fewer than 2011 **[Table 2]**
- 1.2 In 2012 there were 1,161 child casualties reported, 155 (12%) fewer than in 2011. This included **2** fatalities, one a pedestrian and the other a cyclist. **[Table 4]** This is 5 less than last year.
- 1.3 In 2012 there were:
- 7,577 **car** users injured (-3% on 2011); including 72 fatalities (17 less than 2011).
 - 1,950 **pedestrian** casualties (-5% on 2011); incl. 54 fatalities (11 more than 2011),
 - 864 **motorcyclist** casualties (+7%); including 21 fatalities (12 less than 2011)
 - 898 **pedal cyclist** casualties (+9%); including 9 fatalities (2 more than 2011)
 - 439 **bus** and **coach** user casualties in 2012 (13% lower than 2011). **[Table 3]**
- These figures take no account of changes in modal choice so changes could be because more or less people are travelling by a particular mode.
- 1.4 **Male** road casualties fell by 2 per cent (to 7,138 in 2012), with fatalities falling by 12 per cent (to 123). **Female** road casualties fell by 1 per cent (to 5,431) with fatalities increasing by 1 to 47. 18 per cent (2,274) of all casualties were aged 16–22, an increase of 1 per cent on 2011, of which 1,307 were male (10% of all casualties) and 967 were female (8% of all casualties). Casualties aged 50-59 increased by 8 per cent between 2011 and 2012. **[Table 12]**
- 1.5 There are 5 national **targets** for casualty reductions by 2020 – a reduction compared to the baseline has been achieved in each case:
- **170** people were killed in 2012, **42 per cent** below the 2004-08 baseline average level (target of 40%). This updates National Indicator 32 – to reduce deaths on Scotland's roads. **[Table 5]**
 - **1,959** people were seriously injured in 2012, **25 per cent** below the 2004-08 baseline average level (target of 55%) **[Table 6]**
 - **On average, 4** children were killed each year between 2010 and 2012: **72 per cent** below the 2004-08 average (target of 50%). **[Table 7]**
 - **193** children were seriously injured in 2012: **41 per cent** below the 2004-08 average (target of 65%). **[Table 8]**

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2. Background

2.1 This bulletin presents *provisional* statistics of reported injury road accidents (i.e. road accidents in which one or more people were killed or injured) in Scotland in 2012. These figures were extracted from Transport Scotland's reported road accident statistical database on 20 May 2013. Final 2012 figures will appear in *Reported Road Casualties Scotland 2012*, which will be published in October 2013 and may differ slightly due to late returns and amendments. For similar reasons, the figures given here for 2011 and earlier years may differ slightly from those published previously. Further information about the differences between the main figures in the publications can be found in section 10.2.

2.2 The statistics are the numbers of injury road accidents which were **reported by the police**. Each accident is classified according to the severity of its most seriously injured casualty. Very few, if any, fatal accidents do not become known to the police. However, there could be many non-fatal injury accidents which are *not* reported by the public to the police, and are therefore *not* counted in these statistics because the police can only report accidents of which they are aware. An article on under counting in the statistics is included in Reported Road Casualties Scotland 2010 <http://www.transportscotland.gov.uk/strategy-and-research/publications-and-consultations/1199237-08.htm>

2.3 The Scottish Road Safety Framework published on 15 June 2009, outlined Scottish specific 2020 targets. The **casualty reduction targets** for 2020 are described in section 10.4. Progress towards them is covered in section 8, tables 5 to 9 and the charts on page 11.

2.4 *Key Reported Road Casualties Scotland 2012* is one of a series of Transport Statistics publications, most of which focus on particular aspects of transport and cover them in depth. A comprehensive statistical picture of transport activity is given in the compendium *Scottish Transport Statistics* volume, the *Transport and Travel in Scotland* bulletin and the *Key Transport Statistics* card. *Key Reported Road Casualties Scotland 2012* is followed in October by *Reported Road Casualties Scotland*, a volume which includes extensive analyses of the numbers of accidents, vehicles and casualties.

<http://www.transportscotland.gov.uk/analysis/statistics/publications>

2.5 We welcome comments and feedback on these statistics.

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3. Reported numbers of Accidents (Table 1)

3.1 Table 1 shows the downward trend of injury road **accidents** recorded by the police. In 2012, there were 9,673 accidents in which someone was killed or injured, 3 per cent fewer than in 2011. There were 156 fatal accidents in 2012 19 (11%) fewer than in 2011 and the lowest number since records of fatal accidents began in 1970. In 2012, there were 1,717 serious injury accidents - an increase of 44 (3%) on 2011 - and 7,800 slight injury accidents reported in 2012 - 4 per cent fewer than 2011.

Table 1: Injury Road Accidents by Severity, 1970 – 2012

	Fatal	Serious	Fatal and Serious	Slight	All Severities
1970	758	7,860	8,618	13,515	22,133
1975	699	6,912	7,611	13,041	20,652
1980	644	7,218	7,862	13,926	21,788
1985	550	6,507	7,057	13,587	20,644
1990	491	5,237	5,728	14,443	20,171
1996	316	3,315	3,631	12,442	16,073
1997	340	3,312	3,652	12,994	16,646
1998	339	3,318	3,657	12,862	16,519
1999	285	3,209	3,494	11,921	15,415
2000	297	3,007	3,304	11,828	15,132
2001	309	2,840	3,149	11,575	14,724
2002	274	2,684	2,958	11,385	14,343
2003	301	2,495	2,796	11,121	13,917
2004	283	2,331	2,614	11,305	13,919
2005	264	2,252	2,516	10,922	13,438
2006	293	2,257	2,550	10,560	13,110
2007	255	2,049	2,304	10,203	12,507
2008	245	2,242	2,487	9,672	12,159
2009	196	1,999	2,195	9,362	11,557
2010	189	1,713	1,902	8,393	10,295
2011	175	1,673	1,848	8,130	9,978
2012 prov.	156	1,717	1,873	7,800	9,673

Accidents can involve more than one casualty; casualty numbers are presented in table 2.

4. Reported numbers of Casualties by Severity (Table 2)

4.1 In 2012, 170 people were **killed** in road accidents in Scotland, 15 (8%) fewer than 2011 and the lowest since current records began more than 60 years ago. Since 1978, there has been a clear, steady long-term downward trend. More recent years' figures appear to have been fluctuating around a less pronounced downward trend.

4.2 In 2012 there were 1,959 people **seriously injured** in road accidents: 82 (4%) more than in 2011. The long-term trend, has generally been downward since the early 1980s.

4.3 There were 10,446 people reported as **slightly injured** in 2012 which was 269 (3%) fewer than in 2011. Between 1970 and the late 1990s, the figures fluctuated between 17,000 and 21,000. However, there has been a clear downward trend since 1997.

Table 2: Casualties by Severity, 1950 – 2012

	Killed	Serious injury	Killed and Serious	Slight injury	All Severities
1950	529	4,553	5,082	10,774	15,856
1955	610	5,096	5,706	15,193	20,899
1960	648	6,632	7,280	19,035	26,315
1965	743	8,744	9,487	22,340	31,827
1970	815	10,027	10,842	20,398	31,240
1975	769	8,779	9,548	19,073	28,621
1980	700	8,839	9,539	19,747	29,286
1985	602	7,786	8,388	18,899	27,287
1986	601	7,422	8,023	18,094	26,117
1987	556	6,707	7,263	17,485	24,748
1988	554	6,732	7,286	18,139	25,425
1989	553	6,998	7,551	19,981	27,532
1990	546	6,252	6,798	20,430	27,228
1991	491	5,638	6,129	19,217	25,346
1992	463	5,176	5,639	18,534	24,173
1993	399	4,454	4,853	17,561	22,414
1994	363	5,208	5,571	17,002	22,573
1995	409	4,930	5,339	16,855	22,194
1996	357	4,041	4,398	17,318	21,716
1997	377	4,047	4,424	18,205	22,629
1998	385	4,072	4,457	18,010	22,467
1999	310	3,765	4,075	16,927	21,002
2000	326	3,568	3,894	16,624	20,518
2001	348	3,410	3,758	16,153	19,911
2002	304	3,229	3,533	15,742	19,275
2003	336	2,957	3,293	15,463	18,756
2004	308	2,766	3,074	15,428	18,502
2005	286	2,666	2,952	14,933	17,885
2006	314	2,635	2,949	14,320	17,269
2007	281	2,385	2,666	13,573	16,239
2008	270	2,575	2,845	12,747	15,592
2009	216	2,288	2,504	12,540	15,044
2010	208	1,969	2,177	11,161	13,338
2011	185	1,877	2,062	10,715	12,777
2012 <i>prov.</i>	170	1,959	2,129	10,446	12,575
<i>2004 - 2008 average</i>	292	2,605	2,897	14,200	17,097
<i>2008 - 2012 average</i>	210	2,134	2,344	11,522	13,865
<u>2012 percentage change:</u>					
on 2011	-8%	4%	3%	-3%	-2%
on 04-08 average	-42%	-25%	-27%	-26%	-26%

1. Figures for 2011 and earlier years may differ slightly to those previously published due to late returns, or corrections to earlier returns.
2. Although regular records of the numbers of casualties began in 1947, the level of severity was only collected from 1950 and the number of injury road accidents weren't collected until 1970.

