Self-reported work-related illness and workplace injuries in 2008/09: Results from the Labour Force Survey
A National Statistics publication

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Revision Note May 2011:

Figures in the document text may not correspond with those obtained from using the hyperlinks. The 2008/09 results have been revised (May 2011) due to the reclassification of a small number of cases. Please see Revision Log for full explanation.
Introduction

This report presents detailed results from the ‘workplace accident’ and ‘work-related illness’ modules of the 2009 Labour Force Survey (LFS)\(^1\). Some broad comparisons of the latest results with those from earlier surveys are also presented.

Whilst results from the 2009 LFS suggest that both workplace injury and work-related illness have decreased since the start of the century, they largely confirm findings from earlier surveys in terms of the relative make-up of injury and illness.

This report is supported by a full range of tables, providing self-reported results from the LFS by a range of demographic and employment-related variables (see http://www.hse.gov.uk/statistics/lfs/index.htm).

Background

Each year HSE sponsors two survey modules in the LFS, a national population based government survey providing a wealth of information about the labour force. The ‘workplace injury’ module, included annually since 1992, allows estimates of the scale of workplace injuries and more recently estimates of the resulting working days lost. The ‘work-related illness’ module, included annually since 2003/04 and periodically prior to then, allows estimates of the scale of work-related ill health and estimates of the resulting working days lost. Estimates of both workplace injury and work-related illness from the LFS are referred to as ‘Self-reported’ estimates. This is particularly important for work-related illness, where the estimates represent an individual’s perception of the contribution that work made to the illness, rather than a medically verified estimate.

Self-reports of work-related illness whilst not an exact measurement of the ‘true’ extent of work-related illness, do provide a reasonable indicator. Extensive follow-up work to the 1995 survey confirmed high rates of agreement between individuals and their GPs as to the contribution that work made to the illness. Only in a minority of cases did an individual’s GP report that in their opinion work was an unrelated factor to the illness. Whilst agreement between individual and GP was found to be generally good across all illness types, the agreement was particularly high for cases of self-reported stress, depression or anxiety and musculoskeletal disorders. HSE are currently conducting further research into the reliability of measures of work related illness derived from the Labour Force Survey.

Information on workplace injuries and work-related illness from the LFS complements information from a range of other sources – there is no one definitive source for either workplace injuries or work-related illness. In the publication ‘Health and Safety Statistics 2008/09’ a range of data sources are drawn together to present the latest top-level picture of work-related illness and workplace injuries. However, data presented in this report are based solely on self-reported data from the LFS. Whilst this information is valuable in its own right, readers should recognise that the data is from the perspective of individual’s perceptions. Other data sources, based on alternative perspectives (e.g. reports from specialist doctors of cases of work-related illness presenting to them) may not always agree entirely with the self-reported data.

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\(^1\) Summary results, relating to work-related illness and workplace injury in 2008/09, have previously been provided in the HSE publication ‘Health and Safety Statistics 2008/09’. (see http://www.hse.gov.uk/statistics/overall/hssh0809.pdf)
Overall picture

Results from the Labour Force Survey suggest that in 2008/09:

**Ill health**

- 1.2 million people who worked during the last year\(^2\) were suffering from an illness (long-standing as well as new cases) they believed was caused or made worse by their current or past work, equating to 3900 per 100,000 people (3.9%)
  - Musculoskeletal disorders were by far the most common with 538,000 people who had worked in the last year suffering, followed by stress, depression or anxiety with 415,000 people. (see Figure 1 and [http://www.hse.gov.uk/statistics/lfs/swit3w12.xls](http://www.hse.gov.uk/statistics/lfs/swit3w12.xls)).

![Figure 1: Estimated 2008/09 prevalence of self-reported work-related illness, by type of complaint, for people working in the last 12 months](http://www.hse.gov.uk/statistics/lfs/swit3w12.xls)

- 551,000 of these were new (incidence) cases of work-related illness. In terms of people working in the last 12 months, this equates to a rate of 1800 per 100,000 people (1.8%).
- Stress, depression or anxiety and musculoskeletal disorders accounted for a large proportion of new cases, 230,000 and 191,000 respectively. (see [http://www.hse.gov.uk/statistics/lfs/swit6w12.xls](http://www.hse.gov.uk/statistics/lfs/swit6w12.xls)).

