



**Trade &
Investment**
Mine Safety



NSW Mine Safety Performance Report

2012 – 2013

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CONTENTS

CONTENTS	i
FIGURES	iv
DEFINITIONS	ix
COMET DATABASE TERMS.....	xi
1 EXECUTIVE SUMMARY	1
Major Performance Measures	3
Targets.....	3
Fatalities	4
Lost Time Injuries	5
Serious Bodily Injuries	7
2 INTRODUCTION.....	9
Purpose.....	9
Objectives.....	9
About NSW Trade & Investment - Mine Safety.....	9
The COMET Database	10
3 MINES	11
3.1 Mines	11
3.1.1 Number of Mines by Mining Sector and Mine Operation Type	11
4 INCIDENTS	12
4.1 All Incidents	12
4.1.1 All Incidents by Sector.....	12
4.1.2 All Incidents by Operation Type	13
4.1.3 All Incidents by Incident Investigation Level.....	15
4.1.4 All Incidents by Event Subtype.....	16
4.2 Coal Incidents	17
4.2.1 Coal Incidents by Operation Type.....	17
4.2.2 Coal Incidents by Incident Investigation Level	19
4.2.3 Coal Incidents by Event Subtype	20
4.2.4 Coal Incidents by Incident Type	21
4.3 Non-Coal Incidents	22
4.3.1 Non-Coal Incidents by Operation Type.....	22
4.3.2 Non-Coal Metalliferous Incidents by Incident Investigation Level.....	24
4.3.3 Non-Coal Metalliferous Incidents by Event Subtype.....	25
4.3.4 Non-Coal Metalliferous Incidents by Incident Type.....	26
4.3.5 Non-Coal Extractives Incidents by Incident Investigation Level.....	27
4.3.6 Non-Coal Extractives Incidents by Event Subtype.....	28
4.3.7 Non-Coal Extractives Incidents by Incident Type.....	29
4.3.8 Non-Coal Other Incidents by Incident Investigation Level	30
4.3.9 Non-Coal Other Incidents by Event Subtype	31
4.3.10 Non-Coal Other Incidents by Incident Type	32
4.4 Petroleum (Onshore) Incidents.....	33
4.4.1 Petroleum (Onshore) Incidents by Incident Investigation Level.....	33
4.4.2 Petroleum (Onshore) Incidents by Event Subtype.....	35
4.4.3 Petroleum (Onshore) Incidents by Incident Type.....	35
4.5 High Potential Incidents.....	36
4.5.1 High Potential Incidents by Sector	36
4.5.2 High Potential Incidents by Incident Investigation Level	37
4.5.3 High Potential Incidents by Event Subtype	38

4.6	Complaint Incidents	39
4.6.1	Complaint Incidents by Sector.....	39
4.6.2	Complaint Incidents by Incident Investigation Level	40
4.6.3	Complaint Incidents by Event Subtype	41
5	INJURIES.....	42
5.1	Hours Worked.....	43
5.1.1	Coal, Metalliferous and Extractives Hours Worked.....	44
5.1.2	Coal Hours Worked	44
5.1.3	Metalliferous Hours Worked	45
5.1.4	Extractives Hours Worked.....	45
5.2	Fatalities.....	46
5.2.1	Fatalities by Sector	47
5.2.2	Coal Fatalities since 1900	48
5.2.3	Non-Coal Metalliferous & Extractives Fatalities since 1989-90	49
5.2.4	Annual Fatal Injury Frequency Rate (FIFR) 2002-03 to 2012-13.....	49
5.2.5	Annual Fatal Injury Frequency Rate (FIFR) National Comparison 2002-03 to 2012-13	50
5.2.6	Annual Fatal Injury Frequency Rate (FIFR) International Comparison 2002-03 to 2012-13	50
5.3	Lost Time Injuries (LTIs).....	51
5.3.1	Lost Time Injuries by Sector.....	52
5.3.2	Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13.....	52
5.3.3	Annual Lost Time Injury Frequency Rate (LTIFR) National Comparison 2002-03 to 2012-13	54
5.3.4	Annual Lost Time Injury International Comparison 2002-03 to 2012-13	56
5.4	Total Recordable Injuries (TRIs).....	59
5.4.1	Total Recordable Injuries by Sector	60
5.4.2	Total Recordable Injuries by Injury Type.....	60
5.5	Serious Bodily Injuries (SBIs).....	64
5.5.1	Serious Bodily Injuries by Sector	65
5.5.2	Annual Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13.....	65
5.5.3	Serious Bodily Injuries by Event Subtype	67
5.5.4	Serious Bodily Injuries by Mechanism	68
5.5.5	Serious Bodily Injuries by Agency.....	68
5.5.6	Serious Bodily Injuries by Nature of Injury	69
5.5.7	Serious Bodily Injuries by Bodily Location	69
5.5.8	Serious Bodily Injuries by Age Group	70
5.5.9	Serious Bodily Injuries by Employment Type.....	70
5.6	Notifiable Injury Outcomes	71
5.6.1	Notifiable Injury Outcomes by Injury Outcome.....	72
5.6.2	Notifiable Injury Outcomes by Sector.....	73
5.6.3	Notifiable Injury Outcomes by Operation Type	73
5.6.4	Notifiable Injury Outcomes by Event Subtype.....	74
5.6.5	Notifiable Injury Outcomes by Mechanism.....	75
5.6.6	Notifiable Injury Outcomes by Agency	75
5.6.7	Notifiable Injury Outcomes by Nature of Injury.....	76
5.6.8	Notifiable Injury Outcomes by Bodily Location.....	76
5.6.9	Notifiable Injury Outcomes by Age Group.....	77
5.6.10	Notifiable Injury Outcomes by Employment Type	77
6	ASSESSMENTS	78
6.1	All Assessments	78
6.1.1	All Assessments by Sector.....	78
6.1.2	All Assessments by Operation Type	79
6.1.3	All Assessments by Event Subtype.....	80
6.2	Coal Assessments	81
6.2.1	Coal Assessments by Operation Type.....	81
6.2.2	Coal Assessments by Event Subtype	82

6.3	Non-Coal Assessments	83
6.3.1	Non-Coal Assessments by Operation Type	83
6.3.2	Non-Coal Metalliferous Assessments by Event Subtype	84
6.3.3	Non-Coal Extractives Assessments by Event Subtype	85
6.3.4	Non-Coal Other Assessments by Event Subtype	86
6.4	Petroleum (Onshore) Assessments	87
6.4.1	Petroleum (Onshore) Assessments by Event Subtype	87
7	ENFORCEMENT AND ADVICE NOTICES	88
7.1	All Enforcement and Advice Notices	88
7.1.1	All Enforcement and Advice Notices by Sector	88
7.1.2	All Enforcement and Advice Notices by Operation Type	89
7.1.3	All Enforcement and Advice Notices by Notice Category	90
7.2	Coal Enforcement and Advice Notices	91
7.2.1	Coal Enforcement and Advice Notices by Operation Type	91
7.2.2	Coal Enforcement and Advice Notices by Notice Category	92
7.3	Non-Coal Enforcement and Advice Notices	93
7.3.1	Non-Coal Enforcement and Advice Notices by Operation Type	93
7.3.2	Non-Coal Metalliferous Enforcement and Advice Notices by Notice Category	94
7.3.3	Non-Coal Extractives Enforcement and Advice Notices by Notice Category	95
7.3.4	Non-Coal Other Enforcement and Advice Notices by Notice Category	96
7.4	Petroleum (Onshore) Enforcement and Advice Notices	97
7.4.1	Petroleum (Onshore) Enforcement and Advice Notices by Notice Category	97
	APPENDIX A ADDITIONAL FIGURES	98
Appendix A.1	Incidents	98
Appendix A.2	Hours Worked	115
Appendix A.3	Fatalities	116
Appendix A.4	Lost Time Injuries (LTIs)	117
Appendix A.5	Total Recordable Injuries (TRIs and TRIFRs)	118
Appendix A.6	Serious Bodily Injuries (SBIs)	119
Appendix A.7	Notifiable Injury Outcomes	123
Appendix A.8	Assessments	140
Appendix A.9	Enforcement and Advice Notices	143
Appendix A.10	Number of Mines by Mining Sector, Mine Type and Mine Operation Type	147
	APPENDIX B ADDITIONAL INFORMATION	148
Appendix B.1	COMET Mine Types, Mining Sectors and Mine Operation Types	148
Appendix B.2	COMET Incident Event Subtypes	149
Appendix B.3	COMET Incident Types and Relevant Legislation	150
Appendix B.4	Serious Bodily Injury Types and Relevant Legislation	151
Appendix B.5	Notifiable Injury Outcomes and Relevant Legislation	152
Appendix B.6	Comparison of Incident and Injury Notification Requirements under Former and Current Legislation	154
Appendix B.7	COMET Assessment Event Subtypes	169
Appendix B.8	Enforcement and Advice Notice Categories and Relevant Legislation	170
Appendix B.9	Sources of Data	171
Appendix B.10	Links to Other Sources of Information	173

FIGURES

Figure 1	NSW Coal, Metalliferous & Extractives 5 Year Average Fatal Injury Frequency Rate (FIFR) 2002-03 to 2012-13.....	4
Figure 2	NSW Coal, Metalliferous & Extractives 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13.....	5
Figure 3	NSW Coal 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13.....	6
Figure 4	NSW Metalliferous and Extractives 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13.....	6
Figure 5	NSW Coal, Metalliferous & Extractives 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13.....	7
Figure 6	NSW Coal 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13.....	8
Figure 7	NSW Metalliferous and Extractives 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13.....	8
Figure 8	Number of Mines by Mining Sector and Mine Operation Type 2012-13.....	11
Figure 9	All Incidents by Sector 2002-03 to 2012-13.....	12
Figure 10	All Incidents 2002-03 to 2012-13.....	13
Figure 11	All Incidents by Surface / Underground Operation 2002-03 to 2012-13.....	13
Figure 12	All Surface Incidents 2002-03 to 2012-13.....	14
Figure 13	All Underground Incidents 2002-03 to 2012-13.....	14
Figure 14	All Incidents by Incident Investigation Level 2002-03 to 2012-13.....	15
Figure 15	All Incidents by Incident Investigation Level 2002-03 to 2012-13.....	15
Figure 16	All Incidents by Incident Investigation Level 2012-13.....	15
Figure 17	All Incidents by Event Subtype 2002-03 to 2012-13.....	16
Figure 18	All Incidents by Event Subtype 2012-13.....	16
Figure 19	Coal Incidents by Operation Type 2002-03 to 2012-13.....	17
Figure 20	Coal Incidents 2002-03 to 2012-13.....	17
Figure 21	Coal Surface Incidents 2002-03 to 2012-13.....	18
Figure 22	Coal Underground Incidents 2002-03 to 2012-13.....	18
Figure 23	Coal Incidents by Incident Investigation Level 2002-03 to 2012-13.....	19
Figure 24	Coal Incidents by Incident Investigation Level 2002-03 to 2012-13.....	19
Figure 25	Coal Incidents by Incident Investigation Level 2012-13.....	19
Figure 26	Coal Incidents by Event Subtype 2002-03 to 2012-13.....	20
Figure 27	Coal Incidents by Event Subtype 2012-13.....	20
Figure 28	Coal Incidents by Incident Type 2002-03 to 2012-13.....	21
Figure 29	Non-Coal Incidents by Operation Type 2002-03 to 2012-13.....	22
Figure 30	Non-Coal Incidents 2002-03 to 2012-13.....	22
Figure 31	Non-Coal Surface Incidents 2002-03 to 2012-13.....	23
Figure 32	Non-Coal Underground Incidents 2002-03 to 2012-13.....	23
Figure 33	Non-Coal Metalliferous Incidents by Incident Investigation Level 2002-03 to 2012-13.....	24
Figure 34	Non-Coal Metalliferous Incidents by Incident Investigation Level 2002-03 to 2012-13.....	24
Figure 35	Non-Coal Metalliferous Incidents by Incident Investigation Level 2012-13.....	24
Figure 36	Non-Coal Metalliferous Incidents by Event Subtype 2002-03 to 2012-13.....	25
Figure 37	Non-Coal Metalliferous Incidents by Event Subtype 2012-13.....	25
Figure 38	Non-Coal Metalliferous Incidents by Incident Type 2002-03 to 2012-13.....	26
Figure 39	Non-Coal Extractives Incidents by Incident Investigation Level 2002-03 to 2012-13.....	27
Figure 40	Non-Coal Extractives Incidents by Incident Investigation Level 2002-03 to 2012-13.....	27
Figure 41	Non-Coal Extractives Incidents by Incident Investigation Level 2012-13.....	27
Figure 42	Non-Coal Extractives Incidents by Event Subtype 2002-03 to 2012-13.....	28
Figure 43	Non-Coal Extractives Incidents by Event Subtype 2012-13.....	28
Figure 44	Non-Coal Extractives Incidents by Incident Type 2002-03 to 2012-13.....	29
Figure 45	Non-Coal Other Incidents by Incident Investigation Level 2002-03 to 2012-13.....	30
Figure 46	Non-Coal Other Incidents by Incident Investigation Level 2002-03 to 2012-13.....	30
Figure 47	Non-Coal Other Incidents by Incident Investigation Level 2012-13.....	30
Figure 48	Non-Coal Other Incidents by Event Subtype 2002-03 to 2012-13.....	31
Figure 49	Non-Coal Other Incidents by Event Subtype 2012-13.....	31
Figure 50	Non-Coal Other Incidents by Incident Type 2002-03 to 2012-13.....	32

Figure 51	Petroleum (Onshore) Incidents by Incident Investigation Level 2002-03 to 2012-13	33
Figure 52	Petroleum (Onshore) Incidents by Incident Investigation Level 2002-03 to 2012-13	34
Figure 53	Petroleum (Onshore) Incidents by Incident Investigation Level 2012-13.....	34
Figure 54	Petroleum Incidents by Event Subtype 2002-03 to 2012-13.....	35
Figure 55	Petroleum Incidents by Event Subtype 2012-13	35
Figure 56	Petroleum (Onshore) Incidents by Incident Type 2002-03 to 2012-13	35
Figure 57	High Potential Incidents by Sector 2002-03 to 2012-13.....	36
Figure 58	High Potential Incidents by Sector 2002-03 to 2012-13.....	36
Figure 59	High Potential Incidents by Incident Investigation Level 2002-03 to 2012-13.....	37
Figure 60	High Potential Incidents by Incident Investigation Level 2002-03 to 2012-13.....	37
Figure 61	High Potential Incidents by Incident Investigation Level 2012-13.....	37
Figure 62	High Potential Incidents by Event Subtype 2002-03 to 2012-13.....	38
Figure 63	High Potential Incidents by Event Subtype 2012-13	38
Figure 64	Complaint Incidents by Sector 2002-03 to 2012-13	39
Figure 65	Complaint Incidents by Sector 2002-03 to 2012-13	39
Figure 66	Complaint Incidents by Incident Investigation Level 2002-03 to 2012-13.....	40
Figure 67	Complaint Incidents by Incident Investigation Level 2002-03 to 2012-13.....	40
Figure 68	Complaint Incidents by Incident Investigation Level 2012-13	40
Figure 69	Complaint Incidents by Event Subtype 2002-03 to 2012-13	41
Figure 70	Complaint Incidents by Event Subtype 2012-13	41
Figure 71	NSW Coal, Metalliferous and Extractives Total Hours Worked 2002-03 to 2012-13.....	44
Figure 72	NSW Coal Total Hours Worked 2002-03 to 2012-13	44
Figure 73	NSW Metalliferous Total Hours Worked 2002-03 to 2012-13	45
Figure 74	NSW Extractives Total Hours Worked 2002-03 to 2012-13.....	45
Figure 75	NSW Coal, Metalliferous & Extractives and Petroleum Fatalities by Sector 2002-03 to 2012-13.....	47
Figure 76	NSW Coal Annual Fatalities 1900 to 2012-13.....	48
Figure 77	NSW Non-Coal Metalliferous & Extractives Annual Fatalities 1989-90 to 2012-13.....	49
Figure 78	NSW Coal, Metalliferous & Extractives Mining Annual Fatal Injury Frequency Rate (FIFR) 2002-03 to 2012-13.....	49
Figure 79	NSW, QLD and WA Coal, Metalliferous & Extractives Annual Fatal Injury Frequency Rate (FIFR) 2002-03 to 2012-13	50
Figure 80	NSW and USA Coal, Metalliferous & Extractives Annual Fatal Injury Frequency Rate (FIFR) 2002-03 to 2012-13.....	50
Figure 81	NSW Coal, Metalliferous & Extractives Lost Time Injuries by Sector 2002-03 to 2012-13.....	52
Figure 82	NSW Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13.....	52
Figure 83	NSW Coal Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13.....	53
Figure 84	NSW Metalliferous and Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13	53
Figure 85	NSW, QLD and WA Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13	54
Figure 86	NSW, QLD and WA National Coal Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13	54
Figure 87	NSW, QLD and WA Metalliferous Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13	55
Figure 88	NSW, QLD and WA Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13	55
Figure 89	NSW and USA Coal, Metalliferous & Extractives Annual NFDL Frequency Rate 2002-03 to 2012-13	56
Figure 90	NSW and USA Coal Annual NFDL Frequency Rate 2002-03 to 2012-13	57
Figure 91	NSW and USA Metalliferous Annual NFDL Frequency Rate 2002-03 to 2012-13	57
Figure 92	NSW and USA Extractives Annual NFDL Frequency Rate 2002-03 to 2012-13.....	58
Figure 93	NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Sector 2007-08 to 2012-13	60
Figure 94	NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2012-13	60
Figure 95	NSW Coal Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2012-13.....	61
Figure 96	NSW Metalliferous & Extractives Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2012-13	61

Figure 97	NSW Coal, Metalliferous & Extractives Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2012-13	62
Figure 98	NSW Coal Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2012-13	62
Figure 99	NSW Metalliferous & Extractives Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2012-13	63
Figure 100	Serious Bodily Injuries by Sector 2002-03 to 2012-13	65
Figure 101	NSW Coal, Metalliferous & Extractives Annual Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13	65
Figure 102	NSW Coal Annual Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13.....	66
Figure 103	NSW Metalliferous & Extractives Annual Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13	66
Figure 104	Serious Bodily Injuries by Event Subtype 2002-03 to 2012-13	67
Figure 105	Serious Bodily Injuries by Event Subtype 2012-13	67
Figure 106	Serious Bodily Injuries by Mechanism 2012-13	68
Figure 107	Serious Bodily Injuries by Agency 2012-13.....	68
Figure 108	Serious Bodily Injuries by Nature of Injury 2012-13	69
Figure 109	Serious Bodily Injuries by Bodily Location 2012-13	69
Figure 110	Serious Bodily Injuries by Age Group 2012-13	70
Figure 111	Serious Bodily Injuries by Employment Type 2012-13.....	70
Figure 112	Notifiable Injury Outcomes by Injury Outcome mid 2006-07 to 2012-13.....	72
Figure 113	Notifiable Injury Outcomes by Injury Outcome mid 2006-07 to 2012-13.....	72
Figure 114	Notifiable Injury Outcomes 2012-13	72
Figure 115	Notifiable Injury Outcomes by Sector mid 2006-07 to 2012-13.....	73
Figure 116	Notifiable Injury Outcomes by Surface/Underground Operation mid 2006-07 to 2012-13.....	73
Figure 117	Notifiable Injury Outcomes by Event Subtype mid 2006-07 to 2012-13.....	74
Figure 118	Notifiable Injury Outcomes by Event Subtype 2012-13.....	74
Figure 119	Top 10 Mechanisms for Notifiable Injury Outcomes 2012-13	75
Figure 120	Top 10 Agencies for Notifiable Injury Outcomes 2012-13.....	75
Figure 121	Top 10 Natures of Injury for Notifiable Injury Outcomes 2012-13	76
Figure 122	Top 10 Bodily Locations for Notifiable Injury Outcomes 2012-13	76
Figure 123	Notifiable Injury Outcomes by Age Group 2012-13.....	77
Figure 124	Notifiable Injury Outcomes by Employment Type 2012-13	77
Figure 125	All Assessments by Sector 2002-03 to 2012-13	78
Figure 126	All Assessments by Sector 2002-03 to 2012-13	78
Figure 127	All Assessments by Operation Type 2002-03 to 2012-13.....	79
Figure 128	All Assessments by Operation Type 2002-03 to 2012-13.....	79
Figure 129	All Assessments by Event Subtype 2002-03 to 2012-13	80
Figure 130	All Assessments by Event Subtype 2012-13.....	80
Figure 131	Coal Assessments by Operation Type 2002-03 to 2012-13	81
Figure 132	Coal Assessments 2002-03 to 2012-13	81
Figure 133	Coal Assessments by Event Subtype 2002-03 to 2012-13.....	82
Figure 134	Coal Assessments by Event Subtype 2012-13	82
Figure 135	Non-Coal Assessments by Operation Type 2002-03 to 2012-13.....	83
Figure 136	Non-Coal Assessments 2002-03 to 2012-13	83
Figure 137	Non-Coal Metalliferous Assessments by Event Subtype 2002-03 to 2012-13	84
Figure 138	Non-Coal Metalliferous Assessments by Event Subtype 2012-13.....	84
Figure 139	Non-Coal Extractives Assessments by Event Subtype 2002-03 to 2012-13	85
Figure 140	Non-Coal Extractives Assessments by Event Subtype 2012-13.....	85
Figure 141	Non-Coal Other Assessments by Event Subtype 2002-03 to 2012-13	86
Figure 142	Non-Coal Other Assessments by Event Subtype 2002-03 to 2012-13	86
Figure 143	Petroleum (Onshore) Assessments by Event Subtype 2002-03 to 2012-13	87
Figure 144	Petroleum (Onshore) Assessments by Event Subtype 2012-13.....	87
Figure 145	All Enforcement and Advice Notices by Sector 2002-03 to 2012-13	88
Figure 146	All Enforcement and Advice Notices by Sector 2002-03 to 2012-13	88
Figure 147	All Enforcement and Advice Notices by Operation Type 2002-03 to 2012-13	89
Figure 148	All Enforcement and Advice Notices by Operation Type 2002-03 to 2012-13	89
Figure 149	All Enforcement and Advice Notices by Notice Category 2002-03 to 2012-13.....	90
Figure 150	Coal Enforcement and Advice Notices by Operation Type 2002-03 to 2012-13	91
Figure 151	Coal Enforcement and Advice Notices 2002-03 to 2012-13	91
Figure 152	Coal Enforcement and Advice Notices by Notice Category 2002-03 to 2012-13	92

Figure 153	Non-Coal Enforcement and Advice Notices by Operation Type 2002-03 to 2012-13.....	93
Figure 154	Non-Coal Enforcement and Advice Notices 2002-03 to 2012-13	93
Figure 155	Non-Coal Metalliferous Enforcement and Advice Notices by Notice Category 2002-03 to 2012-13.....	94
Figure 156	Non-Coal Extractives Enforcement and Advice Notices by Notice Category 2002-03 to 2012-13.....	95
Figure 157	Non-Coal Other Enforcement and Advice Notices by Notice Category 2002-03 to 2012-13.....	96
Figure 158	Petroleum (Onshore) Enforcement and Advice Notices by Notice Category 2009-10 to 2012-13.....	97
Figure 159	Coal Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13.....	98
Figure 160	Coal Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13	101
Figure 161	Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13.....	105
Figure 162	Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13.....	107
Figure 163	Non-Coal Extractives Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13.....	110
Figure 164	Non-Coal Extractives Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13.....	113
Figure 165	Non-Coal Other Incidents by Incident Type and Subtype 2002-03 to 2012-13	114
Figure 166	Petroleum (Onshore) Incidents by Incident Type and Subtype 2002-03 to 2012-13	114
Figure 167	NSW Coal Hours Worked by Operation Type 2002-03 to 2012-13	115
Figure 168	NSW Metalliferous Hours Worked by Operation Type 2002-03 to 2012-13	115
Figure 169	NSW Extractives Total Hours Worked 2002-03 to 2012-13.....	115
Figure 170	NSW Coal, Metalliferous & Extractives Fatalities by Sector 2002-03 to 2012-13.....	116
Figure 171	NSW Coal, Metalliferous & Extractives Fatalities by Operation Type 2002-03 to 2012-13.....	116
Figure 172	NSW Coal, Metalliferous & Extractives Lost Time Injuries by Sector 2002-03 to 2012-13.....	117
Figure 173	NSW Coal, Metalliferous & Extractives Lost Time Injuries by Operation Type 2002-03 to 2012-13.....	117
Figure 174	NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Sector 2007-08 to 2012-13	118
Figure 175	NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Operation Type 2007-08 to 2012-13	118
Figure 176	Serious Bodily Injuries by Sector 2002-03 to 2012-13	119
Figure 177	Serious Bodily Injuries by Operation Type 2002-03 to 2012-13.....	119
Figure 178	Serious Bodily Injuries by Mechanism 2002-03 to 2012-13	120
Figure 179	Serious Bodily Injuries by Agency 2002-03 to 2012-13	121
Figure 180	Serious Bodily Injuries by Nature of Injury 2002-03 to 2012-13.....	121
Figure 181	Serious Bodily Injuries by Bodily Location 2002-03 to 2012-13.....	122
Figure 182	Serious Bodily Injuries by Age Group 2002-03 to 2012-13	122
Figure 183	Serious Bodily Injuries by Employment Type 2002-03 to 2012-13	122
Figure 184	Notifiable Injury Outcomes by Sector mid 2006-07 to 2012-13.....	123
Figure 185	Notifiable Injury Outcomes by Surface/Underground Operation mid 2006-07 to 2012-13.....	123
Figure 186	Notifiable Injury Outcomes by Event Subtype mid 2006-07 to 2012-13.....	124
Figure 187	Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2012-13.....	125
Figure 188	Notifiable Injury Outcomes by Agency mid 2006-07 to 2012-13	128
Figure 189	Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2012-13	130
Figure 190	Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2012-13.....	134
Figure 191	Notifiable Injury Outcomes by Age Group mid 2006-07 to 2012-13.....	138
Figure 192	Notifiable Injury Outcomes by Employment Type mid 2006-07 to 2012-13.....	139
Figure 193	Coal Surface Assessments by Event Subtype 2002-03 to 2012-13	140
Figure 194	Coal Underground Assessments by Event Subtype 2002-03 to 2012-13.....	140
Figure 195	Non-Coal Metalliferous Surface Assessments by Event Subtype 2002-03 to 2012-13 ..	141
Figure 196	Non-Coal Metalliferous Underground Assessments by Event Subtype 2002-03 to 2012-13.....	141
Figure 197	Non-Coal Extractives Surface Assessments by Event Subtype 2002-03 to 2012-13.....	141
Figure 198	Non-Coal Extractives Underground Assessments by Event Subtype 2002-03 to 2012-13.....	142

Figure 199	Non-Coal Other Surface Assessments by Event Subtype 2002-03 to 2012-13	142
Figure 200	Non-Coal Other Underground Assessments by Event Subtype 2002-03 to 2012-13.....	142
Figure 201	Coal Surface and Underground Enforcement and Advice Notices by Notice Category and Type 2002-03 to 2012-13	143
Figure 202	Non-Coal Metalliferous Surface and Underground Enforcement and Advice Notices by Notice Category and Type 2002-03 to 2012-13	144
Figure 203	Non-Coal Extractives Surface and Underground Enforcement and Advice Notices by Notice Category and Type 2002-03 to 2012-13	145
Figure 204	Non-Coal Other Enforcement and Advice Notices by Notice Category and Type 2002-03 to 2012-13	146
Figure 205	Petroleum (Onshore) Enforcement and Advice Notices by Notice Category and Type 2002-03 to 2012-13	146
Figure 206	Number of Mines by Mining Sector, Mine Type and Mine Operation Type 2012-13	147
Figure 207	COMET Mine Types and Mining Sectors	148
Figure 208	COMET Mine Operation Types	148
Figure 209	COMET Incident Event Subtypes.....	149
Figure 210	COMET Incident Types under former and current legislation	150
Figure 211	Coal Serious Bodily Injury (SBI) clauses under former and current legislation.....	151
Figure 212	Non-Coal Serious Injury (SI) clauses under former and current legislation	151
Figure 213	Petroleum (Onshore) Serious Injury (SI) clauses under current legislation	151
Figure 214	Notifiable Injury Outcomes under current legislation.....	152
Figure 215	Comparison of Incident and Injury Notification Requirements under Former and Current Coal Legislation	154
Figure 216	Comparison of Incident and Injury Notification Requirements under Former and Current Non-Coal Legislation	162
Figure 217	COMET Assessment Event Subtypes.....	169
Figure 218	Enforcement and Advice Notice Categories and Types.....	170
Figure 219	Sources of NSW Data	171
Figure 220	Sources of Other National and International Data.....	172

DEFINITIONS

Injury Classifications

Fatal Injury (FI)

An injury that results in death.

Lost Time Injury (LTI)

An injury that results in a minimum of one full shift's absence (AS1885.1 – 1990).

Medical Treatment Injury (MTI)

An injury requiring medical treatment.

Restricted Duty Injury (RDI)

An injury resulting in the injured person returning to alternative/restricted duties.

Total Recordable Injuries (TRI)

The total number of fatal injuries, lost time injuries, medical treatment injuries and restricted duty injuries.

Serious Bodily Injury (SBI)

An injury whose **nature of injury** is notifiable under the relevant legislation is classified as a Serious Bodily Injury (SBI) in this report and covers the following:

Serious Bodily Injury (SBI) – Coal

Refers to the nature of injury types specified in *Coal Mines (General) Regulation 1999* Clause 85 and the *Coal Mine Health & Safety Regulation 2006* Clauses 55 and 57.

Serious Injury (SI) – Non-Coal

Refers to the nature of injury types specified in the *Mines Inspection Act 1901* Section 47 and the *Mine Health & Safety Regulation 2007* Clause 145.

Serious Injury (SI) – Petroleum (Onshore)

Refers to serious injury as specified in the *Petroleum (Onshore) Schedule 1992* Clause 301(1) "an injury which requires immediate attention by a medical practitioner".

Refer to Appendix B.4 for details of Serious Bodily Injury Types and Relevant Legislation.

Notifiable Injury Outcomes

An injury may result in one or more of the following notifiable injury outcomes:

- Fatality
- Entrapment
- Loss of consciousness
- Hospital inpatient admission
- At least seven days of lost time and/or alternative duties

With the exception of fatality, these injury outcomes became newly reportable under the Coal Mine Health and Safety Regulation 2006 Clauses 55, 56 and 57 from mid 2006-07, and the Mine Health and Safety Regulation 2007 Clause 145 and 146 from the second quarter of 2008-09.

Refer to Appendix B.5 for details of Notifiable Injury Outcomes and Relevant Legislation.

Frequency Rates

Fatal Injury Frequency Rate (FIFR)

The number of fatal injuries per million hours worked.

Lost Time Injury Frequency Rate (LTIFR)

The number of lost time injuries per million hours worked.

Serious Bodily Injury Frequency Rate (SBIFR)

The number of serious bodily injuries per million hours worked.

Total Recordable Injury Frequency Rate (TRIFR)

The total number of fatal injuries, lost time injuries, medical treatment injuries and restricted duty injuries per million hours worked.

Five-Year Average

A statistical technique which charts the average annual value for the last five years. It enables a long-term trend to be produced directly from raw data even where it varies widely from year to year.

Note: *Frequency Rates in this report are provided for the Coal, Metalliferous and Extractives sectors only, as hours worked cannot be reliably sourced for the Non-Coal Other and Petroleum (Onshore) sectors.*

Refer to Appendix B.9 for Sources of Data

Enforcement and Advice Notices

Advice/Improvement Notice

Notice bringing concerns regarding health, safety or welfare to the attention of operators and Improvement Notices.

Prohibition Notice

Notice imposing a prohibition, restriction or direction to evacuate or close a mine.

Investigation Notice

Notice requiring stoppage of plant or non-disturbance of premises or in regard to the removal of any item or obtaining of information /documents/evidence by an inspector

Explosives Notice

Notice regarding certain powers of inspectors in relation to explosives.

Refer to Appendix B.8 for details of Enforcement Notice Categories, Relevant Legislation and Enforcement Types.

Current Legislation

Coal	CMHSA 2002 CMHSR 2006	Coal Mine Health and Safety Act 2002 Coal Mine Health and Safety Regulation 2006
Non-Coal	MHSA 2004 MHSR 2007	Mine Health and Safety Act 2004 Mine Health and Safety Regulation 2007
Petroleum	POSch 1992	Petroleum (Onshore) Schedule 1992
Explosives	EXPLA 2003 EXPLR 2005	Explosives Act 2003 Explosives Regulation 2005
WHS	WHSA 2011 WHSR 2011	Work Health and Safety Act 2011 Work Health and Safety Regulation 2011

COMET DATABASE TERMS

COMET

COMET (COMmon Mines EnvironmenT) is the database system which records the day-to-day business activities of NSW Trade & Investment's Mine Safety Operations branch.

Event

Notifications from mines and mine safety activities involving mines and mining organisations are recorded in COMET as events.

Event Type

This report covers Incident and Assessment events.

Event Subtype

The Event Subtype reflects the general hazard area related to an incident event or the scope of an assessment event.

Refer to Appendix B.2 for details of COMET Incident Event Subtypes and Appendix B.7 for details of COMET Assessment Event Subtypes.

Incident

An occurrence that was required to be notified to NSW Trade & Investment under the relevant legislation, or a non-notifiable matter which has been reported, such as a High Potential Incident or Complaint.

Notifiable Incident

An incident where the incident cause, nature of injury and/or injury outcome requires notification to NSW Trade & Investment according to the relevant legislation.

Non-Notifiable Incident – High Potential Incident or Complaint

An incident where the incident cause, nature of injury and/or injury outcome does not require notification according to the relevant legislation. ie a High Potential Incident or Complaint.

Incident Type

For a notifiable incident, the incident type identifies the clause of the relevant legislation relating to the 'cause' of the incident e.g. CMHSR 2006 Clause 55.

For a non-notifiable incident, the incident type will be either High Potential Incident or Complaint.

Refer to Appendix B.3 for details of COMET Incident Types and Relevant Legislation

Incident Subtype

For a notifiable incident, the incident subtype identifies the sub-clause of the relevant legislation relating to the 'cause' of the incident e.g. CMHSR 2006 Clause 55(j).

When the cause of an incident is not notifiable, but the nature of injury and/or outcome of the injury is notifiable, the incident is recorded with an Incident Type of "Non-Specific Accident ending in Fatality/Injury" and an Incident Subtype of "Notifiable Injury/Outcome".

For a non-notifiable incident, the incident sub-type further identifies the nature of the High Potential Incident or Complaint.

Incident Investigation Level

All incidents are investigated by an Inspector or Mine Safety Officer. An Incident Investigation Level is then assigned to an incident in order to trigger a follow-up site investigation where necessary:

Level 1 – No need to attend. Mine to investigate and report.

Level 2 – Official to attend mine.

Level 3 – Detailed investigation suitable for further action.

Assessment

An Assessment is an inspection, audit, assessment or review by an NSW Trade & Investment Inspector or Mine Safety Officer of compliance with relevant legislation, standards, codes, guidance or advice.

Mine Type

The mine type identifies the mining sector eg Coal, Metalliferous, Extractives.

Refer to Appendix B.1 for details of COMET Mine Types, Mining Sectors and Operation Types

Mine Operation Type

The operation type identifies the nature of the mining work eg Underground, Open Cut, Processing. All operations types other than underground are considered to be Surface Operations.

Note that in this report, both surface and underground activity occurring at an underground operation, is considered as underground activity.

Refer to Appendix B.1 for details of COMET Mine Types, Mining Sectors and Operation Types.

1 EXECUTIVE SUMMARY

This report summarises the incidents and injuries notified to NSW Trade & Investment by the NSW Mining and Extractives industry, and the assessments conducted and enforcements and advice issued by the NSW Mine Safety inspectorate in the 2012-2013 financial year, set against a decade of data.

It classifies data into the Coal, Metalliferous, Extractives, Non-Coal Other and Petroleum (Onshore) mining sectors, and into underground and surface operations. It also analyses serious bodily injuries and injury outcomes by mechanism, agency, nature of injury, bodily location, age group and employment type.

The report provides annual and five year rolling average frequency rates for fatalities, lost time injuries and serious bodily injuries, annual frequency rates for total recordable injuries and documents the growth of the mining workforce based on the number of hours worked as notified each quarter by mine operators in the Coal, Metalliferous and Extractives sectors.

In 2012-13 there was one fatality in the Metalliferous underground sector and one fatality in the Opal underground sector, while the Coal, Extractives and Petroleum (Onshore) sectors were fatality free.

The five year average fatal injury frequency rate to June 2013 remained constant for coal but rose for metalliferous and extractives. Overall, the five year average fatal injury frequency rate (FIFR) to June 2013 has halved since June 2008.

The overall five year average frequency rates of lost time injuries and serious bodily injuries continued their downward trend of the past decade. There were 11% fewer lost time injuries in 2012-13 than in the previous year. The overall five year average lost time injury frequency rate (LTIFR) to June 2013 fell 54.3% compared to June 2008 and reached a record low of 5.88. There was a 46% decrease in the number of coal, metalliferous and extractives serious bodily injuries in 2012-13, the five year average serious bodily injury frequency rate (SBIFR) for 2012-13 fell by 55.2% compared to June 2008 and also reached a record low of 0.65. There were 17% fewer total recordable injuries in 2012-13 than in the previous year.

Both National OHS Strategy targets, to reduce fatalities by 20% and serious injuries by 40% in the ten years 2002-2012, were achieved. Similar ten-year targets to 2022 have been set.

2012-13 was the sixth complete year under the current coal legislation which commenced in mid 2006-07. The current legislation generates more coal incident notifications than the former legislation due to new reporting requirements (including escape of fluid under pressure, unintended plant and vehicle movements and incidents with an injury that had a notifiable outcome) and reporting where thresholds became more inclusive (including gas detection, evidence of electrical arcing, explosive misfires and failure of explosion-protection equipment). Nine times the number of coal incidents were notified in 2012-13 than the average notified for the last five years (2001-02 to 2005-06) under the former legislation and just over two thirds of all incidents occurred in the coal underground sector.

2012-13 was the fourth complete year under the current non-coal legislation which commenced in the second quarter of 2008-09, also with some new and more inclusive reporting requirements. The number of metalliferous and extractives incidents in 2012-13 was 47.8% higher than the average notified for the last five years (2003-04 to 2007-08) under the former legislation.

In 2012-13, serious bodily injuries were again predominantly associated with falls of person, and fractures were the most common nature of injury. The majority of serious bodily injuries were to direct mine employees, just over two thirds occurred in underground operations and all were related to the work environment or mobile mechanical plant.

In 2012-13, the most common causes of injuries with notifiable outcomes (mainly hospital inpatient admission or seven days of lost time and/or alternative duties) were muscular stressing, falls (including slips and trips) or being hit by moving or falling objects. The most common natures of injury were sprains and strains. Hand and finger injuries featured prominently, 78% occurred in underground operations and the majority were related to either the work environment or mobile mechanical equipment.

Major Performance Measures

Targets

NSW Trade & Investment – Mine Safety has a goal of zero fatalities and zero serious bodily injuries in the NSW Mining and Extractives industry.

The National OHS Strategy 2002-2012 set national targets to reduce the incidence of work-related fatalities by at least 20% and to reduce the incidence of workplace injury (including musculoskeletal disorders) by at least 40% by 30 June 2012. Interim targets to be achieved by 30 June 2007 were to reduce fatalities by 10% and to reduce workplace injury by 20%.

Five year rolling average frequency rates are used throughout this report in order to reveal long term trends without undue influence from short term fluctuations.

NB Frequency Rates in this report are provided for the Coal, Metalliferous and Extractives sectors only, as hours worked cannot be reliably sourced for the Non-Coal Other and Petroleum (Onshore) sectors. Refer to the Definitions for details of Frequency Rates.

New Safe Work Australia Targets for 2022

The Australian Work Health and Safety Strategy 2012-2022 sets three targets to measure the progress towards achieving the vision of the Australian Strategy:

- a reduction of at least 20 per cent in the number of worker fatalities due to injury
- a reduction of at least 30 per cent in the incidence rate of claims resulting in one or more weeks off work (known as Serious Claims), and
- a reduction of at least 30 per cent in the incidence rate of claims for musculoskeletal disorders resulting in one or more weeks off work (Musculoskeletal Serious Claims).

The baseline for 20% reduction in Worker Fatalities will be the four year average for the calendar years 2009 to 2012, which was 268 fatalities nationally. A rolling three-year average will be used as the measure. The national target is 214.

There were five fatalities in this four-year period, setting the baseline for NSW Mining and Extractives as 1.25 fatalities per year. The 2022 target will be 1.0 fatalities per year.

The baselines for 30% reduction in Serious Claims and Musculoskeletal Serious Claims will be the three year average for the financial years 2009-10 to 2011-12.

Data for the Claims baselines will be provided by Safe Work Australia in late 2014.

More information is available at

<http://www.safeworkaustralia.gov.au/sites/swa/about/publications/pages/measuring-progress-towards-targets>

Progress towards achieving the targets within the NSW Mining and Extractives industry will be tracked in future *Mine Safety Performance Measures Reports*.

Fatalities

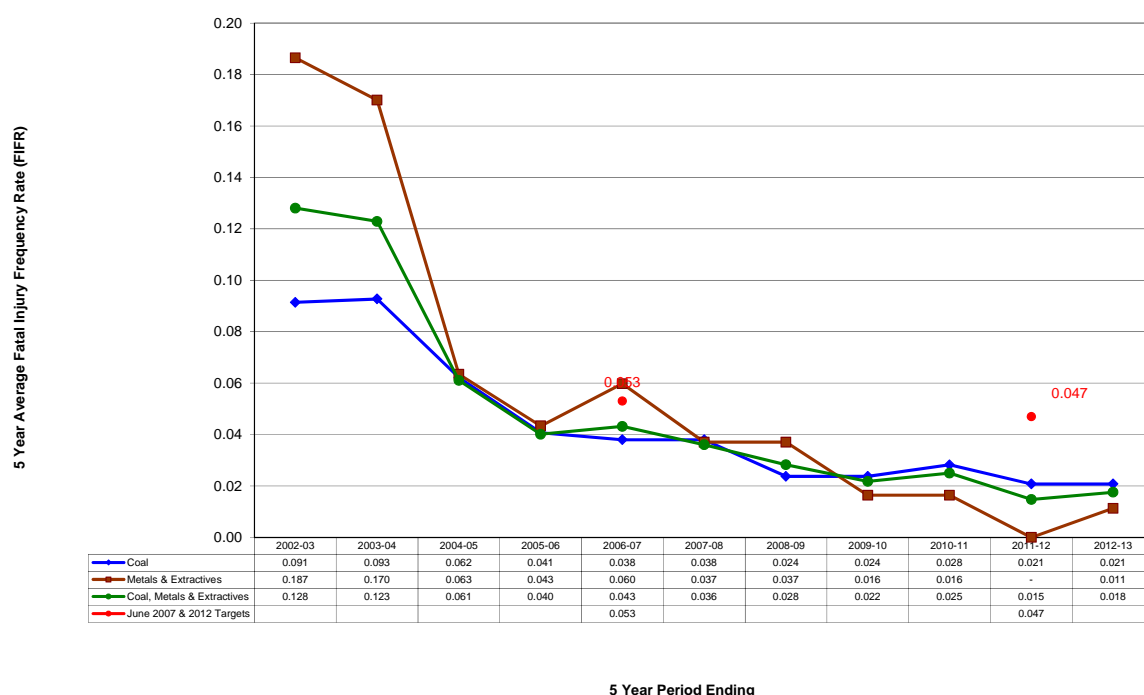
In 2012-13 there was one fatality in the Metalliferous underground sector and one fatality in the Opal underground sector, while the Coal, Extractives and Petroleum (Onshore) sectors were fatality free.

The fatality-reduction targets were defined as reducing the Coal, Metalliferous & Extractives Five Year Average Fatal Injury Frequency Rate (FIFR) to 0.053 by June 2007 and to 0.047 by June 2012 (number of fatal injuries per million hours worked).

The Five Year Average Fatal Injury Frequency Rate to June 2007 was 0.043. This achieved both the mid-term and the ten-year targets.

The Five Year Average Fatal Injury Frequency Rate to June 2013 was 0.018. This was an improvement of 50% compared to the 0.036 recorded for the five years to June 2008. The industry goal remains zero fatalities.

Figure 1
NSW Coal, Metalliferous & Extractives 5 Year Average Fatal Injury Frequency Rate (FIFR)
2002-03 to 2012-13
June 2012 National Target was 0.047



Lost Time Injuries

The overall Five Year Average Lost Time Injury Frequency Rate (LTIFR) to June 2013 reached a record low of 5.88 and was down 54.3% from the 12.86 recorded for the five years to June 2008.

The Five Year Average Lost Time Injury Frequency Rate to June 2013 in each of the Coal, Metalliferous and Extractives sectors was down from the rate for the five years to June 2008, and both the Coal and Metalliferous sectors recorded record lows.

However, the Extractives sector Lost Time Injury Frequency Rate (see Figure 4) has risen in each of the past four years, with the 11.59 recorded for the five years to June 2013 now 37.8% higher than the 8.41 recorded for the five years to June 2009.

Figure 2

NSW Coal, Metalliferous & Extractives 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13

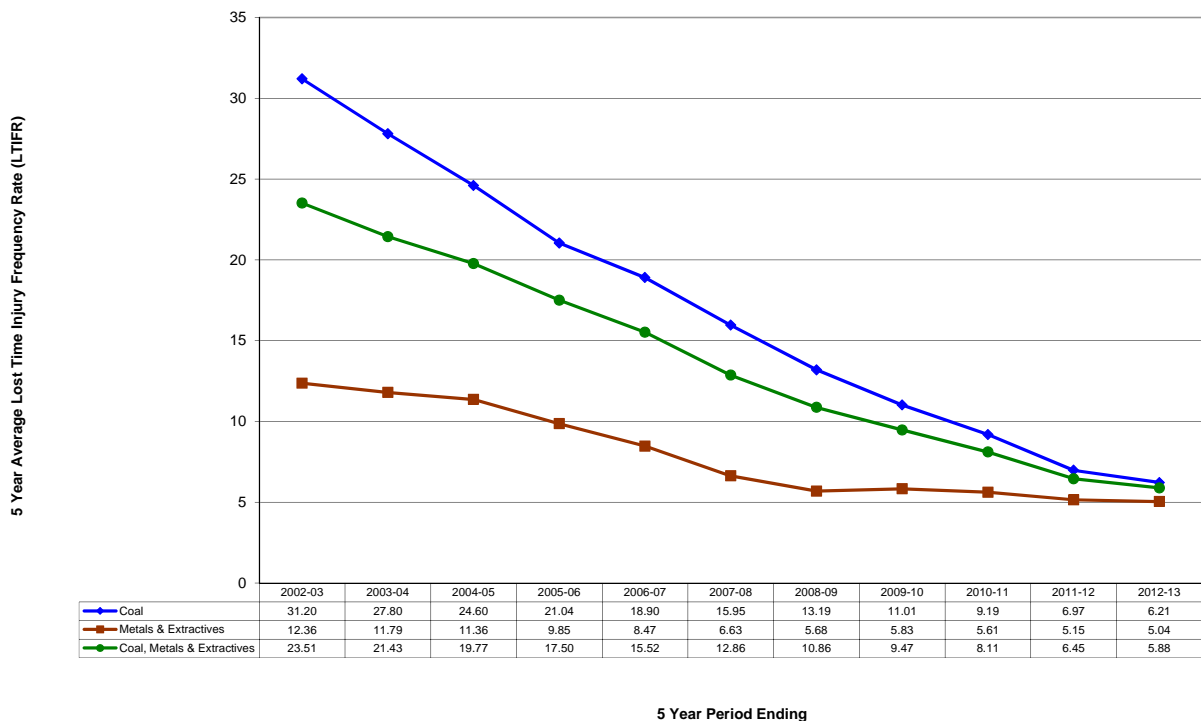
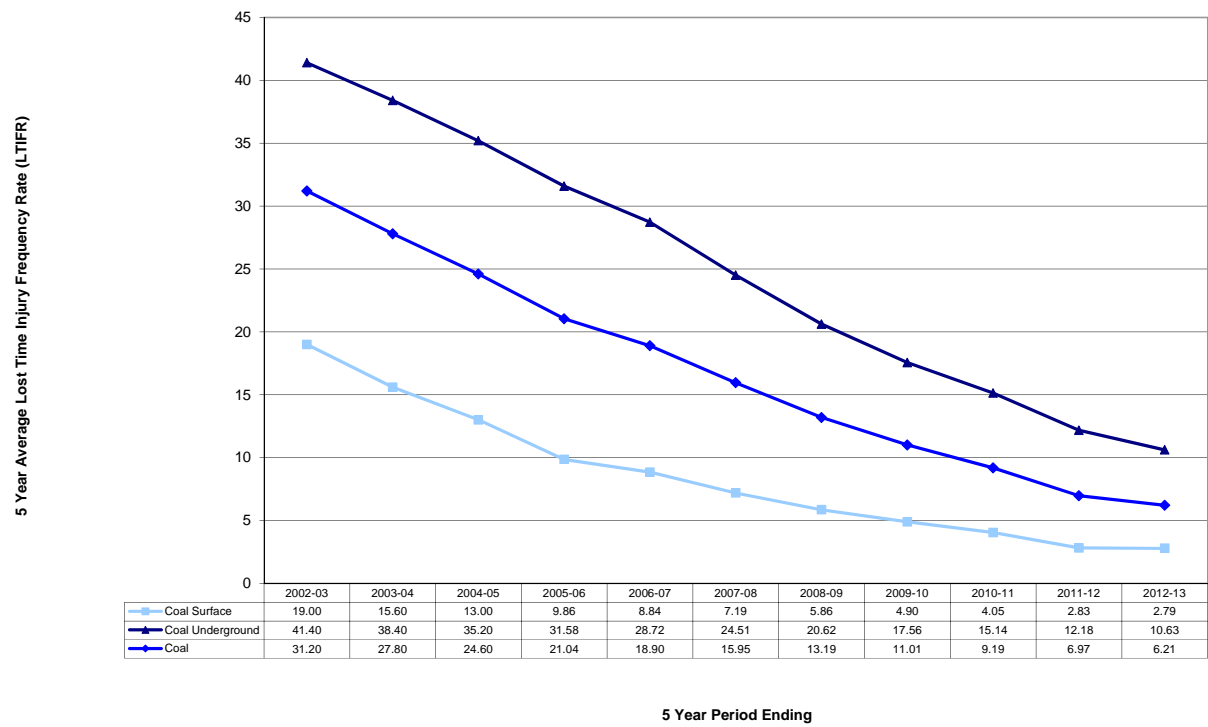
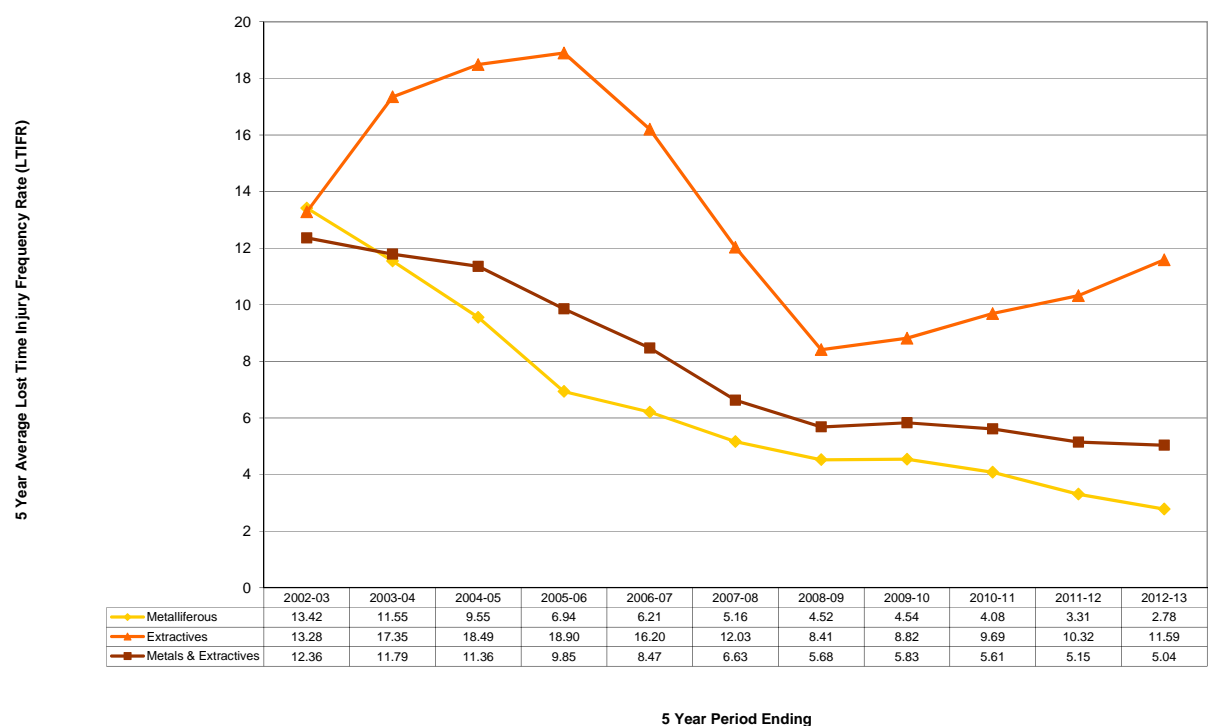


Figure 3
NSW Coal 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13



5 Year Period Ending

Figure 4
NSW Metalliferous and Extractives 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13



5 Year Period Ending

Serious Bodily Injuries

The overall Five Year Average Serious Bodily Injury Frequency Rate (SBIFR) June 2013 reached a record low of 0.65 and was down 55.2% from the 1.45 recorded for the five years to June 2008.

The Five Year Average Serious Bodily Injury Frequency Rate in each of the Coal, Metalliferous and Extractives sectors was down from the five years to June 2008.

Record lows were recorded in all sectors.

Figure 5

NSW Coal, Metalliferous & Extractives 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13

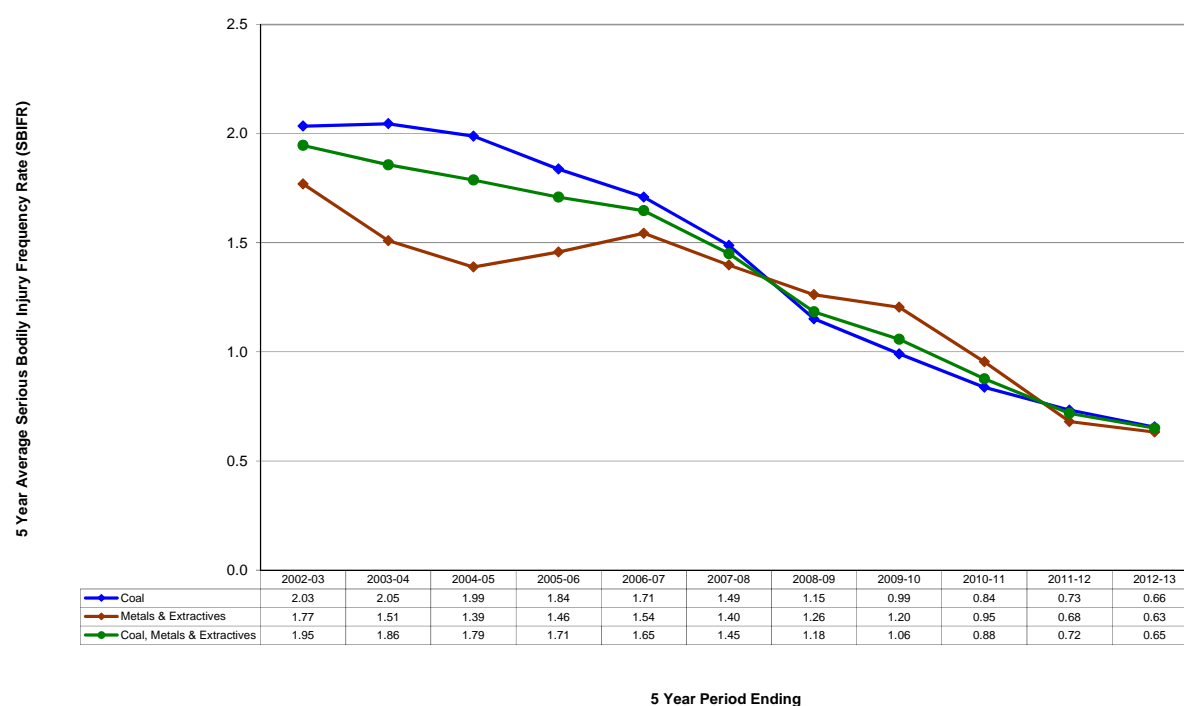


Figure 6
NSW Coal 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13

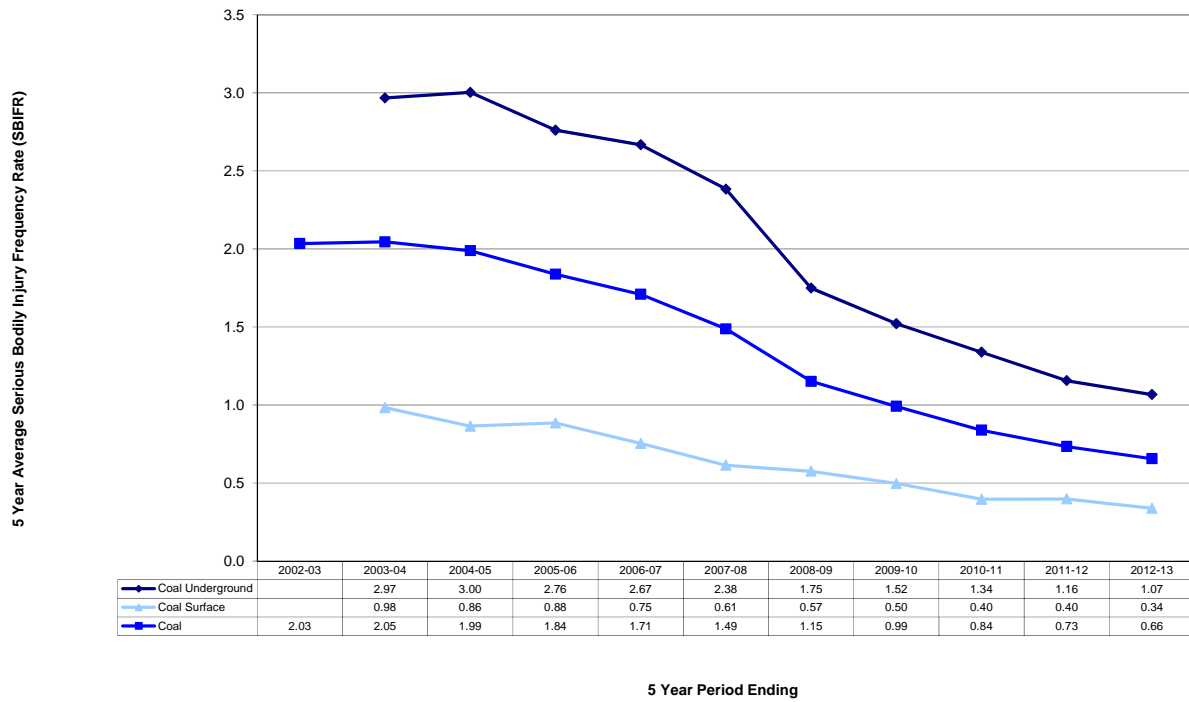
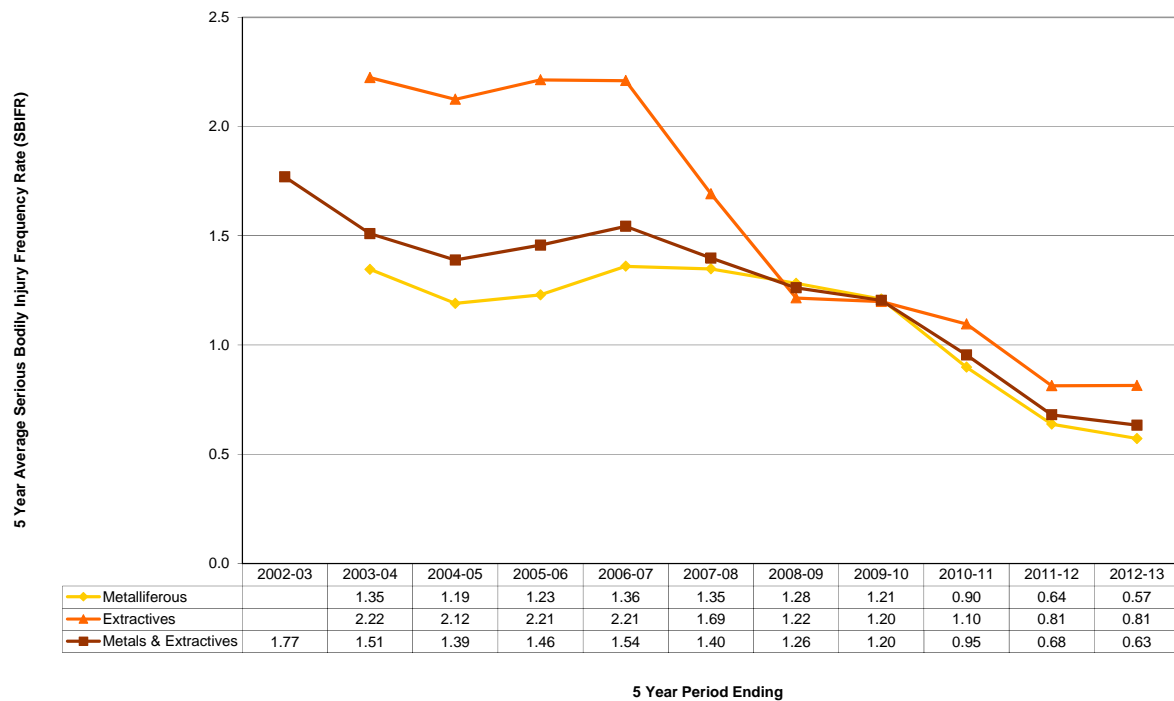


Figure 7
NSW Metalliferous and Extractives 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13



2 INTRODUCTION

Purpose

To report on incident and injury notifications by the NSW Mining and Extractives industry to NSW Trade & Investment.

Objectives

- To inform industry and stakeholders
- To identify trends and areas of safety concern
- To provide information for developing evidence based decision-making

About NSW Trade & Investment - Mine Safety

The NSW Department of Trade & Investment, Regional Infrastructure & Services (NSW Trade & Investment) is the statutory Workplace Health and Safety (WHS) regulator of the NSW Mining and Extractives industry.

The Department's Mine Safety Operations Branch and Mine Safety Performance Branch play a lead role in influencing change in industry health and safety culture through consultation, education, the development of competency standards, regulation of compliance of safety management systems, and the investigation of incidents. New legislation and the development of standards have established clear expectations of health and safety performance in the workplace. Safety in mining operations and the health of mine workers is of utmost priority for the NSW Government.

A major change program is being undertaken by the Department under the auspices of the Mine Safety Advisory Council for the industry to achieve significant improvements in OHS through a systematic performance based approach to managing risk. Industry has agreed that further WHS improvement will require WHS culture change to close an apparent disconnect between WHS management systems and actual behaviour at the site. Current projects being undertaken by the Mine Safety Advisory Council are addressing these issues to achieve the Council's vision of achieving World-leading WHS in the NSW mining and extractives industry.

