



SHIFT Accident Statistics

2015 Reporting Year

Headline News 2015

| <i>SHIFT Member data reported to CMF</i> | 2015 | 2014 | 2013 | 2012 | 2011 | 2010 |
|--|-----------------|-------------|-------------|-------------|-------------|-------------|
| Number of companies reporting (total) so far is | 78 | 76 | 72 | 64 | 33 | 36 |
| Giving a total number of employees covered as | 11222 | 9947 | 9595 | 8776 | 4387 | 4117 |
| Total Number of Accidents Reported to SHIFT is | 2318 | 2376 | 2238 | 2270 | 1367 | 1323 |
| Of which are RIDDOR reportable being | 124 | 128 | 171 | 169 | 85 | 94 |
| Giving an accident rate per 100 employees of | 21 | 24 | 23 | 26 | 31 | 32 |
| and a RIDDOR rate per 100,000 employees of | 1105 | 1287 | 1782 | 1926 | 1938 | 2283 |
| Number of ferrous companies reporting so far is | 41 | 40 | 42 | 38 | | |
| Number of non ferrous companies reporting so far is | 37 | 36 | 30 | 26 | | |
| Number of small companies reporting data is | 23 | 27 | 24 | 21 | | |
| Number of medium companies reporting data is | 34 | 28 | 28 | 25 | | |
| Number of large companies reporting data is | 21 | 21 | 20 | 18 | | |
| Number of sand casting foundries reporting data is | 53 | 52 | 51 | 47 | | |
| Number of die casting foundries reporting data is | 18 | 18 | 15 | 13 | | |
| Number of investment casting foundries reporting data is | 7 | 6 | 6 | 4 | | |
| Number of near-misses reported so far is | 822 | 744 | 293 | 490 | | |
| Number of members reporting near-misses is | 30 | 29 | 24 | 18 | | |
| Number of lost days due to work related injury reported so far is | 3094.75 | 3487 | 4342 | 2894 | | |
| Number of members reporting work related injury lost days is | 69 | 60 | 52 | 33 | | |
| Number of lost days due to work related ill-health reported so far is | 55 | 42 | 518.8 | 219.5 | | |
| Number of members reporting work related ill-health lost days is | 7 | 6 | 6 | 3 | | |
| Number of lost days due to non-work work related injury or ill-health reported so far is | 15974.75 | 15124 | 14593 | 13272 | | |
| Number of members reporting lost days is | 38 | 41 | 30 | 23 | | |
| Number of new reportees to SHIFT is | 3 | 10 | 11 | 23 | | |
| Number of returning reportees to SHIFT is | | 2 | 4 | 10 | | |

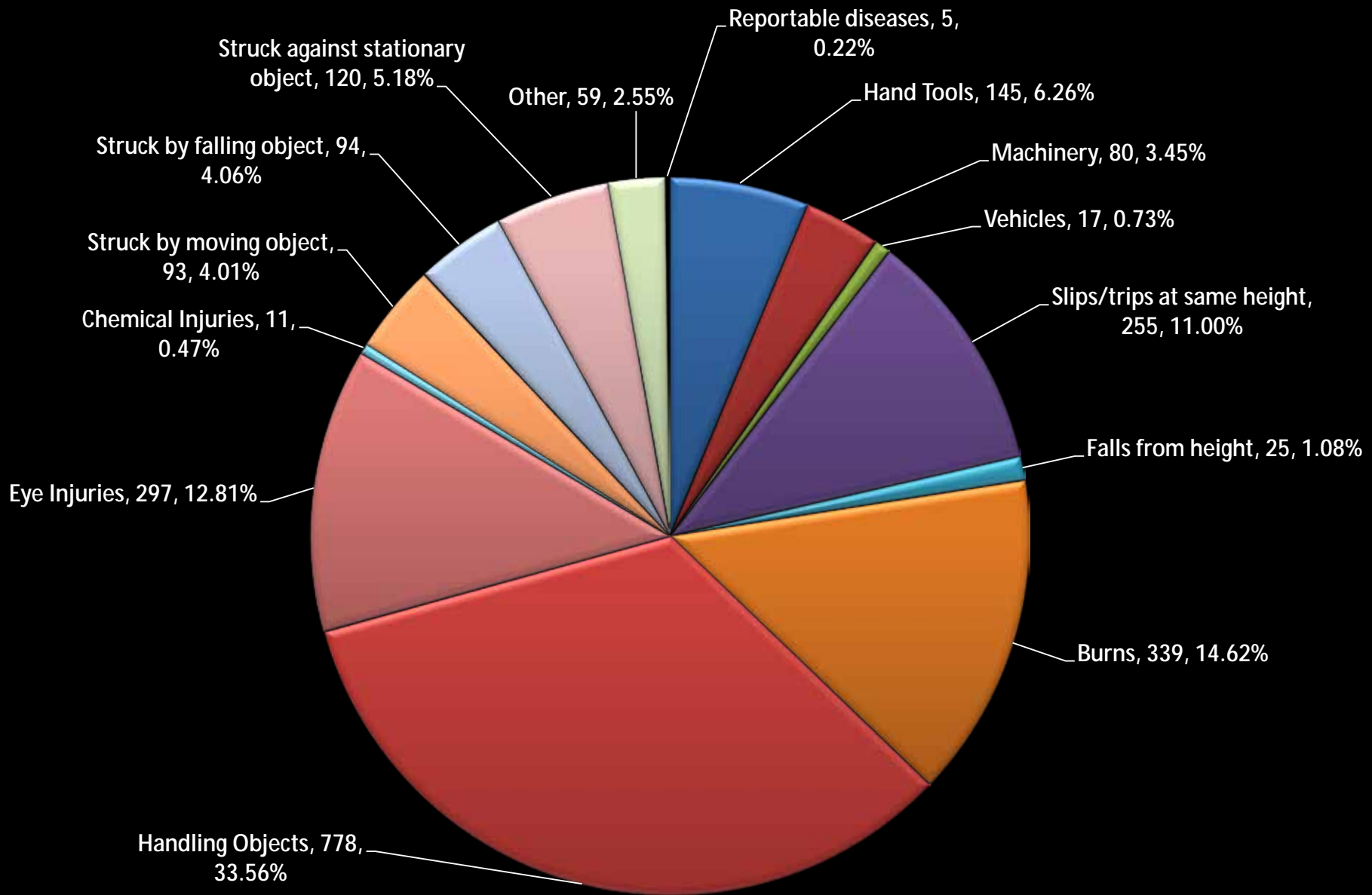
Reporting History (Last 4 years)

| Date | Reporting Year | Number of Companies | Employees Covered |
|--|----------------|---|-------------------|
| Oct 2013 | 2012 | 64 (includes 23 new and 10 returning entrants) | 8776 |
| April 2014 (reporting window reset to close end of March each following year) | 2013 | 72 (includes 11 new and 4 returning entrants) | 9595 |
| April 2015 | 2014 | 76 (includes 10 new and 2 returning entrants) | 9947 |
| April 2016 | 2015 | 78 (includes 3 new entrants) | 11222 |

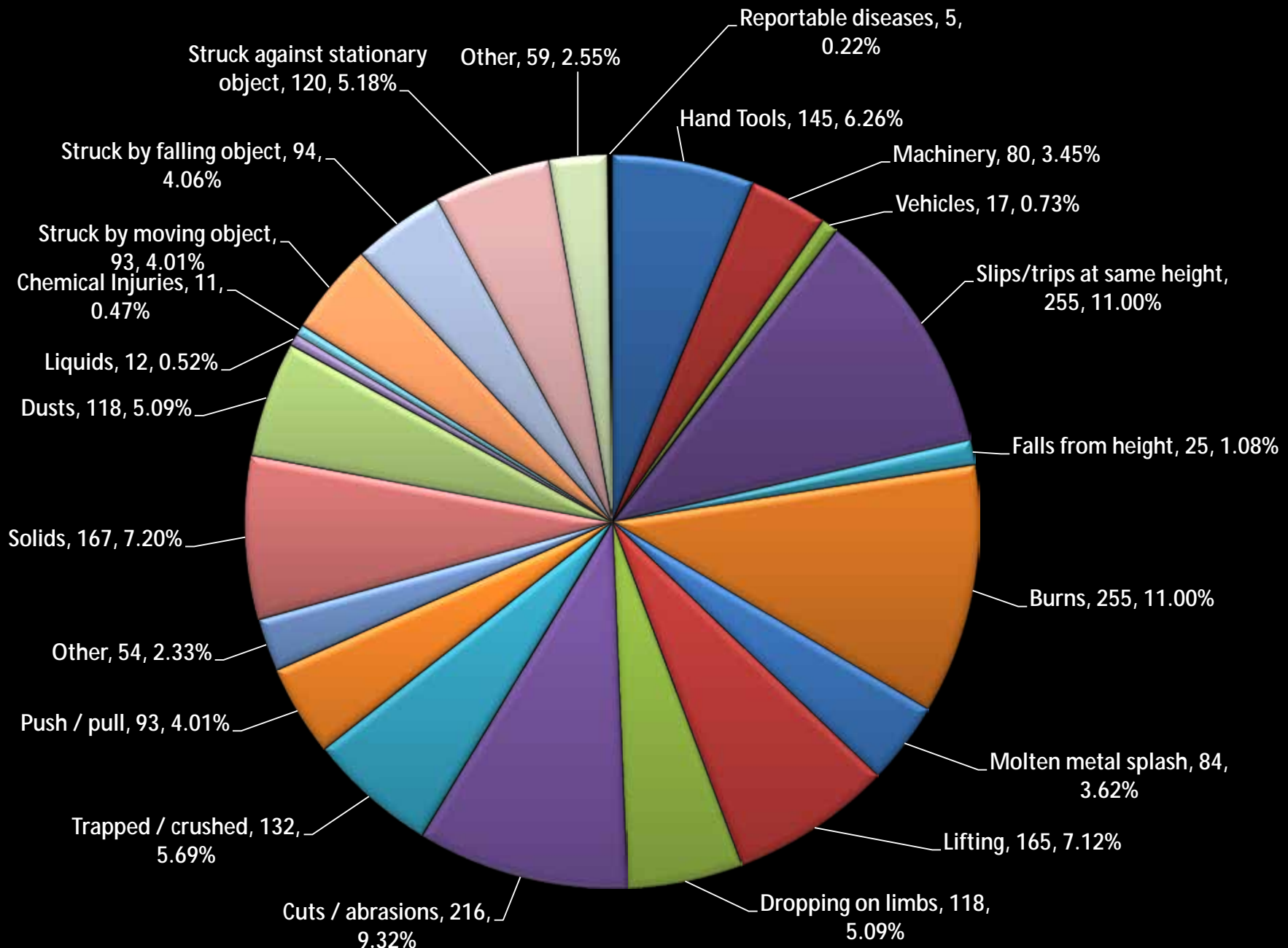
Phase II Reporting History (2012 on)

| Key Headline Data | 2015 | Change against 2014 | 2014 | 2013 | 2012 |
|-------------------------------|-------|---------------------|------|--|------|
| Companies reporting | 78 | + 2 | 76 | 72 | 64 |
| Employees covered | 11222 | + 1275 | 9947 | 9595 | 8776 |
| Fatal Injuries | 0 | 0 | 0 | 0 | 0 |
| Major Injuries | 13 | - 5 | 18 | 17 | 30 |
| Over 7 Day injuries | 111 | + 1 | 110 | 116 | |
| Other accidents | 2014 | - 234 | 2248 | 2067 | 2101 |
| Total | 2138 | - 238 | 2376 | 2238 | 2270 |
| Accident rate / 100 employees | 19 | - 5 | 24 | 23 | 26 |
| RIDDOR rate / 100K employees | 1105 | - 182 | 1287 | 1386 (adjusted to remove >3 day injuries) | 1926 |