4.4 There were a total of 12,575 casualties (of all severities) reported in 2012: 202 (2%) fewer than in 2011 and the lowest number recorded. Between around 1970 and 1990, the figures fluctuated around a general downward trend, with numbers falling from the short-term peak in 1989 & 1990 (of over 27,000). Since 1998, there has been a consistent reduction every year, with numbers dropping below 15,000 in 2010 to the lowest level recorded.

Figure 1: Killed from 1950 to 2012

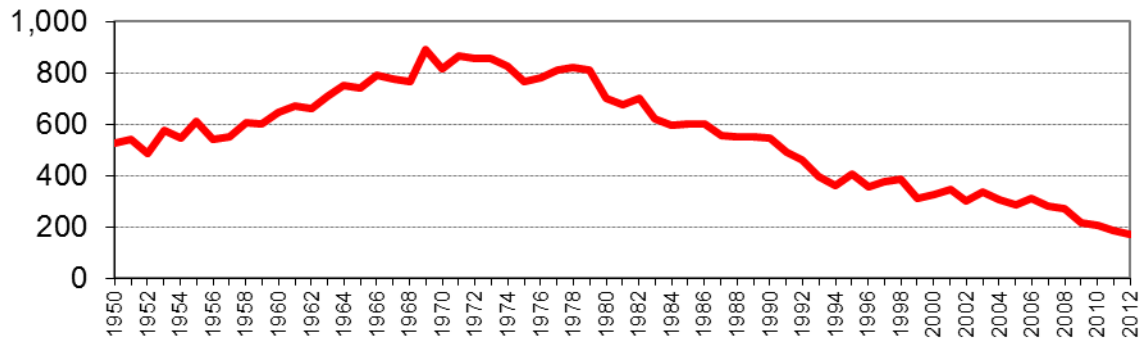


Figure 2: Killed & Seriously injured casualties and Seriously injured casualties, 1950 - 2012

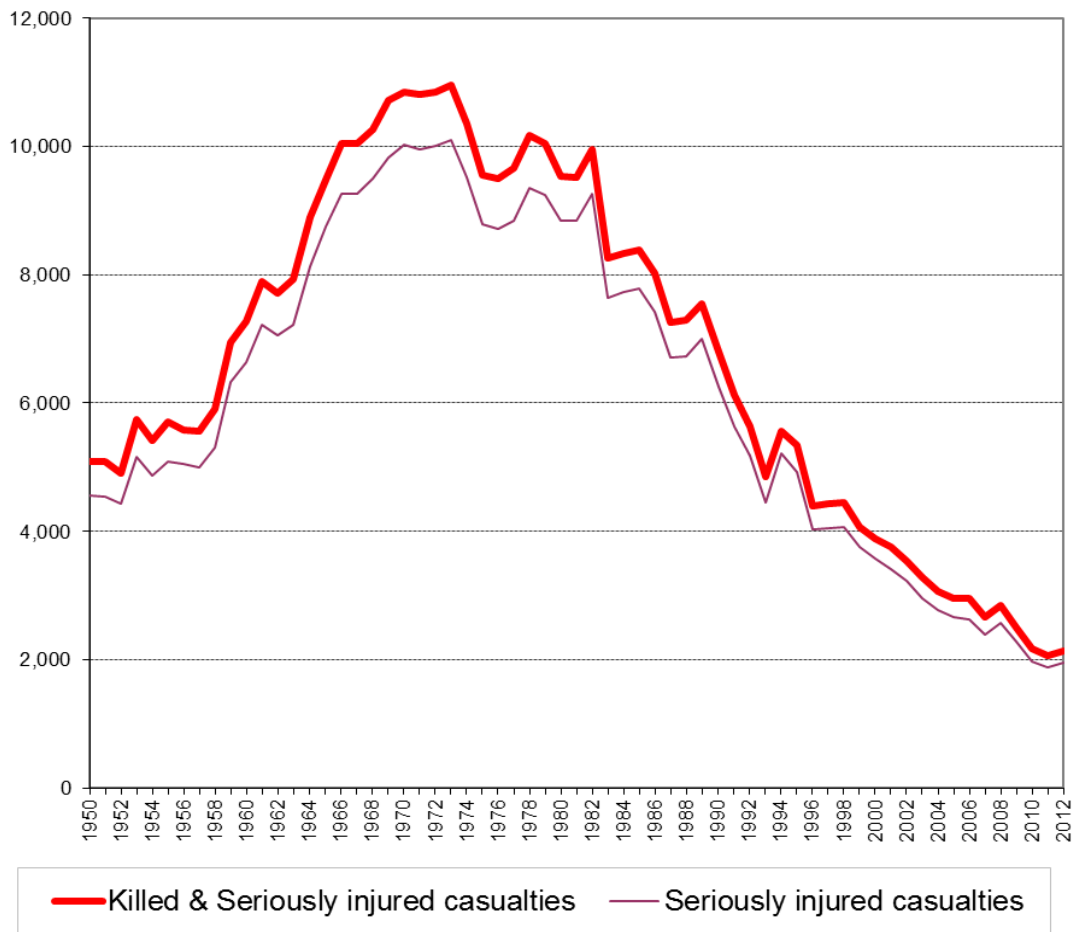
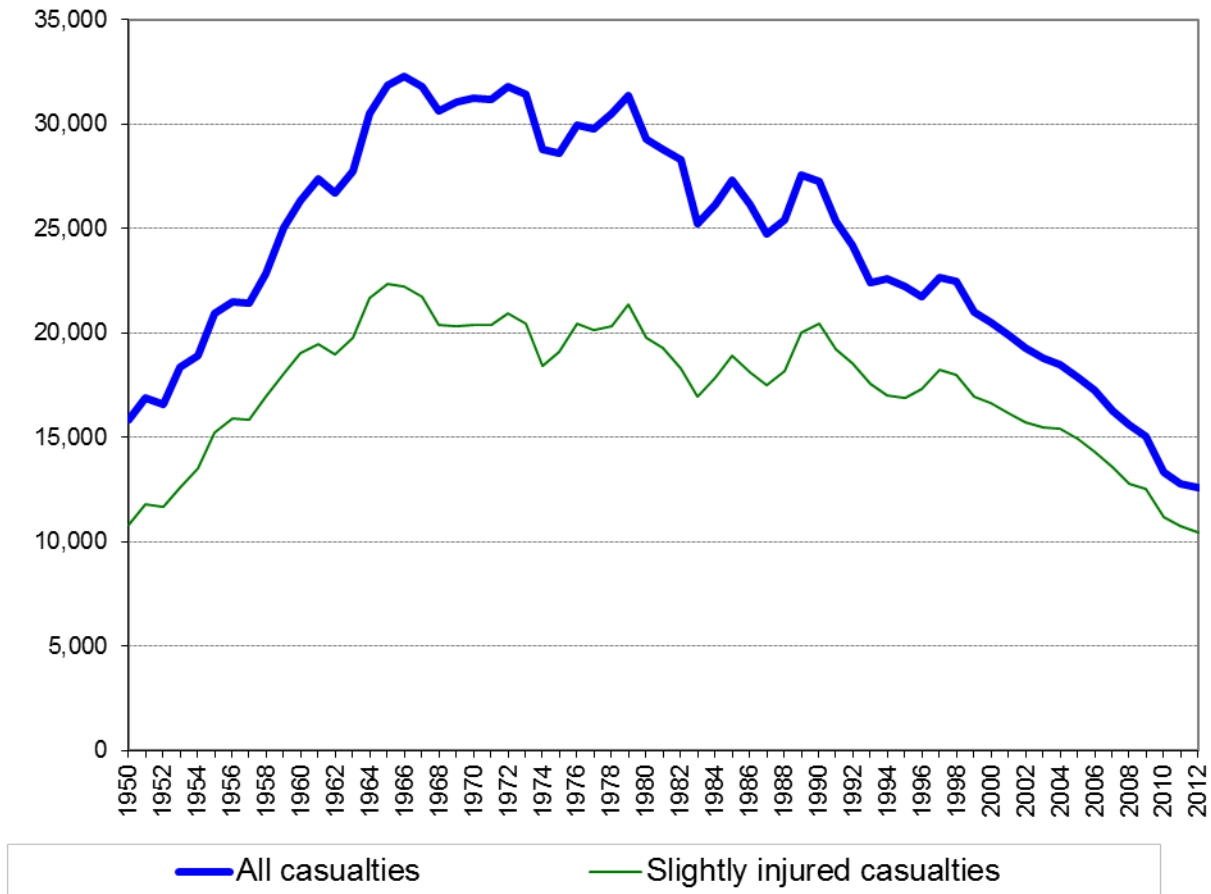


Figure 3: All casualties and Slightly injured casualties, 1950 - 2012



5. Casualties by Type of Road (Table 3)

5.1 In 2012, **non built-up roads** (roads with a speed limit of over 40mph, see 10.4 for more detail) accounted for two-fifths of the total number of reported casualties (41%: 5,121 out of 12,575). However, they accounted for three fifths of those killed (62%: 106 out of 170) and almost a half of the total number of killed and seriously injured combined (48%: 1,028 out of 2,129). This will be at least in part due to the higher average speed as non built-up roads are those with a speed limit of greater than 40 mph. These roads also make up two thirds of Scotland's road network.

