

**ASSOCIATION OF GREATER MANCHESTER AUTHORITIES**

**GREATER MANCHESTER TRANSPORTATION UNIT**

# **REPORTED ROAD CASUALTY STATISTICS GREATER MANCHESTER 2009**

## **COUNTYWIDE TABULATIONS**

This is one of two reports produced to accompany the Reported Road Casualty Statistics Greater Manchester 2009 (GMTU Report 1599) report. All commentary is included in the main report. This accompanying report is only available in electronic format.

This report presents countywide tabulations of reported road traffic accident, casualty and vehicle statistics in Greater Manchester.

Sections 1 to 3 provide general reported casualty, accident and vehicle data in detail respectively for Greater Manchester as a whole, whilst Sections 4 and 5 focus the attention on the national contributory factors. In particular, Section 4 shows car drivers involved in injury accidents and speed-related accidents, whereas Section 5 gives tabulations of the distribution of contributory factors by casualty type.

No commentary is provided in this accompanying report, but it is worth noting that in 2009 encouraging progress has been made towards reaching the national targets of a 40% reduction in reported Killed and Seriously Injured (KSI) casualties and a 50% reduction in reported child KSI casualties by 2010. In Greater Manchester as a whole, the total number of reported KSI casualties fell by nearly 6% between 2008 and 2009. This is 38% below the base (the average of 1994 to 1998) and a further 3% reduction is required to meet the 2010 KSI target. Reported child KSI casualties fell by more than 7% between 2008 and 2009 and have now met the set 2010 child KSI target for the third consecutive year.



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# **1. Casualty Statistics**

## Casualty Trends

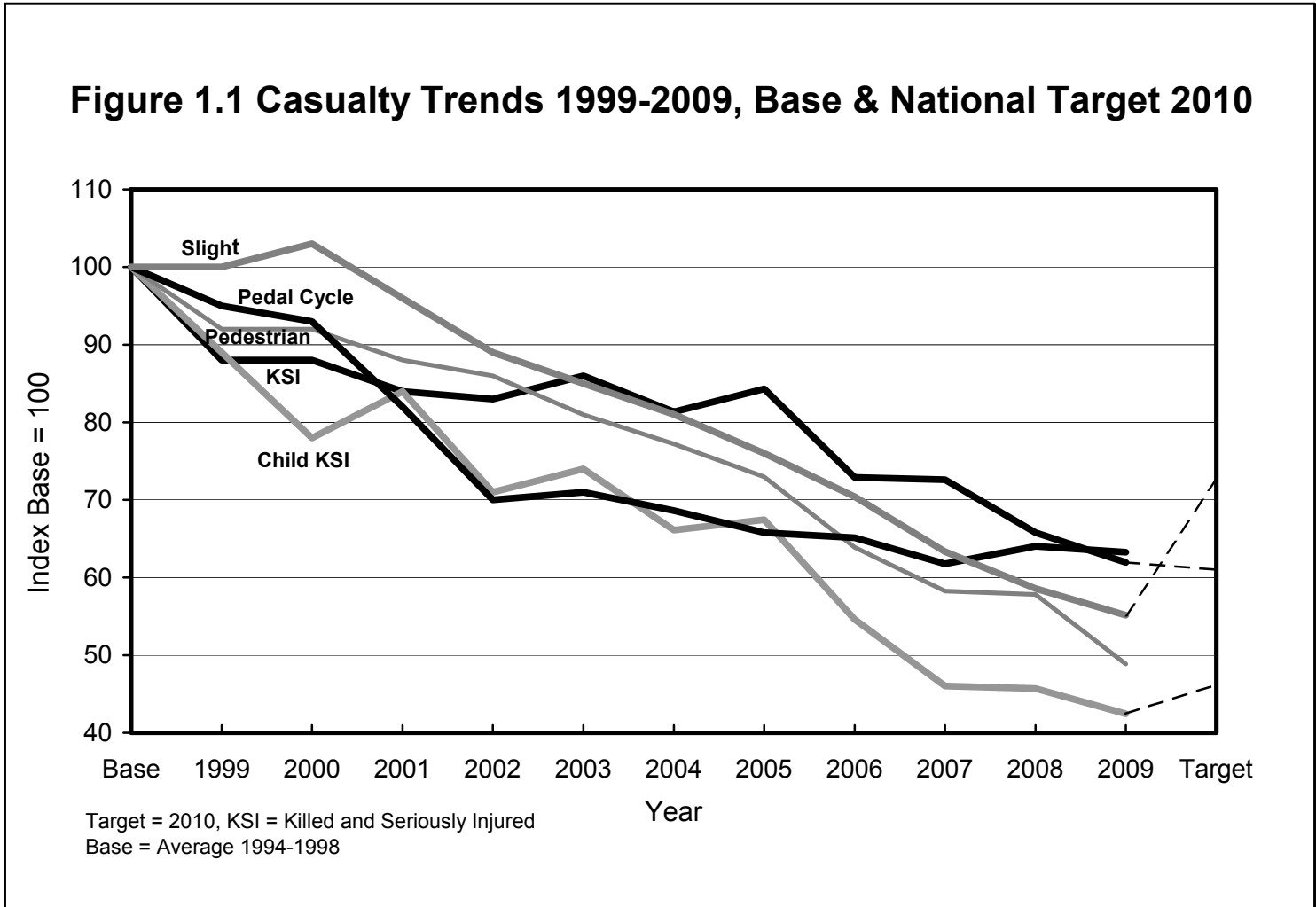
	<b>Base (Ave. 1994-1998)</b>	<b>Average 1999-2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>Target (2010)</b>
All KSI Casualties	1281	1097	1042	1080	934	930	843	794	769
Index	100	86	81	84	73	73	66	62	40*
Child KSI Casualties	304	240	201	205	166	140	139	129	152
Index	100	79	66	67	55	46	46	42	50**
Pedestrian Casualties	2939	2576	2269	2144	1878	1712	1699	1436	
Index	100	88	77	73	64	58	58	49	
Pedal Cycle Casualties	1188	977	815	782	774	734	761	752	
Index	100	82	69	66	65	62	64	63	
Slight Casualties	15426	14574	12501	11725	10861	9772	9038	8509	13884
Index	100	94	81	76	70	63	59	55	90***
Slight Casualty Rates	95.70	82.81	66.81	63.62	58.78	52.24	48.31	46.01	86.13
Index	100	87	70	66	61	55	50	48	90***

**Notes:** \* - A 40% reduction in all KSIs for all Roads (National Target)  
 \*\* - A 50% reduction in Child KSIs for all Roads (National Target)  
 \*\*\* - A 10% reduction in Slight casualty rates (Rate per 100m Veh kms - DfT website, revised June 2009).  
 Casualty rates: rate per 100 million vehicle kilometres (the estimated traffic flows used in this calculation are produced by the DfT, but are not considered robust enough to be considered national statistics. Whereas they may be of use for monitoring trends within an area, they should not be used for comparisons between areas.)

## KSI Casualties

<b>Casualty Type</b>	<b>Average 1994-1998</b>	<b>Average 1999-2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
<b>Pedestrians:</b>								
Under 16 years	231	180	151	149	120	109	112	100
16-29 years	100	85	102	105	86	84	92	60
30-59 years	127	97	101	116	97	86	80	70
60-74 years	63	47	24	32	34	30	34	31
Over 74 years	66	51	37	32	29	41	28	30
<b>Total Pedestrians</b>	<b>587</b>	<b>460</b>	<b>415</b>	<b>434</b>	<b>366</b>	<b>350</b>	<b>346</b>	<b>291</b>
<b>Pedal Cycle (R&amp;P):</b>								
Under 16 years	40	32	27	26	21	26	15	17
16-19 years	10	8	5	9	9	7	5	7
Over 20 years	58	53	46	51	60	52	72	61
<b>Total Pedal Cycle (R&amp;P)</b>	<b>108</b>	<b>93</b>	<b>78</b>	<b>86</b>	<b>90</b>	<b>85</b>	<b>92</b>	<b>85</b>
<b>TWPV (R&amp;P):</b>								
Under 20 years	20	36	51	57	39	40	38	34
20-29 years	46	45	47	41	47	50	40	43
Over 29 years	62	79	79	93	86	84	89	71
<b>Total TWPV (R&amp;P)</b>	<b>127</b>	<b>160</b>	<b>177</b>	<b>191</b>	<b>172</b>	<b>174</b>	<b>167</b>	<b>148</b>
<b>Car Drivers:</b>								
Under 20 years	29	32	22	26	25	19	15	14
20-29 years	72	58	71	65	62	57	43	56
Over 29 years	127	108	102	102	69	106	64	73
<b>Total Car Drivers</b>	<b>229</b>	<b>198</b>	<b>195</b>	<b>193</b>	<b>156</b>	<b>182</b>	<b>122</b>	<b>143</b>
<b>Car Passengers</b>								
Under 20 years	67	57	49	50	49	32	34	40
20-29 years	45	44	54	39	43	40	26	39
Over 29 years	61	46	53	55	27	38	34	27
<b>Total Car Passengers</b>	<b>173</b>	<b>147</b>	<b>156</b>	<b>144</b>	<b>119</b>	<b>110</b>	<b>94</b>	<b>106</b>
<b>Others</b>	<b>57</b>	<b>39</b>	<b>21</b>	<b>32</b>	<b>31</b>	<b>29</b>	<b>22</b>	<b>21</b>
<b>Total KSI</b>	<b>1281</b>	<b>1097</b>	<b>1042</b>	<b>1080</b>	<b>934</b>	<b>930</b>	<b>843</b>	<b>794</b>

**Notes:** R&P = Rider and Pillion, KSI = Killed and Seriously Injured,  
 Car = From 1999 this definition was revised



**All Casualties**

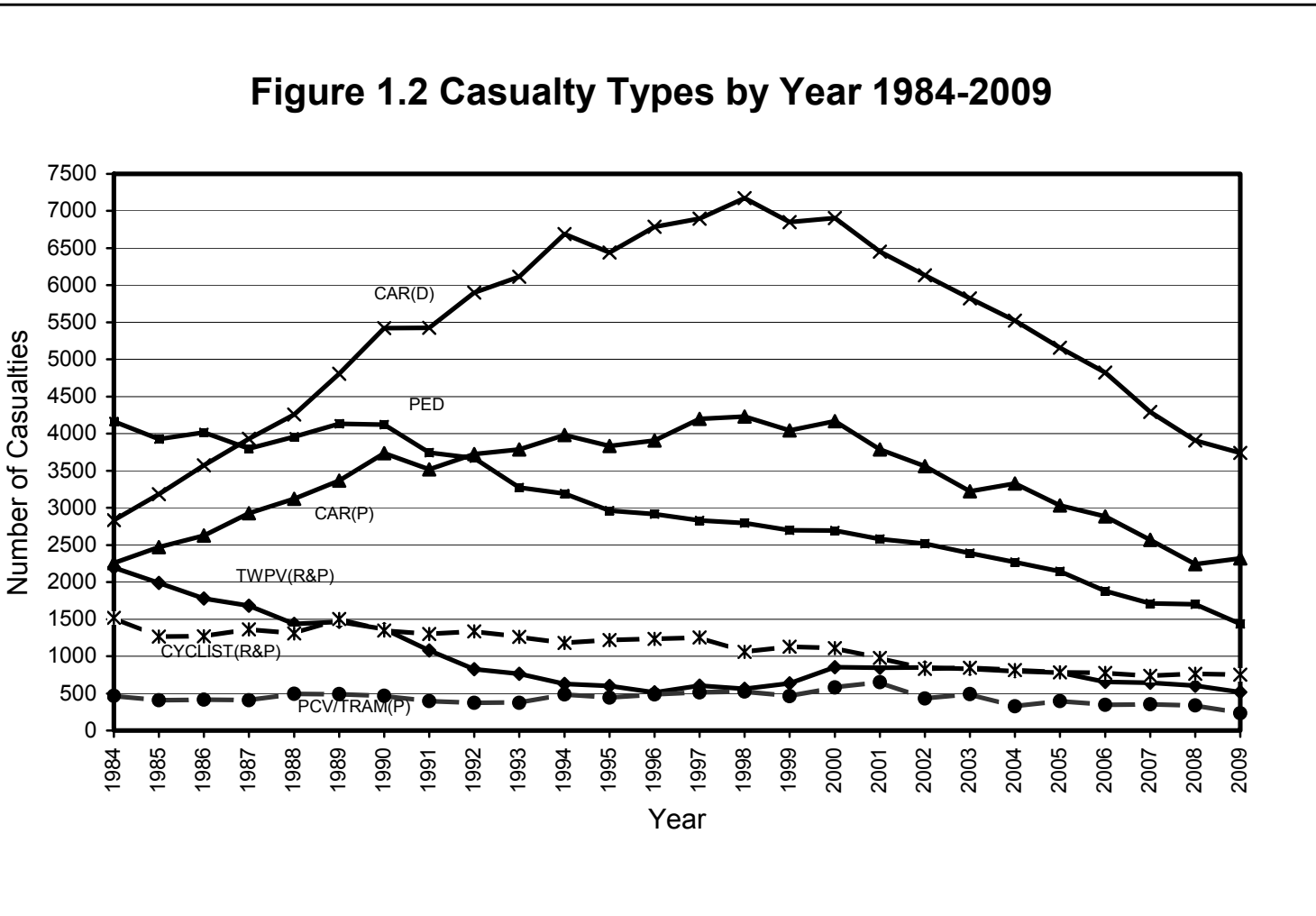
<b>Casualty</b>	<b>Fatal</b>	<b>Serious</b>	<b>Slight</b>	<b>Total</b>	<b>KSI</b>	<b>Severity Index</b>
TWPV Rider	11	129	351	491	140	0.29
TWPV Pillion	0	8	19	27	8	0.30
Car Driver	7	136	3598	3741	143	0.04
Car Passenger	15	91	2212	2318	106	0.05
Pedestrian	36	255	1145	1436	291	0.20
Cyclists (R&P)	2	83	667	752	85	0.11
PCV Passenger	1	3	228	232	4	0.02
Tram (D&P)	0	0	0	0	0	0.00
Goods (D&P)	0	8	187	195	8	0.04
Other	1	8	102	111	9	0.08
<b>Total</b>	<b>73</b>	<b>721</b>	<b>8509</b>	<b>9303</b>	<b>794</b>	<b>0.09</b>

**Notes:** R&P = Rider and Pillion  
D&P = Driver and Passenger  
KSI = Killed and Seriously Injured  
Severity Index = KSI/Total Casualties

<b>Casualty</b>	<b>Average 1984-88</b>	<b>Average 1989-93</b>	<b>Average 1994-98</b>	<b>Average 1999-2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
TWPV Rider	1643	1014	536	749	741	737	602	619	568	491
TWPV Pillion	172	84	46	53	55	43	52	23	36	27
Car Driver	3555	5534	6798	6433	5523	5157	4822	4291	3909	3741
Car Passenger	2682	3627	4029	3757	3327	3032	2883	2568	2243	2318
Pedestrian	3973	3788	2939	2576	2269	2144	1879	1712	1699	1436
Cyclists (R&P)	1344	1349	1188	977	815	782	774	734	761	752
PCV/Tram (P)	439	4200	491	524	328	398	346	354	337	232
Other	545	662	681	602	485	512	437	401	328	306
<b>Total</b>	<b>14353</b>	<b>16479</b>	<b>16708</b>	<b>15671</b>	<b>13543</b>	<b>12805</b>	<b>11795</b>	<b>10702</b>	<b>9881</b>	<b>9303</b>

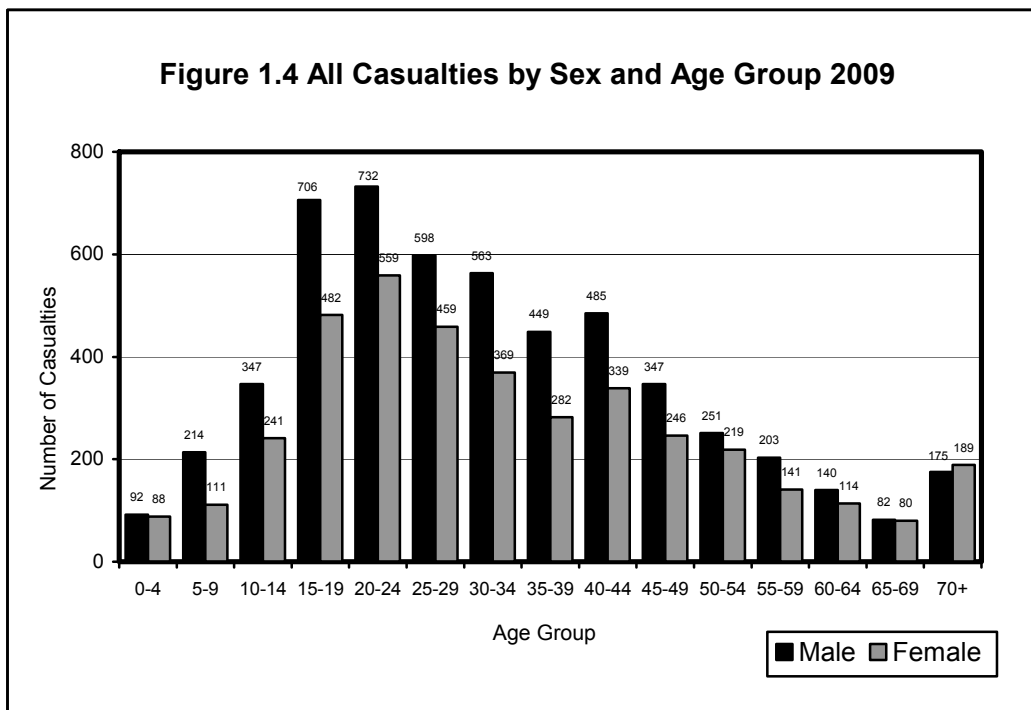
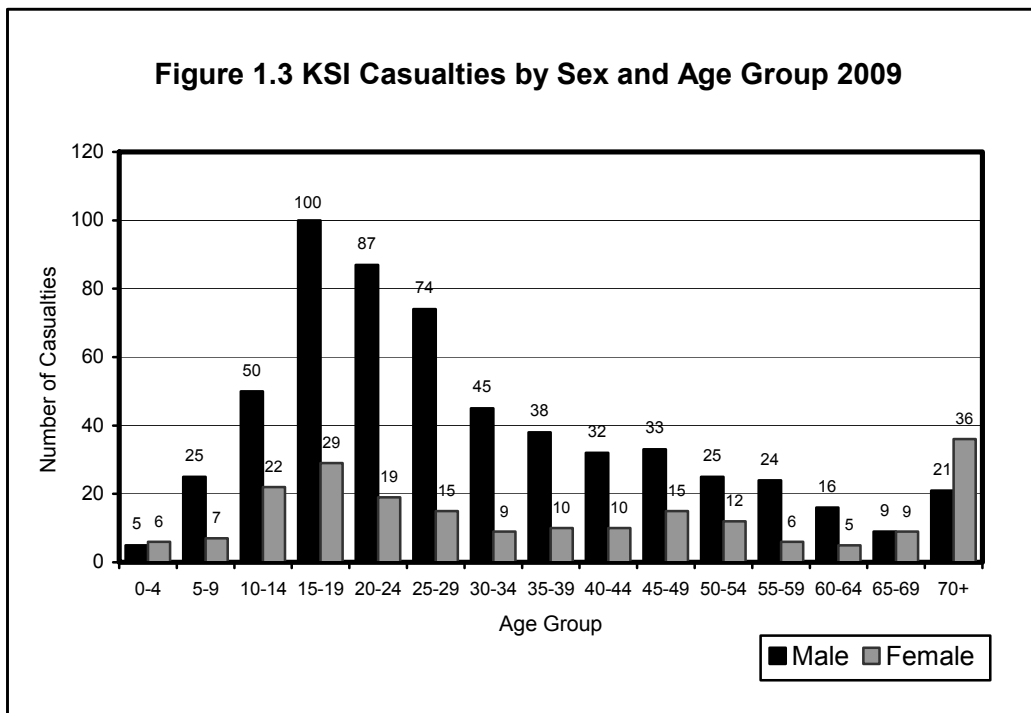
**Notes:** R&P = Rider and Pillion  
P = Passenger  
Car = From 1999 this definition was revised to exclude invalid tricycles and motor caravans