The Department also operates the Mine Safety Technology Centre at Thornton in the Hunter Valley which provides commercial testing facilities for the mining industry and expertise on many critical aspects of health and safety in the mining industry.

Further information and resources are available from the websites:

- NSW Trade & Investment - Mine Safety
www.resources.nsw.gov.au/safety
- NSW Mine Safety Advisory Council
www.nswminesafety.com.au

The COMET Database

COMET (COmmon Mines EnvironmenT) is the database system which is used to record the day-to-day business activities of NSW Trade & Investment's Mine Safety Operations branch. The system is used by Mine Inspectors, Information Managers, Regional and Head Office Administrators and System Officers.

Information, notifications and correspondence about events involving mines and mining organisations in NSW are recorded in COMET.

Incident and injury data is captured, reported back to the inspectorate and analysed in depth to identify trends and areas of safety concern with the aim of developing evidence-based strategies to improve the safety performance of the NSW Mining and Extractives industry.

COMET is also used to track general Mine Safety Operations Branch activities such as certain training, meetings, industry workshops, assessments conducted and the issuing of Enforcement and Advice Notices.

Industry currently notifies workplace incidents and injuries, and NSW Trade & Investment issues Enforcement and Advice Notices in accordance with the following New South Wales legislation:

Mine Category	Legislation	Referred to as	Commencement
Coal	Coal Mines Health and Safety Act 2002	CMHSA 2002	23/12/2006
	Coal Mines Health and Safety Regulation 2006	CMHSR 2006	
Non-Coal	Mine Health and Safety Act 2004	MHSA 2004	01/09/2008
	Mine Health and Safety Regulation 2007	MHSR 2007	
Petroleum (Onshore)	Petroleum (Onshore) Schedule 1992	POSch 1992	08/1992
All	Explosives Act 2003	EXPLA 2003	01/09/2005
	Explosives Regulation 2005	EXPLR 2005	
	Work Health and Safety Act 2011	WHSA 2011	01/01/2012
	Work Health and Safety Regulation	WHSR 2011	

For further information refer to the Definitions and COMET Database Terms and Appendix B.9 for Sources of Data and further details of Incident Types, Serious Bodily Injury Types, Notifiable Injury Outcomes, Assessment Types and Enforcement Categories and relevant legislation.

3 MINES

3.1 Mines

This section reports the numbers of open, and intermittently open, mines that are overseen by NSW Trade & Investment Mine Safety, and recorded in the COMET database.

For administrative purposes, the number of small mines and quarries recorded in the COMET database may vary slightly from the actual number of operational small mines and quarries.

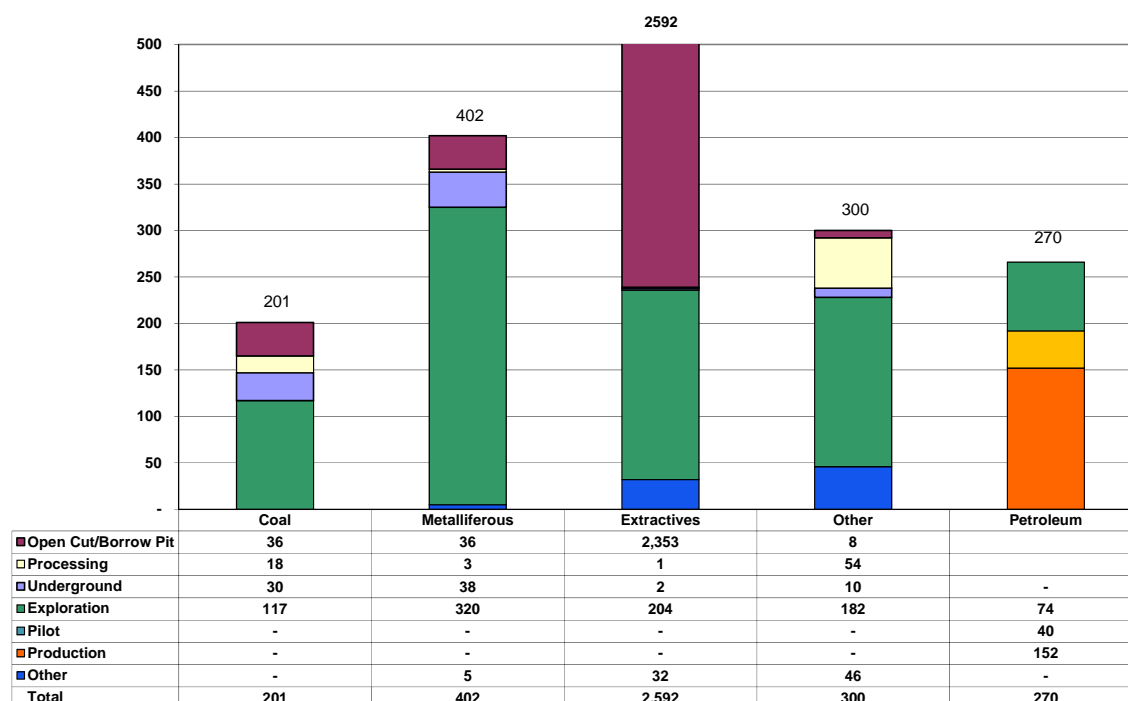
At June 2013 there were also approximately 3,500 opal claims, including 800 residential claims, registered in NSW, of which fewer than 1,000 are worked during a typical year. These are not included in the number of mines below.

Refer to Appendix B.1 for definitions of COMET Mine Types, Mining Sectors, and Mine Operation Types.

3.1.1 Number of Mines by Mining Sector and Mine Operation Type

Figure 8

Number of Mines by Mining Sector and Mine Operation Type 2012-13



Refer to Appendix B.1 for details of COMET Mine Types, Mining Sectors and Operation Types

Refer to Appendix A.10 for a more detailed breakdown of the number of Mines by Mining Sector, Mine Type and Mine Operation Type.

4 INCIDENTS

4.1 All Incidents

This section reports on the breakdown of incidents notified to NSW Trade & Investment in the Coal, Metalliferous, Extractives, Non-Coal Other and Petroleum (Onshore) mining sectors, including Complaints and High Potential incidents.

In 2012-13:

- The number of incidents notified was 5.7 times the average number of incidents notified for the five years (2001-02 to 2005-06) under the former legislation. This increase reflects the new and more inclusive reporting requirements of the current legislation.
- Just over two thirds of all incidents occurred in the coal underground sector.

Refer to the Definitions, COMET Database Terms and Appendix B for details of the classifications used and a comparison of incident and injury notification requirements under former and current legislation.

The commencement of new coal legislation in mid 2006-07 and new non-coal legislation in the second quarter of 2008-09 resulted in an increase in incident notifications due to some new and more inclusive reporting requirements.

The following key applies to incidents in Figures 10, 12, 13, 20, 21, 22 and 30:

New requirement	Increase in notifications resulting from new reporting requirements
More inclusive	Increase in notifications resulting from wider scope of reporting requirements
Same/Similar	Reporting requirements are unchanged or similar

Refer to Appendix B.6 for comparison of incident and injury notification requirements under former and current legislation

4.1.1 All Incidents by Sector

Figure 9

All Incidents by Sector 2002-03 to 2012-13

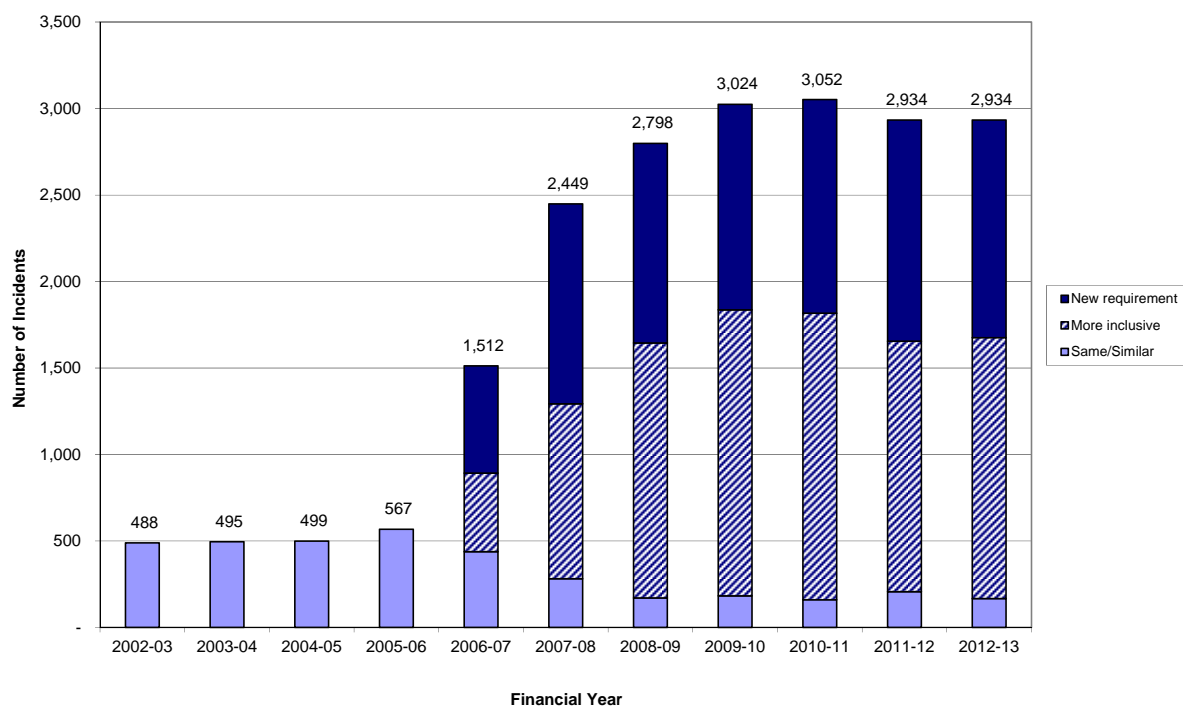
*NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09
"Unknown" refers to incidents reported by non-mine organisations*

Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Coal	252	279	266	339	1,283	2,249	2,568	2,742	2,767	2,625	2,612	17,982
Metalliferous	132	136	147	155	150	130	146	185	164	199	217	1,761
Extractives	97	72	83	68	71	64	74	79	108	105	101	922
Non-Coal Other	3	4	1	3	1	2	2	4	2	1	2	25
Petroleum (Onshore)	-	1	-	-	3	-	4	12	6	1	2	29
Unknown	4	3	2	2	4	4	4	2	5	3	-	33
Total	488	495	499	567	1,512	2,449	2,798	3,024	3,052	2,934	2,934	20,752

Figure 10

All Incidents 2002-03 to 2012-13

NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09



4.1.2 All Incidents by Operation Type

Figure 11

All Incidents by Surface / Underground Operation 2002-03 to 2012-13

NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09

"Unknown" refers to incidents reported by non-mine organisations, and therefore with no operation type.

Operation Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Underground	287	295	320	366	1,226	2,027	2,288	2,467	2,388	2,179	2,161	16,004
Surface	197	197	177	199	282	418	506	555	659	752	773	4,715
Unknown	4	3	2	2	4	4	4	2	5	3	-	33
Total	488	495	499	567	1,512	2,449	2,798	3,024	3,052	2,934	2,934	20,752

Figure 12

All Surface Incidents 2002-03 to 2012-13

NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09

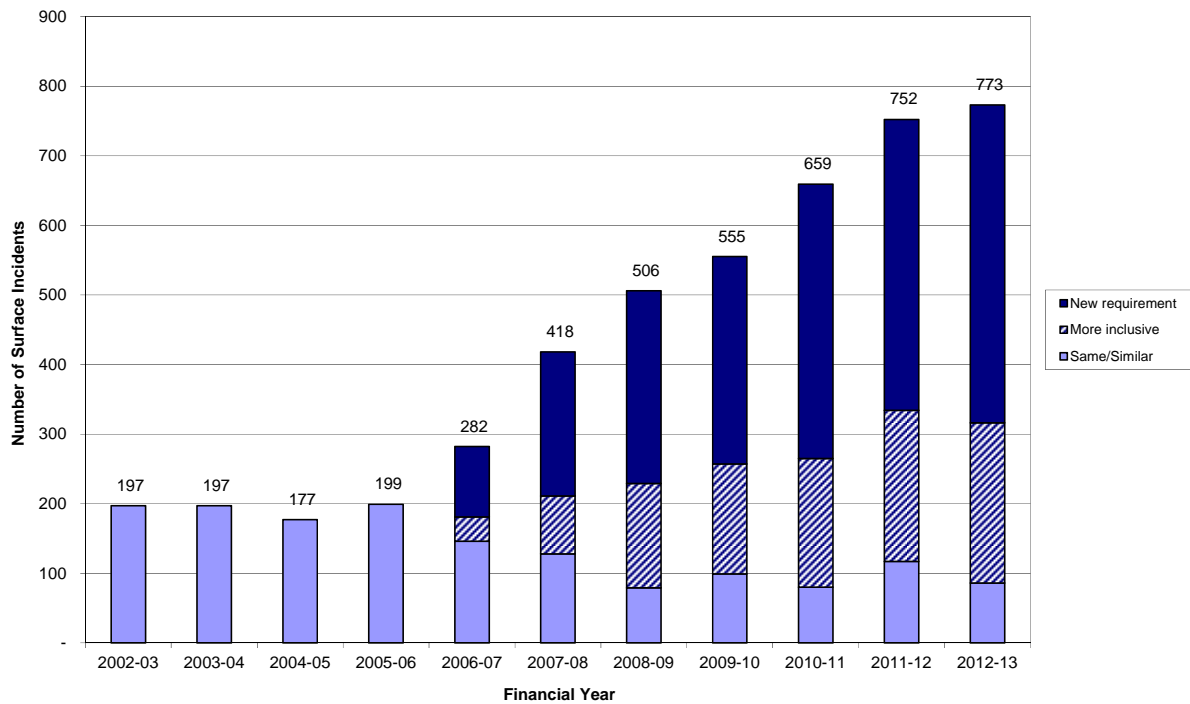
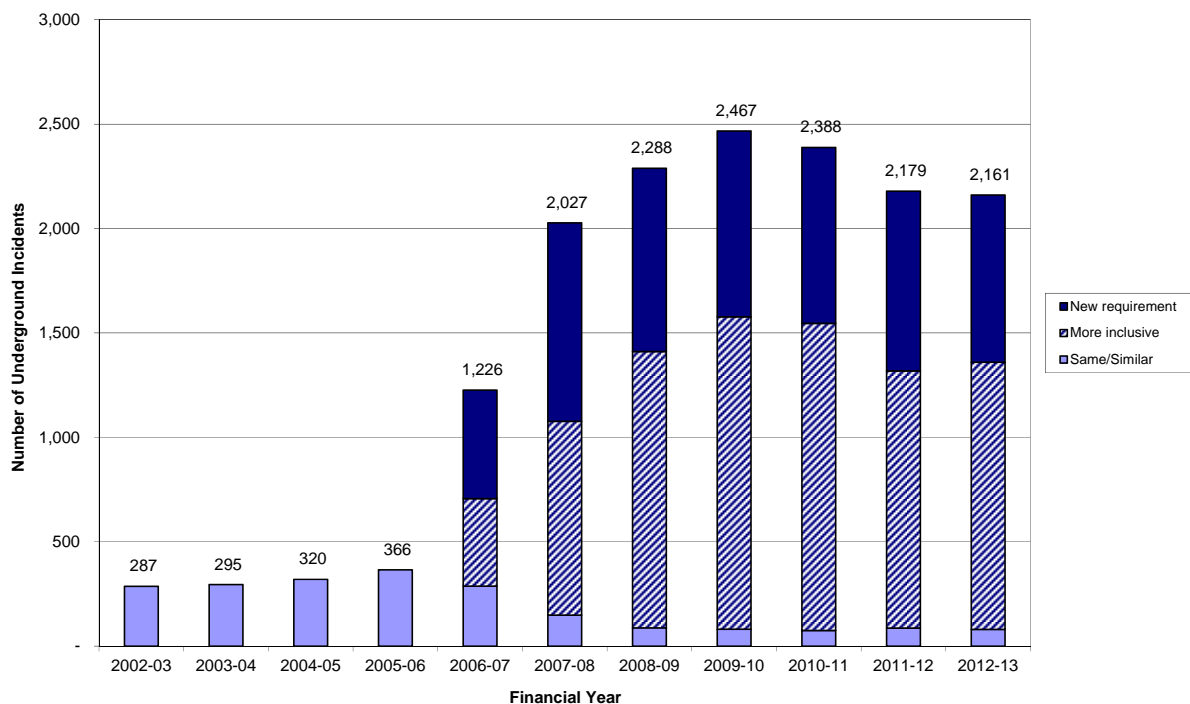


Figure 13

All Underground Incidents 2002-03 to 2012-13

NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09



4.1.3 All Incidents by Incident Investigation Level

Figure 14

All Incidents by Incident Investigation Level 2002-03 to 2012-13

NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09

Investigation Level	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Level 1 - No need to attend. Mine to investigate & report.	214	239	220	289	1,041	2,028	2,345	2,505	2,554	2,525	2,632	16,592
Level 2 - Official to attend mine.	68	68	88	216	464	415	444	516	495	407	298	3,479
Level 3 - Detailed investigation suitable for further action	35	35	17	5	7	6	9	3	3	2	4	126
No Data	171	153	174	57	-	-	-	-	-	-	-	555
Total	488	495	499	567	1,512	2,449	2,798	3,024	3,052	2,934	2,934	20,752

Figure 15

All Incidents by Incident Investigation Level 2002-03 to 2012-13

NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09

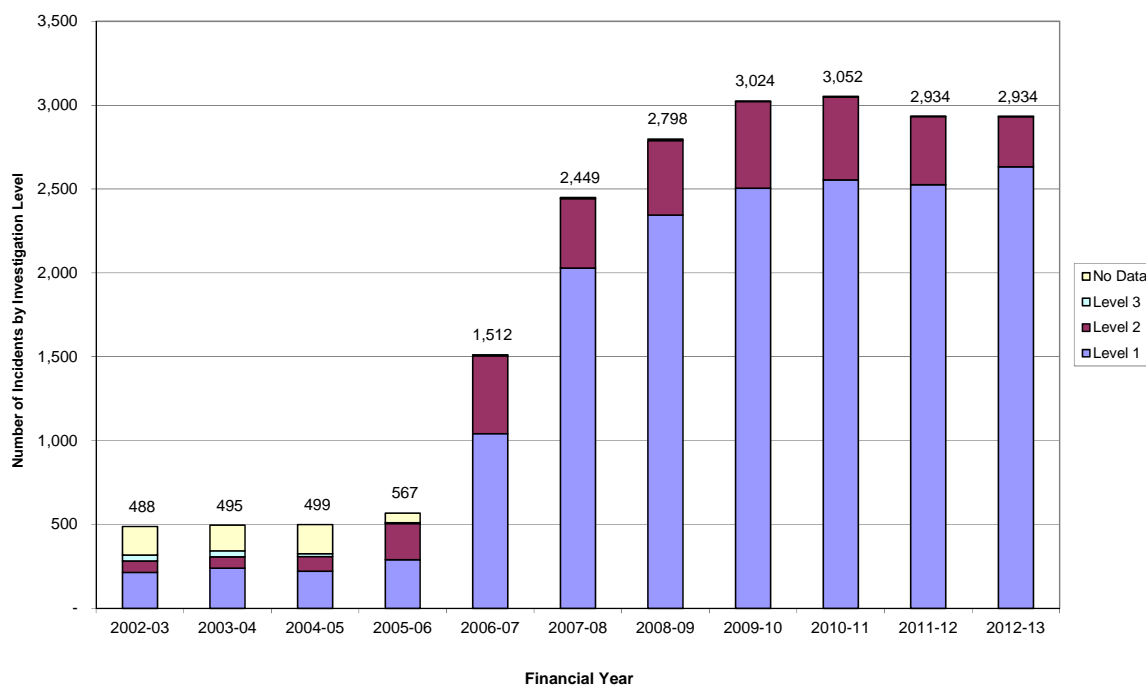
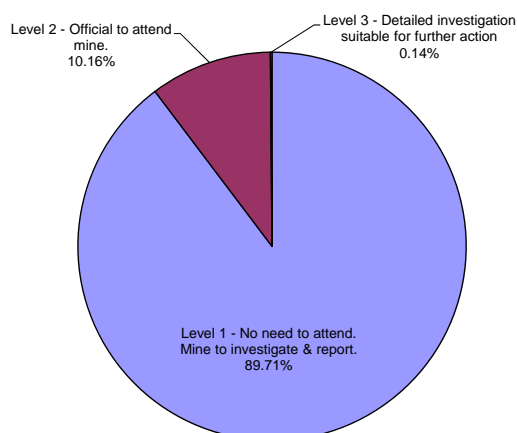


Figure 16

All Incidents by Incident Investigation Level 2012-13



4.1.4 All Incidents by Event Subtype

Figure 17

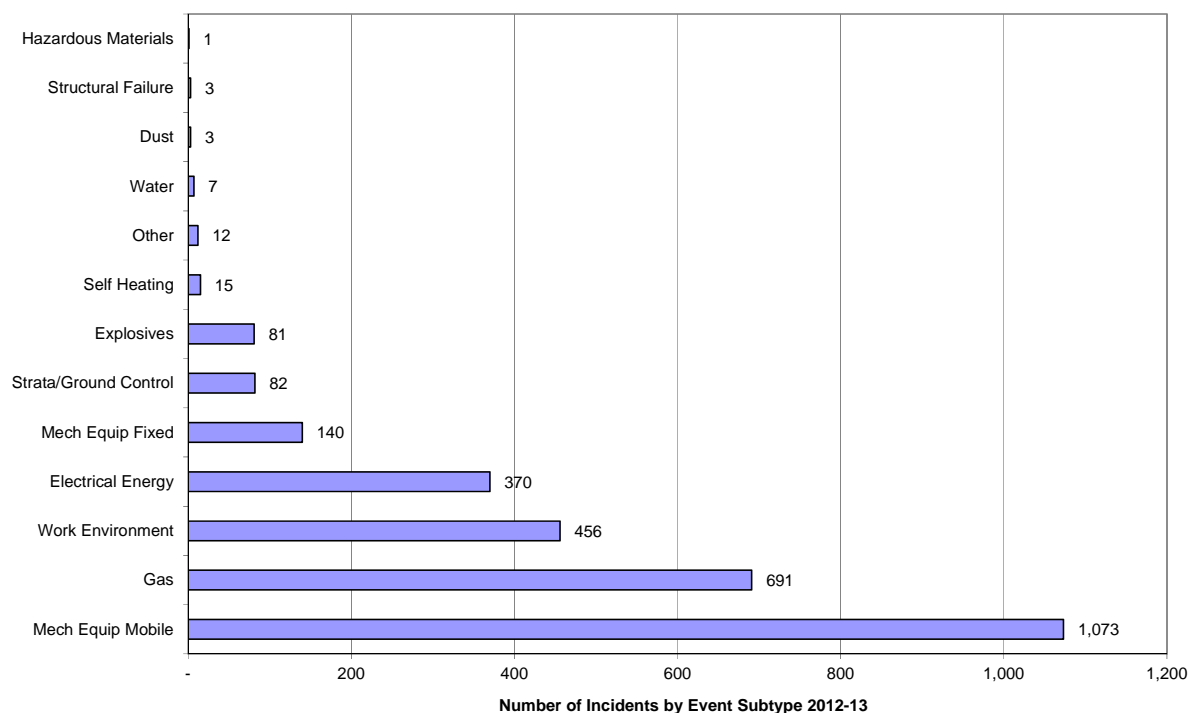
All Incidents by Event Subtype 2002-03 to 2012-13

NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Mech Equip Mobile	190	205	200	228	647	1,019	1,101	1,251	1,093	1,080	1,073	8,087
Gas	6	12	9	4	296	669	810	799	928	656	691	4,880
Work Environment	43	57	52	55	177	350	349	394	469	579	456	2,981
Electrical Energy	130	129	157	196	235	217	239	277	261	276	370	2,487
Mech Equip Fixed	43	32	25	26	46	64	160	160	136	166	140	998
Explosives	22	15	22	19	51	64	68	58	74	88	81	562
Strata/Ground Control	27	24	25	23	35	42	43	51	62	66	82	480
Structural Failure	5	8	5	7	10	11	9	11	6	2	3	77
Hazardous Materials	8	6	1	1	5	7	9	8	9	5	1	60
Self Heating	3	3	-	4	5	3	7	7	3	6	15	56
Water	7	2	2	4	4	3	1	5	9	8	7	52
Other	2	1	-	-	1	-	-	-	1	1	12	18
Dust	2	1	1	-	-	-	2	3	1	1	3	14
Total	488	495	499	567	1,512	2,449	2,798	3,024	3,052	2,934	2,934	20,752

Figure 18

All Incidents by Event Subtype 2012-13



4.2 Coal Incidents

The commencement of the current coal legislation (CMHSA 2002 and CMHSR 2006) in mid 2006-07 resulted in an increase in coal incident notifications compared to the former legislation, due to some new reporting requirements (including escape of fluid under pressure, unintended plant and vehicle movements and incidents with an injury that had a notifiable outcome) and more inclusive reporting requirements (including gas detection, evidence of electrical arcing, explosive misfires and failure of explosion-protection equipment).

In 2012-13:

- The number of coal incidents notified was nine times the average number of incidents notified for the last five years (2001-02 to 2005-06) under the former legislation. This increase reflects the new and more inclusive reporting requirements of the current legislation.
- Just over three quarters of all coal incidents occurred in underground operations.

Refer to the Definitions, COMET Database Terms and Appendix B for details of the classifications used and a comparison of incident and injury notification requirements under former and current legislation.

4.2.1 Coal Incidents by Operation Type

Figure 19

Coal Incidents by Operation Type 2002-03 to 2012-13
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

Operation Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Underground	181	190	207	244	1,110	1,931	2,181	2,338	2,265	2,025	1,980	14,652
Surface	71	89	59	95	173	318	387	404	502	600	632	3,330
Total	252	279	266	339	1,283	2,249	2,568	2,742	2,767	2,625	2,612	17,982

Figure 20

Coal Incidents 2002-03 to 2012-13
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

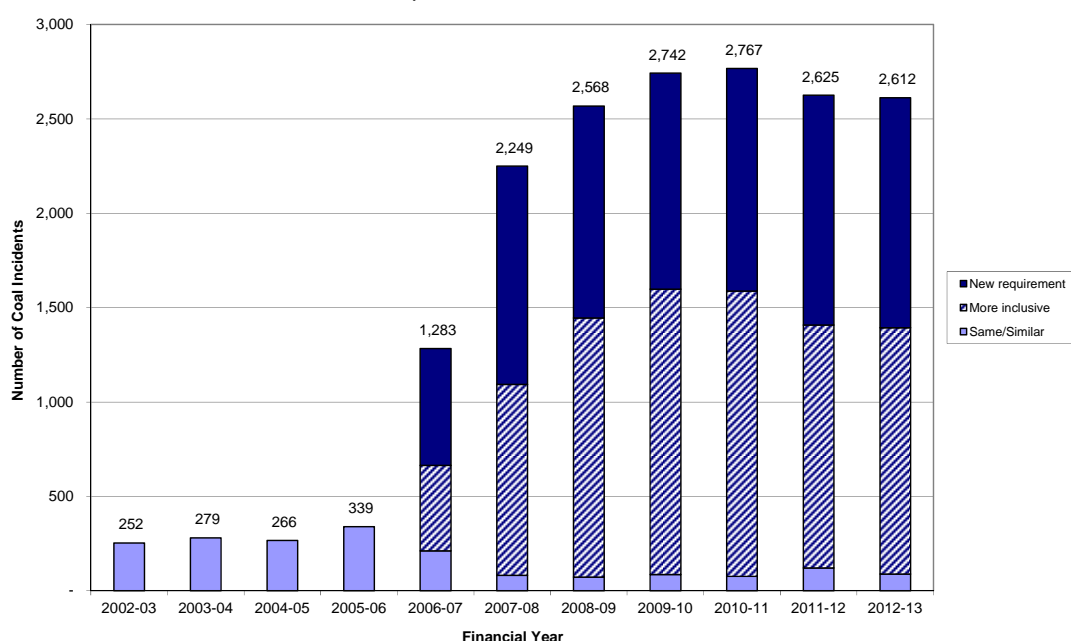


Figure 21
 Coal Surface Incidents 2002-03 to 2012-13
 NB Increase from mid 2006-07 due to requirements of CMHSR 2006

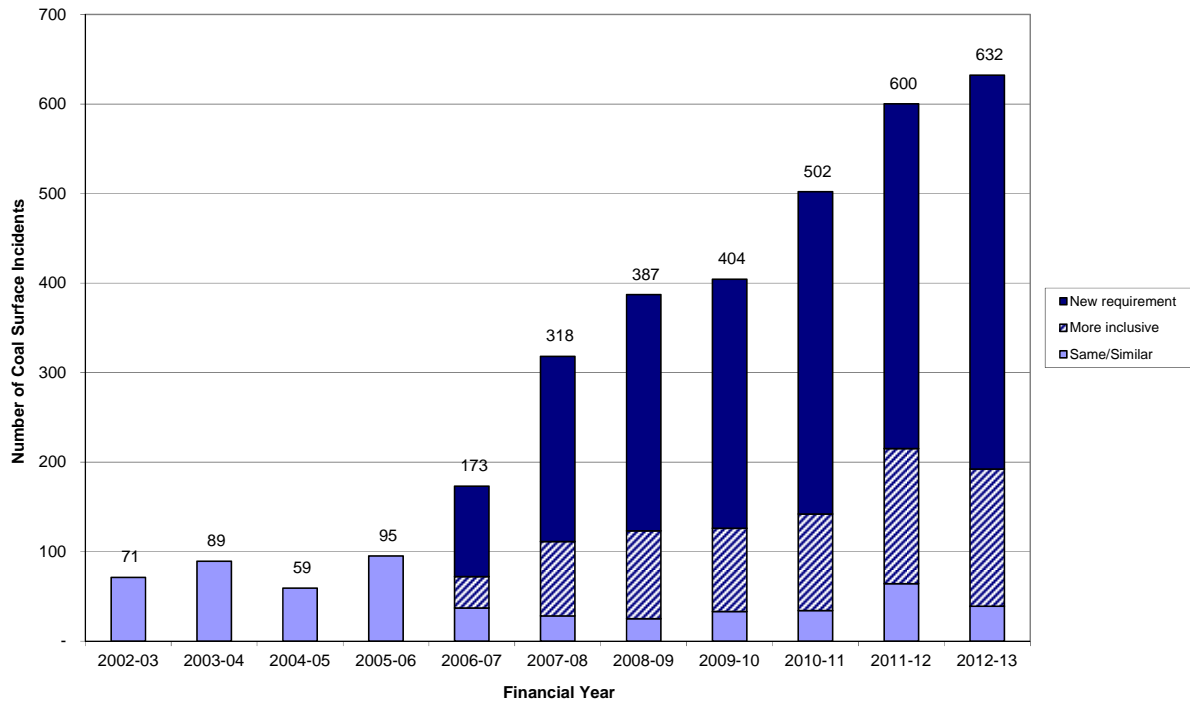
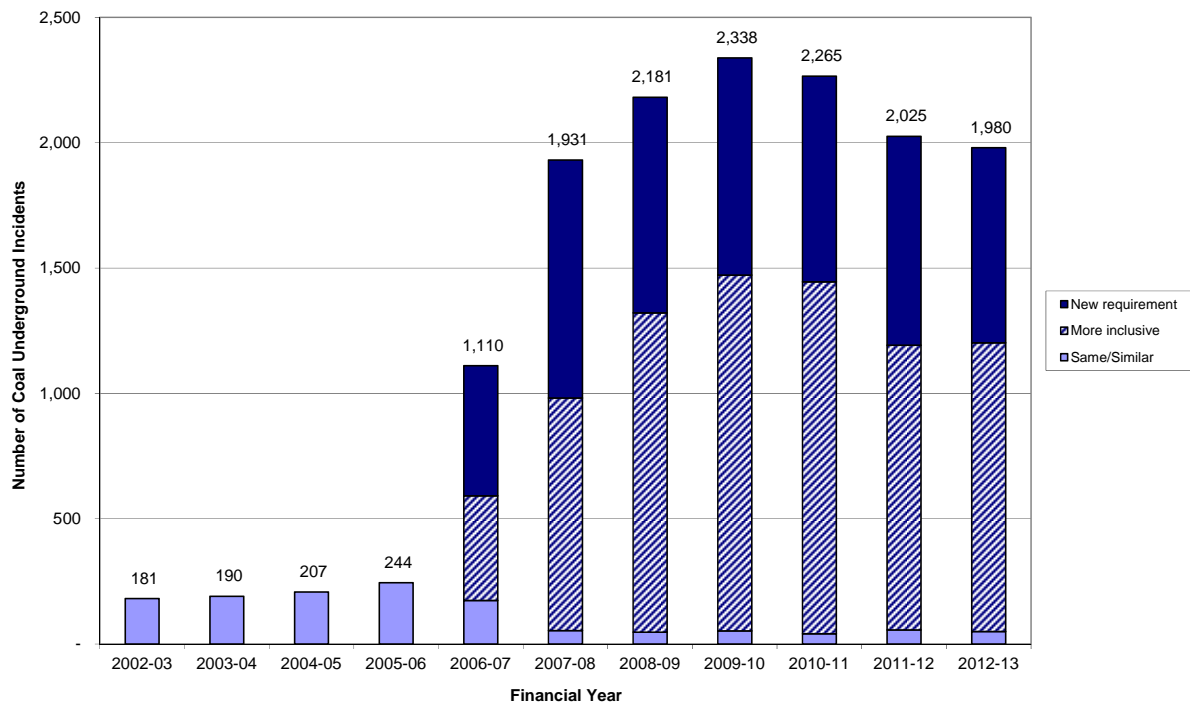


Figure 22
 Coal Underground Incidents 2002-03 to 2012-13
 NB Increase from mid 2006-07 due to requirements of CMHSR 2006



4.2.2 Coal Incidents by Incident Investigation Level

Figure 23

Coal Incidents by Incident Investigation Level 2002-03 to 2012-13
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

Investigation Level	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Level 1 - No need to attend. Mine to investigate & report.	138	159	146	154	919	1,925	2,224	2,342	2,387	2,346	2,444	15,184
Level 2 - Official to attend mine.	35	30	51	148	361	321	337	399	377	278	167	2,504
Level 3 - Detailed investigation suitable for further action	17	21	14	1	3	3	7	1	3	1	1	72
No Data	62	69	55	36	-	-	-	-	-	-	-	222
Total	252	279	266	339	1,283	2,249	2,568	2,742	2,767	2,625	2,612	17,982

Figure 24

Coal Incidents by Incident Investigation Level 2002-03 to 2012-13
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

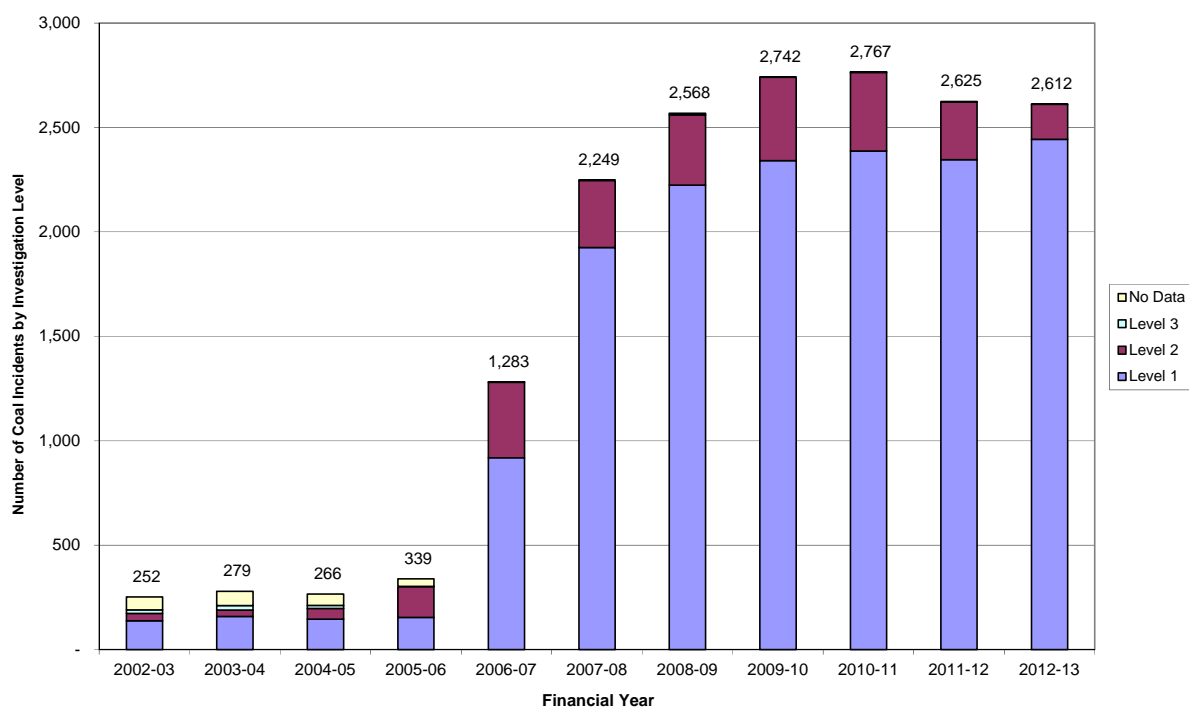
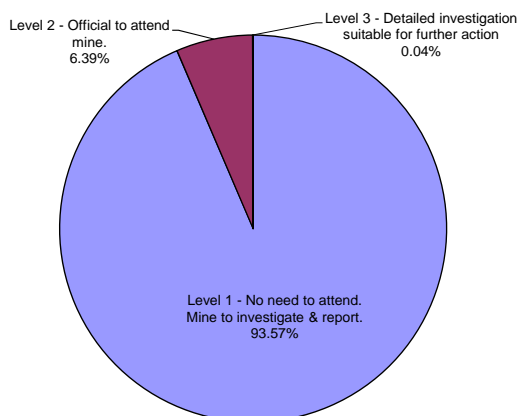


Figure 25

Coal Incidents by Incident Investigation Level 2012-13



4.2.3 Coal Incidents by Event Subtype

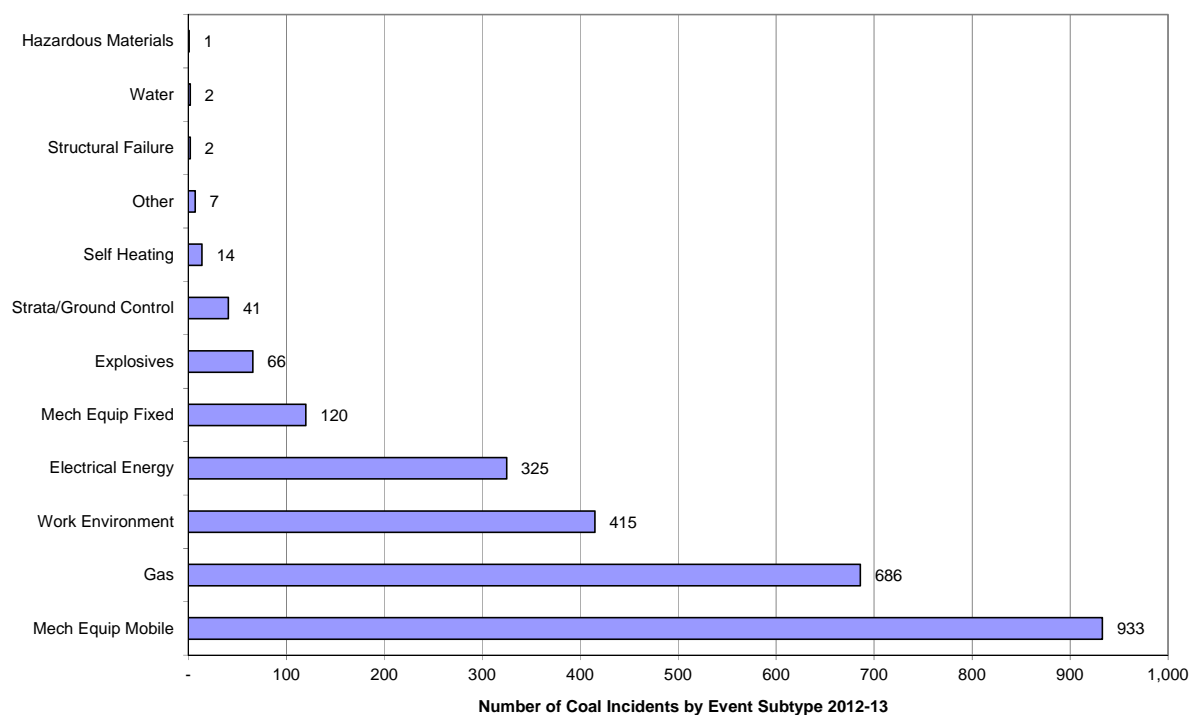
Figure 26

Coal Incidents by Event Subtype 2002-03 to 2012-13
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Mech Equip Mobile	94	113	96	116	538	938	983	1,122	965	923	933	6,821
Gas	5	11	7	4	294	665	810	799	927	652	686	4,860
Work Environment	17	22	18	21	136	308	312	333	405	524	415	2,511
Electrical Energy	84	91	116	166	200	187	212	241	231	235	325	2,088
Mech Equip Fixed	25	19	13	16	39	48	146	146	123	149	120	844
Explosives	2	2	4	-	30	55	55	49	64	79	66	406
Strata/Ground Control	12	14	9	10	28	30	33	31	37	47	41	292
Self Heating	3	2	-	4	4	2	5	5	3	6	14	48
Structural Failure	2	4	3	1	8	9	7	9	2	-	2	47
Hazardous Materials	5	-	-	-	4	6	3	5	6	5	1	35
Water	1	-	-	1	2	1	1	1	4	3	2	16
Other	1	-	-	-	-	-	-	-	-	1	7	9
Dust	1	1	-	-	-	-	1	1	-	1	-	5
Total	252	279	266	339	1,283	2,249	2,568	2,742	2,767	2,625	2,612	17,982

Figure 27

Coal Incidents by Event Subtype 2012-13
NB Increase from mid 2006-07 due to requirements of CMHSR 2006



4.2.4 Coal Incidents by Incident Type

Figure 28

Coal Incidents by Incident Type 2002-03 to 2012-13.

NB Increase from mid 2006-07 due to requirements of CMHSR 2006

Legislation Category	Incident Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
*CMRA	*1984 Dangerous Occurrence O/C	-	-	-	-	-	-	-	-	-	-	-	-
	Serious Bodily Injury CMRA	20	14	-	-	-	-	-	-	-	-	-	34
	*1984 Dangerous Occurrence U/G	-	-	-	-	-	-	-	-	-	-	-	-
	*Fatality	-	1	-	-	-	-	-	-	-	-	-	1
	Total	20	15	-	-	-	-	-	-	-	-	-	35
*CMGNR	Non Spec Acc Ending in Fat/Injury	19	32	29	29	33	-	-	-	-	-	-	142
	Notifiable Incidents DCCP CMGNR 1999, CI 83	9	8	8	15	5	-	-	-	-	-	-	45
	Total	28	40	37	44	38	-	-	-	-	-	-	187
*CMOCR	Notifiable Incidents CMOCR 1999, CI 16	40	64	39	67	12	-	-	-	-	-	-	222
	Total	40	64	39	67	12	-	-	-	-	-	-	222
*CMUGR	Other Notifiable Incidents CMUGR 1999 CI 34B	12	47	97	116	59	-	-	-	-	-	-	331
	Dangerous Occurrences CMUGR 1999, CI 34(1)	61	39	30	22	12	-	-	-	-	-	-	164
	Incidents CMUGR 1999, CI 34 (2) Repealed 4/7/2003	54	12	-	-	-	-	-	-	-	-	-	66
	Notifiable Incidents CMUGR 1999 CI 34A	1	38	38	76	43	-	-	-	-	-	-	196
	Total	128	136	165	214	114	-	-	-	-	-	-	757
CMHS	CMHSR 2006 CI 56(1)	-	-	-	-	789	1,547	1,877	2,015	2,037	1,823	1,885	11,973
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	215	484	437	434	433	480	403	2,886
	CMHSR 2006 CI 55	-	-	-	-	102	204	247	280	284	305	310	1,732
	CMHSR 2006 CI 57	-	-	-	-	-	-	1	5	4	6	4	20
	Total	-	-	-	-	1,106	2,235	2,562	2,734	2,758	2,614	2,602	16,611
Explosives	Explosives Regulation 2005	-	-	-	-	1	-	-	-	-	1	1	3
	Total	-	-	-	-	1	-	-	-	-	1	1	3
N/A	High Potential Incident	18	23	24	12	12	12	5	8	8	9	8	139
	Unknown	17	-	-	-	-	-	-	-	-	-	-	17
	Complaint	-	1	1	2	-	2	1	-	1	-	-	8
	Other	1	-	-	-	-	-	-	-	-	1	1	3
	Total	36	24	25	14	12	14	6	8	9	10	9	167
Total	252	279	266	339	1,283	2,249	2,568	2,742	2,767	2,625	2,612	17,982	

Refer to Appendix A.1 for a more detailed breakdown of Coal Surface and Underground Incidents by Incident Type and Subtype.

4.3 Non-Coal Incidents

The commencement of the current non-coal legislation (MHSA 2004 and MHSR 2007) in the second quarter of 2008-09 resulted in some new and more inclusive reporting requirements.

In 2012-13:

- The number of metalliferous and extractives incidents was 47.5% higher than the average notified for the last five years (2003-04 to 2007-08) under the former legislation. This increase reflects the new and more inclusive reporting requirements of the current legislation.

Refer to the Definitions, COMET Database Terms and Appendix B for details of the classifications used and a comparison of incident and injury notification requirements under former and current legislation.

4.3.1 Non-Coal Incidents by Operation Type

Figure 29

Non-Coal Incidents by Operation Type 2002-03 to 2012-13

NB Increase from Q2 2008-09 due to requirements of MHSR 2007

Operation Type	Mine Category	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Surface	Metalliferous	26	34	39	39	35	36	41	61	44	48	43	446
	Extractives	97	71	78	62	70	62	73	77	106	102	96	894
	Non-Coal Other	3	2	1	3	1	2	1	1	1	1	-	16
	Total	126	107	118	104	106	100	115	139	151	151	139	1,356
Underground	Metalliferous	106	102	108	116	115	94	105	124	120	151	174	1,315
	Extractives	-	1	5	6	1	2	1	2	2	3	5	28
	Non-Coal Other	-	2	-	-	-	-	1	3	1	-	2	9
	Total	106	105	113	122	116	96	107	129	123	154	181	1,352
Total	232	212	231	226	222	196	222	268	274	305	320	2,708	

Figure 30

Non-Coal Incidents 2002-03 to 2012-13

NB Increase from Q2 2008-09 due to requirements of MHSR 2007

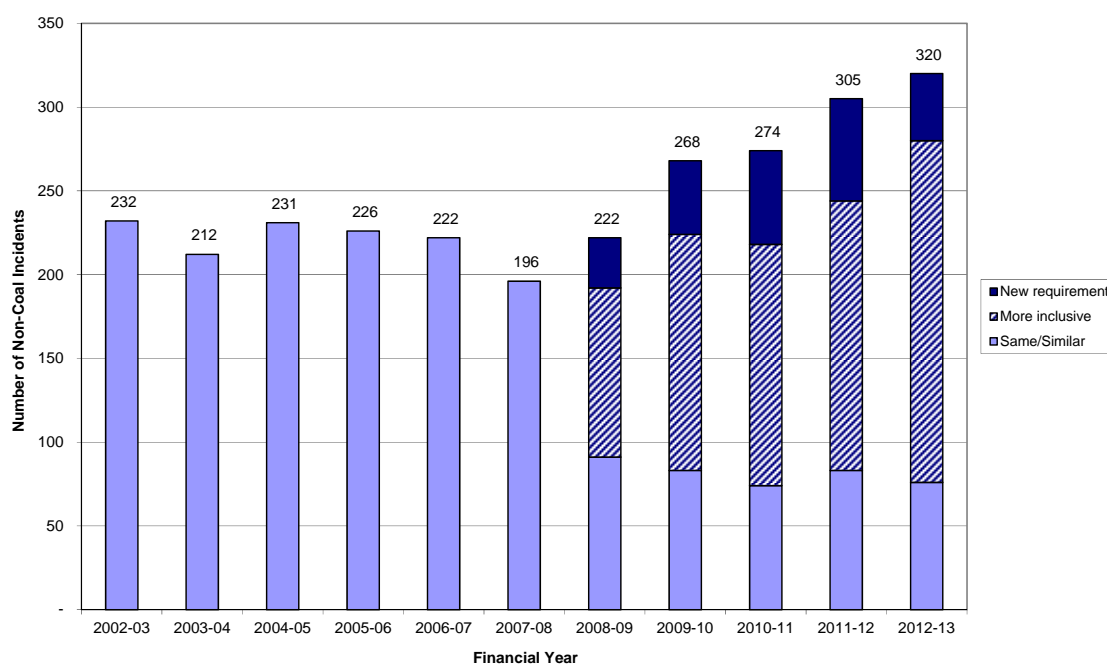


Figure 31
 Non-Coal Surface Incidents 2002-03 to 2012-13
 NB Increase from Q2 2008-09 due to requirements of MHSR 2007

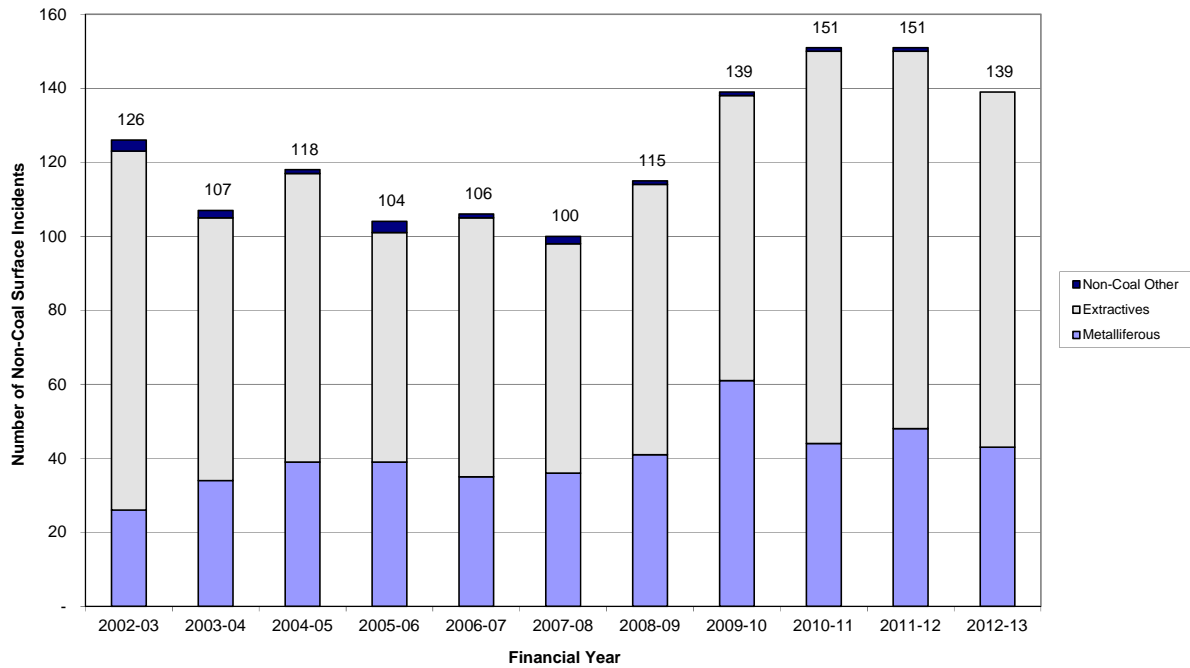
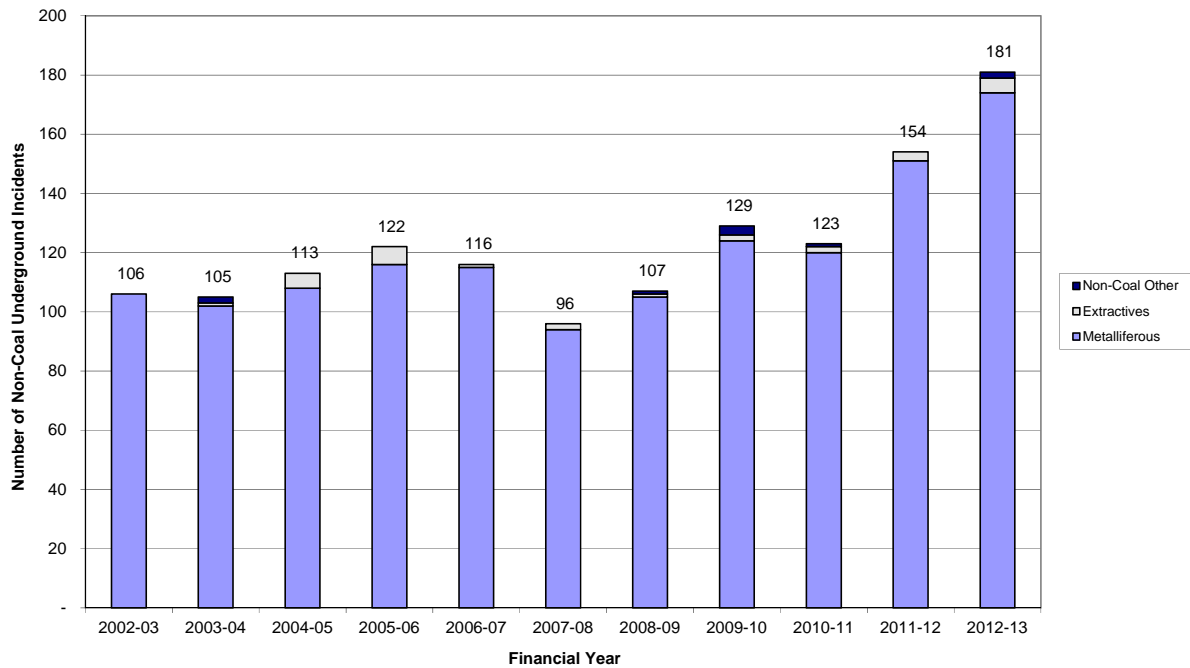


Figure 32
 Non-Coal Underground Incidents 2002-03 to 2012-13
 NB Increase from Q2 2008-09 due to requirements of MHSR 2007



4.3.2 Non-Coal Metalliferous Incidents by Incident Investigation Level

Figure 33

Non-Coal Metalliferous Incidents by Incident Investigation Level 2002-03 to 2012-13
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

Investigation Level	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Level 1 - No need to attend. Mine to investigate & report.	37	49	44	99	82	69	88	115	104	121	123	931
Level 2 - Official to attend mine.	17	21	17	45	65	59	56	69	60	77	93	579
Level 3 - Detailed investigation suitable for further action	11	8	2	1	3	2	2	1	-	1	1	32
No Data	67	58	84	10	-	-	-	-	-	-	-	219
Total	132	136	147	155	150	130	146	185	164	199	217	1,761

Figure 34

Non-Coal Metalliferous Incidents by Incident Investigation Level 2002-03 to 2012-13
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

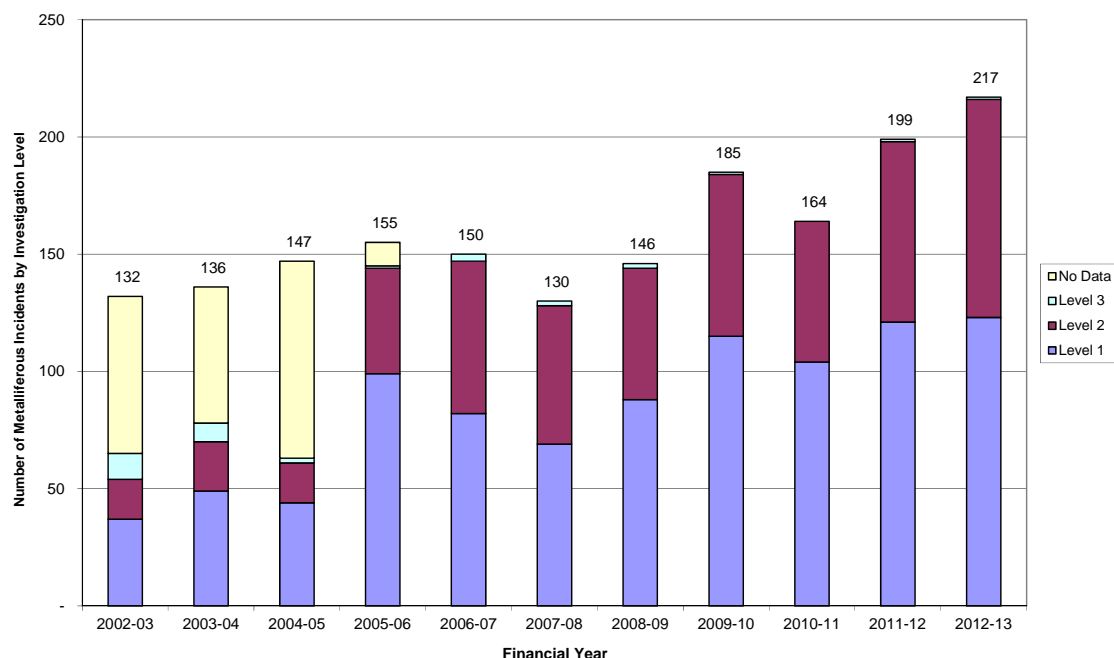
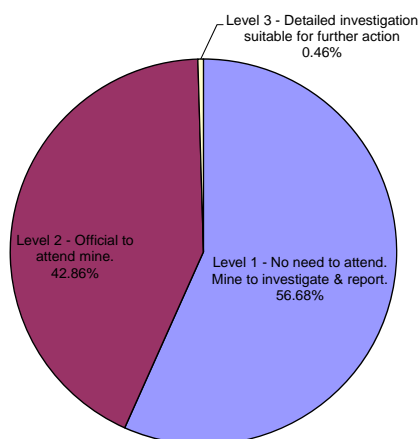


Figure 35

Non-Coal Metalliferous Incidents by Incident Investigation Level 2012-13



4.3.3 Non-Coal Metalliferous Incidents by Event Subtype

Figure 36

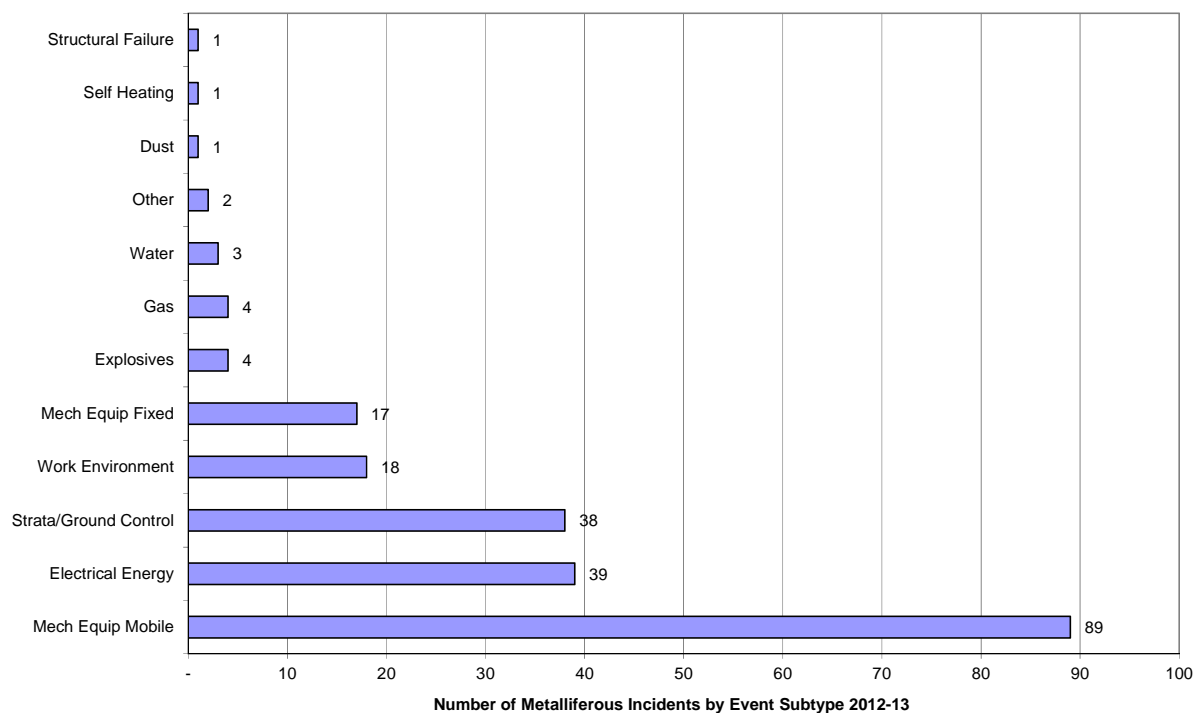
Non-Coal Metalliferous Incidents by Event Subtype 2002-03 to 2012-13

NB Increase from Q2 2008-09 due to requirements of MHSR 2007

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Mech Equip Mobile	56	58	67	87	76	51	80	86	81	105	89	836
Electrical Energy	28	26	31	23	27	22	17	23	21	32	39	289
Work Environment	10	23	18	17	24	24	20	34	23	25	18	236
Strata/Ground Control	14	9	13	10	7	10	7	16	22	16	38	162
Mech Equip Fixed	9	6	10	8	3	11	8	10	5	11	17	98
Explosives	2	4	2	2	5	4	5	6	4	3	4	41
Water	5	2	2	3	2	2	-	3	2	1	3	25
Structural Failure	3	1	2	4	2	2	2	1	3	2	1	23
Hazardous Materials	3	5	-	1	1	-	5	3	3	-	-	21
Gas	1	1	2	-	2	4	-	-	-	4	4	18
Self Heating	-	1	-	-	1	-	2	2	-	-	1	7
Dust	1	-	-	-	-	-	-	1	-	-	1	3
Other	-	-	-	-	-	-	-	-	-	-	2	2
Total	132	136	147	155	150	130	146	185	164	199	217	1,761

Figure 37

Non-Coal Metalliferous Incidents by Event Subtype 2012-13



4.3.4 Non-Coal Metalliferous Incidents by Incident Type

Figure 38

Non-Coal Metalliferous Incidents by Incident Type 2002-03 to 2012-13

NB Increase from Q2 2008-09 due to requirements of MHSR 2007

Legislation Category	Incident Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
*MIA	Dangerous Incident	65	73	70	88	63	39	4	-	-	-	-	402
	*Pre Sept 2000 Dangerous Incident MIA	1	-	-	-	-	-	-	-	-	-	-	1
	Non Spec Acc Ending in Fat/Injury	1	4	4	11	19	9	4	-	-	-	-	52
	*1994 Emergency MIA	-	-	-	-	-	-	-	-	-	-	-	-
	*Serious Injury MIA	3	8	-	-	-	-	-	-	-	-	-	11
	*Minor Accident MIA	4	-	-	-	-	-	-	-	-	-	-	4
	*Fatality	1	-	-	-	-	-	-	-	-	-	-	1
	Total	75	85	74	99	82	48	8	-	-	-	-	471
Explosives	Explosives Regulation 2005	-	-	-	-	2	-	-	-	1	2	1	6
	Total	-	-	-	-	2	-	-	-	1	2	1	6
MHS	MHSR 2007 Ci 145	-	-	-	-	-	-	91	137	121	164	185	698
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	10	20	23	23	17	93
	MHSR 2007 Ci 146(1)	-	-	-	-	-	-	-	1	-	-	4	5
	Total	-	-	-	-	-	-	101	158	144	187	206	796
N/A	High Potential Incident	50	38	62	45	60	71	28	13	12	5	3	387
	Complaint	3	13	11	11	6	11	9	14	7	4	6	95
	UNKNOWN	2	-	-	-	-	-	-	-	-	-	-	2
	Other	2	-	-	-	-	-	-	-	-	1	1	4
	Total	57	51	73	56	66	82	37	27	19	10	10	488
Total	132	136	147	155	150	130	146	185	164	199	217	1,761	

Refer to Appendix A.1 for a more detailed breakdown of Non-Coal Metalliferous Surface and Underground Incidents by Incident Type and Subtype.

