Waste statistics in Great Britain, 2020

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This document can be found at www.hse.gov.uk/statistics/industry/waste-recycling/waste-recycling.pdf
Key statistics in the Waste sector in Great Britain, 2020

5,000 workers suffering from work-related ill health (new or long- standing) each year

Source: LFS, estimated annual average 2010/11, 2011/12, 2013/14-2019/20. A nine-year period is used to enable a combined percentage of musculoskeletal disorders and Stress, depression or anxiety to be shown. Due to the low number of sample cases on which estimates are based, the percentages have been omitted from the chart.

5 fatal injuries to workers in 2019/20

This compares to an annual average number of 9 fatalities for 2015/16-2019/20

Source: RIDDOR

4,000 Workers sustain non-fatals injuries at work each year

Source: LFS, estimated annual average 2013/14-2019/20 (latest 7 years)
Introduction

This report provides a profile of workplace health and safety for workers in the waste sector.

For this report, the waste sector has been defined with reference to the Standard Industrial Classification (SIC)\(^1\), an internationally agreed classification of industries, and includes the following activities: waste collection, treatment and disposal activities; and materials recovery (SIC 38).

Some activities associated with waste fall outside of this definition of the waste sector. Most notably the wholesale of waste and scrap\(^2\) (including collecting, sorting, separating and stripping of used goods) is an industry that is often associated with the waste sector, but within the Standard Industrial Classification is classified in the wholesale and retail trade sector. The wholesale of waste and scrap industry is small relative to the waste sector: statistics show the contribution of the wholesale of waste and scrap to the totality of work-related illness and injury in the combined sector (including both waste and wholesale of waste and scrap) to be small. Further, the rate of illness and injury is broadly similar for the combined industry group and the waste sector on its own. Therefore, statistics in this report are presented for the waste sector only (SIC 38) and do not include wholesale of waste and scrap.

The waste sector (as defined by SIC 38) accounts for around 0.3\(^3\) of the jobs in Great Britain. This report considers the current health and safety situation for the waste sector, with a focus on the scale and profile of work-related illness and injury in workers in the sector.

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\(^1\) The Waste sector is defined as SIC 38 in Section E of the 2007 Standard Industrial Classification. See www.ons.gov.uk/methodology/classificationsandstandards/ukstandardindustrialclassificationofeconomicactivities/uksic2007 for more details.

\(^2\) Wholesale of waste and scrap industry is defined as class 46.77 within the 2007 Standard Industrial Classification

\(^3\) Annual Population Survey 2019
Work-related ill health

All illness

In Waste:

- There were an estimated 5,000 work-related ill health cases annually (new or long-standing)
- Around three-quarters of these were suffering from musculoskeletal disorders or stress, depression or anxiety
- The remaining workers were suffering from other types of illness, such as skin or respiratory conditions

Source: LFS, estimated annual average 2010/11, 2011/12, 2013/14-2019/20 (latest 9 years)

Waste compared with other selected industries#

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rate per 100,000 workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste</td>
<td>4,130 (4.1%)</td>
</tr>
<tr>
<td>Agriculture, forestry and fishing</td>
<td>4,290 (4.3%)</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>2,750 (2.7%)</td>
</tr>
<tr>
<td>Construction</td>
<td>3,510 (3.5%)</td>
</tr>
<tr>
<td>Human health and social work activities</td>
<td>4,620 (4.6%)</td>
</tr>
<tr>
<td>All industries</td>
<td>3,270 (3.3%)</td>
</tr>
</tbody>
</table>

- 4.1% of workers in Waste suffered from work-related ill health annually (new or long standing cases). While higher than the rate for workers across All industries (3.3%), the difference is not statistically significant
- This rate is similar to Agriculture, forestry and fishing (4.3%), Construction (3.5%) and Human health and social work activities (4.6%)

Source: LFS, estimated annual average 2013/14-2019/20 (latest 7 years). 95% confidence intervals are shown on the chart

# Selected industries are generally those with either higher rates of work-related ill health or workplace injury compared to the rate for All industries
Workplace injuries