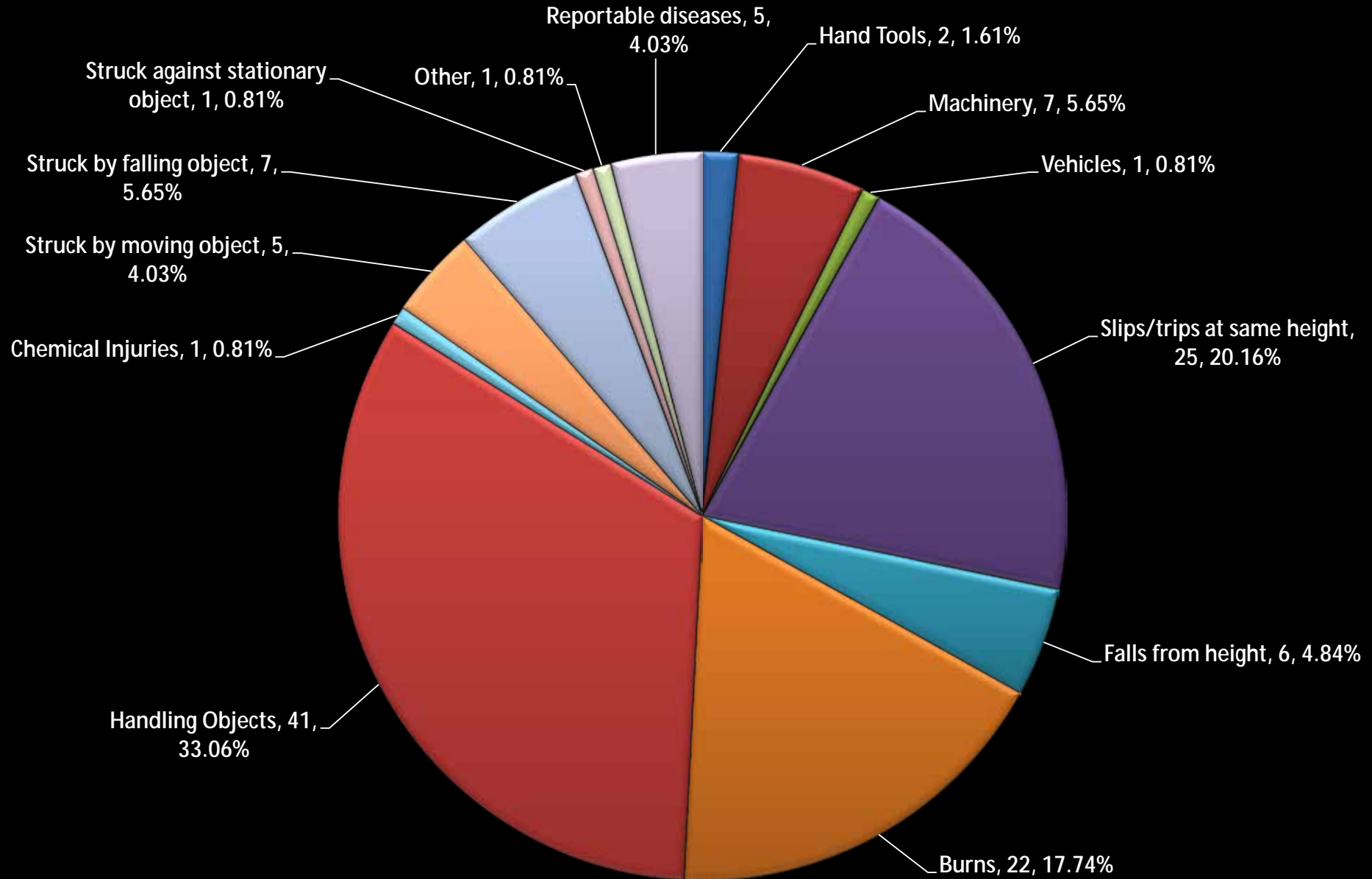
2015 Total Accident Breakdown - Macro Level



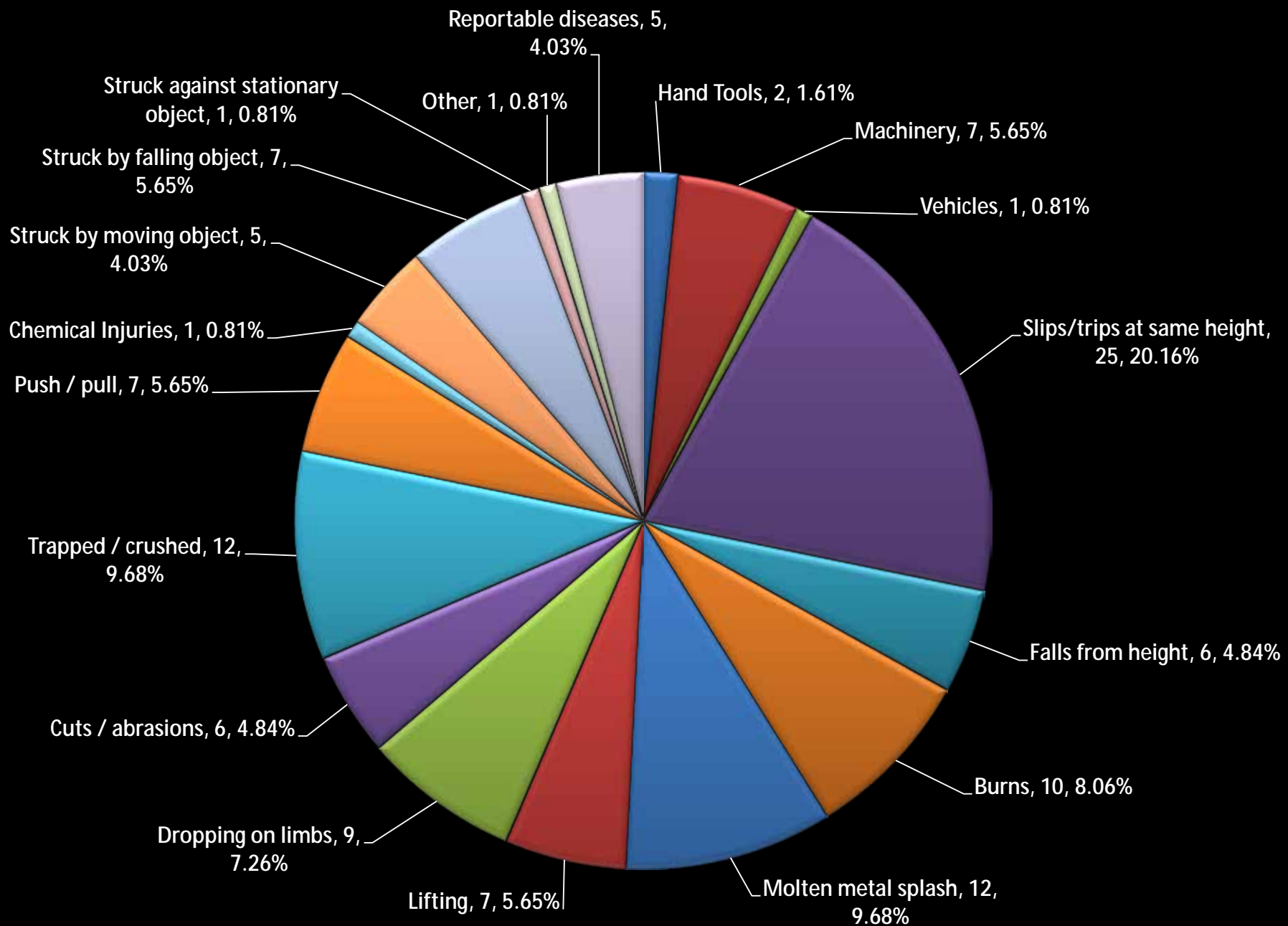
2015 Total Accident Breakdown - Micro Level



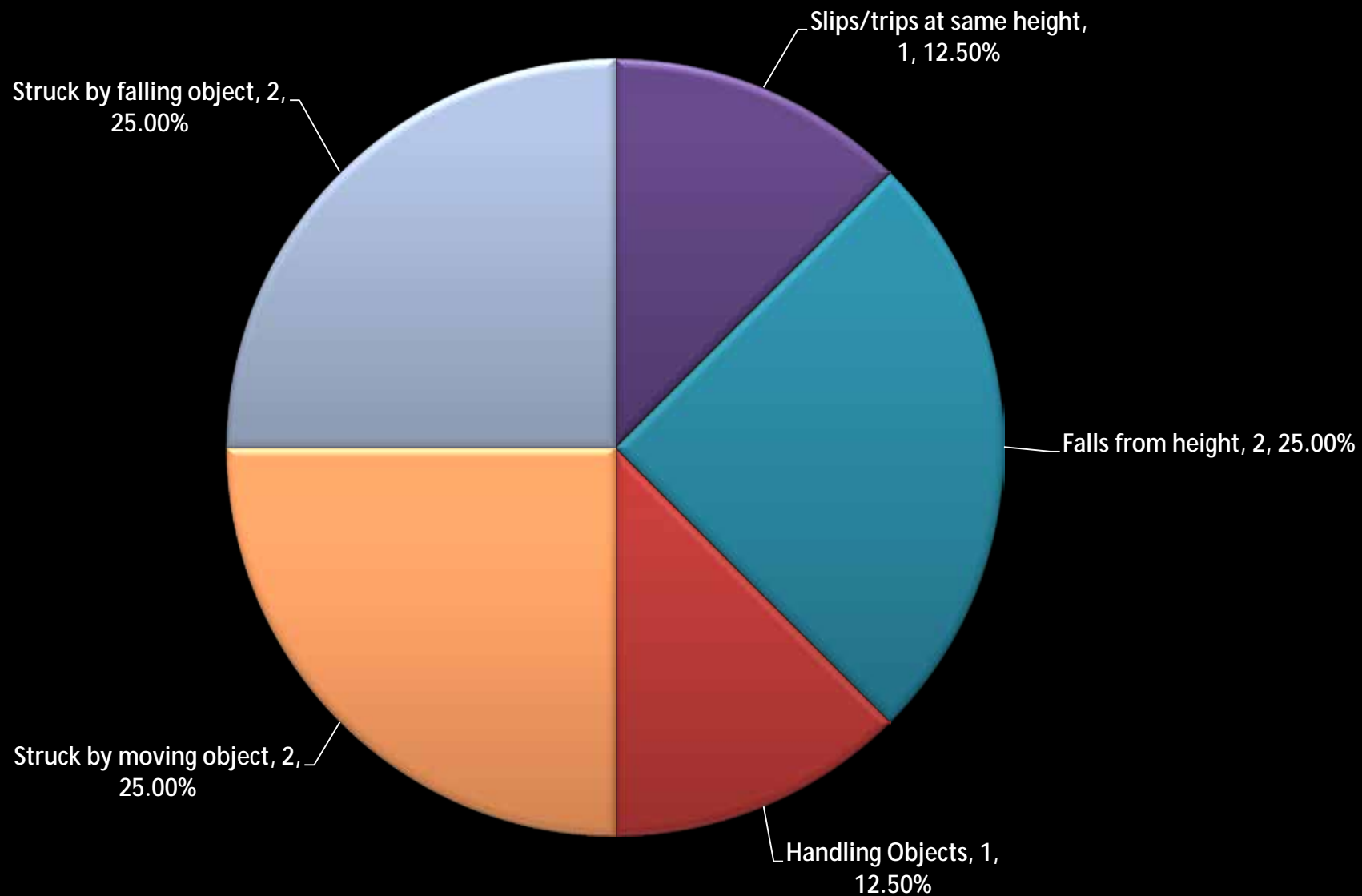
2015 Total RIDDOR Reportable Accidents - Macro Level