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\(^2\) A programming error in the computer aided interviewing restricted the coverage of ‘work-related’ illness module to people working in the last 12 months rather than people ever employed (as in earlier surveys). Therefore, all results are based on people who worked in the last 12 months.
• Industry sectors³ ‘health and social work’ and ‘public administration and defence’ had prevalence rates of work-related illness statistically significantly higher than average (three-year average) (see http://www.hse.gov.uk/statistics/lfs/wrind2_3yr.xls).

• Occupational groups with prevalence rates of work-related illness statistically significantly higher than average (three-year average) were ‘health and social welfare associate professionals’, ‘protective services occupations’, ‘skilled agricultural trades’, ‘teaching and research professionals’, ‘skilled construction and building trades’, ‘leisure and other personal service occupations’, ‘skilled metal and electrical trades’ and ‘caring personal service occupations’ (see http://www.hse.gov.uk/statistics/lfs/wriocc2_3yr.xls).

Injury

• Reportable non-fatal injuries include all those workplace injuries sustained as a result of an accident (excluding road traffic accidents), resulting in over 3 days absence from work. An estimated 246 000 non-fatal reportable injuries occurred in 2008/09, a rate of 870 per 100 000 workers (0.87%) (see http://www.hse.gov.uk/statistics/lfs/lfsinj1.xls).

• Industry sectors³ with statistically significantly higher than average incidence rates (three-year average) of reportable non-fatal injuries included ‘agriculture, hunting, forestry and fishing’, ‘transport, storage and communication’ and ‘construction’ (see http://www.hse.gov.uk/statistics/lfs/injind1_3yr.xls).

• Occupational groups carrying statistically significantly higher than average reportable non-fatal injury incidence rates (three-year average), (where sample numbers were sufficiently large to provide reliable estimates), were ‘skilled agricultural trades’, ‘transport and mobile machine drivers and operatives’, ‘elementary trades, plant and storage related occupations’, ‘skilled construction and building trades’, ‘skilled metal and electrical trades’, ‘process, plant and machine operatives’, ‘caring personal service occupations’ and ‘elementary administration and service occupations’ (see http://www.hse.gov.uk/statistics/lfs/injocc1_3yr.xls).

Days lost

• In 2008/09, 29.3 million working days were lost overall (1.2 days per worker), 24.6 million due to work-related illness (1 day per worker) and 4.7 million due to workplace injury (0.20 days per worker). Working days lost are expressed as full-day equivalents, to allow for the variation in daily hours worked (see http://www.hse.gov.uk/statistics/lfs/swit1.xls).

• On average, each person suffering from a work-related illness or a workplace injury took an estimated 15.9 days off work in the last 12 months (on average 20.8 days for ill health and 6.5 days for injury) (see http://www.hse.gov.uk/statistics/lfs/swit1.xls).

³ The break down by industry section for 2008/09 may not be entirely consistent with those in previous years. This is because a new Standard Industrial Classification, SIC2007, has been introduced to replace the existing classification SIC92. To allow comparisons with earlier years, each class under SIC2007 has been mapped to a section under SIC92, according to the assumed relationship between the two classifications. It is currently assumed that the effect of the changes on the time series is not significant, but further analysis is being undertaken by the Office for National Statistics (ONS).
Comparison with earlier years

- The prevalence rate of self-reported work-related illness in 2008/09, for people working in the last 12 months, was similar to that in 2005/06, but statistically significantly lower than in 2007/08, 2006/07, 2004/05, 2003/04 and 2001/02 (see Figure 2 and http://www.hse.gov.uk/statistics/lfs/swit3w12.xls).

![Figure 2: Estimated prevalence rates of self-reported work-related illness, by main type of complaint, for people who worked in the last 12 months, 2001/02, 2003/04 - 2008/09](http://www.hse.gov.uk/statistics/lfs/swit3w12.xls)

- The incidence rate of work-related illness showed a sharp increase in 2006/07, despite earlier indications of a downward trend from 2001/02 to 2005/06. However, the rate in 2007/08 was statistically significantly lower than that in 2006/07, and the most recent rate in 2008/09 was of a similar order to that in 2007/08. (see Figure 3 and http://www.hse.gov.uk/statistics/lfs/swit6w12.xls).