Figure 1.2 Casualty Types by Year 1984-2009



<b>Table 1.5 Casualty Types by Sex and Age Group 2009</b>																
<b>Casualty Type</b>	<b>0 to 4</b>	<b>5 to 9</b>	<b>10 to 14</b>	<b>15 to 19</b>	<b>20 to 24</b>	<b>25 to 29</b>	<b>30 to 34</b>	<b>35 to 39</b>	<b>40 to 44</b>	<b>45 to 49</b>	<b>50 to 54</b>	<b>55 to 59</b>	<b>60 to 64</b>	<b>65 to 69</b>	<b>70+</b>	<b>Total</b>
<b>MALE</b>																
TWPV Rider	0	1	1	104	75	45	45	45	50	41	24	18	9	4	2	464
TWPV Pillion	0	0	3	6	3	1	0	2	0	1	0	0	0	0	0	16
Car Driver	0	0	0	184	293	260	249	215	201	172	134	99	80	49	82	2018
Car Passenger	46	56	78	216	194	123	111	50	61	30	18	13	16	6	18	1036
Pedestrian	37	121	151	114	79	55	61	46	53	28	29	33	18	11	54	890
Pedal Cycle (R&P)	5	32	91	65	60	80	57	59	77	40	26	22	6	6	6	632
PCV/Tram (P)	3	1	19	6	8	2	5	3	6	2	2	0	4	1	7	69
Other	1	3	4	11	20	32	35	29	37	33	18	18	7	5	6	259
<b>Total Male</b>	<b>92</b>	<b>214</b>	<b>347</b>	<b>706</b>	<b>732</b>	<b>598</b>	<b>563</b>	<b>449</b>	<b>485</b>	<b>347</b>	<b>251</b>	<b>203</b>	<b>140</b>	<b>82</b>	<b>175</b>	<b>5384</b>
<b>FEMALE</b>																
TWPV Rider	0	0	0	7	4	3	2	1	4	2	3	1	0	0	0	27
TWPV Pillion	0	0	0	3	2	0	0	2	2	1	1	0	0	0	0	11
Car Driver	0	0	0	128	284	265	206	164	208	140	106	77	54	33	58	1723
Car Passenger	58	65	92	242	189	129	91	64	80	64	63	37	33	26	49	1282
Pedestrian	30	31	112	71	47	35	35	24	19	19	22	19	15	10	57	546
Pedal Cycle (R&P)	0	8	10	8	18	18	16	12	5	10	7	3	2	2	1	120
PCV/Tram (P)	0	4	27	20	9	5	13	6	19	6	11	3	9	8	23	163
Other	0	3	0	3	6	4	6	9	2	4	6	1	1	1	1	47
<b>Total Female</b>	<b>88</b>	<b>111</b>	<b>241</b>	<b>482</b>	<b>559</b>	<b>459</b>	<b>369</b>	<b>282</b>	<b>339</b>	<b>246</b>	<b>219</b>	<b>141</b>	<b>114</b>	<b>80</b>	<b>189</b>	<b>3919</b>
<b>TOTAL</b>	<b>180</b>	<b>325</b>	<b>588</b>	<b>1188</b>	<b>1291</b>	<b>1057</b>	<b>932</b>	<b>731</b>	<b>824</b>	<b>593</b>	<b>470</b>	<b>344</b>	<b>254</b>	<b>162</b>	<b>364</b>	<b>9303</b>

**Notes:** R&P = Rider and Pillion  
P = Passenger



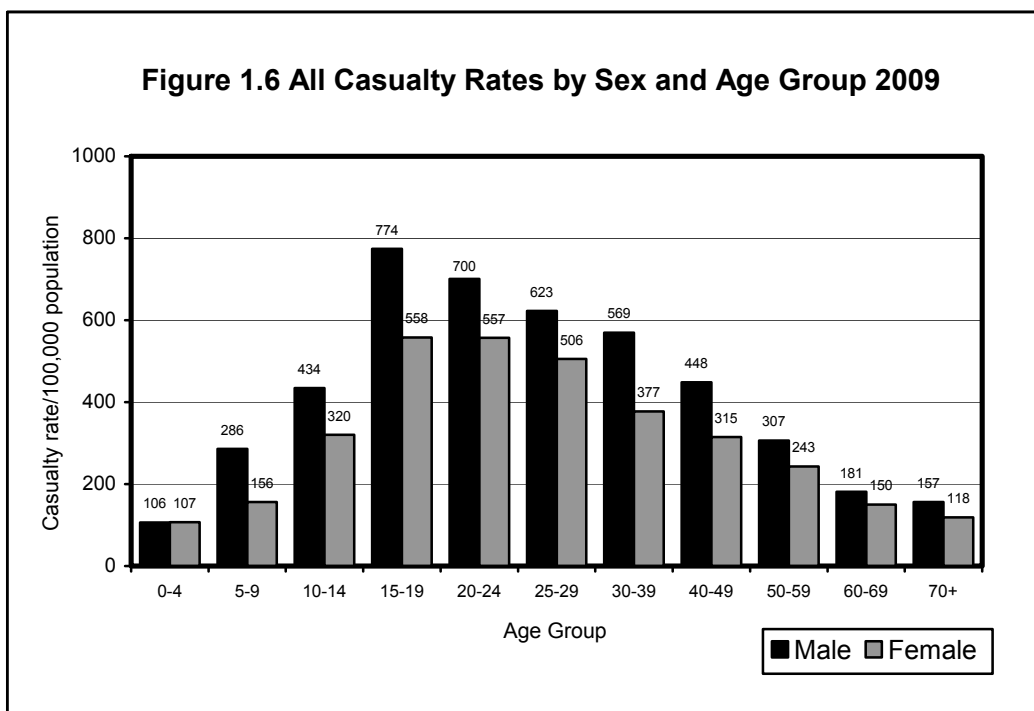
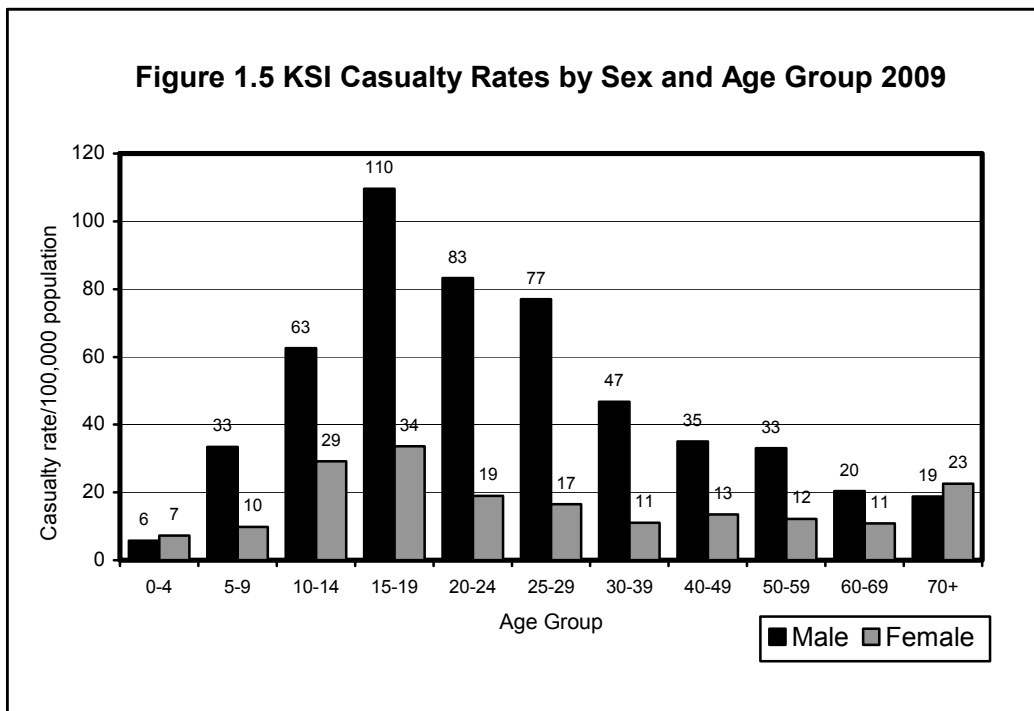
## Casualty Rates

Age Group	Population 000's			Casualties		Casualty Rate Per 100,000 Population	
	Total	Males	Females	Male	Female	Male	Female
under 5	169.0	86.9	82.1	5	6	6	7
5 – 9	145.9	74.8	71.1	25	7	33	10
10 – 14	155.2	79.9	75.3	50	22	63	29
15 – 19	177.6	91.2	86.4	100	29	110	34
20 – 24	204.8	104.5	100.3	87	19	83	19
25 – 29	186.8	96.0	90.8	74	15	77	17
30 – 39	350.4	177.7	172.7	83	19	47	11
40 – 49	371.4	185.6	185.8	65	25	35	13
50 – 59	296.1	148.1	148.0	49	18	33	12
60 – 69	251.6	122.4	129.2	25	14	20	11
70+	271.4	111.8	159.6	21	36	19	23
Total	2580.0	1278.8	1301.2	584	210	46	16

Age Group	Population 000's			Casualties		Casualty Rate Per 100,000 Population	
	Total	Males	Females	Male	Female	Male	Female
under 5	169.0	86.9	82.1	92	88	106	107
5 – 9	145.9	74.8	71.1	214	111	286	156
10 – 14	155.2	79.9	75.3	347	241	434	320
15 – 19	177.6	91.2	86.4	706	482	774	558
20 – 24	204.8	104.5	100.3	732	559	700	557
25 – 29	186.8	96.0	90.8	598	459	623	506
30 – 39	350.4	177.7	172.7	1012	651	569	377
40 – 49	371.4	185.6	185.8	832	585	448	315
50 – 59	296.1	148.1	148.0	454	360	307	243
60 – 69	251.6	122.4	129.2	222	194	181	150
70+	271.4	111.8	159.6	175	189	157	118
Total	2580.0	1278.8	1301.2	5384	3919	421	301

**Note:**

The table uses figures provided by the Office for National Statistics for the mid-year estimate of population for 2008.



## Casualties on A Class Roads

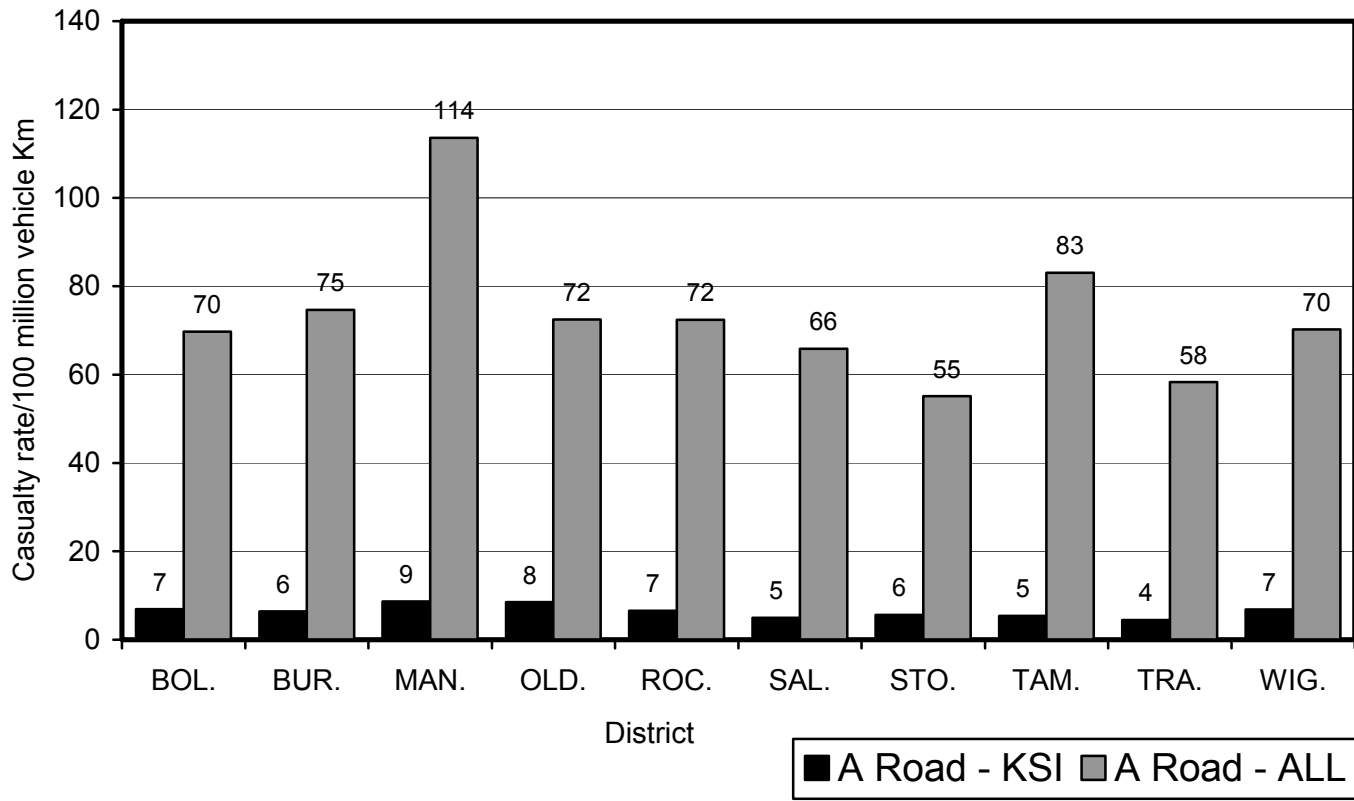
District	Road Length KM	Car KSI Casualties	Casualty Rate Per 100 Million Car Km	Goods KSI Casualties	Casualty Rate Per 100 Million Goods Km	All KSI Casualties	Casualty Rate Per 100 Million Vehicle Km
Bolton	101	19	3	0	0	49	7
Bury	55	2	1	0	0	23	6
Manchester	116	27	3	0	0	86	9
Oldham	98	13	3	1	2	39	8
Rochdale	80	7	2	0	0	29	7
Salford	87	13	2	0	0	34	5
Stockport	84	5	1	0	0	36	6
Tameside	66	7	2	0	0	20	5
Trafford	58	5	1	0	0	19	4
Wigan	117	19	3	0	0	48	7
Greater Manchester	863	117	2	1	0	383	7

District	Road Length KM	Car Casualties	Casualty Rate Per 100 Million Car Km	Goods Casualties	Casualty Rate Per 100 Million Goods Km	All Casualties	Casualty Rate Per 100 Million Vehicle Km
Bolton	101	336	55	22	24	494	70
Bury	55	180	58	3	8	268	75
Manchester	116	734	85	32	28	1136	114
Oldham	98	237	61	6	10	334	72
Rochdale	80	225	59	1	2	323	72
Salford	87	322	55	6	6	457	66
Stockport	84	219	39	7	9	355	55
Tameside	66	214	69	5	9	309	83
Trafford	58	165	44	7	13	252	58
Wigan	117	338	58	7	7	493	70
Greater Manchester	863	2970	60	96	13	4421	76

### Notes:

1. Casualty rates per 100 million vehicle kilometres are derived from figures quoted in the GMTU Report 1476 'Transport Statistics Greater Manchester 2008'.
2. A roads include A57(M) but exclude the A627(M).

**Figure 1.7 All Casualty Rates on A Roads by District 2009**



## Casualties on B Class Roads

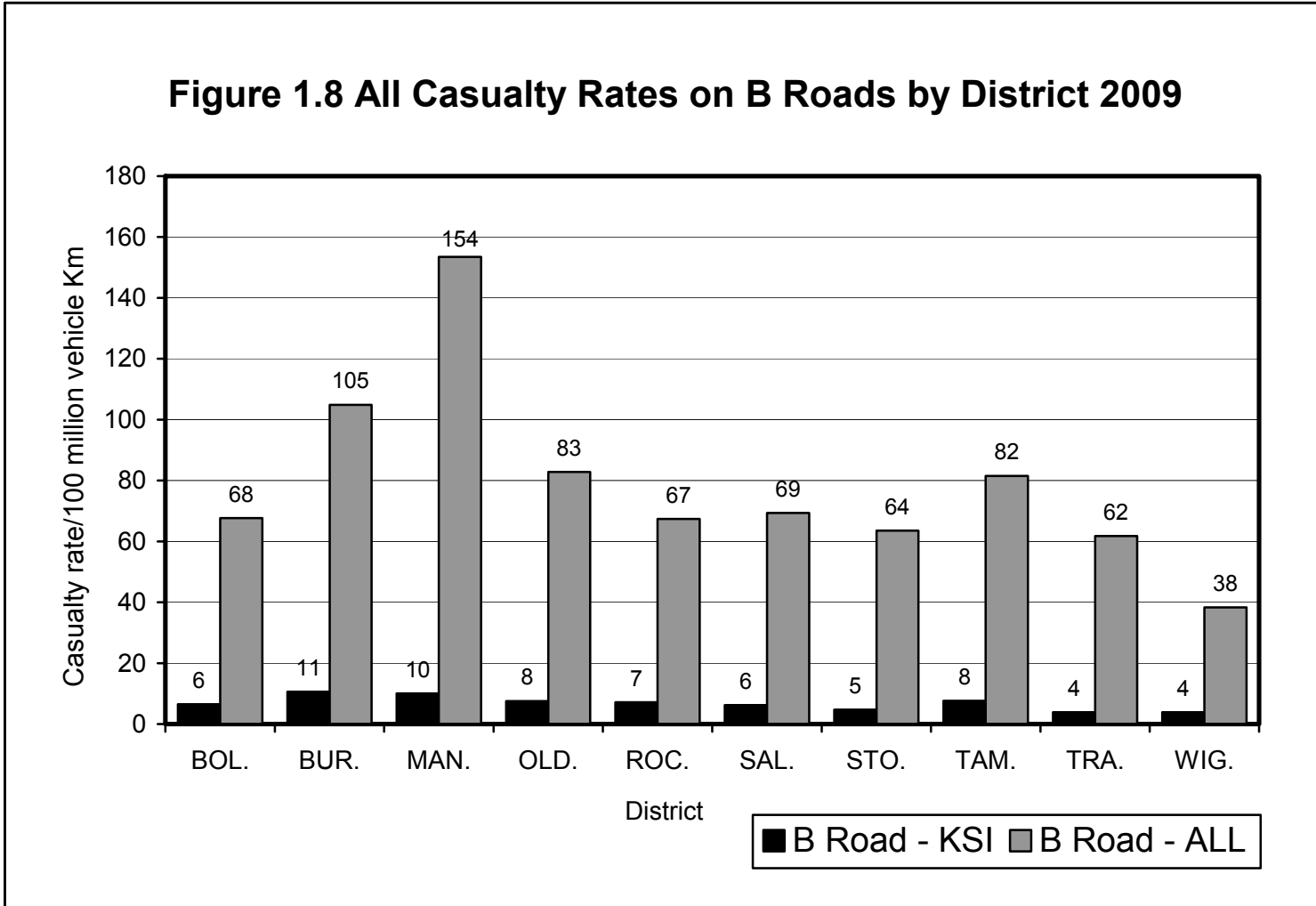
District	Road Length KM	Car KSI Casualties	Casualty Rate Per 100 Million Car Km	Goods KSI Casualties	Casualty Rate Per 100 Million Goods Km	All KSI Casualties	Casualty Rate Per 100 Million Vehicle Km
Bolton	46	4	3	0	0	11	6
Bury	33	3	3	1	9	11	11
Manchester	36	4	3	0	0	17	10
Oldham	30	1	1	0	0	7	8
Rochdale	24	3	3	0	0	7	7
Salford	29	1	1	0	0	7	6
Stockport	36	1	1	0	0	8	5
Tameside	32	5	5	0	0	9	8
Trafford	52	3	2	0	0	8	4
Wigan	56	1	1	0	0	9	4
Greater Manchester	375	26	2	1	1	94	6

District	Road Length KM	Car Casualties	Casualty Rate Per 100 Million Car Km	Goods Casualties	Casualty Rate Per 100 Million Goods Km	All Casualties	Casualty Rate Per 100 Million Vehicle Km
Bolton	46	76	51	4	21	115	68
Bury	33	75	82	1	9	109	105
Manchester	36	154	104	0	0	261	154
Oldham	30	55	69	2	17	77	83
Rochdale	24	43	50	0	0	66	67
Salford	29	42	42	0	0	79	69
Stockport	36	68	46	1	6	108	64
Tameside	32	71	70	1	7	97	82
Trafford	52	78	42	3	15	129	62
Wigan	56	49	25	1	4	89	38
Greater Manchester	375	711	55	13	8	1130	76

### Notes:

1. Casualty rates per 100 million vehicle kilometres are derived from figures quoted in the GMTU Report 1476 'Transport Statistics Greater Manchester 2008'.
2. KSI = Killed and Seriously Injured.