Fatal injuries

In Waste:
- There were 5 fatal injuries in 2019/20
- This compares to an annual average number of 9 fatalities over the last five years (2015/16-2019/20), though statistically speaking numbers are small and prone to annual fluctuations
- Over the same five year period, 30% of deaths were due to contact with moving machinery, 30% struck by a moving vehicle and 21% struck by a moving/falling object

Source: RIDDOR

Waste compared with other selected industries#

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rate per 100,000 workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste</td>
<td>7.71</td>
</tr>
<tr>
<td>Agriculture, forestry and fishing</td>
<td>7.73</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>0.71</td>
</tr>
<tr>
<td>Construction</td>
<td>1.64</td>
</tr>
<tr>
<td>All industry</td>
<td>0.42</td>
</tr>
</tbody>
</table>

The Waste sector has a rate of fatal injury around 18 times the average rate across All industries

Source: RIDDOR, annual average 2015/16-2019/20

# Industries shown are a selection of manual type industries with a rate of fatal injury higher than the rate for All industries
**Workplace injuries**

**Non-fatal injuries** (HSE’s preferred data source for non-fatal injuries is the Labour Force Survey (LFS))

In Waste:
- There were an estimated **4,000** workers each year who sustained an injury at work

*Source: LFS, estimated annual average 2013/14 - 2019/20 (latest 7 years). Includes all injuries regardless of whether resulted in time off work.*

**Waste compared with other selected industries**

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rate per 100,000 workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste</td>
<td>3,610 (3.6%)</td>
</tr>
<tr>
<td>Agriculture, forestry and fishing</td>
<td>4,100 (4.1%)</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>2,270 (2.3%)</td>
</tr>
<tr>
<td>Construction</td>
<td>2,880 (2.9%)</td>
</tr>
<tr>
<td>All industries</td>
<td>1,840 (1.8%)</td>
</tr>
</tbody>
</table>

*Around **3.6%** of workers in Waste sustained a workplace injury annually which is **statistically significantly higher** than the rate for workers across All industries (**1.8%**)*

*This is similar to the rate for Agriculture, forestry and fishing (4.1%) and Construction (2.9%)*

*Source: LFS, estimated annual average 2013/14 – 2019/20 (latest 7 years). 95% confidence intervals are shown on the chart

# Industries shown are a selection of manual type industries with a rate of fatal or non-fatal injury higher than the rate for All industries
Work-related injuries

Non-fatal injuries

In Waste:

- There were 1,598 non-fatal injuries to employees reported by employers to RIDDOR in 2019/20.
- 408 (26%) were specified injuries and 1,190 (74%) were over 7-day injuries.

Source: RIDDOR, 2019/20

Breakdown of non-fatal injuries by accident kind for the latest five years (2015/16 – 2019/20)

- Injured while handling, lifting or carrying: 34%, 8%
- Slips, trips or falls on same level: 27%, 40%
- Struck by moving, including flying/falling, object: 11%, 13%
- Falls from a height: 5%, 15%
- Struck by moving vehicle: 4%, 9%
- Strike against something fixed or stationary: 3%, 3%
- Contact with moving machinery: 3%, 5%
- Other kind of accident: 12%, 6%


RIDDOR requires employers to report certain workplace non-fatal injuries, generally the more serious injuries. The LFS gives the best indication of the scale of workplace injury within the sector. RIDDOR provides additional information for non-fatal injuries but needs to be interpreted with care since it is known that non-fatal injuries are substantially under-reported. Possible variations in reporting rates both between industries and over time make such comparisons difficult. However, RIDDOR is often useful in providing analysis at a detailed level not available through the LFS, mainly around the type of accident itself.

