



**SHIFT**

*Safety & Health Foundry Targets Initiative*

# SHIFT Accident Statistics

**2013 Reporting Year**

# Headline News 2013

<b><i>SHIFT Member data reported to CMF</i></b>	2013	2012	2011	2010
Number of companies reporting (total) so far is	72	64	33	36
Giving a total number of employees covered as	9595	8776	4387	4117
Total Number of Accidents Reported to SHIFT is	2238	2270	1367	1323
Of which are RIDDOR reportable being	171	169	85	94
Giving an accident rate per 100 employees of	23	26	31	32
and a RIDDOR rate per 100,000 employees of	1782	1926	1938	2283
Number of ferrous companies reporting so far is	42	38		
Number of non ferrous companies reporting so far is	30	26		
Number of small companies reporting data is	24	21	7	
Number of medium companies reporting data is	28	25	18	
Number of large companies reporting data is	20	18	8	
Number of sand casting foundries reporting data is	51	47	27	
Number of die casting foundries reporting data is	15	13	6	
Number of investment casting foundries reporting data is	6	4		
Number of near-misses reported so far is	293	490		
Number of members reporting near-misses is	24	18		
Number of lost days due to work related injury reported so far is	4342.25	2894		
Number of members reporting work related injury lost days is	52	33		
Number of lost days due to work related ill-health reported so far is	518.75	219.5		
Number of members reporting work related ill-health lost days is	6	3		
Number of lost days due to non-work work related injury or ill-health reported so far is	14592.5	13272		
Number of members reporting non-work related lost days is	30	23		
Number of new reportees to SHIFT is	11	23		
Number of returning reportees to SHIFT is	4	10		

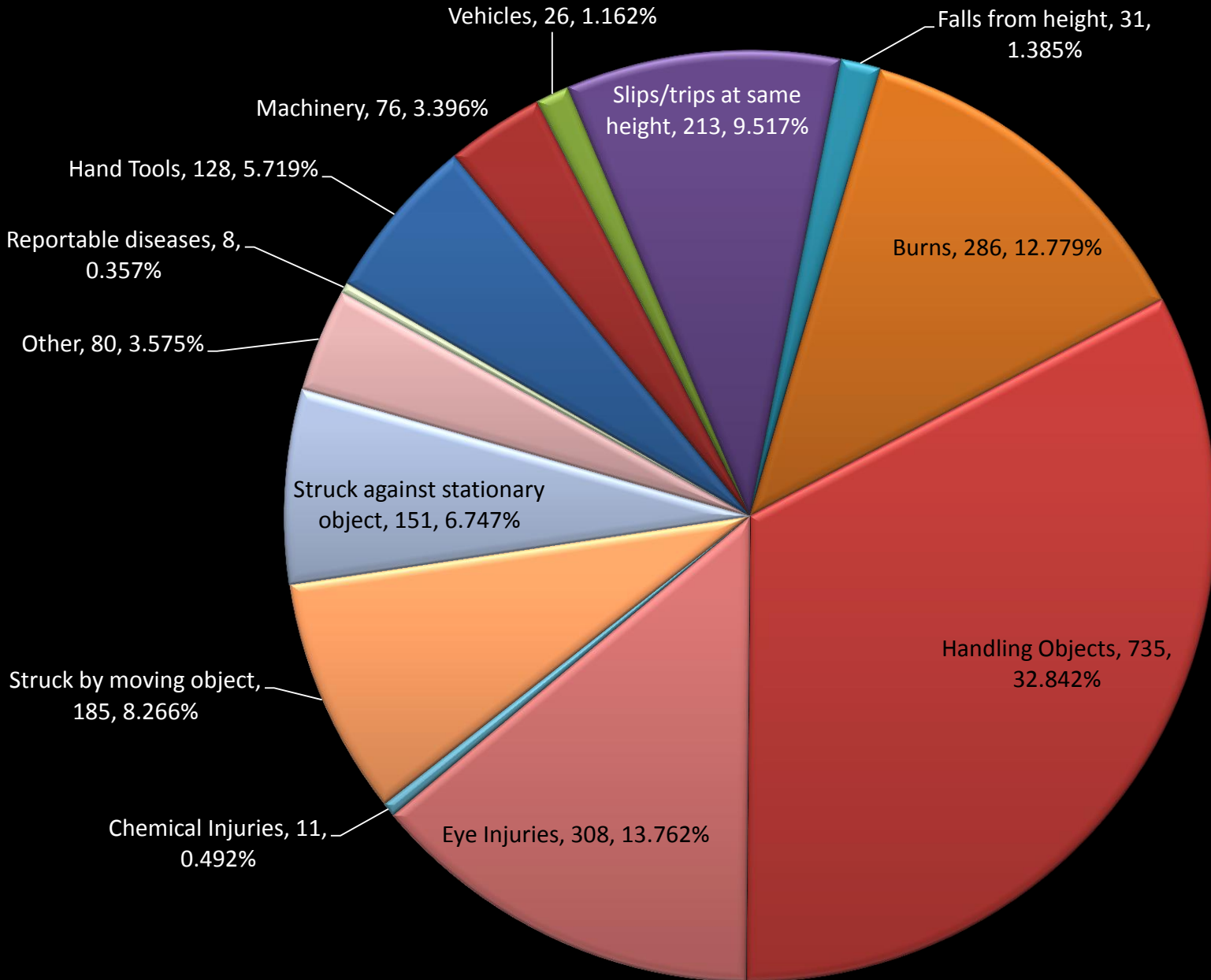
# Reporting History (Last 4 years)