**Figure 1.8 All Casualty Rates on B Roads by District 2009**



## Casualties on Motorways

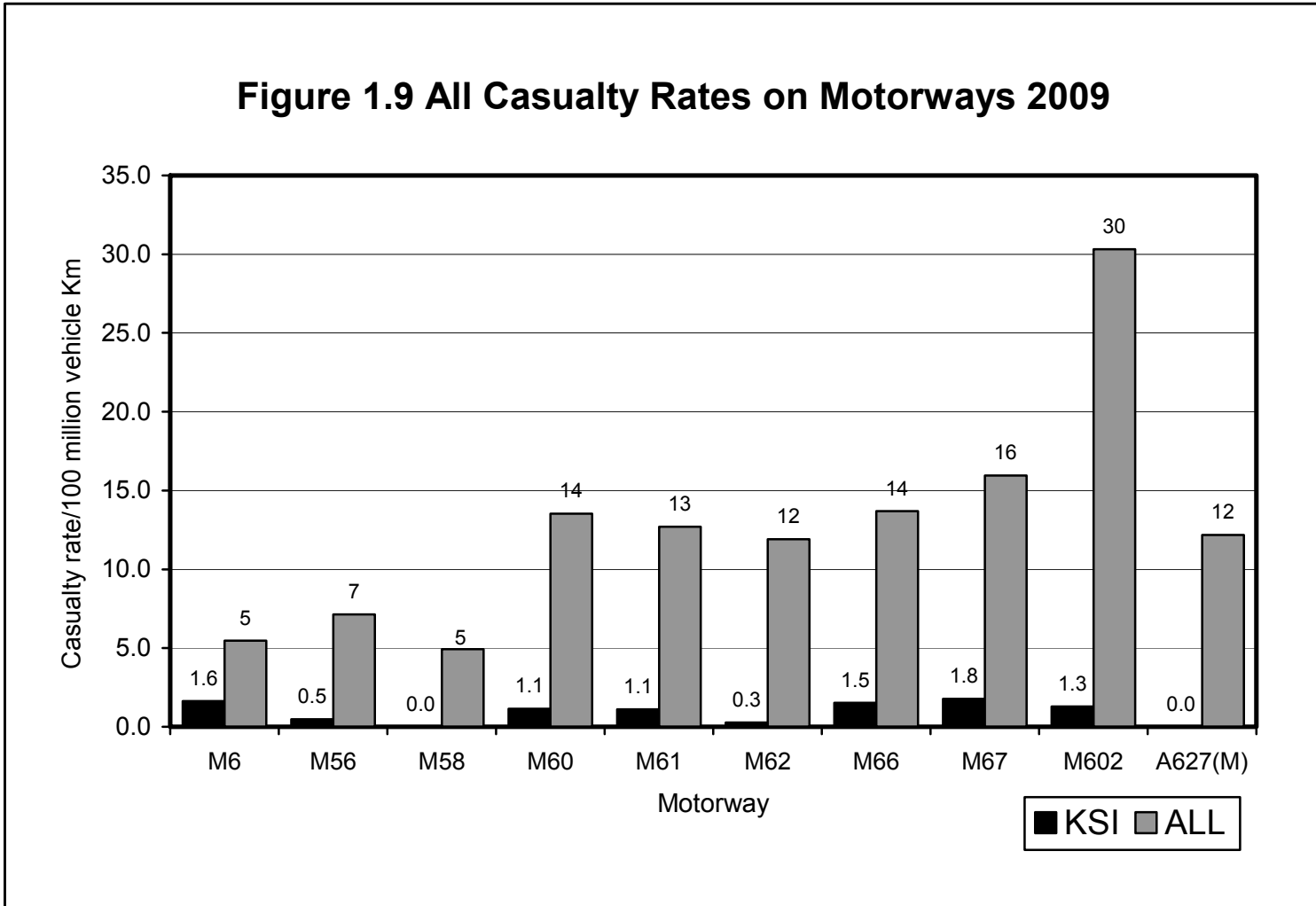
Motorway	Road Length KM	Car KSI Casualties	Casualty Rate Per 100 Million Car Km	Goods KSI Casualties	Casualty Rate Per 100 Million Goods Km	All KSI Casualties	Casualty Rate Per 100 Million Vehicle Km
M6	15	3	0.8	1	0.7	9	1.6
M56	11	1	0.3	1	1.4	2	0.5
M58	1	0	0.0	0	0.0	0	0.0
M60	60	24	1.3	1	0.2	28	1.1
M61	22	6	1.3	0	0.0	7	1.1
M62	27	2	0.3	1	0.3	3	0.3
M66	13	3	1.2	0	0.0	5	1.5
M67	8	2	2.3	0	0.0	2	1.8
M602	7	1	0.8	0	0.0	2	1.3
A627(M)	7	0	0.0	0	0.0	0	0.0
Total	171	42	1.0	4	0.3	58	1.0

Motorway	Road Length KM	Car Casualties	Casualty Rate Per 100 Million Car Km	Goods Casualties	Casualty Rate Per 100 Million Goods Km	All Casualties	Casualty Rate Per 100 Million Vehicle Km
M6	15	23	6	1	1	30	5
M56	11	27	8	2	3	29	7
M58	1	1	7	0	0	1	5
M60	60	314	17	10	2	330	14
M61	22	76	16	1	1	80	13
M62	27	119	15	16	5	136	12
M66	13	38	15	5	6	45	14
M67	8	18	21	0	0	18	16
M602	7	42	34	2	6	47	30
A627(M)	7	7	9	4	17	12	12
Total	171	665	15	41	3	728	12

### Notes:

1. Casualty rates per 100 million vehicle kilometres are derived from figures quoted in the GMTU Report 1476 'Transport Statistics Greater Manchester 2008'.
2. KSI = Killed and Seriously Injured.

**Figure 1.9 All Casualty Rates on Motorways 2009**



## Casualty Rates by Road Class and Casualty Type

Table 1.14a Casualty Rates by Road Class and Casualty Type – Casualty Rate Per Km, 2009																		
District	Road Class	Length (Km)	Pedestrian		Pedal Cycle		TWPV		Car		PCV		Goods		Others		All	
			No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Bolton	M	18.3	1	0.05	0	0.00	0	0.00	48	2.62	0	0.00	1	0.05	0	0.00	50	2.73
	A	101.4	68	0.67	24	0.24	33	0.33	336	3.31	10	0.10	22	0.22	1	0.01	494	4.87
	B	48.5	22	0.45	5	0.10	8	0.16	76	1.57	0	0.00	4	0.08	0	0.00	115	2.37
	C	46.9	21	0.45	10	0.21	8	0.17	134	2.86	16	0.34	1	0.02	1	0.02	191	4.07
	U	761.9	38	0.05	9	0.01	3	0.00	90	0.12	4	0.01	1	0.00	2	0.00	147	0.19
	Total	977.0	150	0.15	48	0.05	52	0.05	684	0.70	30	0.03	29	0.03	4	0.00	997	1.02
Bury	M	20.7	0	0.00	0	0.00	4	0.19	123	5.94	0	0.00	6	0.29	1	0.05	134	6.47
	A	55.1	29	0.53	19	0.34	25	0.45	180	3.27	8	0.15	3	0.05	4	0.07	268	4.86
	B	33.3	18	0.54	4	0.12	6	0.18	75	2.25	0	0.00	1	0.03	5	0.15	109	3.27
	C	37.6	16	0.43	5	0.13	10	0.27	62	1.65	2	0.05	2	0.05	0	0.00	97	2.58
	U	540.7	29	0.05	8	0.01	4	0.01	46	0.09	2	0.00	1	0.00	3	0.01	93	0.17
	Total	687.4	92	0.13	36	0.05	49	0.07	486	0.71	12	0.02	13	0.02	13	0.02	701	1.02
Manchester	M	17.4	0	0.00	0	0.00	0	0.00	51	2.93	0	0.00	2	0.11	0	0.00	53	3.05
	T	2.2	0	0.00	1	0.45	0	0.00	4	1.82	0	0.00	0	0.00	0	0.00	5	2.27
	A	115.4	158	1.37	110	0.95	57	0.49	730	6.33	39	0.34	32	0.28	5	0.04	1131	9.80
	B	37.4	46	1.23	42	1.12	14	0.37	154	4.12	5	0.13	0	0.00	0	0.00	261	6.98
	C	83.9	91	1.08	48	0.57	23	0.27	329	3.92	38	0.45	2	0.02	3	0.04	534	6.36
	U	1111.5	102	0.09	44	0.04	12	0.01	229	0.21	23	0.02	7	0.01	3	0.00	420	0.38
Total	1367.8	397	0.29	245	0.18	106	0.08	1497	1.09	105	0.08	43	0.03	11	0.01	2404	1.76	
Oldham	M	6.6	0	0.00	0	0.00	1	0.15	8	1.21	1	0.15	0	0.00	0	0.00	10	1.52
	T	4.2	6	1.43	0	0.00	1	0.24	13	3.10	0	0.00	0	0.00	0	0.00	20	4.76
	A	94.1	34	0.36	16	0.17	26	0.28	224	2.38	4	0.04	6	0.06	4	0.04	314	3.34
	B	31.0	11	0.35	4	0.13	4	0.13	55	1.77	1	0.03	2	0.06	0	0.00	77	2.48
	C	31.6	20	0.63	6	0.19	7	0.22	91	2.88	6	0.19	7	0.22	2	0.06	139	4.40
	U	661.0	48	0.07	10	0.02	7	0.01	63	0.10	4	0.01	3	0.00	0	0.00	135	0.20
Total	828.5	119	0.14	36	0.04	46	0.06	454	0.55	16	0.02	18	0.02	6	0.01	695	0.84	
Rochdale	M	24.2	0	0.00	0	0.00	0	0.00	91	3.76	0	0.00	18	0.74	0	0.00	109	4.50
	A	79.6	42	0.53	21	0.26	29	0.36	225	2.83	3	0.04	1	0.01	2	0.03	323	4.06
	B	23.7	15	0.63	3	0.13	5	0.21	43	1.81	0	0.00	0	0.00	0	0.00	66	2.78
	C	34.3	23	0.67	3	0.09	1	0.03	58	1.69	1	0.03	0	0.00	2	0.06	88	2.57
	U	623.0	41	0.07	7	0.01	3	0.00	59	0.09	0	0.00	1	0.00	0	0.00	111	0.18
	Total	784.8	121	0.15	34	0.04	38	0.05	476	0.61	4	0.01	20	0.03	4	0.01	697	0.89

**Notes:** Road Lengths published by DfT in June 2009. The A57(M) included in A road and Motorway includes the A627(M). Road lengths used in vehicle kilometres and previous year in 2006 differ slightly especially for Unclassified Roads

District	Road Class	Length (Km)	Pedestrian		Pedal Cycle		TWPV		Car		PCV		Goods		Others		All	
			No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Salford	M	30.1	1	0.03	0	0.00	3	0.10	207	6.88	1	0.03	10	0.33	0	0.00	222	7.38
	A	87.5	46	0.53	45	0.51	24	0.27	322	3.68	11	0.13	6	0.07	3	0.03	457	5.22
	B	30.2	22	0.73	12	0.40	3	0.10	42	1.39	0	0.00	0	0.00	0	0.00	79	2.62
	C	28.6	12	0.42	9	0.31	5	0.17	36	1.26	3	0.10	1	0.03	0	0.00	66	2.31
	U	619.4	25	0.04	8	0.01	6	0.01	56	0.09	0	0.00	0	0.00	0	0.00	95	0.15
	<b>Total</b>	<b>795.8</b>	<b>106</b>	<b>0.13</b>	<b>74</b>	<b>0.09</b>	<b>41</b>	<b>0.05</b>	<b>663</b>	<b>0.83</b>	<b>15</b>	<b>0.02</b>	<b>17</b>	<b>0.02</b>	<b>3</b>	<b>0.00</b>	<b>919</b>	<b>1.15</b>
Stockport	M	12.4	1	0.08	0	0.00	0	0.00	35	2.82	0	0.00	0	0.00	0	0.00	36	2.90
	A	84.1	55	0.65	35	0.42	27	0.32	219	2.60	11	0.13	7	0.08	1	0.01	355	4.22
	B	38.3	19	0.50	11	0.29	7	0.18	68	1.78	2	0.05	1	0.03	0	0.00	108	2.82
	C	43.4	28	0.65	15	0.35	5	0.12	63	1.45	4	0.09	3	0.07	0	0.00	118	2.72
	U	812.0	26	0.03	15	0.02	6	0.01	44	0.05	2	0.00	6	0.01	0	0.00	99	0.12
	<b>Total</b>	<b>990.2</b>	<b>129</b>	<b>0.13</b>	<b>76</b>	<b>0.08</b>	<b>45</b>	<b>0.05</b>	<b>429</b>	<b>0.43</b>	<b>19</b>	<b>0.02</b>	<b>17</b>	<b>0.02</b>	<b>1</b>	<b>0.00</b>	<b>716</b>	<b>0.72</b>
Tameside	M	15.3	0	0.00	0	0.00	1	0.07	40	2.61	0	0.00	2	0.13	0	0.00	43	2.81
	T	3.2	0	0.00	0	0.00	1	0.31	9	2.81	0	0.00	0	0.00	0	0.00	10	3.13
	A	63.1	38	0.60	18	0.29	20	0.32	205	3.25	12	0.19	5	0.08	1	0.02	299	4.74
	B	31.8	14	0.44	7	0.22	3	0.09	71	2.23	0	0.00	1	0.03	1	0.03	97	3.05
	C	37.4	23	0.61	4	0.11	5	0.13	65	1.74	13	0.35	2	0.05	0	0.00	112	2.99
	U	615.9	28	0.05	10	0.02	6	0.01	56	0.09	0	0.00	2	0.00	0	0.00	102	0.17
	<b>Total</b>	<b>766.7</b>	<b>103</b>	<b>0.13</b>	<b>39</b>	<b>0.05</b>	<b>36</b>	<b>0.05</b>	<b>446</b>	<b>0.58</b>	<b>25</b>	<b>0.03</b>	<b>12</b>	<b>0.02</b>	<b>2</b>	<b>0.00</b>	<b>663</b>	<b>0.86</b>
Trafford	M	9.5	1	0.11	0	0.00	0	0.00	38	4.00	0	0.00	1	0.11	0	0.00	40	4.21
	A	58.4	24	0.41	34	0.58	15	0.26	165	2.83	3	0.05	7	0.12	4	0.07	252	4.32
	B	53.0	17	0.32	25	0.47	6	0.11	78	1.47	0	0.00	3	0.06	0	0.00	129	2.43
	C	48.5	23	0.47	19	0.39	9	0.19	68	1.40	4	0.08	0	0.00	1	0.02	124	2.56
	U	636.6	13	0.02	20	0.03	6	0.01	33	0.05	1	0.00	0	0.00	3	0.00	76	0.12
	<b>Total</b>	<b>806.0</b>	<b>78</b>	<b>0.10</b>	<b>98</b>	<b>0.12</b>	<b>36</b>	<b>0.04</b>	<b>382</b>	<b>0.47</b>	<b>8</b>	<b>0.01</b>	<b>11</b>	<b>0.01</b>	<b>8</b>	<b>0.01</b>	<b>621</b>	<b>0.77</b>
Wigan	M	16.7	0	0.00	0	0.00	1	0.06	24	1.44	0	0.00	1	0.06	5	0.30	31	1.86
	A	116.6	59	0.51	28	0.24	32	0.27	338	2.90	23	0.20	7	0.06	6	0.05	493	4.23
	B	56.2	20	0.36	8	0.14	4	0.07	49	0.87	4	0.07	1	0.02	3	0.05	89	1.58
	C	67.7	28	0.41	9	0.13	17	0.25	82	1.21	2	0.03	3	0.04	4	0.06	145	2.14
	U	895.8	34	0.04	21	0.02	15	0.02	49	0.05	9	0.01	3	0.00	1	0.00	132	0.15
	<b>Total</b>	<b>1153.0</b>	<b>141</b>	<b>0.12</b>	<b>66</b>	<b>0.06</b>	<b>69</b>	<b>0.06</b>	<b>542</b>	<b>0.47</b>	<b>38</b>	<b>0.03</b>	<b>15</b>	<b>0.01</b>	<b>19</b>	<b>0.02</b>	<b>890</b>	<b>0.77</b>
Greater Manchester	M	171.2	4	0.02	0	0.00	10	0.06	665	3.88	2	0.01	41	0.24	6	0.04	728	4.25
	T	9.6	6	0.63	1	0.10	2	0.21	26	2.71	0	0.00	0	0.00	0	0.00	35	3.65
	A	855.3	553	0.65	350	0.41	288	0.34	2944	3.44	124	0.14	96	0.11	31	0.04	4386	5.13
	B	383.4	204	0.53	121	0.32	60	0.16	711	1.85	12	0.03	13	0.03	9	0.02	1130	2.95
	C	459.9	285	0.62	128	0.28	90	0.20	988	2.15	89	0.19	21	0.05	13	0.03	1614	3.51
	U	7277.8	384	0.05	152	0.02	68	0.01	725	0.10	45	0.01	24	0.00	12	0.00	1410	0.19
<b>Total</b>	<b>9157.2</b>	<b>1436</b>	<b>0.16</b>	<b>752</b>	<b>0.08</b>	<b>518</b>	<b>0.06</b>	<b>6059</b>	<b>0.66</b>	<b>272</b>	<b>0.03</b>	<b>195</b>	<b>0.02</b>	<b>71</b>	<b>0.01</b>	<b>9303</b>	<b>1.02</b>	