  - While the incidence rate has fluctuated in recent years, research to date indicates that the discontinuity appears to be genuine. The fall in 2005/06 is driven primarily by a sharp decrease in stress, depression or anxiety. The increase in the overall incidence rate in 2006/07 is mainly as a result of stress, depression or anxiety returning to its previous level and musculoskeletal disorders increasing sharply, before reverting to the long term trend in 2007/08. The corresponding rates in 2008/09 were of a similar order to those in 2007/08. (see http://www.hse.gov.uk/statistics/pdf/lfsissue1.pdf for more details of research).
The incidence rate of reportable non-fatal injuries to workers remained relatively stable between 1999/00 to 2002/03, but has since followed an overall downward trend. The rate in 2008/09 was statistically significantly lower than that in all previous years (see Figure 4 and http://www.hse.gov.uk/statistics/lfs/lfsinj1.xls).
Working days lost are available for 2000/01 (injuries only), 2001/02 (ill health only) and 2003/04-2008/09 (injuries and ill health). Combined 2000/01 injury data and 2001/02 ill health data is classed as 2000-02. The estimated days lost per worker due to ill health and injury in 2008/09 was statistically significantly lower than those in earlier surveys, with the exception of 2005/06 where the rate was a similar order. (see Figures 5 and http://www.hse.gov.uk/statistics/lfs/swit1.xls).

Figure 5: Estimated working days lost per (full-time equivalent) worker due to work-related ill health and workplace injuries, 2000-02, 2003/04-2008/09

![Diagram showing estimated working days lost per worker due to work-related ill health and workplace injuries.](http://www.hse.gov.uk/statistics/lfs/swit1.xls)
• Stress, depression or anxiety and musculoskeletal disorders accounted for the majority of days lost in 2008/09, with an estimated 11.4 million and 9.3 million days off work (full-day equivalent) respectively (see Figures 6 and 7 and http://www.hse.gov.uk/statistics/lfs/swit1.xls).

• For musculoskeletal disorders, the average days lost per worker equated to an annual loss of 0.39 days per worker in 2008/09. This rate was similar to those in each of the three previous surveys (2005/06 – 2007/08) but statistically significantly lower than in each of the three years from 2001/02. The 2008/09 rate of 0.48 days per worker for stress, depression or anxiety was of a similar order to those in earlier years, with the exception of 2006/07; where the rate was statistically significantly lower (see Figure 6 and http://www.hse.gov.uk/statistics/lfs/swit1.xls).

Figure 6: Estimated average days lost per (full-time equivalent) worker due to self-reported illness caused or made worse by work, by main type of complaint, 2001/02, 2003/04-2008/09

• In 2008/09, the average days lost per case for stress, depression or anxiety, at 27.5 days, was statistically significantly higher than that for musculoskeletal disorders, at 17.2 and also than that for ‘other illnesses’ (illnesses other than musculoskeletal disorders and stress, depression or anxiety), at 18.8 days. This pattern was also true in the earlier surveys. However, across the seven surveys, the respective rates for musculoskeletal disorders, stress, depression or anxiety and ‘other illnesses’ remained broadly constant (see Figure 7 and http://www.hse.gov.uk/statistics/lfs/swit1.xls).

Figure 7: Estimated days (full-day equivalent) off work and average days lost per case due to self-reported illness caused or made worse by work, by main type of complaint, 2001/02, 2003/04-2008/09
All musculoskeletal disorders (bone, joint or muscle problems)

**Prevalence**

- In 2008/09, an estimated 538,000 people in Great Britain, who worked in the last year, suffered from a musculoskeletal disorder they believe was caused or made worse by their current or past work. This equates to 1800 per 100,000 people (1.8%) who worked in the last 12 months in Great Britain, similar to that in 2007/08 but statistically significantly lower than in earlier years, except in 2005/06, where the rate was of a similar order (see Figures 1 and 8 and [http://www.hse.gov.uk/statistics/lfs/swit3w12.xls](http://www.hse.gov.uk/statistics/lfs/swit3w12.xls)).

