

Workplace injuries and workforce trends

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Some jobs carry a greater risk of injury than others. If a job involves heavy manual labour then a greater risk of injury may be associated with it when compared with, say, a sedentary office job. The risk of workplace injury is clearly related to the job. However, previous research into the incidence of workplace injuries has also shown that some individuals appear to be more likely than others to suffer a workplace injury. This study is an attempt to unravel this puzzle using a statistical technique that can identify the risk of workplace injury associated with the affects of specific personal characteristics from those which relate to the nature of the job.

The Health and Safety Executive (HSE) has published the main messages from the research report on the internet (www.hse.gov.uk/keyart.pdf).

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Summary

Some jobs carry a greater risk of workplace injury than others. For example, if a job involves heavy manual work then a greater risk of injury may be associated with it compared with, say, a sedentary office job. The risk of workplace injury is clearly related to the nature of a job. However, previous research (Stevens, 1992) into the incidence of workplace injuries has also shown that some individuals appear to be more likely than others to suffer a workplace injury. In particular, higher than average injury rates are found among men and young workers. The problem we face here is that this association does not imply causation. Much of the research on workplace injuries which precedes this study is unable to determine whether some groups of individuals who experience high injury rates are themselves 'accident prone', or are more likely to be employed in 'high risk' jobs. In this study we attempt to unravel this puzzle using a statistical technique that can identify the risk of workplace injury associated with the effects of specific personal characteristics from those which relate to the nature of the job.

It is more than just curiosity which motivates this research. The shift away from agriculture and manufacturing to an economy dominated by the service sector has undoubtedly been the greatest change in the structure of British employment over the last century. In 1991 agriculture, mining and quarrying accounted for only 4% of all employment, compared with 8% in 1951 and 14% in 1901. Accompanying this shift has been the continuing increase in the female employment rates. In 1991 46% of working age women were in employment, compared with 35% in 1951 and 32% in 1901. In recent years these changes have been coupled with changes in working patterns. There are now more workers in part-time jobs and in self-employment. All of these changes can affect the overall rate of workplace injury. Using projections of workforce trends up to 2006 in conjunction with a detailed breakdown of workplace injury rates in the 1990s we estimate how these continuing trends may impact upon future workplace injury rates. We do this by drawing upon our analysis of the factors associated with the risk of injury.

In line with previous research, some expected results are confirmed in this study. These are the:

- much higher than average risks of workplace injury in certain sectors, notably mining and quarrying;
- higher than average risks of workplace injury in 'blue-collar', as opposed to 'white-collar', occupations;
- workplace injury rates for men are higher than rates for women;
- the risk of experiencing a 'reportable' workplace injury appears to be lower in smaller workplaces, a finding which was previously thought to be due to lower levels of reporting of workplace injuries by employers in smaller workplaces.

The present study sheds further light on these earlier findings and reveals a number of new and interesting relationships:

- the higher risk of workplace injury observed for males is not wholly attributable to the higher risk occupations (manual jobs) in which men work. Even after adjusting for these effects men are more likely to experience workplace injury than women;
- sectoral variations in accident rates are apparent from year to year.
 Despite this, we note that persons working in the construction sector do not experience a higher rate of injury from those who are in health and social work;
- certain occupations have a high relative risk of injury. These are: skilled metal & vehicles trades; unskilled transport occupations.
- workers employed in small workplaces (1-10 employees) have lower injury rates than those in larger workplaces, regardless of whether or not the accident is deemed 'reportable';
- the higher risk of workplace injury observed in the construction sector is associated with the high risk occupations which predominate in this sector. After taking account of occupational structure, the construction sector appears no less risky than the health and social work sector:
- workers are most likely to suffer a workplace injury during the first 12 months of employment, particularly the first 6 months in a new job. The risk of workplace injury declines as workers gain experience and job tenure increases. The growth in the use of temporary workers on short term contracts may expose a greater proportion of workers to accidents at work.

These findings suggest that the overall level of workplace injuries may be expected to rise. While employment in certain 'high risk' occupations is set to continue to decline, other trends may offset the downward influence this will exert on injury rates. To test this hypothesis we make use of a detailed forecast of employment by occupation, industry, and gender to project the change in injury rates associated with changes in occupational and sectoral structure of employment. On this basis alone we would expect a significant increase in injury rates, particularly for women and associated with the growth of their employment in personal service occupations (catering, hotel work, caring, etc). Other factors not incorporated in this projection, particularly the growth in temporary employment and the general shortening of job tenure will undoubtedly add further to the increasing risk and incidence of workplace injury.



Workplace Injuries and Workforce Trends

1. Introduction

- 1.1 This report presents findings from a detailed analysis of self-reported workplace injuries. The analysis covers a four year period and is based upon responses to questions in the Labour Force Survey (LFS).
- 1.2 In the Winter quarter (December, January and February) of each year since 1993/94, a set of questions has been included on the Labour Force Survey which enquire whether or not a respondent has had any accident at work, or in the course of their work, in the preceding year which resulted in injury. Via a statistical analysis of the responses arising from this and related questions, an assessment is made of the extent to which various characteristics of individuals and their jobs contribute towards the relative risk of workplace injury. On the basis of this analysis, and by utilising additional information on the changing composition of employment, we assess how the changing composition of the workforce is likely to affect future trends in workplace injury rates.
- 1.3 The study we have undertaken makes use of complex multivariate statistical techniques to enable us to 'separate out' the various influences on the risk of a workplace injury associated with, say, types of occupation, sector and level of qualification, or with age and length of time in a job. Because of the significant correlations between these groups of characteristics, it is often difficult to pinpoint with certainty which factors contribute most to variation in the relative risk of a workplace injury. For example, it seems reasonable to hypothesise that rates of injury are higher in the construction sector because of the type of work people undertake in this sector. After 'adjusting' for the effect of high risk occupations on the sectoral rate it is of interest to see if any sector specific effect remains to be identified. Similarly, it has been argued elsewhere (Stevens, 1992) that the higher rate of workplace injuries reported by men probably results from occupation-specific differences and the concentration of men in occupations which have a higher risk of workplace injury.
- 1.4 Statistical reports derived from complex procedures are notoriously unreadable and, to many readers with an interest in the subject matter but not the statistical detail, they may appear confusing and difficult to interpret. The detail of this work is, therefore, relegated to an appendix. In its place we present a more graphically-orientated approach to the interpretation of these findings, comparing and contrasting both the traditional approach (cross-tabulation of injury rates with certain variables of interest) with the results obtained from the multivariate analysis.
- 1.5 The plan of this report is as follows. Section Two covers the main data issues, including the definition of workplace injury rates, the nature of the information on workplace injury rates collected in the Labour Force Survey and problems stemming from the reporting period used in the LFS. Section Three presents

information on trends in injury rates over the four year period covered by this investigation. Section Four introduces the findings from the multivariate analysis, while Section Five concludes with details of the methodology applied in developing a forecast of injury rates from the situation prevailing in the mid 1990s to the middle of the next decade, based upon some of the key findings from our analysis.

2. Data Issues

- 2.1 There exist two official sources of information on workplace injuries. Under the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1985 (RIDDOR), employers have a duty to report injuries resulting in an absence from normal work for more than three days. Not all workplace injuries have to be reported¹. The main exception is the non-reporting of road traffic accidents involving people travelling in the course of their work, as these are covered by road traffic legislation. In 1990 the Health and Safety Executive (HSE) sponsored a set of detailed questions covering workplace injury on the Labour Force Survey (LFS). Analysis of these data (Employment Gazette, 1992) confirmed concerns expressed by the HSE that non-fatal injuries are substantially under-reported by employers in official statistics derived from the 1985 reporting requirement.
- 2.2 Since 1993 a set of specially commissioned questions on workplace injuries has been included in the Winter quarter (December to February) of the Labour Force Survey (LFS). The LFS is a rich data source providing information on individuals' jobs as well as their personal characteristics. The breadth of the information covered in the LFS makes it a useful source from which to gain a better understanding of the factors associated with the risk of an individual suffering a workplace injury. The questions relating to workplace injuries collect information on the preceding 12 month period. These estimates are likely to underestimate the actual number of accidents occurring in a 12 month period due to both recall error and the fact that information is only collected on one injury per respondent.
- 2.3 Survey respondents are asked whether they had been injured in a work-related accident in the previous 12 months, whether any such injury was caused by a road traffic accident and how soon after the accident they were able to return to work. The information collected from these questions can be used to compute injury rates from all work-related accidents and injury rates resulting from 'reportable' work-related accidents. 'Reportable' work-related accidents are non-road accidents resulting in over 3 days of absence from normal work.
- 2.4 Employer-provided information on a work-related injury reported under RIDDOR collects detailed information on the kind of accident that occurred and the nature of injuries sustained. This information is not collected in the LFS, so the analysis presented here is restricted to an examination of the

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See *Health and Safety Statistics 1995/96* for a complete list of the exceptions that apply.

correlations which exist between the occurrence of a work-related accident, the characteristics associated with an individual's job and their personal characteristics. Previous research in this area suggests that there are features of particular jobs (occupation, sector etc) and personal characteristics of individuals (age, gender etc) that contribute to the probability of an individual experiencing a workplace injury. The specific relationship between various features of jobs and personal characteristics and the extent to which they separately contribute to the risk of workplace injury is termed the 'risk factor' associated with that feature or characteristic.

- 2.5 The LFS is a quarterly household survey² covering approximately 60,000 households in the United Kingdom. Each quarter, information is collected from approximately 65,000 workers either by personal interview, a telephone interview or through a proxy respondent. Around one-third of all workers recorded in the LFS provided information through a proxy respondent. The quality of information provided by proxy respondents is considered to be of a generally acceptable level. However, in some areas it has been shown that proxy respondents under-report the incidence of events and that such under-reporting is evident over fairly short recall periods (Arulampalam *et al.*, 1998). Due to the length of the recall period required in response to the accident questions and the nature of the information required the issue of proxy response will need to be addressed in any statistical modelling work.
- 2.6 Many LFS respondents will not have remained in the same job over the 12 month period used in the recording of work-related accidents. Workers sustaining an injury may be more or less likely to have changed jobs after an accident (or even changed status of economic activity) than other workers. To compute injury rates by a range of characteristics requires considerable recoding of the data to identify the job in which an accident occurred.³ Due to the detailed information on job characteristics required in the statistical modelling, in section 4, it is necessary to restrict the sample to workers who suffered a workplace injury in their current main job.
- 2.7 Injury rates are calculated as the number of people who had a work-related accident that resulted in an injury in the preceding 12 months as a proportion of all people currently in employment. Using information in the LFS it is possible to identify whether an accident occurred in an individual's current main job, current second job, a different job three months ago or their last job if the person is not currently in employment but has been in the previous 12 months. This provides a fairly accurate estimate of injury rates by job characteristics.

Prior to 1992 the LFS was conducted annually from 1984 and bi-annually between 1975 and 1983

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If a respondent sustained an injury in a job other than their current main or second job they are required to indicate which job they were doing at the time of their injury. It is possible to identify employment characteristics of some of the previous jobs in other sections of the LFS.

3. Trends in injury rates Winter 1993/94 –Winter 1996/97

- 3.1 This section focuses on trends in the unadjusted injury rates recorded in the LFS between Winter 1993/94 and Winter 1996/97. The term 'unadjusted' is used to describe the injury rate recorded via the LFS for particular groups of workers, before any adjustment is made for the interactions between 'risk factors'. Variations in injury rates across seven dimensions are explored: three relate to individual characteristics (gender, age and level of education), three are employment-related variables (workplace size, industrial sector, occupation) and region of residence. Injury rates are computed separately for all workplace injuries, workplace injuries excluding road traffic accidents and reportable workplace injuries for workers living in Great Britain. This section uses weighted data and begins by looking at the variations in injury rates according to the three measures of injury employed. The number of workplace injuries recorded for some of the sub-groups are very small (see Appendix 1 for the actual number of injuries recorded for each group in the unweighted data). Consequently, changes in injury rates for some sub-groups over this four year period can appear to be volatile.
- 3.2 Unadjusted differentials in injury rates take no account of differences between groups which arise due to the characteristics of individuals who occupy these groups. For example, if men are more likely to be employed in high risk occupations than women, a higher male injury rate may be an artefact of this difference in the structure of employment rather than an inherent difference between men and women in the risk of workplace injury they face. The statistical modelling in the next section is designed to identify and separate the risk factors associated with personal and employment characteristics.
- 3.3 Injury rates are typically expressed as the number of injuries per thousand employed persons. Overall injury rates (Table 3.1), injury rates excluding road traffic accidents (Table 3.2) and reportable injury rates (Table 3.3) recorded in the LFS show a slight downward trend over the four years 1993/94 to 1996/97, with the highest injury rates (according to all three measures) observed in 1993/94.
- The vast majority of all workplace injuries do not result from road traffic 3.4 Figure 3.1 shows injury rates by accidents (92 per cent in 1996/97). occupation according to the type of injury (all workplace injuries, workplace injuries excluding road traffic accidents and reportable workplace injuries). The number of workplace injuries resulting from road traffic accidents as a proportion of all workplace injuries varies between occupations. proportion of all workplace injuries resulting from a road traffic accident is above average in security occupations, other associate professionals, office based managers, professional occupations and health associate professionals. A particularly high proportion of workplace injuries in high level sales occupations result from road traffic accidents. This probably reflects the fact that this occupation group is dominated by sales representatives, many of whom are likely to be exposed to a higher risk of road traffic accidents because of the nature of their work.

12.0 8.0 Injury rate ■ all injuries 6.0 □ non-road injuries ☑ reportable injuries 4.0 2.0 tadle trade Meday Sales and Seri Lienantay Tanés "Service Occupe HIOT Level Other elem OK. Occupation

Figure 3.1: Workplace injury rates

- 3.5 One third of all workplace injuries in 1996/97 are estimated to be reportable under RIDDOR and 37 per cent of all workplace injuries excluding road traffic accidents are reportable. The proportion of non-road workplace injuries that are reportable varies between industries and occupation groups. Workers in hotels & restaurants have the lowest share of injuries that are reportable (23 per cent) in contrast with the highest share found in health & social work (43 per cent). Only 19 per cent of non-road workplace injuries suffered by professionals are reportable compared with three quarters of all workplace injuries suffered by workers in elementary transport occupations.
- 3.6 Comparisons with RIDDOR statistics shows that *actual* reporting rates also vary significantly by sector. Assuming that the LFS-based rates give a reasonably accurate representation of the industrial distribution of workplace injuries, reporting rates vary from about 80 per cent in the utilities to 10 per cent in finance and business (HSE, 1996 p.52).
- 3.7 Men appear nearly twice as likely to suffer any type of workplace injury than women. This finding is common across all four years.
- 3.8 Workers aged 16-19 or over 60 years are the least likely to suffer an injury, age variations in reportable workplace injuries are shown in Figure 3.2. The highest injury rates are found amongst workers aged 20-24 years. After the age of 25 injury rates generally decline with age. There appears to be a general downward trend in injury rates within age groups (injury rates in the 55-59 age group are not stable across the four years but no discernible trend is visible).

Table 3.1: All workplace injury rates

	1993/94	1994/95	1995/96	1996/97
All	4.7	4.5	4.2	4.4
Gender				
Male	5.9	5.6	5.4	5.5
Female	3.2	3.1	2.8	3.1
Age Group				
16-19 years	4.9	4.3	3.7	4.7
20-24 years	5.8	5.3	5.4	5.9
25-24 years	5.3	5.2	4.6	4.8
35-44 years	4.6	4.5	4.2	4.3
45-54 years	4.2	4.2	3.9	3.9
55-59 years	4.0	3.4	4.4	4.1
60+ years	2.7	2.8	2.6	2.9
Qualifications				
Degree and above	2.2	2.3	2.0	2.1
O level to degree	5.0	4.8	4.6	4.8
Up to O level	5.9	5.9	5.1	5.9
None	4.7	4.2	4.2	4.1
Region of Residence				
England	4.6	4.5	4.2	4.4
Wales	5.2	4.4	4.9	4.7
Scotland	4.8	4.2	3.8	4.1
Workplace Size				
1-10	3.9	3.5	3.3	3.7
11-24	4.3	4.6	4.0	4.3
25 or more	5.1	4.9	4.6	4.8
Occupation				
Office based managers	1.8	2.1	1.8	1.9
Other managers	4.0	4.0	3.5	4.0
Professionals	2.6	2.7	2.4	2.1
Health associate professionals	4.7	4.8	4.4	4.7
Other associate professionals	3.7	2.9	2.4	2.7
Clerical	2.1	2.5	1.7	2.1
Metal and vehicle trades	11.6	9.1	11.6	10.8
Textile trades	4.9	3.8	3.3	4.5
Other trades	8.3	7.2	7.9	7.0
Security	13.1	10.5	10.6	11.1
Hairdressers and related	0.9	2.1	2.8	1.3
Other service occupations	5.3	5.2	4.9	5.4
High level sales	2.2	3.6	2.0	3.0
Other sales	3.6	3.6	3.1	3.3
Operatives	7.6	7.5	7.7	8.3
Elementary sales and service	4.6	4.5	3.7	4.8
Elementary transport	11.7	11.2	11.6	10.4
Other elementary	8.7	8.7	7.6	9.0
Industry Sector	6.0	E 7	F 0	F F
Agriculture etc	6.3	5.7	5.8	5.5
Mining Manufacturing	11.1	4.9	6.2	10.0
Manufacturing	5.8	5.6	5.4	5.5
Elect, gas & water Construction	4.8	4.1 5.7	5.0 6.5	3.8 5.8
Construction Trade	6.9 4.2	5.7 4.2	6.5 3.6	
Hotels & restaurants	4.2	4.2 4.5	3.6 4.6	4.0 5.0
Transport	6.0	4.5 6.3	4.6 5.7	5.0 6.8
Financial services	2.4	2.2	5.7 2.1	2.2
Public admin & educ	4.0	4.0	3.7	3.7
Health & social work	4.0	4.0 4.6	3.7 4.4	3.7 4.5
Community work	4.6	4.6 4.6	3.3	3.8
Private households	4.2	2.3	2.3	2.5