**Notes:** Road Lengths published by DfT in October 2007. The A57(M) included in A road and Motorway includes the A627(M). Road lengths used in vehicle kilometres and previous year in 2006 differ slightly especially for Unclassified Roads



## **2. Accident Statistics**

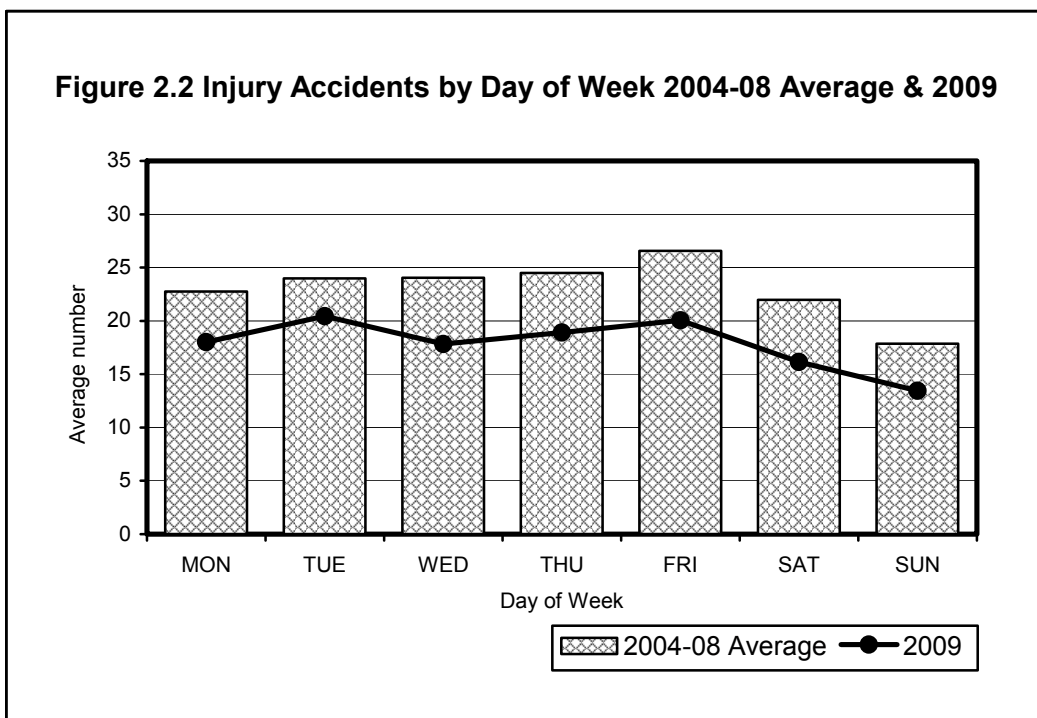
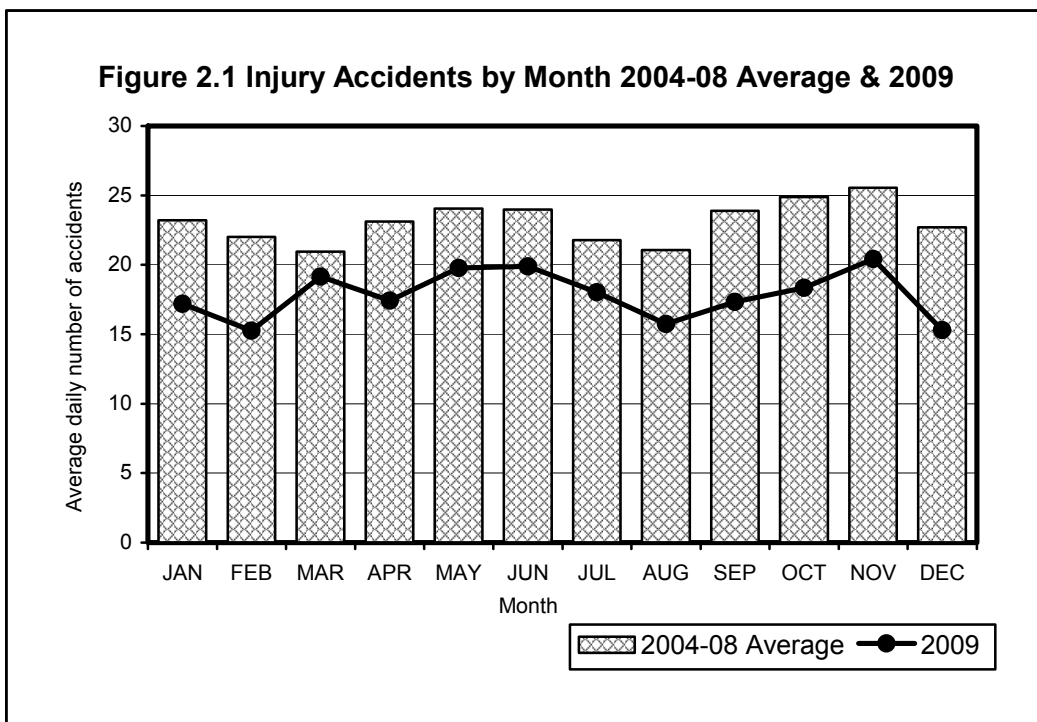
## Accidents by Month

Month	Fatal	Serious	Slight	Total	KSI	Severity Index
January	10	48	475	533	58	0.11
February	2	38	387	427	40	0.09
March	10	55	529	594	65	0.11
April	4	66	453	523	70	0.13
May	8	70	535	613	78	0.13
June	5	62	530	597	67	0.11
July	3	55	501	559	58	0.10
August	7	49	432	488	56	0.11
September	6	51	463	520	57	0.11
October	6	60	503	569	66	0.12
November	2	66	545	613	68	0.11
December	6	44	424	474	50	0.11
<b>Total 2009</b>	<b>69</b>	<b>664</b>	<b>5777</b>	<b>6510</b>	<b>733</b>	<b>0.11</b>
2008	57	740	6349	7146	797	0.11
2007	89	778	6772	7639	867	0.11
2006	86	785	7557	8428	871	0.10
2005	81	894	8247	9222	975	0.11
2004	88	850	8822	9760	938	0.10
2003	114	884	9188	10186	998	0.10
2002	81	896	9568	10545	977	0.09
2001	102	875	10273	11250	977	0.09
2000	99	889	11022	12010	988	0.08
1999	84	929	10671	11684	1013	0.09
<b>Ave 1994-98</b>	<b>106</b>	<b>1045</b>	<b>10925</b>	<b>12076</b>	<b>1151</b>	<b>0.10</b>

**Notes:** KSI = Killed and Seriously Injured

Severity Index = KSI/Total Accidents

Month	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Average
January	17.8	24.8	16.3	18.0	18.8	14.0	11.0	17.2
February	19.0	13.0	18.3	16.8	17.0	13.0	9.8	15.3
March	16.0	23.4	18.8	21.3	24.0	17.3	14.4	19.2
April	18.0	17.0	18.2	20.6	16.0	18.8	12.5	17.4
May	22.0	21.3	17.5	20.8	25.6	15.6	16.2	19.8
June	21.4	25.0	18.5	19.0	19.8	20.8	13.3	19.9
July	20.0	20.0	14.0	20.8	21.2	15.8	14.0	18.0
August	13.4	17.3	17.0	18.3	17.5	14.2	14.0	15.7
September	14.5	19.0	21.8	20.5	18.0	12.0	14.0	17.3
October	18.5	23.3	18.3	17.6	21.4	17.2	12.0	18.4
November	20.8	27.5	16.3	16.5	26.8	20.5	15.8	20.4
December	14.8	14.0	18.8	17.0	13.0	15.8	12.8	15.3
<b>Total 2009</b>	<b>18.0</b>	<b>20.4</b>	<b>17.8</b>	<b>18.9</b>	<b>20.1</b>	<b>16.2</b>	<b>13.4</b>	<b>17.8</b>
2008	19.8	21.4	20.2	21.3	22.3	17.6	14.2	19.5
2007	21.4	21.5	22.8	22.2	23.0	19.2	16.5	20.9
2006	22.2	22.4	23.6	25.6	27.0	22.7	18.1	23.1
2005	24.1	26.3	26.8	25.7	29.5	24.4	20.1	25.3
2004	26.2	28.4	26.9	27.7	31.0	26.0	20.3	26.7
2003	29.6	29.2	27.9	28.9	33.2	25.7	20.8	27.9
2002	29.7	28.8	29.9	30.8	33.7	27.0	22.3	28.9
2001	29.4	31.3	32.8	33.1	35.1	30.4	23.7	30.8
2000	33.5	34.2	33.3	33.1	37.7	32.8	25.4	32.8
1999	32.1	32.9	33.1	35.2	36.5	30.1	24.2	32.0
<b>Ave 1994-98</b>	<b>33.3</b>	<b>33.4</b>	<b>34.4</b>	<b>35.7</b>	<b>38.7</b>	<b>31.8</b>	<b>24.3</b>	<b>33.1</b>

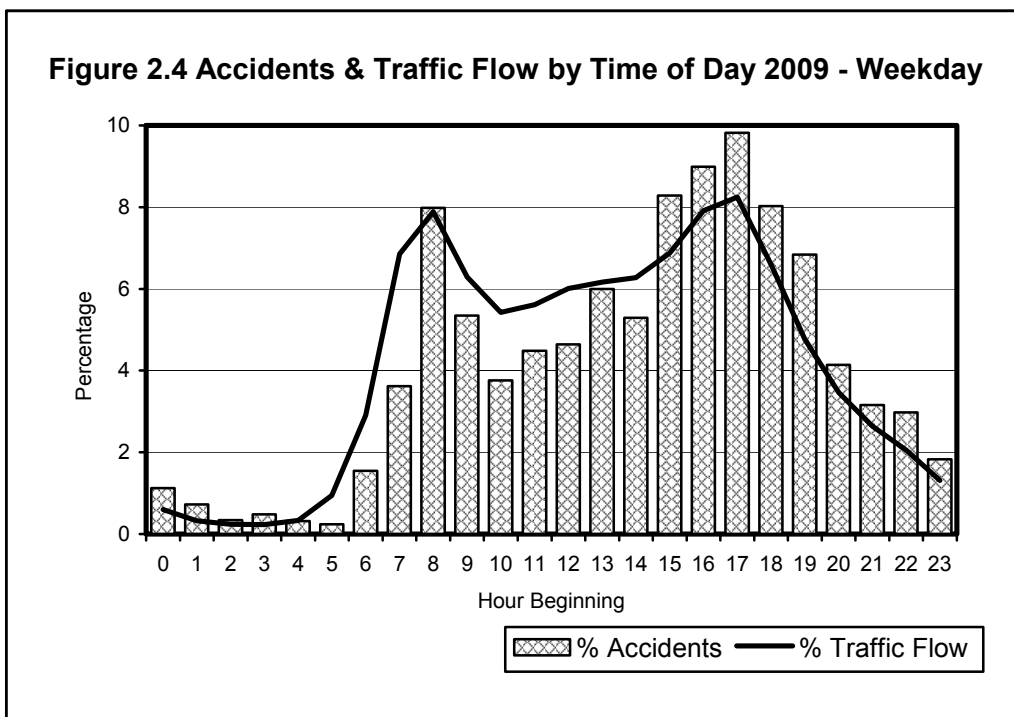
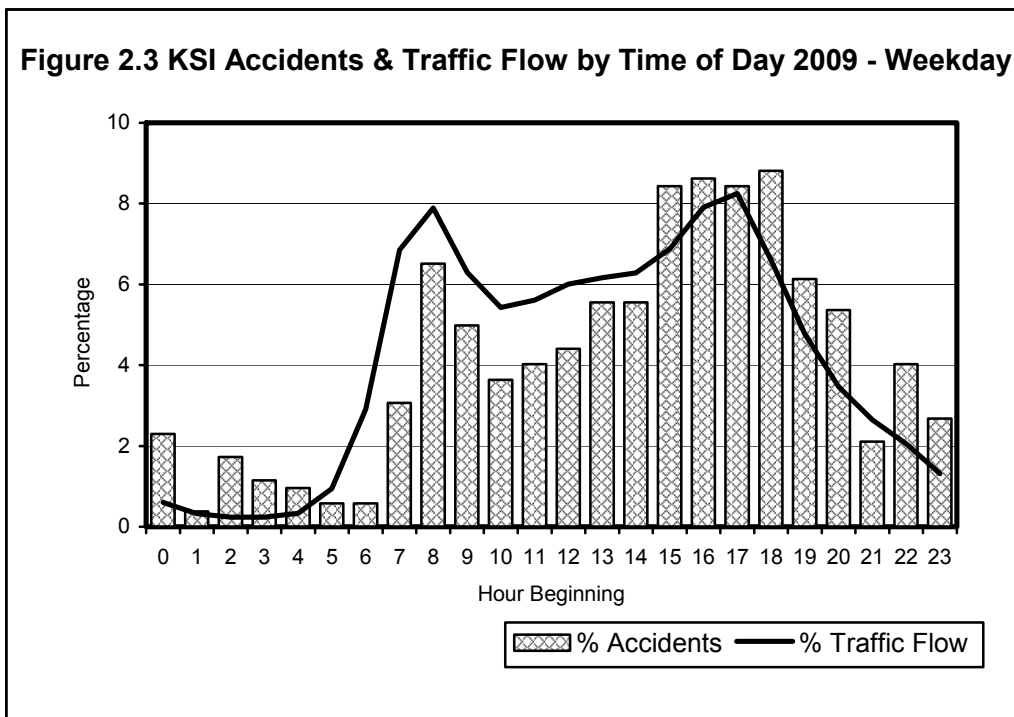


**Accidents by Time of Day**

From Hour	Average 1994-98	Average 1999-2003	2004	2005	2006	2007	2008	2009	% KSI accidents/ % traffic volume
0000	2.4	2.6	2.6	2.8	2.6	2.2	2.2	2.4	3.8
0100	1.8	1.6	2.4	2.6	0.8	0.6	1.2	0.4	1.2
0200	1.2	1.9	1.6	1.8	2.2	1.6	1.2	1.8	7.2
0300	1.0	1.1	2.4	1.2	0.4	0.8	0.6	1.2	4.9
0400	0.7	0.4	0.4	0.2	0.4	1.6	0.6	1.0	2.9
0500	1.1	1.2	1.6	1.2	1.6	0.8	1.4	0.6	0.6
0600	2.2	1.8	1.8	1.4	2.4	1.8	2.4	0.6	0.2
0700	5.7	6.0	5.2	4.0	5.8	4.4	5.2	3.2	0.4
0800	8.5	7.8	9.0	7.6	6.6	8.0	5.4	6.8	0.8
0900	5.6	4.7	3.4	6.0	2.6	5.2	3.6	5.2	0.8
1000	6.2	4.2	3.8	3.4	5.2	3.4	3.8	3.8	0.7
1100	6.4	4.9	5.4	5.6	4.2	4.6	3.4	4.2	0.7
1200	7.2	6.4	3.4	6.8	5.8	4.4	6.2	4.6	0.7
1300	8.5	6.1	3.8	8.2	4.4	6.8	5.0	5.8	0.9
1400	7.6	8.1	5.8	6.6	7.4	5.4	5.8	5.8	0.9
1500	13.0	11.2	10.2	11.0	8.0	10.8	11.0	8.8	1.2
1600	16.2	13.3	13.0	12.0	12.6	7.6	10.4	9.0	1.1
1700	16.6	13.5	12.8	14.4	9.2	10.6	10.6	8.8	1.0
1800	13.3	11.6	10.0	9.0	10.0	13.2	9.8	9.2	1.3
1900	12.2	9.2	8.2	9.0	8.2	9.8	4.8	6.4	1.3
2000	10.2	7.3	8.4	5.8	9.6	5.4	5.6	5.6	1.5
2100	7.5	5.1	6.8	5.4	4.2	4.8	7.0	2.2	0.8
2200	6.4	4.5	4.6	4.4	4.4	5.8	7.4	4.2	2.0
2300	5.8	5.4	4.0	5.8	4.8	3.2	2.8	2.8	2.0
<b>Total</b>	<b>167.4</b>	<b>139.8</b>	<b>130.6</b>	<b>136.2</b>	<b>123.4</b>	<b>122.8</b>	<b>117.4</b>	<b>104.4</b>	

From Hour	Average 1994-98	Average 1999-2003	2004	2005	2006	2007	2008	2009	% accidents/ % traffic volume
0000	16.8	17.1	15.4	15.2	14.4	11.6	11.0	11.2	1.9
0100	9.0	10.5	10.4	8.6	8.4	6.6	7.0	7.2	2.2
0200	8.0	9.2	10.8	8.4	9.6	9.8	5.0	3.4	1.4
0300	3.8	5.4	6.4	4.4	4.4	4.6	4.8	4.8	2.0
0400	3.5	3.4	3.2	4.2	2.6	4.6	3.6	3.2	1.0
0500	6.8	6.7	7.4	5.6	5.6	8.0	5.2	2.4	0.3
0600	17.5	16.8	17.0	13.0	18.4	14.0	15.8	15.4	0.5
0700	77.5	68.6	63.2	55.6	49.4	48.2	41.2	36.0	0.5
0800	147.7	135.7	111.6	107.2	96.8	92.4	95.0	79.4	1.0
0900	93.3	88.5	73.0	71.8	59.4	57.8	58.4	53.2	0.8
1000	78.8	69.0	58.6	60.6	54.6	48.6	47.6	37.4	0.7
1100	86.7	74.9	63.8	64.8	56.8	45.4	49.0	44.6	0.8
1200	97.1	90.7	76.2	78.4	68.6	65.2	58.8	46.2	0.8
1300	109.0	97.8	75.6	77.8	65.8	69.0	62.0	59.6	1.0
1400	101.5	95.0	81.0	76.8	75.4	64.8	59.6	52.6	0.8
1500	145.9	141.0	133.2	117.8	105.0	98.2	94.6	82.4	1.2
1600	171.9	152.8	140.2	120.4	112.0	99.8	94.6	89.4	1.1
1700	186.8	168.4	147.2	136.6	118.8	116.8	114.8	97.6	1.2
1800	131.9	127.6	106.6	101.0	92.8	93.0	84.4	79.8	1.2
1900	104.9	94.8	83.6	76.2	70.4	63.6	56.6	68.0	1.4
2000	83.7	75.4	62.8	59.0	59.6	47.6	42.6	41.2	1.2
2100	62.1	55.2	53.0	45.6	41.4	37.2	34.8	31.4	1.2
2200	46.5	41.7	40.6	36.8	41.6	29.4	30.8	29.6	1.4
2300	39.2	32.7	29.0	31.2	29.4	20.4	22.2	18.2	1.4
<b>Total</b>	<b>1829.8</b>	<b>1678.8</b>	<b>1469.8</b>	<b>1377.0</b>	<b>1261.2</b>	<b>1156.6</b>	<b>1099.4</b>	<b>994.2</b>	

**Note:** The percentage of weekday traffic volumes used in the above tables is based on results from 43 two-way ATC sites on A roads throughout the county in 2008 (Table 2.11, GMTU Report 1476)



**Note:**

To compare the weekday distribution of accidents with those of Saturday and Sunday, the total average weekday was calculated:

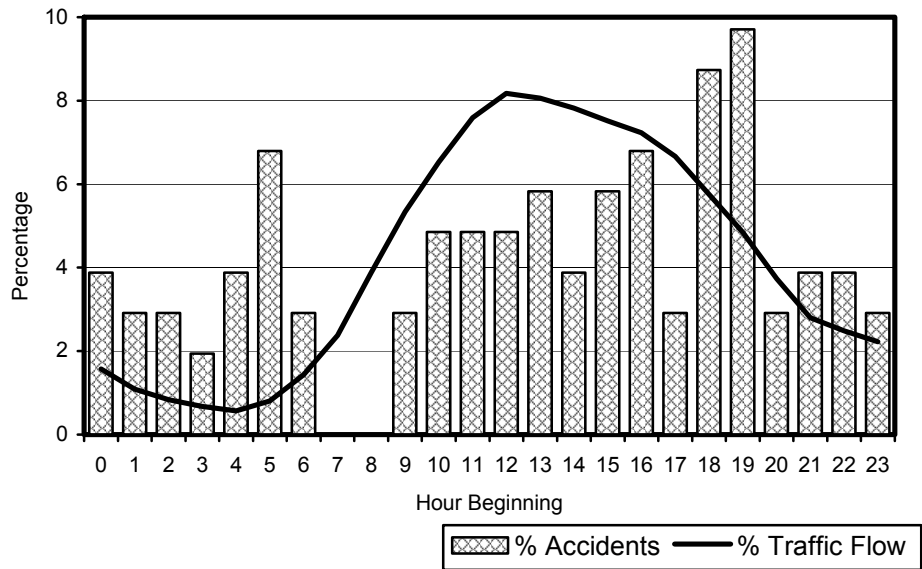
Total weekday accidents occurring in hour

From Hour	Average 1994-98	Average 1999-2003	2004	2005	2006	2007	2008	2009	% KSI accidents/ % traffic volume
0000	7	8	9	6	6	7	3	4	2.5
0100	6	8	4	9	9	12	10	3	2.7
0200	8	7	19	5	10	6	7	3	3.5
0300	2	3	3	5	6	4	6	2	2.9
0400	1	3	2	3	2	2	0	4	6.8
0500	1	2	1	2	3	2	2	7	8.5
0600	2	2	4	3	2	2	0	3	2.0
0700	3	2	3	3	1	1	0	0	0.0
0800	2	3	2	7	3	5	2	0	0.0
0900	3	2	0	2	4	7	3	3	0.5
1000	7	7	4	4	3	5	2	5	0.7
1100	8	8	6	5	2	5	4	5	0.6
1200	8	8	8	8	5	6	4	5	0.6
1300	10	9	9	3	6	1	8	6	0.7
1400	11	8	5	15	10	9	6	4	0.5
1500	10	10	4	14	5	9	3	6	0.8
1600	15	11	8	10	3	6	7	7	0.9
1700	15	9	5	12	13	11	8	3	0.4
1800	13	13	11	5	6	13	9	9	1.5
1900	9	12	11	12	12	7	8	10	2.0
2000	9	8	12	11	10	5	4	3	0.8
2100	9	7	10	10	7	2	11	4	1.4
2200	6	7	5	9	8	4	4	4	1.6
2300	10	9	14	8	8	6	6	3	1.3
Total	175	166	159	171	144	137	117	103	

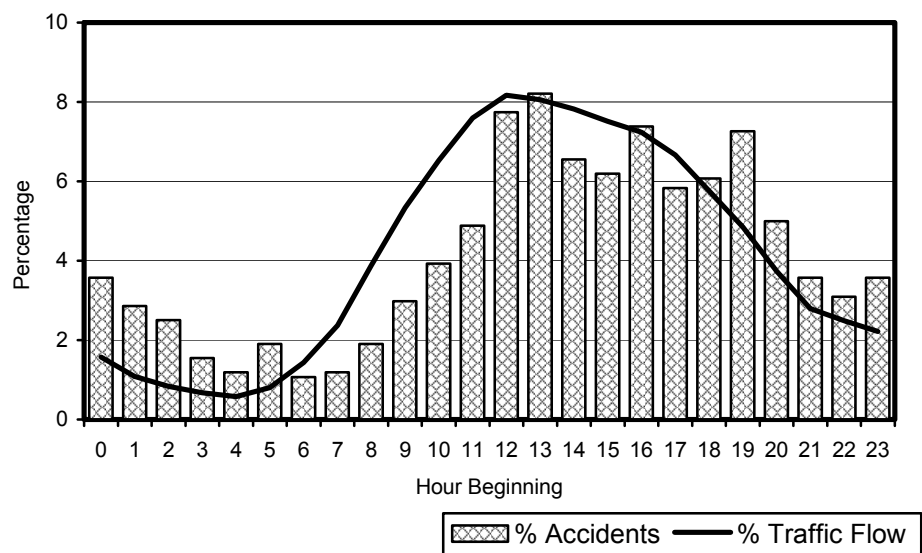
From Hour	Average 1994-98	Average 1999-2003	2004	2005	2006	2007	2008	2009	% accidents/ % traffic volume
0000	53	54	48	45	44	36	25	30	2.3
0100	32	38	32	31	40	29	27	24	2.6
0200	39	43	48	25	35	30	28	21	3.0
0300	13	23	33	20	22	20	19	13	2.3
0400	10	12	9	15	22	13	9	10	2.1
0500	6	9	6	5	14	13	6	16	2.4
0600	11	10	17	10	11	15	5	9	0.7
0700	25	19	16	17	13	15	15	10	0.5
0800	36	32	29	20	26	24	16	16	0.5
0900	53	40	31	28	34	35	26	25	0.6
1000	71	70	68	44	46	52	37	33	0.6
1100	106	97	72	81	66	44	50	41	0.6
1200	129	119	100	105	79	65	64	65	0.9
1300	137	117	79	97	88	66	57	69	1.0
1400	137	115	93	97	79	76	63	55	0.8
1500	118	106	85	93	75	65	60	52	0.8
1600	118	105	84	74	73	65	53	62	1.0
1700	119	100	85	91	84	59	61	49	0.9
1800	104	98	103	84	61	70	68	51	1.1
1900	92	88	82	89	72	63	59	61	1.5
2000	87	73	81	70	59	48	55	42	1.3
2100	63	54	50	55	50	39	39	30	1.3
2200	45	50	52	52	40	30	37	26	1.2
2300	56	56	51	43	46	25	34	30	1.6
Total	1658	1526	1354	1291	1179	997	913	840	

**Note:** The percentage of Saturday traffic volumes used in the above tables is based on results from 43 two-way ATC sites on A roads throughout the county in 2008 (Table 2.11, GMTU Report 1476)

**Figure 2.5 KSI Accidents & Traffic Flow by Time of Day 2009 - Saturday**



**Figure 2.6 Accidents & Traffic Flow by Time of Day 2009 - Saturday**

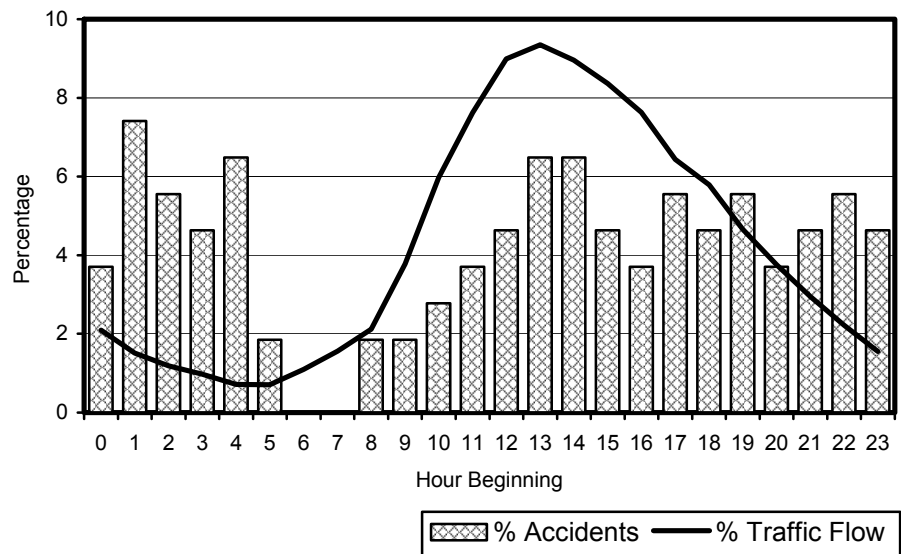


From Hour	Average 1994-98	Average 1999-2003	2004	2005	2006	2007	2008	2009	% KSI accidents/ % traffic volume
0000	7	6	10	7	13	5	2	4	1.8
0100	4	6	5	8	2	3	6	8	4.9
0200	7	8	10	9	5	2	3	6	4.7
0300	3	5	9	2	1	3	2	5	4.8
0400	1	2	1	2	6	1	4	7	9.0
0500	1	1	1	0	2	1	1	2	2.6
0600	1	1	2	0	2	0	3	0	0.0
0700	2	3	0	0	0	2	0	0	0.0
0800	1	2	1	1	0	2	2	2	0.9
0900	2	3	2	0	0	0	3	2	0.5
1000	3	2	4	1	5	4	1	3	0.5
1100	4	4	1	4	7	11	3	4	0.5
1200	7	5	2	10	1	8	7	5	0.5
1300	9	5	6	10	8	9	4	7	0.7
1400	9	8	10	10	8	8	7	7	0.7
1500	11	8	6	13	11	8	7	5	0.6
1600	9	7	10	4	6	5	6	4	0.5
1700	10	8	7	14	5	7	4	6	0.9
1800	9	8	12	8	7	9	7	5	0.8
1900	8	9	5	4	4	3	4	6	1.2
2000	9	6	6	3	1	6	5	4	1.0
2100	7	6	3	4	7	7	5	5	1.6
2200	6	4	7	5	7	7	5	6	2.5
2300	9	7	6	4	2	5	2	5	3.0
<b>Total</b>	<b>140</b>	<b>126</b>	<b>126</b>	<b>123</b>	<b>110</b>	<b>116</b>	<b>93</b>	<b>108</b>	

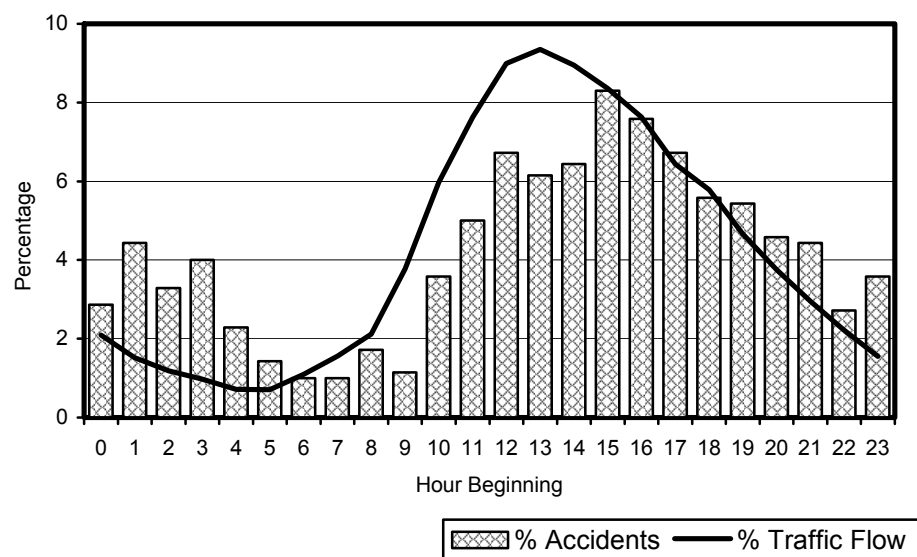
From Hour	Average 1994-98	Average 1999-2003	2004	2005	2006	2007	2008	2009	% accidents/ % traffic volume
0000	48	51	42	42	47	34	23	20	1.4
0100	31	34	32	41	30	26	25	31	2.9
0200	39	46	51	48	33	20	23	23	2.8
0300	21	28	26	25	17	21	26	28	4.1
0400	8	14	11	12	15	10	14	16	3.2
0500	6	7	7	2	7	13	3	10	2.0
0600	8	6	5	5	7	9	11	7	0.9
0700	13	11	13	14	8	12	8	7	0.6
0800	14	13	14	12	12	14	9	12	0.8
0900	25	22	19	22	19	13	18	8	0.3
1000	49	42	46	25	33	30	26	25	0.6
1100	63	58	50	49	60	47	40	35	0.7
1200	93	80	65	72	62	52	41	47	0.7
1300	106	104	83	74	74	81	53	43	0.7
1400	96	102	82	76	77	62	56	45	0.7
1500	96	86	60	65	68	66	55	58	1.0
1600	95	85	74	72	65	60	53	53	1.0
1700	83	82	73	68	59	71	50	47	1.0
1800	82	74	69	73	59	53	48	39	1.0
1900	75	71	54	53	51	48	60	38	1.2
2000	73	66	59	65	42	37	24	32	1.2
2100	51	51	44	45	40	34	28	31	1.5
2200	44	41	40	52	32	28	21	19	1.2
2300	50	39	38	34	26	18	21	25	2.3
<b>Total</b>	<b>1269</b>	<b>1215</b>	<b>1057</b>	<b>1046</b>	<b>943</b>	<b>859</b>	<b>736</b>	<b>699</b>	

**Note:** The percentage of Sunday traffic volumes used in the above tables is based on results from 43 two-way ATC sites on A roads throughout the county in 2008 (Table 2.11, GMTU Report 1476)

**Figure 2.7 KSI Accidents & Traffic Flow by Time of Day 2009 - Sunday**



**Figure 2.8 Accidents & Traffic Flow by Time of Day 2009 - Sunday**



## Accidents on A Class Roads

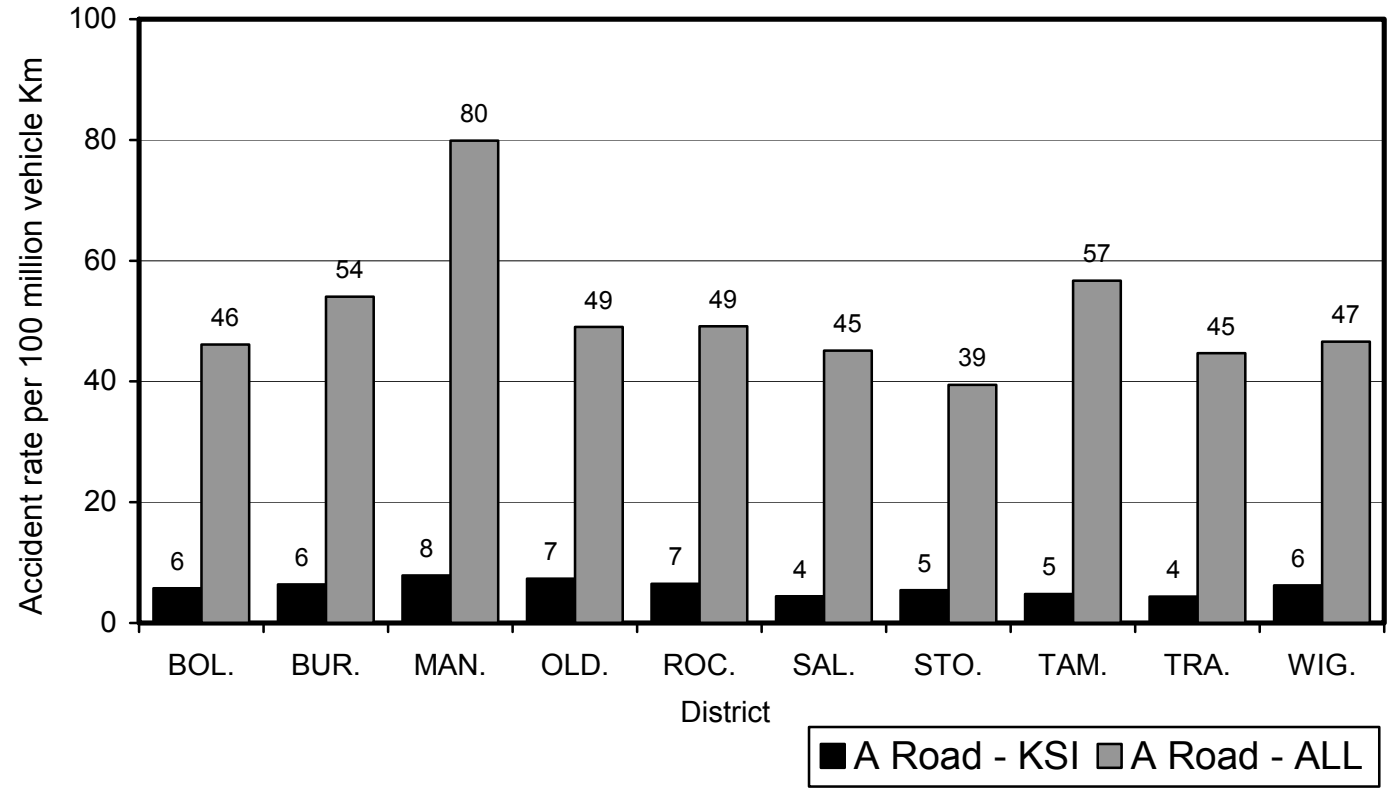
District	Road Length KM	Car KSI Accidents	Accident Rate Per 100 Million Car Km	Goods KSI Accidents	Accident Rate Per 100 Million Goods Km	All KSI Accidents	Accident Rate Per 100 Million Vehicle Km
Bolton	101	35	6	3	3	41	6
Bury	55	20	6	1	3	23	6
Manchester	116	65	8	7	6	79	8
Oldham	98	27	7	6	10	34	7
Rochdale	80	25	7	2	4	29	7
Salford	87	31	5	1	1	31	4
Stockport	84	29	5	3	4	35	5
Tameside	66	17	5	0	0	18	5
Trafford	58	17	5	1	2	19	4
Wigan	117	41	7	4	4	44	6
Total (All GM)	863	307	6	28	4	353	6

District	Road Length KM	Car Accidents	Accident Rate Per 100 Million Car Km	Goods Accidents	Accident Rate Per 100 Million Goods Km	All Accidents	Accident Rate Per 100 Million Vehicle Km
Bolton	101	306	50	39	43	327	46
Bury	55	183	59	15	38	194	54
Manchester	116	732	85	69	61	799	80
Oldham	98	206	53	26	41	226	49
Rochdale	80	205	54	16	29	219	49
Salford	87	299	51	32	33	313	45
Stockport	84	228	41	26	35	254	39
Tameside	66	202	65	20	38	211	57
Trafford	58	179	48	27	51	193	45
Wigan	117	300	51	32	30	327	47
Total (All GM)	863	2840	57	302	41	3063	53

### Notes:

1. Accident rates per 100 million vehicle kilometres are derived from figures quoted in the GMTU Report 1476 'Transport Statistics Greater Manchester 2008'.
2. A roads include A57(M) but exclude the A627(M).
3. Some 'car' accidents may also involve 'goods' and vice-versa. Thus, there may be fewer 'all vehicle' accidents than the total of 'car' and 'goods' accidents.
4. KSI = Killed and Seriously Injured.

