Work-related Traumatic Injury Fatalities, Australia, 2015

**October 2016**



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# Foreword

The aim of this report is to provide statistics about people who die each year from injuries that arose through work-related activity. This includes fatalities resulting from an injury sustained in the course of a work activity (worker fatalities) and as a result of someone else’s work activity (bystander fatalities). Earlier reports have included fatalities that occurred while the worker was commuting to or from work (commuter fatalities), however, these fatalities have always been difficult to distinguish from other road fatalities and this report relies heavily on workers’ compensation data. As fewer jurisdictions are now providing compensation coverage for commuting, the integrity of the commuter fatality collection has diminished and has therefore been ceased.

Injury is defined as a condition coded to ‘External causes of morbidity and mortality’ and ‘Injury, poisoning and certain other consequences of external causes’ in the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Australian Modification (ICD-10-AM).

The scope of this collection includes all persons:

* who were fatally injured, and
* whose injuries resulted from work activity or exposures, and
* whose injuries occurred in an incident that took place in Australian territories or territorial waters.

The report includes all persons killed:

* while working including unpaid volunteers and family workers, persons undertaking work experience and defence force personnel killed within Australian territories or territorial waters or travelling for work (worker fatalities), or
* as a result of someone else’s work activity (bystander fatalities).

The collection specifically excludes those who died:

* of iatrogenic injuries — those where the worker died due to medical intervention
* due to natural causes such as heart attacks and strokes, except where a work-related injury was the direct cause of the heart attack or stroke
* as a result of diseases, such as cancers, and
* by self-inflicted injuries (suicide).

People who died of injuries caused by someone else’s work activity while themselves at work are classified as a worker rather than as a bystander.

Changes from previous publications may also be evident due to the availability of additional information from finalised coroners reports and additional workers’ compensation claims.

For explanatory notes on the data for this publication, refer to http://www.safeworkaustralia.gov.au/sites/SWA/about/Publications/Documents/929/explanatory-notes-datasets.pdf

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# Summary of findings

In the 13 years from 2003 to 2015, 3207 workers have lost their lives in work-related incidents.

The fatality rate has decreased by 44 per cent from 3.0 fatalities per 100 000 workers in 2007 to 1.6 in 2015.

In 2015, 195 workers were fatally injured at work. This is 37 per cent lower than the highest number of worker deaths recorded in the series (310) in 2007.

The 195 fatalities in 2015 equates to a fatality rate of 1.6 fatalities per 100 000 workers. This is the lowest fatality rate since the series began 13 years ago. The highest fatality rate of 3.0 was recorded in 2004 and 2007.

In 2015, 187 of the 195 fatalities (96 per cent) involved male workers.

Across the 13 years of the series, two-thirds of worker fatalities involved vehicles. In 2015, 115 of the 195 fatalities (59 per cent) involved a vehicle.

In 2015, 53 workers (27 per cent) were killed in a vehicle collision, 27 workers (14 per cent) were killed when they were hit by moving objects, and 26 workers (13 per cent) died after falling from height.

In 2015, almost half (47 per cent) of the worker fatalities occurred within the Transport, postal and warehousing and Agriculture, forestry and fishing industries.

Over the period from 2003–15, 60 per cent of bystander fatalities were due to a vehicle collision, with being hit by moving objects accounting for a further 16 per cent.

# Worker fatalities

Injuries at work resulted in the deaths of 195 workers in 2015, one more than in 2014 which was the lowest number since the series began in 2003. The highest number of work-related injury fatalities was recorded in 2007 when there were 310 deaths.

Figure 1 shows the fatality rate of 1.6 fatalities per 100 000 workers in 2015 is the lowest rate since the series began.

#### Figure : Worker fatalities: number of fatalities and fatality rate, 2003 to 2015



## Sex

In 2015, 96 per cent (187 of the 195 fatalities) of workers killed were men.

Figure 2 shows the fatality rate for male workers declined over the 13 years from 4.7 fatalities per 100 000 workers in 2003 to 3.0 in 2015. Over the same period the fatality rate for female workers decreased from 0.3 to 0.1.

#### Figure 2: Worker fatalities: fatality rate by sex, 2003 to 2015



## Age group

Table 1 shows the distribution of fatalities by age group. This distribution shows there were fewer fatalities in the youngest and oldest age groups, which reflects the lower workforce participation of these age groups compared with other age groups.

While the number of fatalities in 2015 is the second lowest in the series, the age profile was similar to previous years. The exception was the 65 years and over age group, which accounted for a slightly higher proportion of fatalities than other years.

These data show the 45–54 years age group recorded the highest number of fatalities in the past 13 years.

#### Table 1: Worker fatalities: number by age group, 2003 to 2015

| Year | Less than 25 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and over | Total\* |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2003 | 26 | 55 | 61 | 53 | 40 | 24 | 259 |
| 2004 | 28 | 56 | 53 | 62 | 53 | 32 | 284 |
| 2005 | 24 | 55 | 57 | 57 | 41 | 24 | 258 |
| 2006 | 26 | 53 | 72 | 51 | 60 | 22 | 284 |
| 2007 | 36 | 48 | 68 | 68 | 56 | 34 | 310 |
| 2008 | 34 | 46 | 55 | 63 | 50 | 35 | 283 |
| 2009 | 21 | 44 | 44 | 63 | 59 | 27 | 258 |
| 2010 | 18 | 35 | 39 | 50 | 57 | 29 | 228 |
| 2011 | 23 | 21 | 43 | 58 | 41 | 38 | 224 |
| 2012 | 28 | 31 | 45 | 53 | 44 | 27 | 229 |
| 2013 | 18 | 30 | 37 | 44 | 37 | 35 | 201 |
| 2014 | 22 | 32 | 27 | 42 | 38 | 32 | 194 |
| 2015 | 16 | 33 | 26 | 46 | 38 | 36 | 195 |
| Total | 320 | 539 | 627 | 710 | 614 | 395 | 3 207 |

\* Total includes persons where age at death is unknown

Figure 3 shows fatality rates have fallen over the past 13 years for all age groups. However, while the gap between the oldest age group and the younger age groups has narrowed, the fatality rate of the oldest age group remains four to 10 times higher than the younger age groups.

In 2015, fatality rates generally increased with age from 0.8 fatalities per 100 000 workers in those aged under 25 years to 8.3 in workers aged 65 years and over.

#### Figure 3: Worker fatalities: fatality rate by age group, 2003 to 2015



## Mechanism of fatality

Table 2 shows 53 worker fatalities in 2015 (27 per cent) were due to a vehicle collision. This mechanism is used when an occupant of a vehicle is killed following a collision with another vehicle or a stationary object. This is a major reduction from previous years with the highest being recorded in 2007 with 129 fatalities.

Being hit by moving objects, falls from a height and being hit by falling objects accounted for 14 per cent, 13 per cent and 11 per cent of fatalities respectively in 2015.

The top four mechanisms accounted for almost two-thirds of work-related fatalities in 2015 (65 per cent). For the complete time series see Appendix A1.

#### Table 2: Worker fatalities: number by mechanism of incident, 2003 to 2015 (selected years, sorted by 2015 fatalities)

| Mechanism of incident | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | % of 2015 fatalities | % of total fatalities |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vehicle collision | 108 | 103 | 129 | 112 | 78 | 69 | 53 | 27% | 39% |
| Being hit by moving objects | 40 | 29 | 38 | 31 | 19 | 24 | 27 | 14% | 12% |
| Falls from a height  | 27 | 26 | 32 | 29 | 22 | 24 | 26 | 13% | 11% |
| Being hit by falling objects | 15 | 25 | 24 | 15 | 27 | 25 | 21 | 11% | 9% |
| Rollover of non-road vehicle | 9 | 11 | 12 | 12 | 11 | 15 | 13 | 7% | 4% |
| Being trapped between stationary and moving objects | 9 | 12 | 11 | 7 | 13 | 7 | 12 | 6% | 4% |
| Being trapped by moving machinery | 6 | 11 | 11 | 11 | 13 | 10 | 9 | 5% | 4% |
| Contact with electricity | 13 | 13 | 13 | 13 | 10 | 8 | 8 | 4% | 4% |
| Drowning | 4 | 2 | 5 | 8 | 3 | 4 | 5 | 3% | 2% |
| Explosion | 3 | 2 | 1 | 1 | 5 | 1 | 5 | 3% | 1% |
| Being assaulted by a person or persons | 12 | 7 | 8 | 4 | 3 | 6 | 4 | 2% | 2% |
| Being hit by an animal | 1 | 2 | 2 | 2 | 6 | 2 | 1 | 1% | 1% |
| Other mechanisms | 12 | 15 | 24 | 13 | 14 | 6 | 11 | 6% | 5% |
| Total\* | 259 | 258 | 310 | 258 | 224 | 201 | 195 | 100% | 100% |

\* The percentages shown in this table have been rounded to the nearest whole number, therefore the sum of percentage figures for each column may not equal the total.

Table 3 shows the profile of fatalities by mechanism is roughly similar across the age groups. The exception to this is the 65 years and over age group which had a lower proportion of fatalities due to vehicle collision (24 per cent compared with 37 per cent to 46 per cent for the other age groups) and slightly higher proportions due to being hit by moving objects and falls from a height.

This oldest age group also had considerably more in the other mechanisms category of which rollover of non-road vehicle was a major contributor.

#### Table 3: Worker fatalities: percentage by mechanism of incident and age group, 2003 to 2015 combined

| Mechanism of incident | Less than 25 | 25-34 | 35-44 | 45-54 | 55-64 | 65 and over | Total |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Vehicle collision | 40% | 42% | 46% | 41% | 37% | 24% | 39% |
| Being hit by moving objects | 12% | 8% | 10% | 13% | 14% | 16% | 12% |
| Falls from a height  | 8% | 9% | 8% | 12% | 14% | 16% | 11% |
| Being hit by falling objects | 7% | 9% | 12% | 7% | 10% | 9% | 9% |
| Contact with electricity | 9% | 7% | 4% | 5% | 2% | 2% | 4% |
| Other mechanisms | 23% | 24% | 21% | 22% | 23% | 33% | 24% |
| Total\* | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

\* The percentages shown in this table have been rounded to the nearest whole number, therefore the sum of percentage figures for each column may not equal the total.

## Breakdown agency

The breakdown agency identifies the object, substance or circumstance principally involved at the point at which things started to go wrong.

Table 4 shows the breakdown agency of mobile plant and transport accounted for 61 per cent of fatalities over the 2003–15 period and 53 per cent of fatalities in 2015. Within this group, trucks, semi-trailers or lorries was the biggest contributor accounting for 18 per cent of all worker fatalities. This was followed by cars, station wagons, vans or utilities with 9 per cent and tractors with 4 per cent.

For the complete time series see Appendix A2.