4.3.5 Non-Coal Extractives Incidents by Incident Investigation Level

Figure 39

Non-Coal Extractives Incidents by Incident Investigation Level 2002-03 to 2012-13
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

Investigation Level	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Level 1 - No need to attend. Mine to investigate & report.	39	29	30	35	33	32	29	41	61	55	64	448
Level 2 - Official to attend mine.	16	15	20	21	37	31	45	38	47	50	36	356
Level 3 - Detailed investigation suitable for further action	5	6	1	1	1	1	-	-	-	-	1	16
No Data	37	22	32	11	-	-	-	-	-	-	-	102
Total	97	72	83	68	71	64	74	79	108	105	101	922

Figure 40

Non-Coal Extractives Incidents by Incident Investigation Level 2002-03 to 2012-13
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

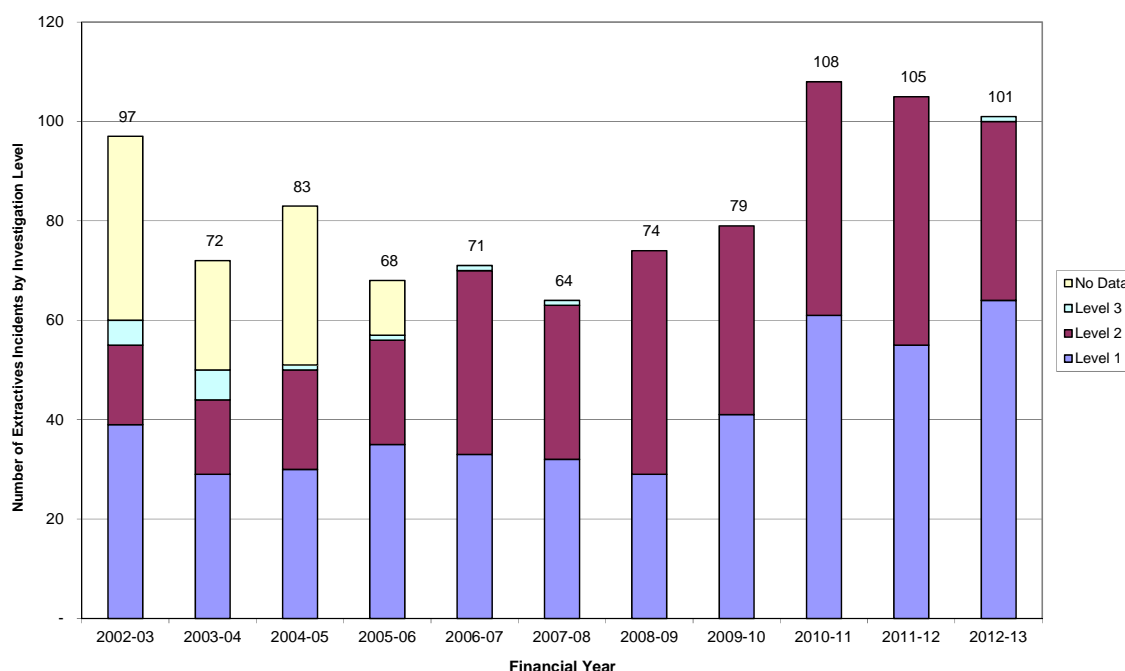
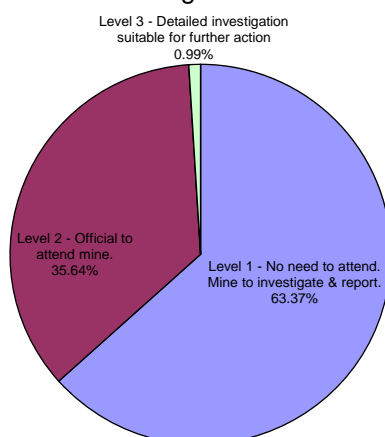


Figure 41

Non-Coal Extractives Incidents by Incident Investigation Level 2012-13



4.3.6 Non-Coal Extractives Incidents by Event Subtype

Figure 42

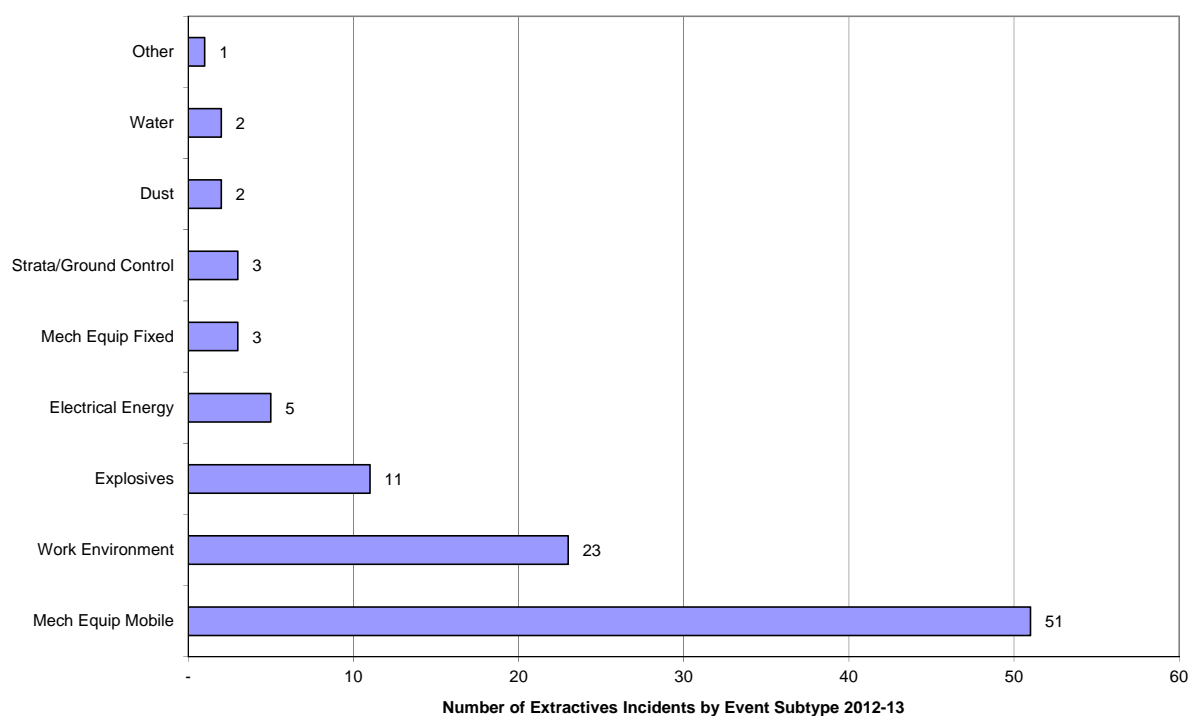
Non-Coal Extractives Incidents by Event Subtype 2002-03 to 2012-13

NB Increase from Q2 2008-09 due to requirements of MHSR 2007

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Mech Equip Mobile	38	29	37	25	28	29	33	33	40	50	51	393
Work Environment	16	11	14	14	14	14	15	25	40	28	23	214
Explosives	18	9	16	17	16	5	7	2	6	6	11	113
Electrical Energy	15	12	10	7	8	8	10	13	8	8	5	104
Mech Equip Fixed	8	7	2	2	4	4	5	2	6	6	3	49
Strata/Ground Control	1	1	2	2	-	2	2	2	2	3	3	20
Water	-	-	-	-	-	-	-	1	3	4	2	10
Dust	-	-	1	-	-	-	1	1	-	-	2	5
Other	1	1	-	-	1	-	-	-	1	-	1	5
Hazardous Materials	-	1	1	-	-	1	1	-	-	-	-	4
Structural Failure	-	1	-	1	-	-	-	-	1	-	-	3
Gas	-	-	-	-	-	-	-	-	1	-	-	1
Self Heating	-	-	-	-	-	1	-	-	-	-	-	1
Total	97	72	83	68	71	64	74	79	108	105	101	922

Figure 43

Non-Coal Extractives Incidents by Event Subtype 2012-13



4.3.7 Non-Coal Extractives Incidents by Incident Type

Figure 44

Non-Coal Extractives Incidents by Incident Type 2002-03 to 2012-13

NB Increase from Q2 2008-09 due to requirements of MHSR 2007

Legislation Category	Incident Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
*MIA	Dangerous Incident	28	23	24	22	18	18	2	-	-	-	-	135
	Non Spec Acc Ending in Fat/Injury	1	4	1	3	10	4	-	-	-	-	-	23
	*1994 Emergency MIA	-	-	-	-	-	-	-	-	-	-	-	-
	*Pre Sept 2000 Dangerous Incident MIA	-	-	-	-	-	-	-	-	-	-	-	-
	*Serious Injury MIA	4	3	-	-	-	-	-	-	-	-	-	7
	*Minor Accident MIA	4	-	-	-	-	-	-	-	-	-	-	4
	Total	37	30	25	25	28	22	2	-	-	-	-	169
Explosives	Explosives Regulation 2005	-	-	-	1	1	-	-	-	-	-	1	3
	Total	-	-	-	1	1	-	-	-	-	-	1	3
MHS	MHSR 2007 CI 145	-	-	-	-	-	-	37	41	57	57	60	252
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	7	10	23	19	12	71
	MHSR 2007 CI 146(1)	-	-	-	-	-	-	2	2	2	4	8	18
	Total	-	-	-	-	-	-	46	53	82	80	80	341
N/A	High Potential Incident	40	30	40	29	27	33	15	8	11	9	9	251
	Complaint	16	11	18	13	14	9	11	18	14	16	10	150
	Unknown	3	-	-	-	-	-	-	-	-	-	-	3
	Other	1	1	-	-	1	-	-	-	1	-	1	5
	Total	60	42	58	42	42	42	26	26	26	25	20	409
Total	97	72	83	68	71	64	74	79	108	105	101	922	

Refer to Appendix A.1 for a more detailed breakdown of Non-Coal Extractives Surface and Underground Incidents by Incident Type and Subtype.

4.3.8 Non-Coal Other Incidents by Incident Investigation Level

Figure 45

Non-Coal Other Incidents by Incident Investigation Level 2002-03 to 2012-13
 NB MHSR 2007 commenced Q2 2008-09

Investigation Level	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Level 1 - No need to attend. Mine to investigate & report.	-	1	-	-	1	-	2	2	1	1	1	9
Level 2 - Official to attend mine.	-	1	-	1	-	2	-	2	1	-	-	7
Level 3 - Detailed investigation suitable for further action	1	-	-	2	-	-	-	-	-	-	1	4
No Data	2	2	1	-	-	-	-	-	-	-	-	5
Total	3	4	1	3	1	2	2	4	2	1	2	25

Figure 46

Non-Coal Other Incidents by Incident Investigation Level 2002-03 to 2012-13
 NB MHSR 2007 commenced Q2 2008-09

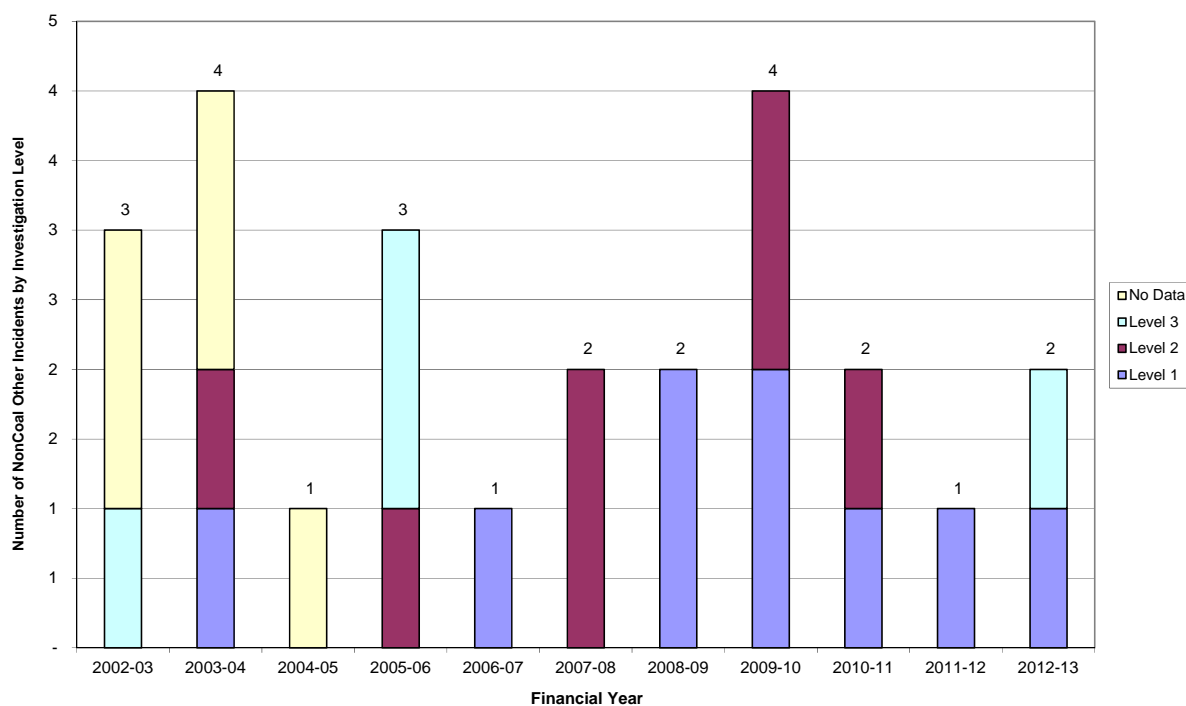
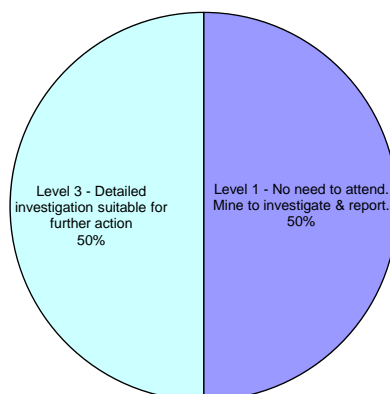


Figure 47

Non-Coal Other Incidents by Incident Investigation Level 2012-13



4.3.9 Non-Coal Other Incidents by Event Subtype

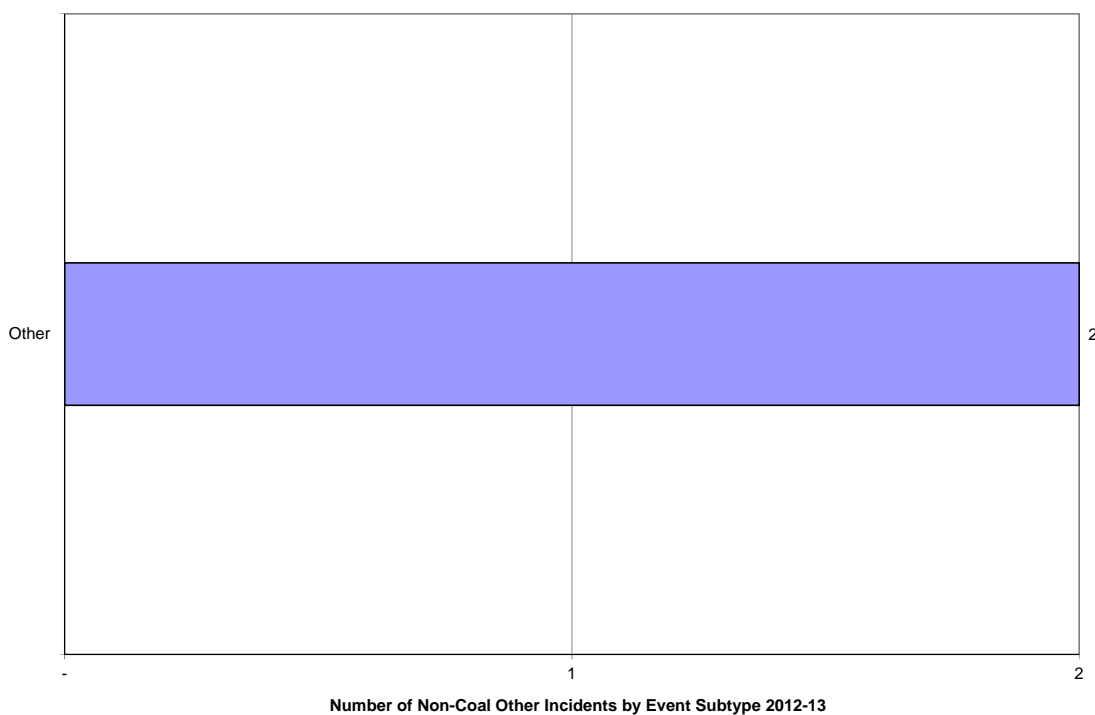
Figure 48

Non-Coal Other Incidents by Event Subtype 2002-03 to 2012-13
NB MHSR 2007 commenced Q2 2008-09

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Mech Equip Mobile	1	2	-	-	1	-	-	-	1	1	-	6
Work Environment	-	1	-	2	-	1	1	1	-	-	-	6
Strata/Ground Control	-	-	1	-	-	-	1	2	-	-	-	4
Mech Equip Fixed	1	-	-	-	-	1	-	-	1	-	-	3
Structural Failure	-	1	-	1	-	-	-	1	-	-	-	3
Other	-	-	-	-	-	-	-	-	-	-	2	2
Water	1	-	-	-	-	-	-	-	-	-	-	1
Total	3	4	1	3	1	2	2	4	2	1	2	25

Figure 49

Non-Coal Other Incidents by Event Subtype 2012-13



4.3.10 Non-Coal Other Incidents by Incident Type

Figure 50

Non-Coal Other Incidents by Incident Type 2002-03 to 2012-13

NB MHSR 2007 commenced Q2 2008-09

Legislation Category	Incident Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
*MIA	Dangerous Incident	1	1	1	1	1	1	-	-	-	-	-	6
	Non Spec Acc Ending in Fat/Injury	-	2	-	-	-	-	-	-	-	-	-	2
	*1994 Emergency MIA	-	-	-	-	-	-	-	-	-	-	-	-
	*Minor Accident MIA	1	-	-	-	-	-	-	-	-	-	-	1
	*Pre Sept 2000 Dangerous Incident MIA	-	-	-	-	-	-	-	-	-	-	-	-
	Total	2	3	1	1	1	1	1	-	-	-	-	-
MHS	MHSR 2007 Cl 145	-	-	-	-	-	-	1	2	1	-	-	4
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	1	-	-	-	1	2
	Total	-	-	-	-	-	-	2	2	1	-	1	6
N/A	High Potential Incident	1	-	-	2	-	1	-	1	-	1	-	6
	Complaint	-	1	-	-	-	-	-	-	1	-	1	3
	Unknown	-	-	-	-	-	-	-	-	-	-	-	-
	Other	-	-	-	-	-	-	-	1	-	-	-	1
	Total	1	1	-	2	-	1	-	2	1	1	1	10
Total	3	4	1	3	1	2	2	4	2	1	2	25	

Refer to Appendix A.1 for a more detailed breakdown of Non-Coal Other Incidents by Incident Type and Subtype.

4.4 Petroleum (Onshore) Incidents

Petroleum incidents and injuries notified under the Petroleum (Onshore) Schedule 1992 and recorded in the COMET database appear below.

Note that prior to 2012 and the introduction of the Work Health and Safety Act 2011, reportable incidents that were notified to the WorkCover Authority and not also notified to NSW Trade & Investment, do not appear in the COMET safety statistics.

Also, several factors have affected petroleum operations in NSW in the past three years including the NSW Government imposed moratoria on fracking, granting of exploration licences and renewals of existing exploration licences. In addition, the level of coal seam gas exploration has slowed down in response to the drafting and delay in the implementation of the Strategic Regional Land Use Policy. This reduced activity is reflected in the safety statistics.

4.4.1 Petroleum (Onshore) Incidents by Incident Investigation Level

Figure 51

Petroleum (Onshore) Incidents by Incident Investigation Level 2002-03 to 2012-13

Investigation Level	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Level 1 - No need to attend. Mine to investigate & report.	-	-	-	-	3	-	-	5	1	-	-	9
Level 2 - Official to attend mine.	-	-	-	-	-	-	4	6	5	1	2	18
Level 3 - Detailed investigation suitable for further action	-	-	-	-	-	-	-	1	-	-	-	1
No Data	-	1	-	-	-	-	-	-	-	-	-	1
Total	-	1	-	-	3	-	4	12	6	1	2	29

Figure 52
Petroleum (Onshore) Incidents by Incident Investigation Level 2002-03 to 2012-13

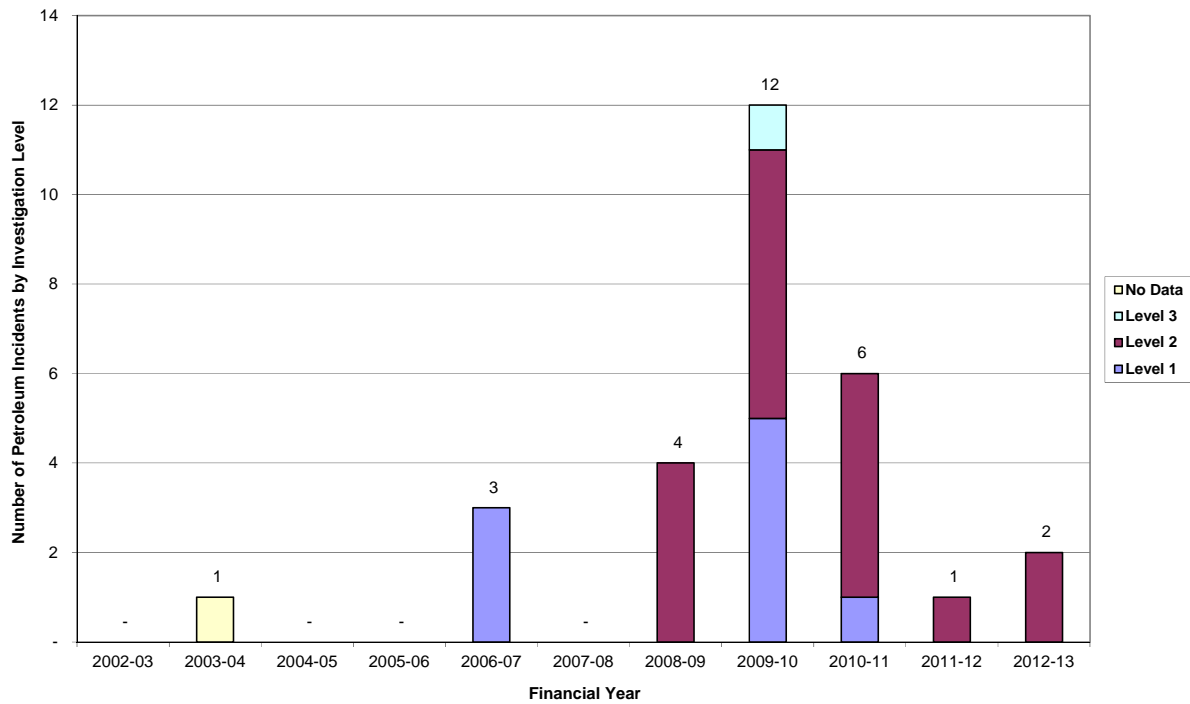
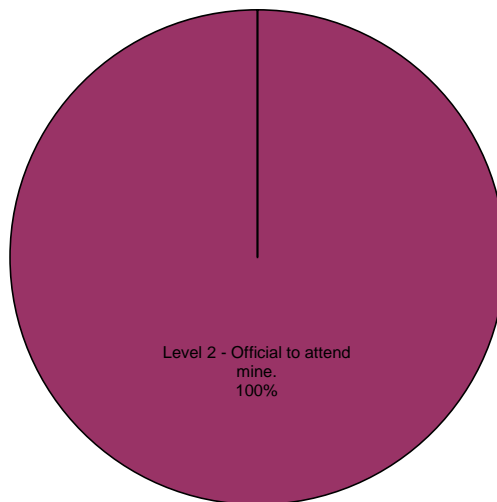


Figure 53
Petroleum (Onshore) Incidents by Incident Investigation Level 2012-13

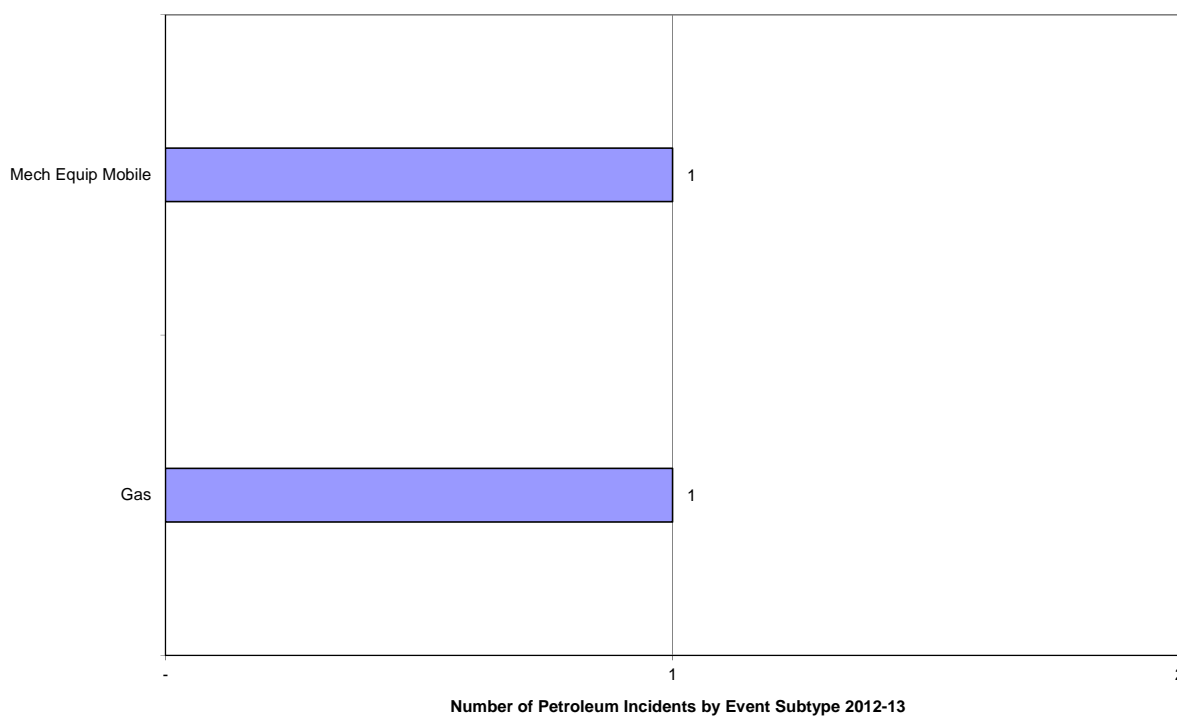


4.4.2 Petroleum (Onshore) Incidents by Event Subtype

Figure 54
Petroleum Incidents by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Mech Equip Mobile	-	1	-	-	2	-	3	10	4	1	1	22
Mech Equip Fixed	-	-	-	-	-	-	1	2	1	-	-	4
Electrical Energy	-	-	-	-	-	-	-	-	1	-	-	1
Gas	-	-	-	-	-	-	-	-	-	-	1	1
Work Environment	-	-	-	-	1	-	-	-	-	-	-	1
Total	-	1	-	-	3	-	4	12	6	1	2	29

Figure 55
Petroleum Incidents by Event Subtype 2012-13



4.4.3 Petroleum (Onshore) Incidents by Incident Type

Figure 56
Petroleum (Onshore) Incidents by Incident Type 2002-03 to 2012-13

Legislation Category	Incident Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
POSch	POSch 1992	-	1	-	-	3	-	4	12	6	1	1	28
N/A	Complaint	-	-	-	-	-	-	-	-	-	-	1	1
Total		-	1	-	-	3	-	4	12	6	1	2	29

Refer to Appendix A.1 for a more detailed breakdown of Petroleum (Onshore) Incidents by Incident Type and Subtype.

4.5 High Potential Incidents

This section provides a breakdown of near misses and other events which may have had the potential to cause damage or injury and were notified to NSW Trade & Investment, but where the relevant legislation did not require their notification.

4.5.1 High Potential Incidents by Sector

Figure 57

High Potential Incidents by Sector 2002-03 to 2012-13

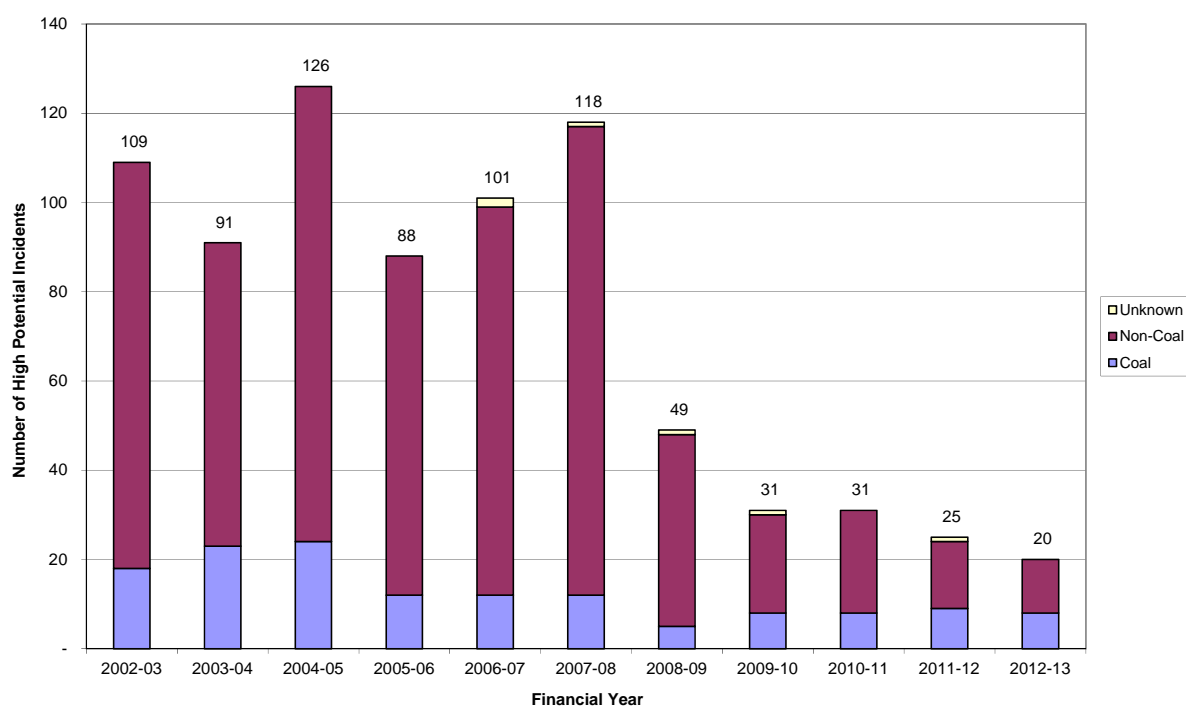
NB "Unknown" refers to incidents reported by non-mine organisations

Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Non-Coal	91	68	102	76	87	105	43	22	23	15	12	644
Coal	18	23	24	12	12	12	5	8	8	9	8	139
Unknown	-	-	-	-	2	1	1	1	-	1	-	6
Total	109	91	126	88	101	118	49	31	31	25	20	789

Figure 58

High Potential Incidents by Sector 2002-03 to 2012-13

NB "Unknown" refers to incidents reported by non-mine organisations



4.5.2 High Potential Incidents by Incident Investigation Level

Figure 59

High Potential Incidents by Incident Investigation Level 2002-03 to 2012-13

Investigation Level	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Level 1 - No need to attend. Mine to investigate & report.	48	45	45	58	62	68	32	18	20	15	14	425
Level 2 - Official to attend mine.	10	9	20	19	39	50	17	13	11	10	6	204
Level 3 - Detailed investigation suitable for further action	2	3	2	1	-	-	-	-	-	-	-	8
No Data	49	34	59	10	-	-	-	-	-	-	-	152
Total	109	91	126	88	101	118	49	31	31	25	20	789

Figure 60

High Potential Incidents by Incident Investigation Level 2002-03 to 2012-13

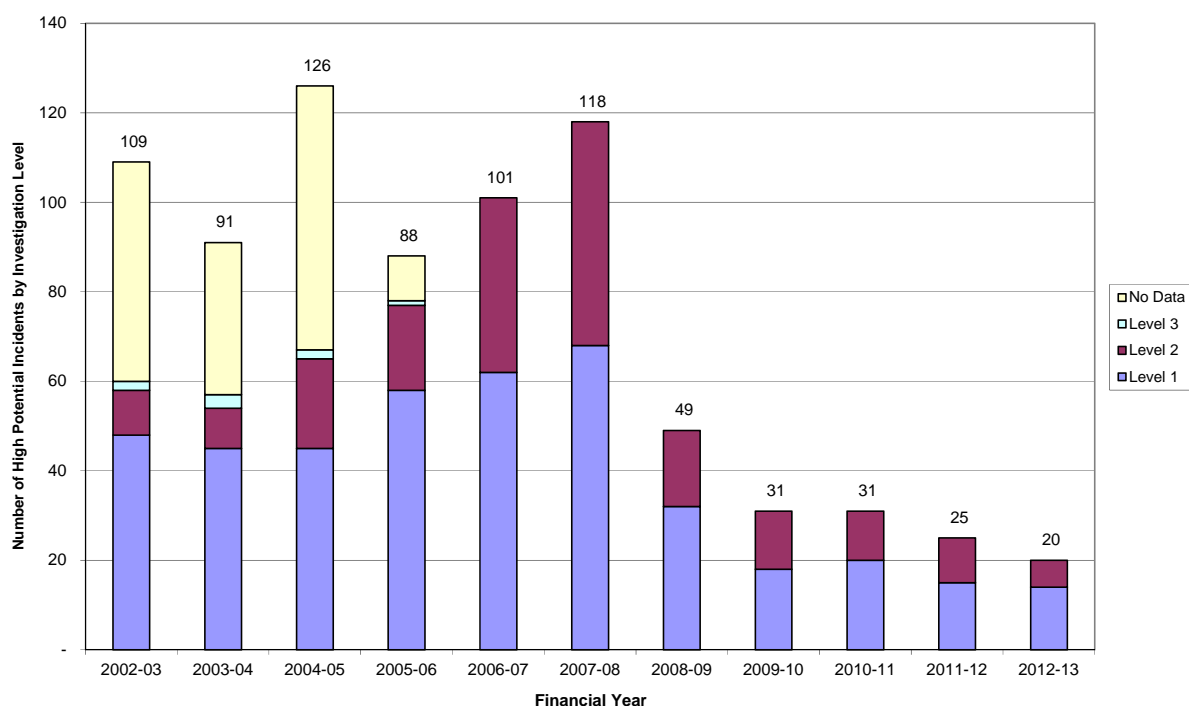
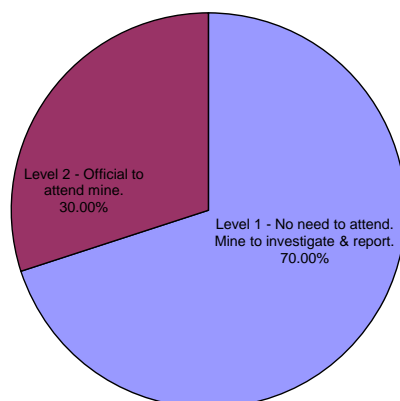


Figure 61

High Potential Incidents by Incident Investigation Level 2012-13

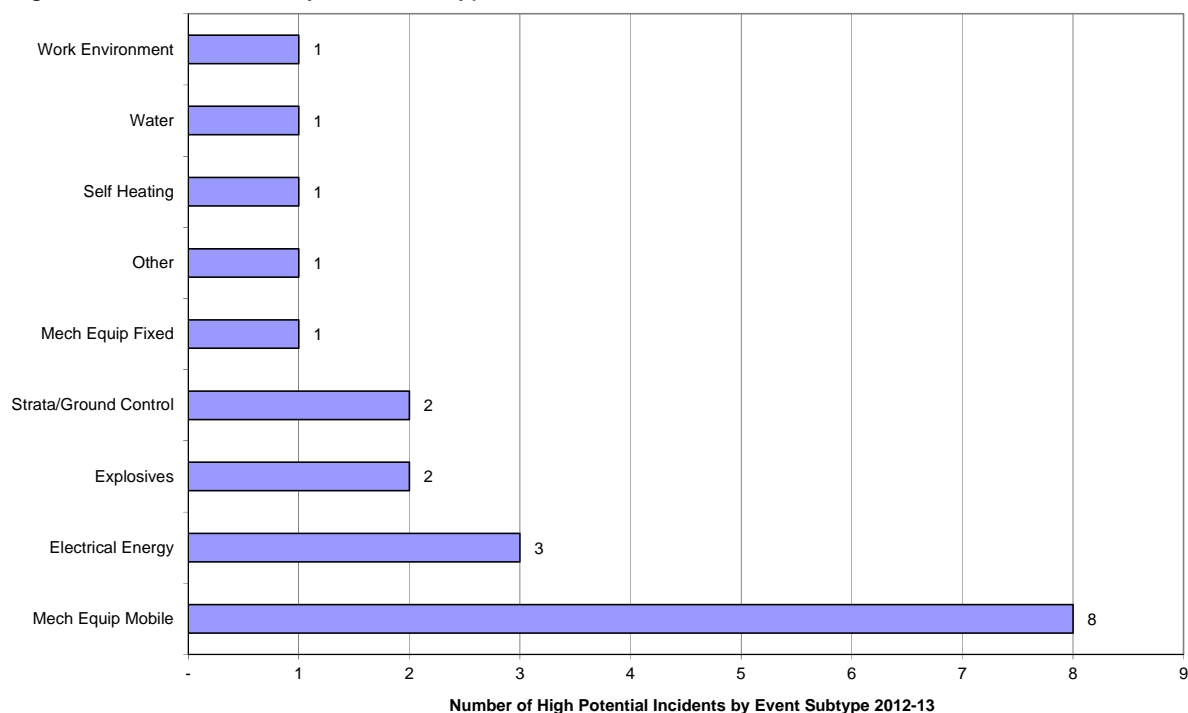


4.5.3 High Potential Incidents by Event Subtype

Figure 62
High Potential Incidents by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Mech Equip Mobile	43	37	68	46	53	52	24	10	7	8	8	356
Electrical Energy	12	19	11	12	17	16	7	2	5	6	3	110
Work Environment	9	7	12	6	11	19	5	9	8	6	1	93
Strata/Ground Control	13	4	12	8	5	9	4	4	4	3	2	68
Explosives	10	6	11	7	8	5	2	2	2	1	2	56
Mech Equip Fixed	11	12	6	4	3	10	3	-	2	-	1	52
Gas	2	3	1	1	1	4	-	1	1	-	-	14
Water	3	1	1	1	1	1	-	-	2	1	1	12
Structural Failure	2	-	2	2	-	1	1	-	-	-	-	8
Hazardous Materials	2	-	1	1	1	-	-	2	-	-	-	7
Dust	2	1	1	-	-	-	1	1	-	-	-	6
Self Heating	-	1	-	-	1	1	2	-	-	-	1	6
Other	-	-	-	-	-	-	-	-	-	-	1	1
Total	109	91	126	88	101	118	49	31	31	25	20	789

Figure 63
High Potential Incidents by Event Subtype 2012-13



4.6 Complaint Incidents

This section reports on all mine health and safety complaints received by NSW Trade & Investment from mine employees, members of the public, trade union representatives or anonymously.

4.6.1 Complaint Incidents by Sector

Figure 64

Complaint Incidents by Sector 2002-03 to 2012-13

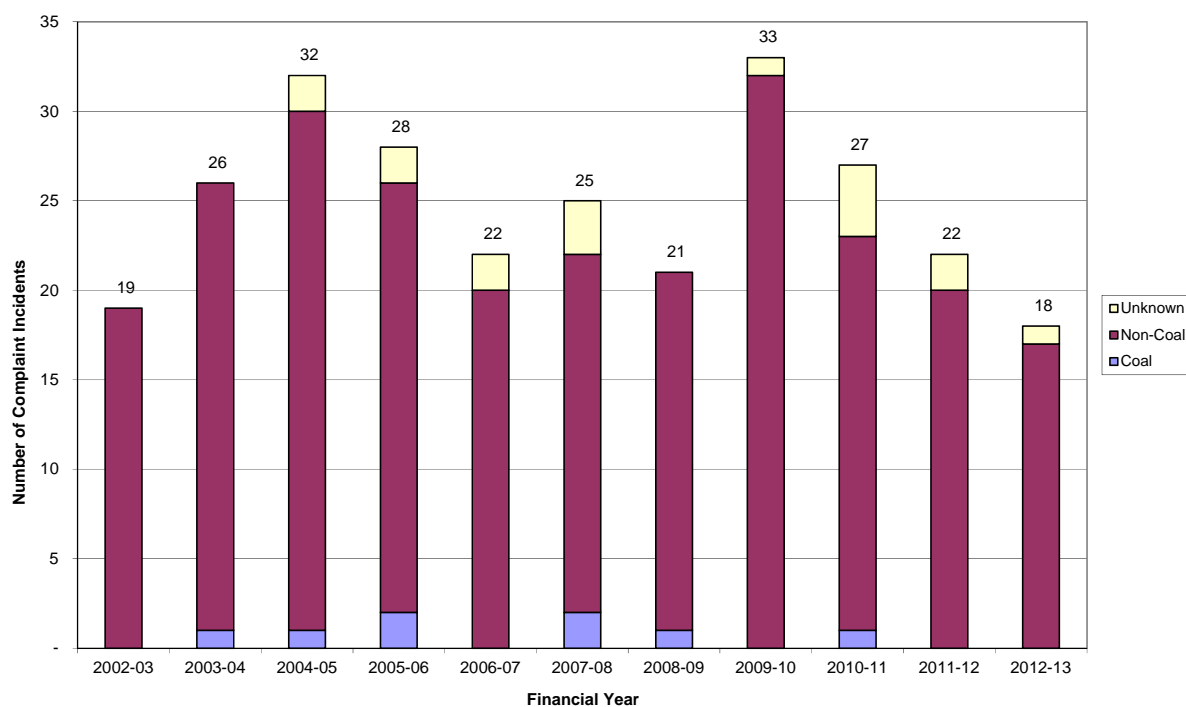
NB "Unknown" refers to incidents reported by non-mine organisations

Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Non-Coal	19	25	29	24	20	20	20	32	22	20	17	248
Coal	-	1	1	2	-	2	1	-	1	-	-	8
Unknown	-	-	2	2	2	3	-	1	4	2	1	17
Total	19	26	32	28	22	25	21	33	27	22	18	273

Figure 65

Complaint Incidents by Sector 2002-03 to 2012-13

NB "Unknown" refers to incidents reported by non-mine organisations



4.6.2 Complaint Incidents by Incident Investigation Level

Figure 66
Complaint Incidents by Incident Investigation Level 2002-03 to 2012-13

Investigation Level	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Level 1 - No need to attend. Mine to investigate & report.	3	4	3	15	9	10	5	13	9	9	8	88
Level 2 - Official to attend mine.	2	1	3	7	13	15	16	20	18	13	10	118
Level 3 - Detailed investigation suitable for further action	2	3	-	-	-	-	-	-	-	-	-	5
No Data	12	18	26	6	-	-	-	-	-	-	-	62
Total	19	26	32	28	22	25	21	33	27	22	18	273

Figure 67
Complaint Incidents by Incident Investigation Level 2002-03 to 2012-13

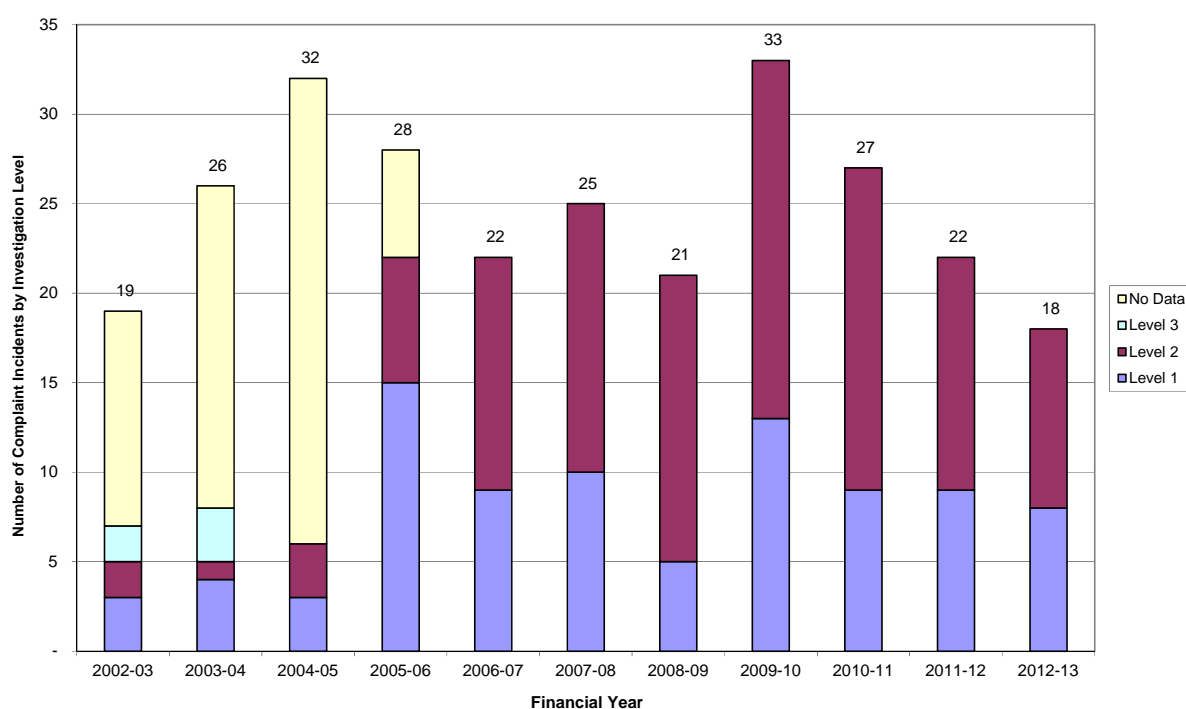
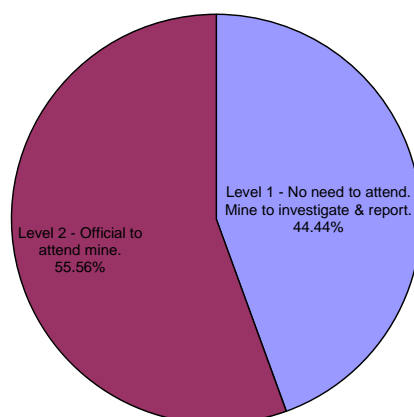


Figure 68
Complaint Incidents by Incident Investigation Level 2012-13

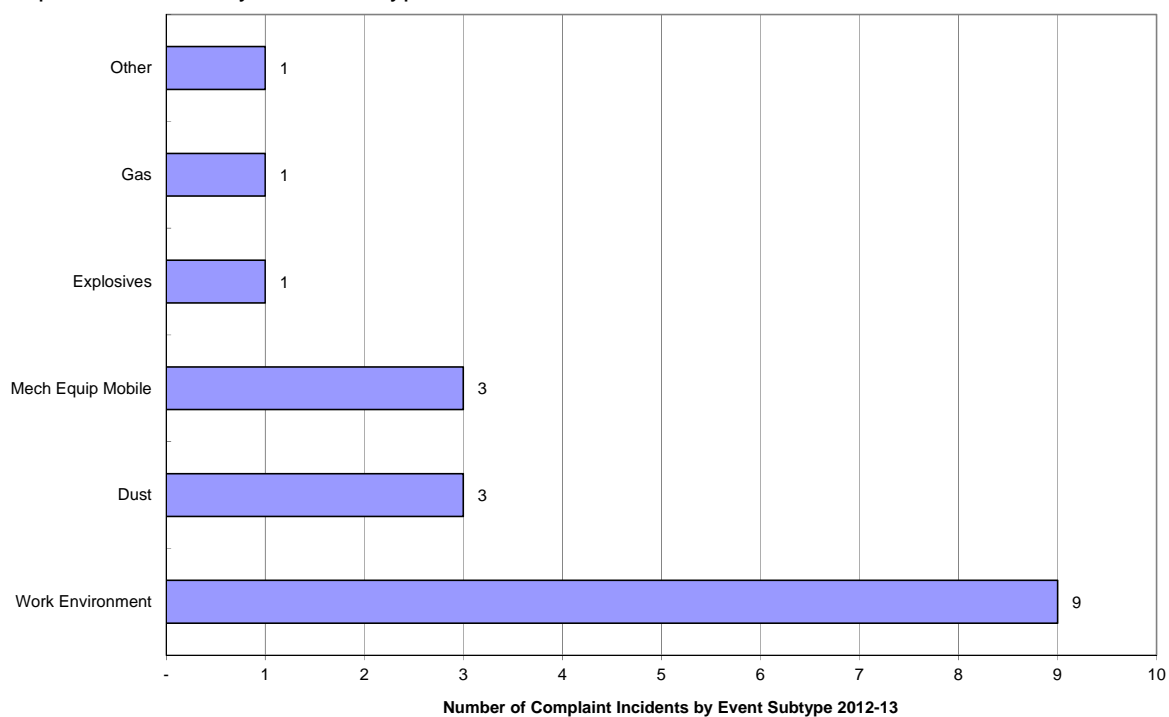


4.6.3 Complaint Incidents by Event Subtype

Figure 69
Complaint Incidents by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Work Environment	10	16	22	19	17	15	12	26	17	18	9	181
Explosives	6	2	5	3	5	2	4	2	4	-	1	34
Mech Equip Mobile	1	7	3	3	-	5	3	1	2	1	3	29
Dust	-	-	-	-	-	-	1	2	1	-	3	7
Strata/Ground Control	-	1	-	1	-	1	1	1	1	1	-	7
Gas	-	-	1	-	-	1	-	-	-	-	1	3
Mech Equip Fixed	-	-	1	-	-	-	-	-	1	1	-	3
Structural Failure	1	-	-	2	-	-	-	-	-	-	-	3
Electrical Energy	-	-	-	-	-	-	-	1	-	1	-	2
Hazardous Materials	-	-	-	-	-	1	-	-	1	-	-	2
Other	-	-	-	-	-	-	-	-	-	-	1	1
Water	1	-	-	-	-	-	-	-	-	-	-	1
Total	19	26	32	28	22	25	21	33	27	22	18	273

Figure 70
Complaint Incidents by Event Subtype 2012-13



5 INJURIES

This section reports on the breakdown of hours worked, fatalities, lost time injuries, total recordable injuries, serious bodily injuries and injury outcomes that were notified to NSW Trade & Investment.

It includes annual frequency rates for fatalities, lost time injuries and serious bodily injuries. Corresponding five year average frequency rates are reported in the Executive Summary (Figures 1-7).

Benchmarking of some national (Queensland and Western Australia) and international (USA) annual fatal injury and lost time injury frequency rates are also included in this report.

Note that when comparing performance outcomes with other jurisdictions any differences between definitions and the hazard profile of the mining industry should be considered. Comparisons to jurisdictions with no underground coal may also be more informative if underground coal data are excluded from the NSW dataset.

Important note regarding the source of NSW hours worked and lost time injuries

Coal hours worked and lost time injuries were sourced from Coal Services Pty Ltd until 2006-07 and from Quarterly Workplace Injury Reports reported to NSW Trade & Investment from 2007-08 onwards.

Metalliferous and Extractives hours worked and lost time injuries were compiled from several sources (see Appendix B.9) until 2008-09 and included some estimation. From 2009-10, Metalliferous and Extractives hours worked and lost time injuries were sourced solely from Quarterly Workplace Injury Reports reported to NSW Trade & Investment.

Medical Treatment Injuries and Restricted Duty Injuries were sourced from Quarterly Workplace Injury Reports reported to NSW Trade & Investment from 2007-08 onwards for Coal and from the second quarter of 2008-09 onwards for Metalliferous and Extractives.

Lost time injuries and restricted duty injuries to non-mine employees such as contractors and tradespersons could be underreported unless the date they resumed work (ie with their external employer) was reported back to the mine.

These factors should be considered when comparing lost time injuries before and after the change in the method of data collection.

Refer to the Definitions, COMET Database Terms and Appendix B.9 for Sources of Data and details of the classifications used.

5.1 Hours Worked

This section provides details of hours worked in the Coal, Metalliferous and Extractives mining sectors only, as hours worked cannot be reliably sourced for the Non-Coal Other and Petroleum (Onshore) mining sectors.

Due to legislative changes, these details became reportable to NSW Trade & Investment on Quarterly Workplace Injury Reports for Coal, under CMHSR 2006 Clause 206, from the beginning of 2007-08 and for Non-Coal, under MHSR 2007 Clause 155, from the second quarter of 2008-09.

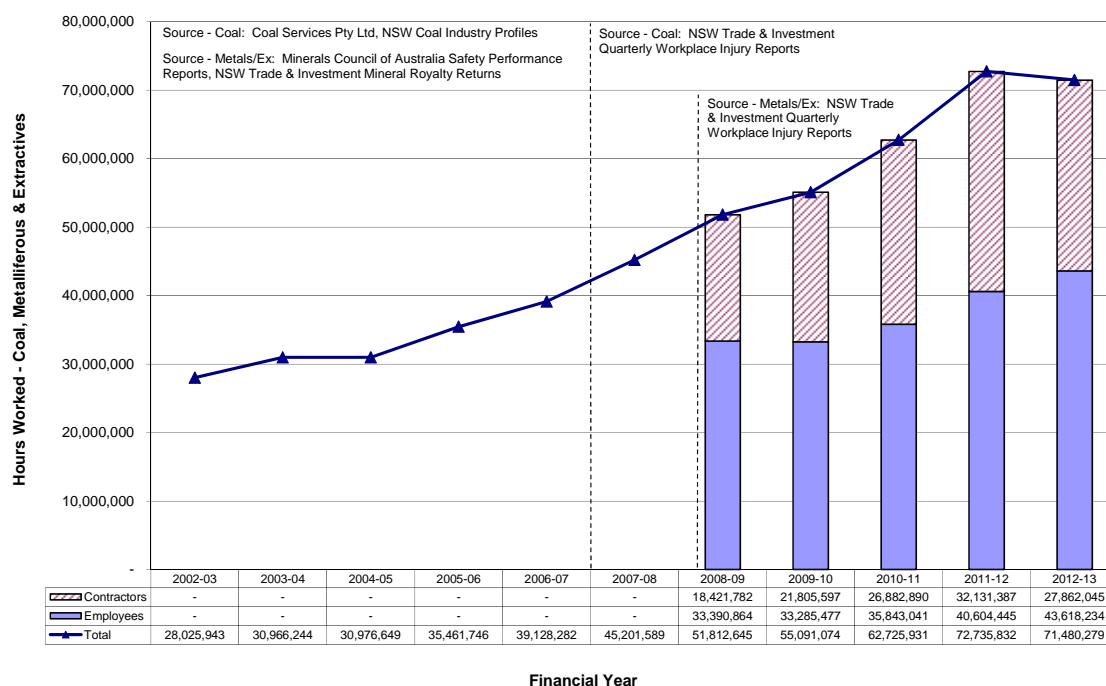
From 2011-12 to 2012-13:

- Coal sector hours worked rose by 2.2% and have doubled since 2006-07.
- Coal Underground hours worked rose by 6.6%.
- Coal Surface hours worked fell slightly by 0.7%.
- Metalliferous sector hours worked fell by 13.6%.
- Extractives sector hours worked fell by 6.4%.
- For the combined Metalliferous and Extractives sector, hours worked fell by 12%.

5.1.1 Coal, Metalliferous and Extractives Hours Worked

Figure 71

NSW Coal, Metalliferous and Extractives Total Hours Worked 2002-03 to 2012-13

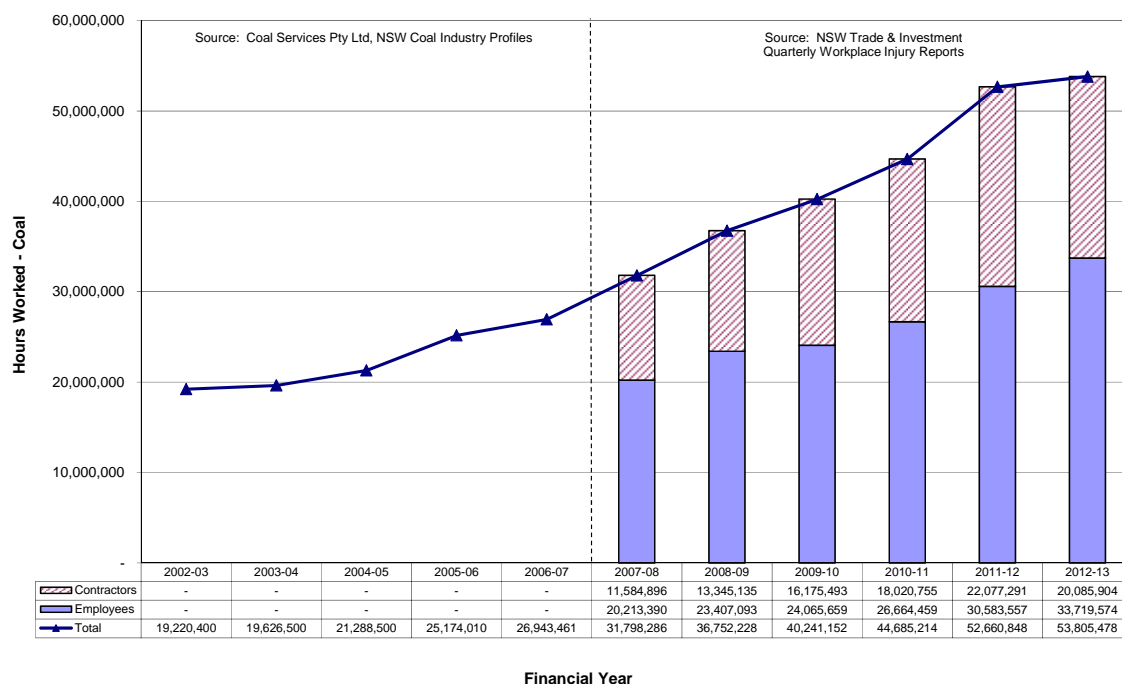


Refer to Appendix A.2 for details of Surface and Underground Hours Worked and Appendix B.9 for Sources of Data.

5.1.2 Coal Hours Worked

Figure 72

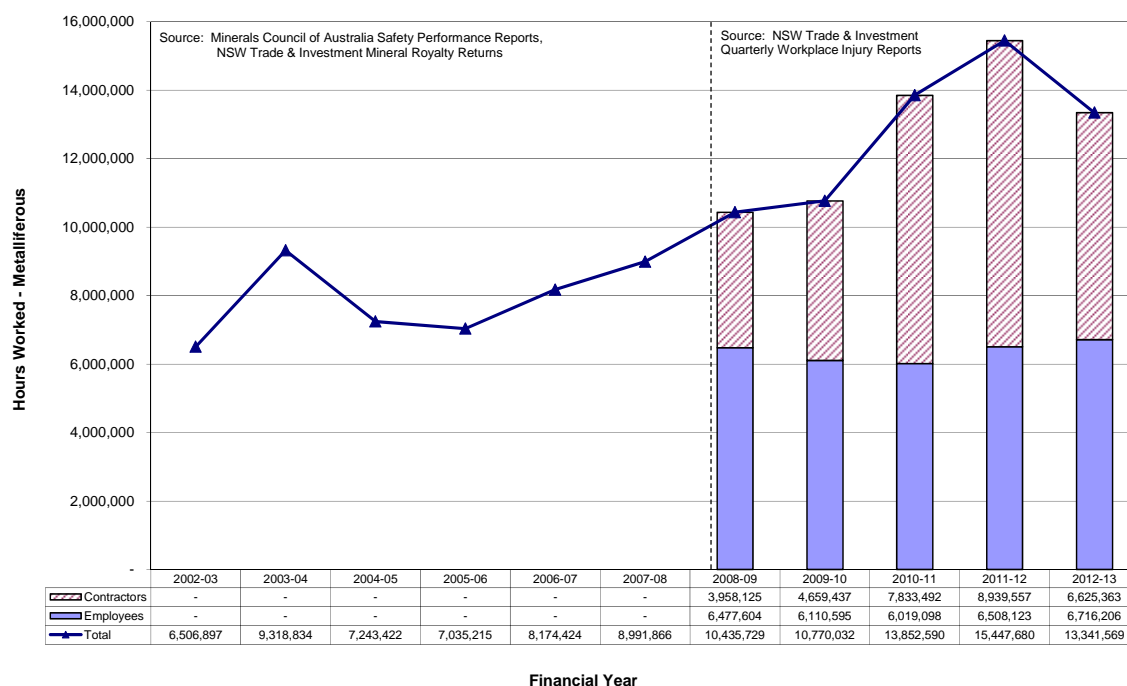
NSW Coal Total Hours Worked 2002-03 to 2012-13



Refer to Appendix A.2 for details of Surface and Underground Hours Worked and Appendix B.9 for Sources of Data.

5.1.3 Metalliferous Hours Worked

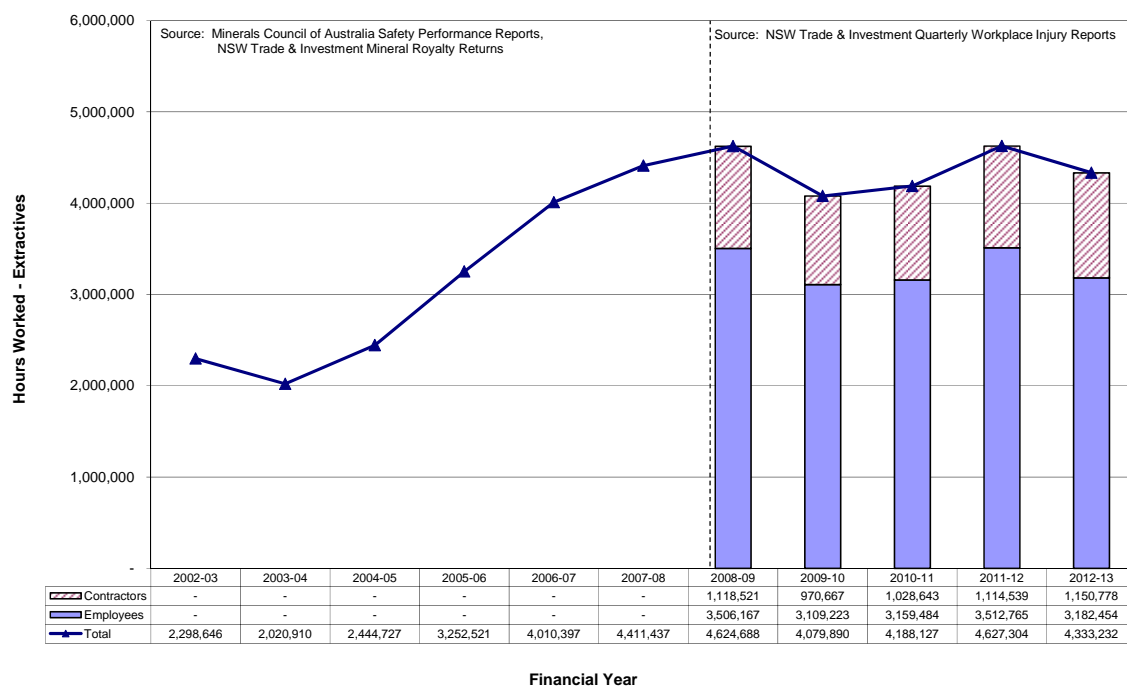
Figure 73
NSW Metalliferous Total Hours Worked 2002-03 to 2012-13



Refer to Appendix A.2 for details of Surface and Underground Hours Worked and Appendix B.9 for Sources of Data.