Date	Reporting Year	Number of Companies	Employees Covered
2011	2010	36 (includes x new entrants)	4117
2012	2011	33 (includes 2 new entrants)	4387
2013	2012	64 (includes 23 new and 10 returning entrants)	8776
2014	2013	72 (includes 11 new and 4 returning entrants)	9595

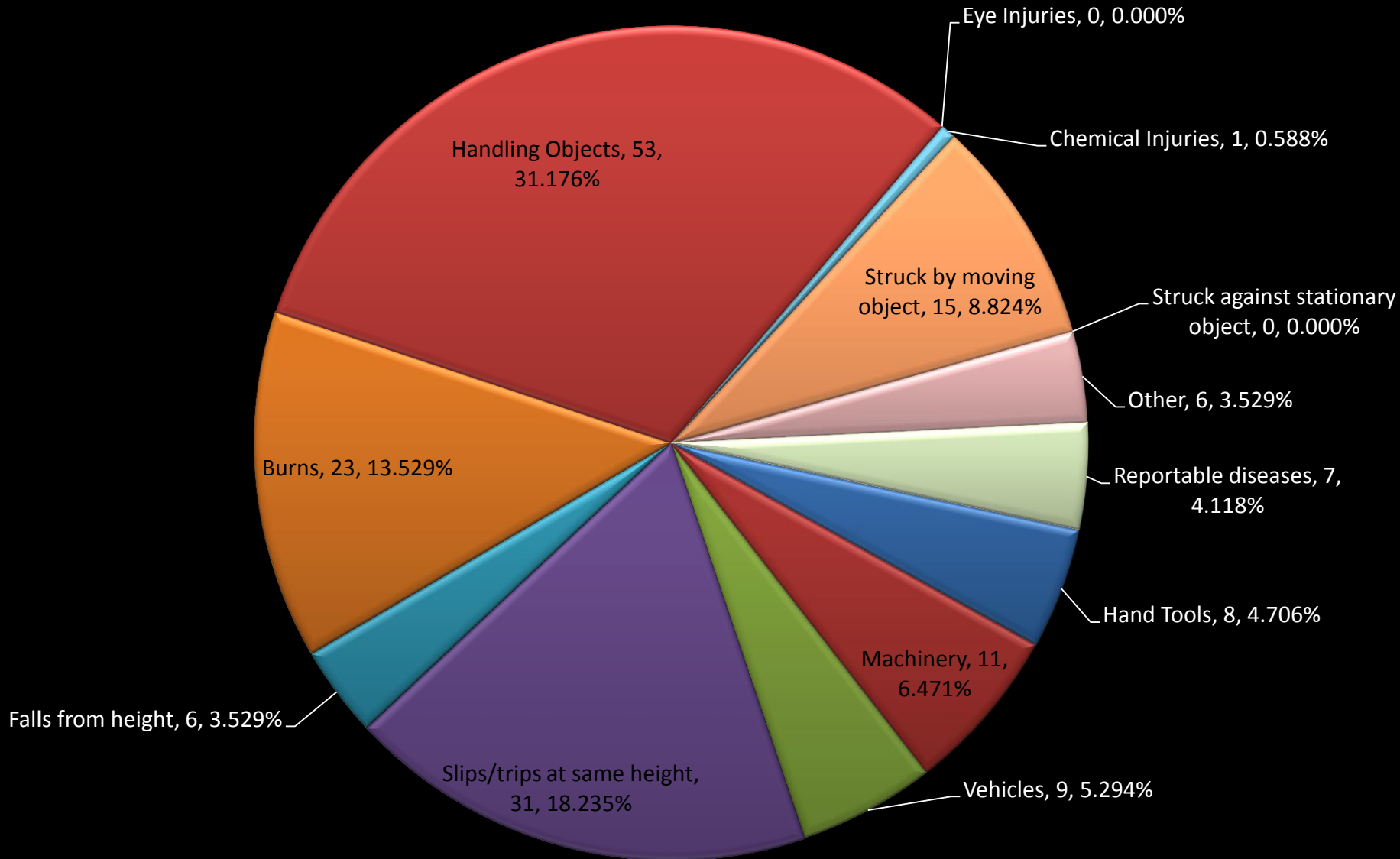
# Reporting History (Last 3 years)

Accident Type	2013	Change against 2012	2012	2011
Companies reporting	72	+8	64	33
Fatal Injuries	0	0	0	0
Major Injuries	17	-13	30	4
Over 3 Day injuries	38	NA	139	81
Over 7 Day injuries	116	NA		
Other accidents	2067	-34	2101	1282
Total	2238	-32	2270	1367
Accident rate / 100 employees	23	-3	26	31
RIDDOR rate / 100K employees	1782	-144	1926	1938