Table 3.2: Workplace injury rates excluding road traffic accidents

	4000/01	4004/0=	4005/00	4000/0=
All			1995/96	
Gender	4.4	4.2	4.0	4.1
Male	5.6	5.2	5.0	5.1
Female	3.0	2.9	2.7	2.9
Age Group	3.0	2.5	2.1	2.9
16-19 years	4.7	4.0	3.6	4.4
20-24 years	5.5	4.8	5.0	5.5
25-24 years	5.0	4.7	4.1	4.4
35-44 years	4.3	4.2	3.9	4.0
45-54 years	4.0	3.9	3.7	3.6
55-59 years	3.8	3.1	4.2	3.9
60+ years	2.7	2.7	2.4	2.7
Qualifications				
Degree and above	1.9	2.1	1.8	1.8
O level to degree	4.7	4.4	4.3	4.4
Up to O level	5.6	5.5	4.8	5.5
None	4.5	3.9	4.0	3.9
Region of Residence				
England	4.3	4.1	3.9	4.1
Wales	5.0	4.2	4.6	4.2
Scotland	4.7	4.1	3.6	3.8
Workplace Size				
1-10	3.7	3.2	3.1	3.3
11-24	4.2	4.3	3.8	4.1
25 or more	4.8	4.6	4.3	4.4
Occupation				
Office based managers	1.5	1.8	1.4	1.6
Other managers	3.8	3.7	3.2	3.7
Professionals	2.4	2.5	2.2	1.9
Health associate professionals	4.5	4.4	4.1	4.2
Other associate professionals Clerical	3.4 2.1	2.5 2.3	2.3 1.7	2.3 2.0
Metal and vehicle trades	11.2	2.3 8.9	11.2	10.5
Textile trades	4.9	3.8	3.3	4.3
Other trades	7.8	6.9	7.5	6.5
Security	11.8	9.7	9.4	10.1
Hairdressers and related	0.7	1.7	2.1	1.0
Other service occupations	5.1	4.8	4.7	5.1
High level sales	1.6	2.6	1.8	1.7
Other sales	3.4	3.4	3.0	3.2
Operatives	7.2	6.9	7.1	7.6
Elementary sales and service	4.4	4.4	3.6	4.7
Elementary transport	10.6	10.5	11.6	9.5
Other elementary	8.2	8.0	7.2	8.4
Industry Sector				
Agriculture etc	6.0	5.5	5.5	5.4
Mining	10.3	4.5	6.2	9.7
Manufacturing	5.6	5.4	5.2	5.3
Elect, gas & water	4.6	3.9	4.8	3.5
Construction	6.6	5.3	6.1	5.4
Trade	4.0	3.9	3.4	3.6
Hotels & restaurants	4.3	4.3	4.4	4.9
Transport	5.3	5.5	4.9	5.9
Financial services	2.1	1.8	1.9	2.1
Public admin & educ	3.7	3.7	3.4	3.3
Health & social work	4.6	4.3	4.2	4.1
Community work	4.1	4.1	3.0	3.5
Private households Extra territorial	4.0	2.3	2.3	2.0
Extra territorial	0.0	2.5	0.0	0.0

 Table 3.3:
 Reportable workplace injury rates

	•	•		•
		1994/95		
AII	1.7	1.5	1.5	1.5
Gender				
Male	2.2	1.9	1.9	1.9
Female	1.1	1.0	1.1	1.1
Age Group				
16-19 years	1.6	1.2	0.8	1.1
20-24 years	2.1	1.9	1.9	1.9
25-24 years	1.8	1.6	1.5	1.6
35-44 years	1.7	1.5	1.6	1.6
45-54 years	1.7	1.5	1.4	1.4
55-59 years	1.7	1.3	1.9	1.5
60+ years	1.0	1.0	1.0	1.1
Qualifications			0.4	
Degree and above	0.5	0.4	0.4	0.4
O level to degree	1.7	1.6	1.6	1.6
Up to O level	2.4	2.3	2.1	2.2
None	2.2	1.6	1.8	1.6
Region of Residence	1	, -	4.5	4.5
England	1.6	1.5	1.5	1.5
Wales	2.0	1.6	1.9	1.9
Scotland	2.1	1.7	1.6	1.6
Workplace Size	1	4.0		4.4
1-10	1.2	1.0	1.1	1.1
11-24	1.6	1.4	1.1	1.3
25 or more	2.0	1.8	1.7	1.7
Occupation	0.5		0.4	0.5
Office based managers	0.5	0.4	0.4	0.5
Other managers Professionals	1.2 0.7	1.1 0.6	0.8 0.5	1.4 0.3
Health associate professionals	1.6	1.6	1.9	1.5
	1.3	0.6	0.9	0.8
Other associate professionals Clerical	0.8	0.6	0.9	0.8
Metal and vehicle trades	4.3	3.0	4.1	4.0
Textile trades	2.0	1.1	0.9	1.8
Other trades	2.9	2.6	3.0	2.4
Security	3.8	3.2	4.0	3.5
Hairdressers and related	0.2	0.3	0.2	0.0
Other service occupations	2.2	2.0	1.7	1.9
High level sales	0.4	1.1	0.6	0.7
Other sales	1.3	1.2	1.2	1.1
Operatives	3.3	3.3	3.1	3.0
Elementary sales and service	1.7	2.0	1.8	1.9
Elementary transport	5.9	5.3	6.8	7.3
Other elementary	3.9	3.4	2.7	3.6
Industry Sector				
Agriculture etc	2.0	2.0	2.2	2.2
Mining	4.2	0.6	2.8	3.4
Manufacturing	2.2	2.1	1.9	1.9
Elect, gas & water	2.2	1.5	1.5	1.5
Construction	3.0	2.2	2.7	2.0
Trade	1.4	1.3	1.3	1.4
Hotels & restaurants	1.2	1.6	1.3	1.1
Transport	2.2	2.4	2.2	2.4
Financial services	0.7	0.6	0.7	0.7
Public admin & educ	1.2	1.1	1.1	1.2
Health & social work	2.1	1.7	1.8	1.8
Community work	1.9	1.5	1.0	1.3
Private households	1.5	1.1	1.3	0.5
Extra territorial	0.0	0.0	0.0	0.0

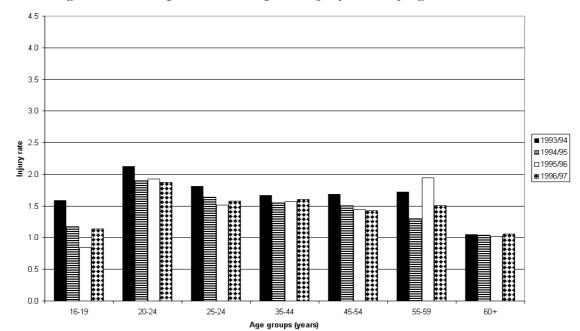


Figure 3.2: Reportable workplace injury rates by age

- 3.9 Unsurprisingly, highly qualified workers are less likely to suffer a workplace injury than workers with lower levels of qualifications. Workers with no qualifications have lower injury rates than those with low level qualifications (for reportable injury rates by level of qualification see Figure 3.3). This could result from the fact that workers with no qualifications are concentrated in the older age groups, given that few young people now leave school with no qualifications. Workers with intermediate level qualifications (O level (or equivalent) up to first degree) are three times as likely to suffer a reportable workplace injury and twice as likely to have any work-related accident than highly qualified workers (first degree or above). These differentials are relatively stable over time.
- 3.10 Regional differentials in work-related injuries fluctuate over time (Figure 3.3). Workers living in London are least likely to have a work-related injury or a reportable workplace injury in all four years. Workers in workplaces 25 or more employees are more likely, than workers in smaller workplaces, to suffer any type of work-related injury (Figure 3.3 and Tables 3.1, 3.2 and 3.3).

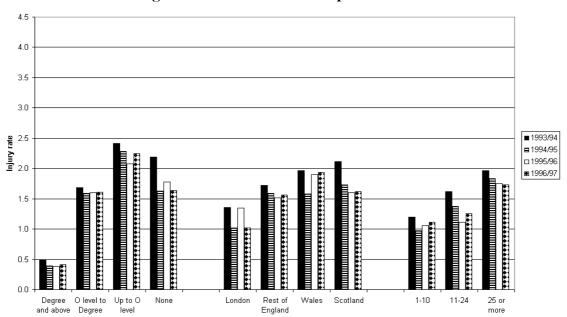


Figure 3.3: Reportable workplace injury rates by level of education, region of residence and workplace size

- 3.11 Different risks of injury are associated with occupation groups. Workers in security, elementary transport, metal & vehicle trades, other elementary occupations, other trades and operatives are most likely to have a work-related injury (Figure 3.4). The high injury rates found amongst workers in elementary transport occupations are not just a result of the higher exposure to road traffic accidents, given that occupation group records the highest reportable workplace injury rates (road traffic accidents are not reportable) (Table 3.3). The lowest injury rates are found in occupations which can largely be described as 'office jobs' (office based managers, clerical occupations, sales, professionals, hairdressers etc).
- 3.12 Some industrial sectors, particularly those involving heavy manual work, are known to have higher injury rates (Figure 3.5 and Tables 3.1, 3.2 and 3.3). Construction, transport, agriculture and manufacturing have the highest injury rates (all and reportable injuries). Injury rates are high and very volatile in the mining and quarrying sector a result which could derive from the small sample of workers employed in this sector. Work-related injuries are least likely to occur in financial services.

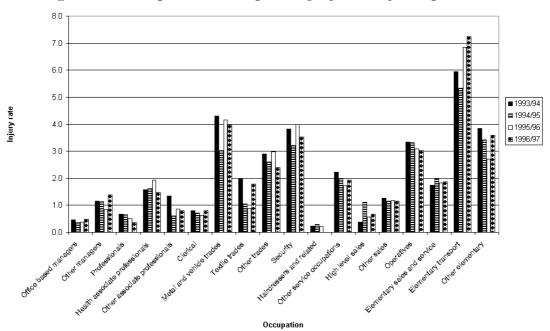


Figure 3.4: Reportable workplace injury rates by occupation

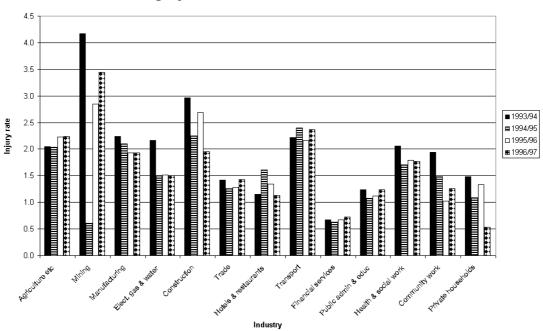


Figure 3.5: Reportable workplace injury rates by industry of employment

- 3.13 Official statistics on injury rates do not usually report rates by job tenure. There are a number of reasons why this information is of interest. Changes in injury rates as job tenure increases can show how experience affects the risk of injury. Recent trends in job tenure, indicating a continuing decline in average job tenure, have implications for future trends in injury rates. If injury rates are higher for employees with shorter job tenures than for employees with longer job tenures, a fall in average job tenure may lead to an increase in injury rates.
- 3.14 One of the reasons why injury rates are not reported by job tenure using LFS data is that the information collected on job tenure is not necessarily related to the job in which the recorded injury occurred. In the LFS job tenure is only recorded for an individual's main job at the time of the survey. For this reason injury rates can only be calculated in relation to an individual's main job at the time of the survey. These rates differ therefore from the rates computed in tables 3.1, 3.2 and 3.3⁴.
- 3.15 Table 3.4 shows the injury rates (all workplace injuries) by job tenure. With the exception of individuals with job tenure less than one year, injury rates fall as job tenure increases. The relatively low injury rates in the two shortest categories of job tenure are likely to reflect differences in exposure to workplace accidents. The question covering workplace injuries in the LFS refers to the last 12 months. Individuals who have experienced a workplace accident in their current job and have been in their current job for less than 12 months consequently have a shorter time for which they are at risk of suffering a workplace injury.

Table 3.4: Injury rates (all workplace injuries) by job tenure

Job tenure	Injury rate
Less than 6 months	2.0
6-11 months	3.7
12 months to less than 5 years	4.2
5 years to less than 20 years	3.5
20 years or more	3.2

3.16 We explore this issue of 'exposure time' further via a detailed analysis of injury rates for those who have been employed in their current job for less than one year. Table 3.5 shows their injury rates by the length of job tenure.

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The sample used for the statistical modelling is also restricted in this way.

Table 3.5: Injury rates adjusted for time spent in a job

				Adjustment for time exposure		
Job tenure (months)	Workplace injuries	Workers	Injury rate	Adjustment factor	12 month equivalent injuries	12 month equivalent injury rate
<1	7	681	1.0	x24	168	24.7
1	17	1134	1.5	x12	204	18.0
2	20	1033	1.9	х6	120	11.6
3	26	1348	1.9	x4	104	7.7
4	28	1330	2.1	x3	84	6.3
5	40	1286	3.1	x2.4	96	7.5
6	36	984	3.7	x2	72	7.3
7	31	852	3.6	x1.7	53	6.2
8	39	870	4.5	x1.5	59	6.7
9	28	790	3.5	x1.3	36	4.6
10	26	760	3.4	x1.2	32	4.1
11	24	680	3.5	x1.1	26	3.9
<12	322	11748	2.7	x1	1054	9.0

The right hand side of Table 3.5 shows the affect of adjusting injury rates for the time spent in a job (exposure). The adjustment used is fairly crude but illustrates the point well. The adjustment process computes the 'equivalent 12 month injury rate' based on the assumption that individuals in each tenure group would sustain the same injury rate for a full 12 month period. For example, one percent of individuals who have been in their current job for less than 1 month suffer a workplace injury. The final column shows that if this group of workers continued to sustain this rate of workplace injury over a full 12 month approximately one-quarter would suffer a workplace injury, compared with an annual rate of 4.2 per cent recorded among workers who have been in their job between 12 months and five years. This illustrates well the very high risk of suffering a workplace injury during the first month of employment. The steady decline in the annualised workplace injury rate illustrates how the risk of workplace injury declines with work experience along with the very high risks in the first few months of employment.

3.17 Hours of work is another variable which needs to be adjusted for differences in exposure to workplace injuries. The growth in part-time jobs, many of which are for a low number of weekly hours, means that variation in injury rates by hours of work is particularly of interest from a policy perspective. In this section we consider injury rates (all workplace injuries) 1996/97 for illustrative purposes only. Table 3.6 shows the injury rates unadjusted for time spent in employment (exposure).

Table 3.6: Injury rates (all workplace injuries) by usual weekly hours of work

Usual weekly hours of work	Injury rate
0-15	1.5
16-29	2.4
30-49	3.8
50-59	4.5
60+	5.0

These raw injury rates show that the risk of workplace injury increases with hours of work. This result is not surprising because it reflects the greater exposure faced by individuals who work longer hours.

3.18 One way of adjusting these rates to reflect exposure is to compute the equivalent rate for a set number of hours. We do this by computing the average number of hours for each category (the mid-point) and computing the adjustment factor required to estimate the equivalent risk of individuals working a 39.5 hour week. Table 3.7 shows the results from this adjustment process.

Table 3.7: Injury rates adjusted for weekly hours spent in a job

Usual weekly hours of work	Average in band	Raw injury rate	Adjustment factor	Equivalent injury rate
0-15	7.5	1.5	5.3	8.0
16-29	22.5	2.4	1.8	4.3
30-49	39.5	3.8	1.0	3.8
50-59	54.5	4.5	0.7	3.2
60+	64.5	5.0	0.6	3.0

The results from the 'exposure adjusted' injury rates show that individuals who work a low number of weekly hours have particularly high injury rates and that equivalent injury rates fall as the number of weekly hours worked increases.

4. Statistical analysis of workplace injuries

4.1 The preceding section illustrates some of the interesting variations that exist when workplace injury statistics are analysed by various characteristics of the workforce. Some of these variations are well established from earlier research (eg the variation in injury rates by industry of employment and the variation by workplace size). Others are revealed in more detail than has previously been

the case (eg the variation in injury rates by occupation, hours of work and job tenure).

- 4.2 A problem underlies these variations, in that it is not clear what *separate and additional* contribution is made to our understanding of variations by using these different dimensions to analyse injury rates. For example, is the variation by industry of employment simply a consequence of the different occupational structure of various industries, with so-called 'high risk' sectors reflecting a preponderance of 'high risk' occupations within them? Is the difference in injury rates between men and women a consequence of the fact that men tend to predominate in manual occupations which carry a higher risk of workplace injury?
- 4.3 To answer these questions we employ a multivariate statistical technique which allows us to estimate the separate systematic influence of these factors on the 'risk' of a workplace injury. The concept of 'risk' is fundamental to the interpretation of the results presented in this section. Before presenting these results, we describe what, in technical terms, we mean by risk and how we estimate risk factors within a multivariate statistical model.
- 4.4 Most people are familiar with the concept of risk as a probability. If, for example, out of a workforce of 20 million persons, 1 million had experienced some form of workplace injury in the preceding year, this could be represented as a 1 in 20 'risk' of a workplace injury. If all workplace injuries occurred as random events, everyone in employment would therefore be exposed to this same degree of risk. However, there is clearly not a uniform exposure to the risk of workplace injury. Some people work in jobs which carry a much greater risk of workplace injury than would be implied by the 1:20 average risk. Others may have personal characteristics which make them more 'risk prone'. Correspondingly, some people may face a much lower risk of workplace injury than the average.
- 4.5 To detect these 'relative' risk factors we examine a large body of data which tells us whether or not an individual has experienced a workplace injury in the preceding 12 months and contains details about the nature of each individual's job and relevant personal characteristics. Multivariate statistical modelling is a technique for determining the separate 'contribution' that each piece of information about an individual's job or their personal characteristics makes to the observed pattern of workplace injuries. These contributions to our understanding of risk factors are expressed as 'relative risk' - relative to a baseline or reference category. For example, from Table 3.1 it can be seen that the 'risk' of injury in a small workplace is 3.7 per cent or about 1 in 27, whereas in a workplace of 25 employees or more the risk appears to be higher at 4.8 per cent or approximately 1 in 21. Another way of expressing this is to say that, relative to a small workplace, persons employed in workplaces with 25 or more employees experience a 30 per cent higher risk of workplace injury. All of the results presented in this section are portrayed in this manner, showing the 'raw' or 'unadjusted' relative risks and contrasting these with the adjusted relative risks which are derived from the multivariate statistical model

and which take account of the separate contributions made simultaneously to the overall risk from a wide range of characteristics describing individuals and their jobs.