5.1.4 Extractives Hours Worked

Figure 74
NSW Extractives Total Hours Worked 2002-03 to 2012-13



Refer to Appendix A.2 for details of Hours Worked and Appendix B.9 for Sources of Data.

5.2 Fatalities

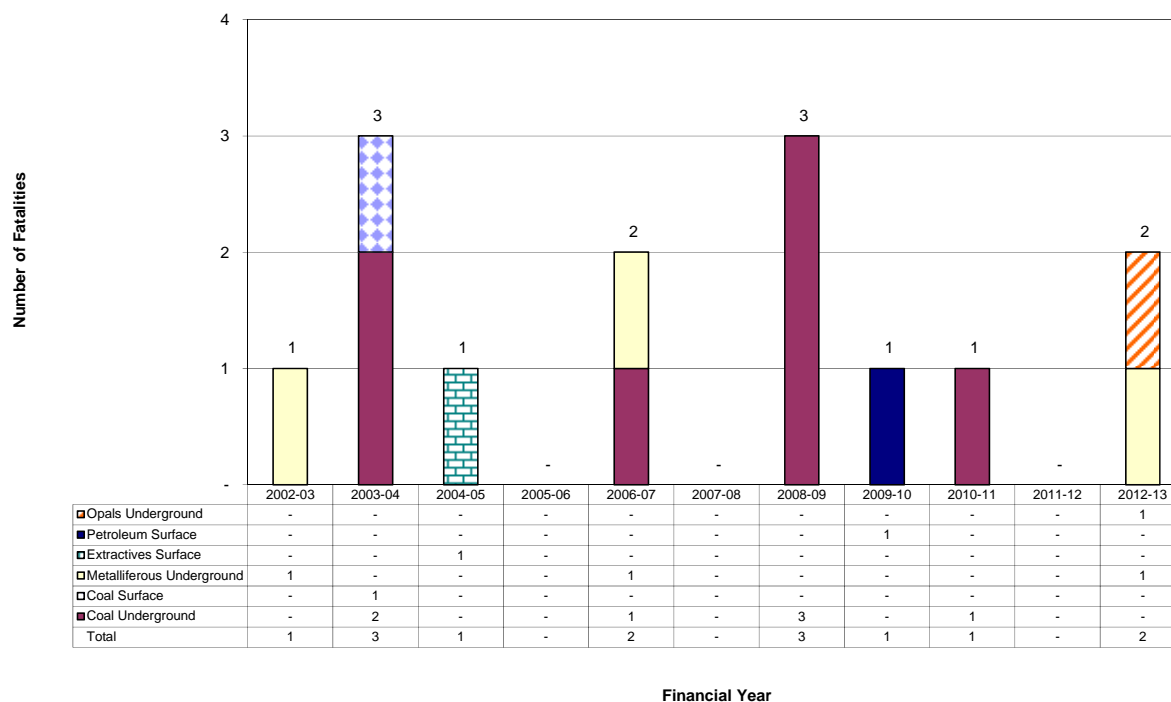
This section provides a breakdown of fatalities in the NSW Mining and Extractives industry.

- While the Coal, Extractives, and Petroleum (Onshore) sectors were fatality free in 2012-13, there was one fatality in each of the Metalliferous underground and Opal sectors.
 - 6 March 2013 – Victim fell down a blind opal mine shaft in the dark
 - 16 March 2013 - Mine shaft sinking supervisor was being hoisted in a kibble (bucket) when his head struck the underside of the top deck platform, causing fatal crush injuries
- There were seven fatalities in the NSW Mining and Extractives industry in the five years to June 2013, compared to six and 17 respectively in the previous two five year periods.
- The NSW Mining and Extractives industry has had twelve continuous months without a fatality on six occasions since 2002.
- The Coal sector has reported four fatalities in each of the previous two five year periods.
- The Coal surface sector was fatality free for the ninth consecutive year, and for the thirteenth time in fourteen years.
- The Metalliferous surface sector has been fatality free for nineteen years.
- The Metalliferous underground sector has reported one fatality in each of the previous two five year periods.
- The Extractives sector was fatality free for the eighth consecutive year and for the eleventh time in twelve years. There were zero fatalities in the past five year period, and one in the previous five year period.

Refer to the Definitions, COMET Database Terms and Appendix B.9 for Sources of Data and details of the classifications used.

5.2.1 Fatalities by Sector

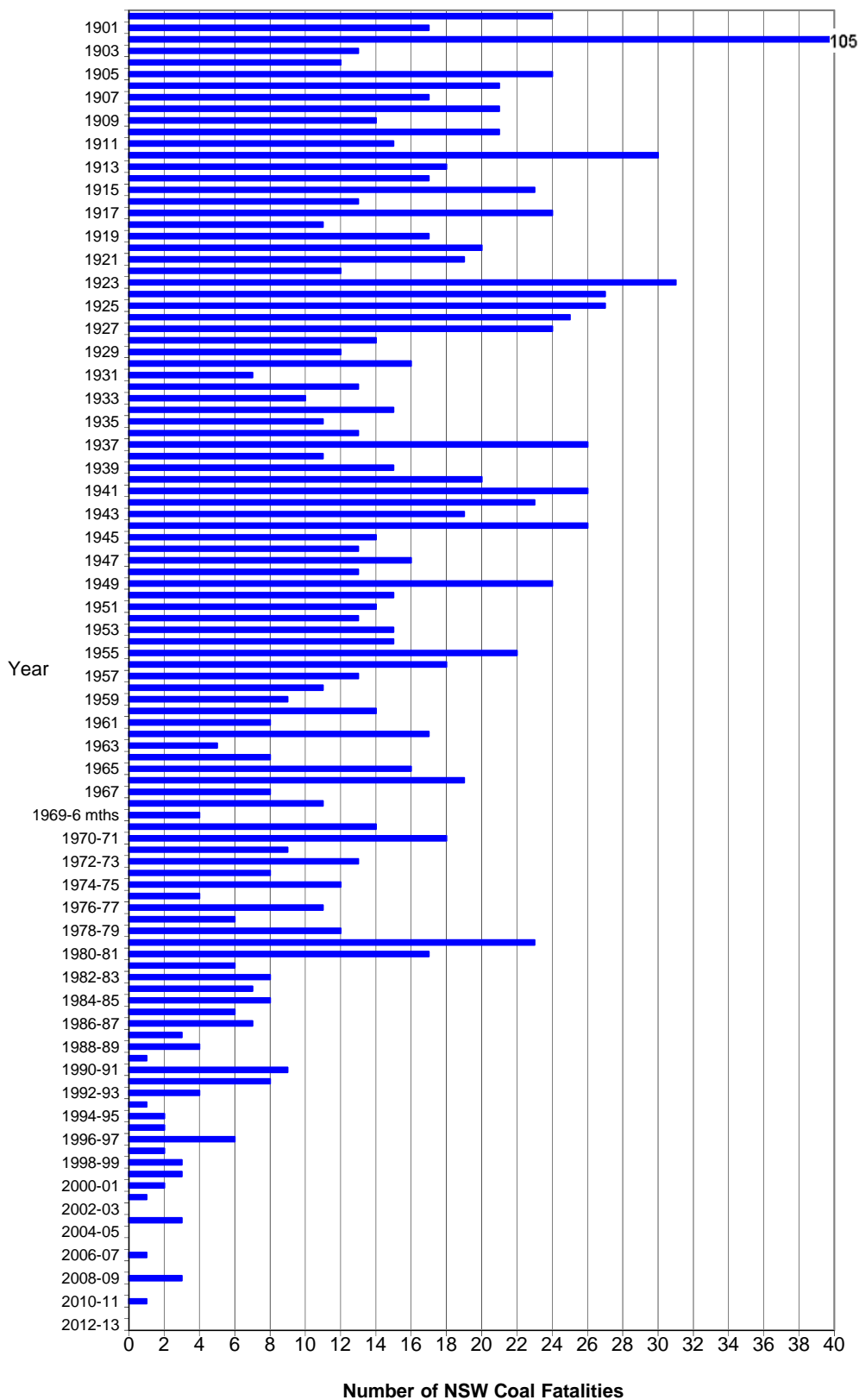
Figure 75
NSW Coal, Metalliferous & Extractives and Petroleum Fatalities by Sector 2002-03 to 2012-13



Refer to Appendix A.3 for further details of Fatalities by Sector and Operation Type.

5.2.2 Coal Fatalities since 1900

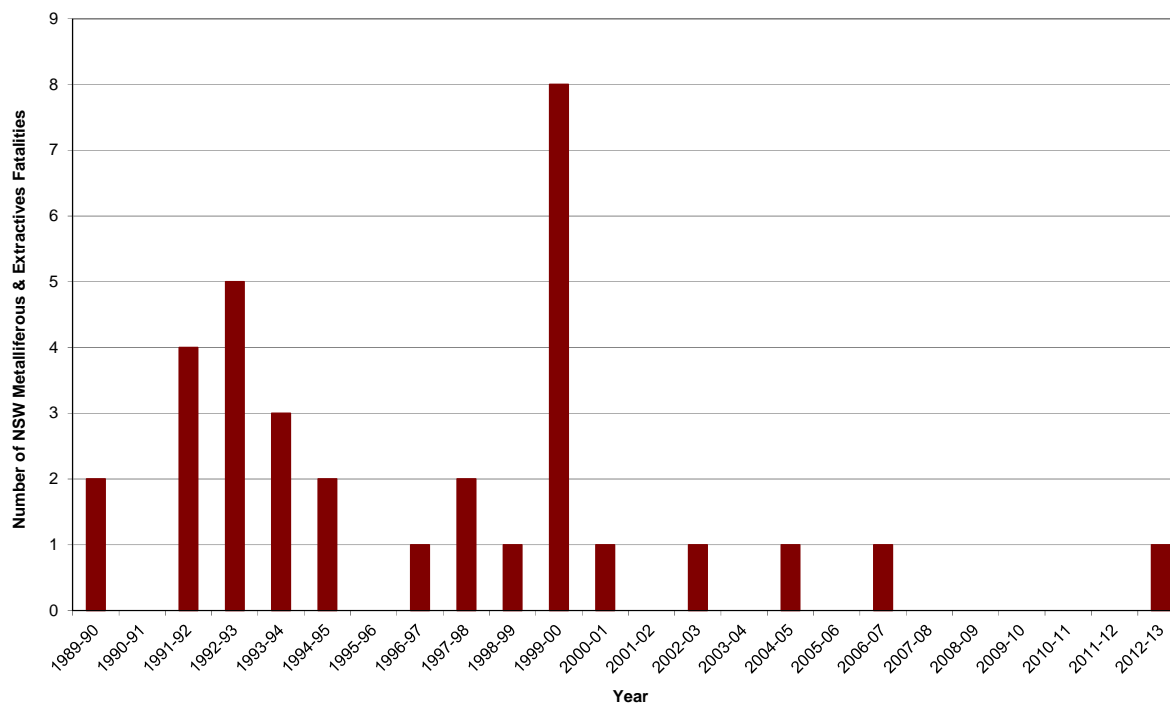
Figure 76
NSW Coal Annual Fatalities 1900 to 2012-13



5.2.3 Non-Coal Metalliferous & Extractives Fatalities since 1989-90

Figure 77

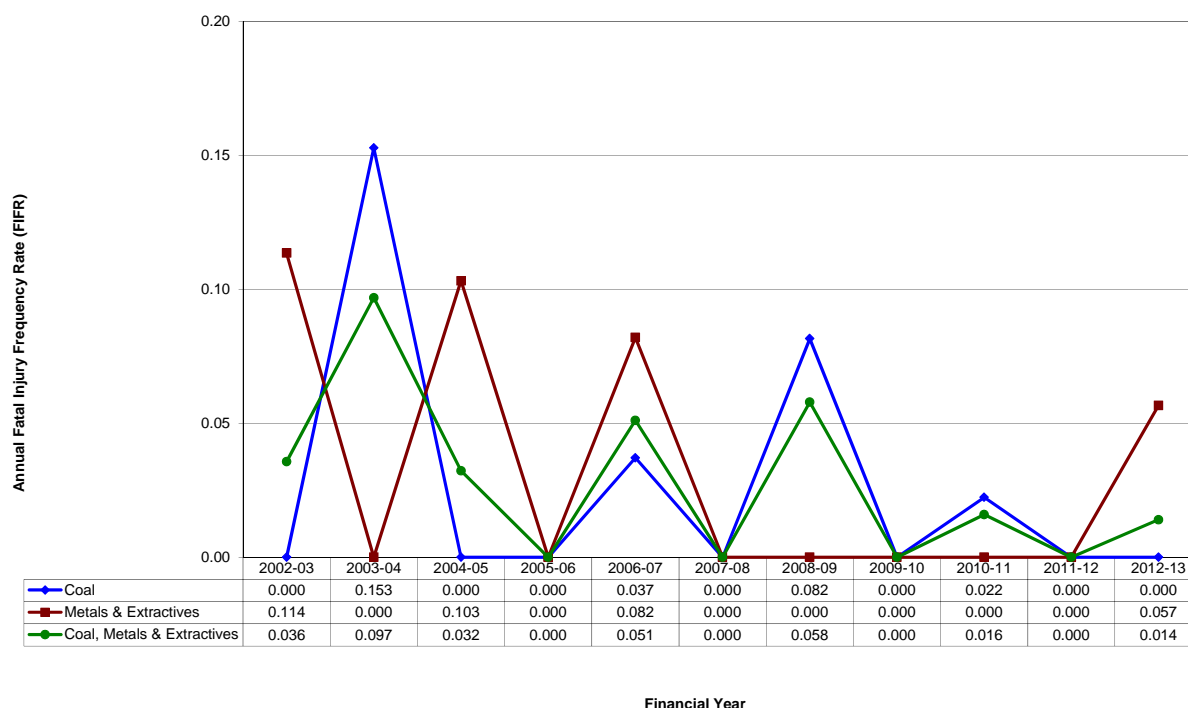
NSW Non-Coal Metalliferous & Extractives Annual Fatalities 1989-90 to 2012-13



5.2.4 Annual Fatal Injury Frequency Rate (FIFR) 2002-03 to 2012-13

Figure 78

NSW Coal, Metalliferous & Extractives Mining Annual Fatal Injury Frequency Rate (FIFR) 2002-03 to 2012-13

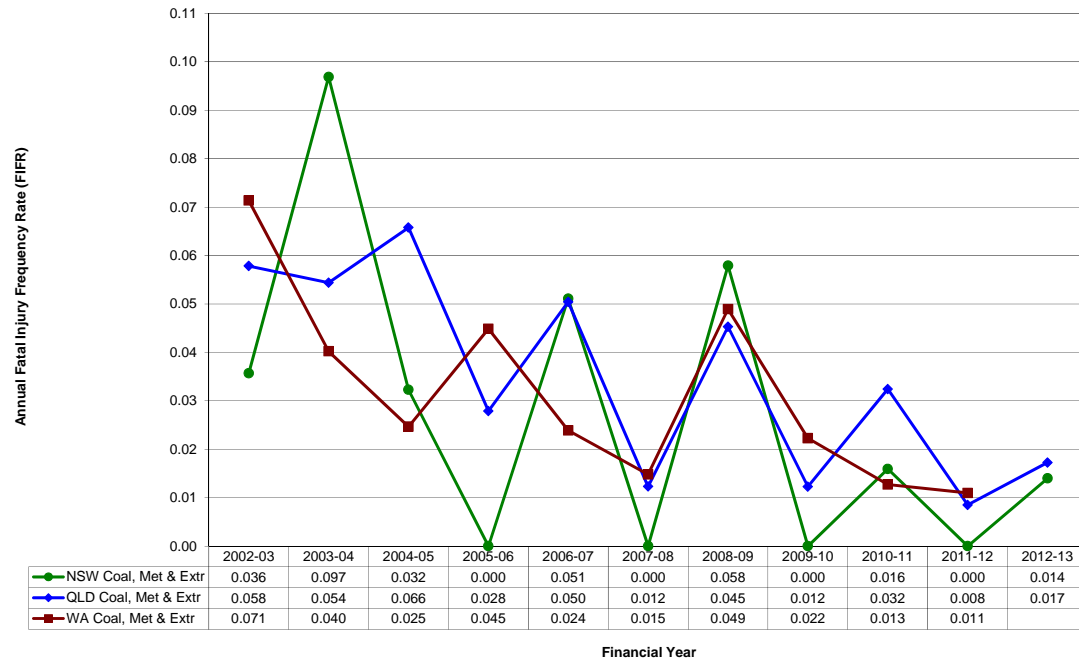


Refer to Figure 1 for Five Year Average Fatal Injury Frequency Rate 1997-98 to 2012-13

5.2.5 Annual Fatal Injury Frequency Rate (FIFR) National Comparison 2002-03 to 2012-13

Figure 79

NSW, QLD and WA Coal, Metalliferous & Extractives Annual Fatal Injury Frequency Rate (FIFR) 2002-03 to 2012-13

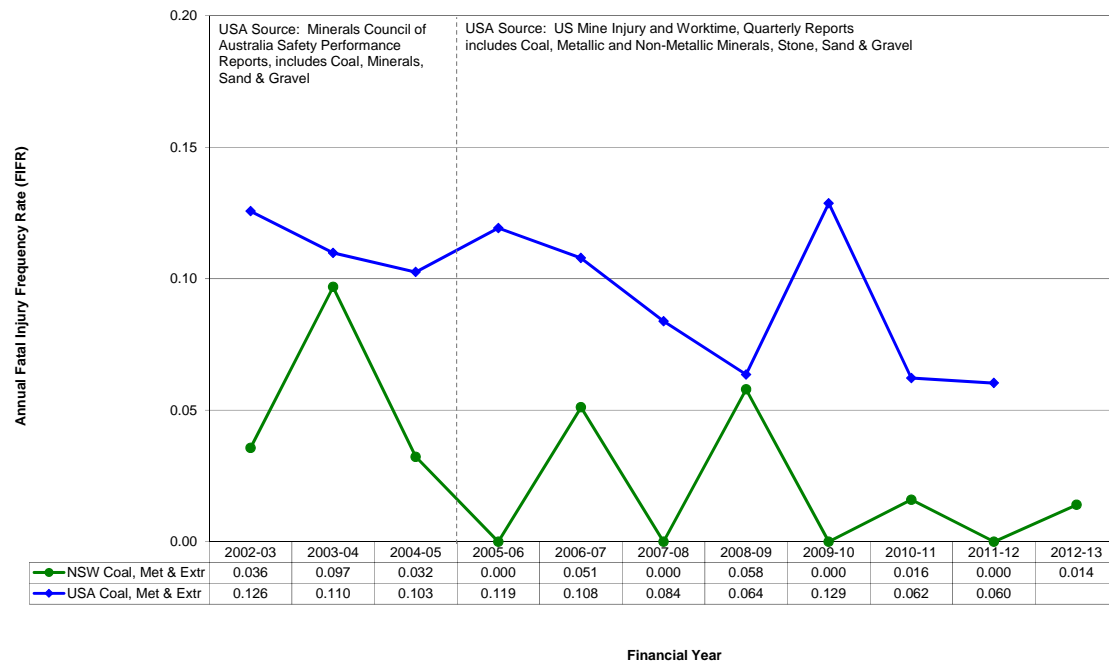


Refer to Appendix B.9 for Sources of Data

5.2.6 Annual Fatal Injury Frequency Rate (FIFR) International Comparison 2002-03 to 2012-13

Figure 80

NSW and USA Coal, Metalliferous & Extractives Annual Fatal Injury Frequency Rate (FIFR) 2002-03 to 2012-13



Refer to Appendix B.9 for Sources of Data

5.3 Lost Time Injuries (LTIs)

This section provides a breakdown of lost time injuries (LTIs) in the Coal, Metalliferous and Extractives sectors. A lost time injury is an injury that results in a minimum of one full shift's absence.

Due to legislative changes, these details became reportable to NSW Trade & Investment on Quarterly Workplace Injury Reports for Coal, under CMHSR 2006 Clause 206, from the beginning of 2007-08 and for Non-Coal, under MHSR 2007 Clause 155, from the second quarter of 2008-09.

Refer to "*Important note regarding the source of hours worked and lost time injuries*" in **Section 4 Injuries**.

In 2012-13:

- 56.6% of all LTIs occurred at underground operations.
- The Coal LTIFR of 4.46 was 28.2% below the five year average of 6.21.
- The Metalliferous & Extractives sector LTIFR of 4.3 was 14.7% below the five year average of 5.04
- The Coal, Metalliferous & Extractives LTIFR of 4.42 was 24.8% below the five year average of 5.88

From 2011-12 to 2012-13:

- The number of Coal Surface LTIs decreased 10% from 89 to 80 and the number of Coal Underground LTIs decreased 14.4% from 187 to 160. The overall number of Coal sector LTIs decreased 13% from 276 to 240
- The Coal sector LTIFR fell by 14.9% from 5.24 to 4.46
- The number of Metalliferous LTIs fell 27.3% from 33 to a record low of 24 and Extractives LTIs rose 10.6%.from 47 to 52
- The overall number of LTIs in the Metalliferous & Extractives sector decreased by 5% from 80 to 76, but the LTIFR rose by 7.8% from 3.99 to 4.3

Refer to the Definitions, COMET Database Terms and Appendix B.9 for Sources of Data and details of the classifications used.

5.3.1 Lost Time Injuries by Sector

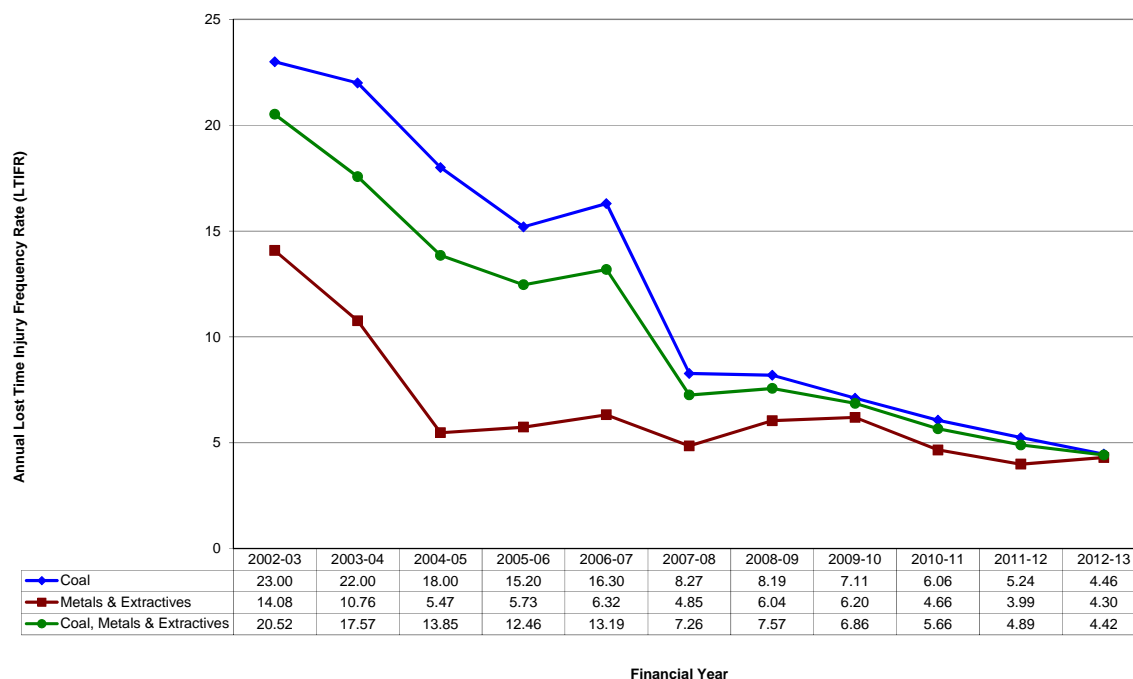
Figure 81
NSW Coal, Metalliferous & Extractives Lost Time Injuries by Sector 2002-03 to 2012-13



Refer to Appendix A.4 for further details of Lost Time Injuries by Sector and Operation Type.

5.3.2 Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13

Figure 82
NSW Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13



Refer to Figure 2 for Five Year Average Lost Time Injury Frequency Rate 1997-98 to 2012-13

Figure 83
NSW Coal Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13

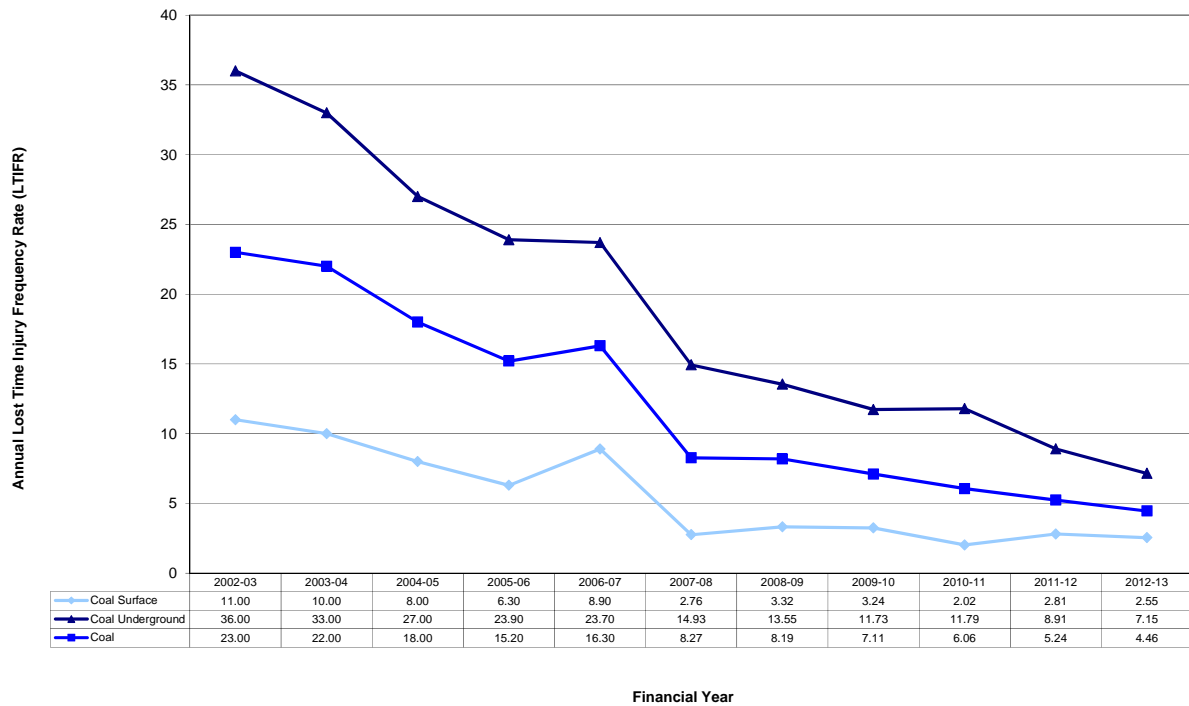
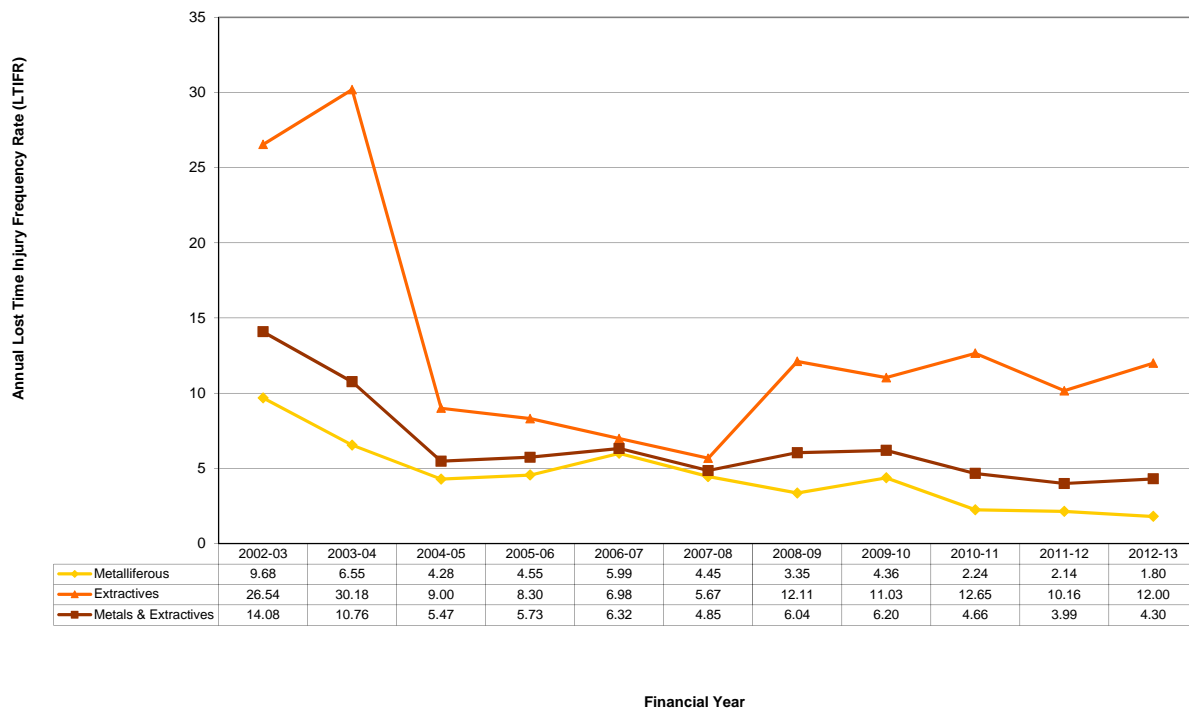


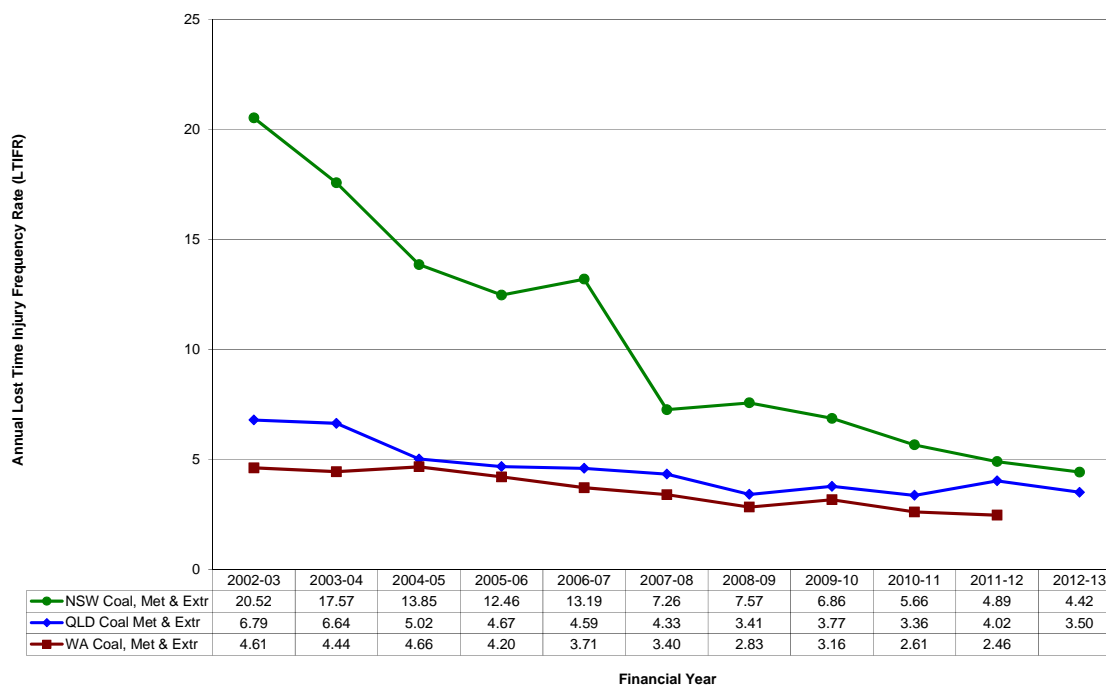
Figure 84
NSW Metalliferous and Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13



5.3.3 Annual Lost Time Injury Frequency Rate (LTIFR) National Comparison 2002-03 to 2012-13

Figure 85

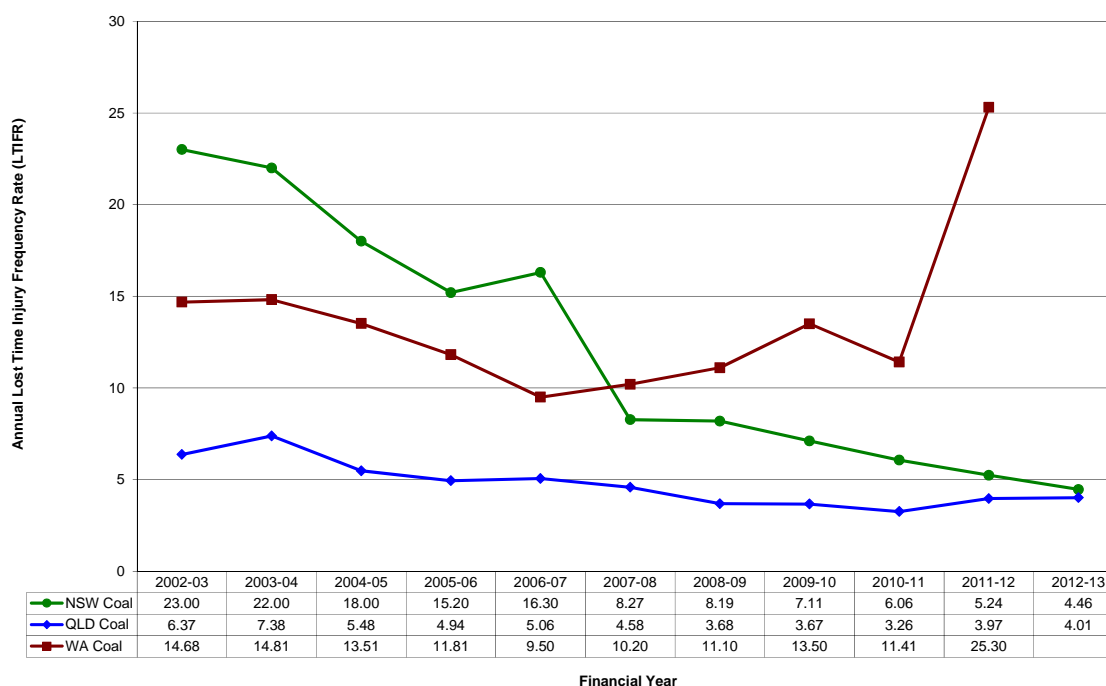
NSW, QLD and WA Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13



Refer to Appendix B.9 for Sources of Data

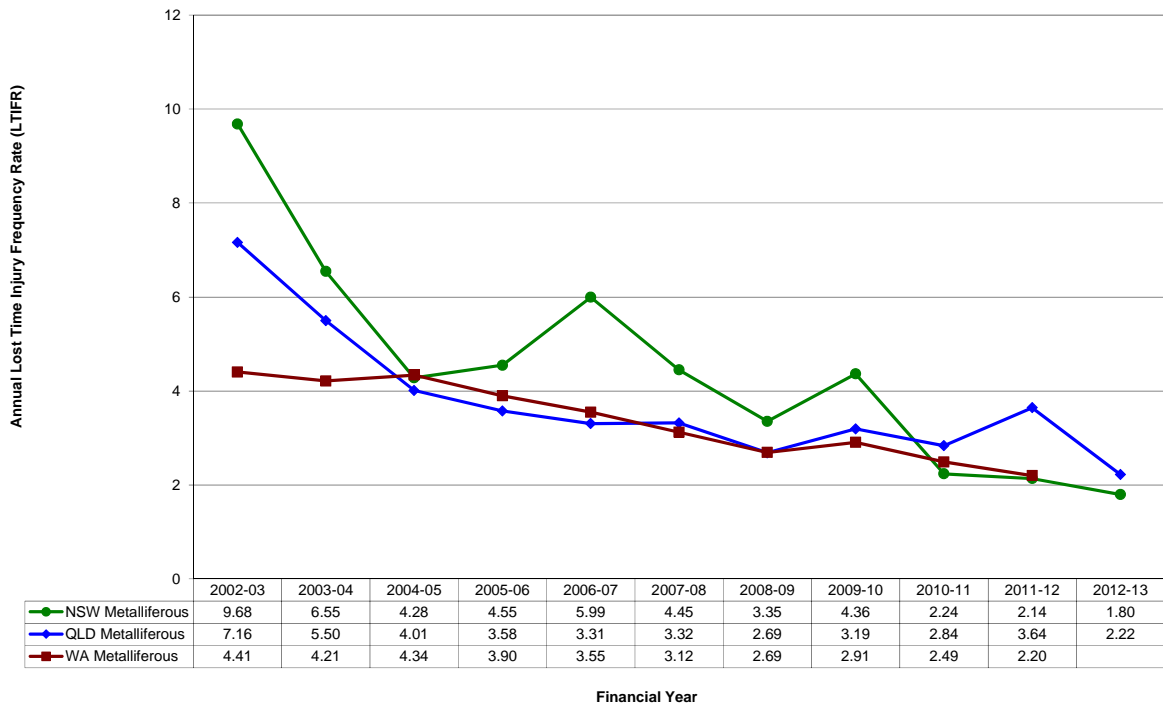
Figure 86

NSW, QLD and WA National Coal Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13



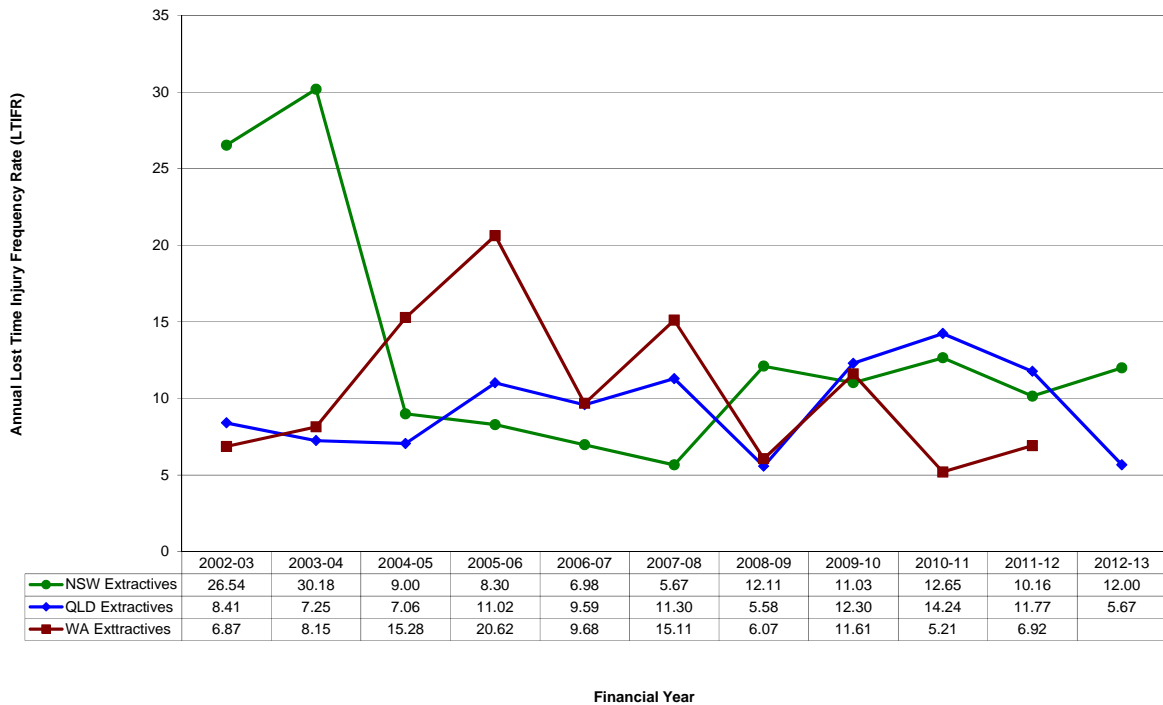
Refer to Appendix B.9 for Sources of Data

Figure 87
NSW, QLD and WA Metalliferous Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13



Refer to Appendix B.9 for Sources of Data

Figure 88
NSW, QLD and WA Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 2002-03 to 2012-13



Refer to Appendix B.9 for Sources of Data

5.3.4 Annual Lost Time Injury International Comparison 2002-03 to 2012-13

The United States of America Mine Safety and Health Administration publishes *Mine Injury and Worktime, Quarterly* statistics, including hours worked, fatalities and NFDL.

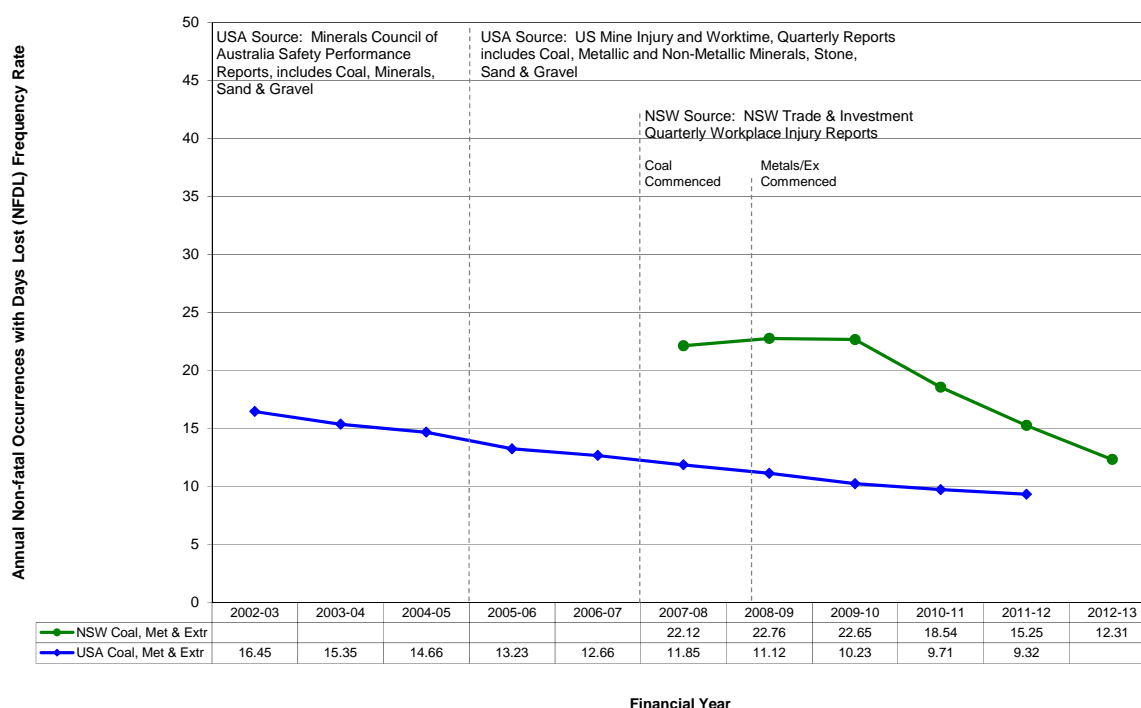
The USA NFDL is defined as “Non-Fatal Injury Occurrences with Days Lost” and represents “non-fatal injury occurrences that result in days away from work or days of restricted work activity”.

The NSW equivalent to the USA NFDL is obtained by combining Lost Time Injuries and Restricted Duties Injuries derived from Quarterly Workplace Injury Reports reported to NSW Trade & Investment since the commencement of the current legislation.

For information purposes, the following charts show the USA NFDL frequency rate and the equivalent NSW combined Lost Time Injury and Restricted Duties Injury frequency rate.

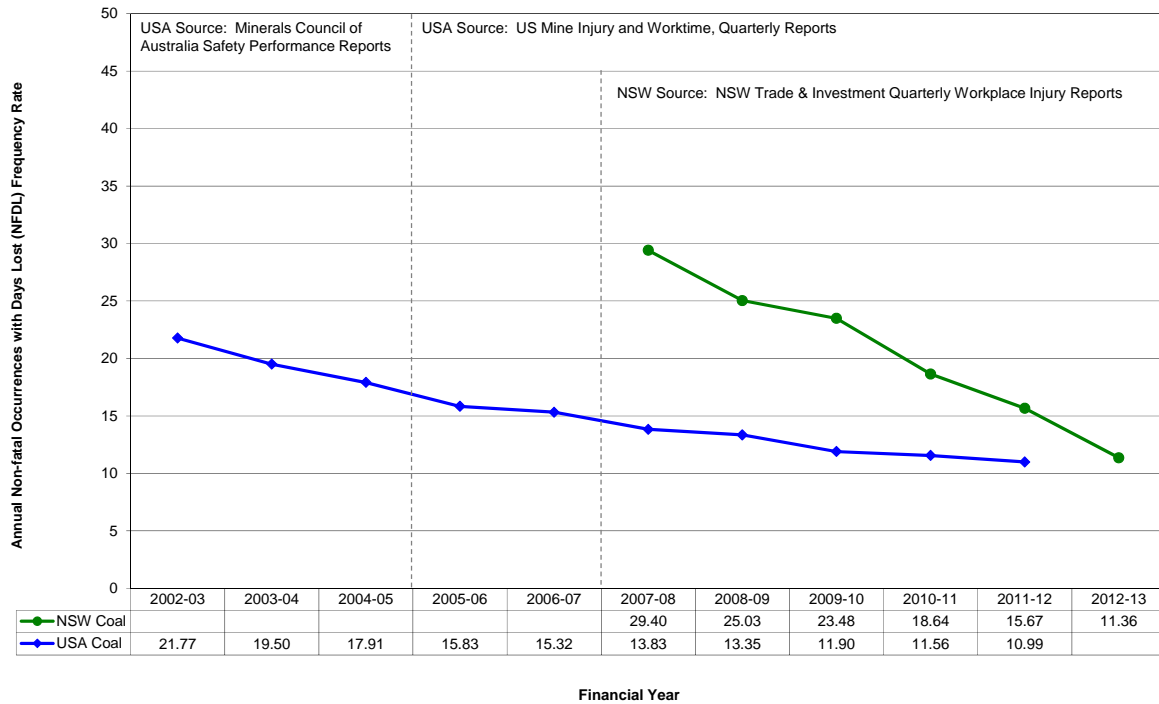
For further information refer to the *Definitions and Appendix B.9 for Sources of Data and further details of Injury Classifications*

Figure 89
NSW and USA Coal, Metalliferous & Extractives Annual NFDL Frequency Rate 2002-03 to 2012-13



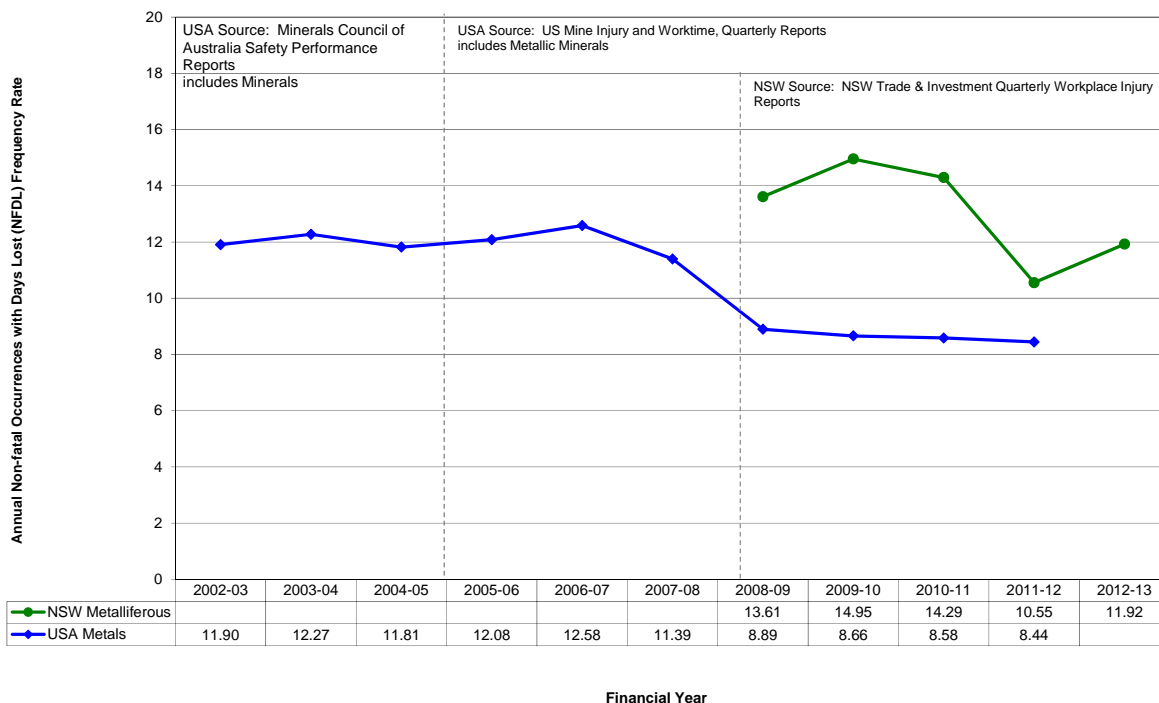
Refer to Appendix B.9 for Sources of Data

Figure 90
NSW and USA Coal Annual NFDL Frequency Rate 2002-03 to 2012-13



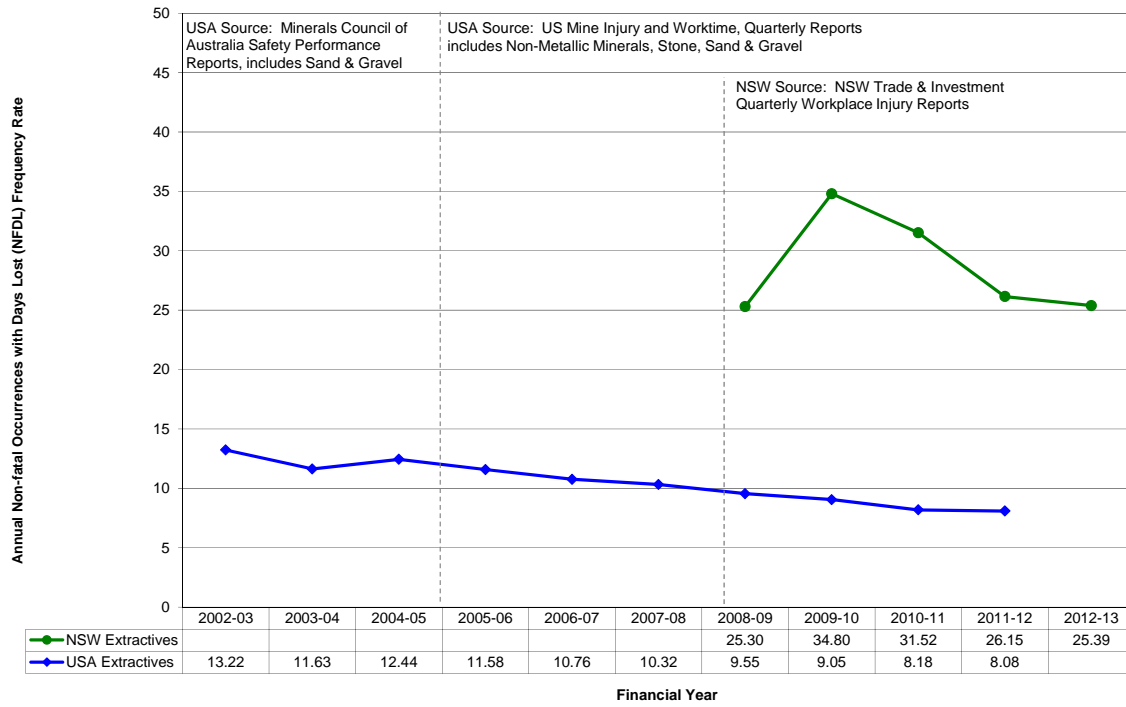
Refer to Appendix B.9 for Sources of Data

Figure 91
NSW and USA Metalliferous Annual NFDL Frequency Rate 2002-03 to 2012-13



Refer to Appendix B.9 for Sources of Data

Figure 92
 NSW and USA Extractives Annual NFDL Frequency Rate 2002-03 to 2012-13



Refer to Appendix B.9 for Sources of Data

5.4 Total Recordable Injuries (TRIs)

This section provides a breakdown of the total recordable injuries in the Coal, Metalliferous and Extractives sectors. Total Recordable Injuries (TRIs) are the total number of fatalities and injuries resulting in lost time (LTI), restricted duties (RDI) or medical treatment (MTI).

Due to legislative changes, these details became uniformly reportable to NSW Trade & Investment on Quarterly Workplace Injury Reports for Coal, under CMHSR 2006 Clause 206, from the beginning of 2007-08 and for Non-Coal, under MHSR 2007 Clause 155, from the second quarter of 2008-09.

In 2012-13:

- Just over two thirds of all TRIs occurred at underground operations

From 2011-12 to 2012-13:

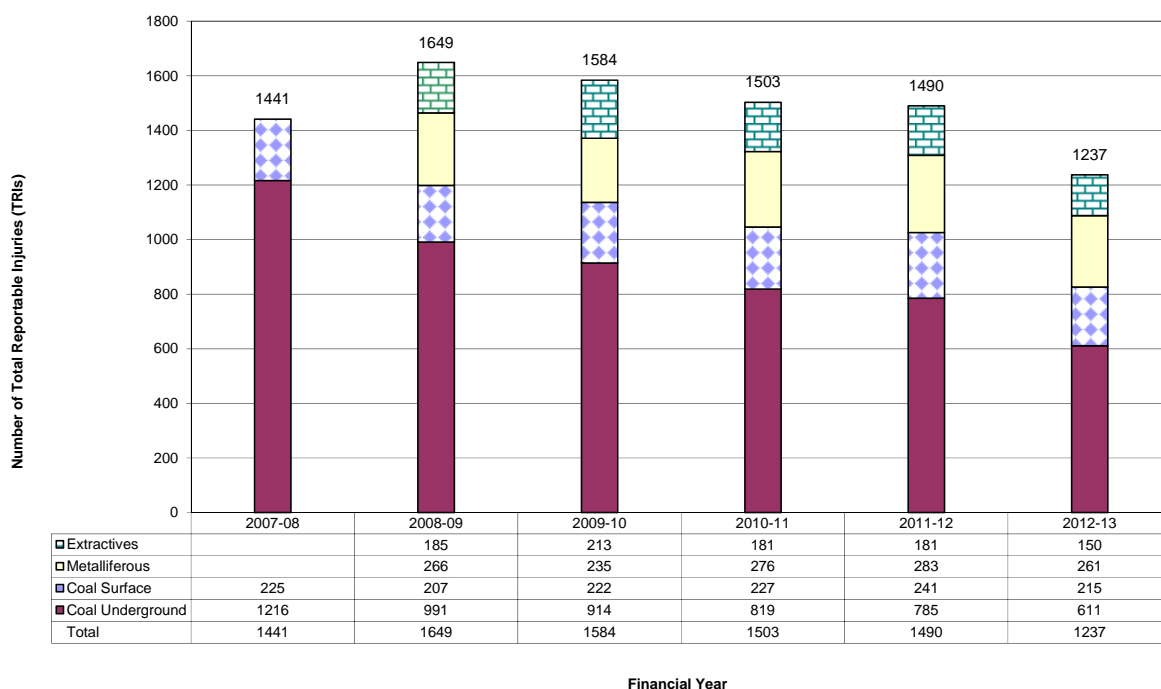
- The number of Coal underground TRIs fell by 22.2% from 785 to 611, the number of Coal surface TRIs fell by 10.8% from 241 to 215 and the total number of Coal TRIs fell by 19.5% from 1026 to 826
- The number of Metalliferous underground TRIs fell by 5% from 238 to 226, the number of Metalliferous surface TRIs fell by 22.2% from 45 to 35 and the total number of Metalliferous TRIs fell by 7.8% from 283 to 261
- The number of Extractives TRIs fell by 17.1% from 181 to 150
- The overall number of TRIs fell by 17% from 1490 to 1237

Refer to Appendix A.5 for further details of Total Recordable Injuries by Sector and Operation Type.

5.4.1 Total Recordable Injuries by Sector

Figure 93

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Sector 2007-08 to 2012-13



5.4.2 Total Recordable Injuries by Injury Type

Figure 94

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2012-13

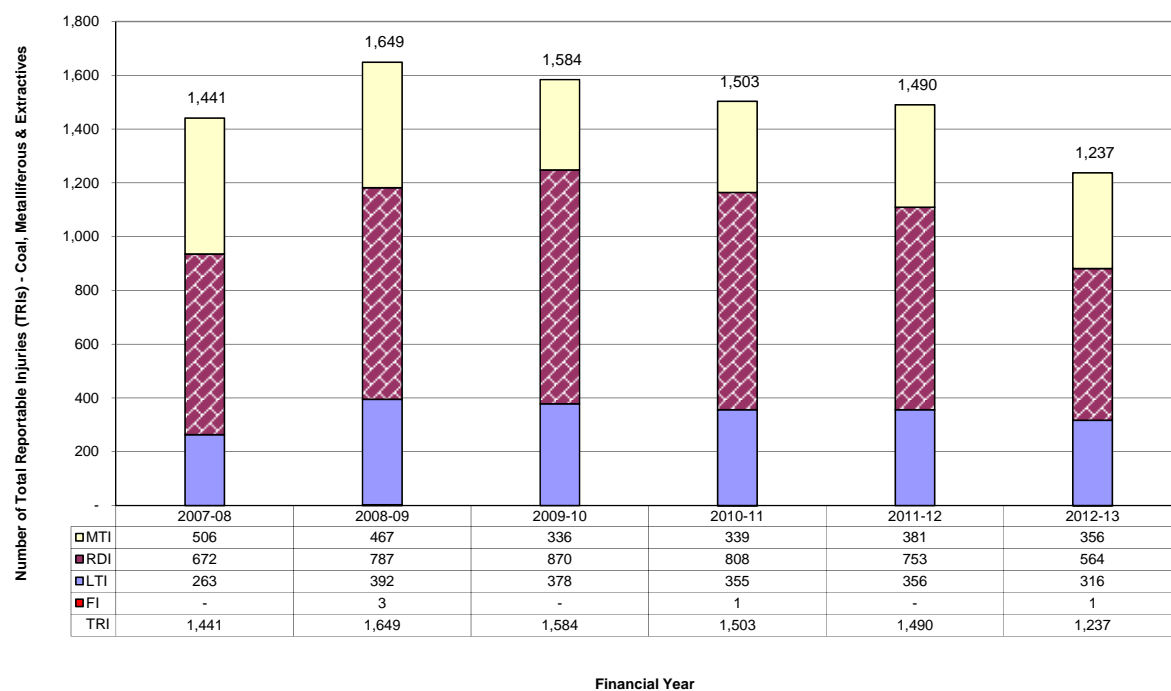


Figure 95
NSW Coal Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2012-13

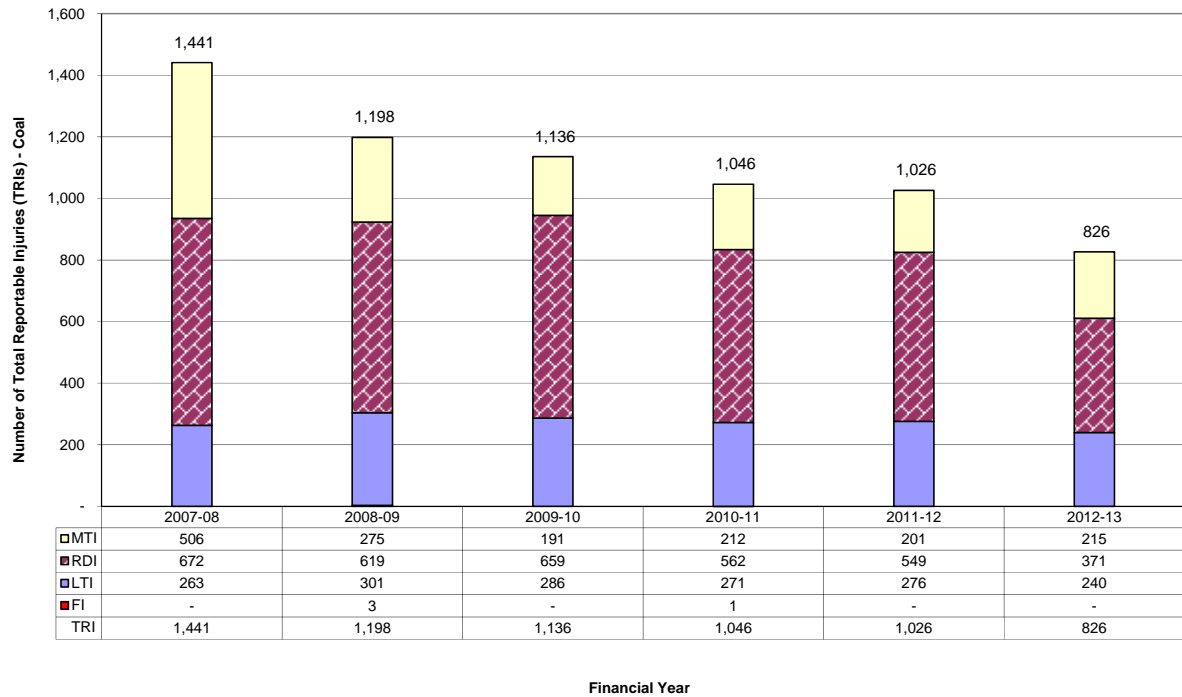
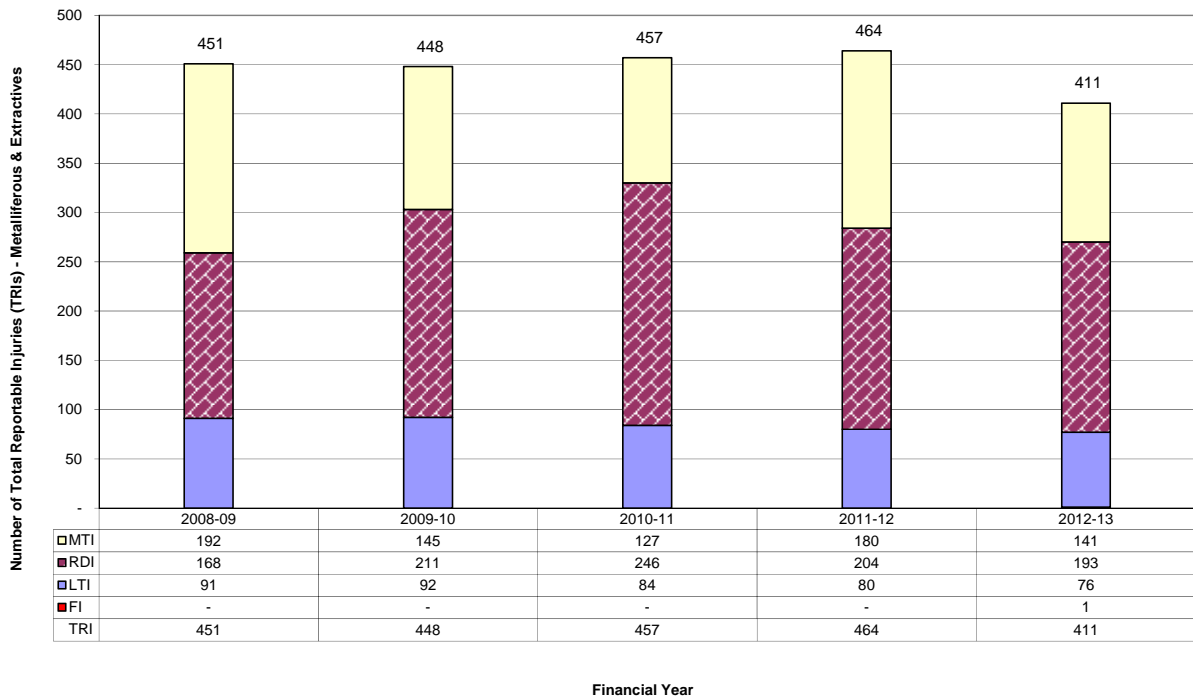


Figure 96
NSW Metalliferous & Extractives Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2012-13



Refer to Appendix A.5 for further details of Total Recordable Injuries by Sector and Operation Type.