#### Table : Worker fatalities: number and proportion by selected breakdown agencies\*, 2003 to 2015 (selected years, sorted by total fatalities)

| Breakdown agency | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | Total | % of 2015 fatalities  | % of total fatalities |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mobile plant and transport | 161 | 151 | 192 | 167 | 132 | 123 | 103 | 1952 | 53% | 61% |
| Road transport | 99 | 100 | 139 | 110 | 72 | 73 | 54 | 1232 | 28% | 38% |
| Trucks, semi-trailers, lorries | 58 | 50 | 76 | 65 | 47 | 42 | 36 | 730 | 18% | 23% |
| Cars, station wagons, vans, utilities | 38 | 42 | 54 | 41 | 22 | 23 | 18 | 442 | 9% | 14% |
| Other mobile plant | 20 | 16 | 14 | 15 | 13 | 16 | 15 | 204 | 8% | 6% |
| Tractors, agricultural or otherwise | 13 | 13 | 7 | 13 | 9 | 12 | 7 | 149 | 4% | 5% |
| Air transport | 24 | 15 | 11 | 11 | 21 | 10 | 4 | 184 | 2% | 6% |
| Self-propelled plant | 8 | 10 | 11 | 11 | 9 | 6 | 14 | 136 | 7% | 4% |
| Other transport | 3 | 3 | 4 | 7 | 10 | 12 | 7 | 72 | 4% | 2% |
| Water transport | 4 | 6 | 4 | 9 | 4 | 4 | 5 | 69 | 3% | 2% |
| Machinery and (mainly) fixed plant | 23 | 32 | 29 | 31 | 32 | 24 | 17 | 342 | 9% | 11% |
| Conveyors and lifting plant | 13 | 20 | 18 | 16 | 22 | 17 | 9 | 198 | 5% | 6% |
| Electrical installation | 6 | 6 | 4 | 11 | 4 | 6 | 4 | 67 | 2% | 2% |
| **Environmental agencies** | 29 | 27 | 28 | 25 | 21 | 17 | 33 | 336 | 17% | 10% |
| Non-powered handtools, appliances and equipment | 13 | 11 | 24 | 13 | 8 | 14 | 18 | 204 | 9% | 6% |
| Ladders, mobile ramps and stairways, and scaffolding | 4 | 5 | 13 | 7 | 7 | 4 | 6 | 82 | 3% | 3% |
| Animal, human and biological agencies | 15 | 14 | 14 | 9 | 13 | 11 | 11 | 158 | 6% | 5% |
| Live four-legged animals | 4 | 6 | 6 | 4 | 7 | 6 | 4 | 71 | 2% | 2% |
| Human agencies | 10 | 6 | 6 | 4 | 4 | 4 | 7 | 65 | 4% | 2% |
| Powered equipment, tools and appliances | 8 | 6 | 10 | 8 | 7 | 4 | 6 | 94 | 3% | 3% |
| Materials and substances | 7 | 13 | 8 | 5 | 8 | 6 | 6 | 89 | 3% | 3% |
| Chemicals and chemical products | 2 | 4 | 3 |  .. | 3 | 2 | 1 | 29 | 1% | 1% |
| Total\* | 259 | 258 | 310 | 258 | 224 | 201 | 195 | 3207 | 100% | 100% |

Note: Only selected breakdown agency subgroups and classes are included. Therefore the number of fatalities in the selected subcategories will not add to the category total.

\* The total number of fatalities and percentage figures for each column shown in this table will not add to the total due to rounding and the inclusion of selected breakdown agency subgroups and classes within the major group headings.

## Involvement of vehicles

Over the 2003 to 2015 period, 2081 (65 per cent) worker fatalities involved vehicles. Of these, almost half (49 per cent) occurred on a public road.

One-third (1022) of all worker fatalities arose from injuries that involved a vehicle on a public road, one-third (1059) involved a vehicle not on a public road and the remaining one-third (1126) did not involve a vehicle.

Table 5 shows 89 per cent of worker fatalities involving vehicles on public roads were the result of a vehicle collision. This was followed by being hit by moving objects which accounted for 8 per cent.

#### Table : Worker fatalities by vehicle involvement: number by public road status and mechanism of incident, 2003 to 2015 combined (sorted by total fatalities)

|   | Vehicle involved | No vehicle involved | Total |
| --- | --- | --- | --- |
| Mechanism of incident | On a public road | Not on a public road | Total |  |  |
| Number of fatalities |   |   |   |   |   |
| Vehicle collision | 913 | 345 | 1258 | .. | 1258 |
| Being hit by moving objects | 82 | 194 | 276 | 111 | 387 |
| Rollover of non-road vehicle | 10 | 127 | 137 | .. | 137 |
| Being trapped between stationary and moving objects | 7 | 80 | 87 | 42 | 129 |
| Being hit by falling objects | 3 | 98 | 101 | 193 | 294 |
| Falls from a height  | 2 | 69 | 71 | 288 | 359 |
| Other mechanisms | 5 | 146 | 151 | 492 | 643 |
| Total | 1022 | 1059 | 2081 | 1126 | 3207 |
| Percentage of fatalities |   |   |   |   |   |
| Vehicle collision | 89% | 33% | 60% | .. | 39% |
| Being hit by moving objects | 8% | 18% | 13% | 10% | 12% |
| Rollover of non-road vehicle | 1% | 12% | 7% | .. | 4% |
| Being trapped between stationary and moving objects | 1% | 8% | 4% | 4% | 4% |
| Being hit by falling objects | 0% | 9% | 5% | 17% | 9% |
| Falls from a height  | 0% | 7% | 3% | 26% | 11% |
| Other mechanisms | 0% | 14% | 7% | 44% | 20% |
| Total\* | 100% | 100% | 100% | 100% | 100% |

\* The percentages shown in this table have been rounded to the nearest whole number, therefore the sum of percentage figures for each column may not equal the total.

## Fatalities due to vehicle collisions

Table 6 shows in the 13 years from 2003 to 2015, 1258 workers died in a vehicle collision. This is an average of 97 workers each year, compared with the 53 recorded in 2015*.* Of these, almost two-thirds (64 per cent) involved a single vehicle.

Of all worker fatalities, one-quarter (25 per cent) involved a worker dying in a single vehicle collision, with 12 per cent in a heavy vehicle.

#### Table : Worker fatalities due to vehicle collision: number by breakdown agency, 2003 to 2015 (selected years, sorted by total fatalities)

| Type of incident | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | Total | % of total | % of all worker fatalities |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Single vehicle collision | 66 | 71 | 85 | 70 | 55 | 42 | 34 | 816 | 64% | 25% |
| Heavy vehicle | 27 | 33 | 46 | 33 | 25 | 20 | 16 | 374 | 30% | 12% |
| Aircraft | 22 | 14 | 10 | 9 | 19 | 10 | 5 | 174 | 9% | 5% |
| Light vehicle | 9 | 13 | 24 | 16 | 8 | 5 | 6 | 164 | 11% | 5% |
| Quad bike | .. | .. | .. | 3 | 1 | 4 | 5 | 26 | 9% | 1% |
| Motorbike | 1 | 4 | 4 | 2 | 1 | 1 | .. | 25 | 0%\* | 1% |
| Agriculture vehicle | 4 | 2 | .. | 2 | .. | 1 | .. | 19 | 0%\* | 1% |
| Watercraft | 1 | 3 | .. | 3 | 1 | .. | .. | 17 | 0%\* | 1% |
| Other single vehicle collision | 2 | 2 | 1 | 2 | .. | 1 | 2 | 17 | 4% | 1% |
| Multi vehicle collision | 42 | 32 | 44 | 42 | 23 | 27 | 19 | 442 | 36% | 14% |
| Occupant in light vehicle killed in collision with a heavy vehicle | 10 | 4 | 10 | 10 | 11 | 8 | 5 | 104 | 9% | 3% |
| Two heavy vehicles | 16 | 9 | 12 | 13 | 6 | 7 | 5 | 136 | 9% | 4% |
| Two light vehicles | 9 | 12 | 6 | 7 | 2 | 5 | 4 | 87 | 8% | 3% |
| Occupant in a heavy vehicle killed in collision with light vehicle | 1 | 2 | 4 | 7 | 3 | 4 | 2 | 43 | 4% | 1% |
| Other multi-vehicle collision | 6 | 5 | 12 | 5 | 1 | 3 | 3 | 72 | 6% | 2% |
| Total worker fatalities due to vehicle collision\* | 108 | 103 | 129 | 112 | 78 | 69 | 53 | 1258 | 100% | 39% |

\* The percentages shown in this table have been rounded to the nearest whole number, therefore the sum of percentage figures for each column may not equal the total.

## Fatalities due to being hit by moving objects

Over the 13 years from 2003 to 2015, 387 workers died as a result of being hit by moving objects, which amounted to 12 per cent of all worker fatalities over this period. In 2015, 27 workers died due to this mechanism. Table 7 shows more than two-thirds (270 fatalities) of these incidents involved mobile plant and transport. Over the 13 years, 142 workers died after being hit by a heavy vehicle (truck, semi-trailer, lorries) or a light vehicle (cars, station wagons, vans, utilities).

#### Table : Worker fatalities due to being hit by moving objects: number by breakdown agency, 2003 to 2015 (selected years, sorted by total fatalities)

| Breakdown agency | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | Total | % of total | % of all worker fatalities |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mobile plant and transport | 26 | 21 | 27 | 23 | 16 | 16 | 17 | 270 | 70% | 8% |
| Trucks, semi-trailers, lorries | 6 | 4 | 5 | 9 | 6 | 5 | 3 | 80 | 21% | 2% |
| Cars, station wagons, vans, utilities | 7 | 7 | 12 | 4 | 4 | 5 | 2 | 62 | 16% | 2% |
| Self-propelled plant | 6 | 4 | .. | 3 | 2 | 3 | 6 | 46 | 12% | 1% |
| Tractors, agricultural or otherwise | 4 | 1 | 2 | 3 | 2 | 1 | 3 | 37 | 10% | 1% |
| Other mobile or transport | 3 | 5 | 8 | 4 | 2 | 2 | 3 | 45 | 12% | 1% |
| Machinery and (mainly) fixed plant | 4 | .. | 2 | 2 | .. | 5 | 3 | 31 | 8% | 1% |
| Non-powered handtools, appliances and equipment | 2 | 3 | 2 | 1 | 1 | 2 | 1 | 30 | 8% | 1% |
| Powered equipment, tools and appliances | 5 | 1 | 3 | 3 | .. | .. | 3 | 25 | 6% | 1% |
| Environmental agencies | 1 | .. | 1 | 2 | 1 | .. | 2 | 10 | 3% | 0%\* |
| Materials and substances | 2 | 2 | 1 | .. | 1 | .. | .. | 10 | 3% | 0%\* |
| Chemicals and chemical products | .. | 2 | .. | .. | .. | 1 | .. | 7 | 2% | 0%\* |
| Animal, human and biological agencies | .. | .. | .. | .. | .. | .. | 1 | 2 | 1% | 0%\* |
| Total\* | 40 | 29 | 38 | 31 | 19 | 24 | 27 | 387 | 100% | 12% |

\*The total number of fatalities and percentage figures for each column shown in this table will not add to the total due to rounding and the inclusion of selected breakdown agency subgroups and classes within the major group headings.

## Fatalities due to falls from a height

Over the 13 years from 2003 to 2015, 359 workers died following falls from a height, which amounted to 11 per cent of all worker fatalities. In 2015, 26 workers died due to this mechanism.

Table 8 shows over the past 13 years falls from a height most commonly involved falls from a roof (59 fatalities), ladders (54 fatalities), horses, donkeys and mules (33 fatalities) and trucks, semi-trailers and lorries (26 fatalities).

#### Table : Worker fatalities due to falls from a height: number by breakdown agency, 2003 to 2015 (selected years, sorted by total fatalities)

| Breakdown agency | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | Total | % of total | % of all worker fatalities |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Environmental agencies | 14 | 12 | 10 | 13 | 6 | 6 | 11 | 138 | 38% | 4% |
| Roof | 9 | 6 | 4 | 3 | 3 | 2 | 6 | 59 | 16% | 2% |
| Buildings under construction or demolition | 3 | 1 | .. | 1 | .. | .. | 1 | 19 | 5% | 1% |
| Internal building structures | .. | .. | 1 | 1 | .. | .. | .. | 6 | 2% | 0%\* |
| Openings in floors, walls or ceilings | .. | .. | .. | .. | 2 | .. | 1 | 6 | 2% | 0%\* |
| Non-powered handtools, appliances and equipment | 5 | 5 | 12 | 6 | 7 | 4 | 6 | 87 | 24% | 3% |
| Ladders | 3 | 3 | 9 | 4 | 6 | 3 | 3 | 54 | 15% | 2% |
| Scaffolding | 1 | 2 | 2 | 2 | 1 | .. | 2 | 16 | 4% | 0%\* |
| Mobile plant and transport | 2 | 4 | 1 | 3 | 5 | 7 | 4 | 59 | 16% | 2% |
| Trucks, semi-trailers, lorries | 2 | 2 | .. | 3 | 2 | 3 | 2 | 26 | 7% | 1% |
| Motorised craft | .. | .. | .. | .. | .. | 1 | .. | 11 | 3% | 0%\* |
| Machinery and (mainly) fixed plant | 3 | 2 | 5 | 5 | 2 | 3 | 2 | 40 | 11% | 1% |
| Elevating work platforms | 1 | .. | 5 | 2 | 2 | 1 | 2 | 18 | 5% | 1% |
| Animal, human and biological agencies | 3 | 3 | 4 | 2 | 2 | 4 | 3 | 35 | 10% | 1% |
| Horses, donkeys, mules | 3 | 3 | 4 | 2 | 2 | 3 | 3 | 33 | 9% | 1% |
| Total\* | 27 | 26 | 32 | 29 | 22 | 24 | 26 | 359 | 100% | 11% |

\* The sum of the number of fatalities and percentage figures for each column may not equal the total due to rounding and the inclusion of selected subcategories in some breakdown agencies. The total also includes fatalities where the breakdown agency was unknown.