**Figure 2.9 All Vehicle Accident Rates on A Roads by District 2009**



### Accidents on B Class Roads

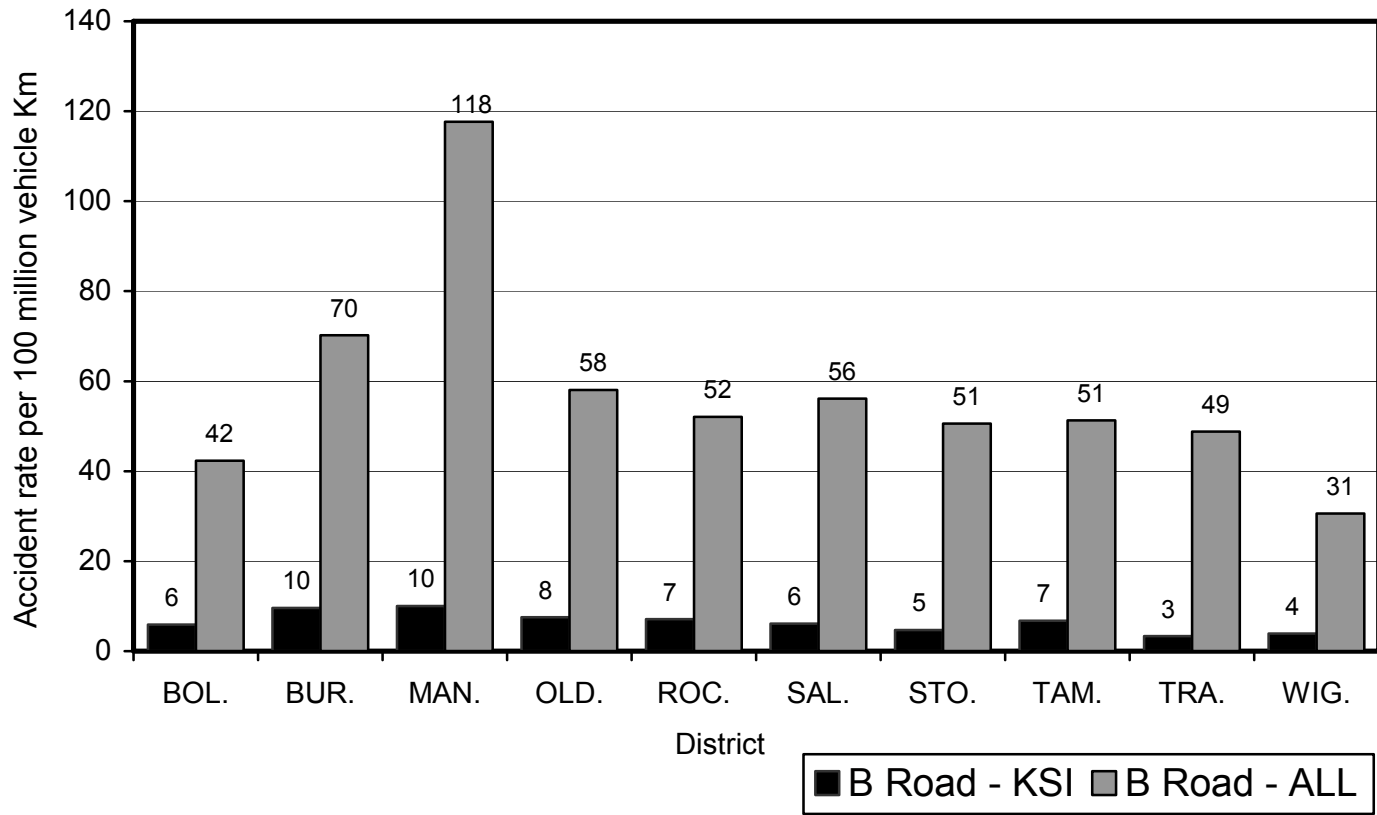
Table 2.11 Car, Goods and All KSI Vehicle Accident Rates on B Roads for 2009							
District	Road Length KM	Car KSI Accidents	Accident Rate Per 100 Million Car Km	Goods KSI Accidents	Accident Rate Per 100 Million Goods Km	All KSI Accidents	Accident Rate Per 100 Million Vehicle Km
Bolton	46	10	7	0	0	10	6
Bury	33	8	9	1	9	10	10
Manchester	36	16	11	1	6	17	10
Oldham	30	6	8	0	0	7	8
Rochdale	24	7	8	1	9	7	7
Salford	29	7	7	0	0	7	6
Stockport	36	8	5	0	0	8	5
Tameside	32	7	7	1	7	8	7
Trafford	52	7	4	1	5	7	3
Wigan	56	8	4	1	4	9	4
Total (All GM)	375	84	7	6	4	90	6

Table 2.12 Car, Goods and All Vehicle Accident Rates on B Roads for 2009							
District	Road Length KM	Car Accidents	Accident Rate Per 100 Million Car Km	Goods Accidents	Accident Rate Per 100 Million Goods Km	All Accidents	Accident Rate Per 100 Million Vehicle Km
Bolton	46	69	47	5	26	72	42
Bury	33	68	75	4	36	73	70
Manchester	36	186	126	11	69	200	118
Oldham	30	50	63	6	50	54	58
Rochdale	24	47	55	7	64	51	52
Salford	29	61	61	4	33	64	56
Stockport	36	84	56	4	22	86	51
Tameside	32	58	57	6	40	61	51
Trafford	52	99	54	8	40	102	49
Wigan	56	68	34	3	11	71	31
Total (All GM)	375	790	61	58	36	834	56

#### Notes:

1. Accident rates per 100 million vehicle kilometres are derived from figures quoted in the GMTU Report 1476 'Transport Statistics Greater Manchester 2008'.
2. KSI = Killed and Seriously Injured.
3. Some 'car' accidents may also involve 'goods' and vice-versa. Thus, there may be fewer 'all vehicle' accidents than the total of 'car' and 'goods' accidents.

**Figure 2.10 All Vehicle Accident Rates on B Roads by District 2009**



## Accidents on Motorways

Table 2.13 Injury Accident Rates Per 100 Million Vehicle Motorway Kilometres															
Road Number	2005			2006			2007			2008			2009		
	Injury Accidents	Vehicle Km (Millions)	Rate Per 10 <sup>8</sup> Veh Km	Injury Accidents	Vehicle Km (Millions)	Rate Per 10 <sup>8</sup> Veh Km	Injury Accidents	Vehicle Km (Millions)	Rate Per 10 <sup>8</sup> Veh Km	Injury Accidents	Vehicle Km (Millions)	Rate Per 10 <sup>8</sup> Veh Km	Injury Accidents	Vehicle Km (Millions)	Rate Per 10 <sup>8</sup> Veh Km
<b>Outer Radials</b>															
M56	33	416	8	55	413	13	38	413	9	30	406	7	18	406	4
M61	62	627	10	75	626	12	54	638	8	51	630	8	55	630	9
M62 (M63 to Boundary)	31	349	9	29	355	8	28	367	8	26	368	7	19	368	5
OM62 (M66 to Boundary)	77	783	10	90	772	12	68	788	9	80	774	10	63	774	8
M66 (North of M62)	23	316	7	24	322	7	32	331	10	31	329	9	23	329	7
M67	13	113	12	20	113	18	20	114	18	17	113	15	14	113	12
M60 Formerly M63 (Spur)	0	9	0	0	9	0	1	9	11	2	11	18	3	11	26
<b>Total</b>	<b>239</b>	<b>2613</b>	<b>9</b>	<b>293</b>	<b>2610</b>	<b>11</b>	<b>241</b>	<b>2660</b>	<b>9</b>	<b>237</b>	<b>2631</b>	<b>9</b>	<b>195</b>	<b>2631</b>	<b>7</b>
<b>M60 Ring (Northern Section)</b>															
Formerly M62 (M63 to M66)	72	689	10	84	703	12	79	717	11	76	709	11	72	709	10
Formerly M66 (South of M62)	6	72	8	8	75	11	10	76	13	6	80	7	9	80	11
M60 (Middleton to Denton)	30	509	6	38	503	8	35	507	7	37	500	7	28	500	6
<b>Total</b>	<b>108</b>	<b>1270</b>	<b>9</b>	<b>130</b>	<b>1281</b>	<b>10</b>	<b>124</b>	<b>1300</b>	<b>10</b>	<b>119</b>	<b>1289</b>	<b>9</b>	<b>109</b>	<b>1289</b>	<b>8</b>
<b>M60 (Southern Section)</b>															
Formerly M63	104	912	11	102	943	11	114	967	12	89	984	9	65	984	7
Formerly M66 (Brinnington to Denton)	10	158	6	13	156	8	15	155	10	11	155	7	13	155	8
<b>Total</b>	<b>114</b>	<b>1070</b>	<b>11</b>	<b>115</b>	<b>1099</b>	<b>10</b>	<b>129</b>	<b>1122</b>	<b>11</b>	<b>100</b>	<b>1139</b>	<b>9</b>	<b>78</b>	<b>1139</b>	<b>7</b>
<b>Others</b>															
M602	24	153	16	30	153	20	22	156	14	28	155	18	28	155	18
M6	44	541	8	44	532	8	30	542	6	26	549	5	16	549	3
M58	1	21	5	7	20	35	3	20	15	5	20	25	1	20	5
A627(M)	18	95	19	12	99	12	21	99	21	18	99	18	8	99	8
<b>Total</b>	<b>87</b>	<b>810</b>	<b>11</b>	<b>93</b>	<b>804</b>	<b>12</b>	<b>76</b>	<b>817</b>	<b>9</b>	<b>77</b>	<b>823</b>	<b>9</b>	<b>53</b>	<b>823</b>	<b>6</b>
<b>Grand Total</b>	<b>548</b>	<b>5763</b>	<b>10</b>	<b>631</b>	<b>5795</b>	<b>11</b>	<b>570</b>	<b>5899</b>	<b>10</b>	<b>533</b>	<b>5882</b>	<b>9</b>	<b>435</b>	<b>5882</b>	<b>7</b>

**Notes:** Outer Radials – Motorways approaching the motorway ring around the conurbation core

M60 Ring (Northern Section) - Motorways forming the northern ring

M60 Ring (Southern Section) - Motorways forming the southern ring

Others - Motorways not included in the other three sections

\* - Accident Rates for 2001 onwards include the M60 Denton to Middleton Link

### Motorways in Greater Manchester

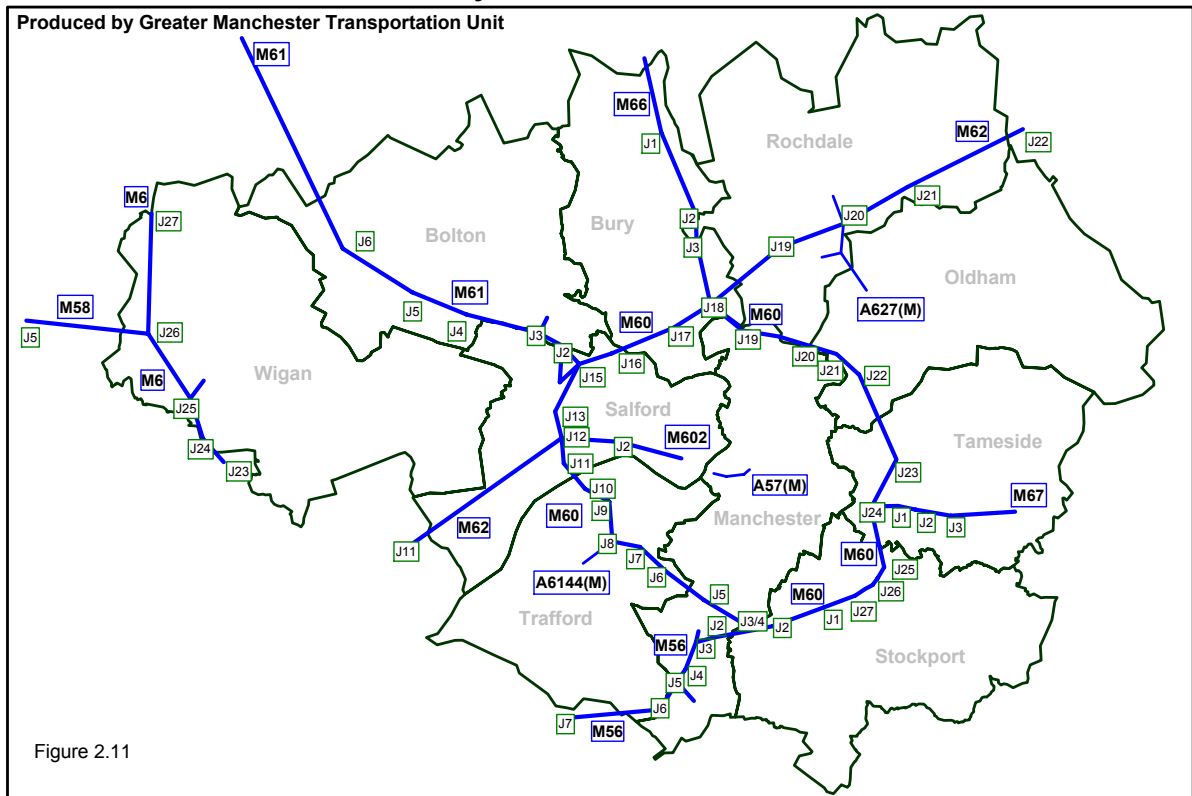
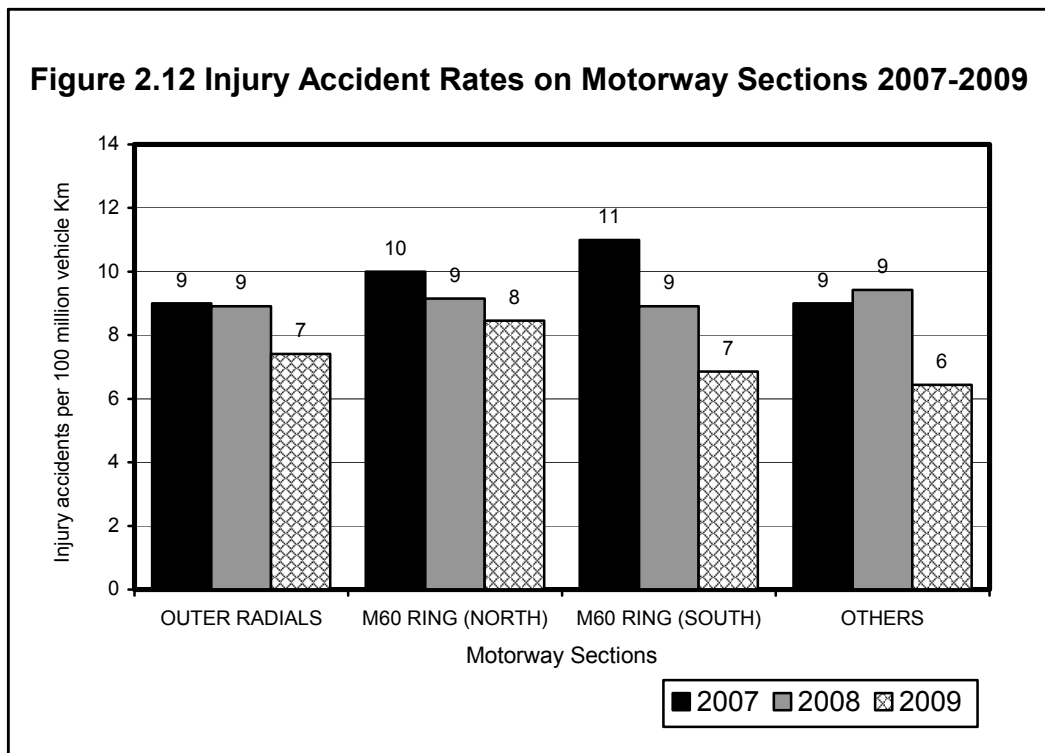


Figure 2.12 Injury Accident Rates on Motorway Sections 2007-2009





### **3. Vehicle Statistics**

## Vehicles Involved in Injury Accidents

Vehicle	Average 1994-98	Average 1999-2003	2004	2005	2006	2007	2008	2009
Pedal Cycle	1201	991	831	805	787	756	784	783
Moped	63	186	212	216	156	145	124	93
Motor Cycle 51-125cc	23	221	222	229	185	201	195	181
Motor Cycle 126-500cc	0	0	0	94	99	94	89	82
Motor Cycle > 500cc	0	0	0	226	241	247	231	201
Motor Cycle >125cc*	520	436	408	79	0	0	0	0
Taxi	159	176	182	424	441	373	381	372
Car	17490	16196	14124	12939	11995	10813	9948	9319
Mini-Bus	106	91	102	86	75	74	70	63
PCV/Tram	649	635	533	567	512	416	423	294
Goods <= 3.5T	1189	969	642	636	541	517	459	411
Goods > 3.5T	632	555	442	440	440	431	319	237
Other Motor	124	188	307	306	230	190	155	148
Other Non Motor	17	19	27	14	15	11	14	7
<b>Total</b>	<b>22174</b>	<b>20663</b>	<b>18032</b>	<b>17061</b>	<b>15717</b>	<b>14268</b>	<b>13192</b>	<b>12191</b>
% 'Hit and Run'	7.3	11.1	10.6	12.6	11.6	10.9	11.0	10.7

**Notes:** From 1999 the definitions for the vehicle type variable were revised. The main category that was affected by the review was motorcycles, which were split into two groups above and below 125cc. Prior to 1999 the split was between scooters and motorcycles. From April 2005 the definitions for motorcycles were split further into three groups, 51-125cc, 126-500cc and over 500cc.

\* - The vehicle type variable 'Motorcycles over 125cc' was ended March 2005.