5.2 Compared with the 2004-08 average, there has been a greater reduction in casualties on **non built-up roads** (29%) than built-up roads (25%). The reduction in non built-up roads fatalities was also greater at 49 per cent (non built up) and 22 per cent (built-up). Non built-up roads also had a greater reduction in those seriously injured (29% vs. 21%).

Table 3: Casualties by built-up and non built-up roads, mode of transport and severity, 2010-2012 & 2004-08 average

Mode of Transport	Built-up roads			Non built-up roads			All roads		
	Killed	Serious	All	Killed	Serious	All	Killed	Serious	All
Pedestrian									
2004-08 average	46	609	2,723	18	47	133	65	656	2,855
2010	33	432	1,911	14	25	102	47	457	2,013
2011	35	477	1,958	8	37	103	43	514	2,061
2012 prov.	42	430	1,868	12	26	82	54	456	1,950
% change on 2011	*	-10%	-5%	*	*	-20%	*	-11%	-5%
on 04-08 average	*	-29%	-31%	*	*	-38%	-16%	-30%	-32%
Pedal cycle									
2004-08 average	5	111	673	4	23	83	9	134	756
2010	1	115	688	6	23	93	7	138	781
2011	3	120	733	4	36	91	7	156	824
2012 prov.	5	135	786	4	32	112	9	167	898
% change on 2011	*	13%	7%	*	*	23%	*	7%	9%
on 04-08 average	*	21%	17%	*	*	34%	*	25%	19%
Motor cycle									
2004-08 average	6	159	561	36	212	489	42	371	1,049
2010	6	122	400	29	197	445	35	319	845
2011	9	114	427	24	179	381	33	293	808
2012 prov.	3	132	432	18	210	432	21	342	864
% change on 2011	*	16%	1%	*	17%	13%	*	17%	7%
on 04-08 average	*	-17%	-23%	*	-1%	-12%	*	-8%	-18%
Car									
2004-08 average	21	337	4,762	141	920	5,844	162	1,258	10,606
2010	15	233	3,865	90	670	4,436	105	903	8,301
2011	12	208	3,757	77	548	4,017	89	756	7,774
2012 prov.	12	269	3,636	60	567	3,941	72	836	7,577
% change on 2011	*	29%	-3%	-22%	3%	-2%	-19%	11%	-3%
on 04-08 average	*	-20%	-24%	-57%	-38%	-33%	-55%	-34%	-29%
Bus/Coach									
2004-08 average	0	50	669	0	5	80	1	55	749
2010	0	39	416	1	13	124	1	52	540
2011	1	46	411	0	5	93	1	51	504
2012 prov.	1	36	333	0	7	106	1	43	439
% change on 2011	*	*	-19%	*	*	14%	*	-16%	-13%
on 04-08 average	*	*	-50%	*	*	33%	*	-22%	-41%
Other modes of transport									
2004-08 average	4	42	489	10	90	591	14	132	1,080
2010	4	31	401	9	69	457	13	100	858
2011	3	36	388	9	71	418	12	107	806
2012 prov.	1	35	399	12	80	448	13	115	847
% change on 2011	*	*	3%	*	13%	7%	*	7%	5%
on 04-08 average	*	*	-18%	*	-11%	-24%	*	-13%	-22%
All casualties									
2004-08 average	82	1,309	9,877	209	1,297	7,220	292	2,605	17,097
2010	59	972	7,681	149	997	5,657	208	1,969	13,338
2011	63	1,001	7,674	122	876	5,103	185	1,877	12,777
2012 prov.	64	1,037	7,454	106	922	5,121	170	1,959	12,575
% change on 2011	2%	4%	-3%	-13%	5%	0%	-8%	4%	-2%
on 04-08 average	-22%	-21%	-25%	-49%	-29%	-29%	-42%	-25%	-26%

1 Figures for 2011 and earlier years may differ slightly to those previously published due to late returns, or corrections to earlier returns.

2 * indicates that a percentage change is not shown because the denominator is 50 or fewer.

6. Casualties by Mode of Transport (Table 3)

6.1 Figures on numbers of casualties by mode should be compared with data on mode use, for example as published in the road traffic or personal travel sections of Scottish Transport Statistics. Traffic estimates in table 5.3 show car traffic volumes fell by 2 per cent between 2008 and 2011. Over the same period motorcycle/moped use fell by 6 per cent and cycling volumes increased by 12 per cent. Data for 2012 will be published in August as part of *Transport and Travel in Scotland 2012*.

6.2 In 2012 there were 7,577 **car users** reported injured in road accidents; three fifths of all casualties (60%: 7,577 out of 12,575) and a 3 per cent fall on 2011. Of these, 72 were killed and 836 seriously injured (a decrease of 19% and an increase of 11% on 2011 respectively). Non built-up roads accounted for over half of all car user casualties (52%: 3,941 out of 7,577) but a much higher percentage of car user fatalities (83%: 60 out of 72) and those seriously injured (68%: 567 out of 836). Again likely due to higher average speeds on these types of roads.

6.3 There were 1,950 **pedestrian** casualties recorded in 2012: a sixth of all casualties (16%: 1,950 out of 12,575). Three per cent of pedestrian casualties were killed (54 out of 1,950) and 23 per cent seriously injured (456 out of 1,950). 96 per cent of pedestrian casualties occurred on **built-up** roads (1,868 out of 1,950). 32 per cent of pedestrian casualties on **non built-up** roads were seriously injured (26 out of 82) compared with 23 per cent on built-up roads (430 out of 1,868).

6.4 Together, **all other modes of transport** accounted for a quarter (24%) of casualties in 2012 (3,048 out of 12,575), for a similar proportion of those killed (26%: 44 out of 170) and a third of those seriously injured (34%: 667 out of 1,959).

6.5 Motor cycle and Pedal Cycle casualty numbers increased in 2012 compared to 2011, by 7 per cent and 9 per cent respectively. In 2012, 864 **motor cycle** casualties were reported (7% more than 2011), of whom 342 (40% and an increase of 17% on 2011) suffered serious injuries (21 died, a reduction of 12 on 2011). There were 898 **pedal cyclist** casualties recorded in 2012, 9 per cent more than in 2011. 167 (19% and an increase of 7% on 2011) were seriously injured and 9 died (two more than in 2011). There are now more cyclists on the roads which will impact on cycling casualty numbers with numbers increasing by around 30 per cent in the last ten years, as shown by the National Travel Survey and Traffic estimates published in Scottish Transport Statistics.

6.6 A total of 439 **bus and coach** users were reported injured (a reduction of 13% on 2011), of whom 43 (8 less than 2011) were seriously injured (one died).

7. Child Casualties (Table 4)

7.1 There were 1,161 **child** casualties reported in 2012 representing 9 per cent of all casualties (1,161 out of 12,575) and a reduction of 155 (or 12%) on 2011. Of these, 193 were seriously injured and 2 died. This was 5 less deaths than in 2011 but the numbers of fatalities are small, so care should be taken when drawing conclusions from year on year changes and trends should be looked at over the longer term. The three year average used to monitor progress against the Road Safety Framework targets shows individual years as fluctuating around the longer term trend.

7.2 There were 516 child **pedestrian** casualties recorded in 2012. They accounted for 26 per cent of all pedestrian casualties of all ages (516 out of 1,950). Of the child pedestrian casualties, 131 were seriously injured (1 died). The number killed was one less than in 2011 and the number of seriously injured was 8 less than in 2011.

7.3 In 2012, there were 450 child casualties in **cars**, 6 per cent of all car user casualties (450 out of 7,577). Of the child casualties in cars, 34 were seriously injured (none died): no change in the number of serious but 5 less killed than in 2011. In 2012, there were 121 child **pedal cycle** casualties (13% of the total of 898 pedal cycle casualties of all ages) including 21 who were seriously injured (one died).