## Fatalities due to being hit by falling objects

Over the 13 years from 2003 to 2015, 294 workers died due to being hit by falling objects, which amounted to 9 per cent of all worker fatalities. This mechanism claimed the lives of 21 workers in 2015.

Table 9 provides more detail on the object (agency) which hit the worker. Over the 13 years, 69 workers were killed by falling vegetation. This is 23 per cent of all workers who died as a result of being hit by falling objects and 2 per cent of all worker fatalities.

#### Table 9: Worker fatalities due to being hit by falling objects: number by agency, 2003 to 2015 (selected years, sorted by total fatalities)

| Agency | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | Total | % of total | % of all worker fatalities |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Environmental agencies | 7 | 11 | 8 | 2 | 16 | 8 | 3 | 100 | 34% | 3% |
| Vegetation | 5 | 10 | 5 | 2 | 12 | 6 | 2 | 69 | 23% | 2% |
| Buildings and other structures | 2 | .. | 3 | .. | 3 | 2 | .. | 25 | 9% | 1% |
| Materials and substances | 3 | 5 | 4 | 7 | 4 | 7 | 5 | 81 | 28% | 3% |
| Ferrous and non-ferrous metal |  | 2 | 3 | 2 | 2 | 4 | .. | 31 | 11% | 1% |
| Mobile plant and transport | 3 | 2 | 5 | 3 | 1 | 7 | 10 | 56 | 19% | 2% |
| Trucks, semi-trailers, lorries | .. | .. | 1 | 1 | .. | 3 | 3 | 17 | 6% | 1% |
| Cars, station wagons, vans, utilities | .. | 1 | .. | .. | .. | 1 | 1 | 7 | 2% | 0%\* |
| Non-powered handtools, appliances and equipment | 1 | 3 | 5 | 2 | 2 | 3 | 2 | 33 | 11% | 1% |
| Storage equipment | .. | 2 | .. | 1 | 1 | 1 | 1 | 12 | 4% | 0%\* |
| Machinery and (mainly) fixed plant | 1 | 3 | 1 | 1 | 4 | .. | 1 | 20 | 7% | 1% |
| Cranes | 1 | 1 | .. | .. | 2 | .. | .. | 6 | 2% | 0%\* |
| Powered equipment, tools and appliances | .. | 1 | 1 | .. | .. | .. | .. | 3 | 1% | 0%\* |
| Total\* | 15 | 25 | 24 | 15 | 27 | 25 | 21 | 294 | 100% | 9% |

Note: Only selected agency subgroups are included. Therefore the number of fatalities in the selected subcategories will not add to the category total.

\*The total number of fatalities and percentage figures for each column shown in this table will not add to the total due to rounding and the inclusion of selected breakdown agency subgroups and classes within the major group headings.

## Industry

Figure 4 shows in 2015, 47 per cent of the workers who died were employed either in the Agriculture, forestry and fishing (52 fatalities) or the Transport, postal and warehousing industries (40 fatalities).

#### Figure 4: Worker fatalities: proportion by industry of employer, all years (2003 to 2015 combined) and 2015



Table 10 shows the top four industries have had decreases in worker fatalities over the period from 2003 to 2015. Agriculture, forestry and fishing industry recorded the highest proportion of fatalities in 2015 representing more than one quarter of all worker fatalities. For the complete time series see Appendix A3.

#### Table 10: Worker fatalities: number by industry of employer, 2003 to 2015 (selected years)

| Industry of employer | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | Total | % of 2015 | % of all worker fatalities |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Agriculture, forestry and fishing | 60 | 62 | 52 | 62 | 59 | 52 | 52 | 744 | 27% | 23% |
| Transport, postal and warehousing | 68 | 55 | 83 | 64 | 48 | 46 | 40 | 754 | 21% | 24% |
| Construction | 43 | 30 | 45 | 36 | 41 | 22 | 33 | 469 | 17% | 15% |
| Manufacturing | 20 | 23 | 25 | 23 | 22 | 12 | 13 | 275 | 7% | 9% |
| Mining | 11 | 9 | 7 | 10 | 6 | 8 | 10 | 122 | 5% | 4% |
| Administrative and support services | 4 | 12 | 12 | 12 | 8 | 5 | 7 | 109 | 4% | 3% |
| Arts and recreation services | 3 | 6 | 10 | 1 | 6 | 7 | 7 | 73 | 4% | 2% |
| Other services | 4 | 10 | 4 | 4 | 4 | 7 | 7 | 70 | 4% | 2% |
| Public administration and safety | 9 | 14 | 13 | 11 | 11 | 11 | 6 | 123 | 3% | 4% |
| Electricity, gas, water and waste services | 5 | 6 | 4 | 5 | 2 | 4 | 4 | 59 | 2% | 2% |
| Wholesale trade | 7 | 11 | 8 | 4 | 3 | 8 | 3 | 98 | 2% | 3% |
| Retail trade | 7 | 7 | 17 | 5 | 2 | 8 | 3 | 82 | 2% | 3% |
| Accommodation and food services | 5 | .. | 6 | 3 | 1 | 2 | 3 | 43 | 2% | 1% |
| Professional, scientific and technical services | 2 | 2 | 7 | 4 | 2 | 2 | 2 | 50 | 1% | 2% |
| Education and training | 2 | 2 | 4 | 2 | 2 | .. | 2 | 32 | 1% | 1% |
| Health care and social assistance | 3 | 3 | .. | 6 | 2 | 4 | 2 | 35 | 1% | 1% |
| Rental, hiring and real estate services | 4 | 6 | 10 | 2 | 2 | 3 | 1 | 46 | 1% | 1% |
| Information media and telecommunications | 1 | .. | 3 | 1 | 3 | .. | .. | 15 | 0%\* | 0%\* |
| Financial and insurance services | 1 | .. | .. | 3 | .. | .. | .. | 8 | 0%\* | 0%\* |
| All industries\* | 259 | 258 | 310 | 258 | 224 | 201 | 195 | 3207 | 100% | 100% |

\*The percentages shown in this table have been rounded to the nearest whole number, therefore the sum of percentage figures for each column may not equal the total.

Fatality rates, expressed as fatalities per 100 000 workers, are best used when comparing risk across industries. Table 11 shows in 2015 the Agriculture, forestry and fishing industry recorded the highest fatality rate with 16.7 fatalities per 100 000 workers. The fatality rate for this industry in 2015 is over 10 times the all industries fatality rate of 1.6.

It must be noted that fatality rates are sensitive to the number of workers employed in each industry, and therefore are liable to show volatility in those industries which employ the fewest workers even when small variations in the number of fatalities are recorded. Therefore, the actual number of fatalities should be considered when interpreting the fatality rates.

For the complete time series see Appendix A4.

#### Table 11: Worker fatalities: fatality rate (fatalities per 100 000 workers) by industry of employer, 2003 to 2015 (selected years)

| Industry of employer | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | Total |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Agriculture, forestry and fishing | 16.4 | 17.6 | 15.0 | 17.8 | 18.7 | 17.3 | 16.7 | 17.0 |
| Transport, postal and warehousing | 14.6 | 11.1 | 15.5 | 11.0 | 8.3 | 7.8 | 6.6 | 10.6 |
| Construction | 5.8 | 3.6 | 4.8 | 3.7 | 4.0 | 2.2 | 3.2 | 3.8 |
| Manufacturing | 1.9 | 2.3 | 2.4 | 2.3 | 2.3 | 1.3 | 1.5 | 2.2 |
| Administrative and support services | 1.2 | 3.4 | 3.4 | 3.4 | 2.0 | 1.3 | 1.7 | 2.3 |
| Arts and recreation services | 2.1 | 3.5 | 5.2 | 0.5 | 2.9 | 3.4 | 3.1 | 2.9 |
| Public administration and safety | 1.6 | 2.3 | 2.0 | 1.6 | 1.5 | 1.5 | 0.8 | 1.4 |
| Mining | 12.4 | 7.6 | 5.1 | 6.1 | 2.7 | 3.0 | 4.4 | 5.3 |
| Wholesale trade | 1.9 | 3.0 | 2.1 | 1.0 | 0.7 | 1.9 | 0.8 | 1.9 |
| Retail trade | 0.6 | 0.6 | 1.4 | 0.4 | 0.2 | 0.7 | 0.2 | 0.5 |
| Health care and social assistance | 0.3 | 0.3 | .. | 0.5 | 0.2 | 0.3 | 0.1 | 0.2 |
| Other services | 0.9 | 2.5 | 0.9 | 0.9 | 0.9 | 1.5 | 1.5 | 1.2 |
| Professional, scientific and technical services | 0.3 | 0.3 | 0.9 | 0.5 | 0.2 | 0.2 | 0.2 | 0.5 |
| Accommodation and food services | 0.8 | .. | 0.9 | 0.4 | 0.1 | 0.3 | 0.4 | 0.5 |
| Information media and telecommunications | 0.4 | .. | 1.2 | 0.5 | 1.5 | .. | .. | 0.5 |
| Electricity, gas, water and waste services | 5.5 | 6.0 | 3.8 | 3.8 | 1.4 | 2.7 | 2.8 | 3.6 |
| Rental, hiring and real estate services | 2.4 | 3.4 | 5.0 | 1.1 | 1.0 | 1.5 | 0.5 | 1.8 |
| Education and training | 0.3 | 0.3 | 0.5 | 0.2 | 0.2 | .. | 0.2 | 0.3 |
| Financial and insurance services | 0.3 | .. | .. | 0.8 | .. | .. | .. | 0.2 |
| All industries | 2.7 | 2.6 | 3.0 | 2.4 | 2.0 | 1.7 | 1.6 | 2.3 |

##

## Priority industries

The Australian Work Health and Safety Strategy 2012-2022 (Australian Strategy) provides a framework to drive improvements in work health and safety in Australia. It promotes a collaborative approach between the Commonwealth, state and territory governments, industry and unions and other organisations to achieve the vision of healthy, safe and productive working lives.

The Australian Strategy identifies national priority industries and disorders to help direct prevention activities to where they are needed the most.

The following industries have high numbers and rates of deaths and/or injuries or are by their nature hazardous:

* Agriculture
* Road transport
* Manufacturing
* Construction
* Accommodation and food services
* Public administration and safety, and
* Health care and social assistance.

For the purposes of this report, only those industries with fatality rates above the all industry rate will be examined in further detail, i.e. Agriculture, Road transport and Construction.

Industries such as Accommodation and food services, Health care and social assistance and Public administration and safety have low fatality rates but are included as priority industries due to high injury rates. For information on serious claims in these industries, refer to the latest *Australian Workers’ Compensation Statistics*:

<http://www.safeworkaustralia.gov.au/sites/swa/statistics/workers-compensation-data/pages/compendiumofworkerscompensationstatistics>

Figure 5 shows that while fatality rates can be volatile over time, they have generally been decreasing for the selected priority industries over the last 13 years, apart from Agriculture where the rate has remained close to 15.0 for much of the period. Although the Road transport fatality rate has decreased over the period it is still over eight times the all industry rate (13.3 compared with 1.6).