Figure 97

NSW Coal, Metalliferous & Extractives Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2012-13

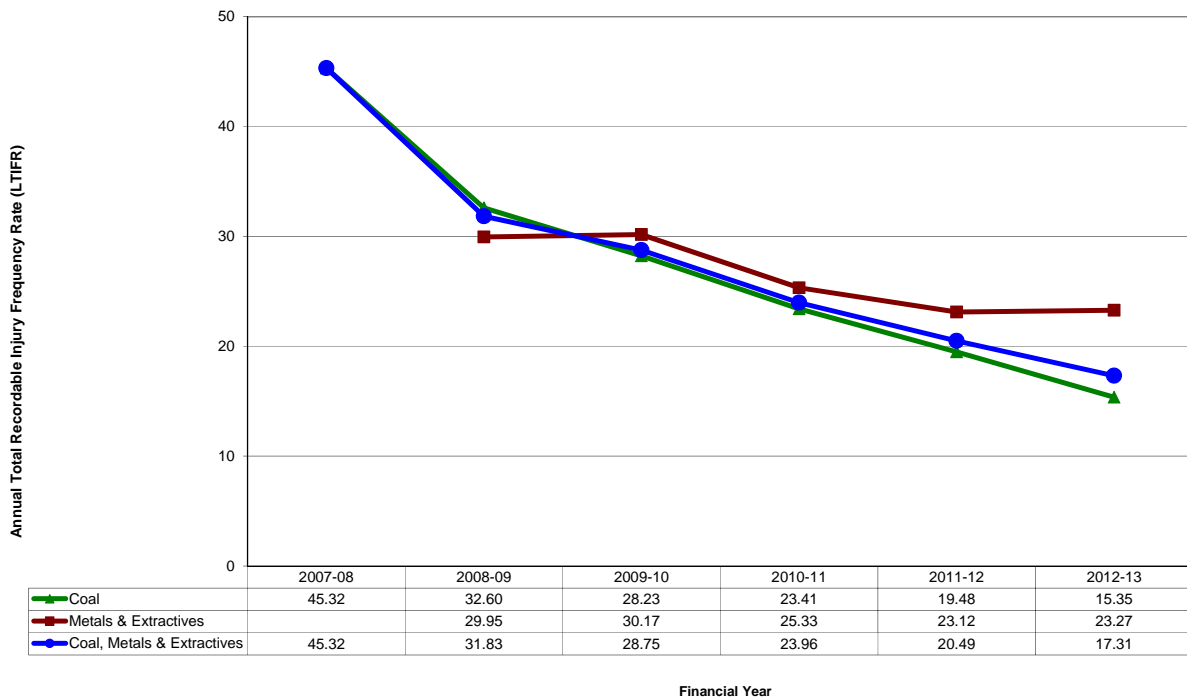


Figure 98

NSW Coal Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2012-13

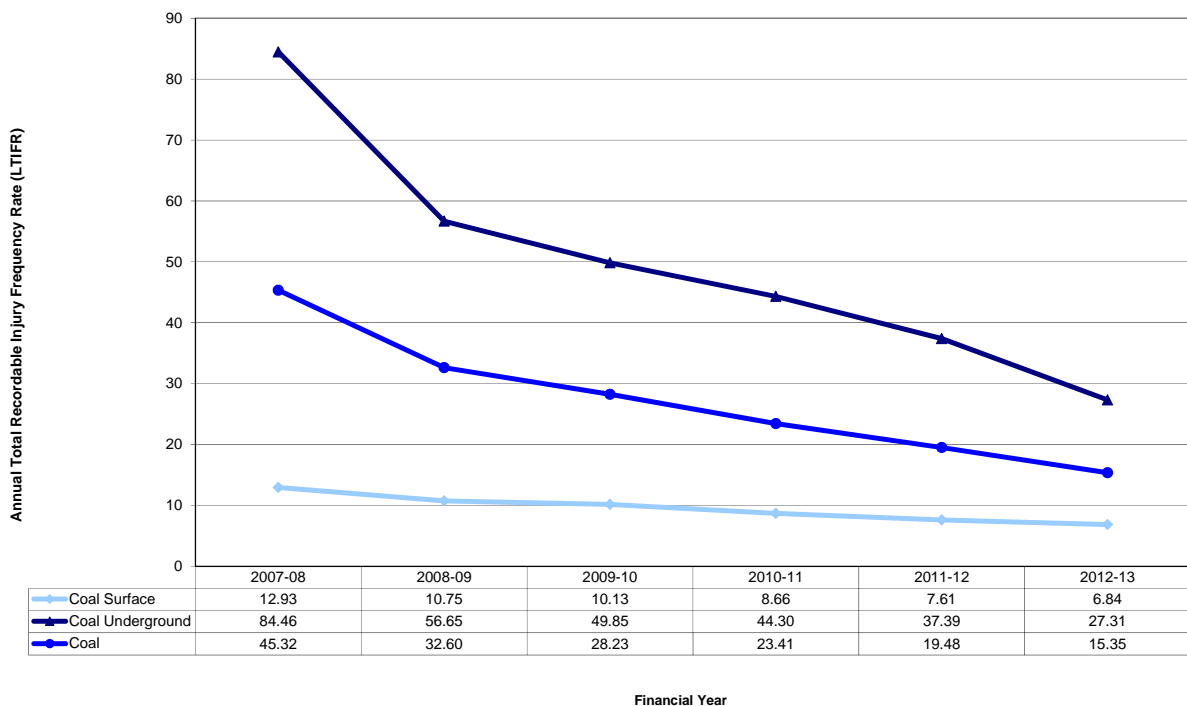
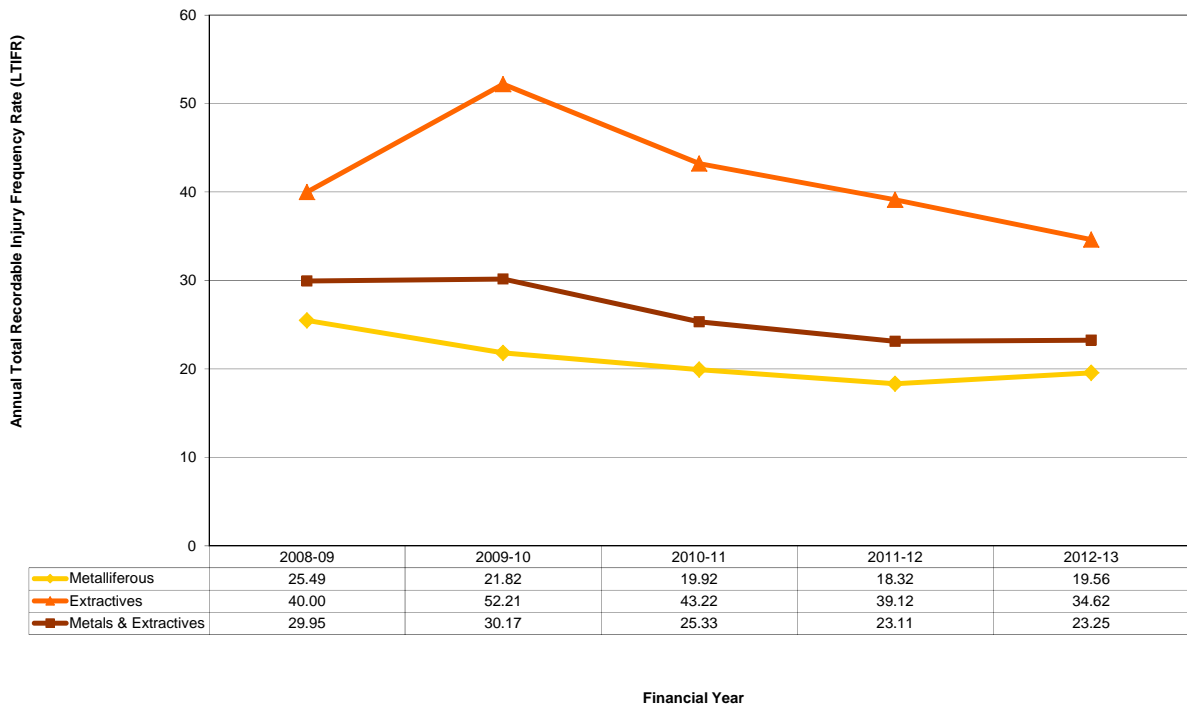


Figure 99
 NSW Metalliferous & Extractives Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2012-13



5.5 Serious Bodily Injuries (SBIs)

This section provides a breakdown of injuries that were required to be notified to NSW Trade & Investment under the relevant coal and non-coal legislation because of the nature of injury and under the relevant Petroleum (Onshore) legislation where the injury required immediate attention by a medical practitioner.

The classification of serious bodily injuries (SBIs) remains consistent under the new coal and non-coal legislation, although it omits dislocations and is slightly more inclusive for certain fractures and amputations.

Note that Petroleum (Onshore) serious bodily injuries are notified at a lower threshold than for the rest of the industry, and are not included in the analysis by event subtype, mechanism, agency, nature of injury, bodily location, age group and employment type.

Note also that the measure of serious bodily injuries is not directly comparable to other mining jurisdictions or the WorkCover Authority of NSW, which use varying definitions for disability injuries.

In 2012-13:

- SBIs were predominantly associated with falls of person, and fractures were the most common nature of injury. Arm, hand, finger, wrist and leg injuries featured prominently. The majority of SBIs were to direct mine employees, just over two thirds occurred in underground operations and all were related to the work environment or mobile mechanical plant.
- The Coal, Metalliferous & Extractives SBIFR of 0.39 was 40% below the five year average of 0.65
- The Coal sector SBIFR of 0.43 was 34.8% below the five year average of 0.66
- The Metalliferous & Extractives sector SBIFR of 0.28 was 55.6% below the five year average of 0.63

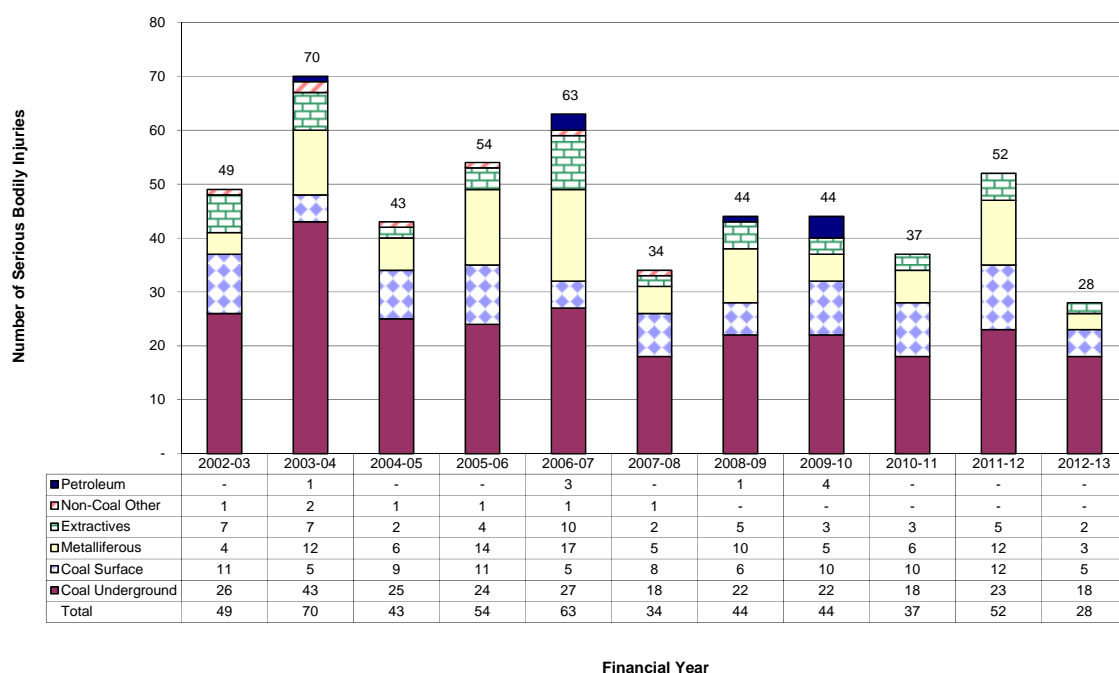
From 2011-12 to 2012-13:

- Overall, Coal, Metalliferous and Extractives SBIs fell 46% from 52 to 28
- Coal sector SBIs fell 34.3% from 35 to 23
- Metalliferous sector SBIs fell 75% from 12 to 3
- Extractives sector SBIs fell 60% from 5 to 2
- Overall, Metalliferous & Extractives sector SBIs fell 70.6% from 17 to 5
- There were zero Petroleum (Onshore) SBIs

Refer to the Definitions, COMET Database Terms and Appendix B for details of the classifications used.

5.5.1 Serious Bodily Injuries by Sector

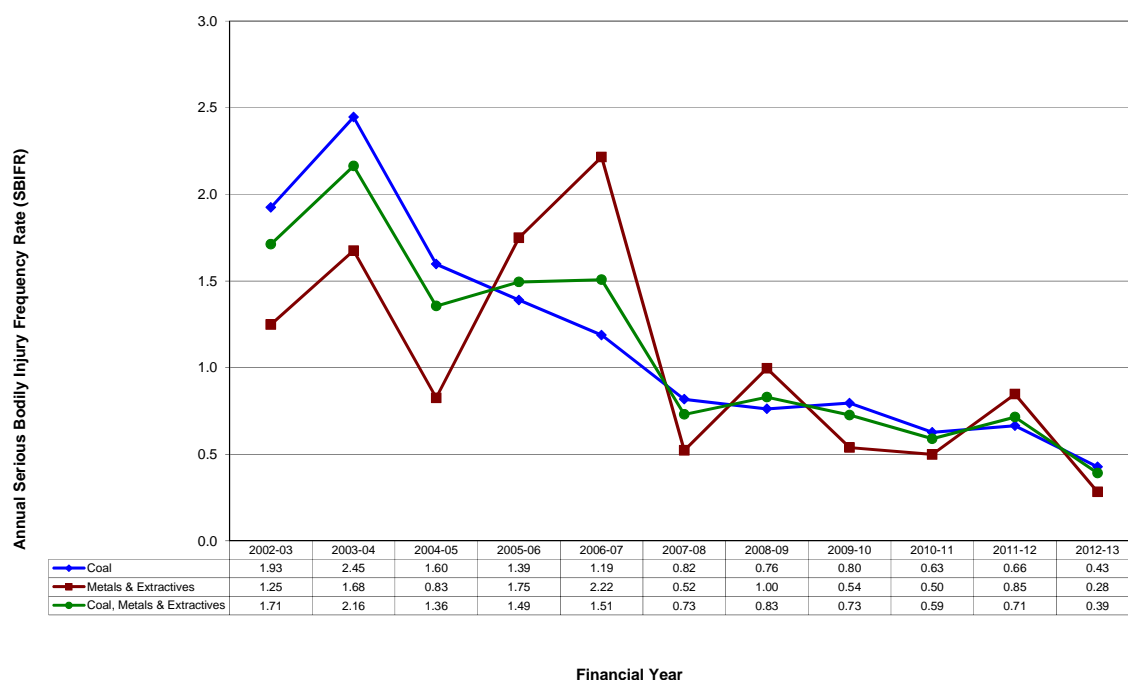
Figure 100
Serious Bodily Injuries by Sector 2002-03 to 2012-13



Refer to Appendix A.6 for further details of Serious Bodily Injuries by Sector and Operation Type.

5.5.2 Annual Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13

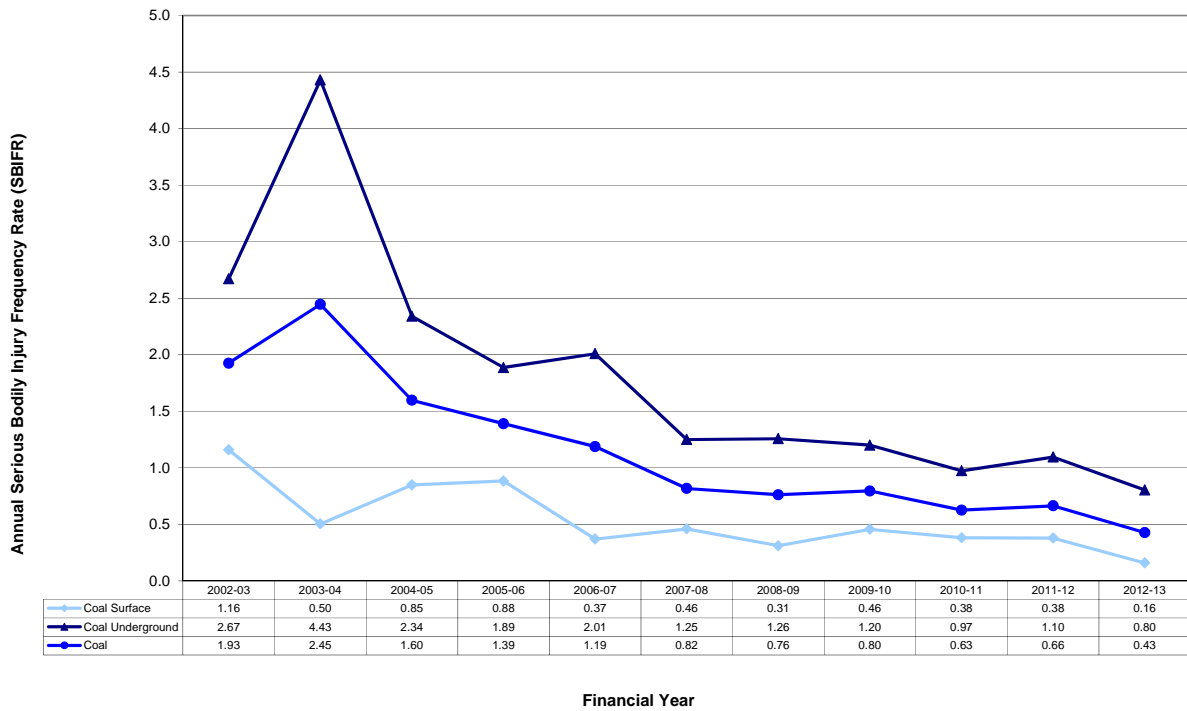
Figure 101
NSW Coal, Metalliferous & Extractives Annual Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13



Refer to Figure 3 for Five Year Average Serious Bodily Injury Frequency Rate 2001-02 to 2012-13

Figure 102

NSW Coal Annual Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13



Financial Year

Figure 103

NSW Metalliferous & Extractives Annual Serious Bodily Injury Frequency Rate (SBIFR) 2002-03 to 2012-13



Financial Year

5.5.3 Serious Bodily Injuries by Event Subtype

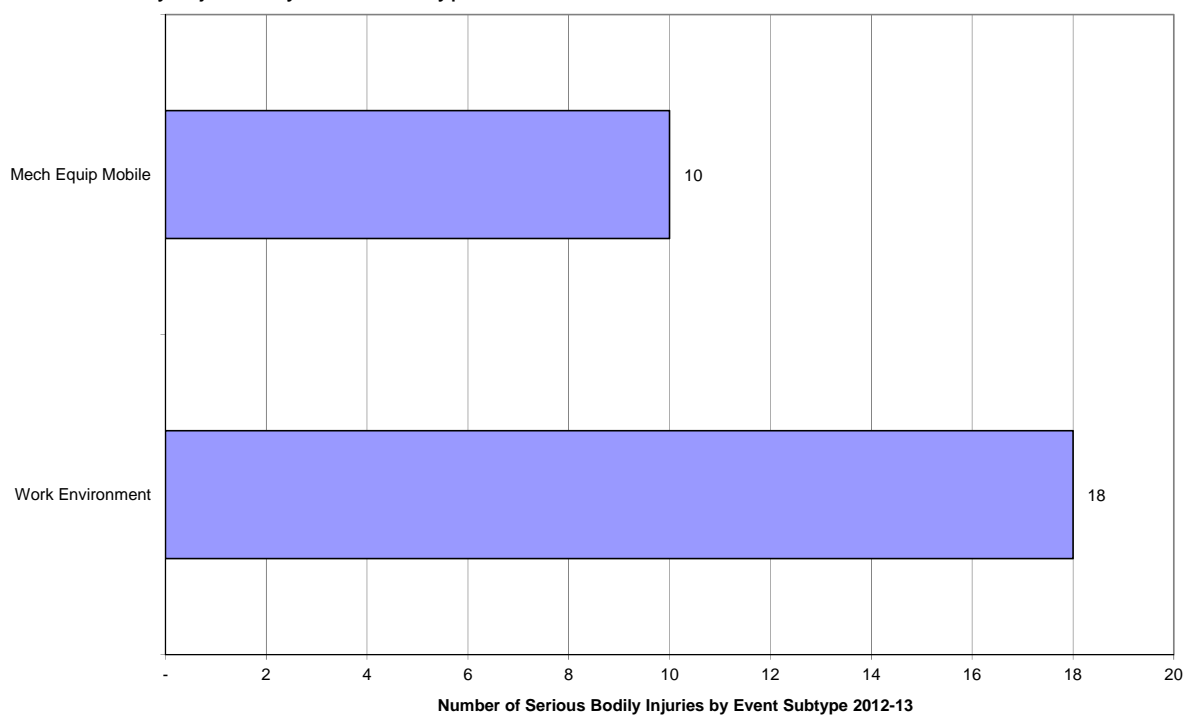
Figure 104

Serious Bodily Injuries by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Work Environment	16	30	15	17	19	17	19	23	24	43	18	241
Mech Equip Mobile	21	23	22	24	31	15	21	13	11	9	10	200
Mech Equip Fixed	6	7	1	6	6	2	2	1	1	-	-	32
Strata/Ground Control	3	4	2	3	1	-	-	2	-	-	-	15
Electrical Energy	-	4	3	2	-	-	-	1	-	-	-	10
Hazardous Materials	3	-	-	-	-	-	1	-	-	-	-	4
Structural Failure	-	1	-	-	2	-	-	-	-	-	-	3
Gas	-	-	-	1	1	-	-	-	-	-	-	2
Explosives	-	-	-	-	-	-	-	-	1	-	-	1
Water	-	-	-	1	-	-	-	-	-	-	-	1
Total	49	69	43	54	60	34	43	40	37	52	28	509

Figure 105

Serious Bodily Injuries by Event Subtype 2012-13

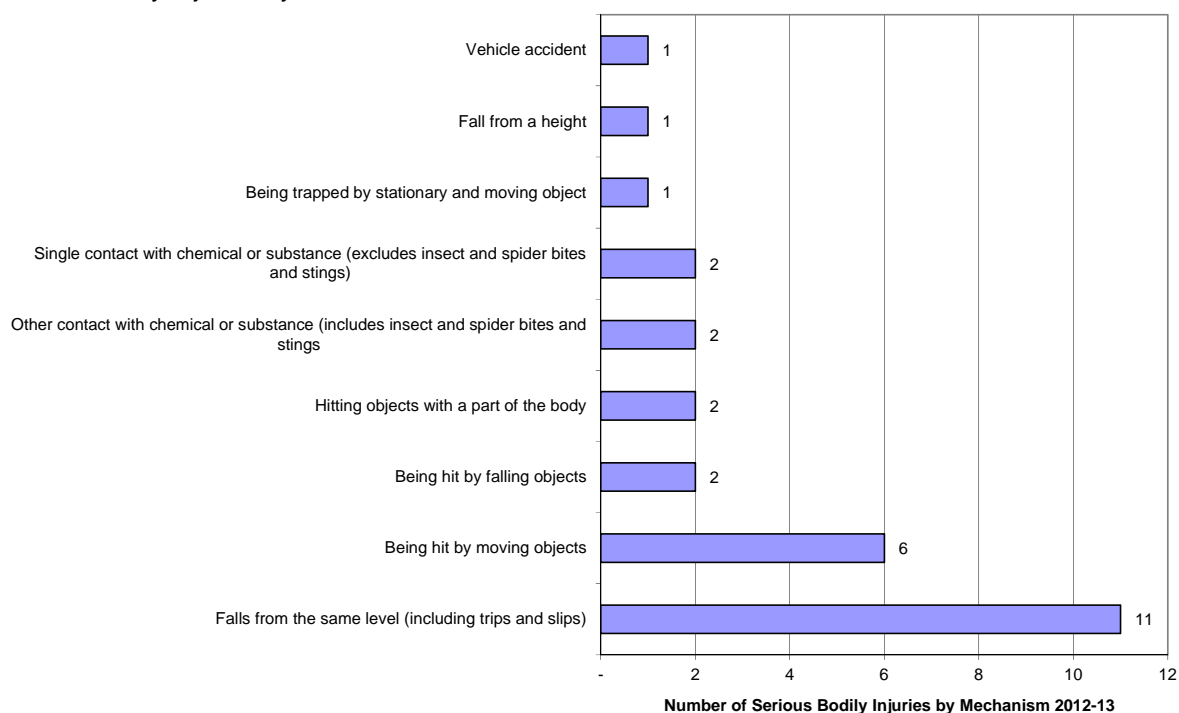


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Event Subtype.

5.5.4 Serious Bodily Injuries by Mechanism

Figure 106

Serious Bodily Injuries by Mechanism 2012-13

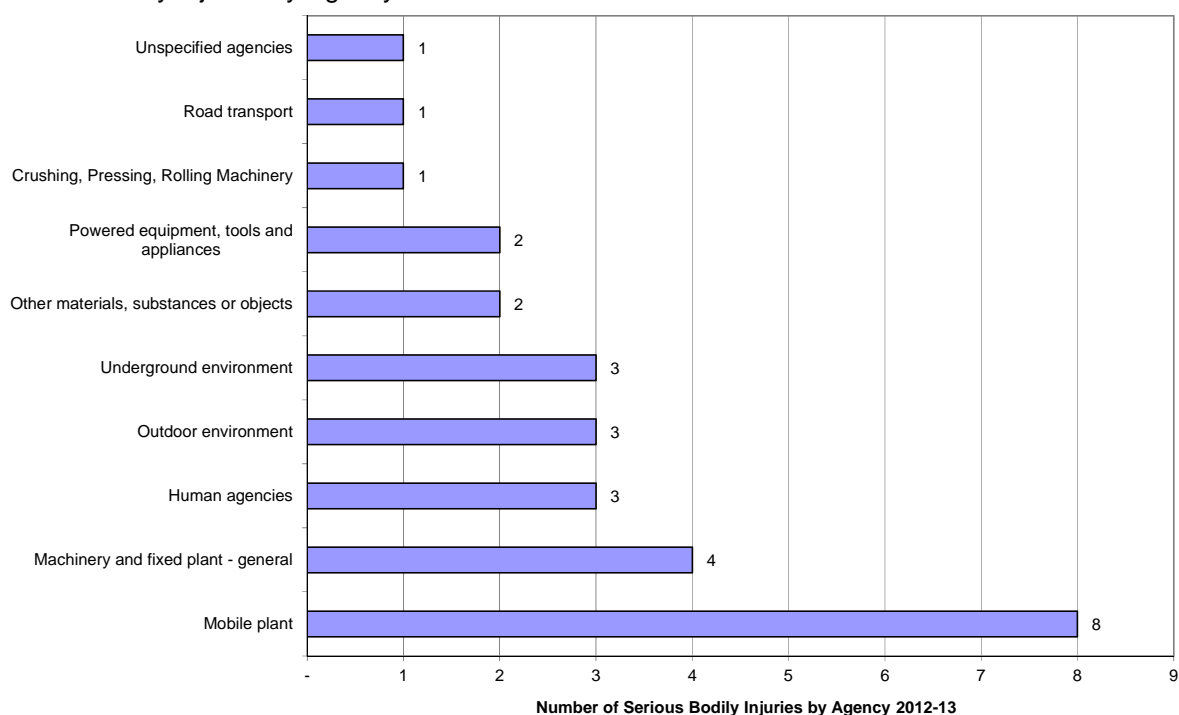


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Mechanism.

5.5.5 Serious Bodily Injuries by Agency

Figure 107

Serious Bodily Injuries by Agency 2012-13

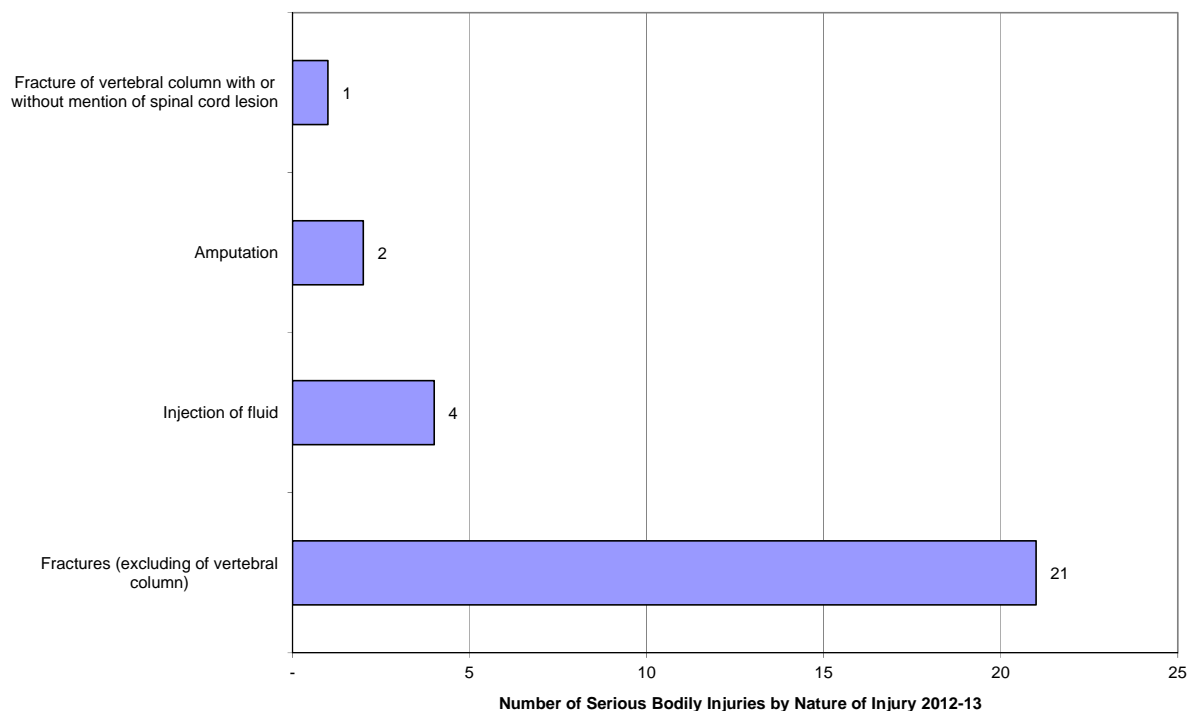


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Agency.

5.5.6 Serious Bodily Injuries by Nature of Injury

Figure 108

Serious Bodily Injuries by Nature of Injury 2012-13

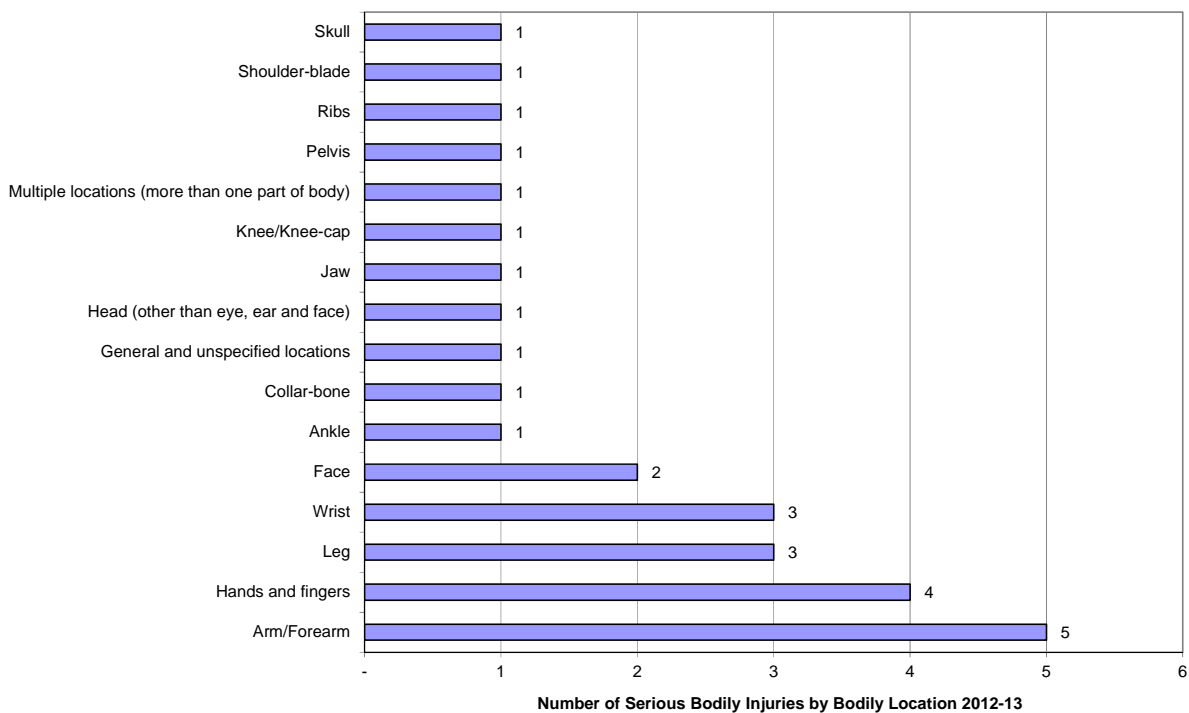


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Nature of Injury.

5.5.7 Serious Bodily Injuries by Bodily Location

Figure 109

Serious Bodily Injuries by Bodily Location 2012-13

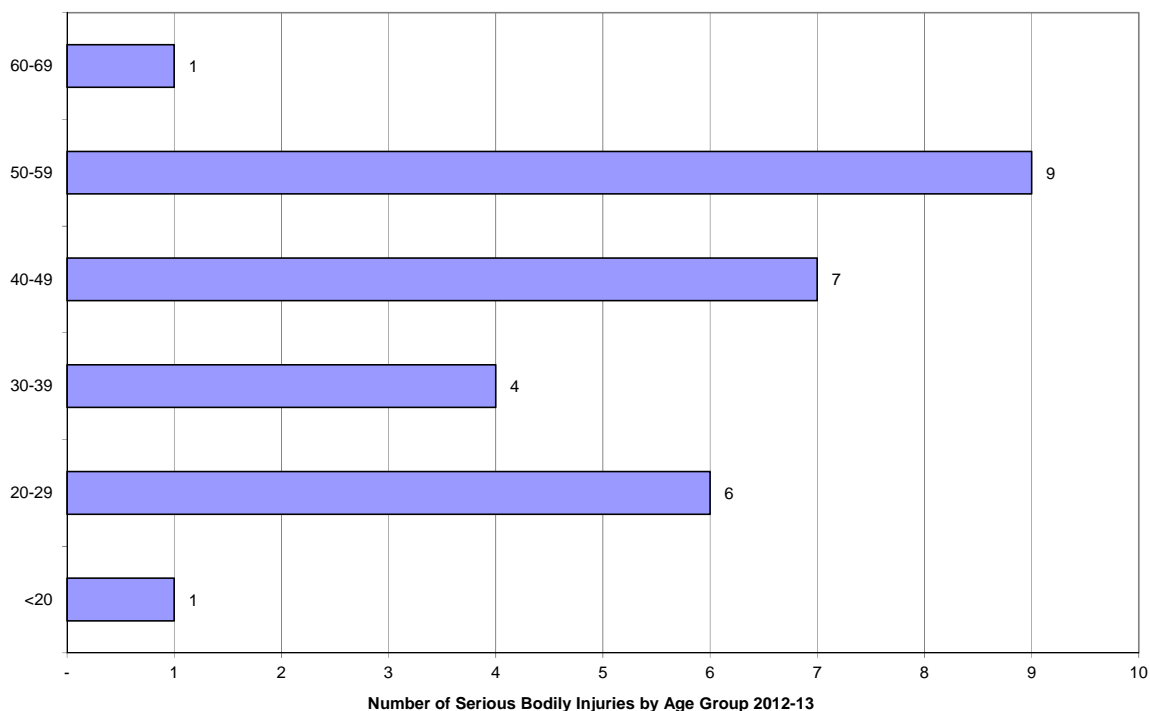


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Bodily Location.

5.5.8 Serious Bodily Injuries by Age Group

Figure 110

Serious Bodily Injuries by Age Group 2012-13

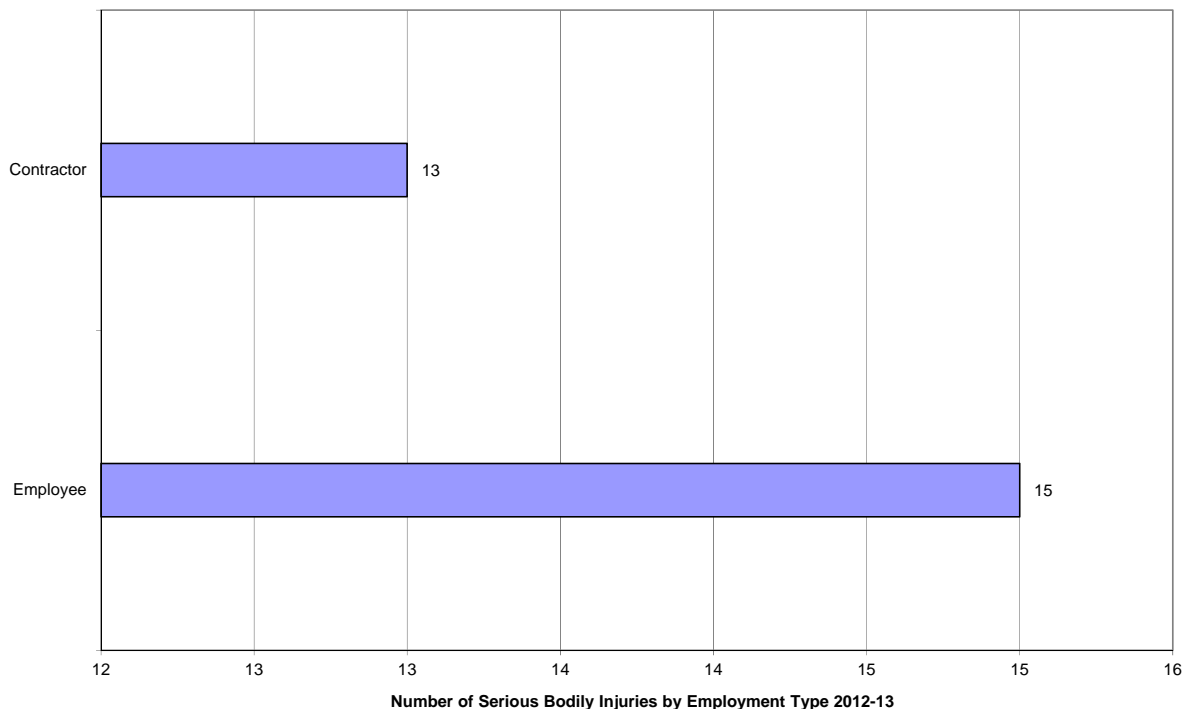


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Age Group.

5.5.9 Serious Bodily Injuries by Employment Type

Figure 111

Serious Bodily Injuries by Employment Type 2012-13



Refer to Appendix A.6 for further details of Serious Bodily Injuries by Employment Type.

5.6 Notifiable Injury Outcomes

This section provides a breakdown of injuries with outcomes that were required to be notified to NSW Trade & Investment.

An injury may result in one or more of the following notifiable injury outcomes:

- Fatality
- Entrapment
- Loss of consciousness
- Hospital inpatient admission
- At least seven days of lost time and/or alternative duties

These injury outcomes (except fatality) became reportable from mid-2007 for Coal under CMHSR 2006 Clauses 55, 56 and 57, and from the second quarter of 2008-09 for Non-Coal, under MHSR 2007 Clause 145 and 146.

In 2012-13:

- The most common causes of injuries with notifiable outcomes were muscular stressing, falls (including slips and trips) or being hit by moving or falling objects. The most common natures of injury were sprains and strains. Hand and finger injuries featured prominently, 78.2% occurred in underground operations and the majority were related to either the work environment or mobile mechanical equipment.

From 2011-12 to 2012-13:

- The number of injuries in the Coal sector that resulted in an outcome of at least seven days lost time and/or alternative duties decreased by 15.7% from 433 to 365 and the number of injuries that resulted in an outcome of hospital inpatient admission decreased by 11.4% from 105 to 93.
- The number of injuries in the Non-Coal sector that resulted in an outcome of at least seven days lost time and/or alternative duties decreased by 41.7% from 24 to 14 and the number of injuries that resulted in an outcome of hospital inpatient admission decreased by 32% from 28 to 19.

Refer to the Definitions, COMET Database Terms and Appendix B for details of the classifications used.

5.6.1 Notifiable Injury Outcomes by Injury Outcome

Figure 112

Notifiable Injury Outcomes by Injury Outcome mid 2006-07 to 2012-13

Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
>=7 days lost time/alternative duties	193	426	417	422	429	457	379	2,723
Hospital inpatient admission	34	75	101	122	106	133	112	683
Lost consciousness	3	5	4	6	-	1	10	29
Entrapment	-	-	3	1	1	1	1	7
Fatality	-	-	3	-	1	-	2	6
Total	230	506	528	551	537	592	504	3,448

Figure 113

Notifiable Injury Outcomes by Injury Outcome mid 2006-07 to 2012-13

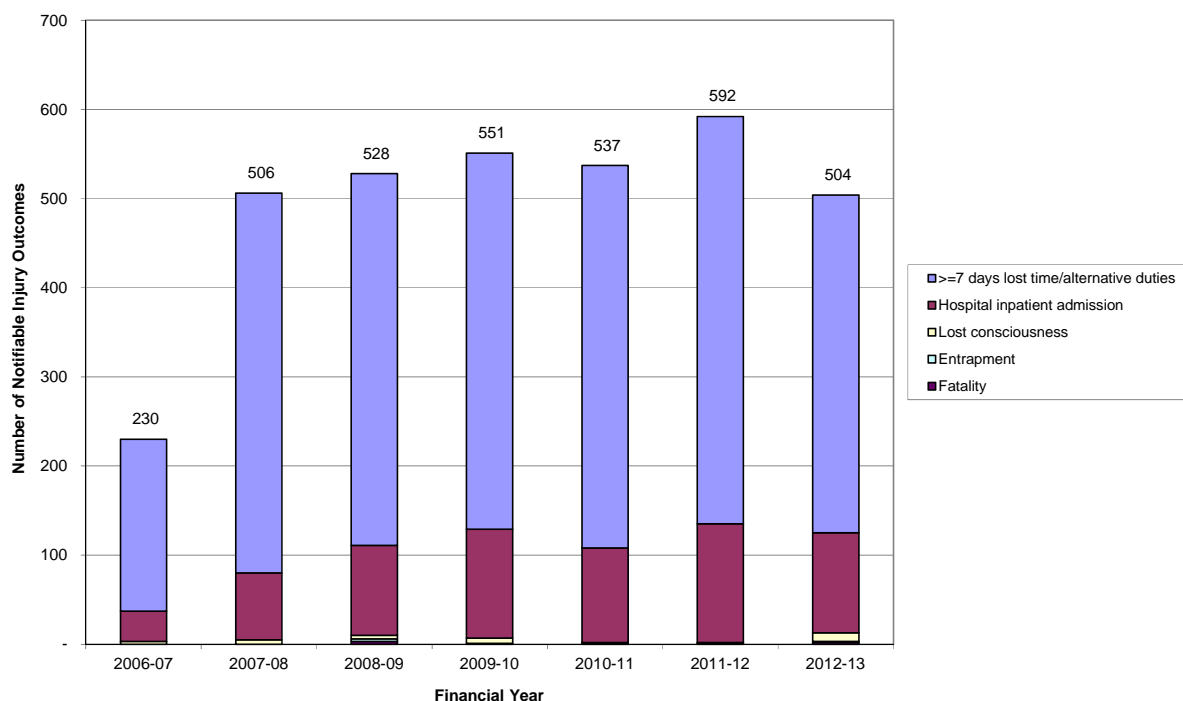
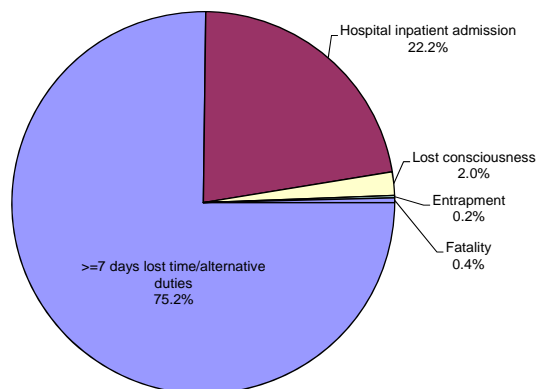


Figure 114

Notifiable Injury Outcomes 2012-13

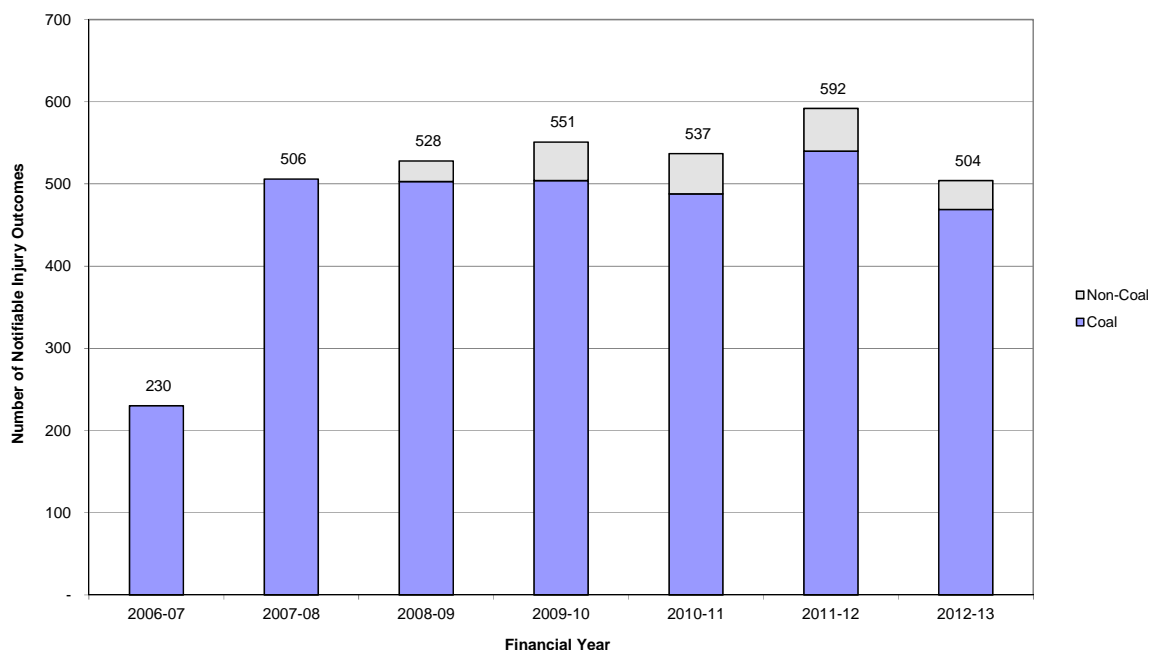


Refer to Appendix A.7 for further details of Notifiable Injury Outcomes.

5.6.2 Notifiable Injury Outcomes by Sector

Figure 115

Notifiable Injury Outcomes by Sector mid 2006-07 to 2012-13

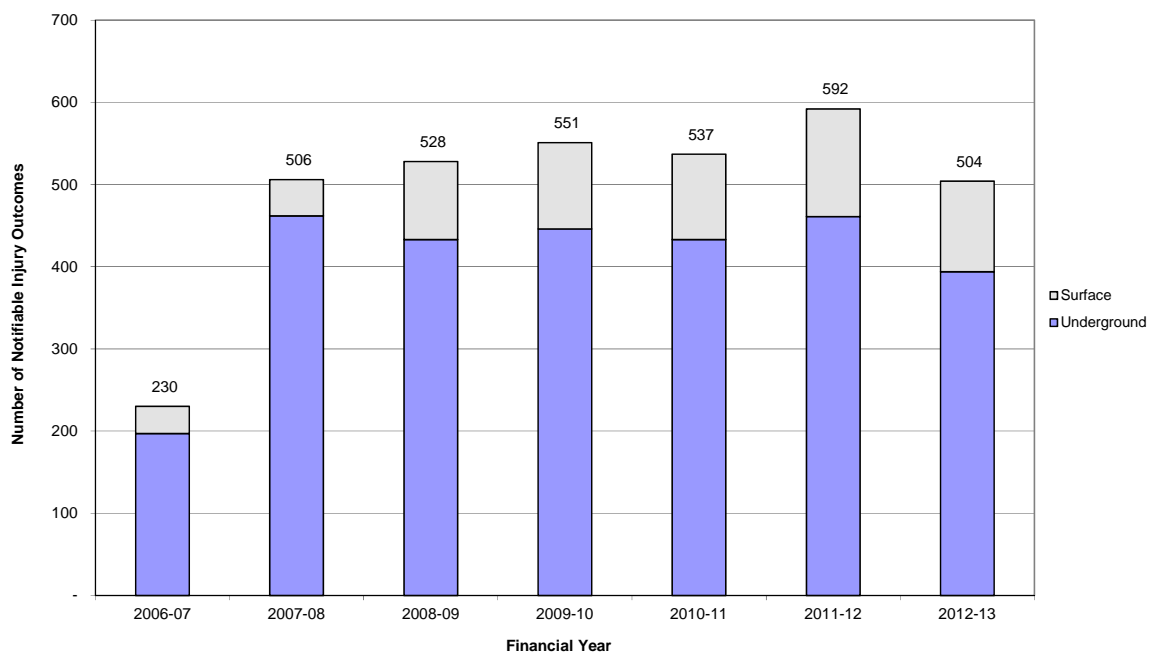


Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Sector

5.6.3 Notifiable Injury Outcomes by Operation Type

Figure 116

Notifiable Injury Outcomes by Surface/Underground Operation mid 2006-07 to 2012-13



Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Operation Type

5.6.4 Notifiable Injury Outcomes by Event Subtype

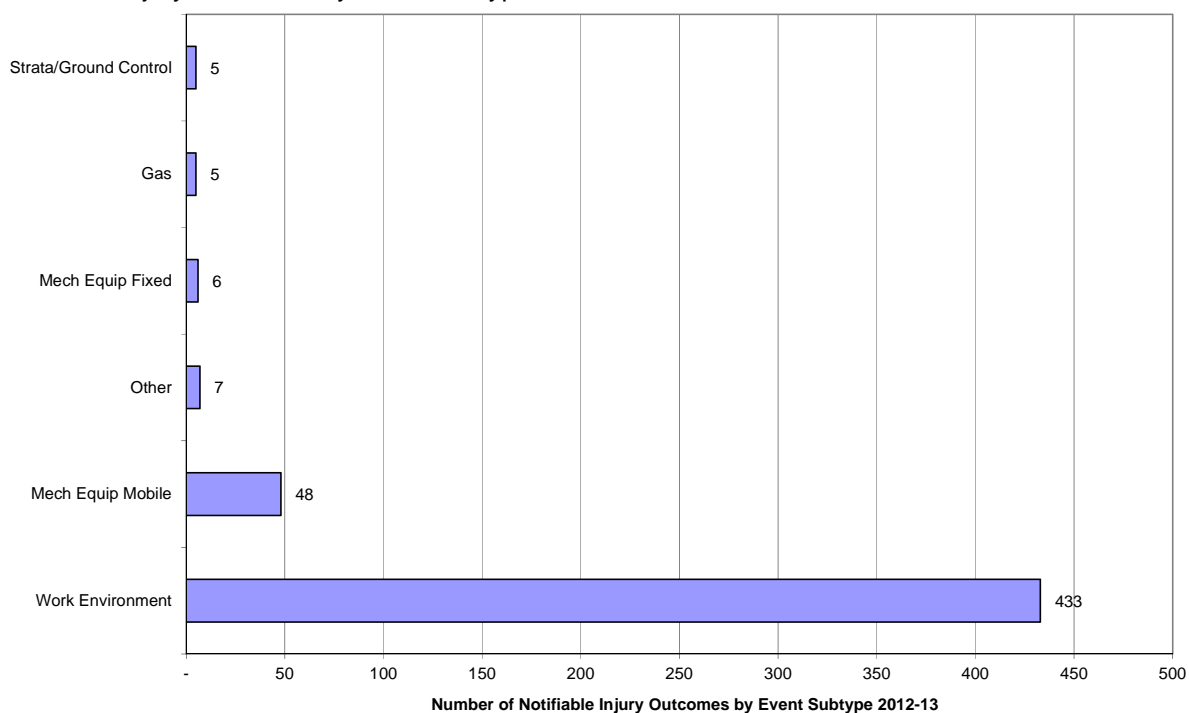
Figure 117

Notifiable Injury Outcomes by Event Subtype mid 2006-07 to 2012-13

Event Subtype	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Work Environment	129	312	325	367	409	507	433	2,482
Mech Equip Mobile	87	178	174	153	97	69	48	806
Mech Equip Fixed	6	8	17	14	15	10	6	76
Strata/Ground Control	3	2	6	8	5	2	5	31
Electrical Energy	1	2	5	5	3	4	-	20
Hazardous Materials	3	2	-	2	1	-	-	8
Explosives	-	-	-	2	5	-	-	7
Gas	-	2	-	-	-	-	5	7
Other	-	-	-	-	-	-	7	7
Structural Failure	1	-	1	-	-	-	-	2
Self Heating	-	-	-	-	1	-	-	1
Water	-	-	-	-	1	-	-	1
Total	230	506	528	551	537	592	504	3,448

Figure 118

Notifiable Injury Outcomes by Event Subtype 2012-13



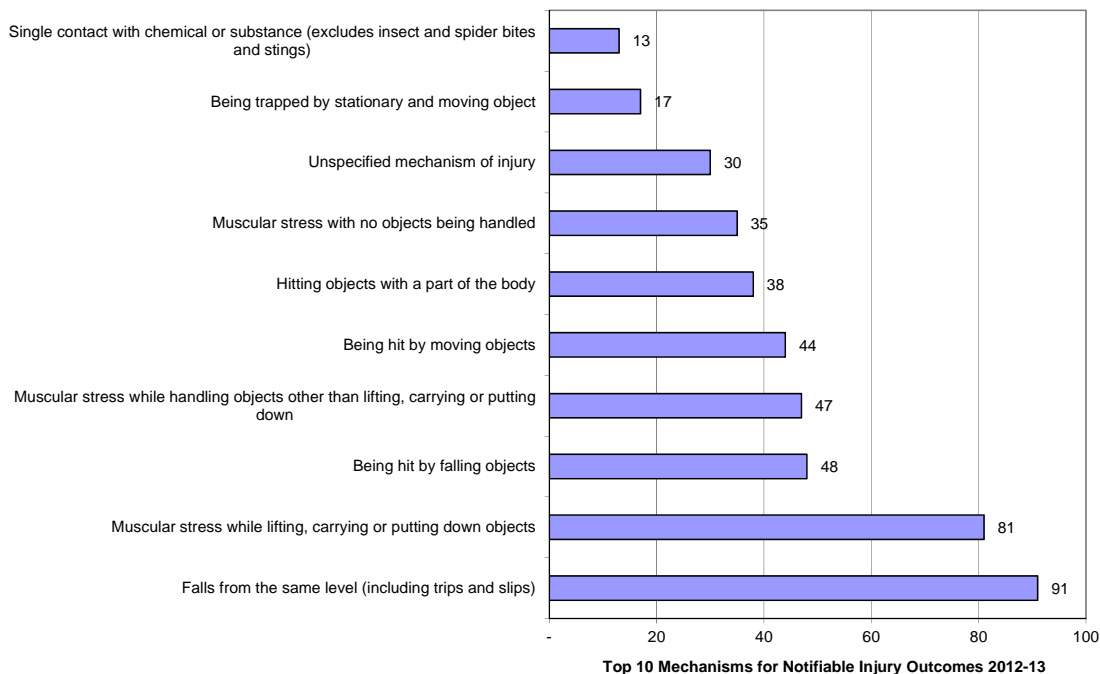
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Event Subtype.

5.6.5 Notifiable Injury Outcomes by Mechanism

Figure 119

Top 10 Mechanisms for Notifiable Injury Outcomes 2012-13

The top 10 mechanisms represent 444 (88%) of 504 notifiable injury outcomes.



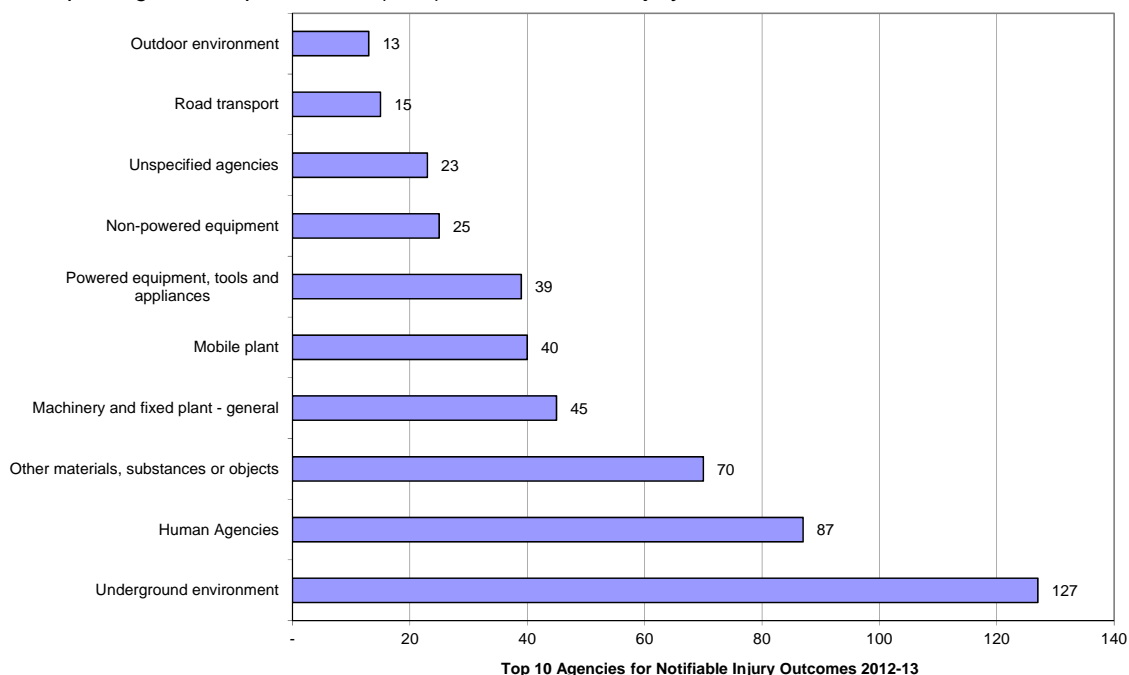
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Mechanism.

5.6.6 Notifiable Injury Outcomes by Agency

Figure 120

Top 10 Agencies for Notifiable Injury Outcomes 2012-13

The top 10 agencies represent 484 (96%) of 504 notifiable injury outcomes.



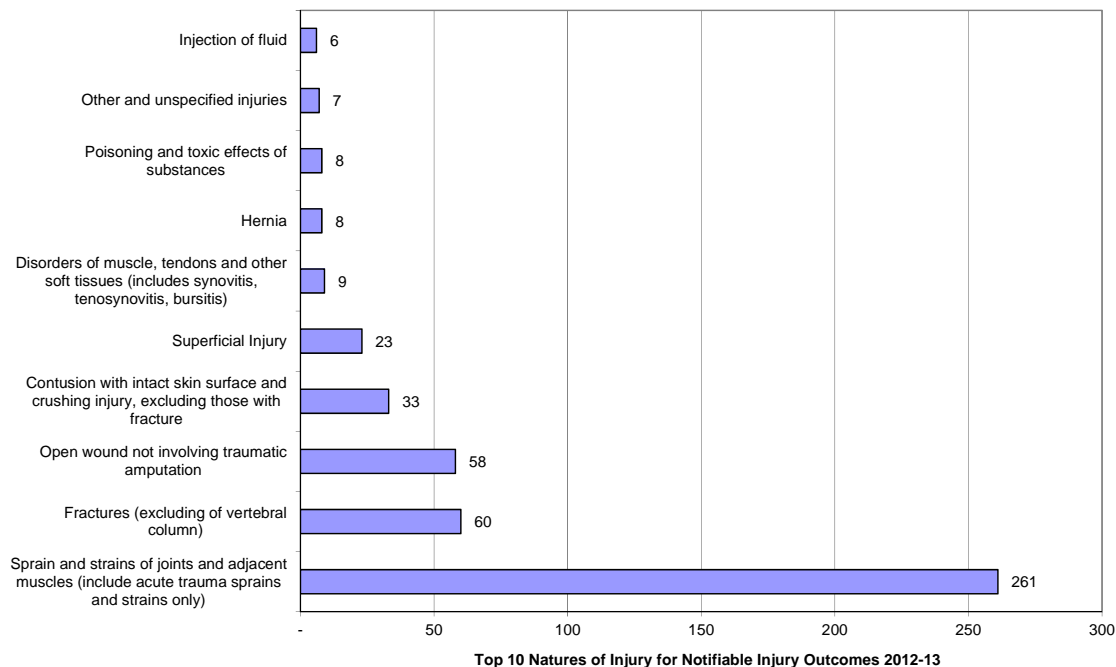
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Agency.