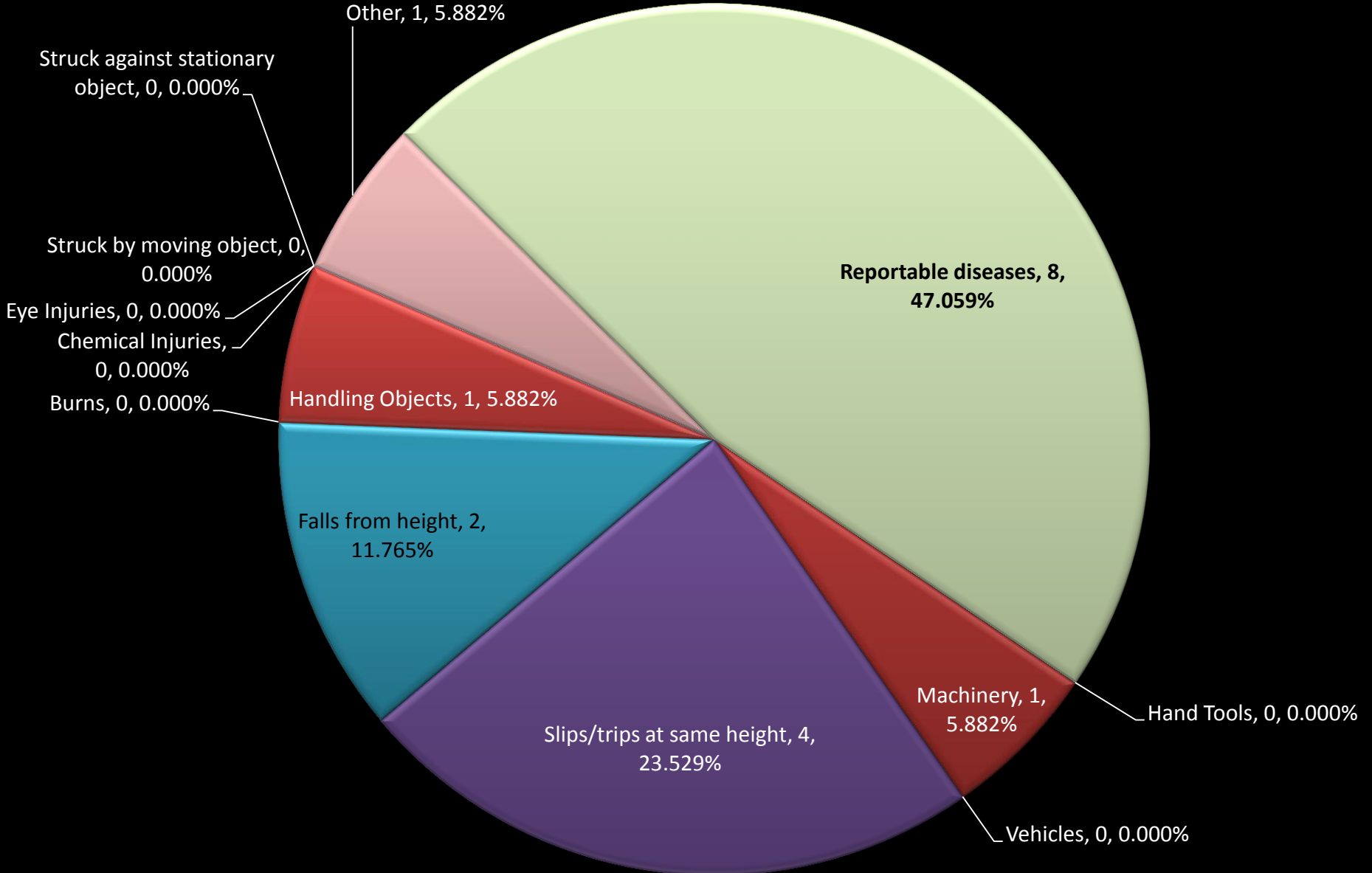
# Total Accidents Reported 2013



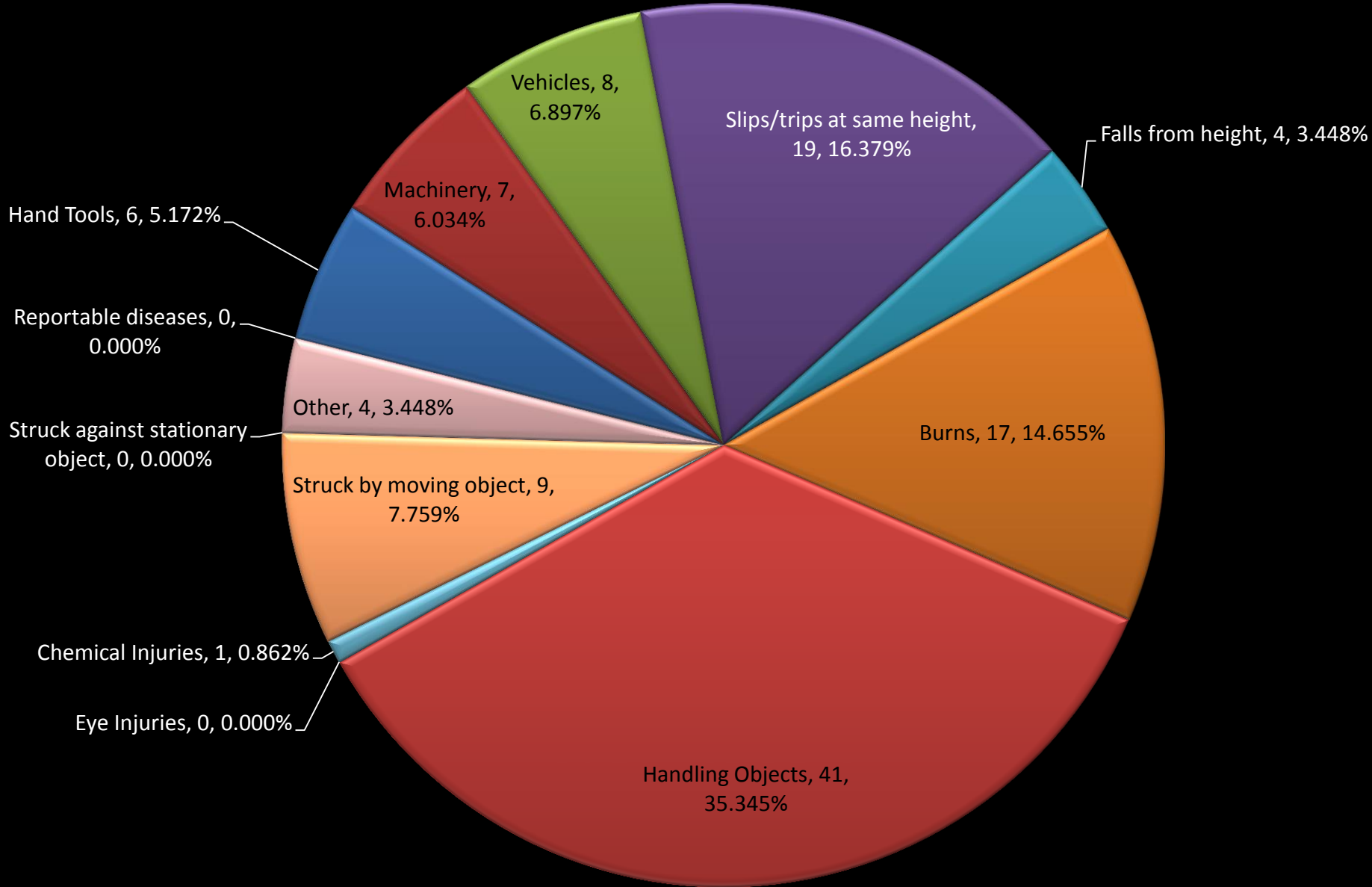
# Total RIDDOR Accidents Reported 2013



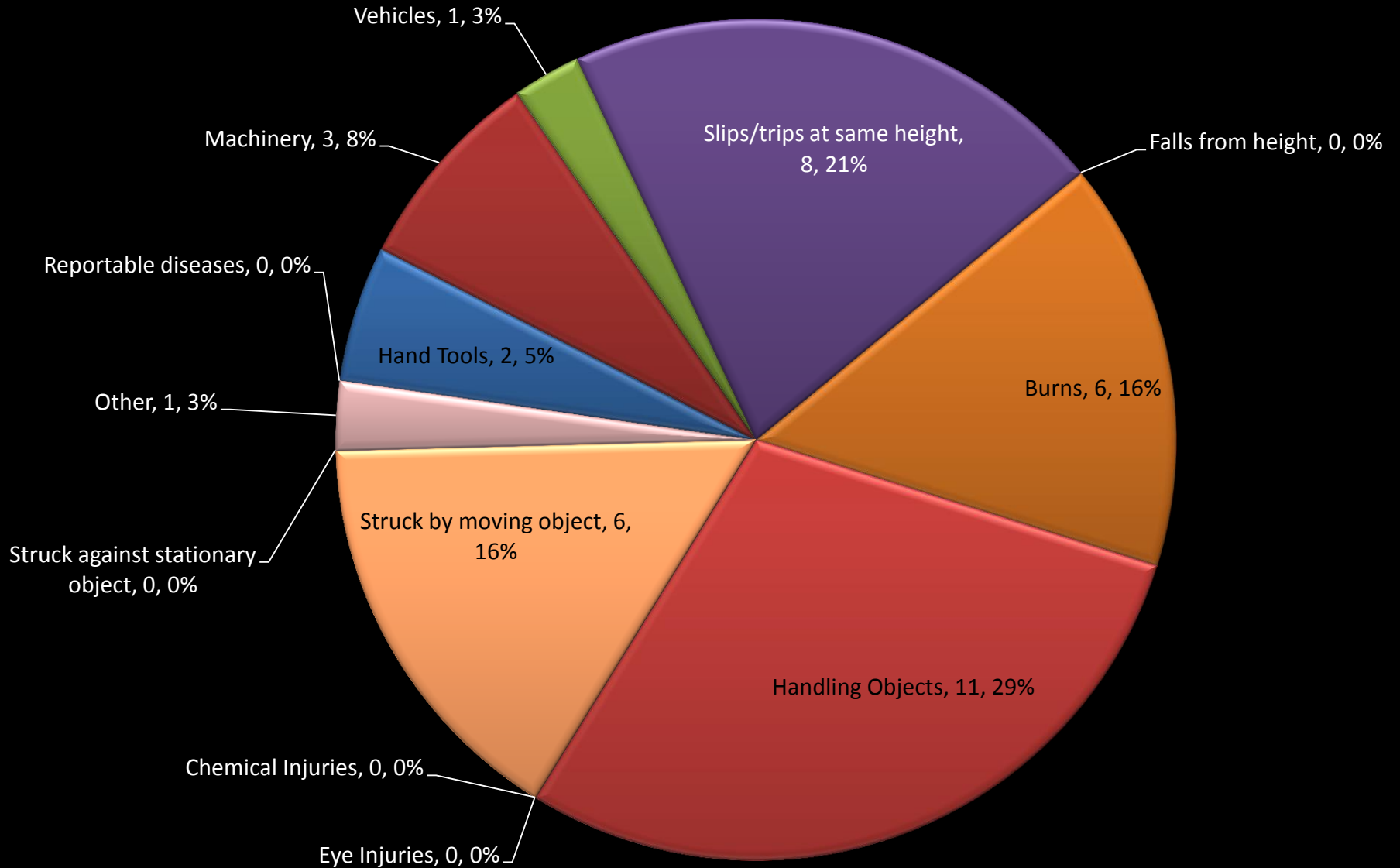
# Major RIDDOR Accidents Reported 2013



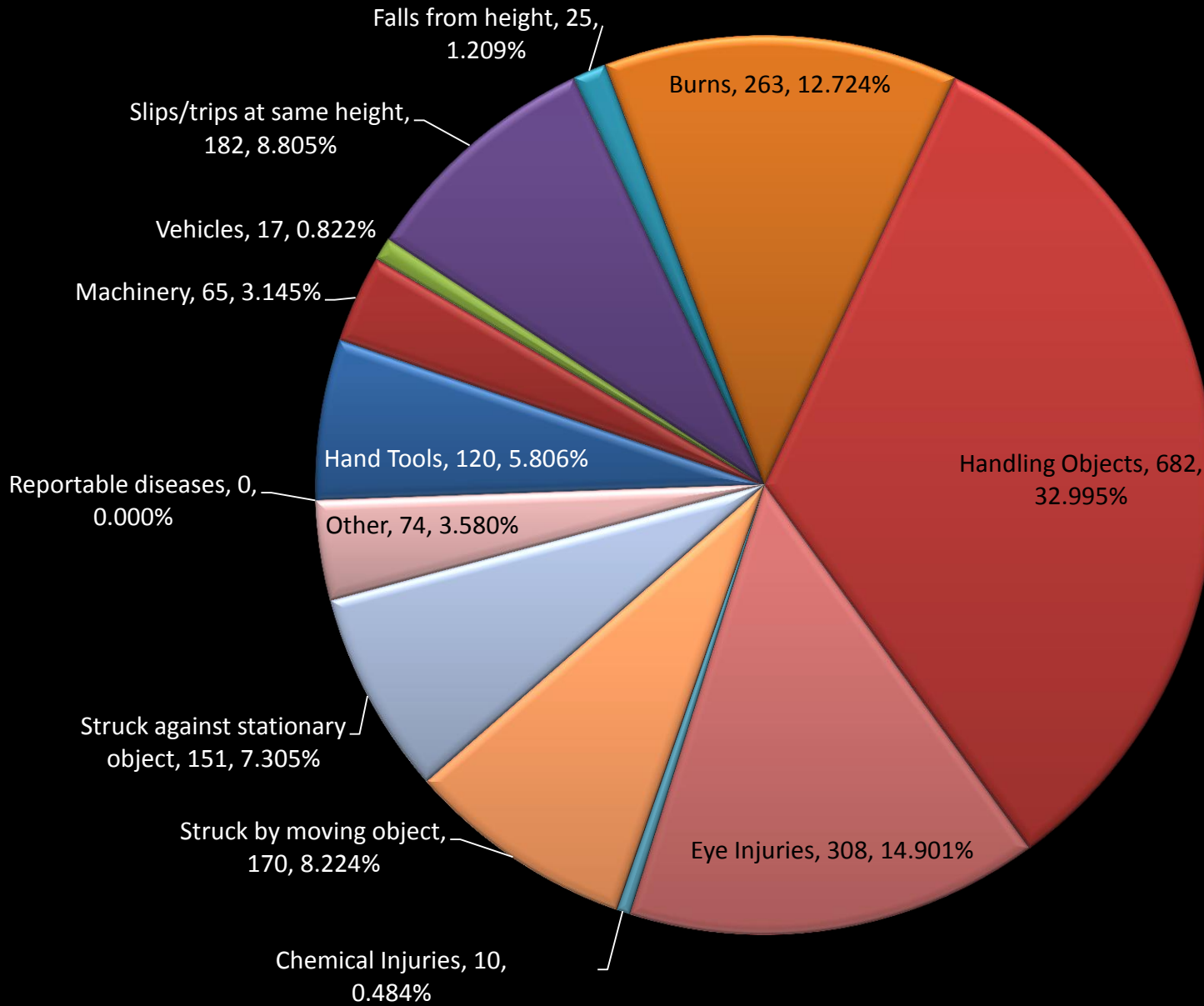