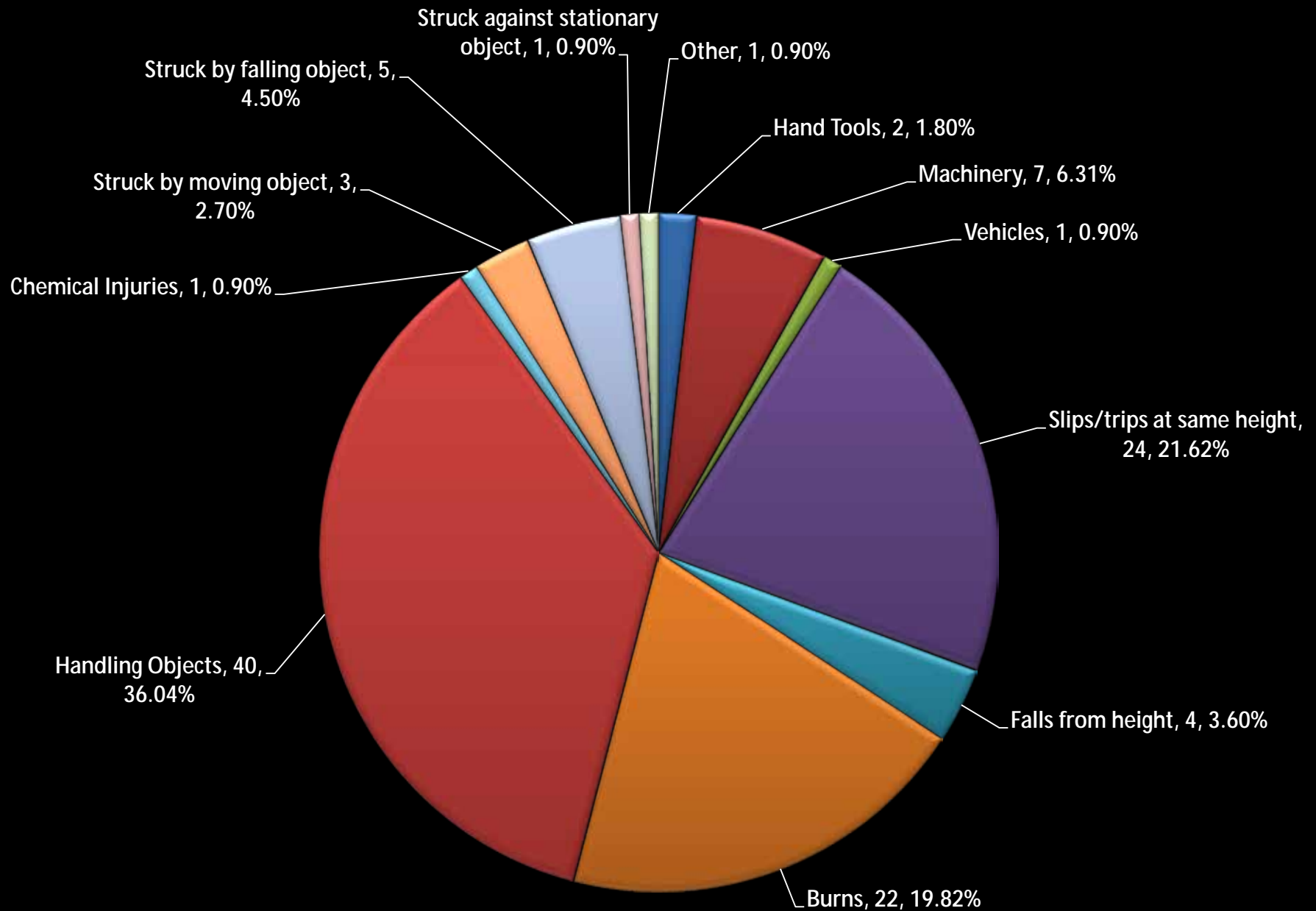
2015 Total RIDDOR Reportable Accidents - Micro Level



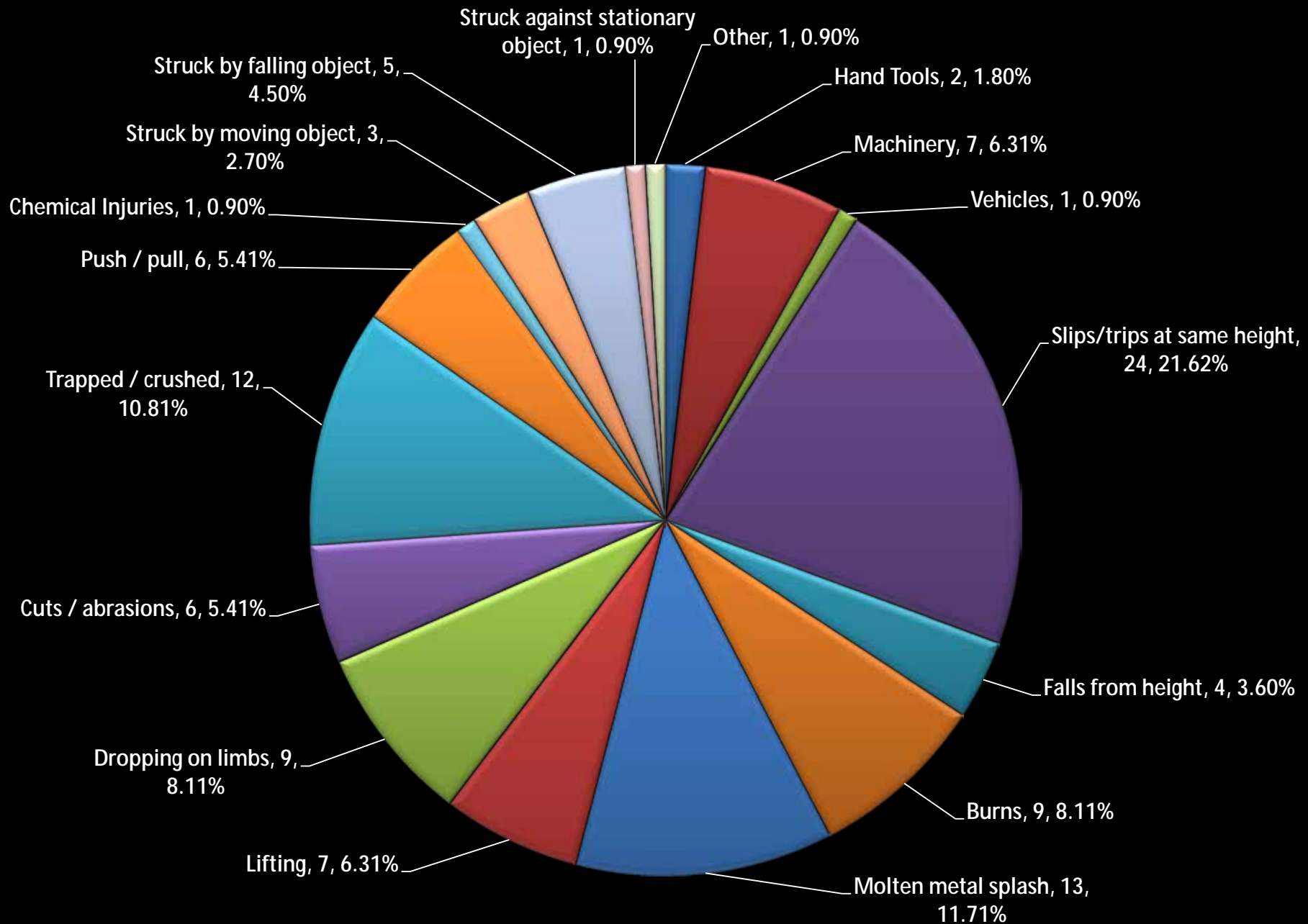
2015 Major Reportable Accidents - Macro Level