5.6.7 Notifiable Injury Outcomes by Nature of Injury

Figure 121

Top 10 Natures of Injury for Notifiable Injury Outcomes 2012-13

The top 10 natures of injury represent 473 (94%) of 504 notifiable injury outcomes.



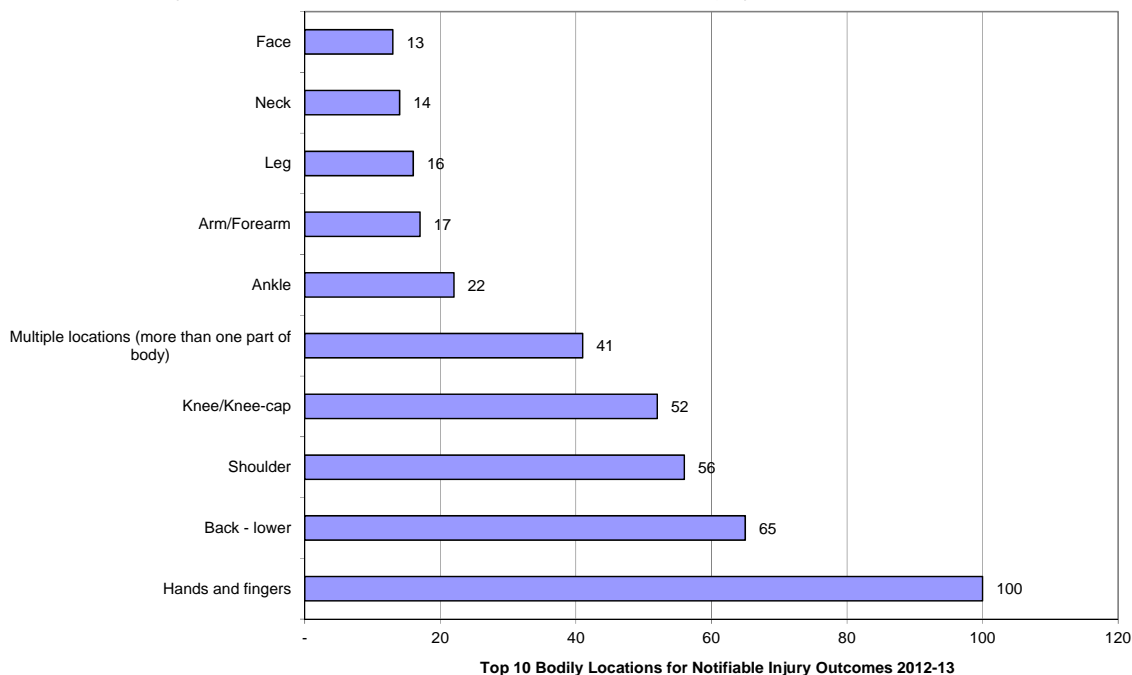
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Nature of Injury.

5.6.8 Notifiable Injury Outcomes by Bodily Location

Figure 122

Top 10 Bodily Locations for Notifiable Injury Outcomes 2012-13

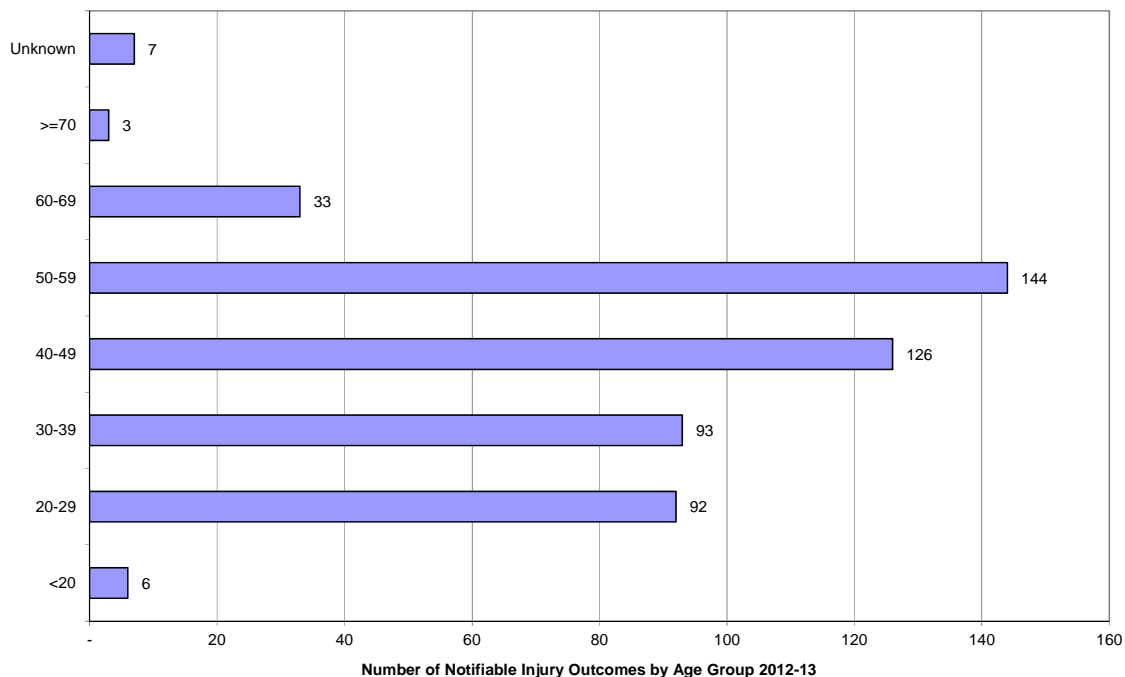
The top 10 bodily locations represent 396 (79%) of 504 notifiable injury outcomes



Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Bodily Location.

5.6.9 Notifiable Injury Outcomes by Age Group

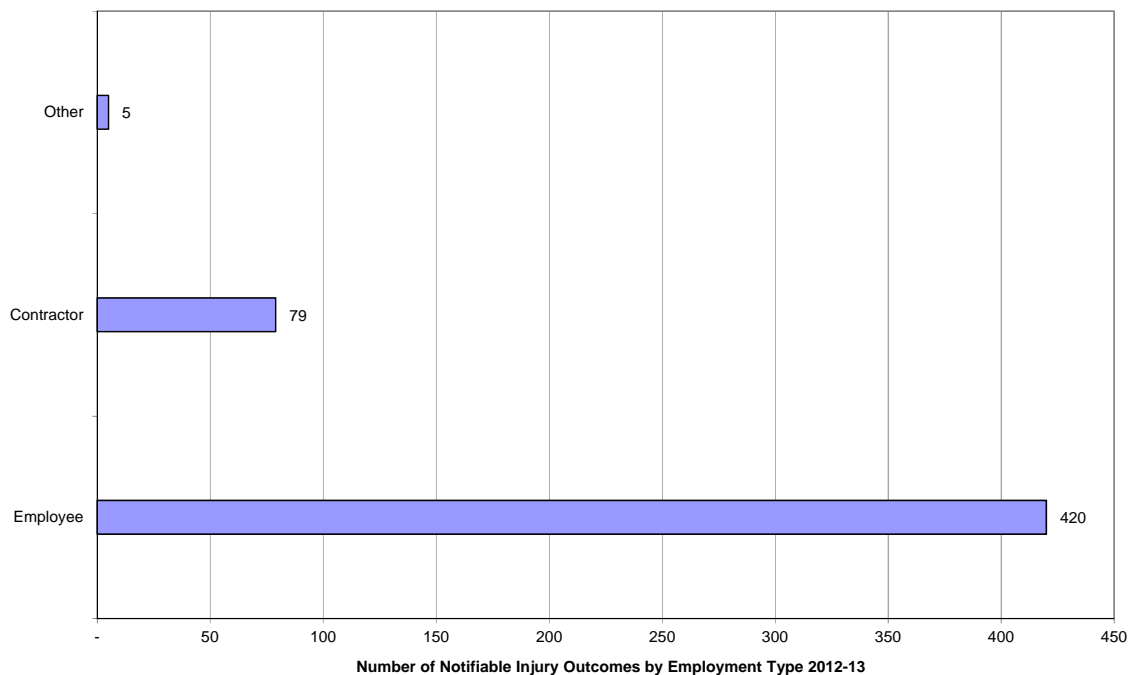
Figure 123
Notifiable Injury Outcomes by Age Group 2012-13



Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Age Group.

5.6.10 Notifiable Injury Outcomes by Employment Type

Figure 124
Notifiable Injury Outcomes by Employment Type 2012-13



Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Employment Type.

6 ASSESSMENTS

6.1 All Assessments

This section reports on formal and informal mining, electrical and mechanical inspections, audits, assessments and reviews conducted by NSW Trade & Investment Inspectors and Mine Safety Officers.

Refer to the Definitions, COMET Database Terms and Appendix B for details of the classifications used.

6.1.1 All Assessments by Sector

Figure 125

All Assessments by Sector 2002-03 to 2012-13

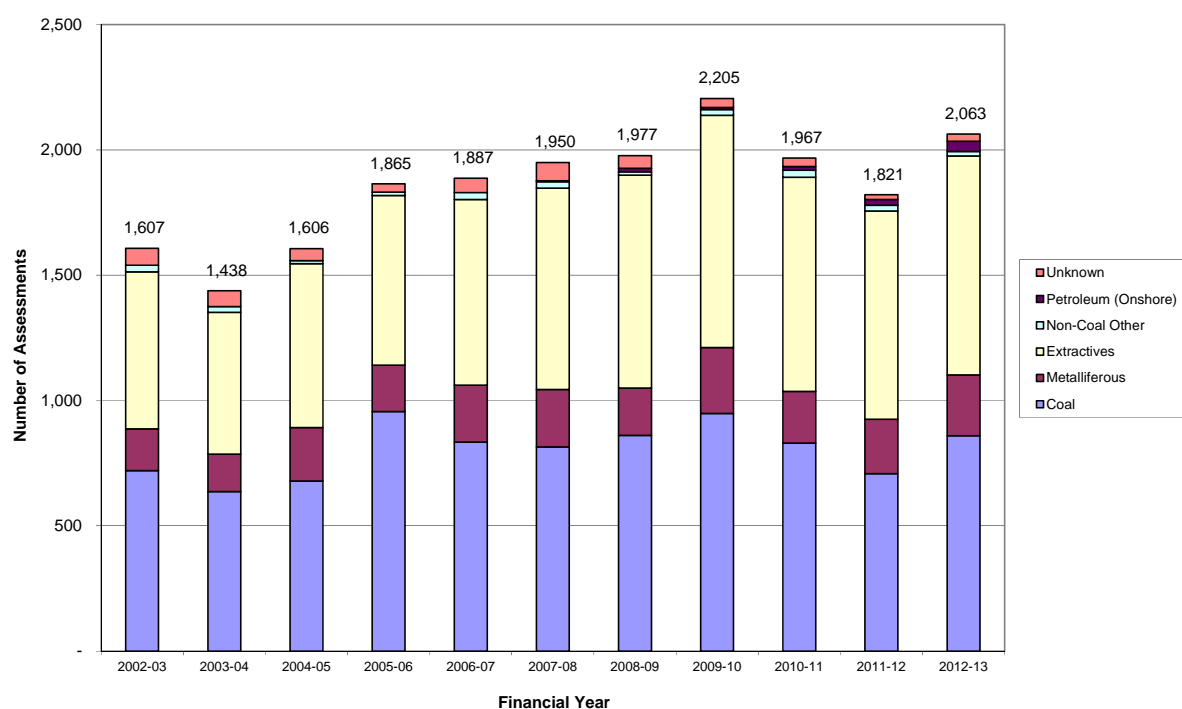
NB "Unknown" refers to assessments conducted for non-mine organisations

Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Coal	720	637	679	956	834	815	861	948	830	708	859	8,847
Metalliferous	167	149	213	185	227	229	189	263	206	217	243	2,288
Extractives	627	566	654	677	741	803	849	927	855	831	874	8,404
Non-Coal Other	26	23	12	13	28	26	13	23	28	23	17	232
Petroleum (Onshore)	-	-	-	-	-	4	15	8	15	23	42	107
Unknown	67	63	48	34	57	73	50	36	33	19	28	508
Total	1,607	1,438	1,606	1,865	1,887	1,950	1,977	2,205	1,967	1,821	2,063	20,386

Figure 126

All Assessments by Sector 2002-03 to 2012-13

NB "Unknown" refers to assessments conducted for non-mine organisations



6.1.2 All Assessments by Operation Type

Figure 127

All Assessments by Operation Type 2002-03 to 2012-13

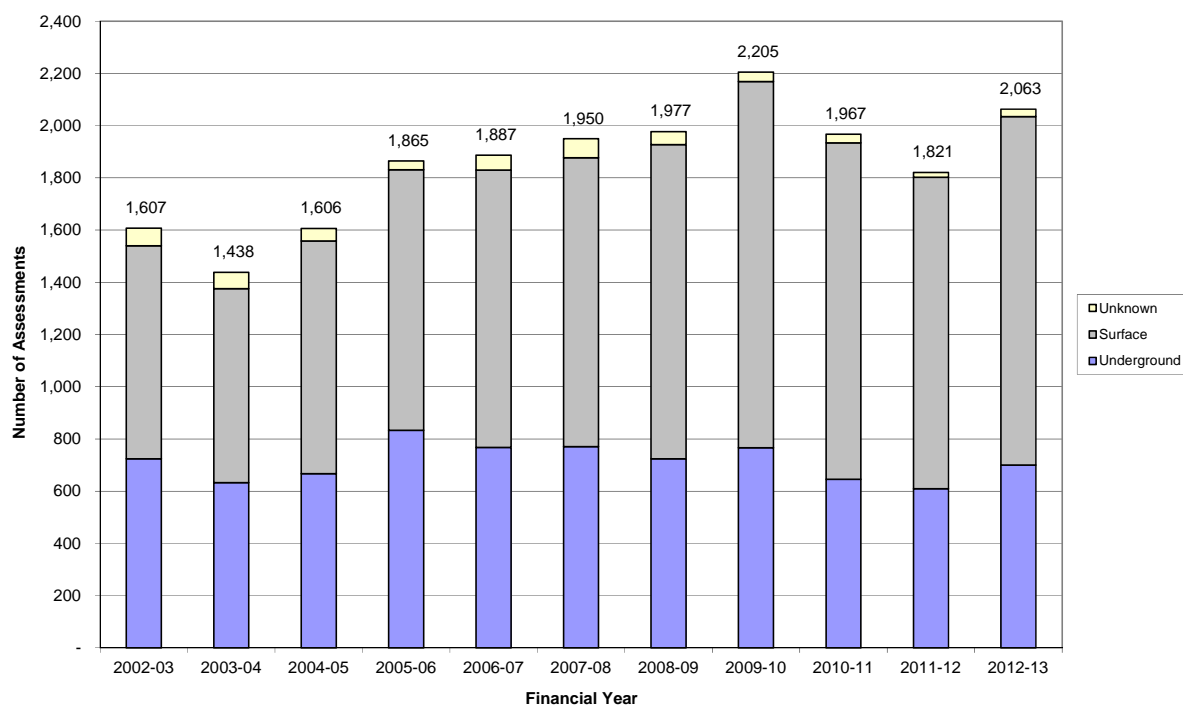
NB "Unknown" refers to assessments conducted for non-mine organisations

Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Underground	724	633	667	833	768	771	724	766	646	609	700	7,841
Surface	816	742	891	998	1,062	1,106	1,203	1,403	1,288	1,193	1,335	12,037
Unknown	67	63	48	34	57	73	50	36	33	19	28	508
Total	1,607	1,438	1,606	1,865	1,887	1,950	1,977	2,205	1,967	1,821	2,063	20,386

Figure 128

All Assessments by Operation Type 2002-03 to 2012-13

NB "Unknown" refers to assessments conducted for non-mine organisations



6.1.3 All Assessments by Event Subtype

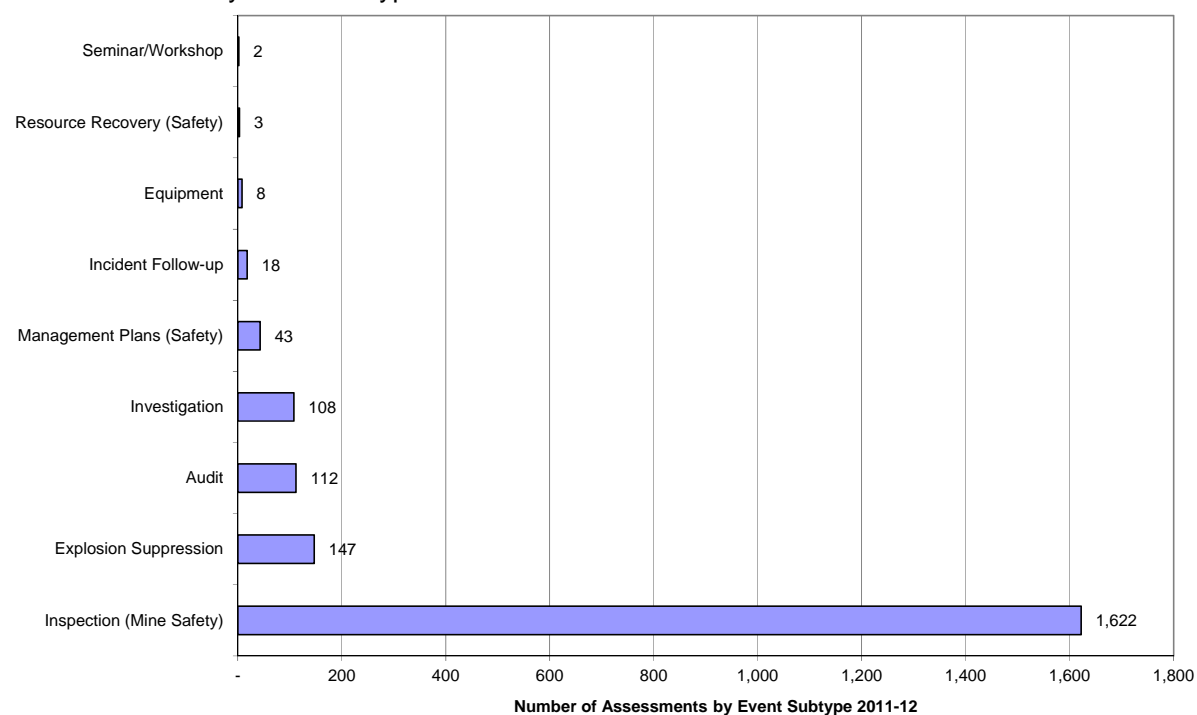
Figure 129

All Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
Inspection (Mine Safety)	1,077	926	1,177	1,272	1,270	1,371	1,386	1,462	1,427	1,443	1,622	14,433	
Audit	232	202	101	287	213	266	304	391	190	87	112	2,385	
Explosion Suppression	178	143	105	90	91	116	103	159	156	120	147	1,408	
Management Plans (Safety)	59	54	86	119	148	58	72	115	118	46	43	918	
Investigation	37	52	44	58	109	105	74	54	53	115	108	809	
Equipment	-	-	44	16	31	9	18	17	18	4	8	165	
Airborne Dust	6	50	34	1	2	8	8	1	-	1	-	111	
Verification	18	10	9	14	16	12	9	3	5	3	-	99	
Incident Follow-up	-	-	-	-	-	-	-	-	-	-	2	18	20
Seminar/Workshop	-	1	-	5	2	5	3	-	-	-	-	2	18
Closure	-	-	2	2	4	-	-	2	-	-	-	-	10
Resource Recovery (Safety)	-	-	4	1	1	-	-	1	-	-	-	3	10
Total	1,607	1,438	1,606	1,865	1,887	1,950	1,977	2,205	1,967	1,821	2,063	20,386	

Figure 130

All Assessments by Event Subtype 2012-13



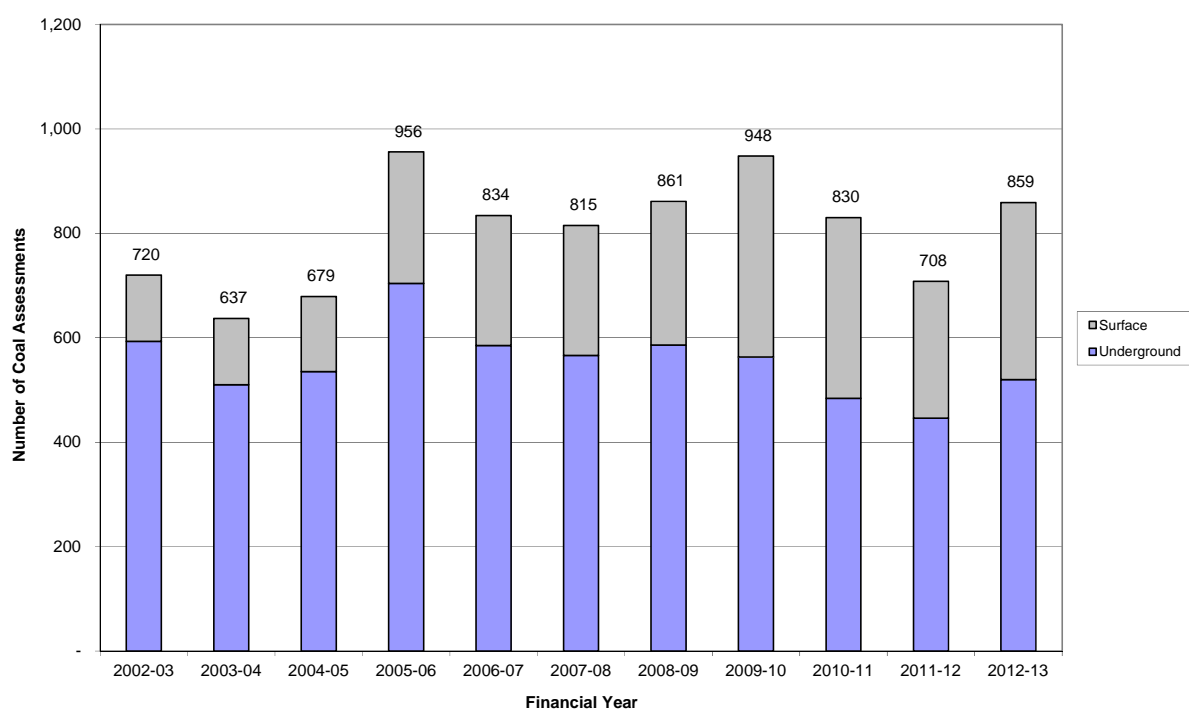
6.2 Coal Assessments

6.2.1 Coal Assessments by Operation Type

Figure 131
Coal Assessments by Operation Type 2002-03 to 2012-13

Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Underground	593	510	535	704	585	566	586	563	484	446	520	6,092
Surface	127	127	144	252	249	249	275	385	346	262	339	2,755
Total	720	637	679	956	834	815	861	948	830	708	859	8,847

Figure 132
Coal Assessments 2002-03 to 2012-13



6.2.2 Coal Assessments by Event Subtype

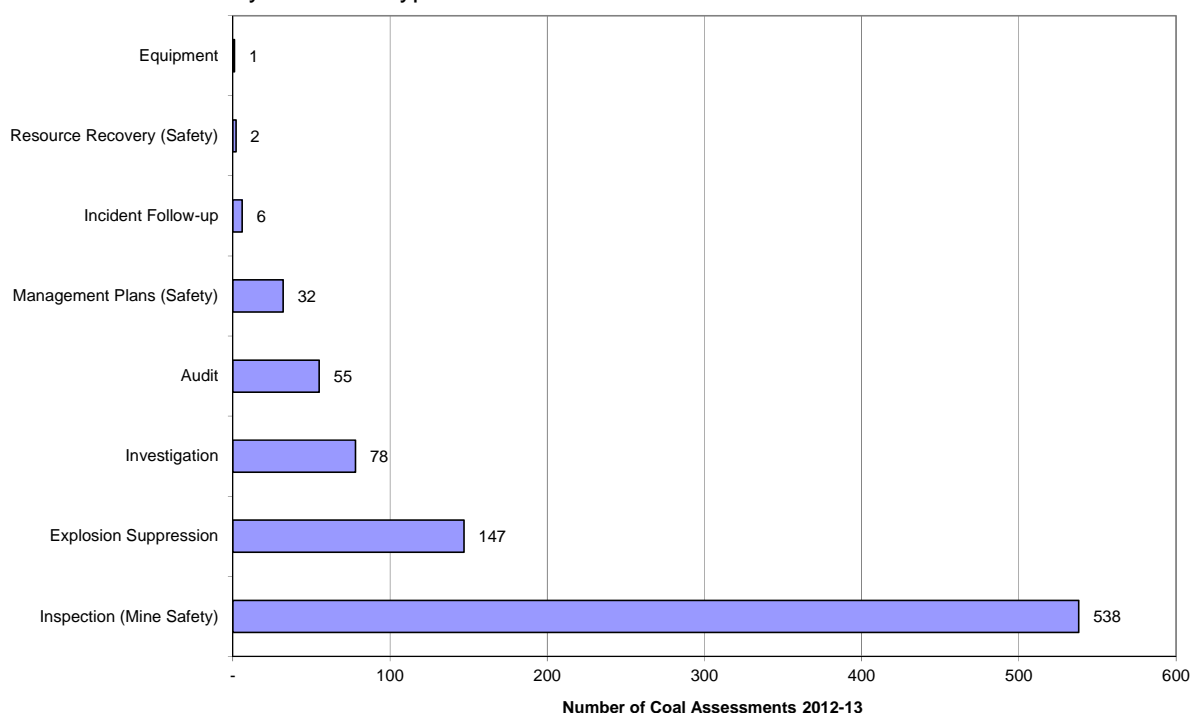
Figure 133

Coal Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	310	281	410	517	400	461	463	516	501	442	538	4,839
Explosion Suppression	177	143	105	90	91	116	103	159	156	120	147	1,407
Audit	183	107	43	224	144	122	187	205	71	37	55	1,378
Management Plans (Safety)	39	41	54	96	132	43	54	57	79	30	32	657
Investigation	4	18	7	17	50	64	40	8	16	75	78	377
Airborne Dust	6	47	34	1	2	4	3	1	-	1	-	99
Equipment	-	-	24	9	14	5	11	1	6	1	1	72
Incident Follow-up	-	-	-	-	-	-	-	-	-	1	6	7
Resource Recovery (Safety)	-	-	1	1	-	-	-	1	-	-	2	5
Verification	1	-	-	1	-	-	-	-	1	1	-	4
Closure	-	-	1	-	-	-	-	-	-	-	-	1
Seminar/Workshop	-	-	-	-	1	-	-	-	-	-	-	1
Total	720	637	679	956	834	815	861	948	830	708	859	8,847

Figure 134

Coal Assessments by Event Subtype 2012-13



Refer to Appendix A.8 for a breakdown of Surface and Underground Coal Assessments by Event Subtype

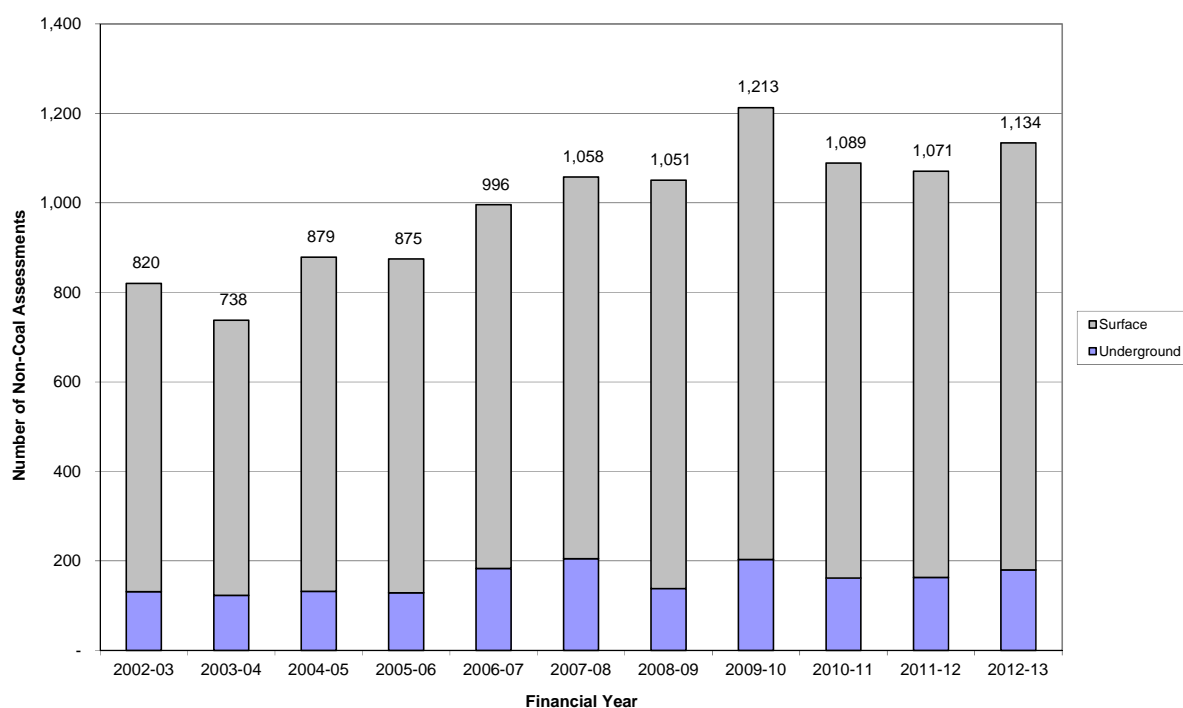
6.3 Non-Coal Assessments

6.3.1 Non-Coal Assessments by Operation Type

Figure 135
Non-Coal Assessments by Operation Type 2002-03 to 2012-13

Operation Type	Mine Category	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Surface	Metalliferous	63	56	101	73	57	60	62	81	65	71	75	764
	Extractives	622	558	645	668	729	787	842	917	843	825	866	8,302
	Non-Coal Other	4	1	1	5	27	6	9	12	19	12	13	109
	Total	689	615	747	746	813	853	913	1,010	927	908	954	9,175
Underground	Metalliferous	104	93	112	112	170	169	127	182	141	146	168	1,524
	Extractives	5	8	9	9	12	16	7	10	12	6	8	102
	Non-Coal Other	22	22	11	8	1	20	4	11	9	11	4	123
	Total	131	123	132	129	183	205	138	203	162	163	180	1,749
Total		820	738	879	875	996	1,058	1,051	1,213	1,089	1,071	1,134	10,924

Figure 136
Non-Coal Assessments 2002-03 to 2012-13



6.3.2 Non-Coal Metalliferous Assessments by Event Subtype

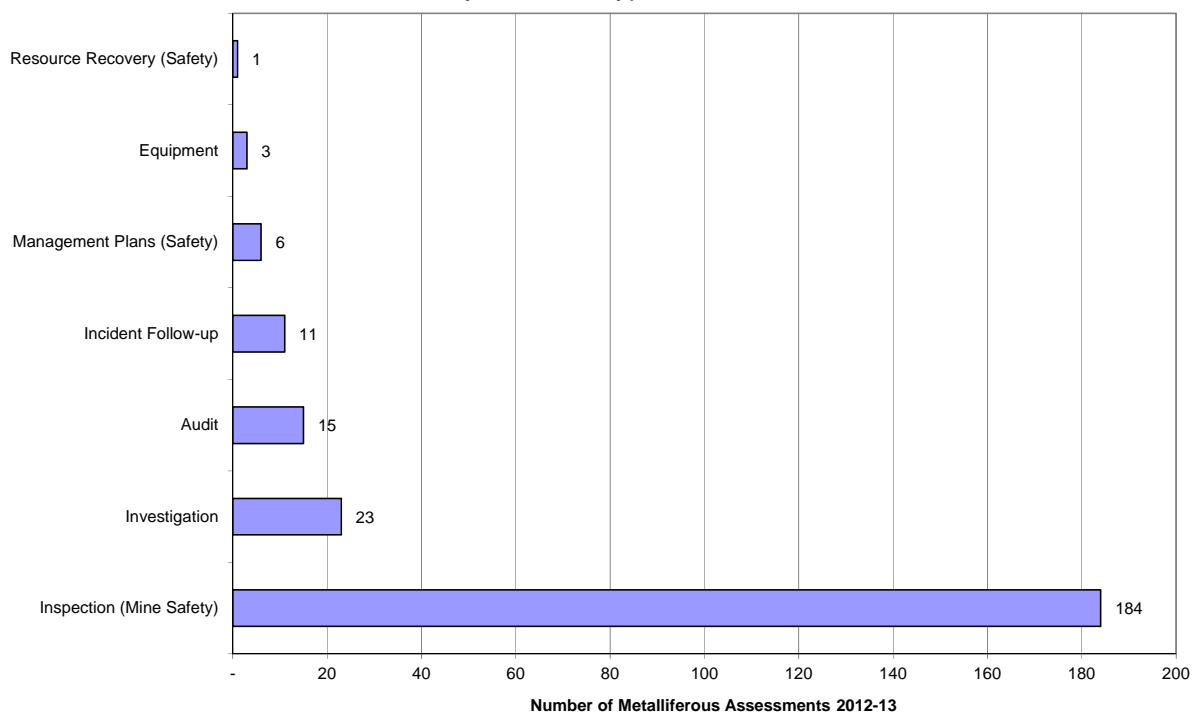
Figure 137

Non-Coal Metalliferous Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	125	113	164	134	148	151	142	173	133	167	184	1,634
Investigation	21	18	23	16	43	28	21	39	30	26	23	288
Audit	10	9	6	24	16	31	18	29	24	9	15	191
Management Plans (Safety)	4	3	7	5	3	8	4	10	8	12	6	70
Verification	7	6	8	5	13	11	4	2	2	-	-	58
Equipment	-	-	2	1	4	-	-	10	9	3	3	32
Incident Follow-up	-	-	-	-	-	-	-	-	-	-	11	11
Resource Recovery (Safety)	-	-	3	-	-	-	-	-	-	-	1	4
Total	167	149	213	185	227	229	189	263	206	217	243	2,288

Figure 138

Non-Coal Metalliferous Assessments by Event Subtype 2012-13



Refer to Appendix A.8 for a breakdown of Surface and Underground Non-Coal Metalliferous Assessments by Event Subtype

6.3.3 Non-Coal Extractives Assessments by Event Subtype

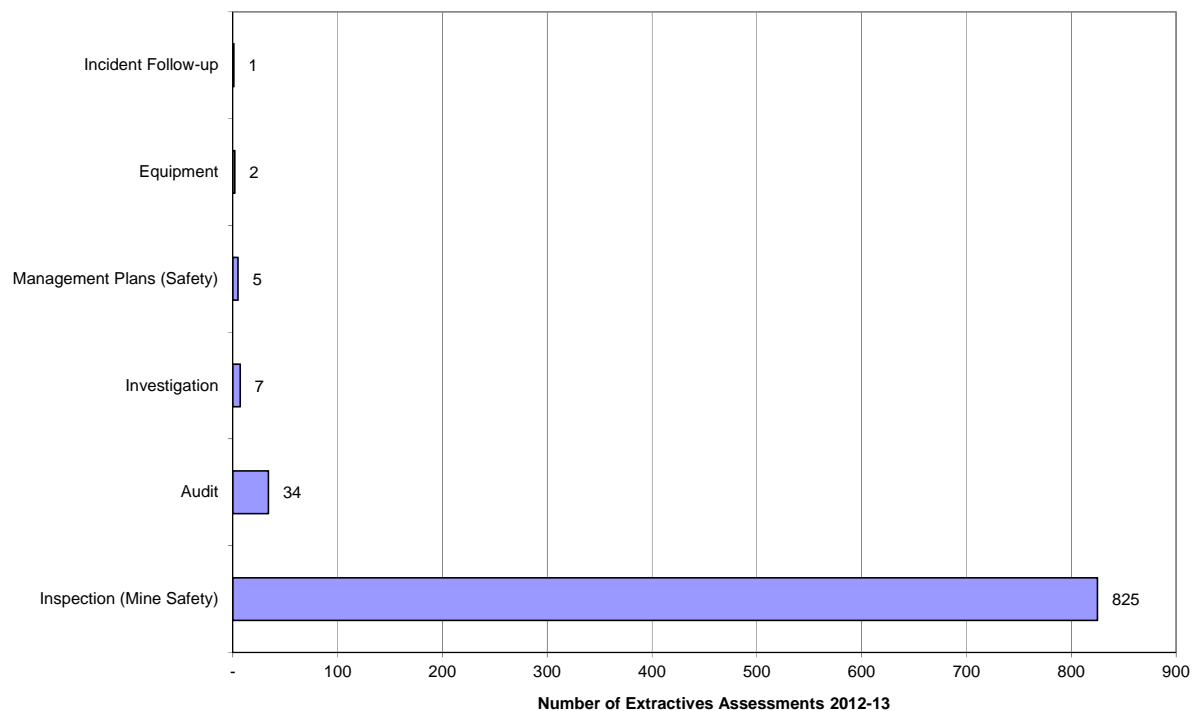
Figure 139

Non-Coal Extractives Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	583	482	563	584	664	716	728	720	729	775	825	7,369
Audit	8	57	49	34	46	63	86	149	86	38	34	650
Management Plans (Safety)	16	9	22	17	10	2	12	45	30	4	5	172
Investigation	10	14	13	23	14	13	10	7	6	14	7	131
Verification	10	4	1	8	3	1	4	1	2	-	-	34
Equipment	-	-	6	4	1	2	3	3	2	-	2	23
Airborne Dust	-	-	-	-	-	4	5	-	-	-	-	9
Seminar/Workshop	-	-	-	5	-	2	1	-	-	-	-	8
Closure	-	-	-	2	3	-	-	2	-	-	-	7
Incident Follow-up	-	-	-	-	-	-	-	-	-	-	1	1
Total	627	566	654	677	741	803	849	927	855	831	874	8,404

Figure 140

Non-Coal Extractives Assessments by Event Subtype 2012-13



Refer to Appendix A.8 for a breakdown of Surface and Underground Non-Coal Extractives Assessments by Event Subtype

6.3.4 Non-Coal Other Assessments by Event Subtype

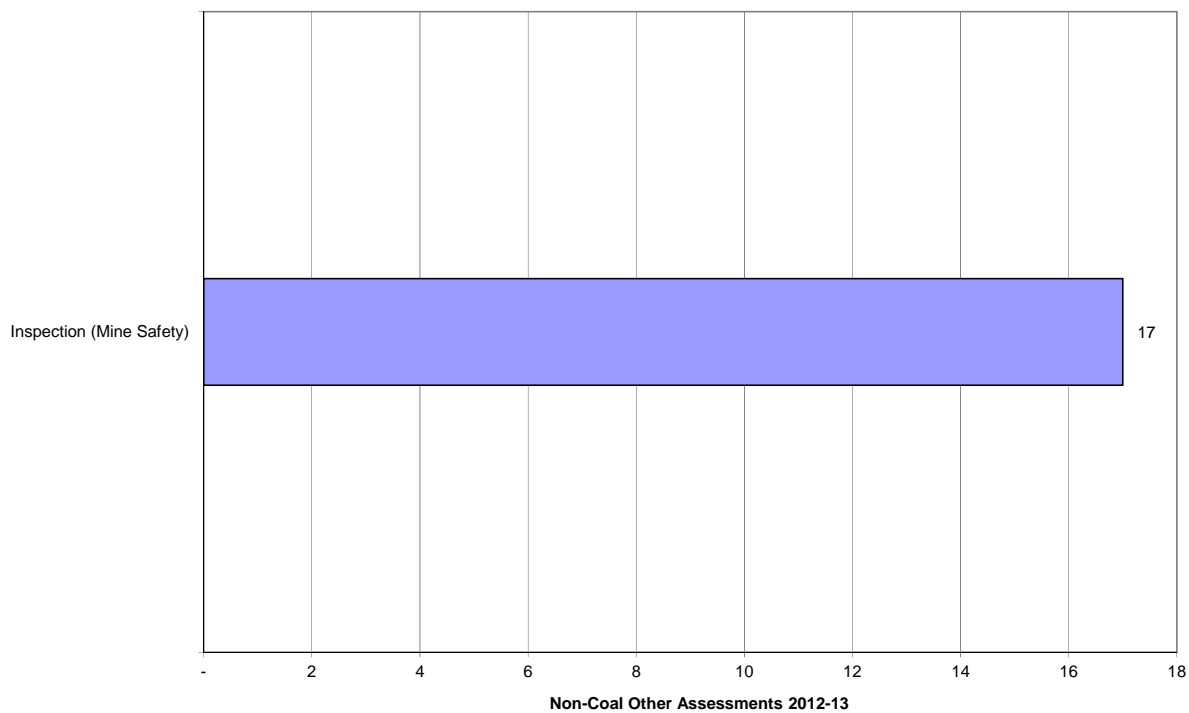
Figure 141

Non-Coal Other Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	12	20	10	13	27	24	12	21	27	23	17	206
Audit	13	3	-	-	1	2	-	-	1	-	-	20
Equipment	-	-	2	-	-	-	-	2	-	-	-	4
Investigation	1	-	-	-	-	-	-	-	-	-	-	1
Verification	-	-	-	-	-	-	1	-	-	-	-	1
Total	26	23	12	13	28	26	13	23	28	23	17	232

Figure 142

Non-Coal Other Assessments by Event Subtype 2002-03 to 2012-13



Refer to Appendix A.8 for a breakdown of Surface and Underground Non-Coal Other Assessments by Event Subtype

6.4 Petroleum (Onshore) Assessments

Petroleum assessments recorded in the COMET database appear below.

Note that several factors have affected petroleum operations in NSW in the past two years including the NSW Government imposed moratoria on fracking, granting of exploration licences and renewals of existing exploration licences. In addition, the level of coal seam gas exploration has slowed down in response to the drafting and delay in the implementation of the Strategic Regional Land Use Policy. This reduced activity is reflected in the safety statistics.

6.4.1 Petroleum (Onshore) Assessments by Event Subtype

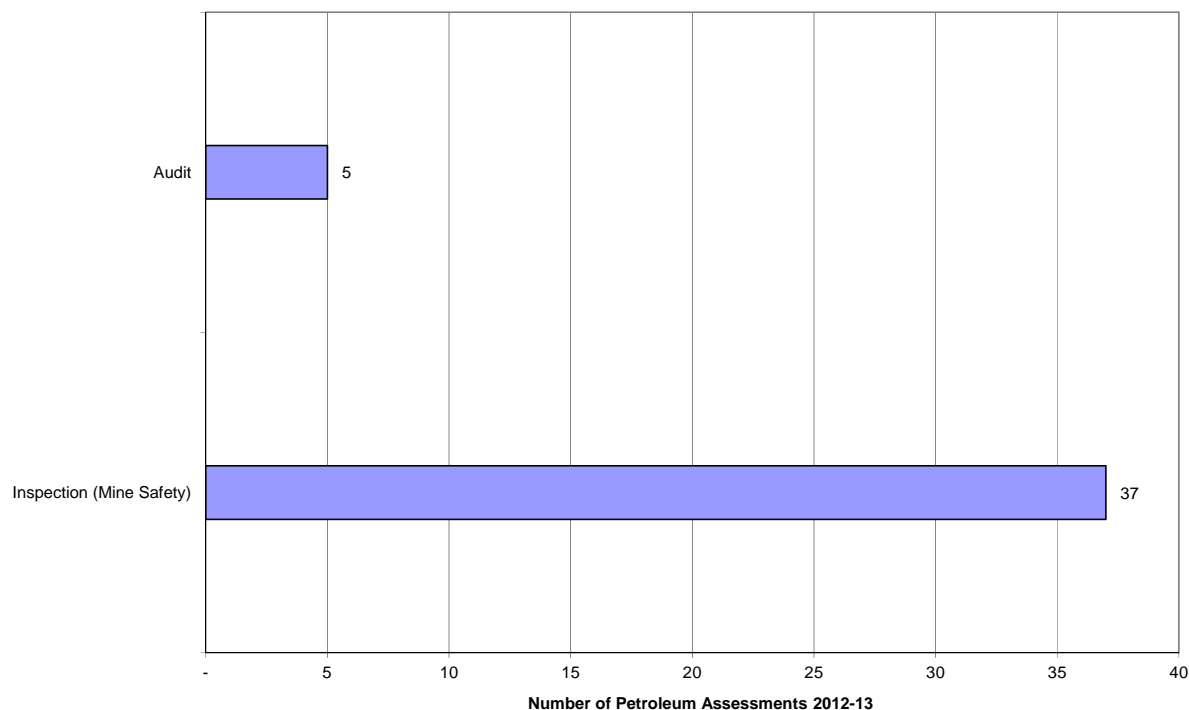
Figure 143

Petroleum (Onshore) Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	-	-	-	-	-	1	13	8	14	20	37	93
Audit	-	-	-	-	-	3	2	-	1	-	5	11
Verification										2	-	2
Incident Follow-up	-	-	-	-	-	-	-	-	-	1	-	1
Total	-	-	-	-	-	4	15	8	15	23	42	107

Figure 144

Petroleum (Onshore) Assessments by Event Subtype 2012-13



7 ENFORCEMENT AND ADVICE NOTICES

7.1 All Enforcement and Advice Notices

This section reports on advice/improvement, prohibition, investigation and explosives enforcement and advice Notices issued by NSW Trade & Investment Inspectors and Mine Safety Officers.

The commencement of the current coal legislation (CMHSA 2002 and CMHSR 2006) in mid 2006-07 and the current non-coal legislation (MHSA 2004 and MHSR 2007) in the second quarter of 2008-09, together with the requirement that all advice to mines must now be in writing, has resulted in an increase in enforcement and advice notices issued.

Refer to the Definitions, COMET Database Terms and Appendix B for details of the classifications used.

7.1.1 All Enforcement and Advice Notices by Sector

Figure 145

All Enforcement and Advice Notices by Sector 2002-03 to 2012-13

NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09

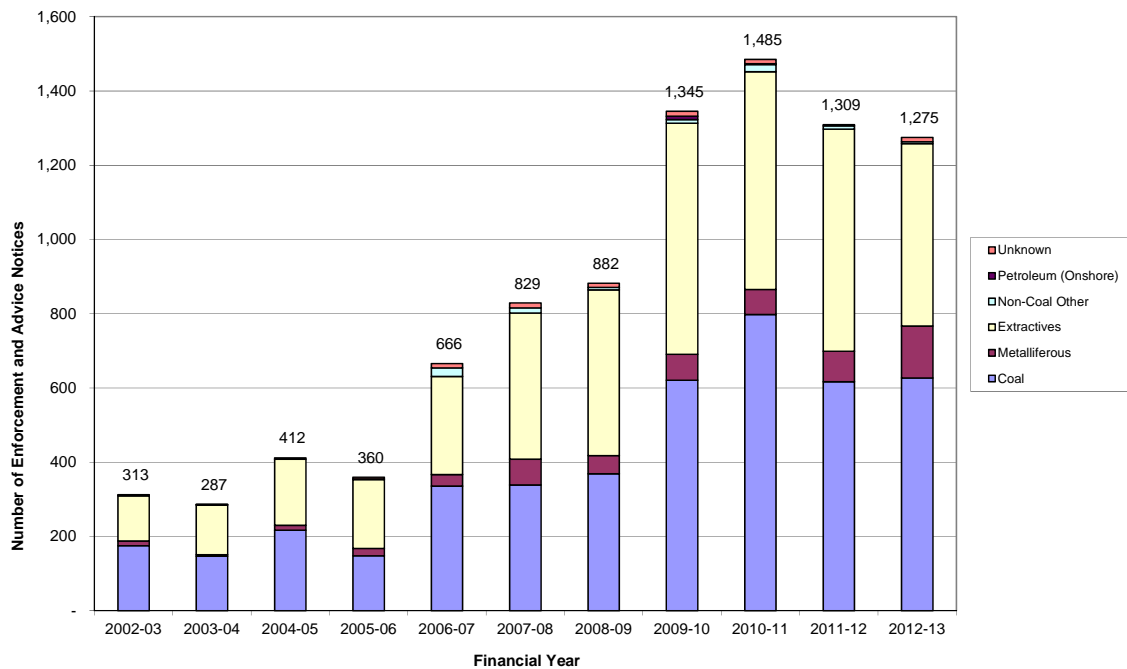
"Unknown" refers to enforcements issued to non-mine organisations

Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Coal	175	147	217	148	336	339	369	621	798	617	627	4,394
Metalliferous	13	4	13	20	31	69	49	70	67	82	140	558
Extractives	122	134	178	185	264	394	446	622	587	598	491	4,021
Non-Coal Other	1	1	-	2	23	14	7	10	19	9	5	91
Petroleum (Onshore)	-	-	-	-	-	-	-	9	2	-	-	11
Unknown	2	1	4	5	12	13	11	13	12	3	12	88
Total	313	287	412	360	666	829	882	1,345	1,485	1,309	1,275	9,163

Figure 146

All Enforcement and Advice Notices by Sector 2002-03 to 2012-13

NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09



7.1.2 All Enforcement and Advice Notices by Operation Type

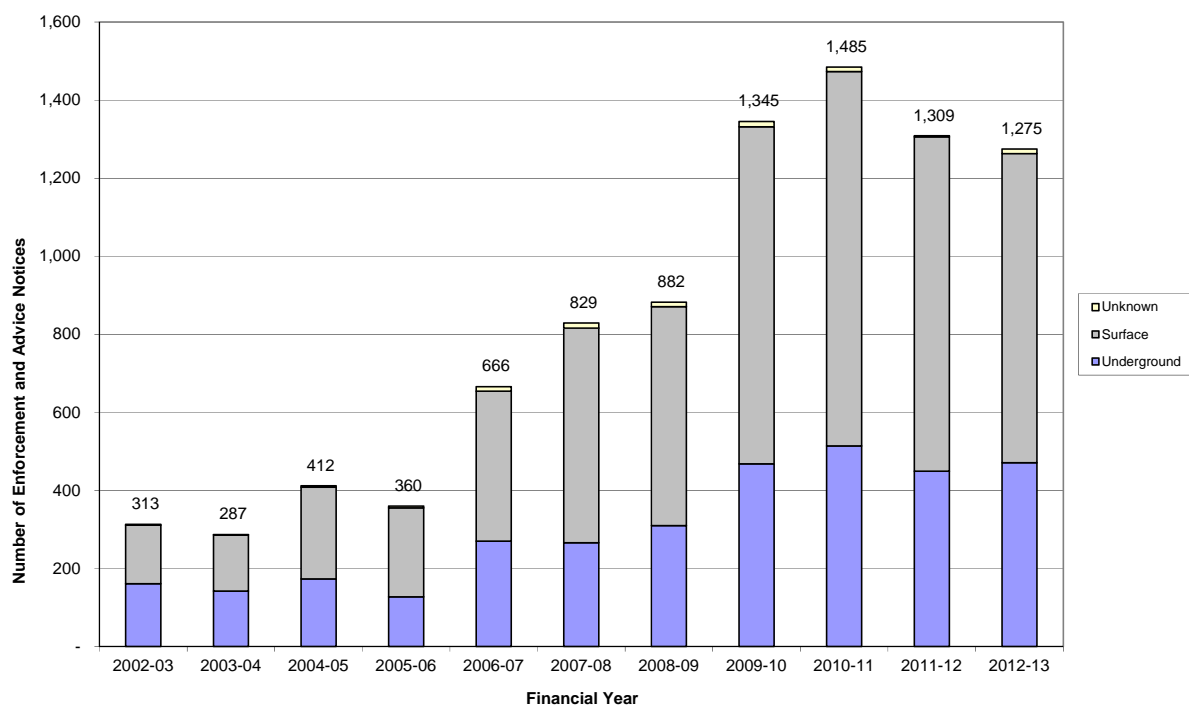
Figure 147

All Enforcement and Advice Notices by Operation Type 2002-03 to 2012-13
 NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09

Operation Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Underground	161	142	173	127	270	266	310	468	514	449	471	3,351
Surface	150	144	235	228	384	550	561	864	959	857	792	5,724
Unknown	2	1	4	5	12	13	11	13	12	3	12	88
Total	313	287	412	360	666	829	882	1,345	1,485	1,309	1,275	9,163

Figure 148

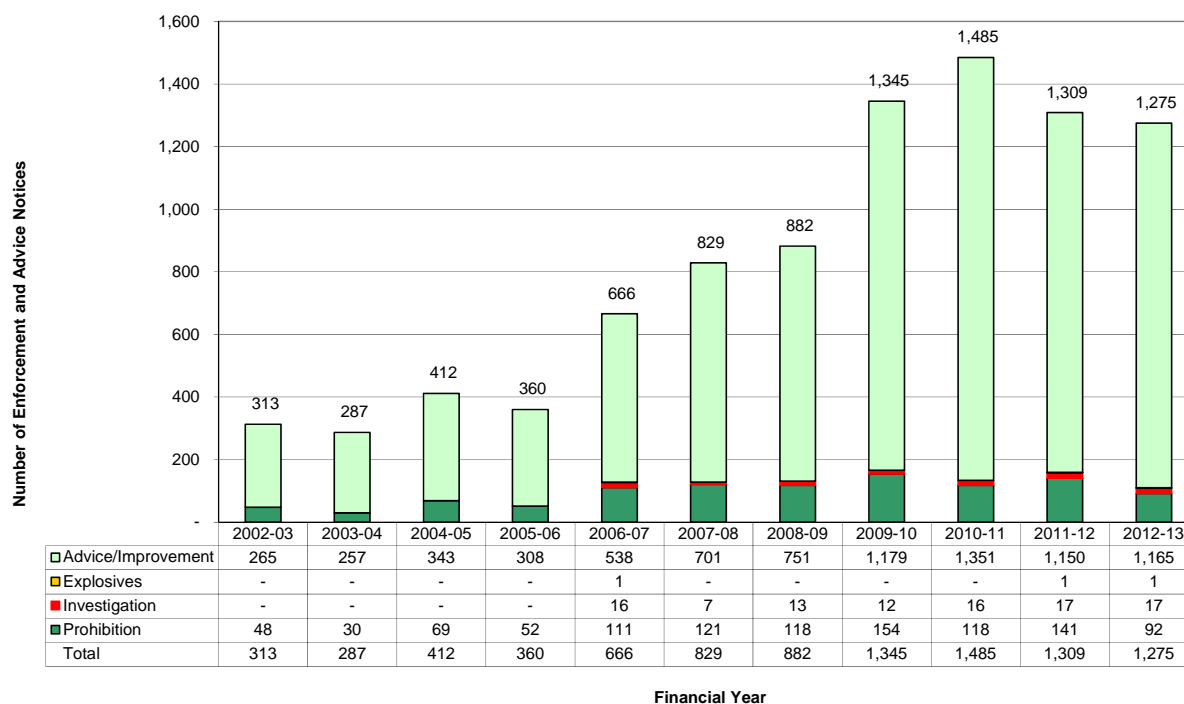
All Enforcement and Advice Notices by Operation Type 2002-03 to 2012-13
 NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09



7.1.3 All Enforcement and Advice Notices by Notice Category

Figure 149

All Enforcement and Advice Notices by Notice Category 2002-03 to 2012-13
 NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09



Refer to Appendix A.9 for a more detailed breakdown by Sector of Surface and Underground Enforcement and Advice Notices by Notice Category and Type

7.2 Coal Enforcement and Advice Notices

7.2.1 Coal Enforcement and Advice Notices by Operation Type

Figure 150

Coal Enforcement and Advice Notices by Operation Type 2002-03 to 2012-13

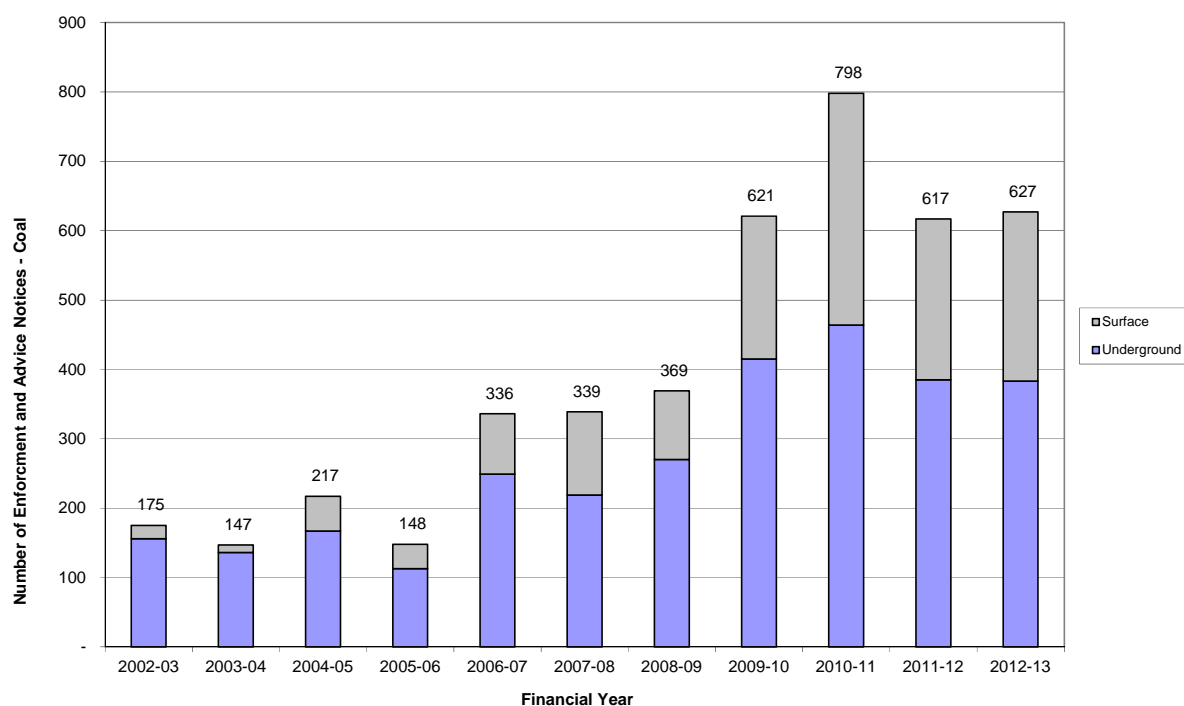
NB CMHSR 2006 commenced mid 2006-07

Operation Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Underground	156	136	167	113	249	219	270	415	464	385	383	2,957
Surface	19	11	50	35	87	120	99	206	334	232	244	1,437
Total	175	147	217	148	336	339	369	621	798	617	627	4,394

Figure 151

Coal Enforcement and Advice Notices 2002-03 to 2012-13

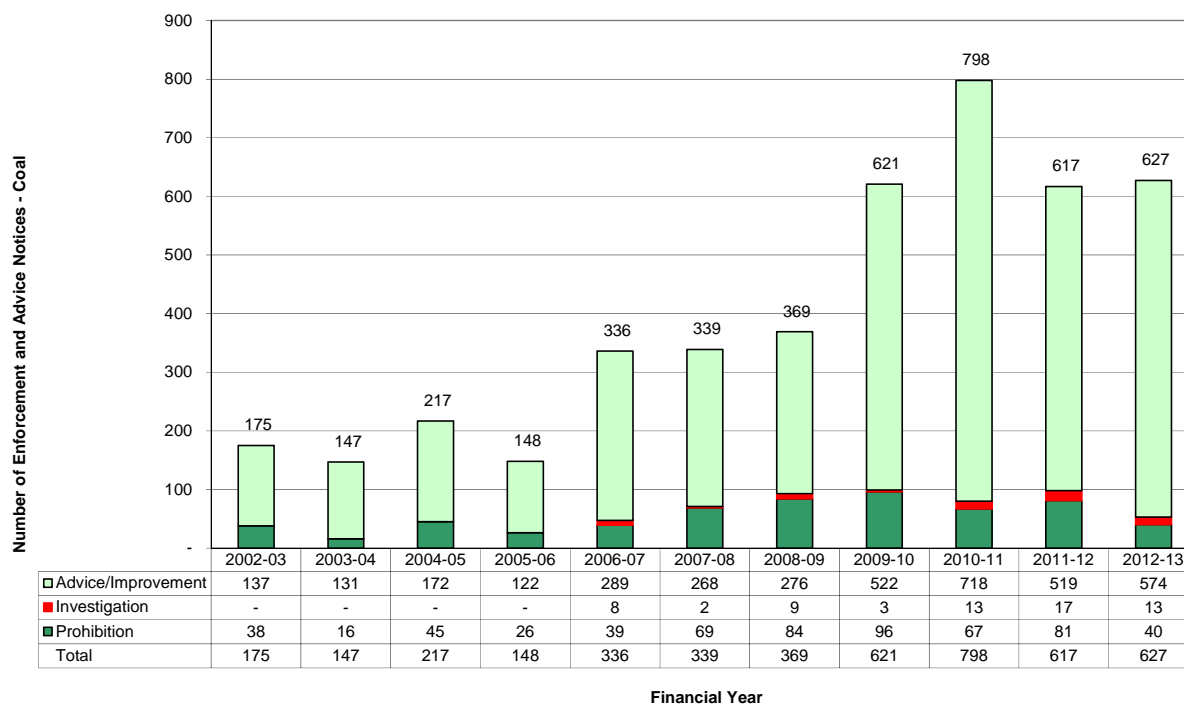
NB CMHSR 2006 commenced mid 2006-07



7.2.2 Coal Enforcement and Advice Notices by Notice Category

Figure 152

Coal Enforcement and Advice Notices by Notice Category 2002-03 to 2012-13
 NB CMHSR 2006 commenced mid 2006-07



Refer to Appendix A.9 for a more detailed breakdown of Coal Surface and Underground Enforcement and Advice Notices by Notice Category and Type

7.3 Non-Coal Enforcement and Advice Notices

7.3.1 Non-Coal Enforcement and Advice Notices by Operation Type

Figure 153

Non-Coal Enforcement and Advice Notices by Operation Type 2002-03 to 2012-13

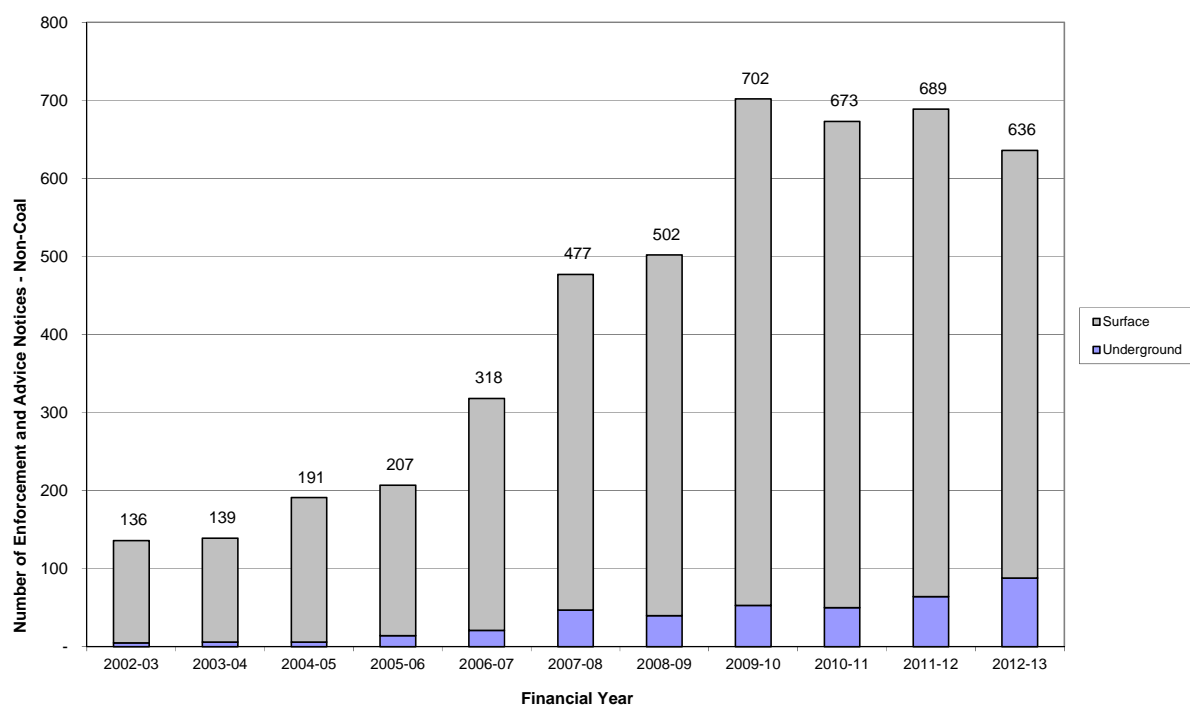
NB MHSR 2007 commenced Q2 2008-09

Operation Type	Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Surface	Metalliferous	8	-	9	7	12	27	10	21	28	22	58	202
	Extractives	122	132	176	184	262	389	445	620	582	597	487	3,996
	Non-Coal Other	1	1	-	2	23	14	7	8	13	6	3	78
	Total	131	133	185	193	297	430	462	649	623	625	548	4,276
Underground	Metalliferous	5	4	4	13	19	42	39	49	39	60	82	356
	Extractives	-	2	2	1	2	5	1	2	5	1	4	25
	Non-Coal Other	-	-	-	-	-	-	-	2	6	3	2	13
	Total	5	6	6	14	21	47	40	53	50	64	88	394
Total	136	139	191	207	318	477	502	702	673	689	636	4,670	