#### Figure 5: Worker fatalities: fatality rate (fatalities per 100 000 workers) by industry of employer, 2003 to 2015



#### Table 12: Worker fatalities: Agriculture sub-divisions by mechanism of incident, 2003 to 2015 (combined)

| Industry sub-divisions | Vehicle collision | Rollover of non-road vehicle | Being hit by moving objects | Being hit by falling objects | Falls from a height | Being trapped between stationary and moving objects | Being hit by an animal | Other | Total |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sheep, beef cattle and grain farming | 109 | 50 | 56 | 34 | 29 | 19 | 16 | 62 | 375 |
| Other crop growing | 13 | 10 | 7 | 7 | .. | 4 | 3 | 8 | 52 |
| Fruit and tree nut growing | 5 | 10 | 5 | 1 | 3 | 6 | 4 | 3 | 37 |
| Other livestock farming | 13 | 8 | 7 | 1 | 3 | .. | 1 | 4 | 37 |
| Dairy cattle farming | 13 | 5 | 2 | .. | .. | 1 | 1 | 3 | 25 |
| Mushroom and vegetable growing | 6 | 2 | 6 | 1 | 1 | .. | .. | 3 | 19 |
| Nursery and floriculture production | 1 | 1 | 1 | 2 | .. | 1 | .. | 1 | 7 |
| Poultry farming | .. | 1 | 1 | .. | .. | .. | .. | 1 | 3 |
| Agriculture total | 160 | 87 | 85 | 46 | 36 | 31 | 25 | 85 | 555 |

Table 12 shows the number of worker fatalities in Agriculture sub-divisions by mechanism of incident. Almost half (45 per cent of fatalities) of all worker fatalities in Agriculture are due to vehicle collisions and rollover of non-road vehicles, 160 and 87 fatalities, respectively.

Within the Agriculture industry, the Sheep, beef cattle and grain farming industry makes up more than two-thirds (68 per cent) of the number of fatalities (375 out of 555). Of these nearly half (42 per cent) involved vehicle collisions or rollover of non-road vehicles. In this group, the most common vehicles involved in these fatalities were tractors and quad bikes (38 fatalities each) and light vehicles and aircraft (29 fatalities each).

Further information on fatalities and injuries that occur on Australian farms can be found in the *Work-related injuries and fatalities on Australian farms* report:

<http://www.safeworkaustralia.gov.au/sites/SWA/about/Publications/Documents/759/Work-related-injuries-fatalities-farms.pdf>

Over the period from 2003 to 2015, 77 per cent (449 fatalities) of all road transport fatalities involved vehicle collisions, with the vast majority (93 per cent) occurring in the road freight transport industry.

#### Table 13: Worker fatalities: Road transport sub-divisions by mechanism of incident, 2003 to 2015 (combined)

| Industry sub-divisions | Vehicle collision | Being hit by moving objects | Being hit by falling objects | Being trapped between stationary and moving objects | Falls from a height | Being trapped by moving machinery | Other | Total |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Road freight transport | 418 | 35 | 23 | 17 | 13 | 5 | 24 | 535 |
| Road passenger transport | 31 | 7 | 1 | .. | 1 | 5 | 3 | 48 |
| Taxi and other road transport | 24 | 4 | .. | .. | .. | .. | 3 | 31 |
| Urban bus transport (including tramway) | 5 | 2 | .. | .. | 1 | 3 | 0 | 11 |
| Interurban and rural bus transport | 2 | 1 | 1 | .. | .. | 2 | 0 | 6 |
| Road transport total | 449 | 42 | 24 | 17 | 14 | 10 | 27 | 583 |

Table 14 shows the mechanism with the highest number of worker fatalities in the Construction industry is falls from a height. These fatalities account for almost one-third (133 out of 469 fatalities) in the industry.

Within the Construction industry, Construction services recorded the highest number of fatalities with 309, of which 89 were due to falls from a height. Workers in this industry are involved in earthmoving and excavation, concreting, bricklaying, roofing, plumbing and electrical and carpentry services.

Building installation services recorded the highest number of fatalities from contact with electricity (38 fatalities). Workers in this industry are primarily involved with plumbing, electrical, heating and air conditioning installation.

For further information on fatalities and injuries refer to the *Work-related injuries and fatalities in Construction, 2003 to 2013* report:

<http://www.safeworkaustralia.gov.au/sites/SWA/about/Publications/Documents/926/fatalities-in-construction.pdf>

#### Table 14: Worker fatalities: Construction sub-divisions by mechanism of incident, 2003 to 2015 (combined)

| Industry sub-division | Falls from a height | Vehicle collision | Contact with electricity | Being hit by moving objects | Being hit by falling objects | Being trapped between stationary and moving objects | Being trapped by moving machinery | Other | Total |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Building construction | 34 | 9 | 5 | 2 | 15 | 3 | 1 | 5 | 74 |
| Non-residential building construction | 10 | 5 | 1 | 1 | 7 | 2 | 1 | 1 | 28 |
| Residential building construction | 24 | 4 | 4 | 1 | 8 | 1 | .. | 4 | 46 |
| Construction services | 89 | 44 | 57 | 28 | 31 | 16 | 15 | 29 | 309 |
| Building completion services | 26 | 2 | 3 | 3 | 4 | 3 | 1 | 1 | 43 |
| Building installation services | 15 | 12 | 38 | 1 | .. | 1 | .. | 5 | 72 |
| Building structure services | 35 | 6 | 12 | 4 | 7 | 4 | 2 | 6 | 76 |
| Land development and site preparation services | 5 | 12 | 1 | 15 | 15 | 8 | 11 | 10 | 77 |
| Other construction services | 8 | 12 | 3 | 5 | 5 | .. | 1 | 7 | 41 |
| Heavy and civil engineering construction | 10 | 20 | 5 | 25 | 8 | 4 | 3 | 11 | 86 |
| Construction total | 133 | 73 | 67 | 55 | 54 | 23 | 19 | 45 | 469 |

## Occupation

In 2015, 34 per cent (66 fatalities) of the workers killed were employed as machinery operators and drivers. Labourers accounted for a further 23 per cent (44 fatalities) of fatalities followed by managers (16 per cent – 32 fatalities) and technicians and trades workers (14 per cent – 28 fatalities). For the complete time series see Appendix A5.

#### Table 15: Worker fatalities: number of fatalities and fatality rate by occupation, 2003 to 2015 (selected years, sorted by 2015 fatalities)

| Occupation | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Number of fatalities |   |   |   |   |   |   |   |
| Machinery operators and drivers | 86 | 76 | 112 | 95 | 61 | 63 | 66 |
| Road and rail drivers | 65 | 55 | 82 | 72 | 46 | 49 | 42 |
| Mobile plant operators | 11 | 8 | 17 | 12 | 7 | 6 | 16 |
| Machine and stationary plant operators | 7 | 11 | 7 | 9 | 8 | 7 | 8 |
| Labourers | 61 | 42 | 56 | 40 | 41 | 41 | 44 |
| Farm, forestry and garden workers | 22 | 15 | 16 | 12 | 16 | 11 | 20 |
| Construction and mining labourers | 24 | 12 | 13 | 11 | 12 | 8 | 9 |
| Technicians and trades workers | 31 | 43 | 55 | 37 | 43 | 29 | 28 |
| Construction trades workers | 10 | 6 | 17 | 13 | 8 | 3 | 10 |
| Automotive and engineering trades workers | 10 | 13 | 13 | 10 | 11 | 11 | 7 |
| Electrotechnology and telecommunications trades workers | 9 | 13 | 13 | 6 | 14 | 9 | 7 |
| Managers | 40 | 50 | 38 | 43 | 40 | 32 | 32 |
| Farmers and farm managers | 31 | 35 | 27 | 32 | 34 | 27 | 23 |
| Professionals | 19 | 24 | 24 | 20 | 25 | 12 | 10 |
| Design, engineering, science and transport professionals | 17 | 19 | 12 | 13 | 19 | 9 | 5 |
| Community and personal service workers | 11 | 12 | 10 | 14 | 10 | 14 | 8 |
| Protective service workers | 7 | 8 | 5 | 8 | 3 | 4 | .. |
| Sales workers | 7 | 5 | 10 | 4 | 1 | 6 | 2 |
| Clerical and administrative workers | 4 | 6 | 5 | 5 | 3 | 1 | 2 |
| Unknown | .. | .. | .. | .. | .. | 3 | 3 |
| Total\* | 259 | 258 | 310 | 258 | 224 | 201 | 195 |
| Fatality rate (deaths per 100 000 workers) |  |  |  |  |  |  |  |
| Machinery operators and drivers | 13.7 | 11.9 | 15.7 | 13.8 | 8.2 | 8.1 | 8.9 |
| Road and rail drivers | 24.9 | 20.7 | 28.6 | 25.0 | 14.8 | 15.2 | 13.0 |
| Mobile plant operators | 9.3 | 6.5 | 12.2 | 9.1 | 5.0 | 4.4 | 12.3 |
| Machine and stationary plant operators | 4.0 | 6.9 | 4.1 | 5.7 | 4.7 | 3.8 | 5.0 |
| Labourers | 5.6 | 3.8 | 4.9 | 3.5 | 3.6 | 3.6 | 3.9 |
| Farm, forestry and garden workers | 15.8 | 13.2 | 13.8 | 11.1 | 13.7 | 11.0 | 17.2 |
| Construction and mining labourers | 17.8 | 8.4 | 7.8 | 6.8 | 7.1 | 5.2 | 5.7 |
| Technicians and trades workers | 2.2 | 2.9 | 3.5 | 2.3 | 2.6 | 1.7 | 1.6 |
| Construction trades workers | 3.3 | 1.8 | 5.0 | 3.7 | 2.1 | 0.8 | 2.7 |
| Automotive and engineering trades workers | 3.0 | 3.8 | 3.7 | 2.8 | 3.1 | 3.0 | 1.8 |
| Electrotechnology and telecommunications trades workers | 4.6 | 7.0 | 6.1 | 2.8 | 6.4 | 4.0 | 2.9 |
| Managers | 3.5 | 4.0 | 2.8 | 3.1 | 2.8 | 2.2 | 2.1 |
| Farmers and farm managers | 15.7 | 17.7 | 13.7 | 15.9 | 20.2 | 17.2 | 13.8 |
| Professionals | 1.0 | 1.2 | 1.1 | 0.9 | 1.0 | 0.5 | 0.4 |
| Design, engineering, science and transport professionals | 6.9 | 6.5 | 3.9 | 3.8 | 5.0 | 2.3 | 1.3 |
| Community and personal service workers | 1.4 | 1.4 | 1.1 | 1.4 | 0.9 | 1.2 | 0.7 |
| Protective service workers | 5.9 | 6.5 | 4.1 | 6.1 | 2.2 | 2.7 | .. |
| Sales workers | 0.7 | 0.5 | 1.0 | 0.4 | 0.1 | 0.6 | 0.2 |
| Clerical and administrative workers | 0.3 | 0.4 | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 |
| Total\* | 2.7 | 2.6 | 3.0 | 2.4 | 2.0 | 1.7 | 1.6 |

Note: Only selected subcategories are included. Therefore the number of fatalities in the selected subcategories will not add to the category total.

\*Total includes occupations which are unknown, therefore the sum of figures for each column may not equal the total.

## State/territory of fatality

The most populous states accounted for the majority of fatalities over the 13 years of the series. New South Wales accounted for 30 per cent of the worker fatalities followed by Queensland with 25 per cent and Victoria with 20 per cent.

Table 16 shows in 2015, 60 workers were killed in New South Wales, 49 in Queensland, 35 in Western Australia and 34 in Victoria.