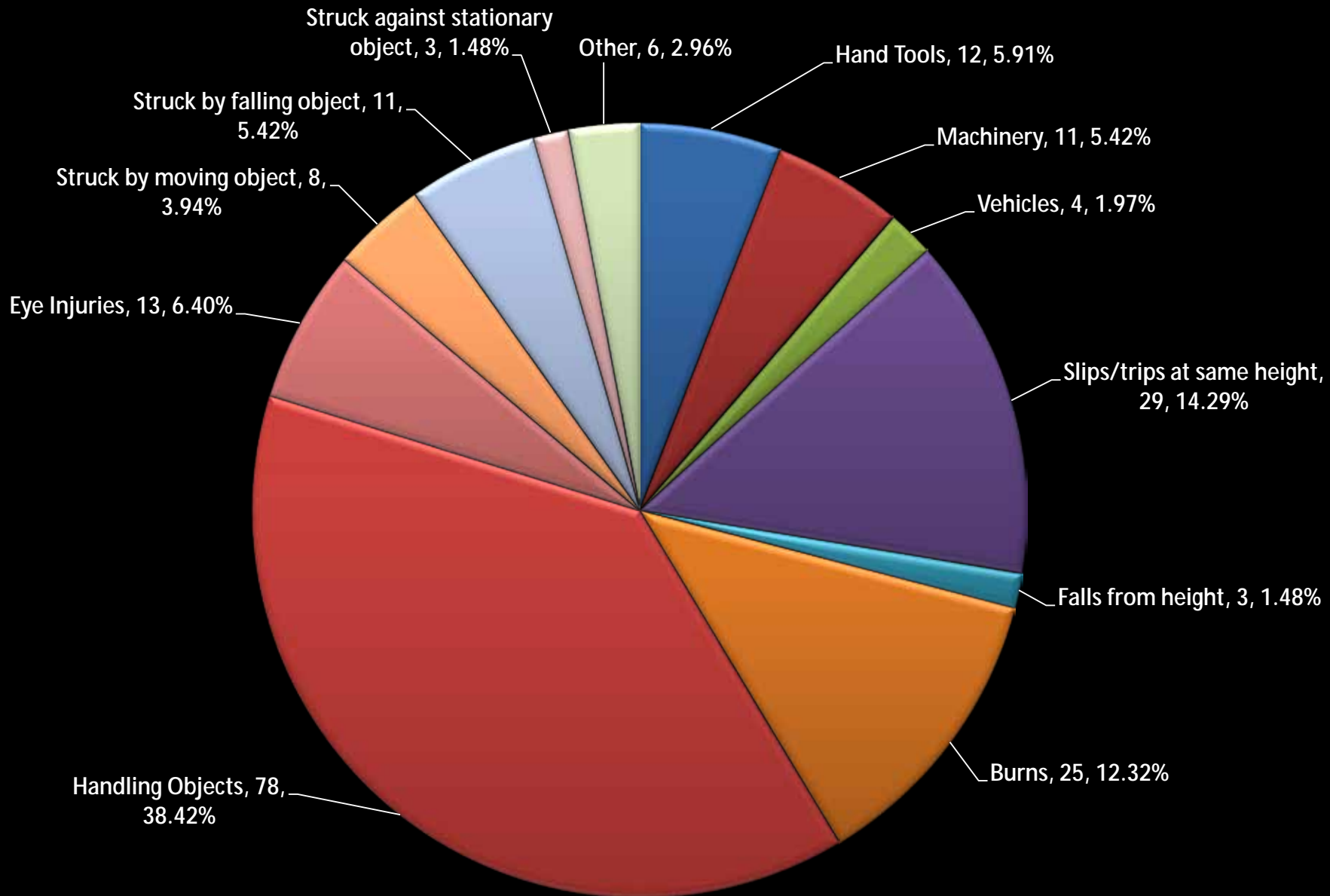
2015 Over 7 Day Reportable Accidents - Macro Level



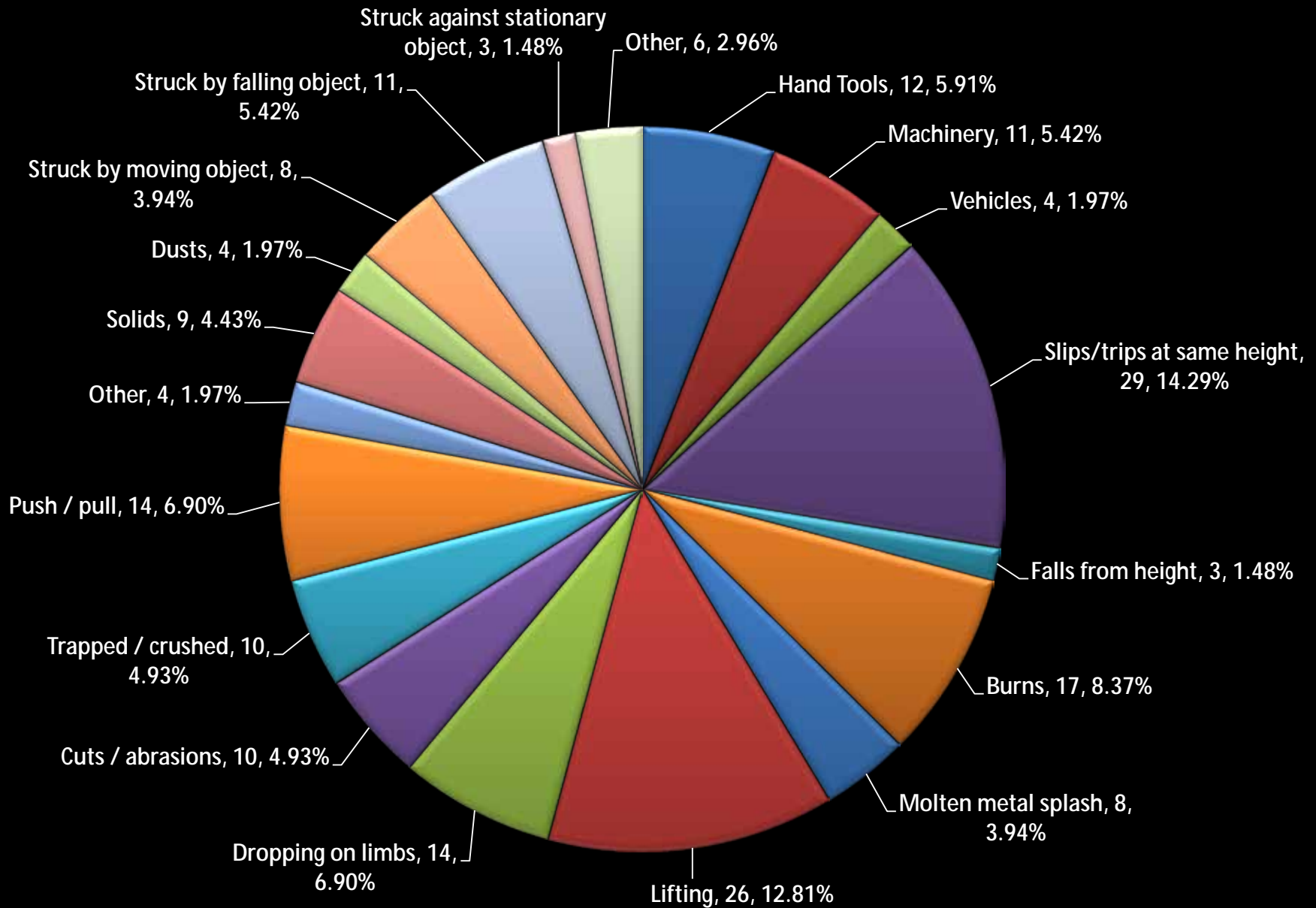
2015 Over 7 Day Reportable Accidents - Micro Level