![Figure 8](http://www.hse.gov.uk/statistics/lfs/swit3w12.xls)

- Of the estimated prevalence of individuals suffering from a work-related musculoskeletal disorder in 2008/09, an estimated 227,000 (42%) suffered from a disorder mainly affecting their back, 215,000 (40%) from a disorder mainly affecting their upper limbs or neck, and 96,000 (18%) mainly affecting their lower limbs (see Figure 1 and [http://www.hse.gov.uk/statistics/lfs/swit3w12.xls](http://www.hse.gov.uk/statistics/lfs/swit3w12.xls)).
**Incidence**

- Around one third (191,000) of the estimated prevalence of work-related musculoskeletal disorders were new (incidence) cases. This equates to an estimated incidence rate of 630 per 100,000 people (0.63%) who worked in the last 12 months. Whilst this rate has fluctuated in recent years, in 2008/09 it was statistically significantly lower than in both 2001/02 and 2006/07 (see Figure 9 [http://www.hse.gov.uk/statistics/lfs/swit6w12.xls]).

**Days lost**

- In 2008/09, an estimated 9.3 million working days (full-day equivalent) were lost through work-related musculoskeletal disorders. Around three-quarters of these were accounted for by conditions mainly affecting the upper limb or neck and back, with 3.8 million days and 3.5 million days respectively. The remaining 2 million days was attributed to disorders mainly affecting the lower limbs (see [http://www.hse.gov.uk/statistics/lfs/swit1.xls]).

- On average, each person suffering from a work-related musculoskeletal disorder took an estimated 17.2 days off in 2008/09, equating to an annual loss of 0.39 days per worker. This rate was of a similar order to the rate in each of the three previous surveys (2005/06 – 2007/08) but statistically significantly lower than those in earlier years. (see Figure 10 and [http://www.hse.gov.uk/statistics/lfs/swit1.xls]).
Employment-related details

- Industry sectors³ ‘agriculture, hunting, forestry and fishing’, ‘construction’, ‘health and social work’, ‘other community, social and personal service activities’ and ‘transport, storage and communication’ had prevalence rates (three-year average) of work-related musculoskeletal disorders statistically significantly higher than average (see http://www.hse.gov.uk/statistics/lfs/msdind2_3yr.xls).

Musculoskeletal disorders (bone, joint or muscle problems) mainly affecting the back

Prevalence

- In 2008/09, an estimated 227 000 people in Great Britain who had worked in the last year believed they were suffering from a musculoskeletal disorder mainly affecting the back that was caused or made worse by their current or past work. This equates to 750 per 100 000 people (0.75%) in Great Britain who worked in the last 12 months (see Figures 1 and 8, and http://www.hse.gov.uk/statistics/lfs/swit3w12.xls).
- This prevalence rate was statistically significantly lower than those in earlier surveys with the exception of 2005/06 and 2007/08, where the rates were of a similar order. (see http://www.hse.gov.uk/statistics/lfs/swit3w12.xls).

Incidence

- Just under a third of sufferers in 2008/09, an estimated 73 000 people, first became aware of their work-related musculoskeletal disorder mainly affecting the back in the previous 12 months. This equates to an estimated 240 per 100 000 people (0.24%) who worked in the last 12 months, with a new work-related musculoskeletal disorder mainly affecting the back in this period (see Figure 9 and http://www.hse.gov.uk/statistics/lfs/swit6w12.xls).
- This incidence rate was statistically significantly lower than in both 2001/02 and 2006/07, but of a similar order to those in 2003/04, 2004/05, 2005/06 and 2007/08. (see http://www.hse.gov.uk/statistics/lfs/swit6w12.xls).

Days lost

- An estimated 3.5 million working days (full-day equivalent) were lost in 2008/09 through musculoskeletal disorders mainly affecting the back caused or made worse by work. On average, each person suffering took an estimated 15.5 days off in that 12 month period. This equates to an annual loss of 0.15 days per worker (see Figure 10 and http://www.hse.gov.uk/statistics/lfs/swit1.xls).
- The number of days lost per worker in 2008/09 was statistically significantly lower than in 2001/02 and 2003/04, but of a similar order to other years over the period 2004/05 to 2007/08 (see Figure 10 and http://www.hse.gov.uk/statistics/lfs/swit1.xls).