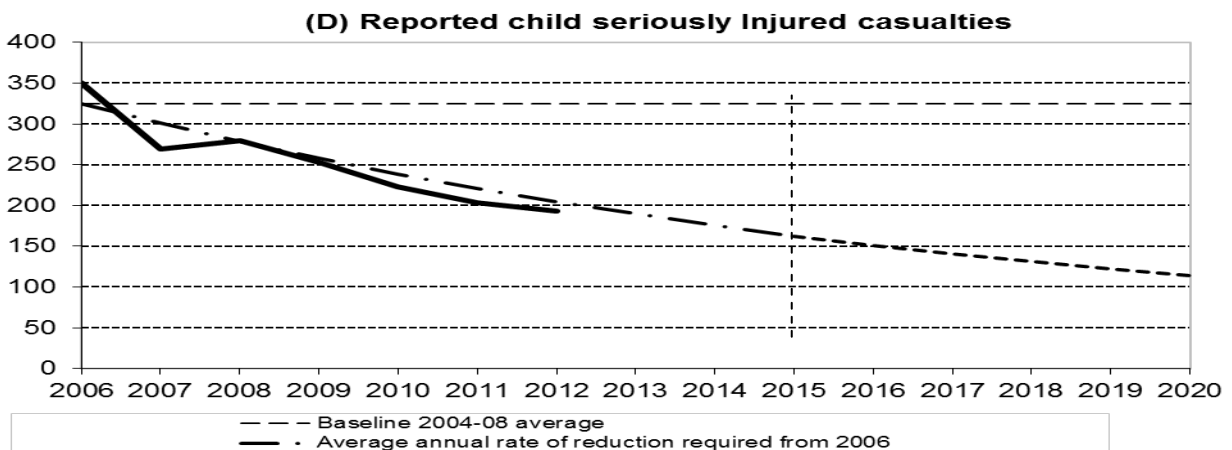
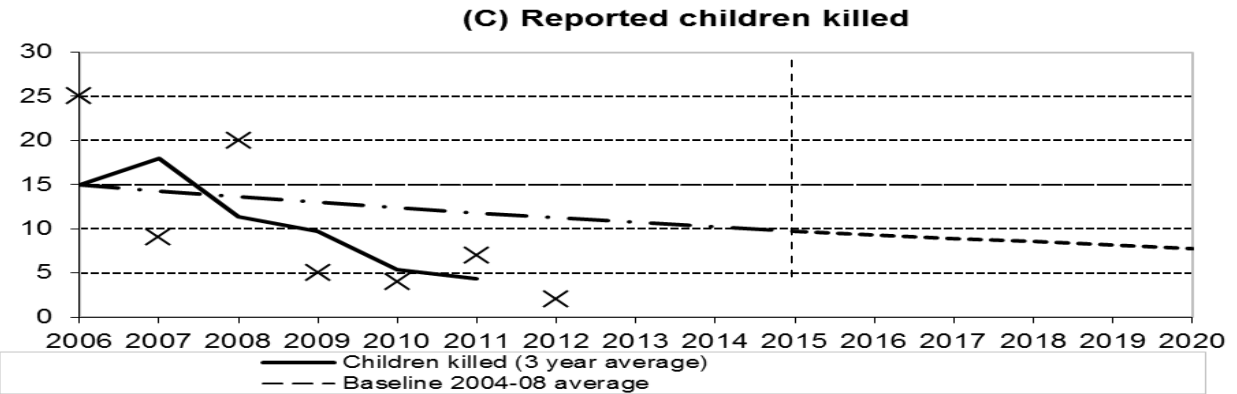
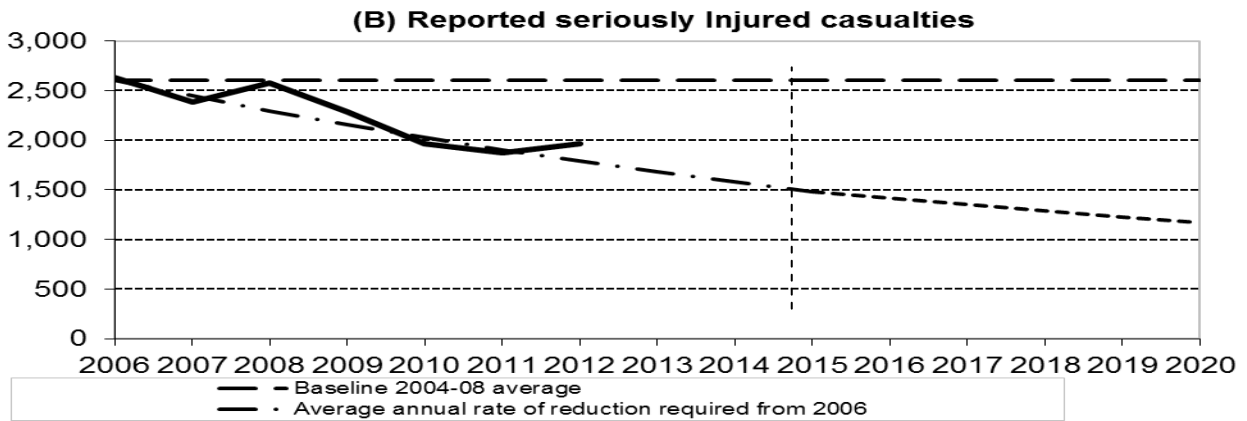
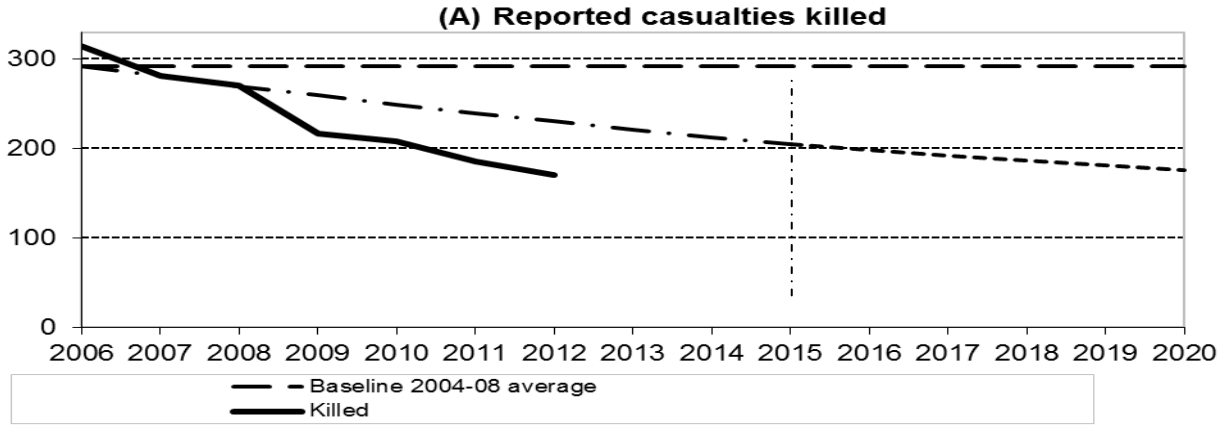
Table 4: Child casualties by built-up and non built-up roads, mode of transport and severity, 2010-2012 & 2004-08 average

Mode of Transport	Built-up roads			Non built-up roads			All roads		
	Killed	Serious	All	Killed	Serious	All	Killed	Serious	All
Pedestrian									
2004-08 average	4	210	976	2	9	21	6	218	997
2010	1	146	634	0	4	8	1	150	642
2011	2	135	631	0	4	15	2	139	646
2012 <i>prov.</i>	1	126	506	0	5	10	1	131	516
% change on 2011	*	-7%	-20%	*	*	*	*	-6%	-20%
on 04-08 average	*	-40%	-48%	*	*	*	*	-40%	-48%
Pedal cycle									
2004-08 average	2	27	194	1	2	9	2	29	203
2010	1	22	137	0	1	9	1	23	146
2011	0	21	130	0	2	5	0	23	135
2012 <i>prov.</i>	1	18	114	0	3	7	1	21	121
% change on 2011	*	*	-12%	*	*	*	*	*	-10%
on 04-08 average	*	*	-41%	*	*	*	*	*	-40%
Car									
2004-08 average	1	18	316	6	44	353	6	62	670
2010	1	13	233	0	27	272	1	40	505
2011	1	8	204	4	26	256	5	34	460
2012 <i>prov.</i>	0	14	224	0	20	226	0	34	450
% change on 2011	*	*	10%	*	*	-12%	*	*	-2%
on 04-08 average	*	*	-29%	*	*	-36%	*	-45%	-33%
Bus/Coach									
2004-08 average	0	3	68	0	0	20	0	3	88
2010	0	4	44	0	3	10	0	7	54
2011	0	3	42	0	1	11	0	4	53
2012 <i>prov.</i>	0	1	33	0	0	10	0	1	43
% change on 2011	*	*	*	*	*	*	*	*	-19%
on 04-08 average	*	*	-51%	*	*	*	*	*	-51%
Other									
2004-08 average	1	9	39	0	3	23	1	13	62
2010	0	3	25	1	0	5	1	3	30
2011	0	3	19	0	0	3	0	3	22
2012 <i>prov.</i>	0	1	17	0	5	14	0	6	31
% change on 2011	*	*	*	*	*	*	*	*	*
on 04-08 average	*	*	*	*	*	*	*	*	-50%
All child casualties									
2004-08 average	7	267	1,593	8	59	426	15	325	2,019
2010	3	188	1,073	1	35	304	4	223	1,377
2011	3	170	1,026	4	33	290	7	203	1,316
2012 <i>prov.</i>	2	160	894	0	33	267	2	193	1,161
% change on 2011	*	-6%	-13%	*	*	-8%	*	-5%	-12%
on 04-08 average	*	-40%	-44%	*	-44%	-37%	*	-41%	-42%

1 Figures for 2011 and earlier years may differ slightly to those previously published due to late returns, or corrections to earlier returns.

2 * indicates that a percentage change is not shown because the denominator is 50 or fewer.

Figure 4: Progress towards the 2020 casualty reduction targets



8. Progress towards the casualty reduction targets for 2020 (Tables 5-9)

Target: 40% reduction in those killed by 2020

8.1 There were 170 people killed in 2012, **42 per cent** below the 2004-08 baseline average level. Section 10.5 shows the relevant "indicative line" figure for 2012 (the reduction needed to achieve the 2020 target by means of a constant annual percentage reduction) is 21.2 per cent below the 2004-08 baseline average. *Table 5* shows that car and motor cycle fatalities were below this line in 2012. Pedestrian, Pedal Cycle and Goods fatalities were not.