Object Hit	Average 1994-98	Average 1999-2003	2004	2005	2006	2007	2008	2009
Road sign, traffic signal	117	113	125	127	125	110	120	102
Lamp post	191	165	171	119	124	132	94	93
Telegraph electricity pole	18	20	12	18	15	9	17	10
Tree	87	79	95	70	87	76	62	51
Bus stop/shelter	14	13	18	16	12	15	9	14
Central safety barrier	92	107	58	79	104	82	79	87
Near/offside safety barrier	126	137	157	130	136	136	116	116
Submerged in water (completely)	0	0	0	1	0	1	0	0
Entered ditch	17	14	10	10	15	19	10	12
Other permanent object	436	426	378	400	416	309	270	274
<b>Total Vehicles Involved</b>	<b>1100</b>	<b>1073</b>	<b>1024</b>	<b>970</b>	<b>1034</b>	<b>889</b>	<b>777</b>	<b>759</b>
<b>Pedestrians hit while</b>								
On footway/verge	184	198	186	177	153	153	150	89
On refuge/island/reservation	8	9	11	7	6	10	15	7

**Vehicle Drivers Involved in Accidents by Sex and Age**

<b>Table 3.3 Drivers by Vehicle Type, Sex and Age of Driver – 2009</b>																				
	<b>Car Drivers</b>				<b>Pedal Cyclists</b>				<b>TWPV Drivers</b>				<b>Other Drivers</b>				<b>All Drivers</b>			
	<b>M</b>	<b>F</b>	<b>NT</b>	<b>All</b>	<b>M</b>	<b>F</b>	<b>NT</b>	<b>All</b>	<b>M</b>	<b>F</b>	<b>NT</b>	<b>All</b>	<b>M</b>	<b>F</b>	<b>NT</b>	<b>All</b>	<b>M</b>	<b>F</b>	<b>NT</b>	<b>All</b>
0-4	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4	0	0	4
5-9	0	0	0	0	32	8	0	40	1	0	0	1	1	0	0	1	34	8	0	42
10-14	1	0	0	1	91	10	0	101	1	0	0	1	1	1	0	2	94	11	0	105
15-19	403	221	0	624	65	9	0	74	109	7	0	116	8	1	0	9	585	238	0	823
20-24	713	478	6	1197	66	19	0	85	82	4	0	86	54	2	0	56	915	503	6	1424
25-29	690	483	6	1179	81	18	0	99	46	3	1	50	89	5	0	94	906	509	7	1422
30-34	778	445	45	1268	65	17	1	83	51	2	0	53	124	10	5	139	1018	474	51	1543
35-39	607	351	6	964	64	12	0	76	48	2	0	50	113	11	0	124	832	376	6	1214
40-44	750	447	84	1281	80	7	1	88	63	4	1	68	167	10	17	194	1060	468	103	1631
45-49	440	285	2	727	41	9	0	50	44	2	0	46	115	8	4	127	640	304	6	950
50-54	379	199	3	581	26	8	0	34	26	5	0	31	93	4	0	97	524	216	3	743
55-59	250	141	2	393	22	3	0	25	19	2	0	21	74	2	0	76	365	148	2	515
60-64	194	95	0	289	6	2	0	8	11	0	0	11	47	2	0	49	258	99	0	357
65-69	124	56	1	181	6	2	0	8	5	1	0	6	11	0	0	11	146	59	1	206
70+	208	98	0	306	7	1	0	8	2	0	0	2	10	1	0	11	227	100	0	327
Unknown	338	94	331	763	0	0	0	0	6	0	9	15	56	3	48	107	400	97	388	885
All Ages	5875	3393	486	9754	656	125	2	783	514	32	11	557	963	60	74	1097	8008	3610	573	12191

**Notes:** M = Male  
 F = Female  
 NT = not traced

### Vehicles Involved in Injury Accidents by Road Class

Table 3.4 Vehicle Involvement Rates: By Vehicle Type and Road Class 2005-2009															
	2005			2006			2007			2008			2009		
	Vehicle Km (millions)	Vehicle Accidents	Rate	Vehicle Km (millions)	Vehicle Accidents	Rate	Vehicle Km (millions)	Vehicle Accidents	Rate	Vehicle Km (millions)	Vehicle Accidents	Rate	Vehicle Km (millions)	Vehicle Accidents	Rate
<b>Motorway</b>															
Cars	4361	1031	24	4322	1103	26	4409	1062	24	4373	953	22	4373	811	19
Goods	1362	219	16	1434	279	19	1456	211	14	1472	195	13	1472	122	8
All Vehicles	5763	1285	22	5795	1416	24	5899	1303	22	5882	1179	20	5882	956	16
<b>A Road</b>															
Cars	5002	6462	129	5003	5888	118	5022	5308	106	4967	4799	97	4967	4653	94
Goods	738	518	70	749	385	51	759	436	57	745	350	47	745	319	43
All Vehicles	5858	8183	140	5867	7298	124	5890	6751	115	5819	6111	105	5819	5900	101
<b>B Road</b>															
Cars	1299	1677	129	1290	1432	111	1302	1342	103	1289	1282	99	1289	1243	96
Goods	159	99	62	160	105	66	161	83	52	160	68	43	160	62	39
All Vehicles	1492	2106	141	1482	1839	124	1494	1719	115	1479	1666	113	1479	1540	104

**Notes:** This table shows the total number of vehicles involved in road accidents, rather than the number of accidents involving that vehicle category.  
Motorway includes the A627(M).

## **4. Driver Statistics**

### Drivers Involved in Injury Accidents

Table 4.1 attempts to show how the percentage of young male drivers varies between all accidents and 'speeding' accidents. Since speed is not a variable recorded on STATS19, a proxy has been used based on the national contributory factors (implemented in April 2005) as follows:

- The national contributory factors were 'exceeding speed limit', 'travelling too fast for conditions', 'following too close', 'sudden braking', 'loss of control', or 'aggressive driving'.

Drivers Involved in		Male	Female	Not Traced	All
<b>All Accidents</b>	All Ages	17811	10744	1525	30080
	17-25	4123	2571	20	6714
	%17-25/All	23.1	23.9	1.3	22.3
<b>All KSI Accidents</b>	All Ages	1600	730	181	2511
	17-25	441	165	3	609
	%17-25/All	27.6	22.6	1.7	24.3
<b>All 'Speeding' Accidents</b>	All Ages	4719	2302	496	7517
	17-25	1334	594	9	1937
	%17-25/All	28.3	25.8	1.8	25.8
<b>All KSI 'Speeding' Accidents</b>	All Ages	576	175	70	821
	17-25	197	44	3	244
	%17-25/All	34.2	25.1	4.3	29.7

**Notes:** Car: STATS19 code, type of vehicle = 9 only

The 'Speeding' vehicle was defined as the contributory factors were 'exceeding speed limit', 'travelling too fast for conditions', 'following too close', 'sudden braking', 'loss of control', or 'aggressive driving'.

From Hour	Car Drivers involved in All Accidents				Car Drivers involved in All 'Speeding' Accidents			
	Male	Female	Not Traced	All	Male	Female	Not Traced	All
0000	310	85	46	441	120	23	20	163
0100	219	61	49	329	92	22	24	138
0200	186	35	35	256	77	16	22	115
0300	164	39	29	232	88	13	9	110
0400	113	27	16	156	56	11	8	75
0500	133	20	24	177	51	2	8	61
0600	257	86	26	369	54	17	6	77
0700	600	350	33	983	162	73	13	248
0800	980	957	69	2006	212	176	16	404
0900	716	618	37	1371	167	119	11	297
1000	671	460	51	1182	166	102	19	287
1100	761	497	65	1323	203	94	19	316
1200	992	676	58	1726	265	154	10	429
1300	1127	719	86	1932	295	163	32	490
1400	1032	635	69	1736	256	122	19	397
1500	1312	936	109	2357	305	181	20	506
1600	1435	959	93	2487	354	200	29	583
1700	1697	1092	122	2911	374	231	41	646
1800	1365	843	103	2311	333	189	32	554
1900	1155	607	108	1870	289	122	27	438
2000	843	417	85	1345	238	111	35	384
2100	679	288	74	1041	202	72	28	302
2200	611	198	75	884	194	52	29	275
2300	453	139	63	655	166	37	19	222
Total	17811	10744	1525	30080	4719	2302	496	7517

**Notes:** Car: STATS19 code, type of vehicle = 9 only

The 'Speeding' vehicle was defined as the contributory factors were 'exceeding speed limit', 'travelling too fast for conditions', 'following too close', 'sudden braking', 'loss of control', or 'aggressive driving'.

From Hour	Car Drivers involved in KSI Accidents				Car Drivers involved in KSI 'Speeding' Accidents			
	Male	Female	Not Traced	All	Male	Female	Not Traced	All
0000	57	11	9	77	29	4	6	39
0100	39	7	10	56	26	4	6	36
0200	34	6	6	46	16	3	2	21
0300	24	9	6	39	19	2	1	22
0400	30	6	2	38	16	3	2	21
0500	31	2	6	39	21	2	3	26
0600	21	1	3	25	6	0	2	8
0700	41	24	2	67	13	7	1	21
0800	67	54	5	126	27	9	1	37
0900	46	29	6	81	8	5	3	16
1000	44	25	6	75	12	3	2	17
1100	50	26	11	87	20	7	6	33
1200	60	34	7	101	14	8	1	23
1300	70	42	10	122	28	12	2	42
1400	91	46	4	141	21	4	2	27
1500	100	64	12	176	18	15	3	36
1600	111	67	6	184	35	15	4	54
1700	120	65	9	194	32	13	5	50
1800	144	73	13	230	42	23	4	69
1900	104	41	10	155	35	6	2	43
2000	83	30	11	124	23	7	5	35
2100	75	30	8	113	33	10	2	45
2200	93	26	8	127	42	8	3	53
2300	65	12	11	88	40	5	2	47
Total	1600	730	181	2511	576	175	70	821

**Notes:** Car: STATS19 code, type of vehicle = 9 only

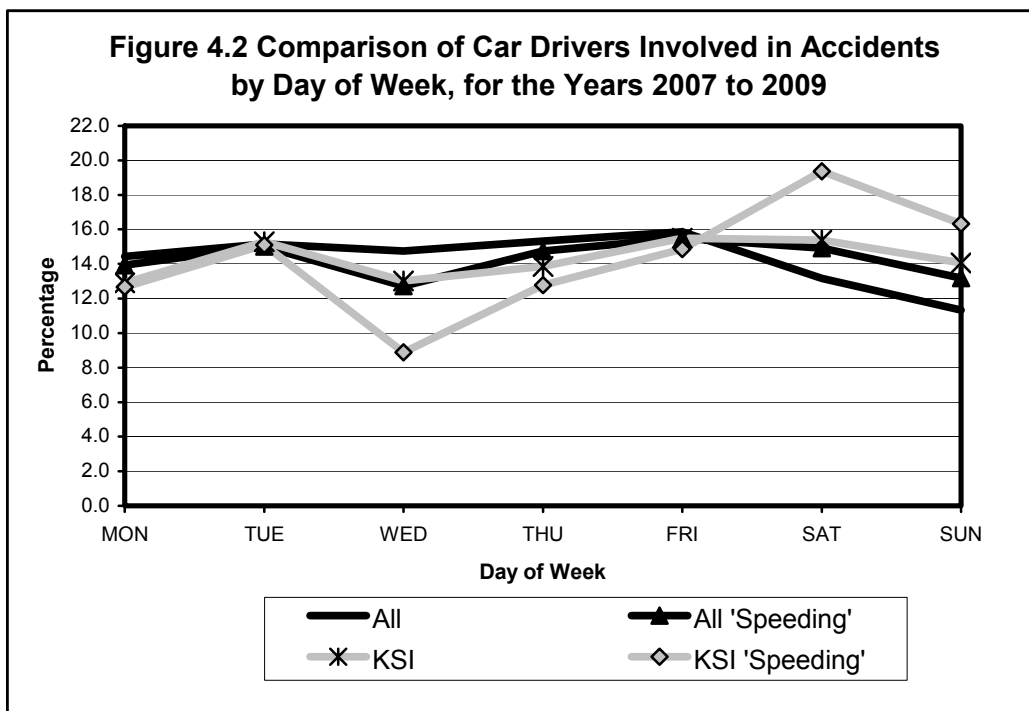
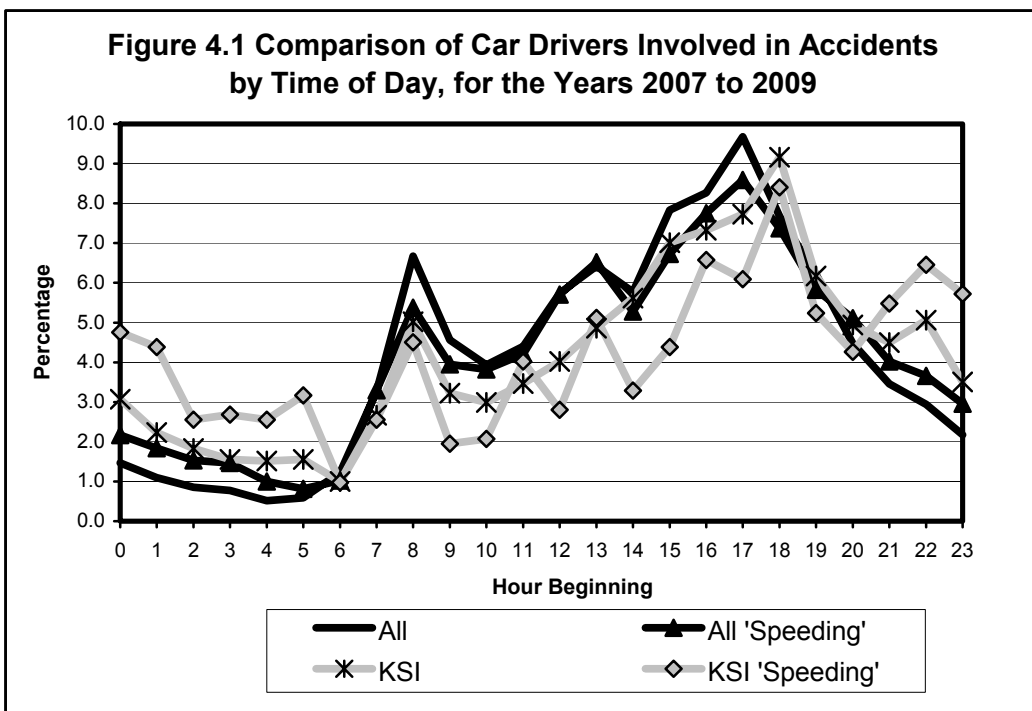
The 'Speeding' vehicle was defined as the contributory factors were 'exceeding speed limit', 'travelling too fast for conditions', 'following too close', 'sudden braking', 'loss of control', or 'aggressive driving'.

<b>Table 4.4 Numbers of Car Drivers Involved in Injury Accidents by Day of Week and Sex, for the Years 2007 to 2009</b>								
<b>Day of Week</b>	<b>Car Drivers involved in All Accidents</b>				<b>Car Drivers involved in All 'Speeding' Accidents</b>			
	<b>Male</b>	<b>Female</b>	<b>Not Traced</b>	<b>All</b>	<b>Male</b>	<b>Female</b>	<b>Not Traced</b>	<b>All</b>
Monday	2538	1616	187	4341	641	340	66	1047
Tuesday	2588	1761	209	4558	675	396	57	1128
Wednesday	2515	1708	213	4436	553	343	60	956
Thursday	2689	1716	202	4607	711	348	50	1109
Friday	2821	1691	259	4771	741	344	80	1165
Saturday	2476	1250	234	3960	742	291	88	1121
Sunday	2184	1002	221	3407	656	240	95	991
Total	17811	10744	1525	30080	4719	2302	496	7517

<b>Table 4.5 Numbers of Car Drivers Involved in KSI Accidents by Day of Week and Sex, for the Years 2007 to 2009</b>								
<b>Day of Week</b>	<b>Car Drivers involved in KSI Accidents</b>				<b>Car Drivers involved in KSI 'Speeding' Accidents</b>			
	<b>Male</b>	<b>Female</b>	<b>Not Traced</b>	<b>All</b>	<b>Male</b>	<b>Female</b>	<b>Not Traced</b>	<b>All</b>
Monday	189	107	28	324	66	26	12	104
Tuesday	234	129	21	384	82	37	5	124
Wednesday	206	99	22	327	51	15	7	73
Thursday	217	116	15	348	74	23	8	105
Friday	254	109	26	389	97	19	6	122
Saturday	261	83	42	386	110	28	21	159
Sunday	239	87	27	353	96	27	11	134
Total	1600	730	181	2511	576	175	70	821

**Notes:** Car: STATS19 code, type of vehicle = 9 only

The 'Speeding' vehicle was defined as the contributory factors were 'exceeding speed limit', 'travelling too fast for conditions', 'following too close', 'sudden braking', 'loss of control', or 'aggressive driving'.



<b>Age</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
<b>Male</b>					
Under 15	2	4	3	1	0
15-19	27	21	19	15	14
20-24	58	44	42	39	27
25-29	64	44	40	46	35
30-34	74	48	61	41	35
35-39	73	56	47	55	31
40-44	55	46	47	38	40
45-49	48	26	32	32	29
50-54	36	42	26	24	22
55-59	34	25	22	13	15
60-64	21	26	12	13	13
65-69	7	15	11	15	7
70-74	17	7	5	8	6
75-79	3	5	7	4	4
80-84	3	1	3	0	4
85-89	0	1	1	0	2
Unknown	25	30	20	22	20
<b>All Male</b>	<b>547</b>	<b>441</b>	<b>398</b>	<b>366</b>	<b>304</b>
<b>Female</b>					
Under 15	0	0	0	0	2
15-19	8	10	7	11	9
20-24	19	29	25	19	27
25-29	25	31	31	25	33
30-34	37	30	33	13	23
35-39	43	32	29	27	27
40-44	31	35	21	20	24
45-49	25	19	19	32	14
50-54	16	14	17	12	11
55-59	20	8	14	9	6
60-64	6	14	10	8	10
65-69	5	7	2	6	4
70-74	2	3	1	4	1
75-79	0	1	1	1	0
80-84	0	2	0	0	1
Unknown	5	6	5	5	2
<b>All Female</b>	<b>242</b>	<b>241</b>	<b>215</b>	<b>192</b>	<b>194</b>
<b>Not Traced (NT)</b>					
20-24	2	1	0	0	0
25-29	0	1	2	0	0
30-34	0	4	13	4	1
35-39	0	1	0	1	0
40-44	0	0	0	5	1
45-49	0	0	0	2	0
Unknown	33	31	21	22	18
<b>All Ages NT</b>	<b>35</b>	<b>38</b>	<b>36</b>	<b>34</b>	<b>20</b>
<b>All</b>					
Under 15	2	4	3	1	2
15-19	35	31	26	26	23
20-24	79	74	67	58	54
25-29	89	76	73	71	68
30-34	111	82	107	58	59
35-39	116	89	76	83	58
40-44	86	81	68	63	65
45-49	73	45	51	66	43
50-54	52	56	43	36	33
55-59	54	33	36	22	21
60-64	27	40	22	21	23
65-69	12	22	13	21	11
70-74	19	10	6	12	7
75-79	3	6	8	5	4
80-84	3	3	3	0	5
85-89	0	1	1	0	2
Unknown	63	67	46	49	40
<b>All Ages</b>	<b>824</b>	<b>720</b>	<b>649</b>	<b>592</b>	<b>518</b>

<b>Age</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
<b>Male</b>					
Under 15	2	3	1	0	0
15-19	16	10	11	11	9
20-24	34	25	27	22	16
25-29	36	26	18	30	20
30-34	50	23	32	24	21
35-39	47	34	28	30	17
40-44	34	29	24	21	22
45-49	26	13	16	17	16
50-54	15	22	14	18	13
55-59	21	17	8	8	7
60-64	14	13	5	6	8
65-69	5	8	6	7	3
70-74	7	5	2	2	6
75-79	2	2	1	2	3
80-84	2	0	1	0	2
85-89	0	1	0	0	0
Unknown	16	23	12	15	12
<b>All Male</b>	<b>327</b>	<b>254</b>	<b>206</b>	<b>213</b>	<b>175</b>
<b>Female</b>					
Under 15	0	0	0	0	2
15-19	4	7	3	9	7
20-24	8	21	15	8	17
25-29	11	17	16	17	18
30-34	20	20	21	7	13
35-39	21	19	20	14	16
40-44	21	26	13	11	14
45-49	15	12	9	20	8
50-54	11	10	10	6	6
55-59	13	7	6	6	6
60-64	1	7	7	6	3
65-69	2	3	1	5	0
70-74	1	2	0	3	1
75-79	0	0	0	0	0
80-84	0	1	0	0	1
Unknown	4	3	4	3	0
<b>All Female</b>	<b>132</b>	<b>155</b>	<b>125</b>	<b>115</b>	<b>112</b>
<b>Not Traced (NT)</b>					
20-24	2	0	0	0	0
30-34	0	4	9	3	1
35-39	0	1	0	0	0
40-44	0	0	0	3	1
45-49	0	0	0	1	0
Unknown	16	20	13	12	11
<b>All Ages NT</b>	<b>18</b>	<b>25</b>	<b>22</b>	<b>19</b>	<b>13</b>
<b>All</b>					
Under 15	2	3	1	0	2
15-19	20	17	14	20	16
20-24	44	46	42	30	33
25-29	47	43	34	47	38
30-34	70	47	62	34	35
35-39	68	54	48	44	33
40-44	55	55	37	35	37
45-49	41	25	25	38	24
50-54	26	32	24	24	19
55-59	34	24	14	14	13
60-64	15	20	12	12	11
65-69	7	11	7	12	3
70-74	8	7	2	5	7
75-79	2	2	1	2	3
80-84	2	1	1	0	3
85-89	0	1	0	0	0
Unknown	36	46	29	30	23
<b>All Ages</b>	<b>477</b>	<b>434</b>	<b>353</b>	<b>347</b>	<b>300</b>

## **5. Contributory Factors**

## Contributory Factor Report – National Factors

### Reporting of Contributory Factors

Table 5.1 tabulates the recording of road injury contributory factors for four classes of accidents by place accident reported (where a police officer attended the scene of the accident or not), for the years 2007 to 2009.