# Over 7 Day Accidents Reported 2013



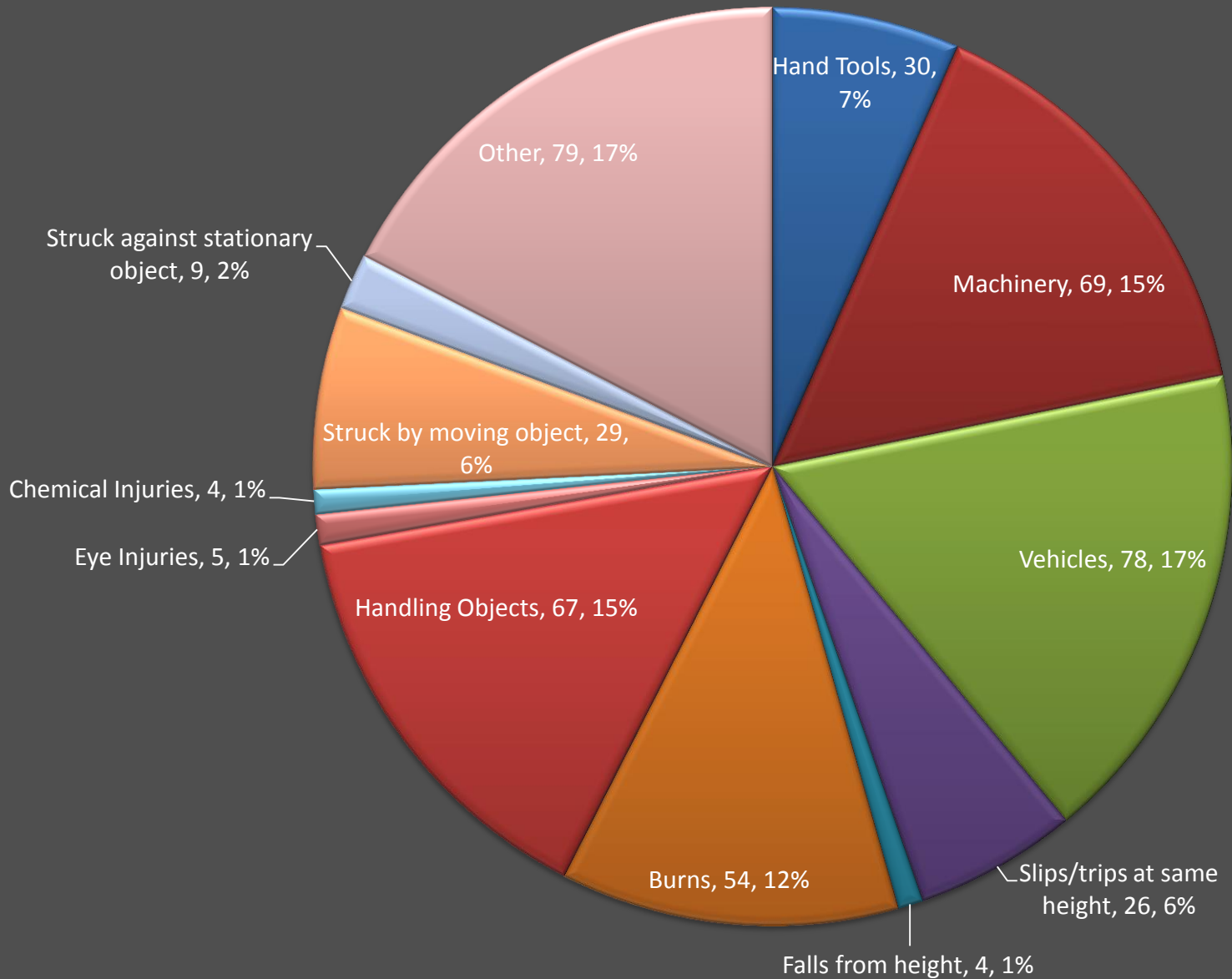
# Over 3 Day Accidents Reported 2013



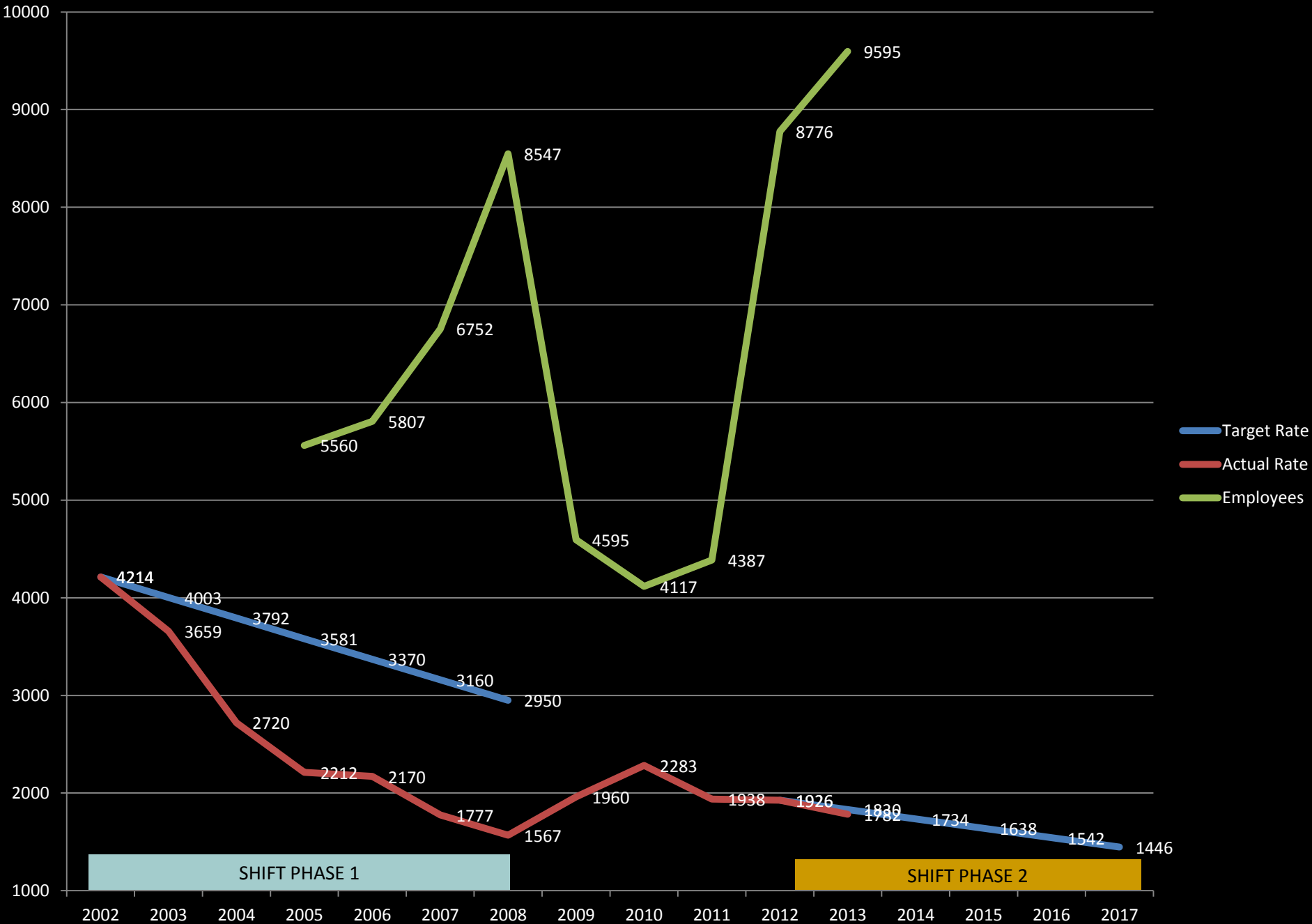
# Non-RIDDOR Accidents Reported 2013



# Near Misses Reported 2013



# RIDDOR - Target Rates vs Actual Acheived



# New / Returning Reports 2013

Category	Number	Employees	Material	Process	Size of Company