Table 5: People killed by mode of transport, 1994 – 2012

	Pede- strian	Pedal cycle	Motor cycle	Car	Bus/ coach	Goods ¹	Other ²	All road users
1994-98 ave	104	11	31	209	3	15	5	378
1994	111	5	24	197	9	14	3	363
1995	121	11	33	221	1	19	3	409
1996	106	15	29	185	3	14	5	357
1997	87	9	37	219	2	16	7	377
1998	96	13	33	223	1	13	6	385
1999	89	8	30	169	1	11	2	310
2000	72	12	40	182	1	15	4	326
2001	76	10	49	194	0	14	5	348
2002	73	8	46	154	0	21	2	304
2003	63	14	50	189	1	14	5	336
2004	76	7	42	167	3	12	1	308
2005	66	16	34	153	0	15	2	286
2006	61	10	58	175	0	8	2	314
2007	60	4	40	160	0	15	2	281
2008	60	9	34	153	1	8	5	270
2009	47	5	43	116	0	5	0	216
2010	47	7	35	105	1	8	5	208
2011	43	7	33	89	1	9	3	185
2012 prov.	54	9	21	72	1	13	0	170
2004-08 average	65	9	42	162	1	12	2	292
2008-12 average	50	7	33	107	1	9	3	210
<i>Numbers in 2012 implied by target</i>	51	7	33	128	1	9	2	231
<u>2012 % change:</u>	*	*	*	-19%	*	*	*	-8%
on 2011								
on 04-08 ave	-16%	*	*	-55%	*	*	*	-42%

* A percentage change is not shown if the denominator is 50 or fewer.

1. Light goods vehicles and heavy goods vehicles.

2. Taxis, minibuses and other modes of transport.

Target: 55% reduction in those seriously injured by 2020

8.2 There were 1,959 serious injuries in 2012, 25 per cent below the 2004-08 baseline level. Two fifths of those seriously injured in 2012 were **car users**. The 2012 figure for serious car casualties (836) was 34 per cent below the 2004-08 average. There were 456 seriously injured **pedestrians** reported in 2012, 30 per cent fewer than the 2004-08 average. **Goods vehicle** serious casualties were 19 per cent lower, **bus/coach** users seriously injured, 22 per cent lower and **motorcycle** serious casualties were 8 per cent lower. Serious casualties for **pedal cyclists** were 7 per cent higher than in 2011 and 25 per cent higher than in the 2004-2008 baseline period. Levels are similar to the turn of the century, though levels of cycling in Scotland have increased by 30 per cent since then.

Table 6: People seriously injured by mode of transport, 1994 – 2012

	Pede- strian	Pedal cycle	Motor cycle	Car	Bus/ coach	Goods¹	Other²	All road users
1994-98 ave	1,272	238	324	2,292	93	156	84	4,460
1994	1,536	311	329	2,607	141	197	87	5,208
1995	1,466	281	362	2,432	104	192	93	4,930
1996	1,173	201	271	2,108	93	123	72	4,041
1997	1,124	201	321	2,146	53	120	82	4,047
1998	1,060	197	338	2,167	75	150	85	4,072
1999	1,054	181	401	1,835	82	133	79	3,765
2000	925	164	435	1,796	79	106	63	3,568
2001	842	161	405	1,758	62	115	67	3,410
2002	820	144	410	1,628	59	120	48	3,229
2003	712	125	367	1,511	69	114	59	2,957
2004	674	121	353	1,414	63	83	58	2,766
2005	677	116	371	1,304	63	83	52	2,666
2006	688	131	352	1,258	57	91	58	2,635
2007	594	147	381	1,110	33	87	33	2,385
2008	645	155	396	1,203	59	65	52	2,575
2009	509	152	332	1,136	36	73	50	2,288
2010	457	138	319	903	52	60	40	1,969
2011	514	156	293	756	51	63	44	1,877
2012 <i>prov.</i>	456	167	342	836	43	66	49	1,959
2004-08 average	656	134	371	1,258	55	82	51	2,605
2008-12 average	516	154	336	967	48	65	47	2,134
<i>Numbers in 2012 implied by target</i>	450	92	255	864	38	56	35	1,790
<u>2012 % change:</u>	-11%	7%	17%	11%	-16%	5%	*	4%
on 2011								
on 04-08 ave	-30%	25%	-8%	-34%	-22%	-19%	-3%	-25%

* A percentage change is not shown if the denominator is 50 or fewer.

1. Light goods vehicles and heavy goods vehicles.

2. Taxis, minibuses and other modes of transport.

Target: 50% reduction in children killed by 2020

8.3 One of the two children killed in 2012 was a pedestrian and the other was a pedal cyclist. Due to small numbers and year-to-year fluctuations this target is measured using a three year average. An average of 4 children a year were killed in the 2010-2012 period, 72 per cent below the 2004-2008 baseline.

Table 7: Children killed by mode of transport, 1994 - 2012

	Pede- strian	Pedal cycle	Motor cycle	Car	Bus/ coach	Goods ¹	Other ²	All road users	3 year average ³
1994-98 ave	17	3	0	8	1	0	0	30	
1994	18	4	1	10	4	-	-	37	
1995	16	3	-	11	-	-	-	30	31
1996	16	6	1	3	1	-	-	27	28
1997	15	1	-	9	-	1	-	26	28
1998	18	3	-	9	1	-	1	32	28
1999	17	1	-	6	-	-	1	25	26
2000	13	4	-	4	-	-	-	21	22
2001	14	4	-	2	-	-	-	20	18
2002	12	-	-	2	-	-	-	14	17
2003	5	2	-	10	-	-	-	17	14
2004	8	-	1	3	-	-	-	12	13
2005	5	4	-	1	-	-	1	11	16
2006	9	5	-	10	-	1	-	25	15
2007	4	1	-	4	-	-	-	9	18
2008	4	2	1	13	-	-	-	20	11
2009	1	1	-	3	-	-	-	5	10
2010	1	1	1	1	-	-	-	4	5
2011	2	-	-	5	-	-	-	7	4
2012 prov.	1	1	-	-	-	-	-	2	
2004-08 average	6	2	0	6	-	0	0	15	
2008-12 average	2	1	0	4	-	-	-	8	
2010-12 average									4
2010-12 avg % change on 04-08 ave									-72%

1. Light goods vehicles and heavy goods vehicles.

2. Taxis, minibuses and other modes of transport.

3. All averages rounded to whole percentages.

Target: 65% reduction in children seriously injured by 2020

8.4 There were 193 children seriously injured in 2012, 41 per cent below the 2004-08 baseline level. About two-thirds of the 193 children recorded as seriously injured in 2012 were **pedestrians**: 131, 40 per cent below the 2004-08 average. There were 34 child **car** seriously injured casualties recorded in 2012, a fall of 45 per cent from the 2004-08 average. The numbers of serious casualties for other modes of transport were much lower and the differences between the 2004 -08 average were also much smaller.

Table 8: Children seriously injured by mode of transport, 1994 - 2012

	Pede- strian	Pedal cycle	Motor cycle	Car	Bus/ coach	Goods ¹	Other ²	All road users
1994-98 ave	546	96	5	136	10	8	10	812
1994	656	140	5	151	20	12	8	992
1995	622	110	7	142	9	13	17	920
1996	524	94	3	115	14	3	10	763
1997	490	77	4	129	3	6	10	719
1998	437	61	8	144	5	6	5	666
1999	413	68	5	102	2	2	8	600
2000	365	61	7	90	7	5	5	540
2001	339	52	7	108	5	6	7	524
2002	328	46	7	109	9	7	7	513
2003	268	46	5	83	5	2	6	415
2004	239	40	9	74	3	3	4	372
2005	239	26	11	68	6	2	5	357
2006	239	35	10	60	4	0	2	350
2007	181	28	4	51	1	1	3	269
2008	194	18	5	56	2	1	3	279
2009	155	26	2	62	2	1	5	253
2010	150	23	3	40	7	0	0	223
2011	139	23	2	34	4	0	1	203
2012 prov.	131	21	1	34	1	5	0	193
2004-08 average	218	29	8	62	3	1	3	325
2008-12 average	154	22	3	45	3	1	2	230
<i>Numbers in 2012 implied by target</i>	138	19	5	39	2	1	2	205
<u>2012 % change:</u>	-6%	*	*	*	*	*	*	-5%
on 2011								
on 04-08 ave	-40%	*	*	-45%	*	*	*	-41%

* A percentage change is not shown if the denominator is 50 or fewer.

1. Light goods vehicles and heavy goods vehicles.

2. Taxis, minibuses and other modes of transport.

Target: 10% reduction in slight casualties by 2020 (per 100 million vehicle kilometres)

8.5 Table 9 shows that the 2011 slight casualty rate was 24.69 casualties per 100 million vehicle kilometres (As 2011 is the latest year for which there is an estimate of the total volume of traffic for Scotland as a whole). This was 24 per cent below the 2004-08 baseline average and exceeds the 2020 target.