- The technique we have employed for multivariate analysis is termed *logistic* 4.6 regression. For technical reasons, risks are modelled as the logarithm of the odds⁵ of workplace injury. The modelling strategy we adopted involved a variety of stages in which we sought first to detect specific occupational influences on the risk of workplace injury using a very detailed set of occupational categories. Having identified 'risky' occupations, the occupational categories were then merged to eliminate unnecessary detail while retaining the essential differences between occupations in terms of their separate contribution to the risk of an injury. A wide range of personal and job-related characteristics were then added to this basic model, including age, gender, workplace size, qualifications, region of residence, industry sector, hours worked, type of employment contract. In addition, in earlier models we included a number of other variables which we thought would influence the relative risk of injury. These variables included long term health problems, disabilities and second job holding, but were found to be statistically insignificant and were omitted from the final model.
- 4.7 The full results from these modelling procedures are presented in Appendix Two. Workplace injuries are defined in two ways. First, 'all injuries' are defined to include any positive response to the workplace injury question (filtering out those accidents which would be classified as road traffic accidents). Second, 'reportable injuries' are defined as those injuries for which the injured person was away from work for more than three working days, given that such accidents are, in theory, reported under the regulations for the Reporting of Injuries, Diseases and Dangerous Occurrences (RIDDOR).
- In the following set of charts the 'adjusted' differentials in relative risks, 4.8 derived from the coefficients in the logistic regressions⁶, are represented as black bars. These represent the separate risk factors associated with particular characteristics having taken account of all other risk factors in our statistical model. Where these 'adjusted' differentials were found to be statistically insignificant at the 5 per cent level the bars are shaded grey⁷. The unadjusted relative risks are shown as white bars. These unadjusted risks are derived from the crosstabulations shown in the preceding section. The first set of charts show the relative risks for all workplace injuries.
- 4.9 Figure 4.1 shows the relative risk of injury by gender, age and employment tenure. Looking first at the two bars on the left hand side of this chart, these

Representing p as the risk of a workplace injury, p/(1-p) is the odds of an injury.

Taking the exponential of the coefficients from the regression results, subtracting 1 and then multiplying by 100 gives the percentage difference in the risk of injury relative to the reference category.

⁷ In other words, a bar which is shaded grey denotes that there is no significant difference between the category it represents and the 'reference' category.

show the 'adjusted' and unadjusted' relative risk of workplace injury reported by men (there are no bars shown for women, given that they are the reference category). Even after controlling for differences in characteristics and employment between men and women we identify a significant difference in their relative risk of injury. Although nearly one-quarter of the difference in risk experienced by men is due to these other factors, there remains a 20 per cent higher risk of workplace injury among men compared with women. We find no significant difference in the risk of having a workplace injury among workers aged over 25 years. Workers aged 16-24 have just over 20 per cent higher risk of injury than these older workers.

- 4.10 The length of time in a job (tenure) remains significant in the adjusted series. For employees who have been in their current job for less than one year the relative risk of injury has been adjusted to reflect differences in exposure. The LFS question asked workers to report any workplace injury that occurred within the preceding 12 months. Workers who have been employed in their current main job for less than 12 months are consequently reporting accidents over a shorter period of time. The adjustment uses the average job tenure for the two groups who are in their current job for less than 12 months (less than 6 months: 2.8 months; 6-11 months: 8.3 months) to adjust for exposure (multiplying their relative risk by $^{12}/_{2.8}$ and $^{12}/_{8.3}$ respectively). The results show that as tenure increases the risk of workplace injury declines; as employees become more experienced in their job they are less likely to suffer a workplace injury. Workers are most at risk of suffering a workplace injury in the first 6 months of their employment. Workers who have been employed between 6 and 12 months are approximately 40 per cent less likely to suffer an injury than this group, and workers employed in the same job for at least 20 years are 66 per cent less likely to suffer an injury.
- 4.11 Level of qualification remains a significant influence on the risk of suffering a workplace injury after controlling for other factors. Workers with intermediate and low level qualifications face a higher risk of workplace injury relative to those with high level qualifications and no qualifications. The low risk of workplace injuries amongst highly qualified workers observed in the unadjusted series is found to be insignificantly different from workers with no qualifications once adjustments have been made (Figure 4.2). Figure 4.2 also shows the relative risk of workplace injury by workplace size. Workers in small workplaces (1-10 employees) have a significantly lower risk of workplace injury than workers in larger workplaces.
- 4.12 There appears to be no difference in the risk of workplace injury between employees and self-employed, (Figure 4.3). Workers living in Scotland have a lower risk of workplace injury relative to England and Wales. This differential increases after adjustments have been made.
- 4.13 The exposure to risk of injury in terms of weekly hours of work has an expected and significant influence on the risk of workplace injury (Figure 4.4). Figure 4.4 shows injury rates which have been adjusted to reflect exposure. An individual who works 10 hours per week is at risk for only one-third of the

time of an individual working 30 hours. To adjust the relative risks we have computed the equivalent risk of injury associated with working a 39.5 hour week for each of the hour bands. The adjustment shows that individuals working less than 30 hours per week have higher equivalent injury rates, particularly individuals working less than 16 hours, than individuals working longer hours.

- 4.14 Whether a worker is employed on a temporary or permanent basis has no significantly influence on the risk of workplace injury. However, this is likely to be due to the high percentage of temporary workers who have been employed in their current job for less than one year (57 per cent). The higher risk of workplace injury associated with short job tenure will be picked up by the tenure variable. Workers in the private sector have a significant lower risk of workplace injury than workers in the public sector. Private sector workers have around a 20 per cent lower risk of workplace injury relative to public sector workers (Figure 4.4).
- Considerable variation in the relative risk of injury exists between occupation 4.15 groups (Figure 4.5). Adjusting the relative risk of injury for other factors (such as gender, hours of work, level of qualification, industry, etc) in some cases increases the risk of injury attributable to occupation (including textile trades, other sales, elementary sales & service) and in others decreases the risk (security, health associate professionals, operatives and elementary transport occupations). However, there remains a wide range of variation in the adjusted relative risk of injury between occupation groups. The adjusted relative risks show that workers employed in metal & vehicle trades have nearly a 500 per cent higher risk of workplace injury than workers in clerical occupations (the reference category), even after adjusting for the differences in risk found between men and women. Other occupations with a high relative risk of workplace injury include security, other elementary occupations, elementary transport occupations, operatives and elementary sales & service occupations. These occupation groups have a risk of injury 250 per cent or more higher than the risk associated with clerical occupations.
- 4.16 Figure 4.6 shows the unadjusted and adjusted relative risks of workplace injury by industry. In contrast to the occupation effects when other factors are controlled for the relative risk of injury attributable to industry of employment is considerably reduced in all industries. Relative to workers in financial services only four sectors have a 50 per cent or more higher risk of workplace injury (mining, agriculture, hotels & restaurants and health & social work). Although the unadjusted relative risks show that workers in construction have more than 150 per cent higher risk of workplace injury than workers in financial services the difference in risk between these industrial sectors is found to be insignificant in the adjusted risks.
- 4.17 The following analysis relates to the relative risk of reportable workplace injuries between sub-groups in terms unadjusted and adjusted relative risks. Contrasts are made, where relevant, with the above analysis of relative risks of all workplace injuries.

Figure 4.1: Relative risk of injury by gender, age and tenure

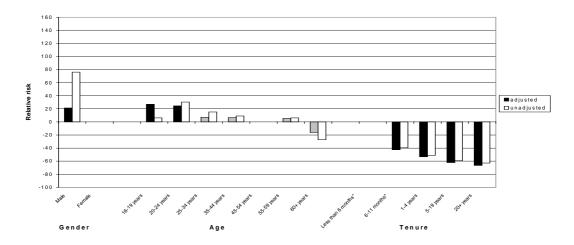


Figure 4.2: Relative risk of injury by qualification level

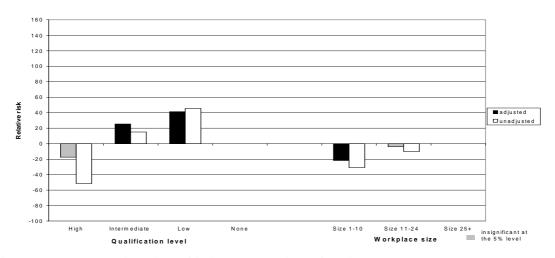


Figure 4.3: Relative risk of injury by region of residence

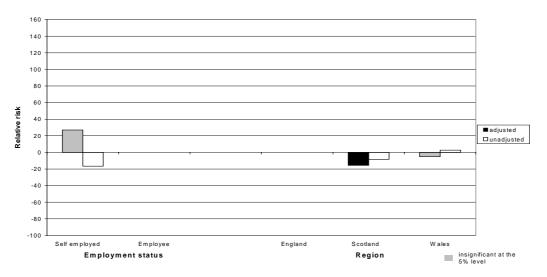


Figure 4.4: Relative risk of injury by weekly hours, contract, status and sector

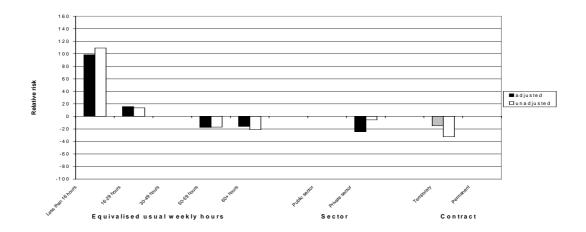


Figure 4.5: Relative risk of injury by occupation

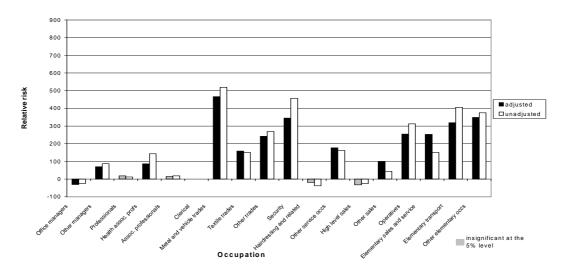
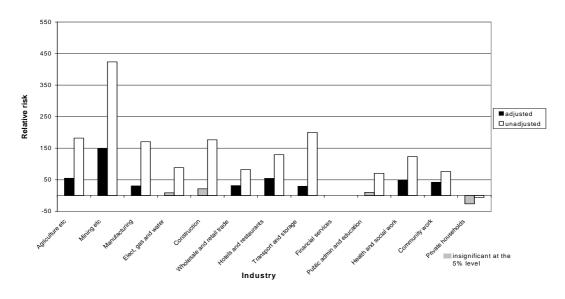


Figure 4.6: Relative risk of injury by industry and workplace size



- 4.18 After adjusting for other factors, men continue to face a higher risk of reportable injury than women (35 per cent higher) (Figure 4.7). The relative risk of injury between men and women is higher for reportable workplace injuries than for all workplace injuries. There is no statistically significant variation in the adjusted relative risk of reportable workplace injury between age groups (Figure 4.7). Job tenure under 12 months has been adjusted for time exposure (described in 4.10 above). Reportable workplace injury rates are highest for workers who have been employed in their current job for more than one year are approximately 60 per cent less likely to suffer a reportable workplace injury (Figure 4.7).
- 4.19 High level qualifications are associated with lower risks of reportable workplace injury and low level qualifications with higher risks relative to intermediate level and no qualifications (Figure 4.8). The reason why workers with low level qualifications have higher risk of injury than workers with no qualifications is unclear. Smaller workplaces (1-24 workers) are associated with a lower risk of reportable workplace injury relative to larger workplaces (25+ workers). As this finding is based on self-reporting it is not due to underreporting of workplace injuries by employers in small workplaces as was previously thought.
- 4.20 There appears to be no difference in the risk of reportable workplace injury between employees and self-employed workers. Although the unadjusted data shows regional variation in the relative risk of reportable workplace injury there is no statistically significant regional variation in the adjusted relative risks (Figure 4.9).
- 4.21 Figure 4.10 shows the adjusted and unadjusted relative risks in reportable workplace injuries by hours of work, contract type and sector. Relative risks by equivalised hours of work once again shows the high risk associated with individuals working less than 30 hours per week, particularly less than 16 hours. Workers in the private sector have a lower adjusted risk of reportable workplace injury relative to pubic sector workers. In contrast to risk of all workplace injuries, temporary workers have a significantly lower risk (60 per cent lower) of reportable workplace injury relative to workers on permanent contracts. However, as noted earlier, the majority of temporary workers have been employed in their current job for less than one year (57 per cent). The risk of workplace injury is particularly high for this group but will be picked up by the tenure variables.
- 4.22 The very high risk of reportable workplace injury faced by workers in elementary transport occupations remains after adjustments for other factors have been made (Figure 4.11). Workers in this occupation group face a 675 per cent higher risk of reportable workplace injury relative to workers in clerical occupations, and around 300 per cent higher risk than workers in metal & vehicle trades and other elementary occupations (the second highest risk occupations). The lowest risks of reportable workplace injury are found

Figure 4.7: Relative risk of reportable injury by gender, age and tenure

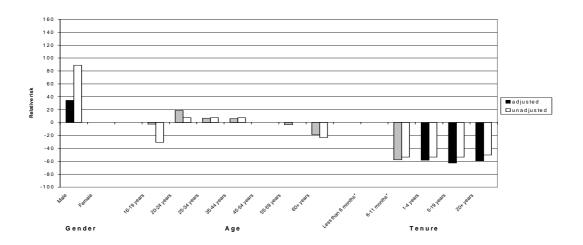


Figure 4.8: Relative risk of reportable injury by level of qualification

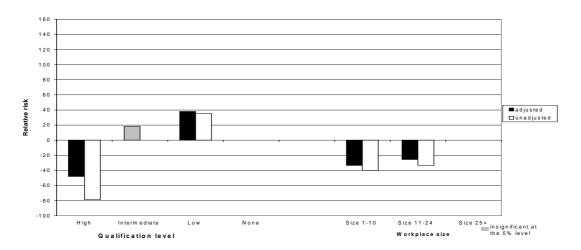


Figure 4.9: Relative risk of reportable injury by region of residence

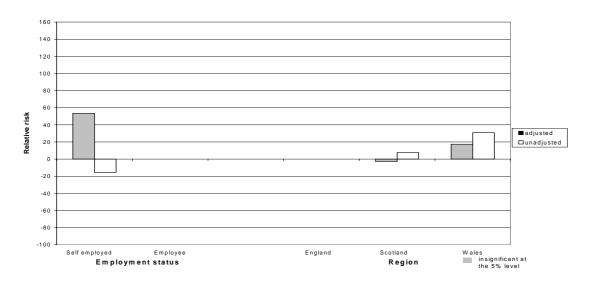


Figure 4.10: Relative risk of reportable injury by hours, contract, status and sector

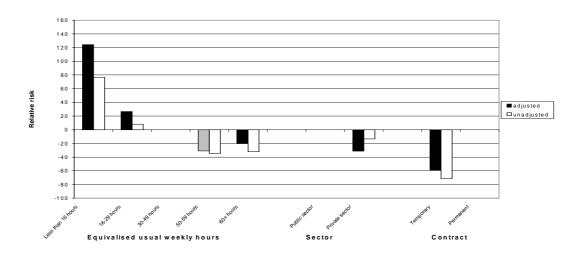


Figure 4.11: Relative risk of reportable injury by occupation

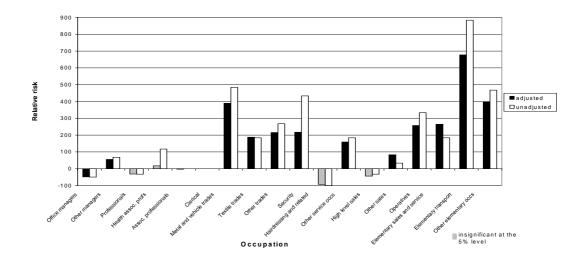
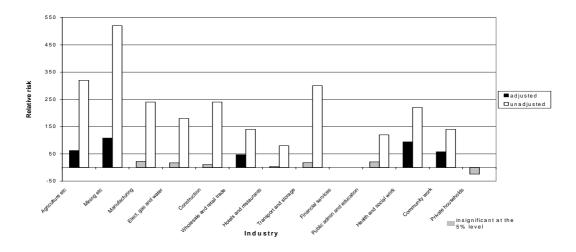


Figure 4.12: Relative risk of reportable injury by industry and workplace size



- among office managers, followed by professionals, health associate professionals, associate professionals clerical workers, hairdressing & related occupations and high level sales occupations.
- 4.23 The relative risk of reportable workplace injury observed in the unadjusted data between industrial sectors (Figure 4.12) nearly disappears in the adjusted relative risks. Mining, agriculture, wholesale & retail trade, health & social work and community work are the only industrial sectors that have a higher risk of reportable workplace injury than financial services. No industrial sector has a statistically significant lower risk of reportable workplace injury relative to financial services. The variations in relative risks in the unadjusted data can, therefore, be attributed to other factors such as occupation, gender, qualifications, hours of work.
- 4.24 Injury rates for small sub-groups can vary year-by-year. To validate our findings for 1996/97 we repeated the regression analysis using 1995/96 data. The results from these regressions can be found in Appendix Two. Although there was some variation in relative risks, most notably in small sub-groups such as mining, the overall pattern remains largely unchanged.
- 4.25 In all the regressions we included a variable indicating whether information was provided via a proxy respondent. This was generally found to have a negative and significant effect. This result has not been included in the charts but can be found in Appendix Two.
- 4.26 It may be the case that the influence of some factors vary between men and women. In the analysis reported above we included men and women in the same model with a variable identifying individual's gender. To see whether the risk of injury is influenced by different factors for men and women, we repeated the above analysis for men and women separately (regression results can be found in Appendix Two).
- 4.27 In the comparisons between the separate influences on the relative risk of all workplace injuries for men and women in 1996/97 we found that:
 - age was insignificant for women, but men aged 16-24 and 35-44 years had a significant higher risk of workplace injury relative to men aged 45-54 years;
 - women working in the private sector have lower risks of workplace injury than women working in the public sector. The difference between private and public sector is not statistically significant for men;
 - the range of injury risks by occupation for women relative to clerical
 occupations is much wider than for men. Women working in clerical
 occupations have the lowest risk of injury while for men three
 occupation groups (office managers, associate professionals and high
 level sales occupations) have lower risks of injury compared with men

in clerical occupations. This may be due to differences in the types of jobs men do in clerical occupations compared with women;

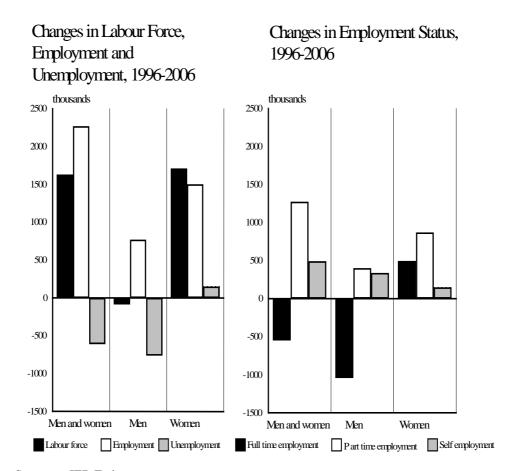
- women in textile trades have a high risk of injury compared with women in clerical occupations. For men there is no statistically significant difference in the risk associated with working in textile trades or clerical occupations. Women in other elementary occupations have the highest risk of workplace injury while men in metal & vehicle trades face the highest risk;
- there is no statistically significant variation in the risk of workplace injury for women employed in different industrial sectors. Relative to men employed in financial services men working in mining, agriculture, community work, hotels & restaurants and manufacturing have a 50 per cent or more higher risk of workplace injury;
- small workplaces (1-10 workers) are associated with a lower risk of injury for men but workplace size does not effect the relative risk of injury among women.
- 4.28 Finally, we included a number of interactive terms into the regressions (small workplace (1-10 workers) and agriculture sector; small workplace (1-10 workers) and construction sector; small workplace (1-10 workers) and hotels & restaurants; female and public administration and education sector; male and aged 16-24 years. None of these terms were found to have an additional affect on the relative risk of workplace injury or reportable workplace injury.