Employment-related details

- Industry sectors with statistically significantly higher than average prevalence rates (three-year average) of work-related musculoskeletal disorders mainly affecting the back, (where sample sizes were large enough to provide reliable estimates), were ‘agriculture, hunting, forestry and fishing’, ‘health and social work’, ‘construction’ and ‘transport, storage and communication’ (see http://www.hse.gov.uk/statistics/lfs/backind2_3yr.xls).
- Occupation groups with prevalence rates (three-year average) of work-related musculoskeletal disorders mainly affecting the back statistically significantly higher than average, (where sample numbers were sufficiently large to provide reliable estimates), were ‘health and social welfare associate professionals’, ‘skilled agricultural trades’, ‘skilled construction and building trades’, ‘transport and mobile machine drivers and operatives’, ‘caring personal service occupations’, ‘skilled metal and electrical trades’, and ‘elementary trades, plant and storage related occupations’. (see http://www.hse.gov.uk/statistics/lfs/backocc2_3yrsig.xls).
Musculoskeletal disorders (bone, joint or muscle problems) mainly affecting the upper limbs or neck

Prevalence

- In 2008/09, an estimated 215,000 people in Great Britain who had worked in the last year believed they were suffering from a musculoskeletal disorder mainly affecting the upper limbs or neck that was caused or made worse by their current or past work. This equates to 710 per 100,000 people (0.71%) in Great Britain who worked in the last 12 months. (see Figures 1 and 8, and http://www.hse.gov.uk/statistics/lfs/swit3w12.xls).
- This prevalence rate was statistically significantly lower than in both 2003/04 and 2006/07, but of a similar order to those in 2001/02, 2004/05, 2005/06 and 2007/08. (see http://www.hse.gov.uk/statistics/lfs/swit3w12.xls).

Incidence

- Just over a third of sufferers in 2008/09, 84,000 people, first became aware of their work-related musculoskeletal disorder mainly affecting the upper limbs or neck in the previous 12 months. This equates to an estimated 280 per 100,000 people (0.28%) with a new work-related musculoskeletal disorder mainly affecting the upper limbs or neck in this period (see Figure 9 and http://www.hse.gov.uk/statistics/lfs/swit6w12.xls).
- This incidence rate was statistically significantly lower than in 2006/07, but of a similar order to the corresponding rates in 2001/02, 2003/04 - 2005/06 and 2007/08. (see http://www.hse.gov.uk/statistics/lfs/swit6w12.xls).

Days lost

- An estimated 3.8 million working days (full-day equivalent) were lost in 2008/09 through musculoskeletal disorders mainly affecting the upper limbs or neck caused or made worse by work. On average, each person suffering took an estimated 17.5 days off in that 12 month period. This equates to an annual loss of 0.16 days per worker (see Figure 10 and http://www.hse.gov.uk/statistics/lfs/swit1.xls).
- The number of days lost per worker in 2008/09 was of a similar order to those in all previous years (see Figure 10 and http://www.hse.gov.uk/statistics/lfs/swit1.xls).

Employment related details

- Industry sectors with statistically significantly higher than average prevalence rates (three-year average) of work-related musculoskeletal disorders mainly affecting the upper limbs or neck, (where sample sizes were large enough to provide reliable estimates), were ‘manufacturing’ and ‘other community, social and personal service activities’ (see http://www.hse.gov.uk/statistics/lfs/ulnind2_3yr.xls).
- Occupation groups with statistically significantly higher than average prevalence rates (three-year average) of work-related musculoskeletal disorders mainly affecting the upper limbs or neck, (where sample numbers were sufficiently large to provide reliable estimates), were ‘culture, media and sports occupations’, ‘process, plant and machine operatives’, ‘skilled construction and building trades’ and ‘health and social welfare associate professionals’ (see http://www.hse.gov.uk/statistics/lfs/ulnocc2_3yr.xls).
Stress, depression or anxiety

Prevalence

- In 2008/09 an estimated 415,000 people in Great Britain, who worked in the last year, believed that they were suffering from stress, depression or anxiety caused or made worse by their current or past work. This equates to 1400 per 100,000 people (1.4%) who worked in the last 12 months in Great Britain (see Figures 1 and 2, and http://www.hse.gov.uk/statistics/lfs/swit3w12.xls).