Figure 154

Non-Coal Enforcement and Advice Notices 2002-03 to 2012-13

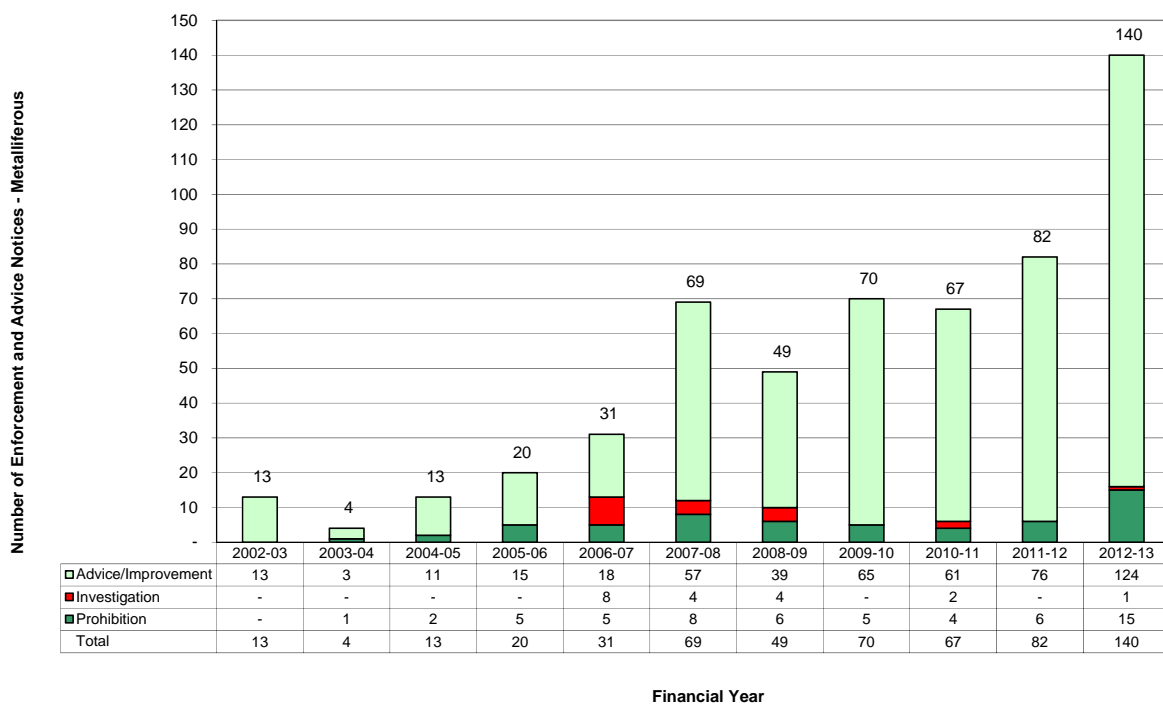
NB MHSR 2007 commenced Q2 2008-09



7.3.2 Non-Coal Metalliferous Enforcement and Advice Notices by Notice Category

Figure 155

Non-Coal Metalliferous Enforcement and Advice Notices by Notice Category 2002-03 to 2012-13
 NB MHSR 2007 commenced Q2 2008-09



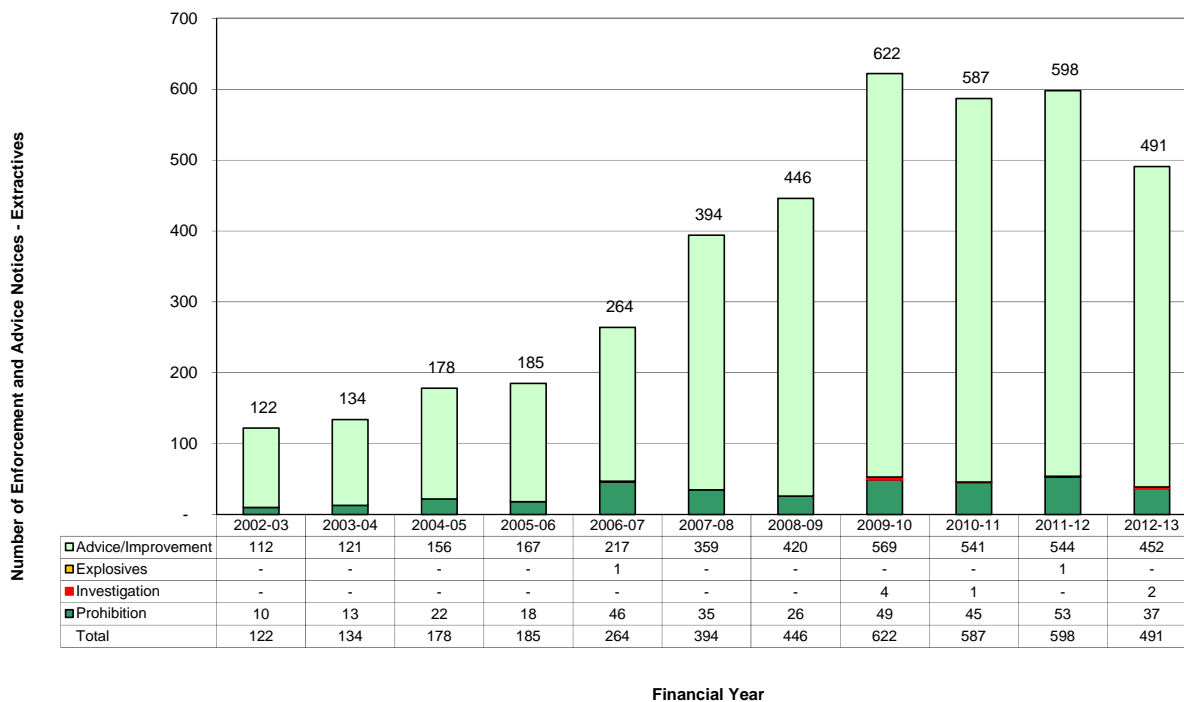
Refer to Appendix A.9 for a more detailed breakdown of Non-Coal Metalliferous Surface and Underground Enforcement and Advice Notices by Notice Category and Type

7.3.3 Non-Coal Extractives Enforcement and Advice Notices by Notice Category

Figure 156

Non-Coal Extractives Enforcement and Advice Notices by Notice Category 2002-03 to 2012-13

NB MHSR 2007 commenced Q2 2008-09

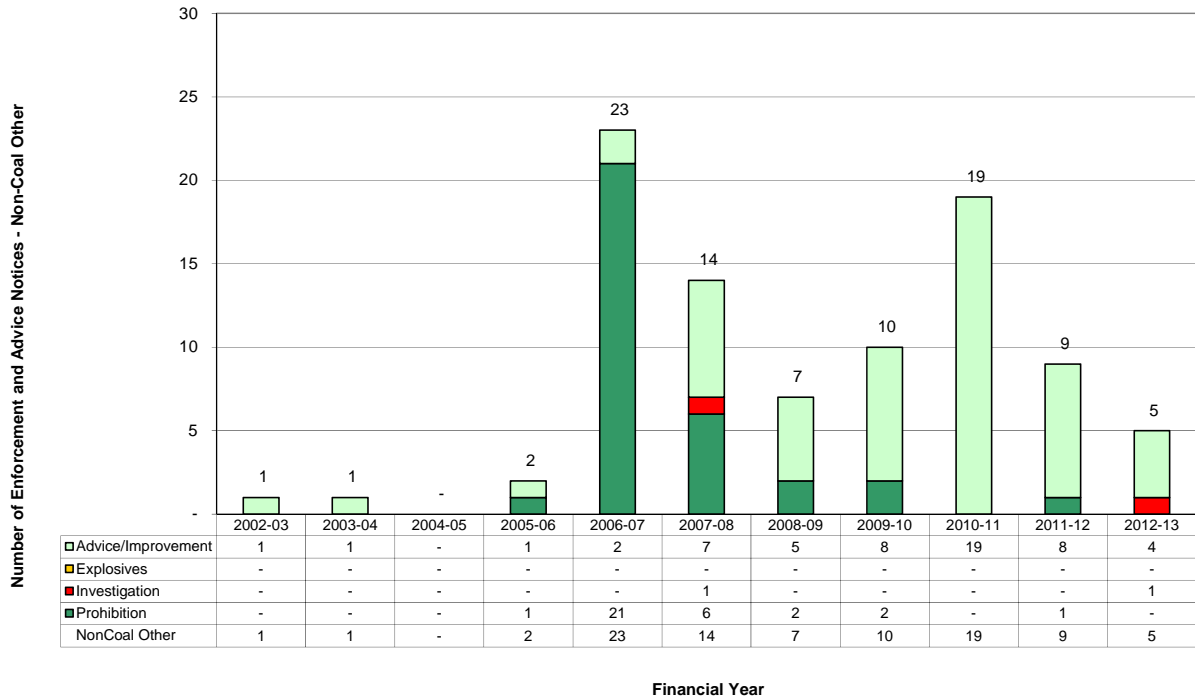


Refer to Appendix A.9 for a more detailed breakdown of Non-Coal Extractives Surface and Underground Enforcement and Advice Notices by Notice Category and Type

7.3.4 Non-Coal Other Enforcement and Advice Notices by Notice Category

Figure 157

Non-Coal Other Enforcement and Advice Notices by Notice Category 2002-03 to 2012-13
 NB MHSR 2007 commenced Q2 2008-09



Refer to Appendix A.9 for a more detailed breakdown of Non-Coal Other Enforcement and Advice Notices by Notice Type

7.4 Petroleum (Onshore) Enforcement and Advice Notices

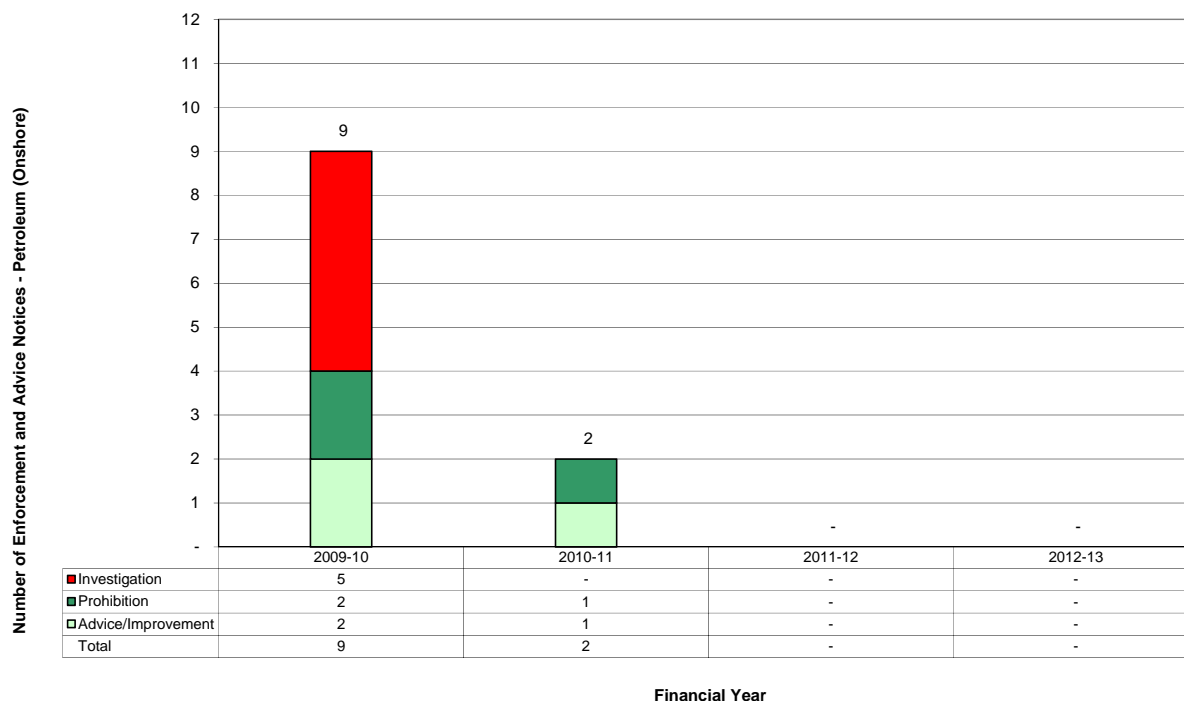
Petroleum enforcement and advice notices recorded in the COMET database appear below.

Note that several factors have affected petroleum operations in NSW in the past two years including the NSW Government imposed moratoria on fracking, granting of exploration licences and renewals of existing exploration licences. In addition, the level of coal seam gas exploration has slowed down in response to the drafting and delay in the implementation of the Strategic Regional Land Use Policy. This reduced activity is reflected in the safety statistics.

7.4.1 Petroleum (Onshore) Enforcement and Advice Notices by Notice Category

Figure 158

Petroleum (Onshore) Enforcement and Advice Notices by Notice Category 2009-10 to 2012-13



Refer to Appendix A.9 for a more detailed breakdown of Petroleum (Onshore) Enforcement and Advice Notices by Notice Type

APPENDIX A ADDITIONAL FIGURES

Appendix A.1 Incidents

Figure 159

Coal Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
*CMRA	*Serious Bodily Injury CMRA	*Fracture(s)	9	2	-	-	-	-	-	-	-	-	-	11	
		*Dislocation	-	1	-	-	-	-	-	-	-	-	-	-	1
		Total	9	3	-	-	-	-	-	-	-	-	-	-	12
*CMRA Total			9	3	-	-	-	-	-	-	-	-	-	12	
*CMGNR	*Non Spec Acc Ending in Fat/Injury	*SBI/SI	3	2	7	10	2	-	-	-	-	-	-	24	
		*Lost Time Injury	1	1	-	-	2	-	-	-	-	-	-	-	4
		*Fatality	-	1	-	-	-	-	-	-	-	-	-	-	1
		*Minor injury	-	-	-	-	1	-	-	-	-	-	-	-	1
		*MTI with NO Lost Time	-	-	-	-	-	-	-	-	-	-	-	-	-
		Total	4	4	7	10	5	-	-	-	-	-	-	-	30
	*Notifiable Incidents DCCP CMGNR 1999, CI 83	*Elect shock 83(1)(b)	4	4	6	6	2	-	-	-	-	-	-	-	22
		*Unplanned movement 83(1)(c)	1	1	2	5	1	-	-	-	-	-	-	-	10
		*Outbreak fire 83(1)(a)	-	1	-	4	-	-	-	-	-	-	-	-	5
		*Failure structure 83(1)(d)	-	2	-	-	-	-	-	-	-	-	-	-	2
		Total	5	8	8	15	3	-	-	-	-	-	-	-	39
*CMGNR Total			9	12	15	25	8	-	-	-	-	-	-	69	
*CMOCR	*Notifiable Incidents CMOCR 1999, CI 16	*Unplanned movement 16(1)(f)	21	49	26	46	3	-	-	-	-	-	-	145	
		*Elect shock 16(1)(d)	6	8	6	10	5	-	-	-	-	-	-	-	35
		*Outbreak fire 16(1)(a)	7	2	2	5	2	-	-	-	-	-	-	-	18
		*Failure high-lowwall etc 16(1)(g)	2	3	4	3	2	-	-	-	-	-	-	-	14
		*Self heat 16(1)(b)	1	1	-	2	-	-	-	-	-	-	-	-	4
		*Failure structure 16(1)(h)	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Flyrock 16(1)(j)	1	-	1	1	-	-	-	-	-	-	-	-	3
		*Injury from Blasting 16(1)(e)	1	1	-	-	-	-	-	-	-	-	-	-	2
Total			40	64	39	67	12	-	-	-	-	-	-	222	
*CMOCR Total			40	64	39	67	12	-	-	-	-	-	-	222	
CMHS	CMHSR 2006 CI 55	55(h) collision on surface involving vehicle or mobile plant with gross weight > 2 tonnes	-	-	-	-	30	72	62	70	94	104	112	544	
		55(i) loss of control of heavy vehicle or large plant on surface	-	-	-	-	15	11	22	25	22	16	29	140	
		55(j) overturning of heavy vehicle or large plant on surface	-	-	-	-	4	11	15	11	17	14	21	93	
		55(c)(vi) unintended activation / movement of vehicles or machinery	-	-	-	-	3	5	5	11	9	21	11	65	
		55(c)(iv) failure of strata / slope stability control measures	-	-	-	-	2	5	7	3	6	6	8	37	

Coal Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13 continued

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total			
CMHSR 2006 CI 55		55(d)(i) involving electricity, person suffers injury, receives treatment from health professional or unable to attend work	-	-	-	-	1	6	4	7	1	13	3	35			
		55(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	-	-	-	-	1	1	2	7	6	5	11	33			
		55(c)(i) damage to any plant / building / structure	-	-	-	-	-	3	3	3	6	10	3	28			
		55(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	5	3	-	1	3	2	14			
		55(k) ejection of fly rock so that it falls outside blast exclusion zone or near people	-	-	-	-	-	2	-	3	1	1	-	7			
		55(g) abnormal inrush of fluid	-	-	-	-	-	-	-	1	-	-	1	1	3		
		Total	-	-	-	-	-	56	121	124	140	163	194	201	999		
		CMHS		56(1)(n) uncontrolled explosion, fire / misfire of explosives in surface parts	-	-	-	-	35	80	95	90	105	148	139	692	
				56(1)(p) unintended activation or movement of vehicles/machinery, no immediate threat to life or incapacitating injury	-	-	-	-	20	64	83	83	143	139	158	690	
				56(1)(e) contact of person with energised electrical item supplied above extra low voltage	-	-	-	-	3	6	8	13	15	14	15	74	
				56(1)(o) escape of fluid under pressure that could place any person at risk	-	-	-	-	-	4	4	8	5	6	10	37	
				56(1)(g) accumulation of gas requires withdrawal of people or results in tripping off electric power	-	-	-	-	-	-	-	-	-	-	11	11	
				56(1)(f) initial self-heating of coal / other material, heating of coal underground parts resulting in withdrawal of people	-	-	-	-	4	-	-	-	-	-	-	4	8
				56(1)(j) burial of machinery, cannot be recovered under own tractive effort	-	-	-	-	-	-	-	2	-	1	1	1	5
56(1)(h) unplanned fall of roof / roof sides, impedes passage / disrupts mine ventilation / extends outside bolted zone	-			-	-	-	-	-	1	-	-	1	-	-	2		
56(1)(m) in-service failure of explosion-protection characteristics	-			-	-	-	-	-	-	-	-	-	-	1	1		
Total	-			-	-	-	-	62	155	192	194	270	308	339	1,520		
CMHSR 2006 CI 56(1)		56(1)(n) uncontrolled explosion, fire / misfire of explosives in surface parts	-	-	-	-	35	80	95	90	105	148	139	692			
		56(1)(p) unintended activation or movement of vehicles/machinery, no immediate threat to life or incapacitating injury	-	-	-	-	20	64	83	83	143	139	158	690			
		56(1)(e) contact of person with energised electrical item supplied above extra low voltage	-	-	-	-	3	6	8	13	15	14	15	74			
		56(1)(o) escape of fluid under pressure that could place any person at risk	-	-	-	-	-	4	4	8	5	6	10	37			
		56(1)(g) accumulation of gas requires withdrawal of people or results in tripping off electric power	-	-	-	-	-	-	-	-	-	-	11	11			
		56(1)(f) initial self-heating of coal / other material, heating of coal underground parts resulting in withdrawal of people	-	-	-	-	4	-	-	-	-	-	-	4	8		
		56(1)(j) burial of machinery, cannot be recovered under own tractive effort	-	-	-	-	-	-	-	2	-	1	1	1	5		
		56(1)(h) unplanned fall of roof / roof sides, impedes passage / disrupts mine ventilation / extends outside bolted zone	-	-	-	-	-	-	1	-	-	1	-	-	2		
		56(1)(m) in-service failure of explosion-protection characteristics	-	-	-	-	-	-	-	-	-	-	-	1	1		
		Total	-	-	-	-	-	62	155	192	194	270	308	339	1,520		

Coal Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13 continued

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
CMHS	CMHSR 2006 CI 57	57(c) the unintended activation or movement of machinery (other than a vehicle)	-	-	-	-	-	-	1	5	4	5	3	18	
		Total	-	-	-	-	-	-	1	5	4	5	3	18	
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	31	38	69	62	61	90	82	433	
		Total	-	-	-	-	31	38	69	62	61	90	82	433	
CMHS Total			-	-	-	-	149	314	386	401	498	597	625	2,970	
Explosives	Explosives Regulation 2005	Loss or theft of explosives or explosive precursors CI 39	-	-	-	-	1	-	-	-	-	1	1	3	
		Total	-	-	-	-	1	-	-	-	-	1	1	3	
Explosives Total			-	-	-	-	1	-	-	-	-	1	1	3	
N/A	Complaint	Mine Employee Complaint	-	1	-	-	-	1	-	-	-	-	-	2	
		Other	-	-	-	1	-	-	-	-	-	-	-	1	
		Total	-	1	-	1	-	1	-	-	-	-	-	3	
	High Potential Incident	Electrical energy from apparatus such as cables, transformers, switch gear, connections	2	5	1	-	-	1	-	-	-	2	-	2	13
		Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,wind ers	1	-	2	-	2	-	-	-	1	1	-	1	8
		High wall/Pit wall	1	-	-	-	-	-	-	-	1	-	1	-	3
		Other	-	-	1	-	1	-	-	-	-	-	-	1	3
		Explosive dusts such as coal, sulphide dust	-	-	-	1	-	1	-	-	-	-	-	-	2
		Mining equipment such as continuous miners, excavators, drills, shovels	-	-	-	1	-	-	-	-	-	-	-	1	2
		Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	1	-	-	-	-	-	-	1	-	-	-	-	2
		Dusts that can effect health such as coal, silica	-	1	-	-	-	-	-	-	-	-	-	-	1
		Explosive gases such as H ₂ , CH ₄	-	1	-	-	-	-	-	-	-	-	-	-	1
		Explosives incident not a dangerous incident	-	1	-	-	-	-	-	-	-	-	-	-	1
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	-	-	-	-	-	1	-	-	-	-	-	1
		Fixed mechanical equipment such as conveyors, crushers, screens	-	-	-	-	-	-	-	-	-	1	-	-	1
		Lightning strike	-	1	-	-	-	-	-	-	-	-	-	-	1
		Water - from rain or storms	-	-	1	-	-	-	-	-	-	-	-	-	1
		Wildlife such as kangaroos, snakes, spiders	-	-	-	-	-	-	-	-	-	1	-	-	1
		Hydraulic pressure from pump stations & reticulation or equipment	-	-	-	-	-	-	-	-	-	-	-	-	-
		Spontaneous combustion such as coal	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		5	9	5	2	3	3	1	3	4	1	5	41		
Other	Non-mining Fatality/Injury	-	-	-	-	-	-	-	-	-	-	1	1	2	
	Total	-	-	-	-	-	-	-	-	-	-	1	1	2	
Unknown	Unknown	8	-	-	-	-	-	-	-	-	-	-	-	8	
	Total	8	-	-	-	-	-	-	-	-	-	-	-	8	
N/A Total			13	10	5	3	3	4	1	3	4	2	6	54	
Coal Surface Incidents Total			71	89	59	95	173	318	387	404	502	600	632	3,330	

Figure 160

Coal Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
*CMRA	*Fatality	*Not Applicable	-	1	-	-	-	-	-	-	-	-	-	1	
		Total	-	1	-	-	-	-	-	-	-	-	-	-	1
	*Serious Bodily Injury CMRA	*Fracture(s)	7	9	-	-	-	-	-	-	-	-	-	-	16
		*Injection hydraulics 85(g)	1	2	-	-	-	-	-	-	-	-	-	-	3
		*Burns requiring hospital treatment	-	-	-	-	-	-	-	-	-	-	-	-	-
		*Dislocation	2	-	-	-	-	-	-	-	-	-	-	-	2
		*Amputation	1	-	-	-	-	-	-	-	-	-	-	-	1
Total	11	11	-	-	-	-	-	-	-	-	-	-	22		
*CMRA Total		11	12	-	-	-	-	-	-	-	-	-	-	23	
*CMGNR	*Non Spec Acc Ending in Fat/Injury	*SBI/Sl	14	27	22	16	17	-	-	-	-	-	-	-	96
		*Lost Time Injury	-	-	-	2	8	-	-	-	-	-	-	-	10
		*Fatality	-	1	-	-	1	-	-	-	-	-	-	-	2
		*Minor injury	1	-	-	1	2	-	-	-	-	-	-	-	4
		Total	15	28	22	19	28	-	-	-	-	-	-	-	112
	*Notifiable Incidents DCCP CMGNR 1999, CI 83	*Unplanned movement 83(1)(c)	2	-	-	-	-	-	-	-	-	-	-	-	2
		*Outbreak fire 83(1)(a)	2	-	-	-	2	-	-	-	-	-	-	-	4
		*Elect shock 83(1)(b)	-	-	-	-	-	-	-	-	-	-	-	-	-
		*Failure structure 83(1)(d)	-	-	-	-	-	-	-	-	-	-	-	-	-
		Total	4	-	-	-	2	-	-	-	-	-	-	-	6
*CMGNR Total		19	28	22	19	30	-	-	-	-	-	-	-	118	
*CMUGR	*Dangerous Occurrences CMUGR 1999, CI 34(1)	*Failure explosion protection 34(1)(g)	37	12	-	-	-	-	-	-	-	-	-	-	49
		*Outbreak fire self heat 34(1)(b)	15	17	24	15	6	-	-	-	-	-	-	-	77
		*Ignition gas dust 34(1)(a)	2	8	3	1	5	-	-	-	-	-	-	-	19
		*Damage failure haulage 34(1)(f)	4	-	-	5	-	-	-	-	-	-	-	-	9
		*Failure ventilation 34(1)(c)	2	1	1	1	-	-	-	-	-	-	-	-	5
		*Inrush 34(1)(d)	1	-	1	-	-	-	-	-	-	-	-	-	2
		*Outburst 34(1)(e)	-	-	-	-	1	-	-	-	-	-	-	-	1
		*Ignition explosives 34(1)(h)	-	-	1	-	-	-	-	-	-	-	-	-	1
		*Pillar collapse 34(1)(i)	-	1	-	-	-	-	-	-	-	-	-	-	1
		Total	61	39	30	22	12	-	-	-	-	-	-	-	-
	*Incidents CMUGR 1999, CI 34 (2) Repealed 4/7/2003	*Unplanned movement 34(2)(e)	38	9	-	-	-	-	-	-	-	-	-	-	47
		*Elect shock 34(2)(h)	9	1	-	-	-	-	-	-	-	-	-	-	10
		*Fall roof sides 34(2)(a)	4	2	-	-	-	-	-	-	-	-	-	-	6
		*Entrapment breaker line 34(2)(d)	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Entrapment cont. miner 34(2)	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Windblast 34(2)(b)	-	-	-	-	-	-	-	-	-	-	-	-	-
		*Failure structure 34(2)(g)	1	-	-	-	-	-	-	-	-	-	-	-	1
Total		54	12	-	-	-	-	-	-	-	-	-	-	-	66
*CMUGR	*Notifiable Incidents CMUGR 1999 CI 34A	*Unplanned movement 34A (1)(b)	-	29	29	57	27	-	-	-	-	-	-	-	142
		*Elect shock 34A (1)(a)	1	7	8	17	14	-	-	-	-	-	-	-	47
		*Failure structure 34A (1)c	-	2	1	2	2	-	-	-	-	-	-	-	7
		Total	1	38	38	76	43	-	-	-	-	-	-	-	196
	*Other Notifiable Incidents CMUGR 1999 CI 34B	*Arcing on electric cable 34B (1)(a)	2	15	50	76	33	-	-	-	-	-	-	-	176
		*Failure explosion protection 34B (1)(g)	9	24	39	34	20	-	-	-	-	-	-	-	126
		*Fall roof sides 34B (1)(b)	-	6	3	4	4	-	-	-	-	-	-	-	17
		*Entrapment cont. miner 34B (1)(d)	1	1	3	1	1	-	-	-	-	-	-	-	7
		*Entrapment breaker line 34B (1)(e)	-	-	2	1	1	-	-	-	-	-	-	-	4
		*Windblast 34B (1)c	-	1	-	-	-	-	-	-	-	-	-	-	1
Total	12	47	97	116	59	-	-	-	-	-	-	-	331		
*CMUGR Total		128	136	165	214	114	-	-	-	-	-	-	-	757	

Coal Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13 continued

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total		
CMHS	CMHSR 2006 CI 55	55(l) failure of any part of powered winding system or damage to shaft or shaft equipment	-	-	-	-	14	12	31	54	46	22	13	192		
		55(e) uncontrolled explosion / fire / misfire of explosives in underground parts	-	-	-	-	4	25	37	29	20	21	29	165		
		55(h) collision on surface involving vehicle or mobile plant with gross weight > 2 tonnes	-	-	-	-	4	5	14	16	22	30	16	107		
		55(c)(vi) unintended activation / movement of vehicles or machinery	-	-	-	-	6	14	6	15	5	9	7	62		
		55(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	-	-	-	-	7	8	10	7	10	5	11	58		
		55(d)(i) involving electricity, person suffers injury, receives treatment from health professional or unable to attend work	-	-	-	-	3	7	13	7	8	6	9	53		
		55(j) overturning of heavy vehicle or large plant on surface	-	-	-	-	-	4	5	4	2	2	3	20		
		55(f) uncontrolled outburst of gas	-	-	-	-	-	-	1	2	-	5	11	19		
		55(i) loss of control of heavy vehicle or large plant on surface	-	-	-	-	4	3	2	1	2	3	2	17		
		55(c)(iv) failure of strata / slope stability control measures	-	-	-	-	-	3	1	1	3	4	3	15		
		55(c)(ii) imminent risk of explosion or fire	-	-	-	-	2	1	2	3	-	-	4	12		
		55(c)(i) damage to any plant / building / structure	-	-	-	-	2	1	-	1	1	3	1	9		
		55(g) abnormal inrush of fluid	-	-	-	-	-	-	1	-	2	1	-	4		
		Total						46	83	123	140	121	111	109	733	
		CMHSR 2006 CI 56(1)	CMHSR 2006 CI 56(1)	56(1)(g) accumulation of gas requires withdrawal of people or results in tripping off electric power	-	-	-	-	287	654	806	796	925	647	666	4,781
				56(1)(m) in-service failure of explosion-protection characteristics	-	-	-	-	57	137	322	477	344	348	354	2,039
				56(1)(o) escape of fluid under pressure that could place any person at risk	-	-	-	-	236	357	278	202	184	186	204	1,647
				56(1)(p) unintended activation or movement of vehicles/machinery, no immediate threat to life or incapacitating injury	-	-	-	-	69	121	164	217	189	204	211	1,175

Coal Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13 continued

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
CMHS	CMHSR 2006 CI 56(1)	56(1)(l) event in hazardous zone, underground parts, electric arc observed or leaves visible evidence on electric cable	-	-	-	-	49	69	76	82	71	70	64	481
		56(1)(h) unplanned fall of roof / roof sides, impedes passage / disrupts mine ventilation / extends outside bolted zone	-	-	-	-	20	27	29	24	23	33	25	181
		56(1)(e) contact of person with energised electrical item supplied above extra low voltage	-	-	-	-	8	10	3	8	7	10	6	52
		56(1)(n) uncontrolled explosion, fire / misfire of explosives in surface parts	-	-	-	-	-	12	2	8	10	10	10	52
		56(1)(j) burial of machinery, cannot be recovered under own tractive effort	-	-	-	-	1	4	1	4	9	6	4	29
		56(1)(f) initial self-heating of coal / other material, heating of coal underground parts resulting in withdrawal of people	-	-	-	-	-	-	4	3	1	-	2	10
		56(1)(d) spill / incident, exposure / potential exposure to notifiable or prohibited carcinogenic substance	-	-	-	-	-	-	-	-	2	1	-	3
		56(1)(i) windblast results in injuries requiring treatment by medical practitioner	-	-	-	-	-	1	-	-	2	-	-	3
	Total	-	-	-	-	727	1,392	1,685	1,821	1,765	1,515	1,546	10,453	
	CMHSR 2006 CI 57	57(c) unintended activation or movement of machinery (other than vehicle)	-	-	-	-	-	-	-	-	-	1	1	2
		Total	-	-	-	-	-	-	-	-	-	1	1	2
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	184	446	368	372	372	390	321	2,453
		Total	-	-	-	-	184	446	368	372	372	390	321	2,453
	CMHS Total		-	-	-	-	957	1,921	2,176	2,333	2,258	2,017	1,977	13,641
N/A	Complaint	Mine Employee Complaint	-	-	-	-	-	-	1	-	1	-	-	2
		Other	-	-	1	1	-	-	-	-	-	-	-	2
		Public Complaint	-	-	-	-	-	1	-	-	-	-	-	1
		Total	-	-	1	1	-	1	1	-	1	-	-	5
	High Potential Incident	Electrical energy from apparatus such as cables, transformers, switch gear, connections	4	4	3	3	5	2	1	-	1	4	-	27
		Mining equipment such as continuous miners, excavators, drills, shovels	2	2	6	1	-	1	-	-	-	1	-	13
Other		3	1	4	-	1	-	1	1	1	1	-	13	
Hydraulic pressure	1	1	1	2	2	1	-	-	-	-	-	-	8	

Coal Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13 continued

N/A	High Potential Incident	Explosive gases such as H ₂ , CH ₄	1	2	-	-	-	2	-	1	1	-	-	7		
		Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	-	-	1	1	-	2	-	-	-	-	-	1	5	
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	2	-	1	-	-	-	-	1	-	-	-	4	
		Fixed mechanical equipment such as conveyors, crushers, screens	-	1	-	-	1	-	-	-	-	-	1	-	3	
		Dusts that can effect health such as coal, silica	1	-	-	-	-	-	-	-	1	-	-	-	2	
		Rib/sides	-	-	1	-	-	-	-	-	-	-	-	-	1	2
		Water - in large volumes	-	-	1	-	-	-	1	-	-	-	-	-	2	
		Explosive dusts such as coal, sulphide dust	-	-	-	-	-	-	-	1	-	-	-	-	1	
		Flammable gases such as Acetylene, LPG	-	-	-	1	-	-	-	-	-	-	-	-	1	
		Floor	-	-	-	-	-	-	-	-	-	1	-	-	1	
		Liquid chemicals that may effect health such as cleaners, oils/lubes, solvents, degreasers	-	-	-	-	-	-	-	-	1	-	-	-	1	
		Other gases with health effects such as	-	-	1	-	-	-	-	-	-	-	-	-	1	
		Pneumatic pressure from compressor stations & reticulation or equipment	-	1	-	-	-	-	-	-	-	-	-	-	1	
		Roof/back	-	-	1	-	-	-	-	-	-	-	-	-	1	
		Spontaneous combustion such as coal	-	-	-	-	-	-	-	-	-	-	-	1	1	
		Stored pressure/energy such as accumulators, spring/tension devices	-	-	-	-	-	-	-	-	-	-	1	-	1	
		Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	-	-	-	1	-	-	-	-	-	-	-	-	1	
		Water - from rain or storms	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Water pressure from pump stations & reticulation or equipment	-	-	-	-	-	1	-	-	-	-	-	-	1	
		Total	15	17	21	13	11	14	4	6	5	8	4	4	98	
		Other	Non-mining Fatality/Injury	1	-	-	-	-	-	-	-	-	-	-	1	
			Total	1	-	-	-	-	-	-	-	-	-	-	1	
		UNKNOWN	Unknown	9	-	-	-	-	-	-	-	-	-	-	9	
			Total	9	-	-	-	-	-	-	-	-	-	-	9	
		N/A Total		25	17	22	14	11	15	5	6	6	8	4	113	
Coal Underground Incidents Total		183	193	209	247	1,112	1,936	2,181	2,339	2,264	2,025	1,981	14,652			

Figure 161

Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
*MIA	*Serious Injury MIA	*Fracture(s)	2	2	-	-	-	-	-	-	-	-	-	4	
		*Asphyxia	-	1	-	-	-	-	-	-	-	-	-	-	1
		*Dislocation	-	1	-	-	-	-	-	-	-	-	-	-	1
		Total	2	4	-	-	-	-	-	-	-	-	-	-	6
	*Dangerous Incident	*Electric shock CI 68(5)(a)	6	5	5	5	7	4	-	-	-	-	-	-	32
		*Mobile Plant - general transport/traffic	3	1	6	11	2	2	-	-	-	-	-	-	25
		*Mobile Plant - fires on equipment (surface)	5	5	2	2	-	1	-	-	-	-	-	-	15
		*Outbreak of fire due to electrical equipment CI 68(5)(c)	-	1	1	1	-	1	-	-	-	-	-	-	4
		*Isolation of energy	-	-	1	2	1	-	-	-	-	-	-	-	4
		*Misfire - significant CI 65(1)	2	1	-	-	1	-	-	-	-	-	-	-	4
		*Fixed Equipment - fire (surface)	-	-	-	-	1	2	-	-	-	-	-	-	3
		*Structural Failure	-	-	-	1	1	1	-	-	-	-	-	-	3
		*Rock falls - (major) Ground Movement	1	-	-	-	-	1	-	-	-	-	-	-	2
		*Slope stability	-	1	-	-	-	-	-	-	-	-	-	-	1
		*Working at height	-	-	1	1	-	-	-	-	-	-	-	-	2
		*Ejection of Flyrock CI 64(2)	-	1	-	-	-	-	-	-	-	-	-	-	1
		*Inrush of Water , Material or Gas	-	-	-	-	1	-	-	-	-	-	-	-	1
		*Mobile Plant - tyres, rims	-	-	1	-	-	-	-	-	-	-	-	-	1
		*Outbreak of Fire U/G	-	1	-	-	-	-	-	-	-	-	-	-	1
	*Unplanned movement due to electricity CI 68(5)(d)	-	-	-	1	-	-	-	-	-	-	-	-	1	
Total	17	16	17	24	14	12	-	-	-	-	-	-	100		
*Non Spec Acc Ending in Fat/Injury	*SBI/SI	1	1	1	2	5	1	1	-	-	-	-	-	12	
	*Lost Time Injury	-	-	-	1	-	-	-	-	-	-	-	-	1	
	*Minor injury	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Total	1	1	1	3	5	1	1	-	-	-	-	-	13	
*MIA Total	20	21	18	27	19	13	1	-	-	-	-	-	119		
Explosives	Explosives Regulation 2005	Serious Incidents involving explosives CI 75	-	-	-	-	1	-	-	-	-	-	-	1	
	Total	-	-	-	-	1	-	-	-	-	-	-	-	1	
Explosives Total	-	-	-	-	1	-	-	-	-	-	-	-	1		
MHS	MHSR 2007 CI 145	145(e) uncontrolled explosion or fire	-	-	-	-	-	-	15	18	13	13	15	74	
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	2	3	8	4	8	25	
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	1	6	2	5	8	22	
		145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present	-	-	-	-	-	-	4	4	3	1	-	-	12
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	1	3	4	1	1	-	10
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	1	4	2	2	-	-	9
145(j) the loss of control of a vehicle or other machinery at the mine	-	-	-	-	-	-	-	-	2	3	4	-	9		

Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13 continued

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total		
MHS	MHSR 2007 CI 145	145(d)(ii) any incident involving electricity; (ii) where a vehicle, machinery or other plant makes contact with an energised high voltage source involving a risk to any person)	-	-	-	-	-	-	-	1	-	3	-	4		
		145(c)(i) damage to any plant, equipment, building or structure	-	-	-	-	-	-	-	-	-	-	1	1	2	
		145(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	-	2	-	-	2	
		145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	-	1	-	-	1	-	2	
		145(p) burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	1	-	-	-	1	2	
		145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	-	1	-	-	-	-	1	
		145(g) uncontrolled issue of gas or fluids	-	-	-	-	-	-	-	-	-	-	1	-	1	
	Total	-	-	-	-	-	-	-	27	41	37	36	34	175		
	MHSR 2007 CI 146(1)	146(1)(f) problem or fault in explosive product or accessory	-	-	-	-	-	-	-	-	-	-	-	2	2	
		Total	-	-	-	-	-	-	-	-	-	-	-	2	2	
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	2	7	5	8	4	26	
		Total	-	-	-	-	-	-	-	2	7	5	8	4	26	
	MHS Total		-	-	-	-	-	-	29	48	42	44	40	203		
	N/A	Complaint	Mine Employee	-	2	3	1	-	3	2	6	-	2	1	20	
Public Complaint			-	2	3	1	-	1	-	1	1	1	2	12		
Other			-	1	1	3	-	2	-	-	-	-	-	7		
Total			-	5	7	5	-	6	2	7	1	3	3	39		
High Potential Incident		Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,wind ers	1	4	8	3	4	1	4	2	-	-	-	-	27	
		Electrical energy from apparatus such as cables, transformers, switch gear, connections	1	2	-	3	3	6	1	1	-	-	-	-	17	
		Other	1	-	2	-	1	2	1	2	-	1	-	-	10	
		Mining equipment	-	-	2	-	1	2	2	-	1	-	-	-	8	
		High wall/Pit wall	-	-	1	-	3	3	-	-	-	-	-	-	7	
		Thermal heat	-	-	-	1	2	1	-	-	-	-	-	-	4	
		Explosive Incident not a Dangerous Incident	-	-	-	-	-	-	2	-	1	-	-	-	3	
		Slopes/grades/ramps where equipment can move in a uncontrolled manner	1	1	-	-	1	-	-	-	-	-	-	-	3	
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	-	1	-	-	-	-	-	-	-	-	-	1	
		Fixed mechanical equipment such as conveyors, crushers, screens	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Stored pressure/energy such as accumulators, spring/tension devices	-	1	-	-	-	-	-	1	-	-	-	-	2	
		Biological such as exposure to work related bacteria	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Explosive gases such as H, CH4	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Total	6	8	14	7	15	17	9	6	1	1	-	-	84	
		UNKNOWN	UNKNOWN	-	-	-	-	-	-	-	-	-	-	-	-	-
			Total	-	-	-	-	-	-	-	-	-	-	-	-	-
N/A Total		6	13	21	12	15	23	11	13	2	4	3	123			
Non-Coal Metalliferous Surface Incidents Total			26	34	39	39	35	36	41	61	44	48	43	446		

Figure 162

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total		
*MIA	*Fatality	*Not Applicable	1	-	-	-	-	-	-	-	-	-	-	1		
		Total	1	-	-	-	-	-	-	-	-	-	-	1		
	*Minor Accident MIA	*Lost Time Injury	3	-	-	-	-	-	-	-	-	-	-	-	3	
		*MTI with NO Lost Time	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Total	4	-	-	-	-	-	-	-	-	-	-	-	4	
	*Pre Sept 2000 Dangerous Incident MIA	*Water - in large volumes	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Total	1	-	-	-	-	-	-	-	-	-	-	-	1	
	*Serious Injury MIA	*Fracture(s)	1	4	-	-	-	-	-	-	-	-	-	-	5	
		Total	1	4	-	-	-	-	-	-	-	-	-	-	5	
	*MIA	Dangerous Incident	*Mobile Plant - fires on equipment (underground)	3	4	9	26	29	9	-	-	-	-	-	-	80
			*Electric shock cl 68(5)	9	11	13	7	7	8	1	-	-	-	-	-	56
			*Mobile Plant - fires on equipment (surface)	14	14	3	1	1	2	-	-	-	-	-	-	35
			*Outbreak of Fire U/G	9	14	3	2	-	1	-	-	-	-	-	-	29
			*Mobile Plant - general transport/traffic	3	2	4	13	5	2	2	-	-	-	-	-	31
			*Rock falls - (major) Ground Movement	1	2	7	2	1	-	-	-	-	-	-	-	13
			*Outbreak of fire due to electrical equipment Cl 68(5)(c)	5	1	3	1	-	-	-	-	-	-	-	-	10
			*Isolation of energy	1	3	1	1	2	-	-	-	-	-	-	-	8
			*Inrush of Water , Material or Gas	-	1	1	2	-	3	-	-	-	-	-	-	7
			*Structural Failure	-	-	-	4	2	2	-	-	-	-	-	-	8
			*Unplanned movement due to electricity Cl 68(5)(d)	2	1	2	1	-	-	-	-	-	-	-	-	6
			*Winding systems	-	1	2	1	1	-	-	-	-	-	-	-	5
			*Guarding - conveyors	-	-	2	1	-	-	-	-	-	-	-	-	3
			*Slope stability	-	1	-	1	1	-	-	-	-	-	-	-	3
			*Fixed Equipment - fire (surface)	-	-	-	1	-	-	1	-	-	-	-	-	2
			*Misfire - significant Cl 65(1)	-	2	-	-	-	-	-	-	-	-	-	-	2
			*Ventilation U/G - fumes	1	-	1	-	-	-	-	-	-	-	-	-	2
			*Hazardous chemicals	-	-	1	-	-	-	-	-	-	-	-	-	1
			*Working at height	-	-	1	-	-	-	-	-	-	-	-	-	1
			Total	48	57	53	64	49	27	4	-	-	-	-	-	-
	*Non Spec Acc	*SBI/SI	-	2	1	5	8	3	3	-	-	-	-	-	22	
		*Lost Time Injury	-	-	2	3	3	5	-	-	-	-	-	-	13	
		*Minor injury	-	1	-	-	2	-	-	-	-	-	-	-	3	
*Fatality		-	-	-	-	1	-	-	-	-	-	-	-	1		
Total		-	3	3	8	14	8	3	-	-	-	-	-	39		
*MIA Total	55	64	56	72	63	35	7	-	-	-	-	-	-	352		
Explosives	Explosives Regulation 2005	75(1)(a) uncontrolled explosion or fire involving explosives	-	-	-	-	1	-	-	-	-	1	-	2		
		75(1)(c) incident involving explosives and involving risk of an uncontrolled explosion of fire or of any such death, injury or damage	-	-	-	-	-	-	-	-	-	1	-	1	2	
		39 Loss or theft of explosives or explosive precursors	-	-	-	-	-	-	-	-	-	-	1	-	1	
		Total	-	-	-	-	-	1	-	-	-	1	2	1	5	
Explosives Total	-	-	-	-	-	1	-	-	-	-	1	2	1	5		

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13
continued

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
MHS	MHSR 2007 CI 145	145(e) uncontrolled explosion or fire	-	-	-	-	-	-	22	28	24	37	47	158	
		145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present	-	-	-	-	-	-	2	12	14	13	36	77	
		145(j) loss of control of vehicle or other machinery	-	-	-	-	-	-	11	12	10	14	17	64	
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	1	3	5	8	15	17	49	
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	4	7	7	7	6	31	
		145(p) burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	2	6	5	9	4	26	
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	4	5	3	7	4	23	
		145(m) failure of any part of powered winding system or damage to shaft or shaft equipment	-	-	-	-	-	-	4	4	1	2	7	18	
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	-	1	3	7	2	13	
		145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	4	1	3	3	11	
		145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	1	3	2	4	-	10	
		145(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	-	-	-	-	-	-	3	2	2	2	1	10	
		145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	3	1	1	1	4	10	
		145(c)(i) damage to any plant, equipment, building or structure,	-	-	-	-	-	-	-	3	2	1	3	9	
		145(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	3	-	-	4	-	7	
	145(g) uncontrolled issue of gas or fluids	-	-	-	-	-	-	2	3	-	2	-	7		
	145(o) airblast	-	-	-	-	-	-	-	-	1	-	-	1		
	Total			-	-	-	-	-	1	64	96	84	128	151	524
	MHSR 2007 CI 146(1)	MHSR 2007 CI 146(1)	146(1)(g) progressive stope or progressive pillar collapse	-	-	-	-	-	-	-	-	-	-	2	2
			146(1)(e) a significant misfire of explosives	-	-	-	-	-	-	-	1	-	-	-	1
Total									-	1	-	-	2	3	
Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome		-	-	-	-	-	-	8	13	18	15	13	67	
		Total							8	13	18	15	13	67	
MHS Total			-	-	-	-	-	1	72	110	102	143	166	594	
N/A	Complaint	Mine Employee Complaint	2	3	-	2	4	2	5	5	3	1	1	28	
		Public Complaint	1	4	4	4	1	1	1	2	1	-	1	20	
		Union Official Complaint	-	-	-	-	-	2	1	-	2	-	-	5	
		Other	-	1	-	-	1	-	-	-	-	-	-	3	
		Total		3	8	4	6	6	5	7	7	6	1	3	56

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13
continued

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total		
N/A	High Potential Incident	Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,wind ers	12	10	24	23	22	20	10	1	1	-	-	123		
		Electrical energy from apparatus such as cables, transformers, switch gear, connections	2	3	3	3	6	2	2	-	-	2	-	23		
		Other	3	5	7	3	7	5	-	2	5	1	1	39		
		Roof/back	7	2	4	2	-	2	3	-	-	-	-	20		
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	2	3	4	3	4	1	-	-	-	-	17		
		Fixed mechanical equipment such as conveyors, crushers, screens	5	2	2	2	-	1	-	-	-	-	-	1	13	
		Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	4	-	1	-	-	3	-	1	-	-	-	-	9	
		Rib/sides	3	2	-	1	-	2	1	1	1	1	-	-	11	
		Mining equipment such as continuous miners, excavators, drills, shovels	-	-	1	-	2	2	-	1	1	1	1	-	8	
		Explosive gases such as H, CH4	-	4	-	-	1	-	-	-	-	-	-	-	5	
		Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	1	-	-	-	2	1	1	-	-	-	-	-	5	
		Explosive Incident not a Dangerous Incident	-	-	-	-	-	3	-	-	1	-	1	-	5	
		Flammable gases such as Acetylene, LPG	-	-	-	-	-	1	1	-	-	-	-	-	2	
		Other gases with health effects such as	-	-	-	-	1	3	-	-	-	-	-	-	4	
		Slopes/grades/ramps where equipment can move in a uncontrolled manner	2	-	-	-	-	-	-	-	-	-	-	-	2	
		Stored pressure/energy such as accumulators, spring/tension devices	2	-	-	-	-	1	-	-	-	-	-	-	3	
		Explosive dusts such as coal, sulphide dust	-	-	-	-	-	-	-	1	-	-	-	-	1	
		Dusts that can effect health such as coal, silica	1	-	-	-	1	-	-	-	-	-	-	-	2	
		Floor	-	-	1	-	-	1	-	-	-	-	-	-	2	
		Spontaneous combustion such as coal	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Water - with significant rates of make	-	-	-	-	-	-	-	-	2	-	-	-	2	
		Fines or build up of combustible particles	-	-	1	-	-	-	-	-	-	-	-	-	1	
		Low wall	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Noise greater than 85dBA	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Outbreak of Fire U/G	-	-	1	-	-	-	-	-	-	-	-	-	1	
		Water - from rain or storms	-	-	-	-	-	1	-	-	-	-	-	-	1	
		Water - in large volumes	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Wildlife such as kangaroos, snakes, spiders	-	-	-	-	-	1	-	-	-	-	-	-	1	
		Total			44	30	48	38	45	53	19	7	11	4	3	302
		Other	Non-mining Fatality/Injury		2	-	-	-	-	-	-	-	-	1	1	4
			Total		2	-	-	-	-	-	-	-	-	1	1	4
		UNKNOWN	Unknown		2	-	-	-	-	-	-	-	-	-	-	2
			Total		2	-	-	-	-	-	-	-	-	-	-	2
		N/A Total			51	38	52	44	51	58	26	14	17	6	7	364
		Non-Coal Metalliferous Underground Incidents Total			106	102	108	116	115	94	105	124	120	151	174	1,315

Figure 163

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total		
*MIA	*Minor Accident MIA	*Lost Time Injury	3	-	-	-	-	-	-	-	-	-	-	3		
		*MTI with NO Lost Time	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Total	4	-	-	-	-	-	-	-	-	-	-	-	4	
	*Serious Injury MIA	*Fracture(s)	3	3	-	-	-	-	-	-	-	-	-	-	6	
		*Burns requiring hospital treatment	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Total	4	3	-	-	-	-	-	-	-	-	-	-	7	
	*Dangerous Incident	*Mobile Plant - general transport/traffic	10	7	10	7	3	7	1	-	-	-	-	-	45	
		*Electric shock Cl 68(5)(a)	8	7	2	3	6	3	-	-	-	-	-	-	29	
		*Outbreak of fire due to electrical equipment cl 68 (5)	2	2	5	2	1	-	-	-	-	-	-	-	12	
		*Misfire - significant Cl 65(1)(c)	2	-	2	3	2	-	-	-	-	-	-	-	9	
		*Ejection of Flyrock Cl 64(2)	1	2	-	2	-	1	1	-	-	-	-	-	7	
		*Isolation of energy	2	2	1	1	-	1	-	-	-	-	-	-	7	
		*Guarding - conveyors	-	-	-	-	-	-	3	-	-	-	-	-	-	3
		*Mobile Plant - fires on equipment (surface)	-	1	1	-	-	-	-	-	-	-	-	-	-	2
		*Slope stability	-	-	1	-	1	1	-	-	-	-	-	-	-	3
		*Explosives - NEC	-	-	-	-	1	2	-	-	-	-	-	-	-	3
		*Fault with an explosive Cl 66(2)	-	-	-	-	-	1	1	-	-	-	-	-	-	2
		*Rock falls - (major) Ground Movement	1	1	-	-	-	-	-	-	-	-	-	-	-	2
		*Structural Failure	-	-	-	-	-	2	-	-	-	-	-	-	-	2
		*Working at height	-	-	1	1	-	-	-	-	-	-	-	-	-	2
		*Fixed Equipment - fire (surface)	-	-	-	-	-	-	1	-	-	-	-	-	-	1
		*Mobile Plant - tyres, rims	1	-	-	-	-	-	-	-	-	-	-	-	-	1
		*Unplanned movement due to electricity Cl 68(5)(d)	1	-	-	-	-	-	-	-	-	-	-	-	-	1
	Total	28	22	23	20	18	18	2	-	-	-	-	-	-	131	
	*Non Spec Acc Ending in Fat/Injury	*SBI/SI	1	3	1	2	9	2	-	-	-	-	-	-	18	
		*Lost Time Injury	-	1	-	1	1	1	-	-	-	-	-	-	4	
		*Minor injury	-	-	-	-	-	-	1	-	-	-	-	-	1	
Total		1	4	1	3	10	4	-	-	-	-	-	-	23		
*MIA Total	37	29	24	23	28	22	2	-	-	-	-	-	-	165		
Explosives	Explosives Regulation 2005	75(1)(c) incident involving explosives and involving risk of an uncontrolled explosion or fire or of any such death, injury or damage	-	-	-	1	-	-	-	-	-	-	1	2		
		75(1)(a) uncontrolled explosion or fire involving explosives	-	-	-	-	1	-	-	-	-	-	-	-	1	
		Total	-	-	-	1	1	-	-	-	-	-	-	-	3	
Explosives Total	-	-	-	1	1	-	-	-	-	-	-	-	-	3		
MHS	MHSR 2007 Cl 145	145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	8	7	10	8	10	43		
		145(j) loss of control of vehicle or other machinery	-	-	-	-	-	-	6	7	3	8	6	30		
		145(e) uncontrolled explosion or fire	-	-	-	-	-	-	5	4	8	5	7	29		
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	3	1	7	7	10	28		
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	2	2	4	4	8	20		

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13 continued

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
MHS	MHSR 2007 CI 145	145(c)(i) damage to any plant, equipment, building or structure	-	-	-	-	-	-	2	1	6	3	6	18	
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	5	2	2	4	1	14	
		145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	4	3	2	3	-	12	
		145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	1	7	1	1	1	11	
		145(g) an uncontrolled issue of gas or fluids	-	-	-	-	-	-	-	1	3	4	1	9	
		145(d)(ii) where a vehicle, machinery or other plant makes contact with an energised high voltage source involving a risk to any person)	-	-	-	-	-	-	-	1	3	2	1	7	
		145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	1	2	3	1	7	
		145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present	-	-	-	-	-	-	1	1	3	-	-	5	
		145(l) ejection of fly rock so that it falls outside a blast exclusion zone (being the area below, at or above ground level from which all unauthorised persons are excluded during blasting)	-	-	-	-	-	-	-	-	1	2	1	4	
		145(p) the burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	1	-	-	2	3
	145(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	-	-	-	1	1	
	Total	-	-	-	-	-	-	-	37	39	55	54	56	241	
	MHSR 2007 CI 146(1)	146(1)(e) significant misfire of explosives	-	-	-	-	-	-	-	1	-	2	2	2	7
		146(1)(f) a problem or fault in an explosive product or accessory	-	-	-	-	-	-	-	-	2	-	1	1	4
		146(1)(d) spill or incident resulting in exposure or potential exposure of person to notifiable or prohibited carcinogenic substance	-	-	-	-	-	-	-	-	-	-	1	1	2
	Total	-	-	-	-	-	-	-	1	2	2	4	4	13	
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	7	10	21	18	18	74
		Total	-	-	-	-	-	-	-	7	10	21	18	18	74
	MHS Total									45	51	78	76	78	328

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 2002-03 to 2012-13 continued

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
N/A	Complaint	Public Complaint	12	7	11	11	10	7	7	11	9	9	4	98	
		Mine Employee Complaint	2	2	2	-	4	1	3	6	4	6	4	34	
		Other	2	2	3	1	-	1	1	1	1	1	1	14	
		Union Official Complaint	-	-	-	-	-	-	-	-	-	-	-	1	1
		Total	16	11	16	12	14	9	11	18	14	16	10	147	
	High Potential Incident	Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,wind ers	14	11	16	12	10	16	8	3	2	3	2	97	
		Other	11	9	13	7	9	3	-	1	1	1	3	58	
		Electrical energy from apparatus such as cables, transformers, switch gear, connections	2	-	2	1	2	4	2	1	2	-	-	16	
		Slopes/grades/ramps where equipment can move in a uncontrolled manner	4	6	2	1	-	-	-	-	-	-	-	13	
		Mining equipment such as continuous miners, excavators, drills, shovels	2	1	1	1	3	2	-	-	-	2	-	12	
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	3	1	1	2	-	1	-	-	2	-	-	10	
		Fixed mechanical equipment such as conveyors, crushers, screens	-	1	1	-	-	2	3	-	-	-	-	7	
		Explosive Incident not	-	-	-	-	-	1	2	-	1	1	1	6	
		High wall/Pit wall	-	-	1	1	-	1	-	-	1	-	1	5	
		Water - in large volumes	-	-	-	-	-	-	-	2	-	1	1	4	
		Flammable/explosive liquid chemicals such as petrol, diesel, oils,	2	-	-	-	-	-	-	-	-	1	-	3	
		Dusts that can effect	-	-	1	-	-	-	-	1	-	-	-	2	
		Floor	1	-	-	1	-	-	-	-	-	-	-	2	
		Hydraulic pressure from pump stations & reticulation or equipment	-	-	-	-	-	-	-	-	-	1	-	1	2
		Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	-	-	-	-	1	1	-	-	-	-	-	2	
		Low wall	1	-	-	-	-	-	-	-	-	-	-	1	
		Noise greater than 85dBA	-	1	-	-	-	-	-	-	-	-	-	1	
		Stored pressure/energy such as accumulators, spring/tension devices	-	-	-	-	1	-	-	-	-	-	-	1	
		Water - from rain or storms	-	-	-	-	-	-	-	-	1	-	-	1	
		Explosive gases	-	-	-	-	-	-	-	-	-	-	-	-	
		Fines or build up of	-	-	-	-	-	-	-	-	-	-	-	-	
		Flammable gases such as Acetylene, LPG	-	-	-	-	-	-	-	-	-	-	-	-	
		Lightning strike	-	-	-	-	-	-	-	-	-	-	-	-	
	Total	40	30	38	26	26	31	15	8	11	9	9	243		
	Other	Non-mining Fatality/injury	1	1	-	-	1	-	-	-	1	-	1	5	
		Total	1	1	-	-	1	-	-	-	1	-	1	5	
	UNKNOWN	UNKNOWN	3	-	-	-	-	-	-	-	-	-	-	3	
		Total	3	-	-	-	-	-	-	-	-	-	-	3	
N/A Total		60	42	54	38	41	40	26	26	26	25	20	398		
Non-Coal Extractives Surface IncidentsTotal		97	71	78	62	70	62	73	77	104	101	99	894		

Figure 164

Non-Coal Extractives Underground Incidents by Incident Type and Subtype 2002-03 to 2012-13

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
*MIA	*Dangerous Incident	*Airblast	-	-	-	1	-	-	-	-	-	-	-	1	
		*Ejection of Flyrock CI 64(2)	-	-	1	-	-	-	-	-	-	-	-	-	1
		*Electric shock CI 68(5)(a)	-	-	-	1	-	-	-	-	-	-	-	-	1
		*Rock falls - (major) Ground Movement	-	1	-	-	-	-	-	-	-	-	-	-	1
		Total	-	1	1	2	-	-	-	-	-	-	-	-	4
*MIA Total			-	1	1	2	-	-	-	-	-	-	-	4	
MHS	MHSR 2007 CI 145	145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	1	2	-	-	3	
		145(e) uncontrolled explosion or fire	-	-	-	-	-	-	-	-	-	-	2	2	
		145(j) loss of control of vehicle or other machinery	-	-	-	-	-	-	-	-	-	-	2	-	2
		145(n) unplanned fall of ground that impedes passage , disrupts production or ventilation or involves failure of ground support where persons could be present	-	-	-	-	-	-	-	-	-	-	1	1	2
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	-	-	-	-	-	1	1
		145(p) the burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	1	-	-	-	1
	Total	-	-	-	-	-	-	-	-	2	2	3	4	11	
	MHSR 2007 CI 146(1)	146(1)(e) significant misfire of explosives	-	-	-	-	-	-	1	-	-	-	-	-	1
	Total	-	-	-	-	-	-	-	1	-	-	-	-	-	1
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	-	-	1	1
	Total	-	-	-	-	-	-	-	-	-	-	-	-	1	1
MHS Total			-	-	-	-	-	-	1	2	2	3	5	13	
N/A	Complaint	Mine Employee Complaint	-	-	1	1	-	-	-	-	-	-	-	2	
		Other	-	-	1	-	-	-	-	-	-	-	-	-	1
		Total	-	-	2	1	-	-	-	-	-	-	-	-	3
	High Potential Incident	Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	-	-	-	1	1	2	-	-	-	-	-	-	4
		Roof/back	-	-	1	1	-	-	-	-	-	-	-	-	2
		Electrical energy from apparatus such as cables, transformers, switch gear, connections	-	-	1	-	-	-	-	-	-	-	-	-	1
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	-	-	1	-	-	-	-	-	-	-	-	1
Total	-	-	2	3	1	2	-	-	-	-	-	-	8		
N/A Total			-	-	4	4	1	2	-	-	-	-	-	11	
Non-Coal Extractives Underground Incidents Total			-	1	5	6	1	2	1	2	2	3	5	28	