5. Forecasting workplace injuries, 1996-2006

- 5.1 The preceding results indicate that changes in the structure of employment are most likely to impact upon overall workplace injury rates. Given the wide variation in injury rates by occupation, trends in occupational structure are likely to impact upon the national total of workplace injuries. This is an important issue, in that the observation of a downward trend in injury rates may simply be a result of changes in the structure of employment rather than the outcome of policies and practices designed to safeguard individuals at their workplaces.
- 5.2 To gain some indication of the future movement of all workplace injuries, we make use of a detailed forecast of employment by occupation, industry and gender made by the Institute for Employment Research. Employment forecasts are developed by the IER in considerable detail, providing projections of employment by gender, occupation and industry sector. Based upon the findings in Sections 3 and 4, key dimensions are identified for the production of this forecast. Eleven occupational categories are utilised, described in Table 5.1. These categories separately distinguish most of the occupational groups shown in Figure 4.11 which have significant and varied risks of workplace injury associated with them. Eleven industrial categories

- are defined for this forecast (see Table 5.2) again distinguishing sectors which have significant and varying risks of workplace injury.
- 5.3 The projection of employment utilised for this forecast of workplace injuries is described in detail in Lindley and Wilson (1998). This projection is based upon a fairly neutral set of assumptions regarding the exchange rate, public expenditure plans and fiscal change. GDP is projected to continue to grow throughout this period, but at a lower rate than was observed in the 1990s. Figure 5.1 shows the main changes in the labour force, employment and unemployment, and by status in employment for men and women, projected from 1996 to 2006.
- 5.4 An important feature of this projection is the change in the composition of employment by industry and occupation. Employment in distribution, transport, business and miscellaneous services is expected to increase significantly over this ten year period, with a decline in the level of employment in agriculture, utilities and manufacturing. Occupational changes are most evident in the 'white collar' occupations and personal service occupations.
- 5.5 A number of factors which have been shown as important in delineating the risk of workplace injury are not explicitly modelled in this forecast. In particular, changes in working hours towards more part-time working will tend to reduce overall injury rates (even though the 'exposure risk' is greater). Any continuing decline in job tenure will have an opposite influence on trends in injury rates. While we have insufficient data to model these influences directly, it seems likely that they may have a significant effect on the overall estimates given in this report.

Figure 5.1



Source: IER Estimates

- In developing a forecast of workplace injuries, *no account has been taken of future changes in injury rates*. These rates have been determined from the four Labour Force Surveys interrogated in this study, providing an average view of LFS-based injury rates prevailing in the period 1993/94 to 1996/97. This represents a conservative view of changes in injury rates, given that both RIDDOR and the LFS reveal a continuing decline in reportable non-fatal injuries over the first half of the current decade. Under this assumption the projection of workplace injuries reveals only the expected effect of changes in the structure and level of employment over the ten year period.
- 5.7 Table 5.3 indicates that, assuming no change in injury rates, reported injuries are expected to rise between 1996 and 2006. There are two main reasons for this. First, the continuing expansion of employment in 'white collar' occupations more than offsets the decline in employment in the primary and manufacturing sector. While injury rates are higher in the latter sectors, the scale of the expansion in employment in white collar occupations is such that this more than outweighs the decline in employment in elementary occupations. Second, the growth of employment in personal service occupations and the associated risks of injury in this occupational area contribute significantly to the forecast increase in reportable injuries,

especially for women. Details of the forecast changes by occupational group and gender are given in Table 5.4.

Table 5.1: Occupational categories used for forecasting workplace injuries

Occupational category	SOC90 Sub-major groups
Management, professional, clerical and technical	1.1 – 4.2
Skilled engineering trades	5.2
Construction and other skilled trades	5.1, 5.3
Protective service occupations	6.1
Personal service occupations	6.2
Buyers, brokers and sales representatives	7.1
Other sales occupations	7.2
Industrial plant and machine operators, assemblers	8.1
Drivers and mobile machine operators	8.2
Other occupations in agriculture, forestry and fishing	9.1
Other elementary occupations (exc. Agriculture)	9.2

Table 5.2: Industrial categories used for forecasting workplace injuries

Industrial category	SIC92 Sections
Agriculture, forestry and fishing	A, B
Mining and quarrying	C
Manufacturing, electricity gas and water supply	D, E
Construction	F
Wholesale and retail trade, motor vehicle repair	G
Hotels and restaurants	Н
Transport, storage and communication	I
Financial intermediation, real estate, renting and business activities	J, K
Public administration, education	L, M
Health and social work	N
Other community, personal services, private households	O, P, Q

Table 5.3: Estimated and forecast workplace injuries, for all workplace injuries, all workplace injuries excluding road traffic accidents and reportable injuries

(thousands)

	All workplace injuries	Workplace injuries (exc. road accidents	Reportable injuries
Estimated ¹ number of workplace injuries, 1996	1,092.6	1,022.6	378.8
Forecast ² number of workplace injuries, 2006	1,152.6	1,078.3	395.4

Notes:

- (1) Applying average rates recorded in 1993/94 to 1996/67 LFS, disaggregated by gender, industry and occupation, to 1996 estimates of employment (Lindley and Wilson, 1998).
- (2) Applying same injury rates as in (1) above to forecast of employment by industry and occupation (Lindley and Wilson, 1998).

Table 5.4: Forecast change in reportable injuries, 1996-2006 by occupation groups and gender

(thousands)

	Forecast change in reportable injuries, 1996-2006		
Occupation groups	Males	Females	Total
1.1 – 4.2	+5.1	+5.9	+11.0
5.2	-4.2	+0.3	-3.9
5.1, 5.3	-4.5	-0.8	-5.3
6.1	+0.7	+0.5	+1.2
6.2	+4.8	+11.2	+16.0
7.1	-0.6	+0.3	-0.3
7.2	+0.4	+1.6	+2.0
8.1	+1.5	+0.6	+2.1
8.2	+0.4	+0.2	+0.6
9.1	-1.5	-	-1.5
9.2	+0.6	-5.2	-4.6
Total	+2.8	+14.6	+17.4

5.8 Finally, we show in Table 5.5 the forecast change in reportable workplace injuries by countries of Great Britain. In Wales and Scotland the forecast changes in reportable workplace injuries which derive from the effect of changing employment structure are negligible, reflecting the fact that most of the rapid growth in 'white collar' occupations is located in the South East of the country.

Table 5.5: Estimated and forecast reportable injuries, 1996 and 2006 by country and gender

(thousands)

		Males	Females	Total
1996				
	England	220.9	100.3	321.2
	Wales	13.0	5.9	18.9
	Scotland	24.8	13.9	38.7
	Great Britain	258.7	120.1	378.8
2006				
	England	225.2	112.2	337.4
	Wales	12.8	6.4	19.2
	Scotland	23.4	15.4	38.8
	Great Britain	261.4	134.0	395.4
Foreca	st change 1996-20	06		
	England	+4.3	+11.9	+16.2
	Wales	-0.2	+0.5	+0.3
	Scotland	-1.4	+1.5	+0.1
	Great Britain	+2.8	+14.7	+17.5

5.9 In conclusion, we show that, if there is no decline in injury rates by occupation and industry sector over the ten year period 1996 to 2006, we would expect workplace injuries to rise by more than 5 per cent. We have also shown that a higher risk of workplace injury is associated with shorter working hours and lower job tenure. Trends towards these factors are likely to contribute further to higher overall levels of workplace injury.

References

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APPENDIX 1Table AI: Number of workplace injuries (unweighted)

	1993/94	1994/95	1995/96	1996/97
All	2912	2770	2613	2663
Gender	2912	2110	2013	2003
Male	1976	1868	1783	1778
Female	936	902	830	885
Age Group	330	302	030	003
16-19 years	153	140	123	157
20-24 years	341	294	292	293
25-24 years	858	810	707	739
35-44 years	705	690	642	652
45-54 years	592	594	571	552
55-59 years	169	148	191	174
60+ years	94	94	87	96
Qualifications	•	0.	0.	
Degree and above	179	197	175	185
O level to degree	1677	1591	1538	1612
Up to O level	511	539	490	514
None	533	436	403	341
Region of Residence			.00	
England	2484	2395	2248	2300
Wales	152	131	140	133
Scotland	276	244	225	230
Workplace Size				
1-10 workers	463	410	390	412
11-24 workers	313	337	295	311
25 or more workers	1820	1739	1624	1664
Occupation				
Office based managers	107	129	108	110
Other managers	155	151	132	145
Professionals	165	174	164	133
Health associate professionals	85	84	76	81
Other associate professionals	149	117	96	119
Clerical	196	233	163	194
Metal and vehicle trades	176	129	162	154
Textile trades	35	25	19	26
Other trades	488	411	430	375
Security	151	125	125	125
Hairdressers and related	4	9	11	4
Other service occupations	253	249	248	273
High level sales	23	37	22	31
Other sales	140	136	126	132
Operatives	442	440	457	453
Elementary sales and service	150	141	114	141
Elementary transport	30	29	26	22
Other elementary Industry Sector	157	148	132	144
Agriculture etc	75	67	65	59
Mining	31	14	65 17	24
Manufacturing	704	656	637	628
Elect, gas & water	28	22	24	15
Construction	302	244	267	236
Trade	417	408	349	386
Hotels & restaurants	116	123	128	132
Transport	227	243	223	250
Financial services	197	188	178	192
Public admin & educ	343	336	306	304
Health & social work	322	315	301	307
Community work	131	143	108	119
Private households	18	8	9	9
Extra territorial	0	1	0	0

Source: Labour Force Surveys (Winter quarters)

Table AII: Number of non-road workplace injuries (unweighted)

	1993/94	1994/95	1995/96	1996/97
All	2747	2570	2446	2457
Gender				
Male	1855	1722	1659	1632
Female	892	848	787	825
Age Group				
16-19 years	149	130	120	149
20-24 years	323	269	275	272
25-24 years	802	739	643	677
35-44 years	662	645	608	606
45-54 years	558	561	541	502
55-59 years	161	135	181	163
60+ years	92	91	78	88
Qualifications				
Degree and above	159	178	159	160
O level to degree	1579	1474	1439	1483
Up to O level	484	501	460	480
None	514	410	383	325
Region of Residence				
England	2335	2208	2102	2127
Wales	146	125	134	119
Scotland	266	237	210	211
Workplace Size				
1-10 workers	440	373	365	371
11-24 workers	301	314	277	291
25 or more workers	1724	1637	1525	1553
Occupation				
Office based managers	91	109	87	95
Other managers	145	141	120	133
Professionals	154	161	149	118
Health associate professionals	81	77	72	72
Other associate professionals	136	102	92	102
Clerical	191	216	155	180
Metal and vehicle trades	170	125	156	150
Textile trades	35	25	19	25
Other trades	463	393	411	349
Security	136	116	112	113
Hairdressers and related	3	7	8	3
Other service occupations	247	233	239	257
High level sales	17	27	19	18
Other sales	134	128	121	127
Operatives	419	405	421	419
Elementary sales and service	145	139	112	139
Elementary transport	27	27	26	20
Other elementary	148	137	125	136
Industry Sector				
Agriculture etc	71	65	61	57
Mining	29	13	17	23
Manufacturing	678	630	614	602
Elect, gas & water	27	21	23	14
Construction	289	226	250	219
Trade	396	380	326	350
Hotels & restaurants	113	118	124	129
Transport	200	212	193	218
Financial services	175	162	158	178
Public admin & educ	314	310	284	272
Health & social work	313	294	286	280
Community work	124	129	100	106
Private households	17	8	9	7
Extra territorial	0	1	0	0

Source: Labour Force Surveys (Winter quarters)

Table AIII: Number of reportable workplace injuries (unweighted)

	1993/94	1994/95	1995/96	1996/97
All	1064	954	940	919
Gender				
Male	727	653	626	617
Female	337	301	314	302
Age Group				
16-19 years	49	38	28	39
20-24 years	125	108	105	95
25-24 years	288	258	238	245
35-44 years	257	242	145	239
45-54 years	235	215	208	201
55-59 years	74	57	83	64
60+ years	36	36	33	36
Qualifications				
Degree and above	40	35	36	37
O level to degree	560	535	536	547
Up to O level	212	210	198	195
None	248	170	168	137
Region of Residence				
England	888	805	791	774
Wales	57	46	55	54
Scotland	119	103	94	91
Workplace Size				
1-10 workers	142	115	125	126
11-24 workers	117	101	81	91
25 or more workers	698	654	627	609
Occupation				
Office based managers	27	22	24	29
Other managers	45	44	32	50
Professionals	42	42	36	24
Health associate professionals	28	28	34	25
Other associate professionals	52	25	35	35
Clerical	73	67	59	72
Metal and vehicle trades	66	44	57	55
Textile trades	14	7	5	10
Other trades	174	148	163	129
Security	43	39	48	40
Hairdressers and related		1	1	0
Other service occupations	108	99 12	86 6	99 7
High level sales Other sales	50	44	49	47
Operatives	194	198	186	168
Elementary sales and service	58	62	55	55
Elementary transport	15	14	15	15
Other elementary	69	58	48	58
Industry Sector	00		40	30
Agriculture etc	24	24	25	24
Mining	12	2	8	8
Manufacturing	270	245	229	219
Elect, gas & water	12	8	8	6
Construction	132	96	110	80
Trade	139	124	125	138
Hotels & restaurants	31	44	37	29
Transport	83	92	84	87
Financial services	55	57	57	61
Public admin & educ	104	93	95	102
Health & social work	139	118	123	122
Community work	57	47	34	39
Private households	6	4	5	2
Extra territorial	0	0	0	0

Source: Labour Force Surveys (Winter quarter)

APPENDIX 2

Logistic Regression Results

Variable labels

		Variable labels
Gender		
	MALE	male
	REFERENCE	female
7.00		
Age	A16_19	aged 16-19 years
	A20_24	aged 20-24 years
	A25_34	aged 25-34 years
	A35_44 REFERENCE	aged 35-44 years
	A55_59	aged 45-54 years aged 55-59 years
	A60PLUS	
0		
Qualificat		degree and above
		O lev to below degree
	Q_T00	Under O lev
		no qualifications
	Q_NA	quals - no answer
Occupation		
		office managers
	O_MAN O_PROF	other managers professionals
	REFERENCE	
	O_HEALTH	health assoc. prof
		other assoc. prof
	O_METAL O TEXT	metal and vehicle textile
	O_TRADE	other trades
	O_SEC	security
	O_HAIR	hairdressers and related
	O_SERV O_HSALE	other service high level sales
	O_SALE	other sales
	O_OPER	
	O_ELEMS O_ELEMT	elementary sales
	O_ELEMT	elementary transport other elementary
	O_NA	occupation not available
a		
Sectors	S_AG	agri, forestry
	S_MINE	mining
	S_MAN	manufacturing
	S_ELEC	elec, gas and water construction
	S_CONST S WHOLE	wholesale and retail
	S_HOTEL	hotels and restaurants
	S_TRANS	transport and storage
		financial services
	S_PUBLIC S_HEALTH	<pre>public admin health and social work</pre>
	S_COMM	other community
	S_PRIV	private household
	S_ET	extra territorial
	S_OUT S NA	outside UK industry sector not available
	~	inauser, seees not available

Workplace size

WP1_10 workplace size 1 - 10 WP11_24 workplace size 11 - 24 REFERENCE workplace size 25 or more WP NA workplace size not known

Weekly usual hours of work

HRS_1 hrs 0 - 15 HRS_2 hrs 16 - 29 REFERENCE hrs 30 - 49 HRS_4 hrs 50 - 59 HRS_5 hrs 60+

HRS_NA hrs - not known

Employment tenure

REFERENCE less than 6 months TEN2 6 - 12 months TEN3 1 - 5 years
TEN4 5 - 20 years
TEN5 20 + years TEN_NA job tenure not known

Employment status

REFERENCE employee E_SE self employed

Region of residence

REFERENCE region - England R_SCOT region - Scotland R_WALES region - Wales

Type of response

REFERENCE Proxy respondent NOT_PROX Not proxy response

Public/private sector

SECT_PRI sector - private REFERENCE sector - public SECT_NA sector - no answer / not applicable

Type of job contract

REFERENCE permanent

All non-road workplace injuries (Winter 1996/97)

Logistic Regression Winter 1996/97

main filter: if age>=16

and if uresmc < 20 and if inecaca = 1 or 2

Model A: dependant variable = 1 if accdnt = 1 and if road = 2and if wchib = 1

Number of selected cases: 63393 (Unweighted)
Number of upselected cases: 63393 Number of unselected cases: 0

Number of selected cases: 63393 Number rejected because of missing data: 0 Number of cases included in the analysis: 63393

Dependent Variable Encoding:

Original	Internal
Value	Value
.00	0
1.00	1

Dependent Variable.. MODELA

Beginning Block Number 0. Initial Log Likelihood Function

- -2 Log Likelihood 19395.829
- * Constant is included in the model.