8.6 Around two thirds of slight casualties reported in 2012 were **car users**. The total number of car user slight casualties recorded in 2012 was 6,669, 27 per cent below the 2004-08 average. There were 1,440 **pedestrian** slight casualties reported, 33 per cent less than the 2004-08 average. **Bus and coach** user slight casualties totalled 395 in 2012, 43 per cent fewer than the 2004-08 average. The recorded number of **pedal cyclist** slight

casualties (722) was 18 per cent above the baseline average and similar to numbers at the turn of the century though cycling levels have increased by 30% over the period. Reported **goods vehicle** user slight casualties (408) were 19 per cent fewer than the baseline average and recorded **motorcyclist** slight casualties (501 in 2012) were 21 per cent below the 2004-08 average.

Table 9: Slight casualties by mode of transport, 1994 - 2012

	Pede- strian	Pedal cycle	Motor cycle	Car	Bus/ coach	Goods ¹	Other ²	All road	Slight	
								users	Traffic	casualty rate
								numbers	mill veh-km	per 100 mill veh-km
1994-98 ave	3,009	1,034	580	10,859	912	583	501	17,478	37,653	46.42
1994	3,083	1,068	577	10,123	1,084	669	398	17,002	36,000	47.23
1995	3,048	1,031	576	10,321	802	579	498	16,855	36,737	45.88
1996	3,047	1,081	550	10,740	902	499	499	17,318	37,777	45.84
1997	2,944	1,062	590	11,669	886	525	529	18,205	38,581	47.19
1998	2,921	930	605	11,444	887	643	580	18,010	39,168	45.98
1999	2,620	828	594	10,901	841	609	534	16,927	39,770	42.56
2000	2,607	708	655	10,675	854	542	582	16,623	39,561	42.02
2001	2,487	745	724	10,342	761	595	499	16,153	40,065	40.32
2002	2,423	676	711	10,050	801	621	460	15,742	41,535	37.90
2003	2,215	663	697	10,055	822	537	474	15,463	42,038	36.78
2004	2,328	648	599	10,024	849	561	419	15,428	42,705	36.13
2005	2,308	649	677	9,532	794	495	478	14,933	42,718	34.96
2006	2,104	640	658	9,272	706	484	456	14,320	44,120	32.46
2007	2,050	563	640	8,793	590	506	431	13,573	44,666	30.39
2008	1,888	566	612	8,314	527	467	373	12,747	44,470	28.66
2009	1,643	647	646	8,328	437	423	416	12,540	44,219	28.36
2010	1,509	636	491	7,293	487	386	359	11,161	43,488	25.66
2011	1,504	661	482	6,929	452	382	305	10,715	43,390	24.69
2012 prov.	1,440	722	501	6,669	395	408	311	10,446		
2004-08 average	2,136	613	637	9,187	693	503	431	14,200		32.52
2008-12 average	1,597	646	546	7,507	460	413	353	11,522
<i>Rate in 2011 implied by target</i>										31.61
<u>2012 % change:</u> on 2011	-4%	9%	4%	-4%	-13%	7%	2%	-3%
on 04-08 ave	-33%	18%	-21%	-27%	-43%	-19%	-28%	-26%	..	-24% ³

1. Light goods vehicles and heavy goods vehicles.

2. Taxis, minibuses and other modes of transport.

3. Relates to 2011 data as 2012 traffic estimates not yet available.

9. Accidents and Casualties by Police Force division and Local Authority area (Tables 10 & 11)

9.1 *Tables 10 and 11* show the reported numbers of accidents and casualties in each Police Force division and each Local Authority area. These are *provisional* figures, which are subject to a higher degree of revision from late returns and amendments. In addition, there can be quite large percentage year-to-year fluctuations in the figures for areas (as roads are often the boundary between areas/forces) within Scotland, particularly for those with the lower numbers. Therefore, the annual average for the latest five years may be a better guide to the “normal” level of the numbers than the figures for the latest year.

Table 10: Accidents by police force division, council and severity, 04-08, 08-12 averages and 2012

Police division Council	2004-08 average			2012 (provisional)			2008-2012 average (provisional)		
	Fatal	Serious	All	Fatal	Serious	All	Fatal	Serious	All
Aberdeen City	5	74	423	7	92	376	5	89	410
Aberdeenshire & Moray	36	164	783	16	204	654	21	203	764
Aberdeenshire	30	131	608	14	168	528	18	172	605
Moray	6	33	175	2	36	126	4	31	159
Tayside	28	234	986	17	156	741	24	178	814
Dundee City	3	61	290	2	42	226	4	50	247
Angus	11	67	294	5	40	202	7	48	226
Perth & Kinross	14	105	401	10	74	313	13	79	341
Argyll & West Dunbartonshire	15	99	507	7	62	344	10	80	409
Argyll & Bute	11	67	298	4	46	211	8	58	257
West Dunbartonshire	4	32	209	3	16	133	2	22	152
Forth Valley	14	140	679	14	123	567	10	116	593
Clackmannanshire	2	16	89	0	16	84	2	14	76
Stirling	7	65	288	4	48	214	5	51	240
Falkirk	5	58	302	10	59	269	4	51	277
Dumfries & Galloway	12	106	455	6	66	318	7	78	361
Ayrshire	20	143	812	8	93	579	13	115	642
North Ayrshire	6	52	291	2	33	205	4	38	217
East Ayrshire	7	47	259	3	34	173	5	39	205
South Ayrshire	7	44	262	3	26	201	4	39	221
Greater Glasgow	21	307	2,170	9	222	1,520	16	251	1,660
Glasgow City	18	264	1,870	7	187	1,310	13	214	1,418
East Dunbartonshire	2	24	172	0	23	113	2	19	136
East Renfrewshire	2	19	129	2	12	97	1	18	106
Lothians & Scottish Borders	28	211	1,296	16	150	1,026	17	175	1,102
West Lothian	9	64	463	5	49	380	4	56	403
Midlothian	3	36	226	2	21	214	2	27	202
East Lothian	4	31	208	0	22	169	2	25	179
Scottish Borders	12	80	399	9	58	263	9	68	318
Edinburgh	9	177	1,403	13	176	1,164	9	155	1,200
Highlands & Islands	29	148	754	16	83	524	23	101	618
Highland	25	124	634	11	70	455	21	85	524
Orkney Islands	1	6	35	4	3	16	1	4	24
Shetland Islands	2	6	38	0	5	27	0	4	30
Eilean Siar	2	11	47	1	5	26	1	7	40
Fife	15	134	663	6	91	421	10	91	518
Renfrewshire & Inverclyde	9	94	634	8	69	473	7	79	498
Inverclyde	1	31	194	0	23	136	1	25	159
Renfrewshire	8	63	441	8	46	337	5	54	339
Lanarkshire	25	197	1463	13	130	966	20	160	1143
North Lanarkshire	11	95	742	4	67	512	8	75	594
South Lanarkshire	15	102	721	9	63	454	12	85	549
Scotland	268	2,226	13,026	156	1,717	9,673	192	1,869	10,732

Note: Latest year is provisional, see paragraph 9.1

Table 11: Casualties by police force division, council and severity, 04-08, 08-12 averages and 2012

Police division Council	2004-08 average			2012 (provisional)			2008-2012 average (provisional)		
	Fatal	Serious	All	Fatal	Serious	All	Fatal	Serious	All
Aberdeen City	6	82	496	8	107	440	6	99	470
Aberdeenshire & Moray	41	206	1,053	16	247	850	24	249	990
Aberdeenshire	33	166	824	14	203	684	20	211	789
Moray	7	41	230	2	44	166	4	38	200
Tayside	30	278	1,291	19	180	918	25	205	1,040
Dundee City	3	65	351	2	47	263	4	53	295
Angus	12	83	401	5	45	263	7	56	294
Perth & Kinross	15	131	539	12	88	392	14	97	450
Argyll & West Dunbartonshire	16	121	698	7	82	463	11	97	554
Argyll & Bute	12	87	427	4	63	297	8	74	367
West Dunbartonshire	4	34	271	3	19	166	2	23	187
Forth Valley	15	168	911	14	138	731	11	132	773
Clackmannanshire	2	20	117	0	19	113	2	17	100
Stirling	7	82	392	4	55	278	5	60	319
Falkirk	5	66	401	10	64	340	4	55	354
Dumfries & Galloway	14	127	621	6	83	426	8	92	479
Ayrshire	22	173	1,078	9	108	772	14	135	842
North Ayrshire	6	64	387	2	36	259	4	43	277
East Ayrshire	8	56	338	3	43	234	5	48	270
South Ayrshire	8	53	353	4	29	279	5	44	295
Greater Glasgow	21	331	2,718	9	227	1,900	16	264	2,065
Glasgow City	18	281	2,332	7	189	1,636	13	224	1,759
East Dunbartonshire	2	26	222	0	26	143	2	21	174
East Renfrewshire	2	24	165	2	12	121	2	19	131
Lothians & Scottish Borders	29	250	1,780	19	172	1,413	20	203	1,491
West Lothian	9	78	659	5	58	518	5	64	555
Midlothian	3	41	297	4	22	307	3	29	273
East Lothian	4	36	267	0	23	218	3	29	229
Scottish Borders	12	95	557	10	69	370	9	80	434
Edinburgh	9	188	1,673	13	189	1,373	9	162	1,415
Highlands & Islands	33	189	1,111	20	109	797	27	125	915
Highland	28	160	942	14	90	696	25	106	779
Orkney Islands	1	7	47	5	5	24	1	5	33
Shetland Islands	2	8	51	0	6	37	0	5	47
Eilean Siar	2	14	71	1	8	40	1	9	56
Fife	18	159	872	7	100	549	10	108	674
Renfrewshire & Inverclyde	9	106	823	8	72	601	7	86	641
Inverclyde	2	36	256	0	26	170	1	28	205
Renfrewshire	8	70	567	8	46	431	6	58	436
Lanarkshire	27	228	1,972	15	145	1,342	22	176	1,518
North Lanarkshire	12	107	1,012	6	73	702	8	80	789
South Lanarkshire	16	121	960	9	72	640	13	96	729
Scotland	292	2,605	17,097	170	1,959	12,575	210	2134	13,865