#### Table 16: Worker fatalities: number and fatality rate by state/territory of incident, 2003 to 2015 (sorted by total fatalities)

| State | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | Total |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Number of worker fatalities  |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| New South Wales | 85 | 75 | 91 | 95 | 86 | 83 | 63 | 67 | 58 | 82 | 55 | 58 | 60 | 958 |
| Queensland | 57 | 58 | 70 | 61 | 78 | 77 | 69 | 49 | 61 | 57 | 53 | 50 | 49 | 789 |
| Victoria | 54 | 67 | 42 | 67 | 69 | 47 | 51 | 47 | 46 | 35 | 32 | 42 | 34 | 633 |
| Western Australia | 28 | 36 | 23 | 23 | 45 | 43 | 33 | 31 | 24 | 24 | 33 | 22 | 35 | 400 |
| South Australia | 13 | 19 | 18 | 20 | 10 | 15 | 19 | 20 | 18 | 13 | 15 | 10 | 10 | 200 |
| Tasmania | 17 | 13 | 8 | 10 | 11 | 9 | 15 | 7 | 9 | 6 | 8 | 8 | 6 | 127 |
| Northern Territory | 4 | 13 | 5 | 6 | 10 | 9 | 6 | 6 | 7 | 9 | 4 | 4 | 1 | 84 |
| Australian Capital Territory | 1 | 3 | 1 | 2 | 1 |  .. | 2 | 1 | 1 | 3 | 1 |  .. |  .. | 16 |
| Total | 259 | 284 | 258 | 284 | 310 | 283 | 258 | 228 | 224 | 229 | 201 | 194 | 195 | 3207 |
| Fatality rate (deaths per 100 000 workers) |   |   |   |   |   |   |  |  |  |  |  |  |  |  |
| New South Wales | 2.7 | 2.4 | 2.9 | 2.9 | 2.6 | 2.5 | 1.9 | 1.9 | 1.7 | 2.3 | 1.5 | 1.6 | 1.6 | 2.2 |
| Queensland | 3.2 | 3.1 | 3.6 | 3.0 | 3.7 | 3.5 | 3.1 | 2.2 | 2.7 | 2.5 | 2.3 | 2.2 | 2.1 | 2.8 |
| Victoria | 2.3 | 2.8 | 1.7 | 2.7 | 2.7 | 1.8 | 1.9 | 1.7 | 1.6 | 1.2 | 1.1 | 1.5 | 1.1 | 1.8 |
| Western Australia | 2.9 | 3.7 | 2.2 | 2.1 | 4.0 | 3.7 | 2.8 | 2.6 | 1.9 | 1.8 | 2.5 | 1.6 | 2.6 | 2.6 |
| South Australia | 1.8 | 2.7 | 2.4 | 2.7 | 1.3 | 1.9 | 2.4 | 2.5 | 2.2 | 1.6 | 1.9 | 1.2 | 1.2 | 2.0 |
| Tasmania | 8.2 | 6.1 | 3.6 | 4.5 | 4.8 | 3.8 | 6.4 | 2.9 | 3.8 | 2.6 | 3.5 | 3.4 | 2.5 | 4.3 |
| Northern Territory | 4.1 | 13.3 | 5.2 | 6.0 | 9.3 | 8.1 | 5.0 | 5.0 | 5.8 | 7.1 | 3.1 | 3.0 | 0.8 | 5.6 |
| Australian Capital Territory | 0.6 | 1.7 | 0.5 | 1.0 | 0.5 | 0.0 | 1.0 | 0.5 | 0.5 | 1.4 | 0.5 | 0.0 | 0.0 | 0.6 |
| Total | 2.7 | 3.0 | 2.6 | 2.8 | 3.0 | 2.6 | 2.4 | 2.1 | 2.0 | 2.0 | 1.7 | 1.7 | 1.6 | 2.6 |

## State/territory by industry

Table 17 shows the industries which had the highest numbers of fatalities in each state or territory over the 13 years from 2003 to 2015. The analysis excludes the Australian Capital Territory due to the small numbers of fatalities involved.

Transport, postal and warehousing accounted for the largest number of fatalities in New South Wales, Victoria and Western Australia whereas Agriculture, forestry and fishing accounted for the most fatalities in Queensland, South Australia, Tasmania and the Northern Territory.

#### Table 17: Worker fatalities: number and percentage by state/territory of incident and the industries with the highest number of fatalities, 2003 to 2015 combined

| Industry | New South Wales | Victoria | Queensland | Western Australia | South Australia | Tasmania | Northern Territory | Total\* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Number of worker fatalities |  |  |  |  |  |  |  |  |
| Transport, postal and warehousing | 246 | 159 | 189 | 82 | 42 | 20 | 15 | 754 |
| Agriculture, forestry and fishing | 194 | 146 | 193 | 81 | 50 | 50 | 28 | 744 |
| Construction | 141 | 91 | 129 | 48 | 31 | 15 | 9 | 469 |
| Manufacturing | 91 | 57 | 55 | 48 | 14 | 9 | 1 | 275 |
| Public administration and safety | 36 | 26 | 31 | 12 | 7 | 6 | 4 | 123 |
| Mining | 17 | 9 | 33 | 40 | 14 | 6 | 3 | 122 |
| Administrative and support services | 32 | 21 | 27 | 17 | 7 | 1 | 3 | 109 |
| Wholesale trade | 39 | 20 | 20 | 9 | 6 | 2 | 2 | 98 |
| Retail trade | 36 | 18 | 13 | 9 | 3 | 2 | 1 | 82 |
| Arts and recreation services | 23 | 7 | 25 | 10 | 4 | 1 | 2 | 73 |
| Other industries | 103 | 79 | 74 | 44 | 22 | 15 | 16 | 358 |
| Total | 958 | 633 | 789 | 400 | 200 | 127 | 84 | 3207 |
| Percentage of worker fatalities |  |  |  |  |  |  |  |  |
| Transport, postal and warehousing | 26% | 25% | 24% | 21% | 21% | 16% | 18% | 24% |
| Agriculture, forestry and fishing | 20% | 23% | 24% | 20% | 25% | 39% | 33% | 23% |
| Construction | 15% | 14% | 16% | 12% | 16% | 12% | 11% | 15% |
| Manufacturing | 9% | 9% | 7% | 12% | 7% | 7% | 1% | 9% |
| Public administration and safety | 4% | 4% | 4% | 3% | 4% | 5% | 5% | 4% |
| Mining | 2% | 1% | 4% | 10% | 7% | 5% | 4% | 4% |
| Administrative and support services | 3% | 3% | 3% | 4% | 4% | 1% | 4% | 3% |
| Wholesale trade | 4% | 3% | 3% | 2% | 3% | 2% | 2% | 3% |
| Retail trade | 4% | 3% | 2% | 2% | 2% | 2% | 1% | 3% |
| Arts and recreation services | 2% | 1% | 3% | 3% | 2% | 1% | 2% | 2% |
| Other industries | 11% | 12% | 9% | 11% | 11% | 12% | 19% | 11% |
| Total\*\* | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |

\* includes Australian Capital Territory.

\*\* The percentages shown in this table have been rounded to the nearest whole number, therefore the sum of percentage figures for each column may not equal the total

# Bystander fatalities

The actions of a worker or a fault in a workplace resulted in the deaths of 49 members of the public in 2015. This is the lowest number of members of the public killed over the 13 years of the series.

Over the 13 years of the series, 59 per cent of the bystander fatalities were male and 64 per cent involved an incident on a public road.

## Age group

Table 18 shows over the 13 years of the series, the oldest (65 years and over) and youngest (14 and under) age groups accounted for the highest proportion of bystander fatalities, 22 per cent and 18 per cent respectively.

#### Table 18: Bystander fatalities: numbers and proportions by age group, 2003 to 2015 (selected years)

| Age group | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | Total | % of total |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 and under | 8 | 10 | 21 | 13 | 2 | 10 | 6 | 147 | 18% |
| 15-24 | 8 | 9 | 9 | 15 | 5 | 7 | 3 | 94 | 12% |
| 25-34 | 9 | 10 | 11 | 6 | 9 | 12 | 7 | 103 | 13% |
| 35-44 | 4 | 7 | 6 | 6 | 4 | 6 | 6 | 90 | 11% |
| 45-54 | 10 | 5 | 12 | 4 | 8 | 9 | 8 | 97 | 12% |
| 55-64 | 10 | 11 | 3 | 6 | 8 | 10 | 10 | 99 | 12% |
| 65 and over | 8 | 13 | 13 | 3 | 27 | 12 | 9 | 173 | 22% |
| Total\* | 57 | 65 | 75 | 53 | 63 | 66 | 49 | 803 | 100% |

\* The percentages shown in this table have been rounded to the nearest whole number, therefore the sum of percentage figures for each column may not equal the total.

## Mechanism of fatality

Table 19 shows over the 2003–15 period 60 per cent of the bystander fatalities were due to a vehicle collision, with being hit by moving objects accounting for a further 16 per cent.

Falls from a height accounted for 7 per cent of bystander fatalities, and drowning 4 per cent (36 fatalities). The majority (58 per cent) of the deaths from drowning were of children aged 14 years and under.

#### Table 19: Bystander fatalities: number by mechanism of incident and breakdown agency, 2003 to 2015 (selected years, sorted by 2015 fatalities)

| Mechanism of incident | 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | Total | % of total |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vehicle collision | 38 | 37 | 50 | 32 | 24 | 42 | 30 | 480 | 60% |
| Being hit by moving objects | 7 | 15 | 9 | 5 | 15 | 8 | 8 | 129 | 16% |
| Falls from a height  | 2 | 3 | 2 | 6 | 3 | 4 | 3 | 54 | 7% |
| Drowning | 1 | 5 | 5 | 3 | 1 | .. | 5 | 36 | 4% |
| Being hit by falling objects | 2 | 2 | 5 | .. | 3 | 6 | 2 | 34 | 4% |
| Contact with hot objects | 2 | 1 | .. | .. | 13 | .. | .. | 17 | 2% |
| Being assaulted by a person or persons | 1 | .. | .. | 1 | 2 | 1 | .. | 9 | 1% |
| Falls on the same level | .. | .. | 1 | 2 | .. | 2 | 1 | 7 | 1% |
| Being trapped by moving machinery | 1 | .. | .. | 1 | .. | 1 | .. | 7 | 1% |
| Rollover of non-road vehicle | 1 | 1 | .. | 1 | .. | 1 | .. | 5 | 1% |
| Other mechanisms | 2 | 1 | 3 | 2 | 2 | 1 | 0 | 25 | 3% |
| Total\* | 57 | 65 | 75 | 53 | 63 | 66 | 49 | 803 | 100% |

\* The percentages shown in this table have been rounded to the nearest whole number, therefore the sum of percentage figures for each column may not equal the total.

# Glossary

Being hit by moving objects - Part of the Mechanism classification used to describe the action of an object hitting a person. This includes pedestrians hit by vehicles as well as being hit by other moving equipment or objects.

Breakdown agency - A part of the TOOCS classification which identified the object, substance or circumstance principally involved at the point at which things started to go wrong.

Bystander fatality - The death of a person who dies from injuries sustained as a result of another person’s work activity and who was not engaged in a work activity of their own at the time of the injury.

A traffic incident death is only classified as a bystander fatality when attributable to someone else’s work activity. Typically, this means the driver of a work vehicle is at fault. Cases where fault could not be determined with sufficient confidence are excluded.

Contributing family workers - A person who works without pay in an economic enterprise operated by a relative.

Employed person - The denominators used in calculating fatality rates in this report are based on ABS estimates of Employed persons, as defined in Labour force, Australia (ABS cat no 6202.0). This population includes Employees (who work for an employer); self-employed persons (regardless of whether they employ others or not); and those who work without pay for a family business or farm. It excludes persons whose only work is voluntary.

Employee - A person who works for a public or private employer and receives remuneration in wages, salary, a retainer fee from their employer while working on a commission basis, tips, piece-rates, or payment in kind; or a person who operates his or her own incorporated enterprise with or without hiring employees.