- This prevalence rate of self-reported work-related stress, depression or anxiety in 2008/09 was statistically significantly lower than in 2006/07, 2003/04 and 2001/02, but similar to those in 2007/08 and 2004/05. Furthermore, the rate in 2005/06 was statistically significantly lower than that in 2008/09 and in all other years too. (see Figure 2 and http://www.hse.gov.uk/statistics/lfs/swit3w12.xls).

Incidence

- An estimated 230,000 people, first became aware of work-related stress, depression or anxiety in 2008/09, giving an annual incidence rate of 760 cases per 100,000 people (0.76%). (See Figure 3 and http://www.hse.gov.uk/statistics/lfs/swit6w12.xls).

- The incidence rate of self-reported work-related stress, depression or anxiety in 2008/09 was similar to those over the years from 2003/04, with the exception of 2001/02 where the incidence rate was statistically significantly lower (see Figure 3 and http://www.hse.gov.uk/statistics/lfs/swit6w12.xls).

Days lost

- An estimated 11.4 million working days (full-day equivalent) were lost in 2008/09 through self-reported stress, depression or anxiety caused or made worse by work. On average, each person suffering took an estimated 27.5 days off in that 12 month period. This equates to an annual loss of 0.48 days per worker (see Figures 6 and 7, and http://www.hse.gov.uk/statistics/lfs/swit1.xls).

- The number of days lost per worker in 2008/09 was of a similar order to those in earlier years, with the exception of 2006/07, where the rate was statistically significantly higher than in 2008/09 (see Figure 6 and http://www.hse.gov.uk/statistics/lfs/swit1.xls).

Employment related details

- Industry sectors³ with statistically significantly higher than average prevalence rates (three-year average) of work-related stress, depression or anxiety, (where sample sizes were large enough to provide reliable estimates), were ‘public administration and defence’, ‘health and social work’ and ‘education’ (see http://www.hse.gov.uk/statistics/lfs/strind2_3yr.xls).

- Occupation groups with statistically significantly higher than average prevalence rates (three-year average) of self-reported work-related stress, depression or anxiety, (where sample numbers were sufficiently large to provide reliable estimates), were ‘health and social welfare associate professionals’, ‘teaching and research professionals’, ‘corporate managers’ and ‘business and public service associate professionals’ (see http://www.hse.gov.uk/statistics/lfs/strocc2_3yr.xls).
Technical annex

The Labour Force Survey (LFS) is a large nationally representative survey of about 50 000 responding households that provides a wealth of information about the Labour Force. It asks individuals about their current or most recent job, as well as enquiring about related topics such as training, qualifications and income. The survey is managed by the Office for National Statistics in Great Britain and by the Department of Finance and Personnel in Northern Ireland on behalf of the Department of Enterprise, Trade and Investment (DETI).

The HSE commissions questions in the LFS, taking advantage of existing arrangements for sampling and interviewing a large nationally representative sample, to gain a view of work-related illness and workplace injury based on individual’s perceptions. The HSE questions are included in two survey modules - ‘The Workplace Injury survey’ module and the ‘Self-reported Work-related Illness (SWI) survey’ module. The ‘Workplace Injury survey’ module has been included annually since 1992/93, whilst the ‘SWI survey’ module were included on an ad hoc basis until 2003/04, since when questions have appeared annually.

The Workplace Injury survey module, which asks as it’s screening question:

“Thinking of the 12 months since [date], have you had any accident resulting in injury at work or in the course of your work?”

is administered to individuals who reported to have worked at some point in the last 12 months, whilst the SWI survey module which asks as its screening question:

“Within the last 12 months have you suffered from any illness, disability or other physical or mental problem that was caused or made worse by your job or by work you have done in the past?”

is intended to be administered to all individuals who reported to have worked at some point during their life. However, due to a routing error in the 2007/08 survey, coverage of the SWI survey module was restricted to people working in the last 12 months rather than people ever employed (as in earlier surveys from 2001/02). For comparability with earlier time periods, a top-level prevalence estimate relating to all work-related ill health for people ever employed has been imputed for 2007/08. However, this imputation has not been made at lower levels since the imputation process becomes less precise at more disaggregated levels. All other published estimates for 2007/08 are restricted to people working in the last 12 months.