Note: Latest year is provisional, see paragraph 9.1

Table 11a Accidents by former police force area and severity, 2004-08, 2008-12 averages and 2012

Police force	2004-08 average			2012 (provisional)			2008-2012 average (provisional)		
	Fatal	Serious	All	Fatal	Serious	All	Fatal	Serious	All
Northern	29	148	754	16	83	524	23	101	618
Grampian	41	238	1,206	23	296	1,030	27	292	1,174
Tayside	28	234	986	17	156	741	24	178	814
Fife	15	134	663	6	91	421	10	91	518
Lothian & Borders	37	388	2,698	29	326	2,190	26	330	2,302
Central	14	140	679	14	123	567	10	116	593
Strathclyde	91	839	5,586	45	576	3,882	65	685	4,352
Dumfries & Galloway	12	106	455	6	66	318	7	78	361
Scotland	268	2,226	13,026	156	1,717	9,673	192	1,869	10,733

Table 11b Casualties by former police force area and severity, 2004-08, 2008-12 averages and 2012

Police force	2004-08 average			2012 (provisional)			2008-2012 average (provisional)		
	Fatal	Serious	All	Fatal	Serious	All	Fatal	Serious	All
Northern	33	189	1,111	20	109	797	27	125	915
Grampian	46	288	1,550	24	354	1,290	30	348	1,460
Tayside	30	278	1,291	19	180	918	25	205	1,040
Fife	18	159	872	7	100	549	10	108	674
Lothian & Borders	38	437	3,453	32	361	2,786	29	365	2,906
Central	15	168	911	14	138	731	11	132	773
Strathclyde	97	958	7,288	48	634	5,078	70	759	5,619
Dumfries & Galloway	14	127	621	6	83	426	8	92	479
Scotland	292	2,605	17,097	170	1,959	12,575	210	2,134	13,866

Table 12 Casualties by gender, severity and age, 2003 – 2012

			All severities												Child	Adult
Male	Killed	Serious	Under 5	5-11	12-15	16-22	23-29	30-39	40-49	50-59	60-69	70 and over	Total ¹	0-15	16+	
2003	231	1,918	192	735	552	2,145	1,344	2,091	1,523	980	578	489	10,657	1,479	9,150	
2004	225	1,807	191	667	539	2,038	1,392	2,070	1,519	976	571	480	10,473	1,397	9,046	
2005	209	1,745	157	603	496	2,165	1,364	1,892	1,578	932	523	480	10,204	1,256	8,934	
2006	244	1,672	152	557	451	2,099	1,378	1,662	1,511	946	505	447	9,723	1,160	8,548	
2007	207	1,631	130	500	427	2,041	1,300	1,556	1,475	879	521	458	9,302	1,057	8,230	
2008	191	1,684	127	449	407	1,869	1,256	1,486	1,424	866	477	469	8,843	983	7,847	
2009	162	1,486	105	399	302	1,845	1,197	1,412	1,398	821	511	444	8,450	806	7,628	
2010	146	1,275	109	375	336	1,459	1,050	1,275	1,272	817	461	377	7,541	820	6,711	
2011	139	1,217	122	364	272	1,275	974	1,201	1,315	854	514	404	7,302	758	6,537	
2012	123	1,291	93	313	243	1,307	1,016	1,131	1,228	918	442	444	7,138	649	6,486	
All severities																
Female	Killed	Serious	Under 5	5-11	12-15	16-22	23-29	30-39	40-49	50-59	60-69	70 and over	Total ¹	Child	Adult	
2003	105	1,039	126	452	422	1,321	1,019	1,502	1,137	828	565	693	8,086	1,000	7,065	
2004	83	958	116	450	430	1,424	1,009	1,460	1,078	835	535	667	8,016	996	7,008	
2005	77	919	113	375	418	1,375	931	1,295	1,112	820	542	670	7,658	906	6,745	
2006	70	962	108	345	404	1,460	908	1,257	1,123	781	519	619	7,532	857	6,667	
2007	74	753	96	328	332	1,377	931	1,074	953	760	482	579	6,917	756	6,156	
2008	79	890	106	304	295	1,305	920	1,032	1,028	691	476	577	6,738	705	6,029	
2009	54	802	96	283	288	1,240	901	1,013	992	718	486	556	6,588	667	5,906	
2010	62	693	61	256	240	1,032	835	916	913	635	416	478	5,787	557	5,225	
2011	46	659	82	226	249	967	713	872	828	599	423	500	5,469	557	4,902	
2012	47	667	84	225	199	967	774	774	831	644	416	516	5,431	508	4,922	
All severities																
Total	Killed	Serious	Under 5	5-11	12-15	16-22	23-29	30-39	40-49	50-59	60-69	70 and over	Total ¹	Child	Adult	
2003	336	2,957	318	1,188	974	3,467	2,364	3,594	2,660	1,808	1,143	1,187	18,756	2,480	16,223	
2004	308	2,766	307	1,119	969	3,463	2,402	3,530	2,597	1,811	1,107	1,151	18,502	2,395	16,061	
2005	286	2,666	280	978	914	3,540	2,296	3,187	2,691	1,752	1,065	1,153	17,885	2,172	15,684	
2006	314	2,635	265	902	855	3,559	2,286	2,919	2,634	1,727	1,024	1,066	17,269	2,022	15,215	
2007	281	2,385	229	829	759	3,419	2,232	2,630	2,429	1,639	1,003	1,041	16,239	1,817	14,393	
2008	270	2,575	234	753	702	3,174	2,179	2,519	2,452	1,557	953	1,047	15,592	1,689	13,881	
2009	216	2,288	201	682	590	3,085	2,098	2,425	2,390	1,539	997	1,000	15,044	1,473	13,534	
2010	208	1,969	170	631	576	2,491	1,885	2,191	2,185	1,452	877	855	13,338	1,377	11,936	
2011	185	1,877	205	590	521	2,242	1,688	2,073	2,143	1,453	937	904	12,777	1,316	11,440	
2012	170	1,959	181	538	442	2,274	1,790	1,905	2,059	1,563	858	960	12,575	1,161	11,409	

10. Sources and definitions

10.1 The sources of the data

The figures in this bulletin were compiled from the "Stats 19" statistical returns made by police forces. These cover all accidents in which a vehicle is involved that occur on roads (including footways) and result in personal injury, *if* they become known to the police. As noted in section 2.2, there could be many non-fatal injury accidents which are *not* reported by the public to the police, and are therefore *not* counted in these statistics because the police can only include in their returns details of the accidents of which they are aware. More information about this is given in *Reported Road Casualties Scotland 2010*, in the section entitled *Estimating under-counting of Road Casualties in Scotland*. The vehicle(s) involved in the accident need not be moving, and need not be in collision - for example, the returns include accidents involving people alighting from buses. Damage only accidents (i.e. accidents which do not involve personal injury) are not included in these statistics. Transport Scotland are looking at alternative data sources to estimate the levels of under reporting.

10.2 Provisional data

Data used in this publication was extracted from Transport Scotland's reported road accident statistical database in May 2013. The figures published here are marked as provisional as late returns and amendments will be included in the final figures published in *Reported Road Casualties Scotland* in October and in figures included in later years publications.

The differences between the provisional and final numbers are likely to be small. The figures for previous years are included in the table below. Over the last three years, there has been no difference in the number of people killed between the June and October publications. The figure published in *Reported Road Casualties Scotland* has been 0.1% higher for Serious and Slight casualties and all severities. Differences may be larger for some subsets of the data, for example the tables by mode, so small changes should be treated with caution.