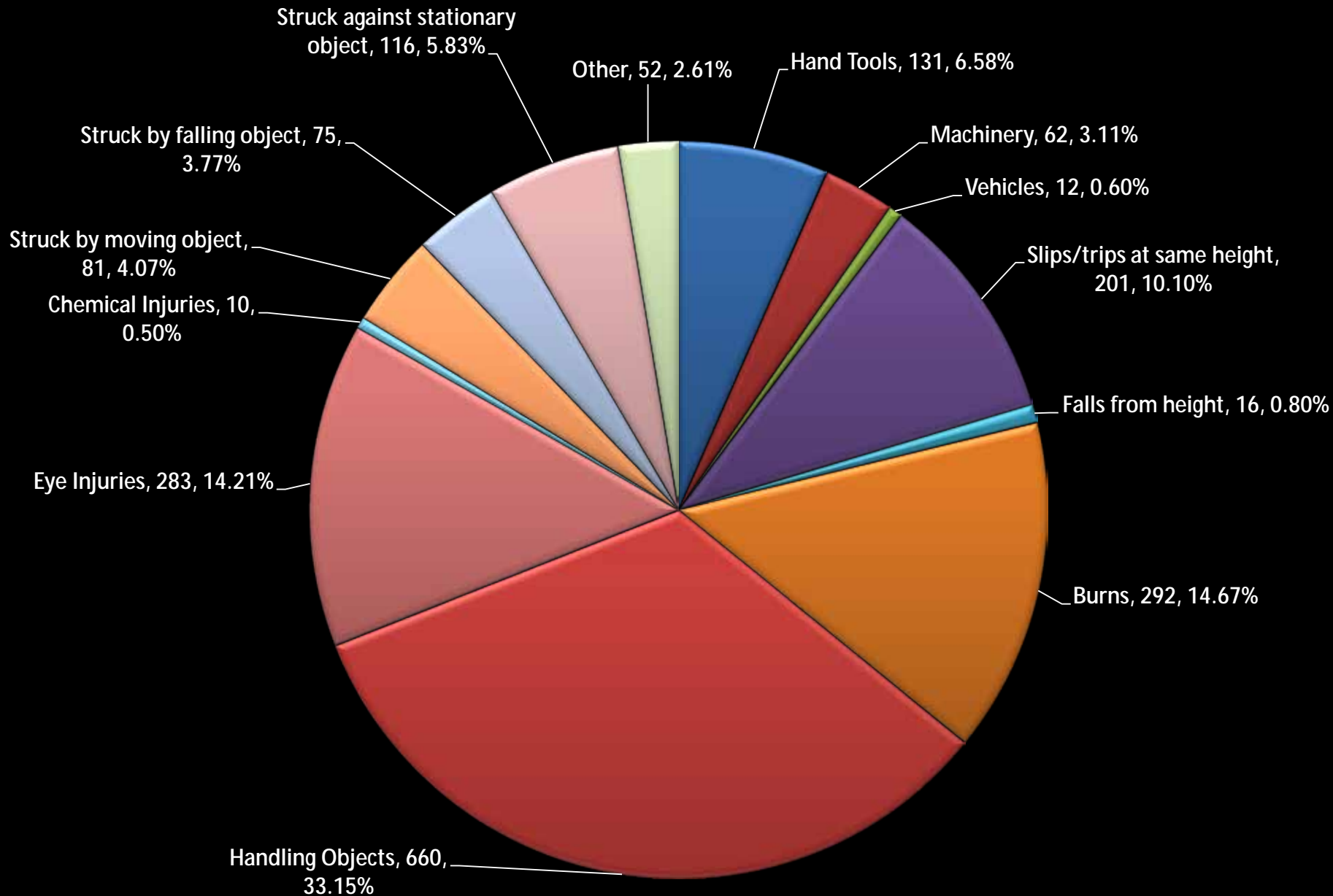
2015 Lost Time Accidents - Macro Level



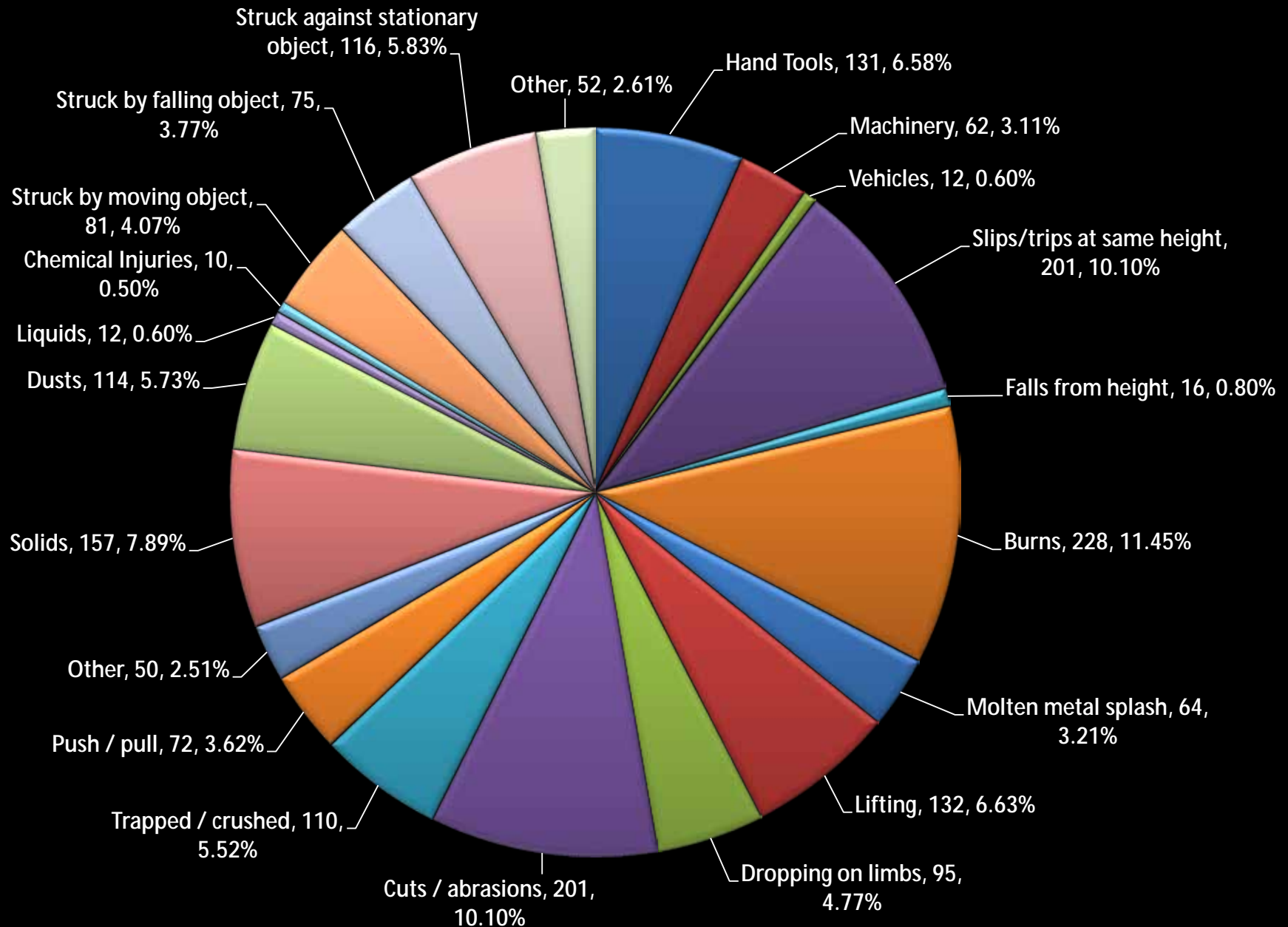
2015 Lost Time Accidents - Micro Level



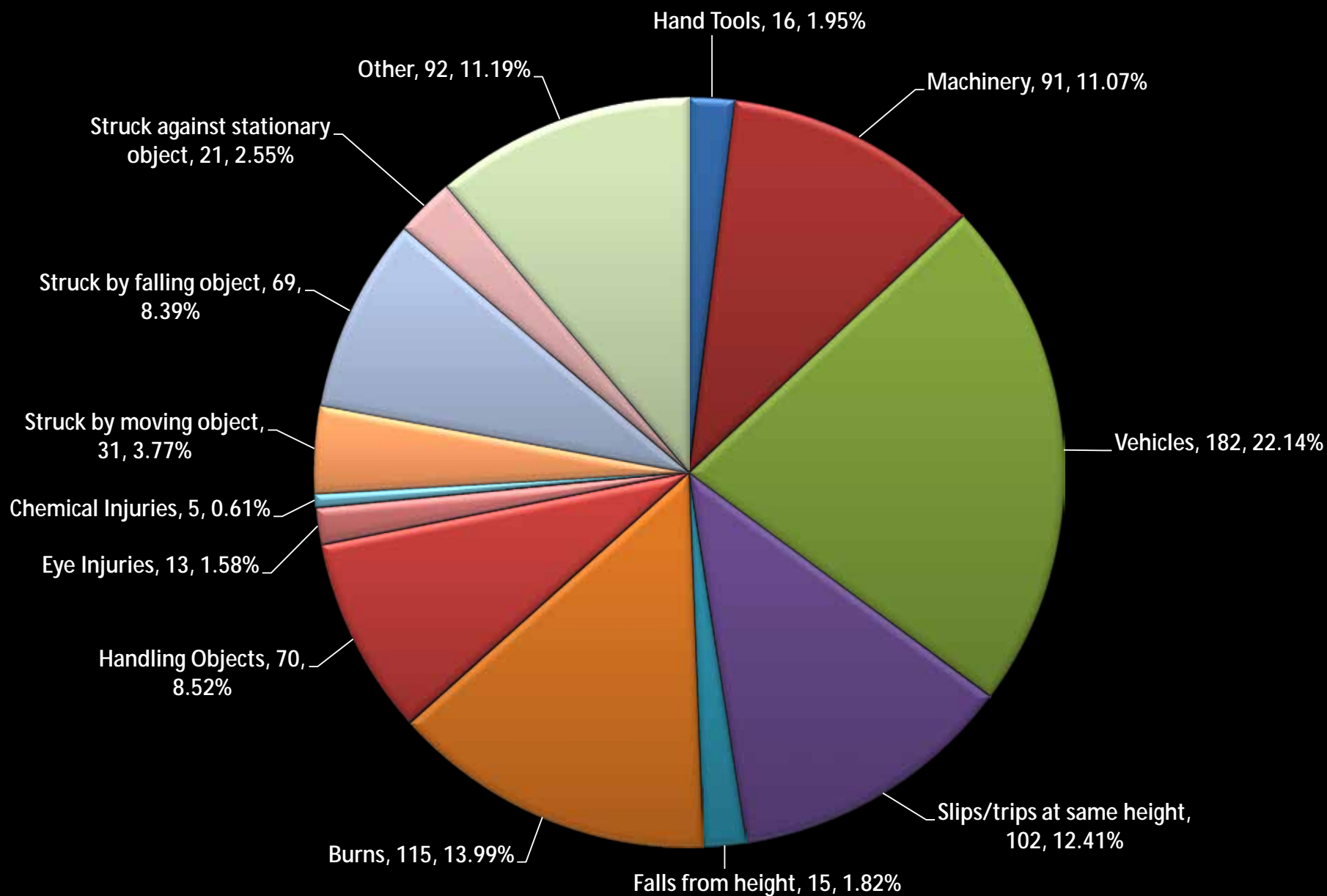
2015 First Aid Only Accidents - Macro Level



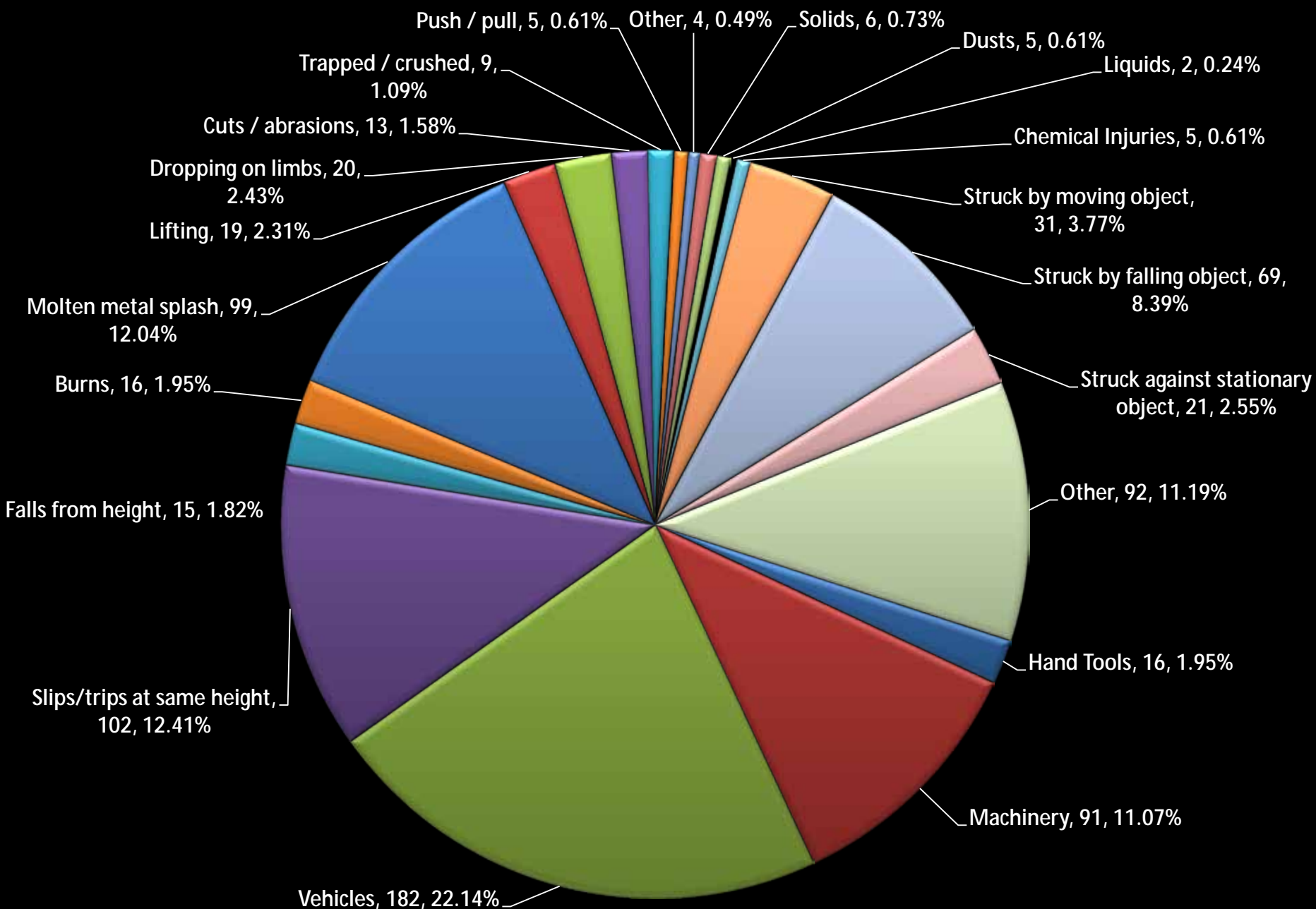
2015 First Aid Only Accidents - Micro Level