Definitions:

For injuries: Information is presented as estimated incidence and rates of reportable non-fatal injuries where:

- **Estimated injury incidence** is the estimated number of people reporting a workplace injury in the 12 months prior to interview (the reference period);
- **Injury Incidence rate** is defined as the injury incidence estimate divided by the annual estimate of employment (this is taken as the number of individuals reporting themselves as currently employed);
- **Reportable non-fatal injury** aligns the estimates with statutory reports of non-fatal workplace injury by employers under HSE’s Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (which whilst offering more depth suffers from under-reporting). It includes those self-reported accidents resulting in 4 or more days off work

For illness, the LFS gives estimates of the number of people who have conditions which they think have been caused or made worse by work (regardless of whether they have been seen by doctors). Information is presented as estimated prevalence and rates of self-reported illness and estimated incidence and rates of self-reported illness where:

- **Estimated prevalence** is the estimated number of people with a work-related illness at any time during the 12-month reference period. It includes the full range of illnesses from long standing to new cases;
- **Prevalence rate** is defined as the prevalence estimate divided by the population at risk of having a work-related illness;
• **Estimated incidence** is the estimated number of new cases of work-related illness occurring in the 12 month reference period i.e. people first becoming aware of their illness in this 12 month period;

• **Incidence rate** is defined as the incidence estimate (restricted to individuals working in the 12 month period) divided by the population at risk of experiencing a new case of work-related illness during the reference period.

For **working days lost**, the LFS gives estimates and rates of the total number of days off work due to work-related illness and/or workplace injury where:

• **Working days lost** are expressed as full-day equivalent days to allow for variation in daily hours worked and includes days lost due to all non-fatal injuries (not just reportable non-fatal injuries) and all work-related illness (new and long standing cases);

• **Rates** presented are in the form of average annual working days lost (full-day equivalent) per case of work-related illness and average annual working days lost (full-day equivalent) per full-time equivalent worker.

All estimates are presented by a range of demographic and employment-related variables, with the level dependent on the level at which the data was collected in the LFS (e.g. individual characteristics such as age and sex are available for all survey subjects. Employment related information such as occupation and industry are only available for those who are currently in work or whose most recent job was in the last 8 years).

**Statistical significance and confidence intervals**

All LFS based population estimates are subject to sampling error, or uncertainty, since they are based on a sample of individuals rather than the whole population. **95% confidence intervals** are quoted to indicate the range of uncertainty due to this: each of these shows the range of values which we are 95% confident contains the true value (i.e. the value that would have been found if the entire population had been surveyed) in the absence of bias. Correspondingly, a difference between two estimates is described as “statistically significant” if there is a less than 5% chance that it is due to sampling error alone.

The main factor that determines the size of the confidence interval around an estimate is the size of the group for which the estimate is being derived – the smaller the group the less precise the estimate. For estimates based on less than 30 sample cases (which equates to an incidence/prevalence estimate of about 15 000) confidence intervals should be quoted in preference to the prevalence or incidence central estimate or rate i.e. figures shown in italics within the tables. In order to reflect some of the variability in the days lost estimates (measure from person to person) as well as the sample numbers involved, confidence intervals should be quoted for days lost estimates and rates based on fewer than 40 cases taking time off, also shown in italics. Estimates based on fewer than 20 sample cases (which equates to an incidence/prevalence of about 10 000 cases) are not published as they are likely to be unreliable.

**Three-year averages**

One way of increasing the reliability of survey data is to increase the sample size on which it is based. Whilst the annual sample size is fixed, several years’ worth of data can be pooled to produce estimates for the average of the combined years. Some results – particularly for workplace injury but also for work-related illness by industry and occupation where the number of annual sample cases at detailed levels tend to be low - have been produced in this way by pooling the three years worth of data from 2006/07, 2007/08 and 2008/09.

For more details about the survey design and methods used (see [http://www.hse.gov.uk/statistics/lfs/technicalnote.htm](http://www.hse.gov.uk/statistics/lfs/technicalnote.htm)).

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5 The Standard Industrial Classification 1992 (SIC92) is used to classify the respondents’ industry of employment. For more details please see [http://www.statistics.gov.uk/methods_quality/sic/contents.asp](http://www.statistics.gov.uk/methods_quality/sic/contents.asp).