Killed					Serious				
Year	KRRC (June)	RRCS (October)	Difference (no.)	Difference (% of June)	Year	KRRC (June)	RRCS (October)	Difference (no.)	Difference (% of June)
2001	347	347	0		2001	3,405	3,406	1	0.0%
2002	304	305	1	0.3%	2002	3,204	3,213	9	0.3%
2003	332	331	-1	-0.3%	2003	2,931	2,940	9	0.3%
2004	307	306	-1	-0.3%	2004	2,712	2,742	30	1.1%
2005	286	286	0		2005	2,594	2,652	58	2.2%
2006	314	314	0		2006	2,594	2,625	31	1.2%
2007	282	281	-1	-0.4%	2007	2,316	2,382	66	2.8%
2008	272	270	-2	-0.7%	2008	2,535	2,568	33	1.3%
2009	216	216	0		2009	2,269	2,269	0	
2010	208	208	0		2010	1,960	1,964	4	0.2%
2011	186	186	0		2011	1,873	1,875	2	0.1%
10YA	271	270	-0.4	-0.1%	10YA	2,499	2,523	24.2	1.0%
5YA	233	232	-0.6	-0.3%	5YA	2,191	2,212	21.0	1.0%
3YA	203	203	0.0		3YA	2,034	2,036	2.0	0.1%
Slight					All Severities				
Year	KRRC (June)	RRCS (October)	Difference (no.)	Difference (% of June)	Year	KRRC (June)	RRCS (October)	Difference (no.)	Difference (% of June)
2001	16,137	16,141	4	0.0%	2001	19,889	19,894	5	0.0%
2002	15,730	15,730	0		2002	19,238	19,248	10	0.1%
2003	15,406	15,435	29	0.2%	2003	18,669	18,706	37	0.2%
2004	15,227	15,357	130	0.9%	2004	18,246	18,405	159	0.9%
2005	14,912	14,883	-29	-0.2%	2005	17,792	17,821	29	0.2%
2006	14,169	14,328	159	1.1%	2006	17,077	17,267	190	1.1%
2007	13,465	13,550	85	0.6%	2007	16,063	16,213	150	0.9%
2008	12,756	12,738	-18	-0.1%	2008	15,563	15,576	13	0.1%
2009	12,528	12,545	17	0.1%	2009	15,013	15,030	17	0.1%
2010	11,156	11,162	6	0.1%	2010	13,324	13,334	10	0.1%
2011	10,704	10,709	5	0.0%	2011	12,763	12,770	7	0.1%
10YA	13,605	13,644	38.4	0.3%	10YA	16,375	16,437	62.2	0.4%
5YA	12,122	12,141	19.0	0.2%	5YA	14,545	14,585	39.4	0.3%
3YA	11,463	11,472	9.3	0.1%	3YA	13,700	13,711	11.3	0.1%

10.3 The definition of “severity” used in the Road Accident statistics

The classification of the severity of an accident (as “fatal”, “serious” or “slight”) is determined by the severity of the injury to the most severely injured casualty. The police usually record this information soon after the accident occurs. However, if further information becomes available which would alter the classification (for example, if a person dies within 30 days of the accident, as a result of the injuries sustained in the accident) the police change the initial classification of the severity.

For the purposes of the Road Accidents statistical returns:

- a **fatal injury** is one which causes death less than 30 days after the accident;
- a **fatal accident** is an accident in which at least one person is fatally injured;
- a **serious injury** is one which does *not* cause death less than 30 days after the accident, *and* which is in one (or more) of the following categories:
 - (a) an injury for which a person is detained in hospital as an in-patient
 - or (b) any of the following injuries (whether or not the person is detained in hospital): fractures, concussion, internal injuries, crushings, severe cuts and lacerations, severe general shock requiring treatment
 - or (c) any injury causing death 30 or more days after the accident;
- a **serious accident** is one in which at least one person is seriously injured, but no-one suffers a fatal injury;
- a **“slight” injury** is any injury which is neither “fatal” nor “serious” - for example, a sprain, bruise or cut which is not judged to be severe, or slight shock requiring roadside attention;
- a **“slight” accident** is one in which at least one person suffers “slight” injuries, but no-one is seriously injured, or fatally injured.

Over the years, improvements in vehicle design, and the provision and use of additional safety features, together with changes in the law (e.g. on the fitting and wearing of seat belts), will all have helped to reduce the severity of the injuries suffered in some accidents. Road safety measures should also have reduced the levels of injuries sustained. For example, if traffic calming schemes reduce average speeds, people may suffer only “slight injury” in collisions that previously would have taken place at higher speeds and so might previously have resulted in “serious injury”. However, it is also possible that some of the changes shown in the statistics of “serious injuries” and “slight injuries” may be due to changes in administrative practices, which may have altered the proportion of accidents categorised as “serious”. For example, the distinction between “serious” and “slight” injuries could be affected by factors such as changes in hospitals’ admission policies. All else being equal, the number of “serious injury” cases would rise, and the number of “slight injury” cases would fall, if it became standard procedure for a hospital to keep in overnight, for precautionary reasons, casualties with a particular type of injury. The increase in the number of “serious” injury accidents in 1994 was partly attributed to a change in the health boards’ policies in admitting more child casualties for overnight observation, which in turn changed the classification of many injuries from “slight” to “serious”. The number of child casualties recorded as having serious injuries in 1994 was 35 per cent higher than in the previous year. There could also be changes in hospitals’ procedures that would reduce the numbers of “serious injury” cases. In addition, there is anecdotal evidence that changes in procedures for assigning severity codes may affect the categorisation of injuries. For example, different severity codes might be assigned by a police officer who was at the scene of an accident and by a clerk who bases the code on a police officer’s written description of the accident.

10.4 Some other definitions

Built-up roads: accidents which occur on “built-up” roads are those which occur on roads which have speed limits of up to 40 miles per hour (*ignoring* temporary speed limits on roads for which the normal speed limit is over 40mph).

Children: people under 16 years old.

Pedestrians: includes people riding toy cycles on the footway, people pushing bicycles, occupants of prams or wheelchairs, and people who alight safely from vehicles and are subsequently injured.

10.5 Scottish specific casualty reduction

Scotland's Road Safety Framework was launched in June 2009. It set out the vision for road safety in Scotland, the main priorities and issues and included Scotland-specific targets and milestones which will be adopted from 2010. These targets and milestones are:

Target	2015 milestone % reduction	2020 target % reduction
People killed	30%	40%
People seriously injured	43%	55%
Children (aged < 16) killed *	35%	50%
Children (aged < 16) seriously injured	50%	65%

* As numbers are small, a 3 year average is included in the table to smooth out large fluctuations in the numbers.

Each reduction target will be assessed against the 2004/08 average. In addition to the targets a 10 per cent reduction target in the slight casualty rate will continue to be adopted.

The 4 main targets differ to previous targets in that deaths have been separated out from serious injuries as, in recent years, trends have been different - serious injuries falling steadily but deaths declining at a lower rate. These targets will be discussed more in future publications.

10.6 The calculation of the “indicative lines” shown in the graphs

One way of assessing progress towards the targets is to compare actual casualty numbers in each year with an indicative line that starts at the baseline figure in 2006 and falls, by a constant percentage reduction in each subsequent year, to the target for 2010. This is the approach adopted by the GB Road Safety Advisory Panel. The indicative line starts at the baseline figure in 2006 as that is the middle year of the baseline period. Other approaches could have been used: there are many ways of producing lines that indicate how casualty numbers might fall fairly steadily to the targets for 2020.

The method adopted to produce the indicative target lines shown in Figure 4 involves a constant percentage reduction in each year after 2006 to the 2015 milestone, then a constant percentage reduction between 2015 and 2020. The resulting indicative target lines represent the percentages of the baseline averages which are shown in the table below. They are not straight lines, because of the compounding over the years effect of constant annual percentage reductions (to two decimal places, the falls are: 3.89 per cent p.a. for killed to meet the 2015 milestone and 3.02 between 2015 and 2020. For seriously injured casualties the falls are 6.06 per cent and 4.61 per cent. For child killed 4.67 per cent and 4.37 or seriously injured 7.41 per cent and 6.90.

	Killed		Serious		Child killed		Child serious	
	% baseline (milestone from 2015)	% reduction from baseline (milestone)	% baseline (milestone from 2015)	% reduction from baseline (milestone)	% baseline (milestone from 2015)	% reduction from baseline (milestone)	% baseline (milestone from 2015)	% reduction from baseline (milestone)
2006	100%		100%		100%		100%	
2007	96.1%	3.9%	93.9%	6.1%	95.3%	4.7%	92.6%	7.4%
2008	92.4%	7.6%	88.3%	11.7%	90.9%	9.1%	85.7%	14.3%
2009	88.8%	11.2%	82.9%	17.1%	86.6%	13.4%	79.4%	20.6%
2010	85.3%	14.7%	77.9%	22.1%	82.6%	17.4%	73.5%	26.5%
2011	82.0%	18.0%	73.2%	26.8%	78.7%	21.3%	68.0%	32.0%
2012	78.8%	21.2%	68.7%	31.3%	75.0%	25.0%	63.0%	37.0%
2013	75.8%	24.2%	64.6%	35.4%	71.5%	28.5%	58.3%	41.7%
2014	72.8%	27.2%	60.7%	39.3%	68.2%	31.8%	54.0%	46.0%
2015	70.0%	30.0%	57.0%	43.0%	65.0%	35.0%	50.0%	50.0%
2015	100%		100%		100%		100%	
2016	97.0%	3.0%	95.4%	4.6%	95.6%	4.4%	93.1%	6.9%
2017	94.1%	5.9%	91.0%	9.0%	91.5%	8.5%	86.7%	13.3%
2018	91.2%	8.8%	86.8%	13.2%	87.5%	12.5%	80.7%	19.3%
2019	88.5%	11.5%	82.8%	17.2%	83.7%	16.3%	75.1%	24.9%
2020	85.8%	14.2%	79.0%	21.0%	80.0%	20.0%	69.9%	30.1%

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