Specified injuries are a defined list of injuries. The full list is at www.hse.gov.uk/riddor/reportable-incidents.htm
Of the non-fatal injuries reported by employers over the period 2015/16-2019/20:

- **44%** were from public sector employers and **56%** from private sector employers. The public sector is estimated to account for around **30%** of employment in the sector.
- The proportion of reports from public and private sector employers varies between specified and over-7-day injuries, with the public sector accounting for a higher proportion of over-7-day injuries (49%) than specified injuries (28%). Differences in sickness absence practices between public and private sector may account for some of this variation. (Specified injuries are reportable regardless of absence from work).
- The kind of accidents reported by both public and private sector employers follows a broadly similar profile


Breakdown of non-fatal injuries by employer type for the latest five years
(2015/16 – 2019/20)

<table>
<thead>
<tr>
<th></th>
<th>Total reported non-fatal injury</th>
<th>Specified injuries</th>
<th>Over-7-day injuries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Sector</td>
<td>56%</td>
<td>28%</td>
<td>49%</td>
</tr>
<tr>
<td>Public Sector</td>
<td>44%</td>
<td>72%</td>
<td>51%</td>
</tr>
</tbody>
</table>

*Source: RIDDOR, 2015/16 – 2019/20*
Work-related injuries
Non-fatal injuries: Public and private sector

Breakdown of non-fatal specified injuries by accident kind and employer type for the latest five years (2015/16 – 2019/20)

Injured while handling, lifting or carrying
- Private Sector: 7%
- Public Sector: 10%

Slips, trips or falls on same level
- Private Sector: 36%
- Public Sector: 49%

Struck by moving, flying/falling, object
- Private Sector: 15%
- Public Sector: 8%

Falls from a height
- Private Sector: 17%
- Public Sector: 10%

Struck by moving vehicle
- Private Sector: 8%
- Public Sector: 12%

Strike against something fixed or stationary
- Private Sector: 4%
- Public Sector: 3%

Contact with moving machinery
- Private Sector: 7%
- Public Sector: 2%

Other kind of accident
- Private Sector: 6%
- Public Sector: 5%

Work-related injuries
Non-fatal injuries: Public and private sector

Breakdown of non-fatal over-7-day injuries by accident kind and employer type for the latest five years (2015/16 – 2019/20)

<table>
<thead>
<tr>
<th>Accident Kind</th>
<th>Private Sector</th>
<th>Public Sector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injured while handling, lifting or carrying</td>
<td>29%</td>
<td>39%</td>
</tr>
<tr>
<td>Slips, trips or falls on same level</td>
<td>25%</td>
<td>30%</td>
</tr>
<tr>
<td>Struck by moving, flying/falling, object</td>
<td>13%</td>
<td>9%</td>
</tr>
<tr>
<td>Falls from a height</td>
<td>7%</td>
<td>3%</td>
</tr>
<tr>
<td>Struck by moving vehicle</td>
<td>4%</td>
<td>5%</td>
</tr>
<tr>
<td>Strike against something fixed or stationary</td>
<td>4%</td>
<td>3%</td>
</tr>
<tr>
<td>Contact with moving machinery</td>
<td>4%</td>
<td>2%</td>
</tr>
<tr>
<td>Other kind of accident</td>
<td>14%</td>
<td>9%</td>
</tr>
</tbody>
</table>

Work-related injuries
Non-fatal injuries: Changes over time

The rate of employer reported injuries shows a downward trend

Impact of health and safety failings

Enforcement

Enforcement notices issued by HSE to businesses in Waste, 2019/20p

- In addition to the 292 enforcement notices, 14 prosecution cases# were brought by HSE and, in Scotland, COPFS and had a verdict reached in 2019/20p; 11 resulted in a guilty verdict for at least one offence.
- The resulting fines from these prosecutions totalled around £2.6M in 2019/20p, with an average fine per case of £239,000

Source: HSE Enforcement Data

HSE and local authorities are responsible for enforcing health and safety legislation. For the most serious offences, inspectors may serve improvement notices and prohibition notices and they may prosecute (or in Scotland, report to the Crown Office and Procurator Fiscal Service (COPFS) with a view to prosecution).

# Cases refer to a prosecution against a single defendant. The defendant may be an individual person or a company. There may be one or more breach of health and safety legislation (offences) in each case.
Annex 1: Sources and definitions

The Labour Force Survey (LFS): The LFS is a national survey run by the Office for National Statistics of currently around 33,000 households each quarter. HSE commissions annual questions in the LFS to gain a view of self-reported work-related illness and workplace injury based on individuals’ perceptions. The analysis and interpretation of these data are the sole responsibility of HSE.