Fatality rate - The number killed as a result of work-related injury expressed as a per-capita rate against the population at risk of work-related injury. In this report the rate is expressed as the number of fatalities per 100 000 Employed persons: for brevity this is usually expressed as ‘fatalities per 100 000 workers’. See Paragraph 4 of the Explanatory notes for further details.

Industry - A grouping of businesses that carry out similar economic activities. Fatalities data in this publication have been coded to the Australian and New Zealand Standard Industrial Classification (ANZSIC) 2006 (ABS cat. no. 1292.0) and unless specified are shown at the industry division level.

Injury - A condition coded to ‘External causes of morbidity and mortality’ and ‘Injury, poisoning and certain other consequences of external causes’ in the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Australian Modification (ICD-10-AM).

Job - A set of tasks designed to be performed by one person for an employer (including self-employment) in return for payment or profit.

Mechanism of incident - The action, exposure or event that best describes the circumstances that resulted in the most serious injury.

Non-public road incident - An incident involving a vehicle that occurred at a worksite, on a private road or a public area that is not a public road. These incidents include plane crashes and incidents involving watercraft as well as vehicle crashes on farming properties.

Occupation - A set of jobs with similar sets of tasks. Fatalities data in this publication have been coded to the Australian and New Zealand Standard Classification of Occupations (ANZSCO) (ABS cat. no. 1220.0) First edition and unless specified are shown at the major group level.

Public road incident - A collision on a public road between any vehicle or self-propelled plant and anything else including a pedestrian. Incidents involving vehicles at worksites or on private roads are excluded. Public road incidents can be due to a Vehicle collision or Being hit by a vehicle (which is included in the Mechanism of Being hit by moving objects). Vehicles that are caught in bush fires or hit by falling trees while on public roads are not classed as public road incidents as they do not involve a collision.

Rollover of non-road vehicle - Part of the Mechanism classification used to identify when a vehicle that is not normally a road vehicle overturns. This includes tractors and quad bikes being used on farm properties.

Self-employed - Includes both owner managers and employers. An owner manager is a person who works in his/her own business, with or without employees, whether or not the business is of limited liability. An employer is a person who operates his/her own unincorporated economic enterprise or engages independently in a profession or trade, and hires one or more employees.

Type of occurrence classification system (TOOCS) - A suite of four classifications to code the way an injury occurred, comprising the Nature of injury/disease classification, the Bodily location of injury/disease classification, Mechanism of incident classification, and the Agency of injury/disease classification. Version 3.1 is used for coding the data presented in this report. Fatalities are only coded by Mechanism and Agency.

Vehicle collision - Part of the Mechanism of incident classification that identifies fatalities that occurred due to a vehicle crash and where the occupant of the vehicle was killed. In the classification, this category is called Vehicle Incident but has been renamed to assist with reader understanding. Vehicle collisions that occur on public roads are further classified as a public road incidents and do not include people hit by a vehicle, which are coded to Being hit by moving objects. Vehicles not only include cars and trucks but also include other motorised equipment such as aircraft, boats, loaders, tractors and quad bikes.

Volunteer - Persons who undertake voluntary work through or for an organisation or group are included in the worker counts where that organisation or group is a business enterprise. It does not include sporting organisations or caring activities.

Worker fatality - The death of a person who dies from injuries sustained while at work, including those workers whose injury was caused by another’s work activity. Workers include employees, self-employed persons, volunteers and contributing family workers.

# Appendices

#### Appendix A1: Worker fatalities: number by mechanism of incident, 2003 to 2015 (sorted by total fatalities)

| Mechanism of incident | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | Total | % of 2015\* | % of total\* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vehicle collision | 108 | 121 | 103 | 124 | 129 | 121 | 112 | 78 | 78 | 91 | 69 | 71 | 53 | 1258 | 27% | 39% |
| Being hit by moving objects | 40 | 37 | 29 | 32 | 38 | 32 | 31 | 28 | 19 | 28 | 24 | 22 | 27 | 387 | 14% | 12% |
| Falls from a height  | 27 | 25 | 26 | 39 | 32 | 30 | 29 | 27 | 22 | 30 | 24 | 22 | 26 | 359 | 13% | 11% |
| Being hit by falling objects | 15 | 21 | 25 | 25 | 24 | 23 | 15 | 29 | 27 | 27 | 25 | 17 | 21 | 294 | 11% | 9% |
| Contact with electricity | 13 | 16 | 13 | 18 | 13 | 9 | 13 | 10 | 10 | 6 | 8 | 5 | 8 | 142 | 4% | 4% |
| Rollover of non-road vehicle | 9 | 13 | 11 | 6 | 12 | 11 | 12 | 11 | 11 | 6 | 15 | 7 | 13 | 137 | 7% | 4% |
| Being trapped by moving machinery | 6 | 9 | 11 | 7 | 11 | 13 | 11 | 12 | 13 | 9 | 10 | 11 | 9 | 132 | 5% | 4% |
| Being trapped between stationary and moving objects | 9 | 13 | 12 | 12 | 11 | 8 | 7 | 8 | 13 | 5 | 7 | 12 | 12 | 129 | 6% | 4% |
| Being assaulted by a person or persons | 12 | 9 | 7 | 5 | 8 | 3 | 4 | 4 | 3 | 6 | 6 | 4 | 4 | 75 | 2% | 2% |
| Drowning | 4 | 3 | 2 | 2 | 5 | 9 | 8 | 2 | 3 | 3 | 4 | 1 | 5 | 51 | 3% | 2% |
| Explosion | 3 | 1 | 2 | 1 | 1 | 7 | 1 | 3 | 5 | 2 | 1 | 6 | 5 | 38 | 3% | 1% |
| Being hit by an animal | 1 | 3 | 2 | 1 | 2 | 3 | 2 | 3 | 6 | 4 | 2 | 1 | 1 | 31 | 1% | 1% |
| Falls on the same level | 3 | 5 | 1 | 1 | 4 | 4 | 2 | 2 | .. | 3 | .. | 1 | 1 | 27 | 1% | 1% |
| Contact with hot objects | 1 | .. | 2 | 1 | 7 | 3 | .. | 1 | 3 | 1 | 1 | 4 | 3 | 27 | 2% | 1% |
| Slide or cave-in | 1 | 2 | 4 | 3 | 1 | .. | 1 | 1 | 2 | 1 | .. | 5 | 1 | 22 | 1% | 1% |
| Exposure to environmental heat | 1 | 1 | .. | 1 | 3 | .. | 2 | 1 | 2 | 1 | 2 | 1 | 3 | 18 | 2% | 1% |
| Single contact with chemical or substance | 3 | .. | .. | 1 | 3 | 1 | 1 | 2 | 2 | 2 | .. | 2 | .. | 17 | 0%\* | 1% |
| Hitting stationary objects | .. | 1 | 1 | .. | 1 | .. | 1 | 2 | 1 | 2 | 2 | .. | 2 | 13 | 1% | 0%\* |
| Being bitten by an animal | 1 | 1 | 3 | 2 | .. | .. | .. | 1 | 2 | 2 | .. | .. | .. | 12 | 0%\* | 0%\* |
| Hitting moving objects | .. | 1 | 3 | .. | 3 | 3 | 1 | .. | .. | .. | .. | .. | .. | 11 | 0%\* | 0%\* |
| Insect and spider bites and stings | .. | 1 | .. | .. | 2 | 3 | 1 | 1 | .. | .. | 1 | 1 | .. | 10 | 0%\* | 0%\* |
| Being hit by a person accidentally | .. | .. | .. | .. | .. | .. | 2 | 2 | 2 | .. | .. | .. | .. | 6 | 0%\* | 0%\* |
| Other and multiple mechanisms of injury | 1 | .. | 1 | .. | .. | .. | 1 | .. | .. | .. | .. | .. | .. | 3 | 0%\* | 0%\* |
| Other variations in pressure | .. | 1 | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 3 | 0%\* | 0%\* |
| Exposure to other and unspecified environmental factors | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | 1 | 1 | 3 | 1% | 0%\* |
| Unspecified mechanisms of injury | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 0%\* | 0%\* |
| Contact with poisonous parts of plant or marine life | .. | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 0%\* | 0%\* |
| Total\* | 259 | 284 | 258 | 284 | 310 | 283 | 258 | 228 | 224 | 229 | 201 | 194 | 195 | 3207 | 100% | 100% |

\* The percentages shown in this table have been rounded to the nearest whole number, therefore the sum of percentage figures for each column may not equal the total.

#### Appendix A2: Worker fatalities: number and proportion by breakdown agency, 2003 to 2015 (sorted by total fatalities)