New	11	831	Ferrous 7 Non-ferrous 4	Sand 7 Die 2 Investment 2	Small 6 Medium 4 Large 1
Returnees	4	586	Ferrous 1 Non-ferrous 3	Sand 2 Die 1 Investment 1	Medium 2 Large 2
Restructured	0				

Category	Number	Employees				
			Accidents	Rate/100 emp	RIDDOR	Rate/100K emp
New	11	831	188	22.62	9	1083.03
Returning	4	586	111	18.94	13	2218.43
Restructured	0					

# Process Comparisons – Ferrous vs Non-Ferrous

	Ferrous (42)		Non-Ferrous (30)	
Employees	5406		4189	
	Total Accidents	RIDDOR	Total Accidents	RIDDOR
Hand Tools	83	8	45	0
Machinery	45	9	31	2
Vehicles	20	8	6	1
Slips / Trips	107	22	106	9
Falls from Height	19	5	12	1
Burns	155	16	131	7
Manual Handling	380	33	355	20
Eye Injuries	214	0	94	0
Chemical Injuries	3	0	8	1
Struck by Moving Object	112	11	73	4
Struck against Stationary Object	66	0	85	0
Other	51	5	29	1
Reportable Diseases	2	2	6	6
TOTAL	1257	119	981	52
Rate	23.25/100	2201.25 /100K	23.42/100	1241.34 /100K