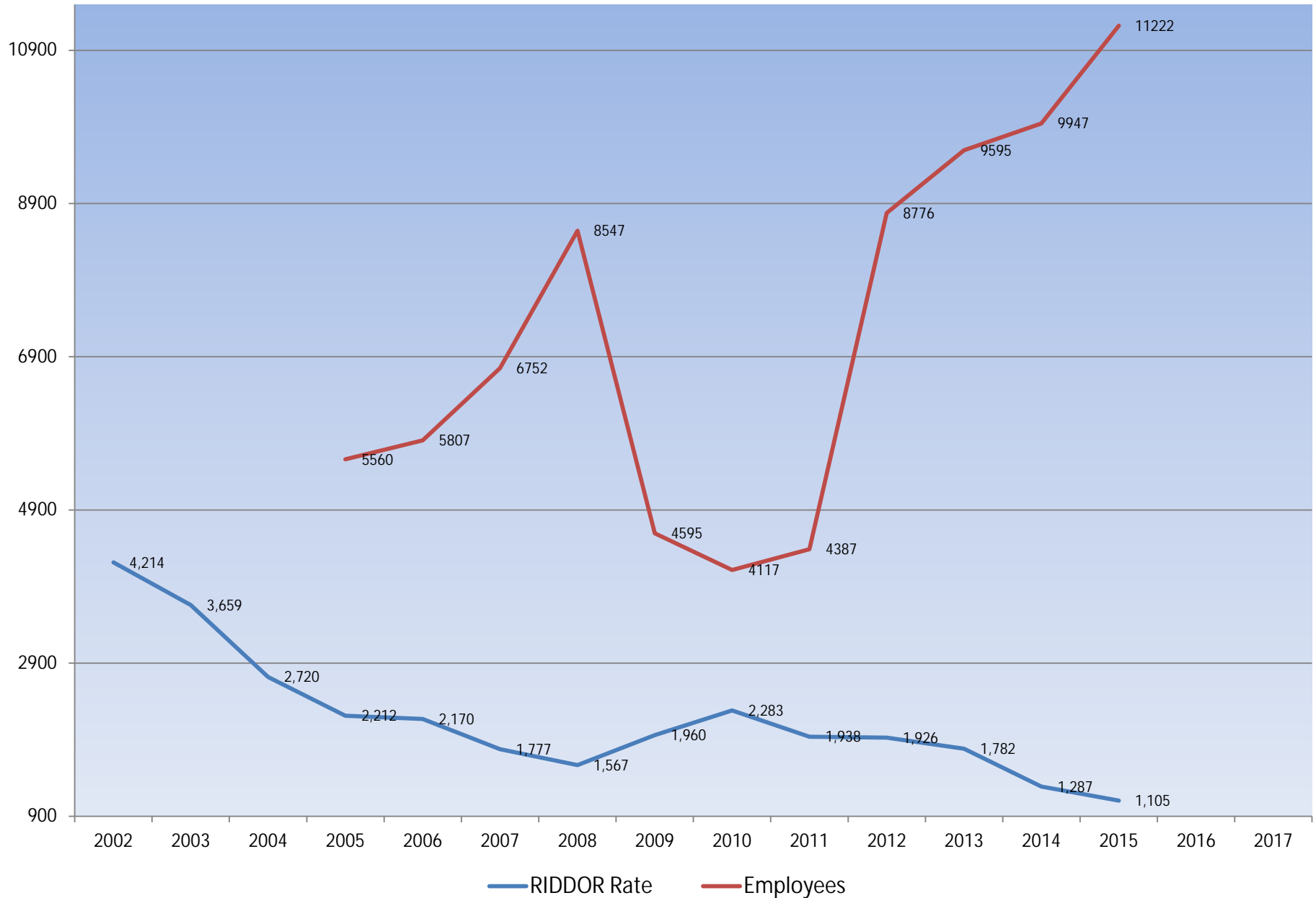
2015 Near Misses Reported - Macro Level



2015 Near Misses Reported - Micro Level



SHIFT RIDDOR Rates 2002 - date



RIDDOR - Target Rates vs Actual Achievement

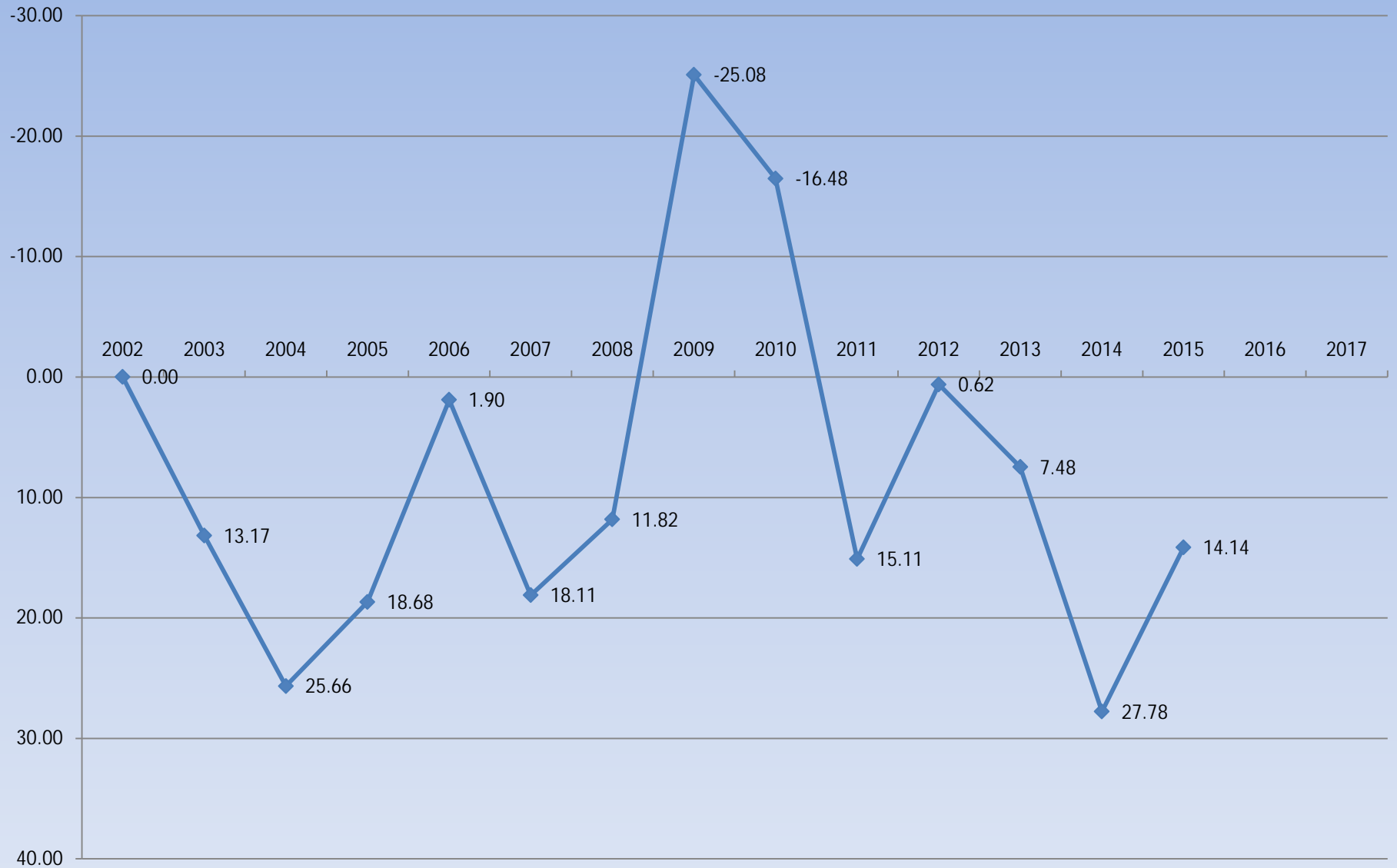
(Dec 2013 RIDDOR Change Compensated)



% Reduction in Rate to 2002 Year



Year on Year Percentage Change



New / Returning Reports 2015

| Category | Number | Employees | Material | Process | Size of Company |
|--------------|--------|-----------|----------------------------|----------------------|---------------------|
| New | 3 | 1346 | 1 Ferrous 2 Non-ferrous | 2 Sand 1 Die-cast | 2 Large 1 Medium |
| Returnees | - | | | | |
| Restructured | - | | | | |

| Category | Number | Employees | | | | |
|--------------|--------|-----------|-----------|--------------|--------|---------------|
| | | | Accidents | Rate/100 emp | RIDDOR | Rate/100K emp |
| New | 3 | 1346 | 133 | 9.88 | 3 | 222.88 |
| Returning | - | | | | | |
| Restructured | - | | | | | |

Process Comparisons – Ferrous vs Non-Ferrous

| | Ferrous (41) | | Non-Ferrous (37) | |
|----------------------------------|-------------------|----------------------|-------------------|---------------------|
| Employees | 5978 | | 5244 | |
| | Total Accidents | RIDDOR | Total Accidents | RIDDOR |
| Hand Tools | 82 | 2 | 63 | - |
| Machinery | 46 | 1 | 34 | 6 |
| Vehicles | 7 | 1 | 10 | - |
| Slips / Trips | 139 | 18 | 116 | 7 |
| Falls from Height | 13 | 4 | 12 | 2 |
| Burns | 180 | 14 | 159 | 8 |
| Manual Handling | 384 | 28 | 394 | 13 |
| Eye Injuries | 215 | - | 82 | - |
| Chemical Injuries | 8 | 1 | 3 | - |
| Struck by Moving Object | 54 | 3 | 39 | 2 |
| Struck by Falling Object | 55 | 6 | 39 | 1 |
| Struck against Stationary Object | 68 | 1 | 52 | - |
| Other | 46 | - | 13 | 1 |
| Reportable Diseases | 4 | 4 | 1 | 1 |
| TOTAL | 1301 | 83 | 1017 | 41 |
| Rate | 21.76 / 100 emp's | 1388.42 / 100K emp's | 19.39 / 100 emp's | 781.85 / 100K emp's |

Location & number of **total** accidents - Ferrous vs Non-ferrous

| Locale | No. of acc's | % of total | Foundries with accidents in this area | No. of acc's | % of total | Foundries with accidents in this area |
|--|-------------------|------------|---------------------------------------|-----------------------|------------|---------------------------------------|
| | Ferrous foundries | | | Non-ferrous foundries | | |
| Melting, moulding, casting | 425 | 32.67 | 38 | 462 | 45.43 | 32 |
| Knockout, fettling, basic finishing | 544 | 41.81 | 38 | 204 | 20.06 | 29 |
| Machine shop | 109 | 8.38 | 19 | 99 | 9.73 | 22 |
| Tool room or maintenance areas | 47 | 3.61 | 21 | 59 | 5.80 | 19 |
| Finished stores, despatch & yard areas | 54 | 4.15 | 27 | 61 | 6.00 | 21 |
| Other Areas / Dept.'s | 122 | 9.38 | 28 | 132 | 12.98 | 19 |