Beginning Block Number 1. Method: Enter

Estimation terminated at iteration number 6 because Log Likelihood decreased by less than .01 percent.

-2 Log Likelihood	18056.150
Goodness of Fit	64555.190
Cox & Snell - R^2	.021
Nagelkerke - R^2	.021

	Chi-Square	df	Significance
Model	1339.679	65	.0000
Block	1339.679	65	.0000
Step	1339.679	65	.0000

----- Variables in the Equation -----

Variable	В	S.E.	Sig	Exp(B)
MALE	.1919	.0611	.0017	1.2115
A16_19	.2380	.1206	.0484	1.2687
A20_24	.2189	.0894	.0144	1.2447
A25_34	.0674	.0666	.3116	1.0697
A35_44	.0641	.0650	.3245	1.0662
A55_59	.0516	.0960	.5909	1.0529
A60PLUS	1751	.1238	.1572	.8394
Q_DEGREE	1916	.1225	.1179	.8256
Q_OUP	.2261	.0713	.0015	1.2537
Q_TOO	.3457	.0791	.0000	1.4129

Q_NA	3991	.3670	.2768	.6709
O_OFFICE	3646	.1571	.0203	.6945
O_MAN	.5302	.1262	.0000	1.6992
O_PROF	.1712	.1397	.2203	1.1868
O_HEALTH	.6195	.1666	.0002	1.8580
O_ASSOC	.1410	.1399	.3134	1.1514
O_METAL	1.7339	.1316	.0000	5.6627
O_TEXT O_TRADE	.9503 1.2290	.2310 .1141	.0000	2.5866 3.4178
O_IRADE O SEC	1.4928	.1447	.0000	4.4494
O_BEC O_HAIR	2104	.5996	.7257	.8103
O_MMIN O SERV	1.0169	.1199	.0000	2.7645
O_HSALE	3916	.2938	.1826	.6760
O_SALE	.6937	.1452	.0000	2.0010
O_OPER	1.2668	.1097	.0000	3.5494
O_ELEMS	1.2594	.1327	.0000	3.5235
O_ELEMT	1.4312	.2608	.0000	4.1838
O_ELEMO	1.5013	.1385	.0000	4.4875
O_NA	-3.0677	6.5110	.6375	.0465
S_AG	.4388	.1816	.0157	1.5509
S_MINE	.9133	.2424	.0002	2.4925
S_MAN	.2666	.1039	.0103	1.3056
S_ELEC S CONST	.0826 .1948	.2897 .1235	.7755 .1147	1.0861 1.2150
S_WHOLE	.2747	.1120	.0142	1.3161
S_WHOTEL	.4332	.1392	.0019	1.5423
S TRANS	.2590	.1199	.0308	1.2956
S_PUBLIC	.0977	.1285	.4470	1.1027
S_HEALTH	.3940	.1294	.0023	1.4830
S_COMM	.3521	.1385	.0110	1.4221
S_PRIV	3064	.4263	.4723	.7361
S_ET	-3.9547	5.2275	.4493	.0192
S_OUT	-3.5175	6.6221	.5953	.0297
S_NA	.5842	1.0405	.5745	1.7936
WP1_10	2439 0407	.0697	.0005 .5670	.7836 .9601
WP11_24 WP_NA	1858	.0710 .1306	.1549	.8304
HRS_1	9828	.1184	.0000	.3743
HRS 2	4411	.0855	.0000	.6433
HRS_4	.1638	.0652	.0120	1.1780
HRS_5	.3365	.0819	.0000	1.4001
HRS_NA	0399	.2227	.8578	.9609
TEN2	.5674	.1158	.0000	1.7636
TEN3	.6975	.0970	.0000	2.0086
TEN4	.4864	.1004	.0000	1.6265
TEN5	.3669	.1210	.0024	1.4433
TEN_NA	.3971	.6008	.5087	1.4874
E_SE R_SCOT	.2391 1700	.3931 .0776	.5430 .0284	1.2701 .8437
R_WALES	0532	.1012	.5995	.9482
NOT_PROX	.2167	.0485	.0000	1.2420
SECT_PRI	2787	.0821	.0007	.7568
SECT_NA	5597	.3338	.0936	.5714
J_TEMP	1608	.1099	.1434	.8515
J_NA	4505	.3971	.2567	.6373
Constant	-4.9166	.1838	.0000	

All reportable workplace injuries (Winter 1996/97)

Logistic Regression Winter 1996/97

main filter: if age>=16 and if uresmc < 20and if inecaca = 1 or 2

Model B: dependant variable = 1 if accdnt = 1and if road = 2and if wchib = 1and if goback = 1 or 2 or 8

Number of selected cases: 63393 (Unweighted)
Number of uncelses: 63393 Number of unselected cases: 0 Number of selected cases: 63393

Number rejected because of missing data: 0 Number of cases included in the analysis: 63393

Dependent Variable Encoding:

Original Internal Value Value .00 1.00 1

Dependent Variable.. MODELB

Beginning Block Number 0. Initial Log Likelihood Function

- -2 Log Likelihood 8854.9627
- * Constant is included in the model.

Beginning Block Number 1. Method: Enter

Estimation terminated at iteration number 7 because Log Likelihood decreased by less than .01 percent.

-2 Log Likelihood	8183.400
Goodness of Fit	68081.582
Cox & Snell - R^2	.011
Nagelkerke - R^2	.011

	Chi-Square	df S	ignificance
Model	671.563	65	.0000
Block	671.563	65	
Step	671.563	65	

----- Variables in the Equation -----Variable B S.E. Sig Exp(B)

 MALE
 .2959
 .1025
 .0039
 1.3443

 A16_19
 -.0237
 .2173
 .9130
 .9765

 A20_24
 .1713
 .1477
 .2462
 1.1869

 A25_34
 .0662
 .1069
 .5361
 1.0684

 A35_44
 .0599
 .1027
 .5599
 1.0617

 A55_59
 -.0328
 .1514
 .8283
 .9677

A60PLUS Q_DEGREE Q_OUP Q_TOO Q_NA O_OFFICE O_MAN O_PROF O_HEALTH O_ASSOC O_METAL O_TEXT O_TRADE O_SEC	20576573 .1673 .322088826665 .43643878 .15150375 1.5872 1.0549 1.1455 1.1520	.1907 .2362 .1096 .1206 .7181 .2801 .2065 .2683 .2740 .2349 .2115 .3562 .1831	.2808 .0054 .1269 .0076 .2161 .0174 .0346 .1483 .5803 .8730 .0000 .0031 .0000	.8141 .5183 1.1821 1.3799 .4114 .5135 1.5471 .6785 1.1636 .9632 4.8899 2.8716 3.1441 3.1644
O_HAIR O SERV	-2.7497 .9506	3.5148 .1890	.4340	.0639 2.5872
O_HSALE	5778	.5222	.2685	.5611
O_SALE	.5981	.2377	.0119	1.8187
O_OPER	1.2720	.1753 .2040	.0000	3.5681 3.6456
O_ELEMS O ELEMT	1.2935 2.0500	.3204	.0000	7.7681
O_ELEMO	1.6034	.2134	.0000	4.9699
O_NA	-3.4419	10.0472	.7319	.0320
S_AG S MINE	.4830 .7342	.2865 .3993	.0918 .0659	1.6209 2.0838
S_MINE S MAN	.2041	.1793	.2549	1.2264
S_ELEC	.1576	.4444	.7228	1.1707
S_CONST	.0986	.2103	.6393	1.1036
S_WHOLE	.3832	.1892 .2635	.0428 .9053	1.4669 1.0319
S_HOTEL S TRANS	.1642	.2017	.4156	1.1784
S_PUBLIC	.1870	.2154	.3852	1.2057
S_HEALTH	.6637	.2133	.0019	1.9421
S_COMM	.4564	.2285	.0458	1.5783
S_PRIV S ET	2763 -3.8892	.7320 8.5569	.7058 .6495	.7586 .0205
S_OUT	-3.3414	10.7908	.7568	.0354
S_NA	1.8186	1.0601	.0863	6.1634
WP1_10	4089	.1177	.0005	.6644
WP11_24 WP NA	2974 2515	.1250 .2178	.0173	.7427 .7777
HRS 1	8599	.1961	.0000	.4232
HRS_2	3517	.1357	.0096	.7035
HRS_4	0144	.1111	.8972	.9857
HRS_5	.2847	.1345	.0343	1.3293
HRS_NA TEN2	.0796 .2612	.3431 .2089	.8166 .2113	1.0828 1.2984
TEN3	.5861	.1659	.0004	1.7969
TEN4	.4742	.1693	.0051	1.6068
TEN5	.5517	.1956	.0048	1.7362
TEN_NA E_SE	-3.1331 .4276	5.4513 .7203	.5655 .5527	.0436 1.5336
R SCOT	0279	.1197	.8154	.9724
R_WALES	.1593	.1490	.2851	1.1727
NOT_PROX	.1189	.0772	.1237	1.1263
SECT_PRI	3716 -1.9005	.1282 1.0081	.0037 .0594	.6896 .1495
SECT_NA J_TEMP	-1.9005	.2527	.0005	.4132
J_NA	5615	.7290	.4412	.5704
Constant	-5.6160	.3007	.0000	

All non-road workplace injuries (Winter 1995/96)

Logistic Regression

Winter 1995/96

main filter: if age>=16 and if uresmc < 20 and if inecaca = 1 or 2

Model A: dependant variable = 1 if accdnt = 1

and if road = 2 and if wchjb = 1

Total number of cases: 64022 (Unweighted)

Number of selected cases: 64022 Number of unselected cases: 0

Number of selected cases: 64022 Number rejected because of missing data: 0 Number of cases included in the analysis: 64022

Dependent Variable Encoding:

Original	Internal
Value	Value
.00	0
1.00	1

Dependent Variable.. MODELA

Beginning Block Number 0. Initial Log Likelihood Function

- -2 Log Likelihood 19738.407
- * Constant is included in the model.

Beginning Block Number 1. Method: Enter

Estimation terminated at iteration number 6 because Log Likelihood decreased by less than .01 percent.

-2 Log Likelihood	18288.473
Goodness of Fit	64113.270
Cox & Snell - R^2	.022
Nagelkerke - R^2	.022

	Chi-Square	df	Significance
Model	1449.934	65	.0000
Block Step	1449.934 1449.934	65 65	.0000
preb	T T T J J J T	0.5	.0000

		Variables	in the	Equation	
Variable	В	S.E.	Sig	Exp(B)	
MALE	.2373	.0621	.0001	1.2678	
A16_19	.1327	.1254	.2900	1.1419	
A20_24	.1516	.0867	.0803	1.1637	
A25_34	0170		.7954	.9831	
A35_44	0053	.0635	.9336	.9947	
A55_59	.0924		.3059	1.0968	
A60PLUS	3294		.0098	.7194	
Q_DEGREE	4393		.0003	.6445	
Q_OUP	.0966		.1462	1.1015	
Q_T00	.1065		.1574	1.1124	
Q_NA	1224		.7921	.8848	
O_OFFICE	5634		.0008	.5693	
O_MAN	.4739		.0003	1.6063	
O_PROF	.3557		.0084	1.4272	
O_HEALTH	.4887		.0041	1.6302	
O_ASSOC	.2830		.0439	1.3271	
O_METAL	1.8265		.0000	6.2123	
O_TEXT O TRADE	.6051 1.3991		.0229	1.8314 4.0517	
O_IRADE O_SEC	1.4475		.0000	4.0517	
O_SEC O HAIR	.5020		.2102	1.6520	
O_SERV	.9540		.0000	2.5961	
O_SERV O HSALE	0975		.7170	.9071	
O_SALE	.9192		.0000	2.5072	
O OPER	1.2568		.0000	3.5141	
O_ELEMS	.9884		.0000	2.6870	
O_ELEMT	1.8139		.0000	6.1342	
O_ELEMO	1.2825		.0000	3.6057	
O_NA	3876	1.0166	.7030	.6787	
S_AG	.7006	.1771	.0001	2.0150	
S_MINE	.4956		.0685	1.6415	
S_MAN	.2948		.0058	1.3429	
S_ELEC	.4969		.0360	1.6435	
S_CONST	.4147		.0007	1.5140	
S_WHOLE	.3025		.0097	1.3533	
S_HOTEL	.6925		.0000	1.9987	
S_TRANS	.2486		.0462	1.2822	
S_PUBLIC	.2978 .6306		.0212	1.3469 1.8788	
S_HEALTH S_COMM	.3607		.0126	1.4343	
S_PRIV	.0329		.9342	1.4343	
S_ET	-3.8335		.4599	.0216	
S OUT	-3.3315		.6224	.0357	
S NA	.2141		.8371	1.2387	
WP1_10	2440		.0005	.7835	
WP11_24	0667		.3517	.9355	
WP_NA	0362	.1237	.7698	.9644	
HRS_1	-1.0674	.1221	.0000	.3439	
HRS_2	5387		.0000	.5835	
HRS_4	.2391		.0002	1.2700	
HRS_5	.2917		.0004	1.3387	
HRS_NA	1330		.6431	.8754	
TEN2	.2706		.0200	1.3107	
TEN3	.4599		.0000	1.5840	
TEN4	.3102		.0010	1.3636	
TEN5	.2362 .3924		.0381	1.2664	
TEN_NA E_SE	.3924 1486		.4549 .6382	1.4806 .8619	
E_SE R_SCOT	1466		.0089	.8156	
R_SCOT R WALES	.0583		.5411	1.0600	
NOT_PROX	.4548		.0000	1.5759	

SECT_PRI	1943	.0807	.0161	.8234
SECT_NA	1519	.3220	.6370	.8591
$J_{\tt TEMP}$	2958	.1201	.0138	.7440
J_NA	2372	.3200	.4585	.7888
Constant	-4.9003	.1819	.0000	

All reportable workplace injuries (Winter 1995/96)

Logistic Regression

Winter 1995/96

main filter: if age>=16 and if uresmc < 20 and if inecaca = 1 or 2

Model B : dependant variable = 1 if accdnt = 1 and if road = 2

and if wehjb = 1

and if goback = 1 or 2 or 8

Total number of cases: 64022 (Unweighted)

Number of selected cases: 64022 Number of unselected cases: 0

Number of selected cases: 64022 Number rejected because of missing data: 0 Number of cases included in the analysis: 64022

Dependent Variable Encoding:

Original	Internal
Value	Value
.00	0
1.00	1

Dependent Variable.. MODELB

Beginning Block Number 0. Initial Log Likelihood Function

- -2 Log Likelihood 9190.3503
- * Constant is included in the model.

Beginning Block Number 1. Method: Enter

Estimation terminated at iteration number 7 because Log Likelihood decreased by less than .01 percent.