# Process Comparisons – Sand vs Die-cast vs Investment

	Sand (51)		Die-cast (15)		Investment (6)	
Employees	6405		1862		1328	
	Total Accidents	RIDDOR	Total Accidents	RIDDOR	Total Accidents	RIDDOR
Hand Tools	96	8	24	0	8	0
Machinery	51	9	14	1	11	1
Vehicles	24	8	1	0	1	1
Slips / Trips	144	24	54	6	15	1
Falls from Height	22	6	9	0	0	0
Burns	178	17	98	5	10	1
Manual Handling	464	40	216	6	55	7
Eye Injuries	245	0	52	0	11	0
Chemical Injuries	4	0	2	1	5	0
Struck by Moving Object	157	14	26	1	2	0
Struck against Stationary Object	89	0	42	0	20	0
Other	58	6	19	0	3	0
Reportable Disease	2	2	0	0	6	6
TOTAL	1534	134	557	20	147	17
Rate	23.95/ 100	2092.11 /100K	29.91/ 100	1074.11 /100K	11.07/ 100	1280.12 /100K

# Process Comparisons – Company Size

	Large (6161 emp)		Medium (2714 emp)		Small (720 emp)	
	/100 employees	/ 100K employees	/100 employees	/ 100K employees	/100 employees	/ 100K employees
	Total	RIDDOR	Total	RIDDOR	Total	RIDDOR
Hand Tools	70	3	42	3	16	2
Machinery	41	6	26	5	9	0
Vehicles	15	6	9	2	2	1
Slips / Trips	145	22	51	8	17	1
Falls from Height	24	5	5	1	2	0
Burns	164	12	85	9	37	2
Manual Handling	403	20	241	28	91	5
Eye Injuries	206	0	73	0	29	0
Chemical Injuries	7	1	2	0	2	0
Struck by Moving Object	139	11	40	3	6	1
Struck against Stationary Object	11	0	36	0	5	0
Other	38	2	29	4	13	0
Reportable Diseases	7	7	0	0	1	1
TOTAL	1369	95	639	63	230	13
Rate	22.22/ 100	1541.95/ 100K	23.54/ 100	2321.29/ 100K	31.94/ 100	1805.55/ 100K

# Results Comparisons – 2011 to 2013 (26 Foundries)

	2013 (3472 emp)		2012 (3544 emp)		2011 (3167 emp)	
	Total	RIDDOR	Total	RIDDOR	Total	RIDDOR
Hand Tools	52	4	58	0	51	4
Machinery	27	5	43	9	40	3
Vehicles	7	2	9	1	3	0
Slips / Trips	100	12	134	10	98	12
Falls from Height	13	2	7	2	12	3
Burns	150	13	123	3	116	2
Manual Handling	380	23	312	28	265	20
Eye Injuries	198	0	186	2	182	1
Chemical Injuries	2	0	4	0	8	1
Struck by Moving Object	106	3	183	15	150	12
Struck against Stationary Object	75	0	59	2	155	6
Other	44	1	56	3	78	8
Reportable Diseases	1	1	0	0	0	0
<b>TOTAL</b>	<b>1105</b>	<b>66</b>	<b>1204</b>	<b>75</b>	<b>1158</b>	<b>72</b>
Rate	31.83 /100	1900.92 /100K	33.97 /100	2116.25 /100K	36.56 /100	2273.44 /100K

# 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 are:

- ✓ **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**

# Reporting Errors

- Common reporting problems in 2013 matched 2012:-
  - Number of employees not reported
  - Details within breakdown not completed
  - Non-SHIFT template used – makes classifying difficult
  - Incorrect reporting categories
    - Many entries in ‘Other accidents’ category when defined categories exist to report accidents

# Summary

- 12.5% increase in numbers of members reporting data over 2012 equates to a 9.33% increase in employees included within the initiative. Some individual members showing significant variation in numbers employed compared to 2012 while others remain stable.
- 1.18% increase in the number of RIDDOR accidents reported to SHIFT. Due to the increased number of employees covered this produces 7.48% decrease in the actual RIDDOR rate per 100,000 employees.
- 1.14% drop in the number of overall accidents reported produces a decrease of 11.54% in the overall accident rate per 100 employees.
- There is a variable mix in members reporting with only 26 members submitting data for each of the last three consecutive years. This does exert a level of influence in all accident figures produced. These 26 are a variation of members from the previous mix of 25 who reported for 2010 – 2012.
- Analysis of historic figures indicate the primary four categories for accidents in 2013 have been the same main categories throughout the history of SHIFT. Focus therefore needs to improve in these areas.
- The investment casting sector is now included in the report, the numbers employed by the reporting companies being close to those of the die-casting sector.

# Conclusion

Although SHIFT has continued to make progress with the numbers of members reporting, there remains a hard core of the membership still to be persuaded to enter their data. Therefore the potential to further increase the accuracy of accident figures for the UK foundry industry exists and efforts need to be maintained to achieve higher levels of reporting.

As members make progress with developing their safety systems and improve internal metrics there remains the possibility that accident numbers will continue to rise in the short term, only being offset by physical improvements in the working environment therefore reducing the potential for people to become injured while at work. Simple housekeeping improvements have the potential to significantly reduce slips and trips, which persistently remain one of the four primary categories for all accidents recorded in the life of the SHIFT initiative.

As the RIDDOR rate for the UK foundry industry remains circa 3 times that of the UK Manufacturing Sector average much work remains to be done, but importantly, the data for 2013 shows that for the first year of SHIFT Phase 2, the initiative is on target to achieve its goal of a 25% reduction in reported workplace accidents and cases of ill-health by 2017.