- Self-reported work-related illness: People who have conditions which they think have been caused or made worse by their current or past work, as estimated from the LFS. Estimated total cases include long-standing as well as new cases. New cases consist of those who first became aware of their illness in the last 12 months.

- Self-reported injuries: Workplace injuries sustained as a result of a non-road traffic accident, as estimated by the LFS.

RIDDOR: The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations, under which fatal and defined non-fatal injuries to workers and members of the public are reported by employers. Certain types of work-related injury are not reportable under RIDDOR, hence excluded from these figures. Particular exclusions include fatalities and injuries to the armed forces and injuries from work-related road collisions.

HSE Enforcement data: The main enforcing authorities are HSE and local authorities. In Scotland, HSE and local authorities investigate potential offences but cannot institute legal proceedings and the Crown Office and Procurator Fiscal Service (COPFS) makes the final decision whether to institute legal proceedings and which offences are taken. Enforcement notices cover improvement, prohibition and deferred prohibition. Offences prosecuted refer to individual breaches of health and safety legislation; a prosecution case may include more than one offence. Where prosecution statistics are allocated against a particular year, unless otherwise stated, the year relates to the date of final hearing with a known outcome. They exclude those cases not completed, for example adjourned.

Potential impact of COVID-19 on HSE’s main statistical data sources in 2019/20: Disruption to the economy towards the end of 2019/20 due to the emergence of COVID-19 as a national health issue had the potential to have impacted on workplace injury and work-related ill health data for 2019/20. A paper setting out the issues in more detail along with results of analysis of the headline data from the Labour Force Survey and RIDDOR found that COVID-19 does not appear to be the main driver of changes seen in the latest year’s data. For more details see www.hse.gov.uk/statistics/adhoc-analysis/covid19-impact19-20.pdf
Rate per 100,000: The number of annual workplace injuries or cases of work-related ill health per 100,000 employees or workers.

95% confidence interval: The range of values within which we are 95% confident contains the true value, in the absence of bias. This reflects the potential error that results from surveying a sample rather than the entire population.

Statistical significance: A difference between two sample estimates is described as ‘statistically significant’ if there is a less than 5% chance that it is due to sampling error alone.

For more information, see www.hse.gov.uk/statistics/sources.pdf
## Annex 2: Links to detailed tables

The data in this report can be found in the following tables:

<table>
<thead>
<tr>
<th>Tables</th>
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<td><strong>Other tables can be found at:</strong></td>
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<td></td>
<td><a href="http://www.hse.gov.uk/Statistics/tables/index.htm">www.hse.gov.uk/Statistics/tables/index.htm</a></td>
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</table>
National Statistics

National Statistics status means that statistics meet the highest standards of trustworthiness, quality and public value. They are produced in compliance with the Code of Practice for Statistics, and awarded National Statistics status following an assessment and compliance checks by the Office for Statistics Regulation (OSR). The last compliance check of these statistics was in 2013.

It is Health and Safety Executive’s responsibility to maintain compliance with the standards expected by National Statistics. If we become concerned about whether these statistics are still meeting the appropriate standards, we will discuss any concerns with the OSR promptly. National Statistics status can be removed at any point when the highest standards are not maintained, and reinstated when standards are restored.

Details of OSR reviews undertaken on these statistics, quality improvements, and other information noting revisions, interpretation, user consultation and use of these statistics is available from www.hse.gov.uk/statistics/about.htm.

An account of how the figures are used for statistical purposes can be found at www.hse.gov.uk/statistics/sources.htm.

For information regarding the quality guidelines used for statistics within HSE see www.hse.gov.uk/statistics/about/quality-guidelines.htm

A revisions policy and log can be seen at www.hse.gov.uk/statistics/about/revisions/
Additional data tables can be found at www.hse.gov.uk/statistics/tables/

General enquiries: Statistician: sam.wilkinson@hse.gov.uk
Journalists/media enquiries only: www.hse.gov.uk/contact/contact.htm

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