-2 Log Likelihood	8458.000
Goodness of Fit	65105.909
Cox & Snell - R^2	.011
Nagelkerke - R^2	.011

	Chi-Square	df S	Significance
Model	732.350	65	.0000
Block	732.350	65	.0000
Step	732.350	65	.0000

Variable	В	S.E.	Sig	Exp(B)
MALE	.1464	.1019	.1508	1.1576
A16_19	4228	.2507	.0917	.6552
A20_24	.0995	.1395	.4760	1.1046
A25 34	0817	.1048	.4357	.9216

A35_44	.0529	.0994	.5945	1.0544
A55_59	.2427	.1347	.0716	1.2747
A60PLUS	2564	.1971	.1931	.7738
Q_DEGREE	7635	.2195	.0005	.4660
Q_OUP	.0519	.1034	.6161	1.0532
Q_T00	.1579	.1144	.1674	1.1711
Q_NA	1692	.7261	.8157	.8443
O_OFFICE	6408	.2973	.0311	.5269
O MAN	.3054	.2305	.1853	1.3571
O_PROF	.2477	.2408	.3035	1.2811
O_HEALTH	.6114	.2603	.0188	1.8429
O_ASSOC	.4657	.2269	.0401	1.5931
O METAL	1.8783	.2158	.0000	6.5421
_	.4283		.3704	
O_TEXT		.4782		1.5347
O_TRADE	1.4967	.1850	.0000	4.4667
	1.7339	.2308	.0000	5.6627
O_SEC				
O HAIR	2800	1.0502	.7897	.7558
O SERV	.9729	.1991	.0000	2.6455
_				
O HSALE	1213	.4741	.7980	.8857
O_SALE	1.0360	.2350	.0000	2.8181
O_OPER	1.4658	.1794	.0000	4.3308
O ELEMS	1.2440	.2157	.0000	3.4693
_				
O_ELEMT	2.3369	.3164	.0000	10.3487
O ELEMO	1.2234	.2360	.0000	3.3987
_			.4044	
O_NA	.8492	1.0184		2.3378
S_AG	.9430	.2835	.0009	2.5675
S_MINE	.6389	.3963	.1070	1.8943
S_MAN	.1749	.1760	.3203	1.1911
S_ELEC	.3179	.3919	.4173	1.3742
	.6093	.1959	.0019	1.8391
S_CONST				
S_WHOLE	.3257	.1926	.0908	1.3850
S_HOTEL	.4516	.2483	.0690	1.5708
S_TRANS	.3203	.1980	.1058	1.3775
S_PUBLIC	.0136	.2126	.9488	1.0137
S HEALTH	.6242	.2119	.0032	1.8667
_				
S_COMM	.2493	.2397	.2983	1.2832
S PRIV	.4844	.5351	.3653	1.6233
S_ET	-4.0830	8.3991	.6269	.0169
S_OUT	-3.1480	10.9888	.7745	.0429
	-3.2719		.7056	.0379
S_NA		8.6605		
WP1 10	4283	.1156	.0002	.6516
WP11_24	4365	.1290	.0007	.6463
-				
WP_NA	.0188	.2075	.9276	1.0190
HRS_1	9322	.1954	.0000	.3937
HRS_2	5441	.1411	.0001	.5803
HRS_4	.1288	.1028	.2100	1.1375
HRS_5	0576	.1462	.6937	.9440
HRS_NA	.0052	.4203	.9901	1.0052
TEN2	.3686	.2152	.0867	1.4458
		.1715		2.0833
TEN3	.7340		.0000	
TEN4	.6488	.1734	.0002	1.9132
TEN5	.4287	.2014	.0333	1.5352
TEN_NA	1.3207	.6219	.0337	3.7459
E SE	0972	.6073	.8729	.9074
R_SCOT	0039	.1155	.9731	.9961
R_WALES	.1542	.1477	.2964	1.1667
NOT PROX	.4322	.0799	.0000	1.5407
_	2715			
SECT_PRI		.1243	.0289	.7622
SECT_NA	5413	.5973	.3648	.5820
J TEMP	3783	.2125	.0750	.6850
_				
				C11F
J_NA	4918	.6161	.4247	.6115
J_NA Constant				.6115

All non-road workplace injuries - males (Winter 1996/97)

Logistic Regression Winter 1996/97

main filter: if age>=16

and if uresmc < 20 and if inecaca = 1 or 2and if sex = 1 (male)

Model A: dependant variable = 1 if accdnt = 1

and if road = 2and if wchjb = 1

Number of selected cases: 33767 (Unweighted)
Number of unceltain Number of unselected cases: 0

Number of selected cases: 33767 Number rejected because of missing data: 0

Number of cases included in the analysis: 33767

Dependent Variable Encoding:

Original Internal Value Value .00 0 1.00 1

Dependent Variable.. MODELA

Beginning Block Number 0. Initial Log Likelihood Function

- -2 Log Likelihood 12286.686
- * Constant is included in the model.

Beginning Block Number 1. Method: Enter

Estimation terminated at iteration number 6 because Log Likelihood decreased by less than .01 percent.

-2 Log Likelihood	11397.998
Goodness of Fit	34381.180
Cox & Snell - R^2	.026
Nagelkerke - R^2	.026

	Chi-Square	df	Significance
Model	888.688	64	.0000
Block	888.688	64	.0000
Step	888.688	64	.0000

Variable	В	S.E.	Sig	Exp(B)
A16 19	.3505	.1536	.0225	1.4198
A20_24	.3936	.1094	.0003	1.4824
A25_34	.1216	.0841	.1481	1.1293
A35_44	.1648	.0812	.0425	1.1792
A55_59	0113	.1216	.9261	.9888
A60PLUS	1621	.1466	.2687	.8503
Q_DEGREE	4870	.1666	.0035	.6145

Q_OUP	.2238	.0893	.0123	1.2508
Q_T00	.3905	.0998	.0001	1.4778
O NA	6053	.4639	.1919	.5459
O OFFICE	8666	.2155	.0001	.4204
_		.1629	.8128	1.0393
O_MAN	.0386			
O_PROF	2772	.1934	.1518	.7579
O_HEALTH	.4155	.3661	.2564	1.5151
O ASSOC	5123	.1972	.0094	.5991
O METAL	1.2628	.1564	.0000	3.5354
O_TEXT	.1464	.4087	.7202	1.1576
O TRADE	.7102	.1430	.0000	2.0343
_	1.0544	.1807	.0000	2.8703
O_SEC				
O_HAIR	-4.0182	7.7587	.6045	.0180
O_SERV	.6846	.2001	.0006	1.9830
O_HSALE	-1.0502	.3781	.0055	.3499
O_SALE	.1832	.2343	.4342	1.2011
O_OPER	.7897	.1410	.0000	2.2028
O_ELEMS	.8403	.2126	.0001	2.3170
O_ELEMT	.9460	.2743	.0006	2.5754
O ELEMO	.9324	.1705	.0000	2.5407
_	-4.0613	8.7353	.6420	
O_NA				.0172
S_AG	.6405	.2088	.0022	1.8974
S_MINE	1.0326	.2599	.0001	2.8083
S_MAN	.4190	.1310	.0014	1.5205
S_ELEC	.2854	.3017	.3441	1.3303
S_CONST	.3292	.1467	.0248	1.3898
S_WHOLE	.3191	.1434	.0261	1.3758
S HOTEL	.4568	.2023	.0240	1.5791
S_TRANS	.3439	.1472	.0195	1.4105
S_PUBLIC	.2446	.1788	.1713	1.2771
S_HEALTH	.3791	.2168	.0804	1.4610
S_COMM	.5921	.1774	.0008	1.8077
S_PRIV	.2742	.6056	.6508	1.3154
S_ET	-3.9818	6.1915	.5202	.0187
S_OUT	-3.3971	7.1909	.6366	.0335
S_NA	.8074	1.0529	.4432	2.2421
WP1_10	2926	.0896	.0011	.7463
WP11 24	0656	.0927	.4793	.9365
WP_NA	2443	.1537	.1120	.7833
	-1.3261			.2655
HRS_1		.2623	.0000	
HRS_2	4221	.1780	.0177	.6556
HRS_4	.1266	.0715	.0767	1.1350
HRS_5	.2827	.0892	.0015	1.3266
HRS_NA	0573	.2551	.8221	.9443
TEN2	.5361	.1484	.0003	1.7093
TEN3	.7088	.1240	.0000	2.0315
TEN4	.5480	.1272	.0000	1.7298
TEN5	.4362	.1473	.0031	1.5469
			.2760	1.9493
TEN_NA	.6675	.6128		
E_SE	1810	.3995	.6505	.8345
R_SCOT	1754	.0963	.0686	.8391
R_WALES	0465	.1258	.7120	.9546
NOT_PROX	.2202	.0566	.0001	1.2464
SECT_PRI	1793	.1158	.1217	.8359
SECT_NA	0455	.3489	.8963	.9555
J_TEMP	2440	.1522	.1090	.7835
J_NA	.0619	.4044	.8783	1.0639
Constant	-4.5163	.2502	.0000	
2011200110	1.0103			

Reportable workplace injuries - males (Winter 1996/97)

Logistic Regression Winter 1995/96 main filter: if age>=16

and if uresmc < 20 and if inecaca = 1 or 2and if sex = 1 (male)

Model B: dependant variable = 1 if accdnt = 1and if road = 2

and if wchjb = 1

and if goback = 1 or 2 or 8

Number of selected cases: 33767 (Unweighted)
Number of unceltain 33767 Number of unselected cases: 0

Number of selected cases: 33767 Number rejected because of missing data: 0 Number of cases included in the analysis: 33767

Dependent Variable Encoding:

Original Internal Value Value .00 0 1.00 1

Dependent Variable.. MODELB

Beginning Block Number 0. Initial Log Likelihood Function

- -2 Log Likelihood 5726.359
- * Constant is included in the model.

Beginning Block Number 1. Method: Enter

Estimation terminated at iteration number 8 because Log Likelihood decreased by less than .01 percent.

-2 Log Likelihood	5264.725
Goodness of Fit	34712.425
Cox & Snell - R^2	.014
Nagelkerke - R^2	.014

	Chi-Square	df	Significance
Model	461.634	64	.0000
Block	461.634	64	.0000
Step	461.634	64	.0000

Variable	В	S.E.	Sig	Exp(B)
A16_19	.0824	.2626	.7538	1.0858
A20_24	.1094	.1842	.5525	1.1157
A25_34	.0910	.1324	.4918	1.0953
A35_44	.1520	.1263	.2290	1.1641
A55_59	2072	.1998	.2997	.8128
A60PLUS	2200	.2270	.3324	.8025

O DEGREE	8099	.3216	.0118	.4449
Q_OUP	.1464	.1364	.2833	1.1576
Q_T00	.4092	.1500	.0064	1.5056
Q_NA	-5.0760	6.5900	.4411	.0062
O_OFFICE	-1.3896	.3656	.0001	.2492
O_MAN	3696	.2508	.1406	.6910
O_PROF	-1.5982	.4145	.0001	.2023
O_HEALTH	4918	.6525	.4510	.6115
O_ASSOC	9442	.3154	.0028	.3890
O_METAL	.9372	.2317	.0001	2.5528
O TEXT	0045	.6135	.9941	.9955
-				
O_TRADE	.4353	.2074	.0358	1.5455
O_SEC	.3761	.2738	.1697	1.4565
O_HAIR	-5.2340	21.1386	.8044	.0053
O SERV	.2095	.3122	.5022	1.2331
O_HSALE	-2.3625	1.0170	.0202	.0942
O_SALE	5025	.4335	.2464	.6050
O_OPER	.6052	.2023	.0028	1.8317
O_ELEMS	.5551	.3188	.0816	1.7421
O ELEMT	1.3299	.3342	.0001	3.7806
O ELEMO	.8189	.2460		2.2681
_			.0009	
O_NA	-4.9908	22.0325	.8208	.0068
S_AG	.7423	.3274	.0234	2.1007
S MINE	.7178	.4425	.1048	2.0498
S MAN	.3606	.2249	.1089	1.4341
_	.3413	.4654	.4633	1.4068
S_ELEC				
S_CONST	.1739	.2514	.4890	1.1899
S_WHOLE	.2947	.2442	.2274	1.3427
S_HOTEL	.3138	.3608	.3844	1.3686
S TRANS	.2486	.2460	.3123	1.2823
S PUBLIC	.5068	.2939	.0847	1.6599
_				
S_HEALTH	.6517	.3529	.0648	1.9188
S_COMM	.7537	.2875	.0087	2.1248
S_PRIV	.0825	1.0342	.9364	1.0860
S_ET	-4.8394	16.7570	.7727	.0079
S_OUT	-4.1766	19.3202	.8288	.0154
S_NA	2.0681	1.0851	.0567	7.9095
WP1_10	5046	.1542	.0011	.6037
WP11_24	3324	.1632	.0417	.7172
WP NA	2775	.2570	.2801	.7576
HRS_1	9458	.4081	.0205	.3884
	2576	.2800	.3575	.7729
HRS_2				
HRS_4	0525	.1194	.6598	.9488
HRS_5	.1343	.1487	.3667	1.1437
HRS_NA	1466	.4201	.7271	.8636
TEN2	.2264	.2578	.3799	1.2541
TEN3	.5587	.2046	.0063	1.7485
TEN4	.4453	.2076	.0319	1.5610
TEN5	.4055	.2355	.0852	1.5000
TEN_NA	-4.2342	10.6242	.6902	.0145
E SE	.0260	.7299	.9716	1.0263
_				
R_SCOT	0476	.1497	.7505	.9535
R_WALES	.2645	.1768	.1348	1.3028
NOT_PROX	.1166	.0896	.1931	1.1237
SECT_PRI	1898	.1799	.2914	.8272
SECT_NA	-1.4372	1.0207	.1591	.2376
	9042	.3306		.4048
J_TEMP			.0062	
J_NA	0268	.7411	.9712	.9736
Constant	-4.8290	.3918	.0000	

All non-road workplace injuries - females (Winter 1996/97)

Logistic Regression Winter 1996/97

main filter: if age>=16

and if uresmc < 20 and if inecaca = 1 or 2 and if sex = 2 (female)

Model A: dependant variable = 1 if accdnt = 1

and if road = 2and if wchjb = 1

Number of selected cases: 29626 (Unweighted)
Number of unsolers: 29626

Number of selected cases: Number rejected because of missing data: 0

Number of cases included in the analysis: 29626

Dependent Variable Encoding:

Original	Internal
Value	Value
.00	0
1.00	1

Dependent Variable.. MODELA

Beginning Block Number 0. Initial Log Likelihood Function

- -2 Log Likelihood 6929.5289
- * Constant is included in the model.

Beginning Block Number 1. Method: Enter

Estimation terminated at iteration number 7 because Log Likelihood decreased by less than .01 percent.

-2 Log Likelihood	6528.944
Goodness of Fit	29293.029
Cox & Snell - R^2	.013
Nagelkerke - R^2	.013

	Chi-Square	df	Significance
Model	400.585	64	.0000
Block	400.585	64	.0000
Step	400.585	64	.0000

		Variables	in the	Equation
Variable	В	S.E.	Sig	Exp (B)
A16_19	.0304	.2027	.8808	1.0309
A20_24	2061	.1610	.2005	.8137
A25_34	0922	.1120	.4106	.9119
A35_44	1561	.1107	.1585	.8555
A55_59	.2124	.1573	.1769	1.2367
A60PLUS	1431	.2380	.5476	.8666
Q_DEGREE	.2448	.1886	.1942	1.2774
Q_OUP	.2850	.1219	.0194	1.3297
Q_T00	.2671	.1324	.0437	1.3062

Q_NA O_OFFICE O MAN	.0794 0026 .8566	.5982 .2299 .2216	.8945 .9910 .0001	1.0826 .9974 2.3552
O_PROF	.3702	.2090	.0766	1.4480
O_HEALTH	.7658	.1980	.0001	2.1508
O_ASSOC O METAL	.6807 -3.8610	.1980 10.0863	.0006 .7019	1.9753 .0210
O_METAL O TEXT	1.6600	.3065	.0000	5.2593
O_TRADE	1.4773	.3549	.0000	4.3810
O_SEC	1.7433	.3446	.0000	5.7163
O_HAIR O SERV	.5813 1.2557	.6220 .1563	.3500 .0000	1.7884 3.5103
O_SERV O HSALE	.4036	.1503	.3886	1.4973
O_SALE	.8975	.2030	.0000	2.4534
O_OPER	1.5986	.2148	.0000	4.9460
O_ELEMS	1.4950	.1753	.0000 .8745	4.4595
O_ELEMT O_ELEMO	-3.0984 2.3776	19.6179 .2789	.0000	.0451 10.7793
O_NA	-1.7376	13.9767	.9011	.1759
S_AG	4042	.4452	.3640	.6675
S_MINE	.7192	1.0332	.4863	2.0529
S_MAN S_ELEC	2338 -3.9257	.2023 5.8783	.2477 .5042	.7915 .0197
S_CONST	7021	.5953	.2383	.4955
S_WHOLE	.1959	.1857	.2913	1.2164
S_HOTEL	.2432	.2000	.2240	1.2753
S_TRANS S PUBLIC	.0959 2268	.2404 .1910	.6901 .2351	1.1006 .7971
S_POBLIC S HEALTH	.1864	.1758	.2889	1.2049
S_COMM	0901	.2306	.6960	.9139
S_PRIV	8094	.6072	.1825	.4451
S_ET	-4.6172	16.3252	.7773	.0099
S_OUT S_NA	-3.5514 -2.7080	29.8928 12.7901	.9054 .8323	.0287 .0667
WP1_10	1988	.1126	.0775	.8197
WP11_24	0181	.1116	.8710	.9821
WP_NA	1303	.2602	.6166	.8779
HRS_1 HRS_2	8907 4313	.1390 .1013	.0000	.4104 .6496
HRS_4	.3077	.1603	.0549	1.3604
HRS_5	.6602	.2144	.0021	1.9351
HRS_NA	0965	.4629	.8349	.9080
TEN2 TEN3	.6209 .6509	.1857 .1563	.0008	1.8606 1.9174
TEN4	.3131	.1654	.0583	1.3677
TEN5	.1654	.2299	.4720	1.1798
TEN_NA	-3.8548	9.7445	.6924	.0212
E_SE	4.0477 1456	4.4317 .1317	.3611 .2690	57.2650 .8645
R_SCOT R_WALES	0684	.1712	.6894	.9339
NOT_PROX	.2228	.0952	.0193	1.2496
SECT_PRI	3735	.1194	.0018	.6883
SECT_NA	-4.7207	4.1650	.2570	.0089
J_TEMP J NA	0648 -4.5153	.1599 4.4326	.6853 .3084	.9373 .0109
Constant	-4.7217	.2812	.0000	.0103

Reportable workplace injuries - females (Winter 1996/97)

Logistic Regression Winter 1996/97

main filter: if age>=16

and if uresmc < 20 and if inecaca = 1 or 2 and if sex = 2 (female)

Model B : dependant variable = 1 if accdnt = 1

and if road = 2and if wchjb = 1

and if goback = 1 or 2 or 8

Number of selected cases: 29626 (Unweighted)
Number of uncelected 29626 Number of unselected cases: 0

Number of selected cases: 29626 Number rejected because of missing data: 0

Number of cases included in the analysis: 29626

Dependent Variable Encoding:

Original Internal Value Value .00 Ω 1.00 1

Dependent Variable.. MODELB

Beginning Block Number 0. Initial Log Likelihood Function

- -2 Log Likelihood 3055.6738
- * Constant is included in the model.

Beginning Block Number 1. Method: Enter

Estimation terminated at iteration number 9 because Log Likelihood decreased by less than .01 percent.