| Breakdown agency | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | Total | % of 2015 fatalities | % of total fatalities |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Mobile plant and transport | 161 | 180 | 151 | 172 | 192 | 184 | 167 | 133 | 132 | 142 | 123 | 112 | 103 | 1952 | 53% | 61% |
| Road transport | 99 | 114 | 100 | 112 | 139 | 115 | 110 | 84 | 72 | 91 | 73 | 69 | 54 | 1232 | 28% | 38% |
| Trucks, semi-trailers, lorries | 58 | 72 | 50 | 66 | 76 | 67 | 65 | 47 | 47 | 55 | 42 | 49 | 36 | 730 | 18% | 23% |
| Cars, station wagons, vans, utilities | 38 | 36 | 42 | 43 | 54 | 36 | 41 | 35 | 22 | 35 | 23 | 19 | 18 | 442 | 9% | 14% |
| Air transport | 24 | 12 | 15 | 21 | 11 | 19 | 11 | 14 | 21 | 13 | 10 | 9 | 4 | 184 | 2% | 6% |
| Industrial aircraft | 9 | 7 | 4 | 11 | 7 | 13 | 11 | 13 | 10 | 12 | 9 | 3 | 4 | 113 | 2% | 4% |
| Passenger aircraft | 15 | 4 | 11 | 10 | 4 | 6 | .. | 1 | 10 | 1 | 1 | 6 | .. | 69 | 0% | 2% |
| Self-propelled plant | 8 | 12 | 10 | 10 | 11 | 14 | 11 | 8 | 9 | 13 | 6 | 10 | 14 | 136 | 7% | 4% |
| Front-end loaders, log handling plant, other loading plant | .. | 5 | 5 | 4 | 5 | 4 | 1 | 1 | 2 | 6 | 2 | 3 | 4 | 42 | 2% | 1% |
| Excavators, backhoes, other digging plant | 3 | 3 | 1 | 2 | 2 | 1 | 3 | 3 | 4 | 3 | 1 | 2 | 4 | 32 | 2% | 1% |
| Graders, dozers, snowploughs, other scraping plant | 3 | 1 | 2 | 2 | 1 | 5 | 1 | 2 | 1 | .. | 1 | 2 | 3 | 24 | 2% | 1% |
| Other mobile plant | 20 | 23 | 16 | 15 | 14 | 15 | 15 | 16 | 13 | 12 | 16 | 14 | 15 | 204 | 8% | 6% |
| Tractors, agricultural or otherwise | 13 | 22 | 13 | 13 | 7 | 11 | 13 | 13 | 9 | 6 | 12 | 10 | 7 | 149 | 4% | 5% |
| Water transport | 4 | 9 | 6 | 4 | 4 | 11 | 9 | 4 | 4 | 4 | 4 | 1 | 5 | 69 | 3% | 2% |
| Other transport | 3 | 4 | 3 | 3 | 4 | 8 | 7 | 1 | 10 | 4 | 12 | 6 | 7 | 72 | 4% | 2% |
| All terrain vehicle (atv) | 3 | 4 | 3 | 2 | 4 | 8 | 6 | 1 | 10 | 4 | 12 | 6 | 7 | 70 | 4% | 2% |
| Machinery and (mainly) fixed plant | 23 | 27 | 32 | 30 | 29 | 29 | 31 | 25 | 32 | 22 | 24 | 21 | 17 | 342 | 9% | 11% |
| Conveyors and lifting plant | 13 | 10 | 20 | 18 | 18 | 17 | 16 | 14 | 22 | 12 | 17 | 12 | 9 | 198 | 5% | 6% |
| Forklift trucks | 4 | 4 | 6 | 9 | 5 | 8 | 3 | 8 | 4 | 2 | 6 | 5 | 4 | 68 | 2% | 2% |
| Power hoists | 2 | 3 | 3 | 1 | 9 | 6 | 6 | 4 | 8 | 3 | 4 | 3 | 2 | 54 | 1% | 2% |
| Cranes | 5 | 1 | 7 | 4 | 3 | 2 | 5 | .. | 7 | 4 | 6 | 2 | 1 | 47 | 1% | 1% |
| Electrical installation | 6 | 6 | 6 | 5 | 4 | 5 | 11 | 5 | 4 | 3 | 6 | 2 | 4 | 67 | 2% | 2% |
| Environmental agencies | 29 | 28 | 27 | 29 | 28 | 20 | 25 | 20 | 21 | 32 | 17 | 27 | 33 | 336 | 17% | 10% |
| Buildings and other structures | 16 | 12 | 9 | 14 | 7 | 8 | 10 | 6 | 4 | 12 | 5 | 8 | 7 | 118 | 4% | 4% |
| Buildings under construction or demolition | 3 | 5 | 1 | 6 | .. | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 25 | 1% | 1% |
| Roof | 9 | 2 | 6 | 5 | 5 | 5 | 3 | 1 | 3 | 8 | 3 | 5 | 6 | 61 | 3% | 2% |
| Vegetation | 3 | 6 | 11 | 5 | 6 | 3 | 3 | 6 | 6 | 6 | 7 | 2 | 5 | 69 | 3% | 2% |
| Non-powered handtools, appliances and equipment | 13 | 17 | 11 | 20 | 24 | 22 | 13 | 23 | 8 | 8 | 14 | 13 | 18 | 204 | 9% | 6% |
| Ladders, mobile ramps and stairways, and scaffolding | 4 | 3 | 5 | 7 | 13 | 9 | 7 | 11 | 7 | 2 | 4 | 4 | 6 | 82 | 3% | 3% |
| Ladders | 3 | 3 | 3 | 5 | 10 | 4 | 4 | 9 | 6 | 1 | 3 | 3 | 3 | 57 | 2% | 2% |
| Scaffolding | 1 | .. | 2 | .. | 3 | 5 | 3 | 2 | 1 | 1 | 1 | .. | 2 | 21 | 1% | 1% |
| Animal, human and biological agencies | 15 | 15 | 14 | 14 | 14 | 12 | 9 | 11 | 13 | 10 | 11 | 9 | 11 | 158 | 6% | 5% |
| Live four-legged animals | 4 | 6 | 6 | 6 | 6 | 5 | 4 | 7 | 7 | 5 | 6 | 5 | 4 | 71 | 2% | 2% |
| Horses, donkeys, mules | 3 | 3 | 4 | 5 | 4 | 3 | 3 | 3 | 3 | 1 | 3 | 5 | 3 | 43 | 2% | 1% |
| Cows, steers, cattle, bulls, buffalo | 1 | 2 | .. | 1 | 1 | 2 | 1 | 3 | 3 | 3 | 2 | .. | 1 | 20 | 1% | 1% |
| Human agencies | 10 | 7 | 6 | 5 | 6 | 4 | 4 | 2 | 4 | 3 | 4 | 3 | 7 | 65 | 4% | 2% |
| Other person | 8 | 6 | 5 | 5 | 6 | 3 | 4 | 2 | 4 | 3 | 4 | 3 | 3 | 56 | 2% | 2% |
| Powered equipment, tools and appliances | 8 | 7 | 6 | 12 | 10 | 8 | 8 | 10 | 7 | 6 | 4 | 2 | 6 | 94 | 3% | 3% |
| Materials and substances | 7 | 10 | 13 | 4 | 8 | 6 | 5 | 2 | 8 | 7 | 6 | 7 | 6 | 89 | 3% | 3% |
| Chemicals and chemical products | 2 | .. | 4 | 3 | 3 | 2 | .. | 4 | 3 | 2 | 2 | 3 | 1 | 29 | 1% | 1% |
| Total\* | 259 | 284 | 258 | 284 | 310 | 283 | 258 | 228 | 224 | 229 | 201 | 194 | 195 | 3207 | 100% | 100% |

Note: Only selected breakdown agency subgroups and classes are included. Therefore the number of fatalities in the selected subcategories will not add to the category total.

\* The total number of fatalities and percentage figures for each column shown in this table will not add to the total due to rounding and the inclusion of selected breakdown agency subgroups and classes within the major group headings.

#### Appendix A3: Worker fatalities: number by industry of employer, 2003 to 2015 (sorted by total fatalities)

| Industry of employer | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | Total | % of 2015\* | % of total\* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Transport, postal and warehousing | 68 | 66 | 55 | 62 | 83 | 71 | 64 | 44 | 48 | 61 | 46 | 46 | 40 | 754 | 21% | 24% |
| Road Transport | 45 | 50 | 41 | 52 | 62 | 52 | 56 | 32 | 29 | 52 | 39 | 39 | 34 | 583 | 17% | 18% |
| Road freight transport | 40 | 47 | 37 | 47 | 58 | 50 | 51 | 31 | 25 | 45 | 34 | 36 | 34 | 535 | 17% | 17% |
| Agriculture, forestry and fishing | 60 | 77 | 62 | 46 | 52 | 69 | 62 | 55 | 59 | 53 | 52 | 45 | 52 | 744 | 27% | 23% |
| Agriculture | 46 | 54 | 44 | 35 | 40 | 45 | 45 | 46 | 45 | 35 | 40 | 40 | 40 | 555 | 21% | 17% |
| Construction | 43 | 35 | 30 | 43 | 45 | 38 | 36 | 41 | 41 | 30 | 22 | 32 | 33 | 469 | 17% | 15% |
| Manufacturing | 20 | 23 | 23 | 29 | 25 | 30 | 23 | 21 | 22 | 18 | 12 | 16 | 13 | 275 | 7% | 9% |
| Public administration and safety | 9 | 11 | 14 | 13 | 13 | 4 | 11 | 6 | 11 | 8 | 11 | 6 | 6 | 123 | 3% | 4% |
| Mininga | 11 | 11 | 9 | 15 | 7 | 12 | 10 | 5 | 6 | 8 | 8 | 10 | 10 | 122 | 5% | 4% |
| Administrative and support services | 4 | 9 | 12 | 8 | 12 | 10 | 12 | 12 | 8 | 6 | 5 | 4 | 7 | 109 | 4% | 3% |
| Wholesale trade | 7 | 10 | 11 | 8 | 8 | 11 | 4 | 10 | 3 | 9 | 8 | 6 | 3 | 98 | 2% | 3% |
| Retail trade | 7 | 5 | 7 | 10 | 17 | 6 | 5 | 7 | 2 | 5 | 8 | .. | 3 | 82 | 2% | 3% |
| Arts and recreation services | 3 | 5 | 6 | 5 | 10 | 3 | 1 | 5 | 6 | 5 | 7 | 10 | 7 | 73 | 4% | 2% |
| Other services | 4 | 7 | 10 | 7 | 4 | 7 | 4 | 2 | 4 | 3 | 7 | 4 | 7 | 70 | 4% | 2% |
| Electricity, gas, water and waste services | 5 | 8 | 6 | 8 | 4 | 4 | 5 | 1 | 2 | 3 | 4 | 5 | 4 | 59 | 2% | 2% |
| Professional, scientific and technical services | 2 | 6 | 2 | 6 | 7 | 5 | 4 | 4 | 2 | 8 | 2 | .. | 2 | 50 | 1% | 2% |
| Rental, hiring and real estate services | 4 | 2 | 6 | 4 | 10 | 4 | 2 | 4 | 2 | 3 | 3 | 1 | 1 | 46 | 1% | 1% |
| Accommodation and food services | 5 | 4 | .. | 8 | 6 | 2 | 3 | 2 | 1 | 1 | 2 | 6 | 3 | 43 | 2% | 1% |
| Health care and social assistance | 3 | 3 | 3 | 2 | .. | 2 | 6 | 4 | 2 | 2 | 4 | 2 | 2 | 35 | 1% | 1% |
| Education and training | 2 | 1 | 2 | 8 | 4 | 2 | 2 | 2 | 2 | 4 | .. | 1 | 2 | 32 | 1% | 1% |
| Information media and telecommunications | 1 | 1 | .. | 1 | 3 | .. | 1 | 3 | 3 | 2 | .. | .. | .. | 15 | 0%\* | 0%\* |
| Financial and insurance services | 1 | .. | .. | 1 | .. | 3 | 3 | .. | .. | .. | .. | .. | .. | 8 | 0%\* | 0%\* |
| Total\* | 259 | 284 | 258 | 284 | 310 | 283 | 258 | 228 | 224 | 229 | 201 | 194 | 195 | 3207 | 100% | 100% |

a Mining fatalities include those that occur in coal and metal ore mining, oil and gas extraction, sand and gravel quarrying, exploration and support services.

Note: Only selected industry subdivisions and groups are included. Therefore the number of fatalities in the selected subdivisions and groups will not add to the category total.

\* The total number of fatalities and percentage figures for each column shown in this table will not equal the total due to rounding and the inclusion of selected subdivisions and groups within an industry division.

#### Appendix A4: Worker fatalities: fatality rate (fatalities per 100 000 workers) by industry of employer, 2003 to 2015 (sorted by total fatality rates)