<b>Table 5.1 Reporting of Contributory Factors (CFs) for Road Accidents, for the Years 2007 to 2009</b>				
<b>Class of Accident</b>	<b>Attended at Scene</b>	<b>Number of Accidents with CF Coded (%)</b>		
		<b>Yes</b>	<b>No</b>	<b>Total</b>
All	Yes	15748 (74.0)	246 (1.2)	15994 (75.1)
	No	3113 (14.6)	2188 (10.3)	5301 (24.9)
KSI	Yes	2165 (90.3)	29 (1.2)	2194 (91.5)
	No	129 (5.4)	74 (3.1)	203 (8.5)
Child KSI	Yes	362 (89.4)	6 (1.5)	368 (90.9)
	No	28 (6.9)	9 (2.2)	37 (9.1)
Pedal Cycle	Yes	1421 (63.6)	27 (1.2)	1448 (64.8)
	No	469 (21.0)	318 (14.2)	787 (35.2)
Pedestrian	Yes	3488 (75.0)	62 (1.3)	3550 (76.3)
	No	683 (14.7)	420 (9.0)	1103 (23.7)

### Distribution of Contributory Factors by Class of Accident

Tables 5.2 to 5.6 give tabulations of national contributory factors recorded by GMP between January 2007 and December 2009. Please note that only those accidents where a police officer attended the scene of the accident and obtained the details for the STATS19 report are tabulated.

Important facts concerning the recording of the contributory factors:

- Up to six factors may be recorded for each accident
- More than one factor may be related to the same road user
- The same factor may be related to more than one road user

## All Accidents

Table 5.2 Top 52 Contributory Factors - All Accidents, for the Years 2007 to 2009					
Code	Contributory Factor	January 2007 to December 2009			
		Confidence Level		Total	%
		Very Likely	Possible		
405	Driver/Rider failed to look properly	3101	2883	5984	16.82
406	Driver/Rider failed to judge other person's path or speed	1557	1916	3473	9.76
802	Pedestrian failed to look properly	1492	757	2249	6.32
403	Poor turn or manoeuvre	1101	1138	2239	6.29
602	Driver/Rider - Careless/reckless/in a hurry	982	982	1964	5.52
410	Loss of control	832	562	1394	3.92
103	Slippery road (due to weather)	677	592	1269	3.57
307	Travelling too fast for conditions	384	570	954	2.68
808	Pedestrian - Careless/reckless/in a hurry	514	364	878	2.47
408	Sudden braking	381	496	877	2.46
701	Stationary or parked vehicle(s)	479	345	824	2.32
501	Driver/Rider impaired by alcohol	580	215	795	2.23
306	Exceeding speed limit	334	446	780	2.19
601	Aggressive driving	433	315	748	2.10
308	Following too close	304	437	741	2.08
801	Crossed road masked by stationary or parked vehicle	494	214	708	1.99
803	Failed to judge vehicle's path or speed	298	373	671	1.89
301	Driver/Rider disobeyed automatic traffic signal	331	312	643	1.81
605	Learner or inexperienced driver/rider	317	312	629	1.77
806	Pedestrian impaired by alcohol	349	173	522	1.47
302	Disobeyed Give Way or Stop sign or markings	312	191	503	1.41
401	Junction overshoot	259	238	497	1.40
999	Other	276	128	404	1.14
409	Swerved	189	171	360	1.01
707	Rain, sleet, snow, or fog	153	200	353	0.99
404	Failed to signal/misleading signal	109	211	320	0.90
706	Dazzling sun	153	146	299	0.84
509	Distraction in vehicle	99	166	265	0.74
603	Nervous/uncertain/panic	65	164	229	0.64
710	Vehicle blind spot	90	134	224	0.63
108	Road layout (eg bend, hill, narrow carriageway)	86	127	213	0.60
805	Pedestrian - Dangerous action in carriageway (eg playing)	130	74	204	0.57
402	Junction restart	95	107	202	0.57
901	Stolen vehicle	152	39	191	0.54
510	Distraction outside vehicle	81	105	186	0.52
505	Driver/Rider - Illness or disability, mental or physical	86	85	171	0.48
804	Pedestrian - Wrong use of pedestrian crossing facility	98	66	164	0.46
407	Passing too close to cyclist, horse rider or pedestrian	59	94	153	0.43
809	Pedestrian wearing dark clothing at night	91	61	152	0.43
703	Road layout (eg bend, winding road, hill crest)	61	84	145	0.41
310	Cyclist entering road from pavement	111	33	144	0.40
102	Deposit on road (eg oil, mud, chippings)	76	52	128	0.36
305	Illegal turn or direction of travel	85	30	115	0.32
104	Inadequate/masked signs or road markings	52	60	112	0.31
503	Fatigue	38	72	110	0.31
607	Inexperience with type of vehicle	30	56	86	0.24
810	Pedestrian - Disability or illness, mental or physical	38	40	78	0.22
507	Cyclist wearing dark clothing at night	43	34	77	0.22
903	Emergency vehicle on call	56	21	77	0.22
502	Driver/Rider impaired by drugs (illicit or medicinal)	28	43	71	0.20
109	Animal or object in carriageway	46	24	70	0.20
203	Defective brakes	21	45	66	0.19
	<b>Total (Top 52)</b>	<b>18208</b>	<b>16503</b>	<b>34711</b>	<b>97.55</b>

## KSI Accidents

Table 5.3 Top 51 Contributory Factors - KSI Accidents, for the Years 2007 to 2009					
Code	Contributory Factor	January 2007 to December 2009			
		Confidence Level		Total	%
		Very Likely	Possible		
405	Driver/Rider failed to look properly	326	317	643	12.65
802	Pedestrian failed to look properly	350	202	552	10.86
410	Loss of control	190	115	305	6.00
406	Driver/Rider failed to judge other person's path or speed	124	150	274	5.39
602	Driver/Rider - Careless/reckless/in a hurry	144	119	263	5.17
403	Poor turn or manoeuvre	131	129	260	5.12
306	Exceeding speed limit	110	104	214	4.21
808	Pedestrian - Careless/reckless/in a hurry	108	104	212	4.17
803	Failed to judge vehicle's path or speed	77	112	189	3.72
501	Driver/Rider impaired by alcohol	121	60	181	3.56
801	Crossed road masked by stationary or parked vehicle	115	59	174	3.42
601	Aggressive driving	103	58	161	3.17
806	Pedestrian impaired by alcohol	98	58	156	3.07
307	Travelling too fast for conditions	72	76	148	2.91
103	Slippery road (due to weather)	55	53	108	2.12
701	Stationary or parked vehicle(s)	60	36	96	1.89
605	Learner or inexperienced driver/rider	46	47	93	1.83
999	Other	50	26	76	1.50
409	Swerved	26	31	57	1.12
408	Sudden braking	24	31	55	1.08
401	Junction overshoot	30	20	50	0.98
809	Pedestrian wearing dark clothing at night	30	19	49	0.96
804	Pedestrian - Wrong use of pedestrian crossing facility	22	26	48	0.94
805	Pedestrian - Dangerous action in carriageway (eg playing)	26	22	48	0.94
301	Driver/Rider disobeyed automatic traffic signal	23	23	46	0.90
710	Vehicle blind spot	16	23	39	0.77
302	Disobeyed Give Way or Stop sign or markings	22	14	36	0.71
707	Rain, sleet, snow, or fog	12	20	32	0.63
706	Dazzling sun	14	14	28	0.55
308	Following too close	13	14	27	0.53
901	Stolen vehicle	22	5	27	0.53
505	Driver/Rider - Illness or disability, mental or physical	15	11	26	0.51
810	Pedestrian - Disability or illness, mental or physical	10	14	24	0.47
407	Passing too close to cyclist, horse rider or pedestrian	9	14	23	0.45
607	Inexperience with type of vehicle	10	11	21	0.41
310	Cyclist entering road from pavement	17	3	20	0.39
509	Distraction in vehicle	5	15	20	0.39
404	Failed to signal/misleading signal	4	14	18	0.35
502	Driver/Rider impaired by drugs (illicit or medicinal)	6	12	18	0.35
102	Deposit on road (eg oil, mud, chippings)	8	9	17	0.33
603	Nervous/uncertain/panic	6	11	17	0.33
108	Road layout (eg bend, hill, narrow carriageway)	7	9	16	0.31
503	Fatigue	7	8	15	0.30
507	Cyclist wearing dark clothing at night	8	7	15	0.30
305	Illegal turn or direction of travel	9	4	13	0.26
703	Road layout (eg bend, winding road, hill crest)	3	10	13	0.26
304	Driver/Rider disobeyed pedestrian crossing facility	3	9	12	0.24
402	Junction restart	6	6	12	0.24
807	Pedestrian impaired by drugs (illicit or medicinal)	2	10	12	0.24
203	Defective brakes	6	5	11	0.22
510	Distraction outside vehicle	4	7	11	0.22
	<b>Total (Top 51)</b>	<b>2705</b>	<b>2276</b>	<b>4981</b>	<b>97.99</b>

## Child KSI Accidents

Code	Contributory Factor	January 2007 to December 2009			
		Confidence Level		Total	%
		Very Likely	Possible		
802	Pedestrian failed to look properly	167	57	224	26.73
808	Pedestrian - Careless/reckless/in a hurry	55	47	102	12.17
801	Crossed road masked by stationary or parked vehicle	69	32	101	12.05
405	Driver/Rider failed to look properly	34	24	58	6.92
803	Failed to judge vehicle's path or speed	20	36	56	6.68
602	Driver/Rider - Careless/reckless/in a hurry	16	14	30	3.58
701	Stationary or parked vehicle(s)	15	11	26	3.10
805	Pedestrian - Dangerous action in carriageway (eg playing)	11	12	23	2.74
406	Driver/Rider failed to judge other person's path or speed	10	9	19	2.27
410	Loss of control	9	7	16	1.91
804	Pedestrian - Wrong use of pedestrian crossing facility	7	8	15	1.79
306	Exceeding speed limit	3	11	14	1.67
403	Poor turn or manoeuvre	10	3	13	1.55
307	Travelling too fast for conditions	3	8	11	1.31
605	Learner or inexperienced driver/rider	4	7	11	1.31
809	Pedestrian wearing dark clothing at night	6	5	11	1.31
310	Cyclist entering road from pavement	10	0	10	1.19
999	Other	4	6	10	1.19
401	Junction overshoot	5	2	7	0.84
601	Aggressive driving	5	2	7	0.84
103	Slippery road (due to weather)	1	5	6	0.72
806	Pedestrian impaired by alcohol	3	3	6	0.72
203	Defective brakes	3	2	5	0.60
501	Driver/Rider impaired by alcohol	0	5	5	0.60
707	Rain, sleet, snow, or fog	2	3	5	0.60
302	Disobeyed Give Way or Stop sign or markings	3	1	4	0.48
507	Cyclist wearing dark clothing at night	3	1	4	0.48
309	Vehicle travelling along pavement	1	2	3	0.36
407	Passing too close to cyclist, horse rider or pedestrian	1	2	3	0.36
409	Swerved	2	1	3	0.36
704	Buildings, road signs, street furniture	0	3	3	0.36
901	Stolen vehicle	2	1	3	0.36
408	Sudden braking	1	1	2	0.24
506	Not displaying lights at night or in poor visibility	1	1	2	0.24
708	Spray from other vehicles	0	2	2	0.24
108	Road layout (eg bend, hill, narrow carriageway)	0	1	1	0.12
109	Animal or object in carriageway	0	1	1	0.12
201	Tyres illegal, defective or under inflated	1	0	1	0.12
206	Overloaded or poorly loaded vehicle or trailer	1	0	1	0.12
301	Driver/Rider disobeyed automatic traffic signal	1	0	1	0.12
304	Driver/Rider disobeyed pedestrian crossing facility	0	1	1	0.12
305	Illegal turn or direction of travel	1	0	1	0.12
402	Junction restart	1	0	1	0.12
505	Driver/Rider - Illness or disability, mental or physical	0	1	1	0.12
508	Driver using mobile phone	0	1	1	0.12
509	Distraction in vehicle	0	1	1	0.12
510	Distraction outside vehicle	0	1	1	0.12
603	Nervous/uncertain/panic	1	0	1	0.12
703	Road layout (eg bend, winding road, hill crest)	1	0	1	0.12
706	Dazzling sun	0	1	1	0.12
710	Vehicle blind spot	0	1	1	0.12
810	Pedestrian - Disability or illness, mental or physical	0	1	1	0.12
903	Emergency vehicle on call	0	1	1	0.12
	<b>All</b>	<b>493</b>	<b>345</b>	<b>838</b>	<b>100.00</b>

## Pedal Cycle Accidents

Code	Contributory Factor	January 2007 to December 2009			
		Confidence Level		Total	%
		Very Likely	Possible		
405	Driver/Rider failed to look properly	550	411	961	31.33
406	Driver/Rider failed to judge other person's path or speed	120	191	311	10.14
403	Poor turn or manoeuvre	120	104	224	7.30
602	Driver/Rider - Careless/reckless/in a hurry	89	112	201	6.55
310	Cyclist entering road from pavement	107	32	139	4.53
701	Stationary or parked vehicle(s)	79	37	116	3.78
407	Passing too close to cyclist, horse rider or pedestrian	24	48	72	2.35
507	Cyclist wearing dark clothing at night	41	31	72	2.35
410	Loss of control	32	37	69	2.25
401	Junction overshoot	37	28	65	2.12
302	Disobeyed Give Way or Stop sign or markings	37	20	57	1.86
605	Learner or inexperienced driver/rider	24	25	49	1.60
404	Failed to signal/misleading signal	17	29	46	1.50
710	Vehicle blind spot	12	31	43	1.40
501	Driver/Rider impaired by alcohol	22	20	42	1.37
706	Dazzling sun	19	19	38	1.24
301	Driver/Rider disobeyed automatic traffic signal	14	20	34	1.11
103	Slippery road (due to weather)	14	19	33	1.08
707	Rain, sleet, snow, or fog	11	21	32	1.04
409	Swerved	16	15	31	1.01
506	Not displaying lights at night or in poor visibility	21	10	31	1.01
601	Aggressive driving	11	19	30	0.98
904	Vehicle door opened or closed negligently	23	7	30	0.98
999	Other	19	11	30	0.98
307	Travelling too fast for conditions	10	18	28	0.91
203	Defective brakes	13	12	25	0.82
304	Driver/Rider disobeyed pedestrian crossing facility	10	10	20	0.65
603	Nervous/uncertain/panic	5	14	19	0.62
305	Illegal turn or direction of travel	12	5	17	0.55
402	Junction restart	5	12	17	0.55
306	Exceeding speed limit	7	8	15	0.49
202	Defective lights or indicators	7	7	14	0.46
308	Following too close	4	10	14	0.46
309	Vehicle travelling along pavement	9	5	14	0.46
408	Sudden braking	6	8	14	0.46
108	Road layout (eg bend, hill, narrow carriageway)	2	10	12	0.39
703	Road layout (eg bend, winding road, hill crest)	3	8	11	0.36
509	Distraction in vehicle	3	6	9	0.29
505	Driver/Rider - Illness or disability, mental or physical	5	2	7	0.23
704	Buildings, road signs, street furniture	2	5	7	0.23
510	Distraction outside vehicle	4	2	6	0.20
702	Vegetation	1	5	6	0.20
802	Pedestrian failed to look properly	4	2	6	0.20
502	Driver/Rider impaired by drugs (illicit or medicinal)	1	4	5	0.16
503	Fatigue	1	4	5	0.16
606	Inexperience of driving on the left	3	1	4	0.13
901	Stolen vehicle	1	3	4	0.13
	<b>Total (Top 47)</b>	<b>1577</b>	<b>1458</b>	<b>3035</b>	<b>98.96</b>

## Pedestrian Accidents

Code	Contributory Factor	January 2007 to December 2009			
		Confidence Level		Total	%
		Very Likely	Possible		
802	Pedestrian failed to look properly	1486	751	2237	27.83
808	Pedestrian - Careless/reckless/in a hurry	511	361	872	10.85
801	Crossed road masked by stationary or parked vehicle	494	213	707	8.79
803	Failed to judge vehicle's path or speed	296	370	666	8.28
405	Driver/Rider failed to look properly	225	333	558	6.94
806	Pedestrian impaired by alcohol	349	173	522	6.49
805	Pedestrian - Dangerous action in carriageway (eg playing)	127	74	201	2.50
602	Driver/Rider - Careless/reckless/in a hurry	80	102	182	2.26
701	Stationary or parked vehicle(s)	96	70	166	2.06
804	Pedestrian - Wrong use of pedestrian crossing facility	97	66	163	2.03
809	Pedestrian wearing dark clothing at night	91	61	152	1.89
406	Driver/Rider failed to judge other person's path or speed	44	75	119	1.48
999	Other	71	40	111	1.38
403	Poor turn or manoeuvre	55	55	110	1.37
103	Slippery road (due to weather)	36	62	98	1.22
601	Aggressive driving	57	35	92	1.14
810	Pedestrian - Disability or illness, mental or physical	38	40	78	0.97
306	Exceeding speed limit	28	44	72	0.90
707	Rain, sleet, snow, or fog	22	45	67	0.83
410	Loss of control	40	25	65	0.81
710	Vehicle blind spot	28	37	65	0.81
407	Passing too close to cyclist, horse rider or pedestrian	26	38	64	0.80
307	Travelling too fast for conditions	26	37	63	0.78
501	Driver/Rider impaired by alcohol	36	18	54	0.67
807	Pedestrian impaired by drugs (illicit or medicinal)	23	27	50	0.62
605	Learner or inexperienced driver/rider	29	17	46	0.57
706	Dazzling sun	19	23	42	0.52
304	Driver/Rider disobeyed pedestrian crossing facility	14	22	36	0.45
301	Driver/Rider disobeyed automatic traffic signal	13	15	28	0.35
603	Nervous/uncertain/panic	8	18	26	0.32
309	Vehicle travelling along pavement	14	9	23	0.29
409	Swerved	11	12	23	0.29
408	Sudden braking	10	12	22	0.27
510	Distraction outside vehicle	8	13	21	0.26
901	Stolen vehicle	13	4	17	0.21
509	Distraction in vehicle	3	13	16	0.20
108	Road layout (eg bend, hill, narrow carriageway)	5	10	15	0.19
305	Illegal turn or direction of travel	10	4	14	0.17
401	Junction overshoot	10	4	14	0.17
402	Junction restart	5	9	14	0.17
703	Road layout (eg bend, winding road, hill crest)	4	9	13	0.16
404	Failed to signal/misleading signal	4	8	12	0.15
302	Disobeyed Give Way or Stop sign or markings	5	6	11	0.14
704	Buildings, road signs, street furniture	0	10	10	0.12
308	Following too close	4	5	9	0.11
505	Driver/Rider - Illness or disability, mental or physical	5	3	8	0.10
902	Vehicle in course of crime	7	1	8	0.10
705	Dazzling headlights	1	6	7	0.09
607	Inexperience with type of vehicle	4	2	6	0.07
708	Spray from other vehicles	1	5	6	0.07
	<b>Total (Top 50)</b>	<b>4589</b>	<b>3392</b>	<b>7981</b>	<b>99.28</b>