Location & number of **RIDDOR** accidents - Ferrous vs Non-ferrous

| Locale | No. of acc's | % of total | Foundries with accidents in this area | No. of acc's | % of total | Foundries with accidents in this area |
|--|-------------------|------------|---------------------------------------|-----------------------|------------|---------------------------------------|
| | Ferrous foundries | | | Non-ferrous foundries | | |
| Melting, moulding, casting | 36 | 43.37 | 15 | 21 | 51.22 | 14 |
| Knockout, fettling, basic finishing | 32 | 38.55 | 18 | 7 | 17.07 | 7 |
| Machine shop | 7 | 8.43 | 2 | 6 | 14.63 | 5 |
| Tool room or maintenance areas | 1 | 1.20 | 1 | 4 | 9.76 | 4 |
| Finished stores, despatch & yard areas | 1 | 1.20 | 1 | 1 | 2.44 | 1 |
| Other Areas / Dept.'s | 6 | 7.23 | 4 | 2 | 4.88 | 2 |

Process Comparisons – Sand vs Die-cast vs Investment

| | Sand (53) | | Die-cast (18) | | Investment (7) | |
|----------------------------------|-----------------|----------------|-----------------|---------------|-----------------|---------------|
| Employees | 7514 | | 2541 | | 1167 | |
| | Total Accidents | RIDDOR | Total Accidents | RIDDOR | Total Accidents | RIDDOR |
| Hand Tools | 100 | 2 | 36 | - | 9 | - |
| Machinery | 58 | 4 | 15 | 3 | 7 | - |
| Vehicles | 7 | 1 | 7 | - | 3 | - |
| Slips / Trips | 176 | 23 | 66 | 2 | 13 | - |
| Falls from Height | 14 | 5 | 10 | 1 | 1 | - |
| Burns | 211 | 15 | 111 | 6 | 17 | 1 |
| Manual Handling | 488 | 31 | 227 | 8 | 63 | 2 |
| Eye Injuries | 247 | - | 41 | - | 9 | - |
| Chemical Injuries | 10 | 1 | 1 | - | - | - |
| Struck by Moving Object | 71 | 3 | 20 | 2 | 2 | - |
| Struck by Falling Object | 74 | 7 | 16 | - | 4 | - |
| Struck against Stationary Object | 93 | 1 | 21 | - | 6 | - |
| Other | 50 | - | 8 | 1 | 1 | - |
| Reportable Disease | 5 | 5 | - | - | - | - |
| TOTAL | 1604 | 98 | 579 | 23 | 135 | 3 |
| Rate | 21.35 / 100 | 1304.23 / 100K | 22.29 / 100 | 905.15 / 100K | 11.57 / 100 | 257.06 / 100K |

Location & number of **total** accidents – Sand vs Die vs Investment

| Locale | No. of acc's | % of total | Foundries with accidents in area | No. of acc's | % of total | Foundries with accidents in area | No. of acc's | % of total | Foundries with accidents in area |
|--|----------------|------------|----------------------------------|--------------------|------------|----------------------------------|----------------------|------------|----------------------------------|
| | Sand Foundries | | | Die-cast Foundries | | | Investment Foundries | | |
| Melting, moulding, casting | 548 | 34.16 | 49 | 302 | 52.16 | 16 | 37 | 27.41 | 5 |
| Knockout, fettling, basic finishing | 630 | 39.28 | 48 | 86 | 14.85 | 13 | 32 | 23.70 | 6 |
| Machine shop | 139 | 8.67 | 27 | 62 | 10.71 | 12 | 7 | 5.19 | 2 |
| Tool room or maint. areas | 60 | 3.74 | 26 | 40 | 6.91 | 11 | 6 | 4.44 | 3 |
| Finished stores, despatch & yard areas | 75 | 4.68 | 34 | 35 | 6.04 | 10 | 5 | 3.70 | 4 |
| Other Areas / Dept.'s | 152 | 9.48 | 35 | 54 | 9.33 | 8 | 48 | 35.56 | 4 |

Location & number of **RIDDOR** accidents – Sand vs Die vs Investment

| Locale | No. of acc's | % of total | Foundries with accidents in area | No. of acc's | % of total | Foundries with accidents in area | No. of acc's | % of total | Foundries with accidents in area |
|--|----------------|------------|----------------------------------|--------------------|------------|----------------------------------|----------------------|------------|----------------------------------|
| | Sand Foundries | | | Die-cast Foundries | | | Investment Foundries | | |
| Melting, moulding, casting | 44 | 44.90 | 18 | 11 | 47.83 | 9 | 2 | 66.67 | 2 |
| Knockout, fettling, basic finishing | 35 | 35.71 | 21 | 3 | 13.04 | 3 | 1 | 33.33 | 1 |
| Machine shop | 7 | 7.14 | 2 | 6 | 26.09 | 5 | - | - | - |
| Tool room or maint. areas | 2 | 2.04 | 2 | 3 | 13.04 | 3 | - | - | - |
| Finished stores, despatch & yard areas | 2 | 2.04 | 2 | - | - | - | - | - | - |
| Other Areas / Dept.'s | 8 | 8.16 | 6 | - | - | - | - | - | - |

Process Comparisons – Company Size

| | Large (21) | | Medium (34) | | Small (23) | |
|----------------------------------|-----------------|---------------|-----------------|----------------|-----------------|----------------|
| Employees | 7264 | | 3195 | | 763 | |
| | Total Accidents | RIDDOR | Total Accidents | RIDDOR | Total Accidents | RIDDOR |
| Hand Tools | 94 | 1 | 32 | 1 | 19 | - |
| Machinery | 45 | 2 | 28 | 5 | 7 | - |
| Vehicles | 10 | 1 | 7 | - | - | - |
| Slips / Trips | 176 | 21 | 57 | 3 | 22 | 1 |
| Falls from Height | 17 | 5 | 7 | 1 | 1 | - |
| Burns | 190 | 10 | 101 | 2 | 48 | 9 |
| Manual Handling | 416 | 20 | 238 | 15 | 124 | 6 |
| Eye Injuries | 187 | - | 88 | - | 22 | - |
| Chemical Injuries | 6 | 1 | 1 | - | 4 | - |
| Struck by Moving Object | 69 | 3 | 18 | 2 | 6 | - |
| Struck by Falling Object | 67 | 5 | 18 | 2 | 9 | - |
| Struck against Stationary Object | 85 | 1 | 26 | - | 9 | - |
| Other | 48 | - | 8 | - | 3 | 1 |
| Reportable Disease | 2 | 2 | 2 | 2 | 1 | 1 |
| TOTAL | 1412 | 72 | 631 | 34 | 275 | 18 |
| Rate | 19.44 / 100 | 991.19 / 100K | 19.75 / 100 | 1064.16 / 100K | 36.04 / 100 | 2359.11 / 100K |

Location & number of **total** accidents – By Company Size

| Locale | No. of acc's | % of total | Foundries with accidents in area | No. of acc's | % of total | Foundries with accidents in area | No. of acc's | % of total | Foundries with accidents in area |
|--|-----------------|------------|----------------------------------|------------------|------------|----------------------------------|-----------------|------------|----------------------------------|
| | Large Foundries | | | Medium Foundries | | | Small Foundries | | |
| Melting, moulding, casting | 504 | 35.69 | 20 | 242 | 38.35 | 31 | 141 | 51.27 | 19 |
| Knockout, fettling, basic finishing | 463 | 32.79 | 20 | 219 | 34.71 | 30 | 66 | 24.00 | 17 |
| Machine shop | 142 | 10.06 | 17 | 49 | 7.77 | 13 | 17 | 6.18 | 11 |
| Tool room or maint. areas | 62 | 4.39 | 15 | 32 | 5.07 | 17 | 12 | 4.36 | 8 |
| Finished stores, despatch & yard areas | 51 | 3.61 | 13 | 40 | 6.34 | 21 | 24 | 8.73 | 14 |
| Other Areas / Dept.'s | 190 | 13.46 | 19 | 49 | 7.77 | 21 | 15 | 5.45 | 7 |

Location & number of **RIDDOR** accidents – By Company Size

| Locale | No. of acc's | % of total | Foundries with accidents in area | No. of acc's | % of total | Foundries with accidents in area | No. of acc's | % of total | Foundries with accidents in area |
|--|-----------------|------------|----------------------------------|------------------|------------|----------------------------------|-----------------|------------|----------------------------------|
| | Large Foundries | | | Medium Foundries | | | Small Foundries | | |
| Melting, moulding, casting | 38 | 52.78 | 14 | 9 | 26.47 | 9 | 10 | 55.56 | 6 |
| Knockout, fettling, basic finishing | 16 | 22.22 | 9 | 19 | 55.88 | 12 | 4 | 22.22 | 4 |
| Machine shop | 9 | 12.50 | 3 | 1 | 2.94 | 1 | 3 | 16.67 | 3 |
| Tool room or maint. areas | 2 | 2.78 | 2 | 3 | 8.82 | 3 | - | - | - |
| Finished stores, despatch & yard areas | 1 | 1.39 | 1 | - | - | - | 1 | 5.56 | 1 |
| Other Areas / Dept.'s | 6 | 8.33 | 4 | 2 | 5.88 | 2 | - | - | - |

Results Comparisons – 2013 to 2015 (56 Foundries)

| | 2015 (7854 emp) | | 2014 (7723 emp) | | 2013 (7259 emp) | |
|----------------------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| | Total | RIDDOR | Total | RIDDOR | Total | RIDDOR |
| Hand Tools | 117 | 2 | 103 | 6 | 114 | 7 |
| Machinery | 73 | 7 | 63 | 10 | 52 | 8 |
| Vehicles | 14 | 1 | 27 | 5 | 22 | 8 |
| Slips / Trips | 202 | 22 | 193 | 17 | 175 | 27 |
| Falls from Height | 21 | 5 | 21 | 1 | 30 | 6 |
| Burns | 252 | 17 | 251 | 6 | 235 | 18 |
| Manual Handling | 582 | 36 | 702 | 37 | 605 | 35 |
| Eye Injuries | 252 | - | 260 | 2 | 263 | - |
| Chemical Injuries | 7 | - | 7 | - | 6 | 1 |
| Struck by Moving Object | 83 | 5 | 154 | 15 | 177 | 15 |
| Struck by Falling Object | 83 | - | NA | NA | NA | NA |
| Struck against Stationary Object | 101 | 1 | 142 | - | 126 | - |
| Other | 44 | 1 | 63 | - | 60 | 4 |
| Reportable Diseases | 5 | 5 | 3 | 3 | 2 | 2 |
| TOTAL | 1836 | 102 | 1989 | 102 | 1867 | 131 |
| Rate | 23.38 /100 | 1298.70 /100K | 25.75 /100 | 1320.73 /100K | 25.72 /100 | 1804.66 /100K |

SHIFT Case Study 1 (Large foundry)