| Industry of employer | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | Total |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Agriculture, forestry and fishing | 16.4 | 21.6 | 17.6 | 13.4 | 15.0 | 20.0 | 17.8 | 15.5 | 18.7 | 16.7 | 17.3 | 13.9 | 16.7 | 17.0 |
|  Agriculture | 14.5 | 17.5 | 14.6 | 11.7 | 13.3 | 15.1 | 14.6 | 14.8 | 16.5 | 12.7 | 15.4 | 14.3 | 14.7 | 14.6 |
| Transport, postal and warehousing | 14.6 | 13.7 | 11.1 | 12.4 | 15.5 | 12.5 | 11.0 | 7.7 | 8.3 | 10.9 | 7.8 | 7.8 | 6.6 | 10.6 |
|  Road transport | 20.2 | 22.4 | 19.5 | 23.2 | 26.4 | 22.1 | 23.4 | 14.8 | 12.7 | 23.1 | 16.6 | 16.2 | 13.3 | 19.5 |
|  Road freight transport | 26.1 | 32.0 | 27.3 | 32.0 | 38.0 | 29.1 | 30.0 | 19.6 | 15.6 | 29.0 | 20.7 | 21.0 | 18.4 | 25.8 |
| Mininga | 12.4 | 11.0 | 7.6 | 11.4 | 5.1 | 7.3 | 6.1 | 2.7 | 2.7 | 3.0 | 3.0 | 3.9 | 4.4 | 5.3 |
| Construction | 5.8 | 4.4 | 3.6 | 4.8 | 4.8 | 3.9 | 3.7 | 4.1 | 4.0 | 3.1 | 2.2 | 3.1 | 3.2 | 3.8 |
| Electricity, gas, water and waste services | 5.5 | 8.8 | 6.0 | 7.6 | 3.8 | 3.3 | 3.8 | 0.7 | 1.4 | 2.0 | 2.7 | 3.4 | 2.8 | 3.6 |
| Arts and recreation services | 2.1 | 3.2 | 3.5 | 2.9 | 5.2 | 1.6 | 0.5 | 2.6 | 2.9 | 2.4 | 3.4 | 4.9 | 3.1 | 3.0 |
| Administrative and support services | 1.2 | 2.7 | 3.4 | 2.3 | 3.4 | 2.9 | 3.4 | 3.1 | 2.0 | 1.5 | 1.3 | 1.0 | 1.7 | 2.3 |
| Manufacturing | 1.9 | 2.2 | 2.3 | 2.9 | 2.4 | 2.9 | 2.3 | 2.1 | 2.3 | 1.9 | 1.3 | 1.7 | 1.5 | 2.2 |
| Wholesale trade | 1.9 | 2.6 | 3.0 | 2.0 | 2.1 | 2.7 | 1.0 | 2.4 | 0.7 | 2.2 | 1.9 | 1.5 | 0.8 | 1.9 |
| Rental, hiring and real estate services | 2.4 | 1.1 | 3.4 | 2.1 | 5.0 | 2.0 | 1.1 | 2.1 | 1.0 | 1.4 | 1.5 | 0.5 | 0.5 | 1.8 |
| Public administration and safety | 1.6 | 1.9 | 2.3 | 2.1 | 2.0 | 0.6 | 1.6 | 0.9 | 1.5 | 1.1 | 1.5 | 0.8 | 0.8 | 1.4 |
| Other services\* | 0.9 | 1.7 | 2.5 | 1.7 | 0.9 | 1.5 | 0.9 | 0.4 | 0.9 | 0.7 | 1.5 | 0.8 | 1.5 | 1.2 |
| Retail trade\* | 0.6 | 0.5 | 0.6 | 0.9 | 1.4 | 0.5 | 0.4 | 0.6 | 0.2 | 0.4 | 0.7 | .. | 0.2 | 0.5 |
| Information media and telecommunications\* | 0.4 | 0.5 | .. | 0.4 | 1.2 | .. | 0.5 | 1.4 | 1.5 | 0.9 | .. | .. | .. | 0.5 |
| Professional, scientific and technical services\* | 0.3 | 1.0 | 0.3 | 0.8 | 0.9 | 0.6 | 0.5 | 0.5 | 0.2 | 0.9 | 0.2 | .. | 0.2 | 0.5 |
| Accommodation and food services\* | 0.8 | 0.6 | .. | 1.2 | 0.9 | 0.3 | 0.4 | 0.3 | 0.1 | 0.1 | 0.3 | 0.8 | 0.4 | 0.5 |
| Education and training\* | 0.3 | 0.1 | 0.3 | 1.1 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | .. | 0.1 | 0.2 | 0.3 |
| Health care and social assistance\* | 0.3 | 0.3 | 0.3 | 0.2 | .. | 0.2 | 0.5 | 0.3 | 0.2 | 0.1 | 0.3 | 0.1 | 0.1 | 0.2 |
| Financial and insurance services\* | 0.3 | .. | .. | 0.3 | .. | 0.7 | 0.8 | .. | .. | .. | .. | .. | .. | 0.2 |
| **Total\*** | **2.7** | **3.0** | **2.6** | **2.8** | **3.0** | **2.6** | **2.4** | **2.1** | **2.0** | **2.0** | **1.7** | **1.7** | **1.6** | **2.3** |

a Mining fatalities include those that occur in coal and metal ore mining, oil and gas extraction, sand and gravel quarrying, exploration and support services.

\* Movements in fatality rates in industries with 5 or fewer fatalities each year should be viewed with caution.

#### Appendix A5: Worker fatalities: number by occupation, 2003 to 2015 (sorted by total fatalities)

| Occupation | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | Total | % of 2015\* | % of total\* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Machinery operators and drivers | 86 | 91 | 76 | 89 | 112 | 94 | 95 | 64 | 61 | 78 | 63 | 66 | 66 | 1041 | 34% | 32% |
| Road and rail drivers | 65 | 71 | 55 | 69 | 82 | 67 | 72 | 47 | 46 | 62 | 49 | 48 | 42 | 775 | 22% | 24% |
| Mobile plant operators | 11 | 8 | 8 | 10 | 17 | 9 | 12 | 8 | 7 | 8 | 6 | 6 | 16 | 126 | 8% | 4% |
| Machine and stationary plant operators | 7 | 8 | 11 | 9 | 7 | 15 | 9 | 7 | 8 | 5 | 7 | 12 | 8 | 113 | 4% | 4% |
| Labourers | 61 | 60 | 42 | 52 | 56 | 65 | 40 | 51 | 41 | 48 | 41 | 50 | 44 | 651 | 23% | 20% |
| Farm, forestry and garden workers | 22 | 26 | 15 | 13 | 16 | 33 | 12 | 22 | 16 | 16 | 11 | 23 | 20 | 245 | 10% | 8% |
| Construction and mining labourers | 24 | 10 | 12 | 14 | 13 | 15 | 11 | 11 | 12 | 14 | 8 | 9 | 9 | 162 | 5% | 5% |
| Professionals | 19 | 15 | 24 | 25 | 24 | 21 | 20 | 24 | 25 | 22 | 12 | 11 | 10 | 252 | 5% | 8% |
| Design, engineering, science and transport professionals | 17 | 12 | 19 | 17 | 12 | 16 | 13 | 13 | 19 | 15 | 9 | 9 | 5 | 176 | 3% | 5% |
| Managers | 40 | 48 | 50 | 42 | 38 | 34 | 43 | 34 | 40 | 37 | 32 | 19 | 32 | 489 | 16% | 15% |
| Farmers and farm managers | 31 | 35 | 35 | 27 | 27 | 24 | 32 | 27 | 34 | 25 | 27 | 16 | 23 | 363 | 12% | 11% |
| Technicians and trades workers | 31 | 49 | 43 | 53 | 55 | 46 | 37 | 40 | 43 | 27 | 29 | 28 | 28 | 509 | 14% | 16% |
| Construction trades workers | 10 | 13 | 6 | 15 | 17 | 11 | 13 | 12 | 8 | 11 | 3 | 10 | 10 | 139 | 5% | 4% |
| Automotive and engineering trades workers | 10 | 15 | 13 | 12 | 13 | 16 | 10 | 10 | 11 | 4 | 11 | 7 | 7 | 139 | 4% | 4% |
| Electrotechnology and telecommunications trades workers | 9 | 11 | 13 | 11 | 13 | 9 | 6 | 8 | 14 | 6 | 9 | 7 | 7 | 123 | 4% | 4% |
| Community and personal service workers | 11 | 16 | 12 | 14 | 10 | 8 | 14 | 8 | 10 | 9 | 14 | 11 | 8 | 145 | 4% | 5% |
| Protective service workers | 7 | 6 | 8 | 7 | 5 | 3 | 8 | 4 | 3 | 7 | 4 | 3 | .. | 65 | 0%\* | 2% |
| Sales workers | 7 | 4 | 5 | 7 | 10 | 7 | 4 | 5 | 1 | 3 | 6 | 2 | 2 | 63 | 1% | 2% |
| Clerical and administrative workers | 4 | 1 | 6 | 2 | 5 | 8 | 5 | 2 | 3 | 5 | 1 | 3 | 2 | 47 | 1% | 1% |
| Total\* | 259 | 284 | 258 | 284 | 310 | 283 | 258 | 228 | 224 | 229 | 201 | 194 | 195 | 3207 | 100% | 100% |

Note: Only selected occupation sub-major classifications are included. Therefore the number of fatalities in the selected sub-major classifications will not add to the category total.

\*The total number of fatalities and percentage figures for each column shown in this table will not equal the total due to rounding and the inclusion of selected subdivisions and groups within an industry division.

#### Appendix A6: Worker fatalities: fatality rate by occupation, 2003 to 2015 (sorted by 2015 fatality rates)

| Occupation | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Machinery operators and drivers | 13.7 | 14.2 | 11.9 | 13.5 | 15.7 | 13.1 | 13.8 | 9.1 | 8.2 | 10.5 | 8.1 | 8.8 | 8.9 |
| Road and rail drivers | 24.9 | 26.2 | 20.7 | 25.2 | 28.6 | 23.2 | 25.0 | 16.3 | 14.8 | 20.8 | 15.2 | 15.1 | 13.0 |
| Mobile plant operators | 9.3 | 6.5 | 6.5 | 8.0 | 12.2 | 6.6 | 9.1 | 5.6 | 5.0 | 5.4 | 4.4 | 4.3 | 12.3 |
| Machine and stationary plant operators | 4.0 | 4.8 | 6.9 | 5.5 | 4.1 | 8.5 | 5.7 | 4.3 | 4.7 | 2.9 | 3.8 | 7.3 | 5.0 |
| Labourers | 5.6 | 5.5 | 3.8 | 4.6 | 4.9 | 5.6 | 3.5 | 4.5 | 3.6 | 4.2 | 3.6 | 4.4 | 3.9 |
| Farm, forestry and garden workers | 15.8 | 20.6 | 13.2 | 10.8 | 13.8 | 31.4 | 11.1 | 18.3 | 13.7 | 14.7 | 11.0 | 20.0 | 17.2 |
| Construction and mining labourers | 17.8 | 7.0 | 8.4 | 9.5 | 7.8 | 9.0 | 6.8 | 7.0 | 7.1 | 8.8 | 5.2 | 5.7 | 5.7 |
| Professionals | 1.0 | 0.8 | 1.2 | 1.2 | 1.1 | 0.9 | 0.9 | 1.0 | 1.0 | 0.9 | 0.5 | 0.4 | 0.4 |
| Design, engineering, science and transport professionals | 6.9 | 4.6 | 6.5 | 5.6 | 3.9 | 4.7 | 3.8 | 3.6 | 5.0 | 3.9 | 2.3 | 2.4 | 1.3 |
| Managers | 3.5 | 4.1 | 4.0 | 3.3 | 2.8 | 2.5 | 3.1 | 2.3 | 2.8 | 2.6 | 2.2 | 1.3 | 2.1 |
| Farmers and farm managers | 15.7 | 18.1 | 17.7 | 14.1 | 13.7 | 12.3 | 15.9 | 13.6 | 20.2 | 14.8 | 17.2 | 9.1 | 13.8 |
| Technicians and trades workers | 2.2 | 3.4 | 2.9 | 3.5 | 3.5 | 2.8 | 2.3 | 2.5 | 2.6 | 1.6 | 1.7 | 1.7 | 1.6 |
| Construction trades workers | 3.3 | 4.1 | 1.8 | 4.4 | 5.0 | 2.9 | 3.7 | 3.3 | 2.1 | 3.2 | 0.8 | 2.8 | 2.7 |
| Automotive and engineering trades workers | 3.0 | 4.4 | 3.8 | 3.4 | 3.7 | 4.4 | 2.8 | 2.8 | 3.1 | 1.1 | 3.0 | 1.9 | 1.8 |
| Electrotechnology and telecommunications trades workers | 4.6 | 6.2 | 7.0 | 5.6 | 6.1 | 4.2 | 2.8 | 3.4 | 6.4 | 2.6 | 4.0 | 3.0 | 2.9 |
| Community and personal service workers | 1.4 | 2.0 | 1.4 | 1.6 | 1.1 | 0.9 | 1.4 | 0.8 | 0.9 | 0.8 | 1.2 | 1.0 | 0.7 |
| Protective service workers | 5.9 | 5.2 | 6.5 | 5.7 | 4.1 | 2.4 | 6.1 | 3.1 | 2.2 | 5.1 | 2.7 | 2.0 | .. |
| Sales workers | 0.7 | 0.4 | 0.5 | 0.7 | 1.0 | 0.7 | 0.4 | 0.5 | 0.1 | 0.3 | 0.6 | 0.2 | 0.2 |
| Clerical and administrative workers | 0.3 | 0.1 | 0.4 | 0.1 | 0.3 | 0.5 | 0.3 | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 | 0.1 |
| Total | 2.7 | 3.0 | 2.6 | 2.8 | 3.0 | 2.6 | 2.4 | 2.1 | 2.0 | 2.0 | 1.7 | 1.7 | 1.6 |

Note: Movements in fatality rates in occupations with 5 or fewer fatalities each year should be viewed with caution.