-2 Log Likelihood	2801.633
Goodness of Fit	30914.272
Cox & Snell - R^2	.009
Nagelkerke - R^2	.009

	Chi-Square	df Sig	nificance
Model	254.041	64	.0000
Block	254.041	64	.0000
Step	254.041	64	.0000

----- Variables in the Equation ------

Variable	В	S.E.	Sig	Exp(B)
A16_19	3513	.4105	.3922	.7038
A20_24	.2070	.2520	.4113	1.2300
A25_34	0573	.1868	.7590	.9443
A35_44	1461	.1821	.4225	.8641
A55_59	.2358	.2360	.3178	1.2659
A60PLUS	2285	.3643	.5304	.7957
Q_DEGREE	4150	.3583	.2467	.6603
Q_OUP	.2656	.1894	.1610	1.3042

Q_TOO					
Q_NA .4513 .7416 .5428 1.5704 O_DFFICE 0792 .4320 .8545 .9239 O_MAN 1.2980 .3626 .0003 3.6621 O_PROF .5713 .3778 .1305 1.7706 O_HEALTH .5982 .3364 .0754 1.8189 O_ASSOC .8360 .3478 .0162 2.3070 O_METAL -4.6906 26.8618 .8614 .0092 O_TEXT 2.2218 .5010 .0000 9.2238 O_SEC 2.0800 .5204 .0001 8.0043 O_HAIR -3.5583 9.5973 .7108 .0285 O_SEC 2.0800 .5204 .0001 8.0433 O_SALE 1.5900 .2649 .0000 4.9039 O_SALE 1.0303 .3350 .0021 2.8018 O_ELEMS 1.9013 .2860 .0000 6.6947 O_ELEMT -3.4824 52.8436 .9475 .0304<	O TOO	.1035	.2111	.6239	1.1091
O_OFFICE			7416		
O_MAN					
O_PROF					
O_HEALTH	O_MAN	1.2980	.3626	.0003	3.6621
O_HEALTH .5982 .3364 .0754 1.8189 O_ASSOC .8360 .3478 .0162 2.3070 O_METAL -4.6906 26.8618 .8614 .0092 O_TEXT 2.2218 .5010 .0000 9.2238 O_TRADE 1.2213 .7536 .1051 3.3918 O_SEC 2.0800 .5204 .0001 8.0043 O_HAIR -3.5583 9.5973 .7108 .0285 O_SALE 1.5900 .2649 .0000 4.9039 O_HSALE 1.2266 .6213 .0483 3.4096 O_SALE 1.0303 .3350 .0021 2.8018 O_DELEMS 1.9013 .2860 .0000 6.6947 O_ELEMS 1.9013 .2860 .0000 6.6947 O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9591 .1585 S_AG 9520 .8193 .2453 .3	O PROF	.5713	.3778	.1305	1.7706
O_ASSOC .8360 .3478 .0162 2.3070 O_METAL -4.6906 26.8618 .8614 .0092 O_TEXT 2.2218 .5010 .0000 9.238 O_TRADE 1.2213 .7536 .1051 3.3918 O_SEC 2.0800 .5204 .0001 8.043 O_HAIR -3.5583 9.5973 .7108 .0285 O_SERV 1.5900 .2649 .0000 4.9039 O_HSALE 1.0266 .6213 .0483 3.4096 O_SALE 1.0303 .3350 .0021 2.8018 O_OPER 1.6263 .4003 .0000 6.6947 O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9591 .1585 S_AG 9520 .8133 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 <td></td> <td></td> <td></td> <td></td> <td></td>					
O_METAL	_				
O_TEXT 2.2218 .5010 .0000 9.2238 O_TRADE 1.2213 .7536 .1051 3.3918 O_SEC 2.0800 .5204 .0001 8.0043 O_HAIR -3.5583 9.5973 .7108 .0285 O_SALE 1.5900 .2649 .0000 4.9039 O_HSALE 1.0303 .3350 .0021 2.8018 O_OPER 1.6263 .4003 .0000 5.0849 O_ELEMS 1.9013 .2860 .0000 6.6947 O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9591 .1585 S_AG -9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN -5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_WHOLE .5123 .3068 .0949 1.6691 <td></td> <td></td> <td></td> <td></td> <td></td>					
O_TRADE	O_METAL		26.8618	.8614	.0092
O_TRADE	O TEXT	2.2218	.5010	.0000	9.2238
O_SEC 2.0800 .5204 .0001 8.0043 O_HAIR -3.5583 9.5973 .7108 .0285 O_SERV 1.5900 .2649 .0000 4.9039 O_HSALE 1.2266 .6213 .0483 3.4096 O_SALE 1.6263 .4003 .0000 5.0849 O_ELEMS 1.9013 .2860 .0000 6.6947 O_ELEMT -3.4824 52.8436 .9475 .0307 O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9591 .1585 S_AG 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST -0121 .7474 .9871 .9880 S_HOTEL -5149 .3998 .1977 .5976 </td <td>O TRADE</td> <td></td> <td>7536</td> <td>1051</td> <td>3 3918</td>	O TRADE		7536	1051	3 3918
O_HAIR					
O_SERV 1.5900 .2649 .0000 4.9039 O_HSALE 1.2266 .6213 .0483 3.4096 O_SALE 1.0303 3.350 .0021 2.8018 O_DER 1.6263 .4003 .0000 5.0849 O_ELEMS 1.9013 .2860 .0000 6.6947 O_ELEMO 3.0095 .4414 .0000 2.0774 O_NA -1.8422 35.9518 .9591 .1585 S_AG 9520 .8193 .2453 .3860 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST -0121 .7474 .9871 .9880 S_HOTEL -5149 .3998 .1977 .5976 S_TANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_HEALTH .3296 .3001 .2719 .13905	_				
O_HSALE 1.2266 .6213 .0483 3.4096 O_SALE 1.0303 .3350 .0021 2.8018 O_OPER 1.6263 .4003 .0000 5.0849 O_ELEMS 1.9013 .2860 .0000 6.6947 O_ELEMT -3.4824 52.8436 .9475 .0307 O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9991 3.265 S_AG 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST -0121 .7474 .9871 .9880 S_HOTEL -5149 .3998 .1977 .5976 S_TRANS -2957 .4437 .5051 .7440 S_PUBLIC -3977 .3291 .2269 .6719 <td>O_HAIR</td> <td>-3.5583</td> <td></td> <td>.7108</td> <td></td>	O_HAIR	-3.5583		.7108	
O_HSALE 1.2266 .6213 .0483 3.4096 O_SALE 1.0303 .3350 .0021 2.8018 O_OPER 1.6263 .4003 .0000 5.0849 O_ELEMS 1.9013 .2860 .0000 6.6947 O_ELEMT -3.4824 52.8436 .9475 .0307 O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9991 3.265 S_AG 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST -0121 .7474 .9871 .9880 S_HOTEL -5149 .3998 .1977 .5976 S_TRANS -2957 .4437 .5051 .7440 S_PUBLIC -3977 .3291 .2269 .6719 <td>O_SERV</td> <td>1.5900</td> <td>.2649</td> <td>.0000</td> <td>4.9039</td>	O_SERV	1.5900	.2649	.0000	4.9039
O_SALE 1.0303 .3350 .0021 2.8018 O_OPER 1.6263 .4003 .0000 5.0849 O_ELEMS 1.9013 .2860 .0000 6.6947 O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9591 .1585 S_AG 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST 0121 .7474 .9871 .9880 S_HOTEL 5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 <td>O HSALE</td> <td>1.2266</td> <td>. 6213</td> <td>.0483</td> <td></td>	O HSALE	1.2266	. 6213	.0483	
O_OPER 1.6263 .4003 .0000 5.0849 O_ELEMT -3.4824 52.8436 .9475 .0307 O_ELEMT -3.4824 52.8436 .9475 .0307 O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9591 .1585 S_AG 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 .73228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST 0121 .7474 .9871 .9880 S_HOTEL 5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .438					
O_ELEMS 1.9013 .2860 .0000 6.6947 O_ELEMT -3.4824 52.8436 .9475 .0307 O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9591 .1558 S_G 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST -0121 .7474 .9871 .9880 S_HOTEL .5149 .3998 .1977 .5976 S_TRANS -2957 .4437 .5051 .7440 S_PUBLIC -3977 .3291 .2269 .6719 S_COMM -1811 .4012 .6517 .8344 S_PUBLIC -3977 .3291 .2269 .6719 S_ETAOH -8852 1.0471 .4306 .4381					
O_ELEMT -3.4824 52.8436 .9475 .0307 O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9591 .1585 S_AG 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_CONST -0121 .7474 .9871 .9880 S_CONST 0121 .7474 .9871 .9880 S_HOTEL .5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_DUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249	_				
O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9591 .1585 S_AG 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST -0121 .7474 .9871 .9880 S_HOLE .5123 .3068 .0949 1.6691 S_HOTEL -51249 .3998 1.977 .5976 S_TRANS -2957 .4437 .5051 .7440 S_PUBLIC -3977 .3291 .2269 .6719 S_LAGALTH .3296 .3001 .2719 1.3905 S_COMM -1811 .4012 .6517 8344 S_PRIV -8252 1.0471 .4306 .4381 S_COT -4.1602 80.2421 .9587 .0156	O_ELEMS	1.9013	.2860		6.6947
O_ELEMO 3.0095 .4414 .0000 20.2774 O_NA -1.8422 35.9518 .9591 .1585 S_AG 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST -0121 .7474 .9871 .9880 S_HOLE .5123 .3068 .0949 1.6691 S_HOTEL -51249 .3998 1.977 .5976 S_TRANS -2957 .4437 .5051 .7440 S_PUBLIC -3977 .3291 .2269 .6719 S_LAGALTH .3296 .3001 .2719 1.3905 S_COMM -1811 .4012 .6517 8344 S_PRIV -8252 1.0471 .4306 .4381 S_COT -4.1602 80.2421 .9587 .0156	O ELEMT	-3.4824	52.8436	.9475	.0307
O_NA -1.8422 35.9518 .9591 .1585 S_AG 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST 0121 .7474 .9871 .9880 S_WHOLE .5123 .3068 .0949 1.6691 S_HOTEL 5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_COM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_ET -5.6796 42.8003 .8944 .0034					
S_AG 9520 .8193 .2453 .3860 S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST 0121 .7474 .9871 .9880 S_WHOLE .5123 .3068 .0949 1.6691 S_HOTEL 5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_HEALTH .3296 .3001 .2719 1.3905 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_CUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP1_10 3006 .1848 .1039 .7404	_				
S_MINE 1.9910 1.0555 .0592 7.3228 S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST 0121 .7474 .9871 .9880 S_WHOLE .5123 .3068 .0949 1.6691 S_HOTEL 5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_HEALTH .3296 .3001 .2719 1.3905 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_DUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP1_10 3006 .1848 .1039 .7404 WP1_124 2511 .1961 .2003 .7779 <td>_</td> <td></td> <td></td> <td></td> <td></td>	_				
S_MAN 5247 .3744 .1610 .5917 S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST 0121 .7474 .9871 .9880 S_WHOLE .5123 .3068 .0949 1.6691 S_HOLE .5149 .3998 .1977 .5976 S_TRANS .2957 .4437 .5051 .7440 S_PUBLIC .3977 .3291 .2269 .6719 S_HEALTH .3296 .3001 .2719 1.3905 S_COMM -1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_OUT -4.1602 80.2421 .9587 .0156 </td <td>S_AG</td> <td></td> <td></td> <td></td> <td></td>	S_AG				
S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST 0121 .7474 .9871 .9880 S_WHOLE .5123 .3068 .0949 1.6691 S_HOTEL 5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_HEALTH .3296 .3001 .2719 1.3905 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_ET -5.6796 42.8003 .8944 .0034 S_OUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP_10 -3066 .1848 .1039 .7404 WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518	S_MINE	1.9910	1.0555	.0592	7.3228
S_ELEC -4.7698 15.6390 .7604 .0085 S_CONST 0121 .7474 .9871 .9880 S_WHOLE .5123 .3068 .0949 1.6691 S_HOTEL 5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_HEALTH .3296 .3001 .2719 1.3905 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_ET -5.6796 42.8003 .8944 .0034 S_OUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP_10 -3066 .1848 .1039 .7404 WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518	SMAN	- 5247	3744	1610	5917
S_CONST 0121 .7474 .9871 .9880 S_WHOLE .5123 .3068 .0949 1.6691 S_HOTEL 5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_ET -5.6796 42.8003 .8944 .0034 S_OUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP1_10 3006 .1848 .1039 .7404 WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518 HRS_1 7684 .2333 .0010 .4638 HRS_2 3329 .1622 .0401 .7168 <	_				
S_WHOLE .5123 .3068 .0949 1.6691 S_HOTEL 5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_HEALTH .3296 .3001 .2719 1.3905 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_ET -5.6796 42.8003 .8944 .0034 S_OUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP1_10 3006 .1848 .1039 .7404 WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518 HRS_1 7684 .2333 .0010 .4638 HRS_2 3329 .1622 .0401 .7168					
S_HOTEL 5149 .3998 .1977 .5976 S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_HEALTH .3296 .3001 .2719 1.3905 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_ET -5.6796 42.8003 .8944 .0034 S_OUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP1_10 3006 .1848 .1039 .7404 WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518 HRS_1 7684 .2333 .0010 .4638 HRS_2 3329 .1622 .0401 .7168 HRS_3 1.1431 .3178 .0003 3.1366 <	_				
S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_HEALTH .3296 .3001 .2719 1.3905 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_ET -5.6796 42.8003 .8944 .0034 S_OUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP1_10 3006 .1848 .1039 .7404 WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518 HRS_1 7684 .2333 .0010 .4638 HRS_2 3329 .1622 .0401 .7168 HRS_4 .0493 .3110 .8740 1.0505 HRS_5 1.1431 .3178 .0003 3.1366 TEN_2NA .6400 .6000 .2862 1.8964	S_{WHOLE}	.5123	.3068	.0949	1.6691
S_TRANS 2957 .4437 .5051 .7440 S_PUBLIC 3977 .3291 .2269 .6719 S_HEALTH .3296 .3001 .2719 1.3905 S_COMM 1811 .4012 .6517 .8344 S_PRIV 8252 1.0471 .4306 .4381 S_ET -5.6796 42.8003 .8944 .0034 S_OUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP1_10 3006 .1848 .1039 .7404 WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518 HRS_1 7684 .2333 .0010 .4638 HRS_2 3329 .1622 .0401 .7168 HRS_4 .0493 .3110 .8740 1.0505 HRS_5 1.1431 .3178 .0003 3.1366 TEN_2NA .6400 .6000 .2862 1.8964	S HOTEL	5149	.3998	.1977	.5976
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S_ET -5.6796 42.8003 .8944 .0034 S_OUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP1_10 3006 .1848 .1039 .7404 WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518 HRS_1 7684 .2333 .0010 .4638 HRS_2 3329 .1622 .0401 .7168 HRS_4 .0493 .3110 .8740 1.0505 HRS_5 1.1431 .3178 .0003 3.1366 HRS_NA .6400 .6000 .2862 1.8964 TEN2 .3816 .3580 .2864 1.4646 TEN3 .6333 .2856 .0266 1.8838 TEN4 .4829 .2959 .1027 1.6208 TEN_NA -4.7478 .25.9716 .8549 .0087 <	S_COMM	1811	.4012	.6517	.8344
S_ET -5.6796 42.8003 .8944 .0034 S_OUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP1_10 3006 .1848 .1039 .7404 WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518 HRS_1 7684 .2333 .0010 .4638 HRS_2 3329 .1622 .0401 .7168 HRS_4 .0493 .3110 .8740 1.0505 HRS_5 1.1431 .3178 .0003 3.1366 HRS_NA .6400 .6000 .2862 1.8964 TEN2 .3816 .3580 .2864 1.4646 TEN3 .6333 .2856 .0266 1.8838 TEN4 .4829 .2959 .1027 1.6208 TEN_NA -4.7478 .25.9716 .8549 .0087 <	S PRIV	8252	1.0471	.4306	.4381
S_OUT -4.1602 80.2421 .9587 .0156 S_NA -3.6946 33.0114 .9109 .0249 WP1_10 3006 .1848 .1039 .7404 WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518 HRS_1 7684 .2333 .0010 .4638 HRS_2 3329 .1622 .0401 .7168 HRS_4 .0493 .3110 .8740 1.0505 HRS_5 1.1431 .3178 .0003 3.1366 HRS_NA .6400 .6000 .2862 1.8964 TEN2 .3816 .3580 .2864 1.4646 TEN3 .6333 .2856 .0266 1.8838 TEN4 .4829 .2959 .1027 1.6208 TEN5 .9435 .3557 .0080 2.5690 TEN_NA -4.7478 25.9716 .8549 .0087 E_SE 4.6401 11.2678 .6805 103.5500 R	_				
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WP11_24 2511 .1961 .2003 .7779 WP_NA 4281 .4700 .3624 .6518 HRS_1 7684 .2333 .0010 .4638 HRS_2 3329 .1622 .0401 .7168 HRS_4 .0493 .3110 .8740 1.0505 HRS_5 1.1431 .3178 .0003 3.1366 HRS_NA .6400 .6000 .2862 1.8964 TEN2 .3816 .3580 .2864 1.4646 TEN3 .6333 .2856 .0266 1.8838 TEN4 .4829 .2959 .1027 1.6208 TEN5 .9435 .3557 .0080 2.5690 TEN_NA -4.7478 25.9716 .8549 .0087 E_SE 4.6401 11.2678 .6805 103.5500 R_WALES 0778 .2794 .7807 .9252 NOT_PROX .1251 .1538 .4161 1.1333 SECT_NA -5.5944 11.1130 .6147 .0037 <					
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WP_NA 4281 .4700 .3624 .6518 HRS_1 7684 .2333 .0010 .4638 HRS_2 3329 .1622 .0401 .7168 HRS_4 .0493 .3110 .8740 1.0505 HRS_5 1.1431 .3178 .0003 3.1366 HRS_NA .6400 .6000 .2862 1.8964 TEN2 .3816 .3580 .2864 1.4646 TEN3 .6333 .2856 .0266 1.8838 TEN4 .4829 .2959 .1027 1.6208 TEN5 .9435 .3557 .0080 2.5690 TEN_NA -4.7478 25.9716 .8549 .0087 E_SE 4.6401 11.2678 .6805 103.5500 R_WALES 0778 .2794 .7807 .9252 NOT_PROX .1251 .1538 .4161 1.1333 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP 8684 .3948 .0279 .4196 <t< td=""><td>WP11 24</td><td>2511</td><td>.1961</td><td>.2003</td><td>.7779</td></t<>	WP11 24	2511	.1961	.2003	.7779
HRS_1					
HRS_23329 .1622 .0401 .7168 HRS_4 .0493 .3110 .8740 1.0505 HRS_5 1.1431 .3178 .0003 3.1366 HRS_NA .6400 .6000 .2862 1.8964 TEN2 .3816 .3580 .2864 1.4646 TEN3 .6333 .2856 .0266 1.8838 TEN4 .4829 .2959 .1027 1.6208 TEN5 .9435 .3557 .0080 2.5690 TEN_NA -4.7478 25.9716 .8549 .0087 E_SE 4.6401 11.2678 .6805 103.5500 R_SCOT .0059 .2014 .9766 1.0059 R_WALES0778 .2794 .7807 .9252 NOT_PROX .1251 .1538 .4161 1.1333 SECT_PRI5625 .1943 .0038 .5698 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053					
HRS_4					
HRS_5 1.1431 .3178 .0003 3.1366 HRS_NA .6400 .6000 .2862 1.8964 TEN2 .3816 .3580 .2864 1.4646 TEN3 .6333 .2856 .0266 1.8838 TEN4 .4829 .2959 .1027 1.6208 TEN5 .9435 .3557 .0080 2.5690 TEN_NA -4.7478 25.9716 .8549 .0087 E_SE 4.6401 11.2678 .6805 103.5500 R_SCOT .0059 .2014 .9766 1.0059 R_WALES0778 .2794 .7807 .9252 NOT_PROX .1251 .1538 .4161 1.1333 SECT_PRI5625 .1943 .0038 .5698 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053					
HRS_NA		.0493	.3110	.8740	1.0505
HRS_NA	HRS 5	1.1431	.3178	.0003	3.1366
TENZ .3816 .3580 .2864 1.4646 TEN3 .6333 .2856 .0266 1.8838 TEN4 .4829 .2959 .1027 1.6208 TEN5 .9435 .3557 .0080 2.5690 TEN_NA -4.7478 25.9716 .8549 .0087 E_SE 4.6401 11.2678 .6805 103.5500 R_SCOT .0059 .2014 .9766 1.0059 R_WALES 0778 .2794 .7807 .9252 NOT_PROX .1251 .1538 .4161 1.1333 SECT_PRI 5625 .1943 .0038 .5698 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP 8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053	_	6400			1 8964
TEN3	_				
TEN4 .4829 .2959 .1027 1.6208 TEN5 .9435 .3557 .0080 2.5690 TEN_NA -4.7478 25.9716 .8549 .0087 E_SE 4.6401 11.2678 .6805 103.5500 R_SCOT .0059 .2014 .9766 1.0059 R_WALES0778 .2794 .7807 .9252 NOT_PROX .1251 .1538 .4161 1.1333 SECT_PRI5625 .1943 .0038 .5698 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053					
TEN5	TEN3				
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TEN_NA -4.7478 25.9716 .8549 .0087 E_SE 4.6401 11.2678 .6805 103.5500 R_SCOT .0059 .2014 .9766 1.0059 R_WALES0778 .2794 .7807 .9252 NOT_PROX .1251 .1538 .4161 1.1333 SECT_PRI5625 .1943 .0038 .5698 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053	TEN5	.9435	.3557	.0080	2.5690
E_SE 4.6401 11.2678 .6805 103.5500 R_SCOT .0059 .2014 .9766 1.0059 R_WALES 0778 .2794 .7807 .9252 NOT_PROX .1251 .1538 .4161 1.1333 SECT_PRI 5625 .1943 .0038 .5698 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP 8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053					
R_SCOT					
R_WALES 0778 .2794 .7807 .9252 NOT_PROX .1251 .1538 .4161 1.1333 SECT_PRI 5625 .1943 .0038 .5698 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP 8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053	_				
NOT_PROX .1251 .1538 .4161 1.1333 SECT_PRI 5625 .1943 .0038 .5698 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP 8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053	R_SCOT				
SECT_PRI 5625 .1943 .0038 .5698 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP 8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053	R_WALES	0778	.2794	.7807	.9252
SECT_PRI 5625 .1943 .0038 .5698 SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP 8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053	NOT PROX	.1251	.1538	.4161	1.1333
SECT_NA -5.5944 11.1130 .6147 .0037 J_TEMP 8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053					
J_TEMP8684 .3948 .0279 .4196 J_NA -5.2362 11.2690 .6422 .0053	_				
J_NA -5.2362 11.2690 .6422 .0053					
Constant -5.7960 .4862 .0000	J_NA	-5.2362	11.2690	.6422	.0053
	Constant	-5.7960	.4862	.0000	