RIDDOR Analysis

| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| RIDDOR | 9 | 7 | 5 | 3 | 7 | 5 | 1 | 6 | 6 | 5 | 2 |
| RIDDOR Rate / 100K | 4348 | 3590 | 2551 | 1515 | 3889 | 2688 | 546 | 3125 | 3509 | 2941 | 1220 |
| Total | 138 | 98 | 79 | 62 | 37 | 40 | 28 | 26 | 41 | 50 | 46 |
| Overall Rate / 100 | 66.67 | 53.85 | 40.31 | 31.31 | 20.56 | 21.51 | 15.301 | 13.54 | 23.98 | 29.41 | 28.05 |

SHIFT Case Study 1 (Large foundry)

Total Accident Breakdown

| | Hand Tools | M/C | Veh | F /S/T | FFH | Burns | Handle Object | Eyes | Chem | Struck by MO | Struck by FO | Struck SO | Other | Rep Dis | Total |
|------|------------|-----|-----|--------|-----|-------|---------------|------|------|--------------|--------------|-----------|-------|---------|-------|
| 2006 | 1 | 4 | 0 | 10 | 0 | 7 | 15 | 46 | 0 | 0 | | 14 | 1 | | 98 |
| 2007 | 2 | 0 | 2 | 6 | 1 | 5 | 19 | 32 | 0 | 5 | | 4 | 3 | | 79 |
| 2008 | 1 | 3 | 0 | 8 | 0 | 5 | 13 | 22 | 0 | 3 | | 5 | 2 | | 62 |
| 2009 | 0 | 1 | 0 | 6 | 0 | 3 | 12 | 10 | 0 | 1 | | 4 | 0 | | 37 |
| 2010 | 0 | 0 | 2 | 2 | 0 | 3 | 9 | 11 | 0 | 8 | | 5 | 0 | | 40 |
| 2011 | 1 | 2 | 1 | 1 | 0 | 1 | 8 | 7 | 0 | 5 | | 2 | 0 | | 28 |
| 2012 | 1 | 0 | 2 | 4 | 0 | 2 | 4 | 7 | 0 | 2 | | 2 | 0 | | 26 |
| 2013 | 3 | 1 | 1 | 5 | 1 | 3 | 4 | 10 | 0 | 11 | | 1 | 0 | 1 | 41 |
| 2014 | 2 | 0 | 1 | 4 | 1 | 4 | 7 | 12 | 0 | 13 | | 5 | 1 | 0 | 50 |
| 2015 | 3 | 8 | 0 | 6 | 0 | 4 | 10 | 5 | 0 | 3 | 3 | 2 | 0 | 2 | 46 |

SHIFT Case Study 2 (Small foundry)

| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------|--------|-------|-------|------|---------|------|-------|
| RIDDOR | 0 | 0 | 1 | 0 | 3 | 1 | 0 |
| RIDDOR Rate / 100K | 0 | 0 | 2174 | 0 | 8571.42 | 2083 | 0 |
| Total | 66 | 40 | 32 | 24 | 26 | 29 | 19 |
| Overall Rate / 100 | 153.49 | 93.02 | 69.57 | 53 | 74.29 | 60 | 54.29 |

| | Hand Tools | M/C | Veh | F /S/T | FFH | Burns | Handle Object | Eyes | Chem | Struck by MO | Struck by FO | Struck SO | Other | Rep Dis | Total |
|------|------------|-----|-----|--------|-----|-------|---------------|------|------|--------------|--------------|-----------|-------|---------|-------|
| 2009 | 3 | 3 | 0 | 7 | 0 | 6 | 19 | 21 | 0 | 2 | | 4 | 1 | | 66 |
| 2010 | 0 | 0 | 0 | 3 | 0 | 3 | 10 | 11 | 0 | 7 | | 6 | 0 | | 40 |
| 2011 | 2 | 1 | 0 | 2 | 0 | 2 | 4 | 12 | 0 | 7 | | 2 | 0 | | 32 |
| 2012 | 0 | 0 | 0 | 0 | 0 | 1 | 17 | 2 | 0 | 2 | | 1 | 1 | | 24 |
| 2013 | 1 | 0 | 0 | 1 | 0 | 2 | 15 | 6 | 0 | 0 | | 1 | 0 | 0 | 26 |
| 2014 | 4 | 0 | 0 | 0 | 0 | 2 | 17 | 6 | 0 | 0 | | 0 | 0 | 0 | 29 |
| 2015 | 0 | 0 | 0 | 2 | 0 | 0 | 13 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 19 |

Case Study Progress Reports

Large Member

- Over 10 year reporting period the business has 26.2% less employees in 2015 than 2005¹
- There is a defined increase in active safety management as time has progressed²
- There is an increased level in value-added activities beyond the casting process

Small Member

- Since 2009 until 2015 there is a 22.9% reduction in the number of employees^{1, 2}
- There is a defined increase in active safety management as time has progressed

¹ By default a decrease in employee numbers will increase reported values for both RIDDOR and overall accident rates on a like for like number of accidents.

² An increase in reported accident numbers cannot be taken by themselves to be indicative of a decrease in safety performance. As active safety increases employees become more aware of the need to report accidents. This, taken with a decrease in overall employee numbers, will produce an increase in reported rates and does not mean that the foundry is a less safe place to be working or that due care for the health, safety and welfare of employees is not taking place.

Where accident rates decrease with smaller numbers of employees, it may mean safer working by employees in general or that management of safety continues to strengthen.

By default, an increase in the size of the workforce will result in decreased reported values for both RIDDOR and overall accident rates on a like for like number of accidents.

2017 Targets

Based on the information received from SHIFT members during the phase 2 base year of 2012, the target values to achieve the 25% reduction in accidents for the initiative by the end of 2017 were:

- 127 or less RIDDOR reportable accidents
- A RIDDOR rate of less than 1444
- A total number of accidents per 100 employees of 19 or less

However..... due to the change in RIDDOR reporting requirements that occurred in December 2013, the targets were revised in line with the changes and therefore the new targets to achieve are:

- ü **100 or less RIDDOR reportable accidents**
- ü **A RIDDOR rate of less than 1109**
- ü **A total number of accidents per 100 employees of 17 or less**

Summary

- A 2.63% increase in numbers of members reporting data over 2014 equates to a 12.82% increase in employees included within the initiative. Some individual members show a significant uplift in numbers employed compared with 2014, while others remain stable and some show a reduction of more than a fifth of the workforce.
- There is a significant change in the number of members who have reported for the last 3 rolling years from 48 (2012 to 2014 period) to 56 (2013 to 2015 period). This has enabled a better study of the underlying performance compared with any previous 3 year rolling period. The reduction in RIDDOR accidents is 38.96% in real terms between 2013 & 2015. However, it must be noted that the reduction between years 2014 & 2015 in isolation is only 1.7%.
- The number of investment casting sector companies has remained stable although there is some variation in the reporting members between 2013 and 2015, so any performance variation cannot be assumed to be naturalised.
- The primary four categories for accidents in 2015 have remained the same main categories throughout the full history of the SHIFT initiative. Despite efforts made to date, more work remains to be undertaken to yield improvements in these areas.

Summarycont'd

- There is a non-significant reduction in the number of RIDDOR accidents reported for 2015 compared with 2014. However, given the significant increase in the number of employees included in the initiative, the reduction in the overall RIDDOR rate over the past year equates to 16.47%.
- The number of members reporting lost time due to injuries sustained in the workplace has more than doubled since phase 2 was launched in 2012. The downward trend of days lost as a result of workplace injuries has continued into 2015, which coupled with the increase in reporting members is a positive step for the industry.
- There has been a non-significant reduction in overall accidents reported by members (2.5%) compared with the previous year. However, with the significant increase in the number of employees included, the overall accident rate per 100 employees compared with 2014 is 14.29% lower. Given that there is an increase in the number and size of first time reporting members, coupled with a variation in employee numbers of others reporting, this is not completely unexpected.
- Near miss reporting has significantly improved across the membership since phase 2 was launched in 2012, although reporting is still undertaken in less than 40% of the members.

Conclusion

As with the previous report in 2014, the SHIFT Initiative has again increased the number of reporting members for the reporting year 2015, although, the mix of companies reporting has changed, with some members who have good track records for reporting previously, not submitting information this time. This has been partially offset by the number of companies reporting for the first time. However, there remains a hard core of the membership to be persuaded to share their information. Greater emphasis needs to be made to understand what is preventing the sharing of information with the initiative by those that currently do not, taking into account full anonymity is guaranteed as individual reports are aggregated into the final published report.

Some members have been very active in addressing both safety and occupational health, which has resulted in improved performance for themselves as individual companies. While the overall accident rate per 100 employees for SHIFT has decreased, it is possible that this is due to the mix of companies that have reported data, combined with the improving individual performance by some members.

There is a 16.67% increase in the number of members who have consistently reported data for the past 3 years. While this is not as large as the increase in 2014, it is significant in that it takes the number of consistently reporting members above 50% of the total membership. This level of continued reporting serves to give a more realistic underlying performance of the initiative towards its goals. This dataset does show a significant reduction in the amount of reportable accidents over the past 3 years but when taken in isolation, there has been no reduction in the past twelve months. The decrease in RIDDOR rates is therefore, due to the small overall increase in the workforce of these members.

Conclusion.....cont'd

Despite the continued improvement to the initiative's RIDDOR rate as presented in this report, the entire UK reportable accident rates also continues to improve at the same time. As a result, the SHIFT RIDDOR rate remains 3.77 times that of the overall UK average.

Due to the HSE taking a 3yr average for the overall RIDDOR rate for Manufacturing, it is not possible to take an effective comparison when analysing our information.

However, the HSE does publish accurate information for major or specified injuries for the UK overall and our rate is comparable. For over 7 day injuries, the SHIFT rate is 4.43 times that of the UK as a whole. This difference for over 7 day injuries is not entirely unexpected due to the nature and variety of the physical and chemical hazards with which foundries work on a daily basis, but does provide a challenge that, as an industry, we need to rise to.

Again, the HSE produces accurate figures for the major or specified injury rate and over 7 day rate for manufacturing specifically. Against these figures, SHIFT is on par / 2.60 times greater respectively. As with the figures for comparing SHIFT to the UK overall this will partially be due to the hazards with which we work.

Therefore, there is still much work to be done with regards to achieving a level of accident rates in the foundry workplace similar to that of the UK overall. Importantly, the report for 2015 does illustrate the initiative remains on target to achieve its goal of a 25% reduction in reported workplace accidents and cases of ill-health by 2017 from our reported 2012 levels.

Conclusion.....cont'd

The initiative is currently undertaking new work targeting behavioural change in the workplace, which has been developed for the benefit of Team Leaders and Supervisors. We also continue to train/educate Directors & Senior Management in their roles and responsibilities with an external partner.

With the report for the Long Latency Health Risk Project due to be published in the middle of this year, this will assist in determining the efforts to be made over the next 18 months and areas to be targeted. Foundries are also likely to be subject to visitation from HSE inspectors as part of their planned work activities for their operating year 2016/17.

The initiative and its members continue to remain focussed on making improvements in order to help maintain the health of its member's employees and to reduce the number of physical accidents sustained within the UK foundry industry, therefore helping with the current GB Strategy as launched by the HSE at the end of February this year.