APPENDIX 3

						Male, GB						
Reportable	e Injury Rate (e	xc. Road a	ccidents)									
					soc	sub-major g	group					
Industry sections	1.1 - 4.2	5.2	5.1, 5.3	6.1	6.2	7.1	7.2	8.1	8.2	9.1	9.2	All
A+B	2.1	2.5	2.8	*	*	*	29.2	3.0	4.4	3.1	2.3	2.6
С	0.8	3.7	7.3	*	*	*	*	3.5	3.3	*	2.1	2.8
D+E	1.0	2.7	3.4	*	*	0.7	1.7	3.8	3.6	4.6	3.9	2.4
F	0.8	3.6	2.9	*	3.8	*	4.0	2.4	2.8	*	4.0	2.6
G	1.1	1.4	2.8	2.5	2.6	0.7	1.3	2.1	3.6	4.6	1.7	1.6
Н	0.9	9.8	1.9	7.9	1.1	*	*	4.9	*	*	3.5	1.5
I	1.3	2.2	5.2	1.3	3.9	*	*	2.6	3.1	*	4.5	2.7
J+K	0.4	2.2	3.4	1.8	3.6	0.8	1.1	3.5	4.3	10.1	1.8	0.8
L+M	0.7	1.8	5.3	4.3	2.3	*	*	*	2.0	7.2	2.5	1.7
N	0.8	*	1.3	*	4.2	*	*	5.5	4.0	*	4.6	1.7
O,P+Q	1.4	1.4	3.3	3.1	1.1	*	*	1.7	6.2	*	4.5	2.1
All	0.9	2.6	3.2	3.6	2.1	0.7	1.3	3.6	3.4	3.3	3.5	2.0

					F	emale, GB						
Reportable	Injury Rate (ex	c. road acci	idents)									
					SOC	sub-major g	jroup					
Industry sections	1.1 - 4.2	5.2	5.1, 5.3	6.1	6.2	7.1	7.2	8.1	8.2	9.1	9.2	All
A+B	0.6	*	0.9	*	*	*	*	*	*	0.9	5.1	0.8
С	2.4	*	*	*	*	*	*	*	*	*	*	2.1
D+E	0.4	0.7	1.4	*	0.9	0.6	0.4	2.0	1.9	*	1.2	1.0
F	0.6	8.5	*	*	*	*	*	11.8	*	*	1.2	0.7
G	0.6	5.2	1.3	6.0	1.2	0.9	1.2	2.7	3.5	*	2.3	1.1
Н	0.9	*	*	*	1.1	*	1.4	*	10.8	*	1.5	1.2
1	0.4	*	*	5.0	2.7	*	0.8	3.8	2.9	*	3.0	0.9
J+K	0.5	6.9	2.1	3.7	3.0	0.9	0.5	1.6	4.0	*	0.8	0.6
L+M	0.5	*	2.6	4.7	1.3	*	*	*	10.1	*	1.8	0.8
N	1.2	*	*	*	2.7	*	*	*	3.5	11.1	2.5	1.9
O,P+Q	0.8	*	*	1.7	0.3	*	1.0	2.5	*	15.4	0.9	0.8
All	0.7	1.8	1.3	4.3	1.8	0.7	1.2	2.0	3.6	3.2	1.7	1.1

Note: * = estimated number of injuries too small for reporting

					Ma	ale, GB, 19	96						
Reportable I	eportable Injury excluding road SOC sub-major group												
Industry Sections	1.1 - 4.2	5.2	5.1, 5.3	6.1	6.2	7.1	7.2	8.1	8.2	9.1	9.2	Total	
A+B	4706.8	146.7	261.3	*	*	*	308.8	1408.2	30.7	3515.5	*	10378.0	
С	169.7	262.6	572.3	*	*	*	*	295.6	290.2	*	127.1	1717.6	
D+E	9503.1	13743.6	17957.6	*	*	491.8	268.3	13733.7	11982.1	*	8500.2	76180.3	
F	2393.7	4761.1	20120.6	*	162.9	*	76.3	2020.2	2088.3	*	4721.6	36344.8	
G	9871.0	2050.0	8600.2	318.6	2122.8	789.8	3113.1	2689.3	4555.1	*	1475.1	35585.1	
Н	3263.7	521.4	288.2	515.7	1042.5	*	*	445.6	*	*	2304.3	8381.4	
I	4189.6	1850.5	8429.3	200.4	1022.8	*	*	5356.3	6514.9	*	4522.0	32085.6	
J+K	5601.4	1205.4	3494.9	1176.6	1966.2	949.7	121.0	2134.0	2725.3	*	1124.2	20498.7	
L+M	5176.8	444.9	2406.1	6190.5	826.5	*	*	*	757.5	*	1875.9	17678.1	
N	2994.5	*	356.8	*	1584.5	*	*	1071.2	843.2	*	1703.9	8554.1	
O,P+Q	5065.1	273.5	1087.2	921.6	401.2	*	*	618.4	2541.8	*	2117.0	13025.7	
Total	52935.3	25259.7	63574.5	9323.4	9129.5	2231.2	3887.6	29772.6	32329.2	3515.5	28471.1	260429.5	

					М	ale, GB, 200)6					
Reportable I	portable Injury excluding road											
					SOC s	sub-major	group					
Industry Sections	1.1 - 4.2	5.2	5.1, 5.3	6.1	6.2	7.1	7.2	8.1	8.2	9.1	9.2	Total
A+B	4451.3	167.6	330.9	*	*	*	399.0	2078.0	40.5	2046.7	*	9514.0
С	143.2	153.6	331.6	*	*	*	*	211.3	208.5	*	84.4	1132.6
D+E	10031.0	10627.3	15659.2	*	*	298.8	247.3	13431.0	11305.2	*	8025.6	69625.4
F	2846.8	4267.9	19766.7	*	246.3	*	78.2	2200.7	2205.4	*	5016.0	36628.0
G	10427.9	1996.8	8812.0	459.0	3496.3	588.5	3464.5	3194.9	5229.7	*	1713.6	39383.2
Н	3808.3	649.8	390.6	947.2	2192.1	*	*	677.6	*	*	3432.9	12098.5
I	4347.3	1450.5	7051.2	233.5	1340.5	*	*	5250.2	6197.7	*	4327.4	30198.2
J+K	7486.5	1241.5	3793.9	1791.7	3273.4	726.1	138.4	2549.8	3240.4	*	1296.7	25538.4
L+M	4749.3	258.2	1482.5	5344.3	790.5	*	*	*	516.3	*	1241.6	14382.8
N	3025.6	*	275.0	*	1908.6	*	*	917.3	711.3	*	1413.2	8251.0
O,P+Q	6710.4	280.5	1185.8	1246.6	689.9	*	*	761.9	3065.0	*	2503.7	16443.9
Total	58027.6	21093.8	59079.4	10022.3	13937.6	1613.4	4327.4	31272.8	32719.9	2046.7	29055.1	263196.0

Note: * = estimated number of injuries too small for reporting

	Female, GB, 1996 eportable Injury excluding road											
Reportable												
SOC sub-major group												
Industry Sections	1.1 - 4.2	5.2	5.1, 5.3	6.1	6.2	7.1	7.2	8.1	8.2	9.1	9.2	Total
A+B	278.8	*	7.2	*	*	*	*	*	*	330.4	*	616.4
С	162.9	*	*	*	*	*	*	*	*	*	*	162.9
D+E	2085.9	149.0	3429.7	*	403.6	118.4	106.6	5325.8	493.7	*	581.7	12694.5
F	864.1	94.1	*	*	*	*	*	342.2	*	*	59.0	1359.4
G	4375.8	209.1	579.5	271.9	2103.7	354.4	11765.7	1635.4	211.0	*	914.7	22421.1
Н	2410.5	*	*	*	3361.7	*	547.1	*	50.5	*	3592.5	9962.3
1	885.6	*	*	98.6	736.8	*	71.0	1025.8	79.9	*	572.6	3470.4
J+K	7518.8	103.1	300.2	189.8	5236.2	503.5	148.3	504.3	124.1	*	724.2	15352.6
L+M	6728.4	*	296.8	1876.4	2456.1	*	*	*	216.2	*	3528.2	15102.1
N	18293.9	*	*	*	12697.7	*	*	*	136.9	*	3974.5	35103.0
O,P+Q	2623.4	*	*	56.0	440.2	*	129.7	570.2	*	*	657.3	4476.7
Total	46228.2	555.2	4613.5	2492.7	27436.0	976.3	12768.4	9403.8	1312.2	330.4	14604.7	120721.3

	Female, GB, 2006												
Reportable	eportable Injury excluding road												
SOC sub-major group													
Industry sections	1.1 - 4.2	5.2	5.1, 5.3	6.1	6.2	7.1	7.2	8.1	8.2	9.1	9.2	Total	
A+B	227.1	*	6.2	*	*	*	*	*	*	332.3	*	565.6	
С	131.5	*	*	*	*	*	*	*	*	*	*	131.5	
D+E	1885.6	174.2	2654.7	*	454.4	116.0	88.4	4902.1	474.3	*	286.3	11035.9	
F	1183.6	175.3	*	*	*	*	*	513.6	*	*	40.4	1913.0	
G	4803.5	326.1	580.8	353.1	3209.6	446.6	13342.9	1926.9	274.0	*	374.6	25638.3	
Н	2368.1	*	*	*	4624.2	*	574.0	*	58.5	*	4501.1	12125.9	
I	964.9	*	*	136.7	1107.7	*	72.6	1209.4	95.5	*	490.7	4077.6	
J+K	9433.2	182.7	355.1	281.8	9309.0	689.9	191.1	733.9	187.5	*	551.3	21915.5	
L+M	7640.4	*	261.4	2101.1	3167.4	*	*	*	240.6	*	1142.3	14553.1	
N	20425.1	*	*	*	16147.4	*	*	*	148.3	*	1610.5	38331.3	
O,P+Q	3067.9	*	*	80.0	661.6	*	146.2	691.2	*	*	384.4	5031.3	
Total	52130.9	858.3	3858.2	2952.8	38681.2	1252.5	14415.3	9977.2	1478.6	332.3	9381.8	135318.9	

Note: * = estimated number of injuries too small for reporting

				GB, Chai	nge in Emp	oloyment 19	96 - 2006					
Males												
	1.1 - 4.2	5.2	5.1, 5.3	6.1	6.2	7.1	7.2	8.1	8.2	9.1	9.2	Total
Agriculture etc.	-12353	844	2462	359	199	-35	309	22249	221	-47352	0	-33097
Mining, quarrying	-3188	-2966	-3301	-46	26	-326	-19	-2388	-2483	0	-2062	-16753
Manufacturing, utilities	55139	-116792	-66697	4617	8315	-28118	-1233	-7967	-18742	0	-12078	-183556
Construction	53959	-13659	-12030	1520	2170	-2211	47	7530	4110	0	7284	48720
Wholesale, retail, repair	49995	-3697	7658	5549	52367	-27235	27803	24645	18532	0	14332	169949
Hotels, restaurants	57888	1317	5481	5442	107331	-50	2622	4743	4583	0	32105	221462
Transport communications	12198	-18140	-26290	2552	8062	-2588	-433	-4006	-10388	0	-4321	-43354
Financial services	536358	1679	8715	34761	36161	-27448	1644	11716	11974	0	9562	625122
Public admin, education	-64383	-10299	-17423	-19684	-1581	-3108	-1023	-11217	-12259	0	-25751	-166728
Health, social work	3899	-4662	-6532	377	7764	-789	-424	-2812	-3319	0	-6338	-12836
Community, other	117774	492	2953	10571	25892	-991	684	8574	8387	0	8635	182971
Total	807286	-165883	-105004	46018	246706	-92899	29977	51067	616	-47352	21368	791900

GB, Change in Employment 1996 – 2006												
Females	SOC sub-major group											
	1.1 - 4.2	5.2	5.1, 5.3	6.1	6.2	7.1	7.2	8.1	8.2	9.1	9.2	Total
Agriculture etc.	-8577	43	-114	5	331	11	-60	173	1	203	0	-7984
Mining, quarrying	-1286	0	-33	-1	-22	-4	-18	-84	-9	0	-124	-1581
Manufacturing, utilities	-48355	3477	-55387	-25	5936	-364	-4397	-21270	-1026	0	-23911	-145322
Construction	51763	953	4647	87	4966	2187	1158	1448	154	0	-1498	65865
Wholesale, retail, repair	71182	2232	98	1357	90506	9803	131322	10880	1812	0	-23941	295251
Hotels, restaurants	-4893	139	-129	125	113436	92	1970	924	74	0	60434	172172
Transport communications	22545	415	-523	758	13730	1750	206	4880	528	0	-2736	41553
Financial services	419024	1155	2642	2495	135597	20681	9388	14288	1593	0	-20366	586497
Public admin, education	194793	244	-1341	4774	56713	570	-209	1070	242	0	-130016	126840
Health, social work	172897	283	-1973	180	127573	179	-806	1234	325	0	-93634	206258
Community, other	56821	193	43	1416	75496	666	1570	4899	606	0	-29518	112192
Total	925914	9134	-52070	11171	624262	35571	140124	18442	4300	203	-265310	1451741



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