Figure 165

Non-Coal Other Incidents by Incident Type and Subtype 2002-03 to 2012-13

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total		
*MIA	*Minor Accident MIA	*MTI with NO Lost Time	1	-	-	-	-	-	-	-	-	-	-	1		
		Total	1	-	-	-	-	-	-	-	-	-	-	1		
	*Dangerous Incident	*Mobile Plant - general transport/traffic	*Mobile Plant - general transport/traffic	1	-	-	-	1	-	-	-	-	-	-	2	
			*Isolation of energy	-	-	-	1	-	-	-	-	-	-	-	-	1
			*Rock falls - (major) Ground Movement	-	-	1	-	-	-	-	-	-	-	-	-	1
			*Structural Failure	-	1	-	-	-	-	-	-	-	-	-	-	1
			*Working at height	-	-	-	-	-	-	1	-	-	-	-	-	1
			Total	1	1	1	1	1	1	1	-	-	-	-	-	6
	*Non Spec Acc Ending in Fat/Injury	*SBI/SI	-	2	-	-	-	-	-	-	-	-	-	-	2	
	Total	Total	-	2	-	-	-	-	-	-	-	-	-	-	2	
*MIA Total	Total	2	3	1	1	1	1	1	-	-	-	-	-	9		
MHS	MHSR 2007 CI 145	145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present	-	-	-	-	-	-	1	2	-	-	-	3		
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	1	-	-	-	1	
		Total	-	-	-	-	-	-	-	1	2	1	-	-	4	
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	1	-	-	-	-	1	2	
	Total	Total	-	-	-	-	-	-	1	-	-	-	-	1	2	
MHS Total	Total	-	-	-	-	-	-	2	2	1	-	-	1	6		
N/A	Complaint	Mine Employee Complaint	-	1	-	-	-	-	-	-	1	-	1	3		
		Total	-	1	-	-	-	-	-	-	-	1	-	1	3	
	High Potential Incident	Other	Other	-	-	-	2	-	1	-	1	-	-	-	4	
			Total	-	-	-	2	-	1	-	1	-	-	-	4	
		Mining equipment such as continuous miners, excavators, drills, shovels	Mining equipment such as continuous miners, excavators, drills, shovels	-	-	-	-	-	-	-	-	-	-	1	-	1
			Total	-	-	-	-	-	-	-	-	-	-	1	-	1
	Mobile mechanical equipment such as trucks, load-haul-dumps, utes, rail, winders	Mobile mechanical equipment such as trucks, load-haul-dumps, utes, rail, winders	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Total	1	-	-	2	-	1	-	1	-	1	-	-	6	
	Other	Non-mining Fatality/Injury	-	-	-	-	-	-	-	-	1	-	-	-	1	
		Total	-	-	-	-	-	-	-	-	1	-	-	-	1	
UNKNOWN	UNKNOWN	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Total	-	-	-	-	-	-	-	-	-	-	-	-	-		
N/A Total	Total	1	1	-	2	-	1	-	2	1	1	1	1	10		
Non-Coal Other Incidents Total			3	4	1	3	1	2	2	4	2	1	2	25		

Figure 166

Petroleum (Onshore) Incidents by Incident Type and Subtype 2002-03 to 2012-13

Legislation Category	Incident Type	Incident Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
POASch	POASch 1992	POASch1992 CI 304 potentially hazardous event	-	-	-	-	-	-	1	8	4	1	1	15	
		POASch1992 CI 301(2) death or serious injury	-	1	-	-	3	-	2	3	1	-	-	10	
		POASch1992 CI 306(1)(c) uncontrolled escape or ignition of petroleum, flammable or combustible material or toxic chemicals causing potentially hazardous situation	-	-	-	-	-	-	-	1	1	1	-	-	3
		Total	-	1	-	-	3	-	4	4	12	6	1	1	28
N/A	Complaint	Public Complaint	-	-	-	-	-	-	-	-	-	-	1	1	
		Total	-	-	-	-	-	-	-	-	-	-	-	1	
Petroleum Incidents Total			-	1	-	-	3	-	4	12	6	1	2	29	

Appendix A.2 Hours Worked

Figure 167

NSW Coal Hours Worked by Operation Type 2002-03 to 2012-13

Financial Year	Coal Surface			Coal Underground			Coal Total		
	Employees	Contractors	Total	Employees	Contractors	Total	Employees	Contractors	Total
2002-03	-	-	9,485,000	-	-	9,735,400	-	-	19,220,400
2003-04	-	-	9,918,400	-	-	9,708,100	-	-	19,626,500
2004-05	-	-	10,604,500	-	-	10,684,000	-	-	21,288,500
2005-06	-	-	12,455,955	-	-	12,718,055	-	-	25,174,010
2006-07	-	-	13,502,348	-	-	13,441,113	-	-	26,943,461
2007-08	10,213,714	7,186,551	17,400,265	9,999,676	4,398,345	14,398,021	20,213,390	11,584,896	31,798,286
2008-09	11,493,880	7,766,499	19,260,379	11,913,213	5,578,636	17,491,849	23,407,093	13,345,135	36,752,228
2009-10	12,050,472	9,854,466	21,904,938	12,015,187	6,321,027	18,336,214	24,065,659	16,175,493	40,241,152
2010-11	14,703,348	11,494,608	26,197,956	11,961,111	6,526,147	18,487,258	26,664,459	18,020,755	44,685,214
2011-12	17,747,896	13,920,143	31,668,039	12,835,661	8,157,148	20,992,809	30,583,557	22,077,291	52,660,848
2012-13	18,422,352	13,010,852	31,433,204	15,297,222	7,075,052	22,372,274	33,719,574	20,085,904	53,805,478

Figure 168

NSW Metalliferous Hours Worked by Operation Type 2002-03 to 2012-13

Financial Year	Metalliferous Surface			Metalliferous Underground			Metalliferous Total		
	Employees	Contractors	Total	Employees	Contractors	Total	Employees	Contractors	Total
2002-03	-	-	2,329,522	-	-	4,177,375	-	-	6,506,897
2003-04	-	-	2,329,522	-	-	6,989,312	-	-	9,318,834
2004-05	-	-	2,868,840	-	-	4,374,582	-	-	7,243,422
2005-06	-	-	3,093,397	-	-	3,941,818	-	-	7,035,215
2006-07	-	-	3,253,094	-	-	4,921,330	-	-	8,174,424
2007-08	-	-	3,578,403	-	-	5,413,463	-	-	8,991,866
2008-09	2,159,677	1,694,092	3,853,769	4,317,927	2,264,033	6,581,960	6,477,604	3,958,125	10,435,729
2009-10	2,118,902	1,886,932	4,005,834	3,991,693	2,772,505	6,764,198	6,110,595	4,659,437	10,770,032
2010-11	2,259,360	2,995,427	5,254,787	3,759,738	4,838,065	8,597,803	6,019,098	7,833,492	13,852,590
2011-12	2,048,352	2,559,988	4,608,340	4,459,771	6,379,569	10,839,340	6,508,123	8,939,557	15,447,680
2012-13	1,920,597	2,071,179	3,991,776	4,795,609	4,554,184	9,349,793	6,716,206	6,625,363	13,341,569

Figure 169

NSW Extractives Total Hours Worked 2002-03 to 2012-13

Financial Year	Extractives Total		
	Employees	Contractors	Total
2002-03	-	-	2,298,646
2003-04	-	-	2,020,910
2004-05	-	-	2,444,727
2005-06	-	-	3,252,521
2006-07	-	-	4,010,397
2007-08	-	-	4,411,437
2008-09	3,506,167	1,118,521	4,624,688
2009-10	3,109,223	970,667	4,079,890
2010-11	3,159,484	1,028,643	4,188,127
2011-12	3,512,765	1,114,539	4,627,304
2012-13	3,182,454	1,150,778	4,333,232

Appendix A.3 Fatalities

Figure 170

NSW Coal, Metalliferous & Extractives Fatalities by Sector 2002-03 to 2012-13

Sector	Operation Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Coal	Surface	-	1	-	-	-	-	-	-	-	-	-	1
	Underground	-	2	-	-	1	-	3	-	1	-	-	7
	Total	-	3	-	-	1	-	3	-	1	-	-	8
Metalliferous	Underground	1	-	-	-	1	-	-	-	-	-	1	3
	Total	1	-	-	-	1	-	-	-	-	-	1	3
Extractives	Surface	-	-	1	-	-	-	-	-	-	-	-	1
	Total	-	-	1	-	-	-	-	-	-	-	-	1
Opal Claims	Underground	-	-	-	-	-	-	-	-	-	-	1	1
	Total	-	-	-	-	-	-	-	-	-	-	1	1
Petroleum	Surface	-	-	-	-	-	-	-	1	-	-	-	1
	Total	-	-	-	-	-	-	-	1	-	-	-	1
Total		1	3	1	-	2	-	3	1	1	-	2	14

Figure 171

NSW Coal, Metalliferous & Extractives Fatalities by Operation Type 2002-03 to 2012-13

Operation Type	Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Surface	Coal	-	1	-	-	-	-	-	-	-	-	-	1
	Extractives	-	-	1	-	-	-	-	-	-	-	-	1
	Petroleum	-	-	-	-	-	-	-	1	-	-	-	1
	Total	-	1	1	-	-	-	-	1	-	-	-	3
Underground	Coal	-	2	-	-	1	-	3	-	1	-	-	7
	Metalliferous	1	-	-	-	1	-	-	-	-	-	1	3
	Opal Claims	-	-	-	-	-	-	-	-	-	-	1	1
	Total	1	2	-	-	2	-	3	-	1	-	2	11
Total	1	3	1	-	2	-	3	1	1	-	2	14	

Appendix A.4 Lost Time Injuries (LTIs)

Figure 172

NSW Coal, Metalliferous & Extractives Lost Time Injuries by Sector 2002-03 to 2012-13

Sector	Operation Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Coal	Surface	105	103	84	79	120	48	64	71	53	89	80	816
	Underground	346	319	292	304	319	215	237	215	218	187	160	2,652
	Total	451	422	376	383	439	263	301	286	271	276	240	3,468
Metalliferous	Surface	3	3	3	7	15	5	8	8	5	9	5	66
	Underground	60	58	28	25	34	35	27	39	26	24	19	356
	Total	63	61	31	32	49	40	35	47	31	33	24	422
Extractives	Surface	61	61	22	27	28	25	56	45	53	47	52	425
	Total	61	61	22	27	28	25	56	45	53	47	52	425
Total		575	544	429	442	516	328	392	378	355	356	316	4,315

Figure 173

NSW Coal, Metalliferous & Extractives Lost Time Injuries by Operation Type 2002-03 to 2012-13

Operation Type	Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Surface	Coal	105	103	84	79	120	48	64	71	53	89	80	816
	Metalliferous	3	3	3	7	15	5	8	8	5	9	5	66
	Extractives	61	61	22	27	28	25	56	45	53	47	52	425
	Total	169	167	109	113	163	78	128	124	111	145	137	1,307
Underground	Coal	346	319	292	304	319	215	237	215	218	187	160	2,652
	Metalliferous	60	58	28	25	34	35	27	39	26	24	19	356
	Total	406	377	320	329	353	250	264	254	244	211	179	3,008
Total		575	544	429	442	516	328	392	378	355	356	316	4,315

Appendix A.5 Total Recordable Injuries (TRIs and TRIFRs)

Figure 174
NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Sector 2007-08 to 2012-13

Sector	Operation Type	2007-08			2008-09			2009-10			2010-11			2011-12			2012-13			Total												
		FI	LTI	TR	FI	LTI	TR	FI	LTI	TR	FI	LTI	TR	FI	LTI	TR	FI	LTI	TR	TR	TR											
Coal	Surface	-	48	81	96	225	-	64	81	62	207	-	71	80	71	222	94	227	-	89	87	65	241	-	80	68	67	215	1,337			
	Underground	-	215	591	410	1,216	3	237	538	213	891	-	215	579	120	914	1	218	472	128	819	-	187	462	136	785	-	160	303	148	611	5,336
	Total	-	263	672	506	1,441	3	301	619	275	1,198	-	266	659	191	1,136	1	271	562	212	1,046	-	276	549	201	1,026	-	240	371	215	826	6,673
Metalliferous	Surface	-	-	-	-	-	-	8	16	13	37	-	8	20	8	36	-	5	65	18	88	-	9	15	21	45	-	5	14	16	35	241
	Underground	-	-	-	-	-	-	27	91	111	229	-	39	94	66	199	-	26	102	60	188	-	24	115	99	238	1	19	121	85	226	1,080
	Total	-	-	-	-	-	-	35	107	124	266	-	47	114	74	235	-	31	167	78	276	-	33	130	120	283	1	24	135	101	261	1,321
Extractives	Surface	-	-	-	-	-	-	56	61	68	185	-	45	97	71	213	-	53	79	49	181	-	47	74	60	181	-	52	58	40	150	910
	Underground	-	-	-	-	-	-	56	61	68	185	-	45	97	71	213	-	53	79	49	181	-	47	74	60	181	-	52	58	40	150	910
	Total	-	-	-	-	-	-	332	787	467	1,649	-	378	870	336	1,584	1	355	808	339	1,503	-	356	753	381	1,490	1	316	564	356	1,237	8,904

Figure 175
NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Operation Type 2007-08 to 2012-13

Sector	Operation Type	2007-08			2008-09			2009-10			2010-11			2011-12			2012-13			Total												
		FI	LTI	TR	FI	LTI	TR	FI	LTI	TR	FI	LTI	TR	FI	LTI	TR	FI	LTI	TR	TR	TR											
Surface	Coal	-	48	81	96	225	-	64	81	62	207	-	71	80	71	222	-	53	90	84	227	-	89	87	65	241	-	80	68	67	215	1,337
	Metalliferous	-	-	-	-	-	-	8	16	13	37	-	8	20	8	36	-	5	65	18	88	-	9	15	21	45	-	5	14	16	35	241
	Extractives	-	-	-	-	-	-	56	61	68	185	-	45	97	71	213	-	53	79	49	181	-	47	74	60	181	-	52	58	40	150	910
Underground	Coal	-	48	81	96	225	-	64	81	62	207	-	71	80	71	222	-	111	234	151	496	-	145	176	146	467	-	137	140	123	400	2,488
	Metalliferous	-	-	-	-	-	-	27	91	111	229	-	39	94	66	199	-	26	102	60	188	-	24	115	99	238	1	19	121	85	226	1,080
	Total	-	215	591	410	1,216	3	264	629	324	1,220	-	254	673	186	1,113	1	244	574	168	1,007	-	211	577	235	1,023	1	179	424	233	837	6,416
Total	-	263	672	506	1,441	3	392	787	467	1,649	-	378	870	336	1,584	1	355	808	339	1,503	-	356	753	381	1,490	1	316	564	356	1,237	8,904	

Appendix A.6 Serious Bodily Injuries (SBIs)

Figure 176
Serious Bodily Injuries by Sector 2002-03 to 2012-13

Sector	Operation Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Coal	Surface	11	5	9	11	5	8	6	10	10	12	5	92
	Underground	26	43	25	24	27	18	22	22	18	23	18	266
	Total	37	48	34	35	32	26	28	32	28	35	23	358
Metalliferous	Surface	3	5	2	7	6	1	2	2	1	4	2	35
	Underground	1	7	4	7	11	4	8	3	5	8	1	59
	Total	4	12	6	14	17	5	10	5	6	12	3	94
Extractives	Surface	7	7	2	4	10	2	5	3	3	5	2	50
	Total	7	7	2	4	10	2	5	3	3	5	2	50
Non-Coal Other	Surface	1	1	1	1	1	1	-	-	-	-	-	6
	Underground	-	1	-	-	-	-	-	-	-	-	-	1
	Total	1	2	1	1	1	1	-	-	-	-	-	7
Petroleum	Surface	-	1	-	-	3	-	1	4	-	-	-	9
	Total	-	1	-	-	3	-	1	4	-	-	-	9
Total		49	70	43	54	63	34	44	44	37	52	28	518

Figure 177
Serious Bodily Injuries by Operation Type 2002-03 to 2012-13

Operation Type	Sector	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Surface	Coal	11	5	9	11	5	8	6	10	10	12	5	92
	Metalliferous	3	5	2	7	6	1	2	2	1	4	2	35
	Extractives	7	7	2	4	10	2	5	3	3	5	2	50
	Non-Coal Other	1	1	1	1	1	1	-	-	-	-	-	6
	Petroleum	-	1	-	-	3	-	1	4	-	-	-	9
	Total		22	19	14	23	25	12	14	19	14	21	9
Underground	Coal	26	43	25	24	27	18	22	22	18	23	18	266
	Metalliferous	1	7	4	7	11	4	8	3	5	8	1	59
	Non-Coal Other	-	1	-	-	-	-	-	-	-	-	-	1
	Total	27	51	29	31	38	22	30	25	23	31	19	326
Total		49	70	43	54	63	34	44	44	37	52	28	518

Figure 178
Serious Bodily Injuries by Mechanism 2002-03 to 2012-13

Mechanism	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Falls from the same level (including trips and slips)	11	17	6	9	14	12	7	10	10	18	11	125
Fall from a height	11	13	4	9	13	7	5	10	8	5	1	86
Being hit by moving objects	5	7	6	6	12	-	7	4	8	13	6	74
Being hit by falling objects	5	4	2	6	7	1	3	4	-	2	2	36
Being trapped by stationary and moving object	2	2	2	1	4	2	5	2	2	3	1	26
Hitting objects with a part of the body	1	1	6	3	2	3	3	1	1	3	2	26
Vehicle accident	3	3	3	1	-	2	4	3	2	2	1	24
Unspecified mechanism of injury	-	4	-	1	1	4	1	2	3	1	-	17
Contact with exposure to heat and cold	2	-	4	7	3	-	-	-	-	-	-	16
Single contact with chemical or substance (excludes insect and spider bites and stings)	2	3	3	2	-	-	2	2	-	-	2	16
Hitting moving objects	2	1	-	2	1	2	5	-	1	-	-	14
Contact with electricity	-	4	3	2	-	-	-	-	-	-	-	9
Other and multiple mechanisms of injury	1	1	1	-	2	1	-	-	-	1	-	7
Other contact with chemical or substance (includes insect and spider bites and stings)	1	-	1	2	-	-	-	-	-	-	2	6
Slide or cave-in	-	3	1	2	-	-	-	-	-	-	-	6
Contact with hot objects	-	-	-	-	-	-	1	2	-	-	-	3
Hitting stationary objects	-	2	-	-	-	-	-	-	-	1	-	3
Muscular stress while lifting, carrying or putting down objects	-	-	-	-	1	-	-	-	1	1	-	3
Other muscular stress	1	1	-	1	-	-	-	-	-	-	-	3
Exposure to variations in pressure (other than sound)	1	-	-	-	-	-	-	-	1	-	-	2
Unknown	1	1	-	-	-	-	-	-	-	-	-	2
Contact with, or exposure to, biological factors	-	-	1	-	-	-	-	-	-	-	-	1
Exposure to mechanical vibration	-	1	-	-	-	-	-	-	-	-	-	1
Exposure to sharp sudden sound	-	1	-	-	-	-	-	-	-	-	-	1
Muscular stress while handling objects other than lifting, carrying or putting down	-	-	-	-	-	-	-	-	-	1	-	1
Muscular stress with no objects being handled	-	-	-	-	-	-	-	-	-	1	-	1
Total	49	69	43	54	60	34	43	40	37	52	28	509

Figure 179
Serious Bodily Injuries by Agency 2002-03 to 2012-13

Agency	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Mobile plant	16	11	18	18	12	7	13	6	7	6	8	122
Underground environment	5	22	7	11	16	11	3	8	8	12	3	106
Machinery and fixed plant - general	8	10	2	6	7	4	4	1	-	3	4	49
Other materials, substances or objects	1	2	1	4	4	2	5	9	3	14	2	47
Powered equipment, tools and appliances	3	7	5	3	2	1	2	5	4	3	2	37
Outdoor environment	1	4	3	5	5	2	2	2	2	6	3	35
Human agencies	4	2	1	1	1	2	2	2	4	4	3	26
Non-powered equipment	1	2	-	2	2	1	5	1	-	1	-	15
Road transport	2	1	1	-	4	-	2	3	-	1	1	15
Crushing, Pressing, Rolling Machinery	2	-	-	-	4	1	1	1	2	1	1	13
Unspecified agencies	-	1	2	1	-	1	2	1	3	1	1	13
Indoor environment	1	2	1	-	3	1	-	1	1	-	-	10
Chemicals	1	1	2	2	-	-	-	-	-	-	-	6
Other	2	3	-	-	-	-	-	-	-	-	-	5
Other transport	1	-	-	-	-	1	1	-	2	-	-	5
Non-powered hand tools	-	-	-	1	-	-	1	-	1	-	-	3
Unknown	1	1	-	-	-	-	-	-	-	-	-	2
Total	49	69	43	54	60	34	43	40	37	52	28	509

Figure 180
Serious Bodily Injuries by Nature of Injury 2002-03 to 2012-13

Nature of Injury	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Fractures (excluding of vertebral column)	33	46	24	28	45	25	33	34	35	44	21	368
Injection of fluid	2	3	1	1	1	2	1	2	-	1	4	18
Amputation	2	2	1	1	3	2	4	-	1	4	2	22
Fracture of vertebral column with or without mention of spinal cord lesion	2	5	2	2	3	2	1	1	1	2	1	22
Asphyxia	-	1	-	1	-	-	-	-	-	1	-	3
Burns	4	7	11	13	3	-	2	2	-	-	-	42
Dislocations	4	4	2	7	3	3	1	-	-	-	-	24
Haemorrhage - Internal	-	-	1	-	-	-	1	1	-	-	-	3
Multiple injuries (only to be used where no principal injury can be identified)	1	-	-	1	2	-	-	-	-	-	-	4
Sight - Loss/Impairment	-	-	1	-	-	-	-	-	-	-	-	1
Unknown	1	1	-	-	-	-	-	-	-	-	-	2
Total	49	69	43	54	60	34	43	40	37	52	28	509

Figure 181
Serious Bodily Injuries by Bodily Location 2002-03 to 2012-13

Bodily Location	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Leg	6	9	5	11	11	7	9	8	5	7	3	81
Arm/Forearm	12	11	11	11	8	4	2	1	6	6	5	77
Ribs	8	10	4	4	6	4	5	5	6	8	1	61
Ankle	6	7	3	1	6	2	1	5	4	6	1	42
Wrist	-	-	-	-	7	4	5	5	8	5	3	37
Hands and fingers	2	7	4	5	4	1	3	2	1	3	4	36
Face	-	1	2	2	1	1	3	3	1	5	2	21
Multiple locations (more than one part of body)	1	1	1	3	3	-	2	3	-	1	1	16
Shoulder-blade	2	4	1	4	1	-	1	1	-	-	1	15
Back - unspecified	1	4	1	2	3	2	-	-	-	1	-	14
Skull	1	-	2	1	5	1	-	-	2	-	1	13
Elbow	-	2	1	4	-	-	-	2	-	3	-	12
Shoulder	1	1	-	-	2	4	2	1	-	1	-	12
Knee/Knee-cap	2	2	1	1	-	-	-	-	-	2	1	9
Feet and toes	1	1	-	-	-	1	2	-	1	1	-	7
Pelvis	-	-	-	-	1	1	2	1	-	1	1	7
Back - lower	1	1	1	-	-	1	-	2	-	-	-	6
Head (other than eye, ear and face)	1	1	-	-	-	-	2	-	-	1	1	6
Neck	1	-	2	-	-	-	1	-	2	-	-	6
Thigh	-	1	1	2	-	1	-	-	1	-	-	6
Jaw	-	2	-	1	-	-	-	1	-	-	1	5
Collar-bone	-	-	-	-	1	-	-	-	-	1	1	3
Eye	-	-	1	1	-	-	1	-	-	-	-	3
Hip	1	1	1	-	-	-	-	-	-	-	-	3
Trunk (other than back and excl internal organ)	-	1	1	-	-	-	1	-	-	-	-	3
Internal organs (located in the trunk)	-	-	-	-	1	-	1	-	-	-	-	2
Respiratory system	-	1	-	1	-	-	-	-	-	-	-	2
Unknown	1	1	-	-	-	-	-	-	-	-	-	2
Back - upper	1	-	-	-	-	-	-	-	-	-	-	1
General and unspecified locations	-	-	-	-	-	-	-	-	-	-	1	1
Total	49	69	43	54	60	34	43	40	37	52	28	509

Figure 182
Serious Bodily Injuries by Age Group 2002-03 to 2012-13

Age Group	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
<20	4	2	2	2	1	2	1	-	1	1	1	17
20-29	3	10	9	12	11	7	7	6	8	5	6	84
30-39	14	14	9	10	17	5	9	11	10	15	4	118
40-49	15	22	11	19	12	7	12	12	10	12	7	139
50-59	11	19	10	10	13	9	11	9	8	16	9	125
60-69	1	2	1	1	2	3	3	2	-	3	1	19
Unknown	1	-	1	-	4	1	-	-	-	-	-	7
Total	49	69	43	54	60	34	43	40	37	52	28	509

Figure 183
Serious Bodily Injuries by Employment Type 2002-03 to 2012-13

Employment Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Employee	33	56	25	37	34	23	26	23	21	36	15	329
Contractor	15	12	17	17	26	11	17	17	15	16	13	176
Other	1	1	1	-	-	-	-	-	1	-	-	4
Total	49	69	43	54	60	34	43	40	37	52	28	509

Appendix A.7 Notifiable Injury Outcomes

Figure 184

Notifiable Injury Outcomes by Sector mid 2006-07 to 2012-13

Sector	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Coal	>=7 days lost time/alternative duties	193	426	408	399	408	433	365	2,632
	Hospital inpatient admission	34	75	86	98	78	105	93	569
	Lost consciousness	3	5	3	6	-	1	10	28
	Entrapment	-	-	3	1	1	1	1	7
	Fatality	-	-	3	-	1	-	-	4
	Total		230	506	503	504	488	540	469
Non-Coal	Hospital inpatient admission	-	-	15	24	28	28	19	114
	>=7 days lost time/alternative duties	-	-	9	23	21	24	14	91
	Lost consciousness	-	-	1	-	-	-	-	1
	Fatality	-	-	-	-	-	-	2	2
	Total			25	47	49	52	35	208
Total		230	506	528	551	537	592	504	3,448

Figure 185

Notifiable Injury Outcomes by Surface/Underground Operation mid 2006-07 to 2012-13

Operation Type	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Surface	>=7 days lost time/alternative duties	28	31	67	77	74	84	73	434
	Hospital inpatient admission	5	12	25	28	29	47	31	177
	Lost consciousness	-	1	2	-	-	-	6	9
	Entrapment	-	-	1	-	1	-	-	2
	Total		33	44	95	105	104	131	110
Underground	>=7 days lost time/alternative duties	165	395	350	345	355	373	306	2,289
	Hospital inpatient admission	29	63	76	94	77	86	81	506
	Lost consciousness	3	4	2	6	-	1	4	20
	Fatality	-	-	2	1	-	1	1	5
	Entrapment	-	-	3	-	1	-	2	6
	Total		197	462	433	446	433	461	394
Total		230	506	528	551	537	592	504	3,448

Figure 186
Notifiable Injury Outcomes by Event Subtype mid 2006-07 to 2012-13

Event Subtype	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Work Environment	>=7 days lost time/alternative duties	118	268	276	296	339	410	346	2,053
	Hospital inpatient admission	10	42	47	67	69	96	83	414
	Lost consciousness	1	2	1	4	-	1	4	13
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	1	-	1	-	-	2
	Total		129	312	325	367	409	507	433
Mech Equip Mobile	>=7 days lost time/alternative duties	67	147	125	111	69	36	23	578
	Hospital inpatient admission	19	28	44	40	27	32	23	213
	Lost consciousness	1	3	2	2	-	-	1	9
	Entrapment	-	-	1	-	1	1	1	4
	Fatality	-	-	2	-	-	-	-	2
	Total		87	178	174	153	97	69	48
Mech Equip Fixed	>=7 days lost time/alternative duties	5	6	9	7	9	9	4	49
	Hospital inpatient admission	1	2	8	7	6	1	1	26
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	1	1
	Total		6	8	17	14	15	10	6
Strata/Ground Control	>=7 days lost time/alternative duties	1	2	4	5	5	2	4	23
	Hospital inpatient admission	2	-	-	2	-	-	1	5
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	2	1	-	-	-	3
	Fatality	-	-	-	-	-	-	-	-
	Total		3	2	6	8	5	2	5
Electrical Energy	>=7 days lost time/alternative duties	-	1	2	2	1	-	-	6
	Hospital inpatient admission	1	1	2	3	2	4	-	13
	Lost consciousness	-	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		1	2	5	5	3	4	-
Hazardous Materials	>=7 days lost time/alternative duties	2	1	-	-	-	-	-	3
	Hospital inpatient admission	1	1	-	2	1	-	-	5
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		3	2	-	2	1	-	-
Explosives	>=7 days lost time/alternative duties	-	-	-	1	4	-	-	5
	Hospital inpatient admission	-	-	-	1	1	-	-	2
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		-	-	-	2	5	-	-
Gas	>=7 days lost time/alternative duties	-	1	-	-	-	-	-	1
	Hospital inpatient admission	-	1	-	-	-	-	-	1
	Lost consciousness	-	-	-	-	-	-	5	5
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		-	2	-	-	-	-	5
Other	>=7 days lost time/alternative duties	-	-	-	-	-	-	2	2
	Hospital inpatient admission	-	-	-	-	-	-	4	4
	Lost consciousness	-	-	-	-	-	-	1	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		-	-	-	-	-	-	7
Structural Failure	>=7 days lost time/alternative duties	-	-	1	-	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	1	-	-	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		1	-	1	-	-	-	-
Self Heating	>=7 days lost time/alternative duties	-	-	-	-	1	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		-	-	-	-	1	-	-
Water	>=7 days lost time/alternative duties	-	-	-	-	1	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		-	-	-	-	1	-	-
Total		230	506	528	551	537	592	504	3,448

Figure 187

Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2012-13

Mechanism	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Falls from the same level (including trips and slips)	>=7 days lost time/alternative duties	28	46	77	75	76	81	73	456
	Hospital inpatient admission	1	6	13	12	13	19	17	81
	Lost consciousness	-	-	-	1	-	-	1	2
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	29	52	90	88	89	100	91	539
Muscular stress while lifting, carrying or putting down objects	>=7 days lost time/alternative duties	8	39	52	69	66	88	70	392
	Hospital inpatient admission	-	7	4	13	8	8	11	51
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	8	46	56	82	74	96	81	443
Other muscular stress	>=7 days lost time/alternative duties	68	106	57	60	48	40	12	391
	Hospital inpatient admission	7	7	3	6	3	4	-	30
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	75	113	60	66	51	44	12	421
Being hit by falling objects	>=7 days lost time/alternative duties	11	34	37	37	37	27	31	214
	Hospital inpatient admission	2	12	17	16	16	15	15	93
	Lost consciousness	2	1	1	-	-	-	1	5
	Entrapment	-	-	-	-	-	-	1	1
	Fatality	-	-	2	-	-	-	-	2
	Total	15	47	57	53	53	42	48	315
Being hit by moving objects	>=7 days lost time/alternative duties	8	29	26	30	25	26	29	173
	Hospital inpatient admission	6	8	23	15	20	26	15	113
	Lost consciousness	1	2	1	1	-	-	-	5
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	1	-	1	-	-	2
	Total	15	39	51	46	46	52	44	293
Unspecified mechanism of injury	>=7 days lost time/alternative duties	25	51	36	21	30	31	22	216
	Hospital inpatient admission	3	5	2	5	9	12	7	43
	Lost consciousness	-	1	-	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	1	1
	Total	28	57	38	26	39	43	30	261
Hitting objects with a part of the body	>=7 days lost time/alternative duties	11	25	30	25	40	35	24	190
	Hospital inpatient admission	-	5	7	9	8	10	13	52
	Lost consciousness	-	-	-	1	-	-	1	2
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	11	30	37	35	48	45	38	244
Muscular stress with no objects being handled	>=7 days lost time/alternative duties	9	27	26	26	31	54	30	203
	Hospital inpatient admission	2	4	1	1	1	2	5	16
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	1	-	-	1
	Fatality	-	-	-	-	-	-	-	-
	Total	11	31	27	27	33	56	35	220
Muscular stress while handling objects other than lifting, carrying or putting down	>=7 days lost time/alternative duties	2	15	15	14	29	28	42	145
	Hospital inpatient admission	-	2	-	3	3	3	5	16
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	2	17	15	17	32	31	47	161

Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2012-13 continued

Mechanism	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Being trapped by stationary and moving object	>=7 days lost time/alternative duties	1	8	9	22	8	10	11	69
	Hospital inpatient admission	3	5	5	14	7	10	6	50
	Lost consciousness	-	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	4	13	15	36	15	20	17	120
Fall from a height	>=7 days lost time/alternative duties	7	6	6	14	10	7	2	52
	Hospital inpatient admission	1	1	3	10	5	6	4	30
	Lost consciousness	-	-	-	1	-	1	-	2
	Entrapment	-	-	-	-	-	1	-	1
	Fatality	-	-	-	-	-	-	1	1
	Total	8	7	9	25	15	15	7	86
Hitting stationary objects	>=7 days lost time/alternative duties	6	9	12	10	5	4	5	51
	Hospital inpatient admission	-	2	4	2	1	3	1	13
	Lost consciousness	-	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	6	11	16	13	6	7	6	65
Vehicle accident	>=7 days lost time/alternative duties	3	6	6	2	2	6	8	33
	Hospital inpatient admission	2	2	4	1	2	3	-	14
	Lost consciousness	-	-	-	-	-	-	1	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	5	8	10	3	4	9	9	48
Hitting moving objects	>=7 days lost time/alternative duties	-	10	12	3	5	3	1	34
	Hospital inpatient admission	-	2	3	3	-	1	-	9
	Lost consciousness	-	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	12	15	7	5	4	1	44
Single contact with chemical or substance (excludes insect and spider bites and stings)	>=7 days lost time/alternative duties	1	1	4	5	2	-	3	16
	Hospital inpatient admission	-	1	3	5	4	-	6	19
	Lost consciousness	-	-	-	-	-	-	4	4
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	1	2	7	10	6	-	13	39
Other and multiple mechanisms of injury	>=7 days lost time/alternative duties	1	1	3	-	2	7	5	19
	Hospital inpatient admission	1	3	2	-	2	5	2	15
	Lost consciousness	-	1	-	-	-	-	-	1
	Entrapment	-	-	1	-	-	-	-	1
	Fatality	-	-	-	-	-	-	-	-
	Total	2	5	6	-	4	12	7	36
Rep move't with low muscle loading	>=7 days lost time/alternative duties	1	3	3	6	6	4	4	27
	Hospital inpatient admission	1	-	2	2	1	2	-	8
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	2	3	5	8	7	6	4	35
Other contact with chemical or substance (includes insect and spider bites and stings)	>=7 days lost time/alternative duties	1	4	-	-	2	2	4	13
	Hospital inpatient admission	1	-	1	-	-	-	5	7
	Lost consciousness	-	-	-	-	-	-	2	2
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	2	4	1	-	2	2	11	22

Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2012-13 continued

Mechanism	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Contact with electricity	>=7 days lost time/alternative duties	-	1	2	1	1	-	-	5
	Hospital inpatient admission	1	1	3	3	2	3	-	13
	Lost consciousness	-	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	1	2	6	4	3	3	-	19
Contact with hot objects	>=7 days lost time/alternative duties	-	-	1	2	1	3	2	9
	Hospital inpatient admission	-	1	-	2	1	1	-	5
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	1	1	4	2	4	2	14
Slide or cave-in	>=7 days lost time/alternative duties	1	-	2	-	-	-	-	3
	Hospital inpatient admission	2	-	-	-	-	-	-	2
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	2	1	-	-	-	3
	Fatality	-	-	-	-	-	-	-	-
	Total	3	-	4	1	-	-	-	8
Contact with exposure to heat and cold	>=7 days lost time/alternative duties	1	-	1	-	-	1	-	3
	Hospital inpatient admission	-	1	1	-	-	-	-	2
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	1	1	2	-	-	1	-	5
Exposure to mechanical vibration	>=7 days lost time/alternative duties	-	3	-	-	-	-	-	3
	Hospital inpatient admission	1	-	-	-	-	-	-	1
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	1	3	-	-	-	-	-	4
Exposure to mental stress factors	>=7 days lost time/alternative duties	-	-	-	-	2	-	-	2
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	-	-	2	-	-	2
Long term contact with chemical or substance	>=7 days lost time/alternative duties	-	1	-	-	1	-	-	2
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	1	-	-	1	-	-	2
Contact with, or exposure to, biological factors	>=7 days lost time/alternative duties	-	1	-	-	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	1	-	-	-	-	-	1
Exposure to variations in pressure (other than sound)	>=7 days lost time/alternative duties	-	-	-	-	-	-	1	1
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	1	1
Total	230	506	528	551	537	592	504	3,448	

Figure 188
Notifiable Injury Outcomes by Agency mid 2006-07 to 2012-13

Agency	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Underground environment	>=7 days lost time/alternative duties	74	169	157	125	138	171	105	939
	Hospital inpatient admission	10	26	18	17	21	26	21	139
	Lost consciousness	1	2	-	4	-	1	-	8
	Entrapment	-	-	2	-	-	1	-	3
	Fatality	-	-	-	-	1	-	1	2
	Total		85	197	177	146	160	199	127
Mobile plant	>=7 days lost time/alternative duties	42	94	101	95	63	37	27	459
	Hospital inpatient admission	11	20	31	23	12	24	11	132
	Lost consciousness	-	-	1	1	-	-	1	3
	Entrapment	-	-	-	-	1	-	1	2
	Fatality	-	-	1	-	-	-	-	1
	Total		53	114	134	119	76	61	40
Other materials, substances or objects	>=7 days lost time/alternative duties	13	50	53	83	109	103	47	458
	Hospital inpatient admission	1	8	15	30	24	17	19	114
	Lost consciousness	1	2	1	-	-	-	4	8
	Entrapment	-	-	-	1	-	-	-	1
	Fatality	-	-	-	-	-	-	-	-
	Total		15	60	69	114	133	120	70
Human Agencies	>=7 days lost time/alternative duties	11	18	10	13	16	29	71	168
	Hospital inpatient admission	1	1	2	3	7	4	15	33
	Lost consciousness	-	-	-	-	-	-	1	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		12	19	12	16	23	33	87
Powered equipment, tools and appliances	>=7 days lost time/alternative duties	5	9	11	13	21	23	28	110
	Hospital inpatient admission	3	3	6	16	9	21	10	68
	Lost consciousness	-	-	-	-	-	-	1	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	1	-	-	-	-	1
	Total		8	12	18	29	30	44	39
Machinery and fixed plant - general	>=7 days lost time/alternative duties	3	15	13	15	15	16	29	106
	Hospital inpatient admission	1	3	9	8	8	9	15	53
	Lost consciousness	-	1	1	-	-	-	1	3
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	1	-	-	-	-	1
	Total		4	19	24	23	23	25	45
Unspecified agencies	>=7 days lost time/alternative duties	17	14	19	21	14	22	19	126
	Hospital inpatient admission	-	1	2	4	4	12	3	26
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	1	1
	Total		17	15	21	25	18	34	23
Non-powered equipment	>=7 days lost time/alternative duties	4	8	14	23	18	11	15	93
	Hospital inpatient admission	-	3	5	8	9	4	10	39
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		4	11	19	31	27	15	25
Outdoor environment	>=7 days lost time/alternative duties	10	12	14	10	10	21	10	87
	Hospital inpatient admission	-	4	2	4	3	4	3	20
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	1	-	-	-	-	1
	Fatality	-	-	-	-	-	-	-	-
	Total		10	16	17	14	13	25	13

Notifiable Injury Outcomes by Agency mid 2006-07 to 2012-13 continued

Agency	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Road transport	>=7 days lost time/alternative duties	5	14	6	8	4	7	14	58
	Hospital inpatient admission	2	-	1	3	1	1	1	9
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	7	14	7	11	5	8	15	67
Non-powered hand tools	>=7 days lost time/alternative duties	2	6	5	7	12	7	7	46
	Hospital inpatient admission	-	1	5	2	2	4	3	17
	Lost consciousness	1	-	-	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	3	7	10	9	14	11	10	64
Crushing, Pressing, Rolling Machinery	>=7 days lost time/alternative duties	1	4	3	4	2	2	2	18
	Hospital inpatient admission	3	2	4	2	2	4	1	18
	Lost consciousness	-	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	4	6	8	6	4	6	3	37
Other transport	>=7 days lost time/alternative duties	1	3	5	2	4	5	4	24
	Hospital inpatient admission	-	1	-	-	1	1	-	3
	Lost consciousness	-	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	1	4	5	3	5	6	4	28
Indoor environment	>=7 days lost time/alternative duties	3	5	4	2	3	3	1	21
	Hospital inpatient admission	1	-	1	-	3	1	-	6
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	4	5	5	2	6	4	1	27
Chemicals	>=7 days lost time/alternative duties	1	2	-	-	-	-	-	3
	Hospital inpatient admission	1	1	-	1	-	-	-	3
	Lost consciousness	-	-	-	-	-	-	2	2
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	2	3	-	1	-	-	2	8
Non-physical agencies	>=7 days lost time/alternative duties	1	2	2	1	-	-	-	6
	Hospital inpatient admission	-	1	-	-	-	1	-	2
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	1	3	2	1	-	1	-	8
Biological agencies	>=7 days lost time/alternative duties	-	1	-	-	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	1	-	-	-	-	-	1
Live Animals	>=7 days lost time/alternative duties	-	-	-	-	-	-	-	-
	Hospital inpatient admission	-	-	-	1	-	-	-	1
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	-	1	-	-	-	1
Total	230	506	528	551	537	592	504	3,448	

Figure 189

Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2012-13

Nature of Injury	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Sprain and strains of joints and adjacent muscles (include acute trauma sprains and strains only)	>=7 days lost time/alternative duties	126	281	270	255	271	271	229	1,703
	Hospital inpatient admission	8	19	20	33	26	29	31	166
	Lost consciousness	-	1	-	1	-	-	-	1
	Entrapment	-	-	-	1	1	-	-	2
	Fatality	-	-	-	-	-	-	-	-
	Total		134	301	290	290	298	300	261
Fractures (excluding of vertebral column)	>=7 days lost time/alternative duties	4	22	37	56	44	49	40	252
	Hospital inpatient admission	1	15	25	31	25	32	19	148
	Lost consciousness	-	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	2	-	-	-	-	-
	Total		5	37	65	87	69	81	60
Open wound not involving traumatic amputation	>=7 days lost time/alternative duties	1	19	35	41	36	31	31	194
	Hospital inpatient admission	2	8	18	20	20	19	27	114
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		3	27	53	61	56	50	58
Contusion with intact skin surface and crushing injury, excluding those with fracture	>=7 days lost time/alternative duties	3	26	15	33	29	34	25	165
	Hospital inpatient admission	3	10	9	8	8	14	8	60
	Lost consciousness	-	1	-	-	-	-	-	1
	Entrapment	-	-	1	-	-	1	-	2
	Fatality	-	-	-	-	-	-	-	-
	Total		6	37	25	41	37	49	33
Superficial Injury	>=7 days lost time/alternative duties	22	41	31	15	11	20	18	158
	Hospital inpatient admission	3	7	7	10	6	4	5	42
	Lost consciousness	3	-	2	1	-	-	-	6
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		28	48	40	26	17	24	23
Other and unspecified injuries	>=7 days lost time/alternative duties	18	15	4	3	9	10	5	64
	Hospital inpatient admission	3	3	2	4	5	10	2	29
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		21	18	6	7	14	20	7
Disorders of muscle, tendons and other soft tissues (includes synovitis, tenosynovitis, bursitis)	>=7 days lost time/alternative duties	6	5	3	2	3	17	7	43
	Hospital inpatient admission	4	1	-	-	-	6	2	13
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		10	6	3	2	3	23	9
Amputation	>=7 days lost time/alternative duties	-	1	3	-	5	5	1	15
	Hospital inpatient admission	4	3	6	1	4	8	3	29
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		4	4	9	1	9	13	4
Hernia	>=7 days lost time/alternative duties	2	-	3	3	3	6	5	22
	Hospital inpatient admission	1	2	2	2	2	2	3	14
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		3	2	5	5	5	8	8

Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2012-13 continued

Nature of Injury	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Burns	>=7 days lost time/alternative duties	2	-	5	3	2	3	3	18
	Hospital inpatient admission	1	2	2	4	3	1	-	13
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	3	2	7	7	5	4	3	31
Dislocations	>=7 days lost time/alternative duties	3	4	2	-	6	4	1	20
	Hospital inpatient admission	-	1	-	1	1	-	1	4
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	3	5	2	1	7	4	2	24
Foreign body on external eye, in ear or nose or in respiratory, digestive or reproductive systems (include choking)	>=7 days lost time/alternative duties	2	1	1	-	1	3	3	11
	Hospital inpatient admission	1	1	-	2	-	-	1	5
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	3	2	1	2	1	3	4	16
Intracranial injury, including concussion	>=7 days lost time/alternative duties	-	1	-	2	1	-	2	6
	Hospital inpatient admission	-	-	1	-	-	-	-	1
	Lost consciousness	-	2	-	4	-	1	1	8
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	1	-	-	-	-	1
	Total	-	3	2	6	1	1	3	16
Multiple injuries (only to be used where no principal injury can be identified)	>=7 days lost time/alternative duties	-	1	1	1	2	1	1	7
	Hospital inpatient admission	1	-	2	1	-	-	1	5
	Lost consciousness	-	1	-	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	1	-	2	3
	Total	1	2	3	2	3	1	4	16
Electrocution, electric shock (excl serious electrical burn, lightning, static)	>=7 days lost time/alternative duties	-	1	-	-	1	-	-	2
	Hospital inpatient admission	1	-	3	1	2	2	-	9
	Lost consciousness	-	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	1	1	4	1	3	2	-	12
Injection of fluid	>=7 days lost time/alternative duties	-	-	-	1	-	-	1	2
	Hospital inpatient admission	-	1	1	2	-	1	4	9
	Lost consciousness	-	-	-	-	-	-	1	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	1	1	3	-	1	6	12
Mental disorders	>=7 days lost time/alternative duties	-	-	6	1	1	-	-	8
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	2	-	-	-	-	2
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	8	1	1	-	-	10
Fracture of vertebral column with or without mention of spinal cord lesion	>=7 days lost time/alternative duties	-	2	-	1	-	1	2	6
	Hospital inpatient admission	-	2	-	-	1	1	1	5
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	1	1
	Fatality	-	-	-	-	-	-	-	-
	Total	-	4	-	1	1	2	4	12

Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2012-13 continued

Nature of Injury	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Injection of fluid	>=7 days lost time/alternative duties	-	-	-	1	-	-	1
	Hospital inpatient admission	-	1	1	2	-	1	5
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	1	1	3	-	1	6
Injuries to nerves and spinal cord without evidence of spinal bone injury	>=7 days lost time/alternative duties	-	-	-	2	-	-	2
	Hospital inpatient admission	1	-	1	-	1	-	3
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	-	1	2	1	-	5
Dermatitis and other eczema	>=7 days lost time/alternative duties	1	2	-	-	-	1	4
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	2	-	-	-	1	4
Haemorrhage - Internal	>=7 days lost time/alternative duties	-	-	-	1	-	-	1
	Hospital inpatient admission	-	-	1	2	-	-	3
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	1	3	-	-	4
Diseases of the circulatory system (include heart disease, hypertension, varicose veins)	>=7 days lost time/alternative duties	-	-	-	-	-	-	-
	Hospital inpatient admission	-	-	-	-	-	2	2
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	-	-	-	2	2
Internal injury of chest, abdomen and pelvis	>=7 days lost time/alternative duties	-	-	-	-	-	1	1
	Hospital inpatient admission	-	-	-	-	-	1	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	-	-	-	2	2
Other diseases	>=7 days lost time/alternative duties	-	2	-	-	-	-	2
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	2	-	-	-	-	2
Poisoning and toxic effects of substances	>=7 days lost time/alternative duties	-	1	-	1	-	-	2
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	1	-	1	-	-	2
Asphyxia	>=7 days lost time/alternative duties	-	-	-	-	-	-	-
	Hospital inpatient admission	-	-	-	-	-	1	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	-	-	-	1	1

Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2012-13 continued

Nature of Injury	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2011-12	Total
Effects of weather (incl lightning, static), exposure, air pressure and other external causes, not elsewhere classified (includes bends, drowning, electrocution, electric shock)	>=7 days lost time/alternative duties	1	-	-	-	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	1	-	-	-	-	-	-	1
Infectious and parasitic diseases	>=7 days lost time/alternative duties	-	-	-	-	-	-	-	-
	Hospital inpatient admission	-	-	-	-	1	-	-	1
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	-	-	1	-	-	1
Other diseases of the musculoskeletal system and connective tissue	>=7 days lost time/alternative duties	-	-	-	1	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	-	1	-	-	-	1
Sight - Loss/Impairment	>=7 days lost time/alternative duties	-	1	-	-	-	-	1	2
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	1	-	-	-	-	1	2
Total	230	506	528	551	537	592	504	3,448	

Figure 190

Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2012-13

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Hands and fingers	>=7 days lost time/alternative duties	15	73	61	70	70	72	59	420
	Hospital inpatient admission	6	29	33	38	27	51	40	224
	Lost consciousness	1	-	1	-	-	-	1	3
	Entrapment	-	-	-	-	1	-	-	1
	Fatality	-	-	-	-	-	-	-	-
	Total	22	102	95	108	98	123	100	648
Knee/Knee-cap	>=7 days lost time/alternative duties	36	61	49	45	63	60	44	358
	Hospital inpatient admission	2	8	6	4	10	11	7	48
	Lost consciousness	-	-	-	1	-	-	1	2
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	38	69	55	50	73	71	52	408
Shoulder	>=7 days lost time/alternative duties	16	42	41	32	43	45	43	262
	Hospital inpatient admission	3	7	4	15	6	8	13	56
	Lost consciousness	-	1	-	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	19	50	45	47	49	53	56	319
Back - lower	>=7 days lost time/alternative duties	-	-	22	61	57	60	63	263
	Hospital inpatient admission	-	-	-	7	4	3	2	16
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	22	68	61	63	65	279
Back - unspecified	>=7 days lost time/alternative duties	45	72	65	16	12	16	8	234
	Hospital inpatient admission	-	2	5	1	-	1	1	10
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	45	74	70	17	12	17	9	244
Ankle	>=7 days lost time/alternative duties	15	38	22	29	26	38	19	187
	Hospital inpatient admission	1	-	2	4	5	6	3	21
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	16	38	24	33	31	44	22	208
Multiple locations (more than one part of body)	>=7 days lost time/alternative duties	3	13	18	25	25	22	31	137
	Hospital inpatient admission	-	-	3	10	2	9	6	30
	Lost consciousness	-	1	-	-	-	-	2	3
	Entrapment	-	-	-	-	-	1	1	2
	Fatality	-	-	-	-	-	-	1	1
	Total	3	14	21	35	27	32	41	173
Feet and toes	>=7 days lost time/alternative duties	5	23	22	26	17	19	12	124
	Hospital inpatient admission	4	5	9	4	4	8	1	35
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	1	-	-	-	-	1
	Total	9	28	32	30	21	27	13	160

Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2012-13 continued

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Neck	>=7 days lost time/alternative duties	9	29	23	23	22	16	13	135
	Hospital inpatient admission	-	2	1	7	5	1	1	17
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	9	31	24	30	27	17	14	152
Leg	>=7 days lost time/alternative duties	7	20	19	14	12	12	11	95
	Hospital inpatient admission	3	4	8	6	8	6	5	40
	Lost consciousness	1	-	-	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	11	24	27	20	20	18	16	136
Arm/Forearm	>=7 days lost time/alternative duties	8	8	10	7	15	21	12	81
	Hospital inpatient admission	4	4	7	1	10	4	5	35
	Lost consciousness	-	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	12	12	18	8	25	25	17	117
Wrist	>=7 days lost time/alternative duties	6	5	10	12	14	9	10	66
	Hospital inpatient admission	1	1	1	3	3	3	-	12
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	7	6	11	15	17	12	10	78
Head (other than eye, ear and face)	>=7 days lost time/alternative duties	4	5	6	7	4	1	4	31
	Hospital inpatient admission	1	-	2	-	2	3	2	10
	Lost consciousness	1	3	1	5	-	1	1	12
	Entrapment	-	-	2	-	-	-	-	2
	Fatality	-	-	1	-	-	-	1	2
	Total	6	8	12	12	6	5	8	57
Elbow	>=7 days lost time/alternative duties	2	5	4	4	15	11	6	47
	Hospital inpatient admission	1	1	2	2	1	-	1	8
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	3	6	6	6	16	11	7	55
Face	>=7 days lost time/alternative duties	3	3	4	5	3	7	5	30
	Hospital inpatient admission	1	3	2	4	2	3	7	22
	Lost consciousness	-	-	-	-	-	-	1	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	4	6	6	9	5	10	13	53
Trunk (other than back and excluding internal organ)	>=7 days lost time/alternative duties	7	4	7	4	5	6	2	35
	Hospital inpatient admission	4	2	3	2	2	1	-	14
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	1	-	-	-	-	1
	Fatality	-	-	-	-	-	-	-	-
	Total	11	6	11	6	7	7	2	50

Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2012-13 continued

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Ribs	>=7 days lost time/alternative duties	-	5	6	11	4	8	3	37
	Hospital inpatient admission	-	1	1	1	2	3	-	8
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	6	7	12	6	11	3	45
Abdominal Muscles and Tendons	>=7 days lost time/alternative duties	-	-	1	11	5	9	5	31
	Hospital inpatient admission	-	-	-	3	2	4	4	13
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	1	14	7	13	9	44
General and unspecified locations	>=7 days lost time/alternative duties	2	-	10	1	4	2	1	20
	Hospital inpatient admission	-	3	2	3	1	3	2	14
	Lost consciousness	-	-	-	-	-	-	1	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	1	-	-	1
	Total	2	3	12	4	6	5	4	36
Eye	>=7 days lost time/alternative duties	4	4	5	-	2	5	4	24
	Hospital inpatient admission	2	-	3	1	2	-	2	10
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	6	4	8	1	4	5	6	34
Thigh	>=7 days lost time/alternative duties	1	5	4	2	1	7	3	23
	Hospital inpatient admission	-	-	2	1	5	1	1	10
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	1	5	6	3	6	8	4	33
Hip	>=7 days lost time/alternative duties	2	5	3	7	3	1	2	23
	Hospital inpatient admission	-	1	1	1	-	1	-	4
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	1	-	-	-	1
	Fatality	-	-	-	-	-	-	-	-
	Total	2	6	4	9	3	2	2	28
Pelvis	>=7 days lost time/alternative duties	1	-	1	2	-	2	5	11
	Hospital inpatient admission	-	1	1	2	-	1	3	8
	Lost consciousness	-	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	1	1	3	4	-	3	8	20
Internal organs (located in the trunk)	>=7 days lost time/alternative duties	-	2	1	-	-	-	4	7
	Hospital inpatient admission	-	-	2	1	-	1	5	9
	Lost consciousness	-	-	-	-	-	-	2	2
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	2	3	1	-	1	11	18

Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2012-13 continued

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Shoulder-blade	>=7 days lost time/alternative duties	2	1	2	2	-	1	2	10
	Hospital inpatient admission	1	-	-	-	1	-	-	2
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	3	1	2	2	1	1	2	12
Back - upper	>=7 days lost time/alternative duties	-	-	-	2	2	3	4	11
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	-	2	2	3	4	11
Back - other and multiple	>=7 days lost time/alternative duties	-	-	1	1	1	3	2	8
	Hospital inpatient admission	-	-	-	-	-	1	-	1
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	1	1	1	4	2	9
Skull	>=7 days lost time/alternative duties	-	-	-	-	3	-	-	3
	Hospital inpatient admission	-	1	-	-	2	-	1	4
	Lost consciousness	-	-	-	-	-	-	1	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	1	-	-	-	-	1
	Total	-	1	1	-	5	-	2	9
Ear	>=7 days lost time/alternative duties	-	2	-	1	1	-	1	5
	Hospital inpatient admission	-	-	1	-	-	-	-	1
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	2	1	1	1	-	1	6
Collar-bone	>=7 days lost time/alternative duties	-	1	-	-	-	1	1	3
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	1	-	-	-	1	1	3
Jaw	>=7 days lost time/alternative duties	-	-	-	1	-	-	-	1
	Hospital inpatient admission	-	-	-	1	-	-	-	1
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	-	2	-	-	-	2
Respiratory system	>=7 days lost time/alternative duties	-	-	-	1	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	-	-	1	-	-	-	1
Total		230	506	528	551	537	592	504	3,448

Figure 191
Notifiable Injury Outcomes by Age Group mid 2006-07 to 2012-13

Age Group	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
<20	>=7 days lost time/alternative duties	-	5	4	4	11	5	4	33
	Hospital inpatient admission	-	-	1	2	6	2	2	13
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	5	5	6	17	7	6	46
20-29	>=7 days lost time/alternative duties	24	54	57	69	58	75	64	401
	Hospital inpatient admission	3	18	18	25	17	27	27	135
	Lost consciousness	-	1	2	1	-	-	-	4
	Entrapment	-	-	2	-	-	-	1	3
	Fatality	-	-	-	-	-	-	-	-
	Total	27	73	79	95	75	102	92	543
30-39	>=7 days lost time/alternative duties	39	100	103	113	98	120	77	650
	Hospital inpatient admission	9	13	32	30	31	30	13	158
	Lost consciousness	-	1	1	1	-	1	3	7
	Entrapment	-	-	1	1	-	1	-	3
	Fatality	-	-	1	-	-	-	-	1
	Total	48	114	138	145	129	152	93	819
40-49	>=7 days lost time/alternative duties	60	122	110	114	128	101	94	729
	Hospital inpatient admission	12	18	24	29	27	33	25	168
	Lost consciousness	1	2	1	3	-	-	5	12
	Entrapment	-	-	-	-	1	-	-	1
	Fatality	-	-	1	-	-	-	2	3
	Total	73	142	136	146	156	134	126	913
50-59	>=7 days lost time/alternative duties	65	130	130	104	118	121	107	775
	Hospital inpatient admission	8	23	21	31	23	30	36	172
	Lost consciousness	2	1	-	1	-	-	1	5
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	1	-	1	-	-	2
	Total	75	154	152	136	142	151	144	954
60-69	>=7 days lost time/alternative duties	3	15	13	18	16	34	26	125
	Hospital inpatient admission	2	2	5	4	2	10	6	31
	Lost consciousness	-	-	-	-	-	-	1	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	5	17	18	22	18	44	33	157
>=70	>=7 days lost time/alternative duties	-	-	-	-	-	1	2	3
	Hospital inpatient admission	-	1	-	-	-	1	1	3
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	-	1	-	-	-	2	3	6
Unknown	>=7 days lost time/alternative duties	2	-	-	-	-	-	5	7
	Hospital inpatient admission	-	-	-	1	-	-	2	3
	Lost consciousness	-	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total	2	-	-	1	-	-	7	10
Total	230	506	528	551	537	592	504	3,448	

Figure 192

Notifiable Injury Outcomes by Employment Type mid 2006-07 to 2012-13

Employment Type	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Employee	>=7 days lost time/alternative duties	169	367	356	345	351	392	331	2,311
	Hospital inpatient admission	28	58	74	81	73	90	81	485
	Lost consciousness	2	4	4	5	-	1	7	23
	Entrapment	-	-	2	1	1	-	-	4
	Fatality	-	-	2	-	1	-	1	4
	Total		199	429	438	432	426	483	420
Contractor	>=7 days lost time/alternative duties	24	59	61	77	78	65	45	409
	Hospital inpatient admission	6	17	27	41	32	43	30	196
	Lost consciousness	1	1	-	1	-	-	3	6
	Entrapment	-	-	1	-	-	1	1	3
	Fatality	-	-	1	-	-	-	-	1
	Total		31	77	90	119	110	109	79
Other	>=7 days lost time/alternative duties	-	-	-	-	-	-	3	3
	Hospital inpatient admission	-	-	-	-	1	-	1	2
	Lost consciousness	-	-	-	-	-	-	1	1
	Entrapment	-	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-	-
	Total		-	-	-	-	1	-	5
Total		230	506	528	551	537	592	504	3,448

Appendix A.8 Assessments

Figure 193

Coal Surface Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	104	85	112	157	168	195	188	248	253	194	269	1,973
Audit	12	19	11	69	45	35	50	106	29	9	17	402
Management Plans (Safety)	9	12	10	14	29	11	26	27	58	8	13	217
Investigation	1	5	1	7	4	6	6	3	6	50	37	126
Equipment	-	-	7	4	3	2	4	-	-	-	-	20
Airborne Dust	1	6	3	1	-	-	1	-	-	-	-	12
Incident Follow-up	-	-	-	-	-	-	-	-	-	1	3	4
Resource Recovery (Safety)	-	-	-	-	-	-	-	1	-	-	-	1
Total	127	127	144	252	249	249	275	385	346	262	339	2,755

Figure 194

Coal Underground Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	206	196	298	360	232	266	275	269	248	248	269	2,867
Explosion Suppression	177	143	105	90	91	116	103	159	156	120	147	1,407
Audit	171	88	32	155	99	87	137	99	42	28	38	976
Management Plans (Safety)	30	29	44	82	103	32	28	30	21	22	19	440
Investigation	3	13	6	10	46	58	34	5	10	25	41	251
Airborne Dust	5	41	31	-	2	4	2	1	-	1	-	87
Equipment	-	-	17	5	11	3	7	1	6	1	1	52
Resource Recovery (Safety)	-	-	1	1	-	-	-	-	-	-	2	4
Verification	1	-	-	1	-	-	-	-	1	1	-	4
Incident Follow-up	-	-	-	-	-	-	-	-	-	-	3	3
Closure	-	-	1	-	-	-	-	-	-	-	-	1
Seminar/Workshop	-	-	-	-	1	-	-	-	-	-	-	1
Total	593	510	535	704	585	566	586	564	484	446	520	6,093

Figure 195

Non-Coal Metalliferous Surface Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	51	45	73	45	41	43	43	57	44	61	62	565
Investigation	4	8	13	11	13	6	8	12	10	3	3	91
Audit	1	-	3	12	1	5	8	8	5	2	7	52
Management Plans (Safety)	2	-	3	3	1	1	1	3	4	4	2	24
Verification	5	3	6	2	1	5	2	-	-	-	-	24
Equipment	-	-	-	-	-	-	-	1	2	1	-	4
Resource Recovery (Safety)	-	-	3	-	-	-	-	-	-	-	1	4
Total	63	56	101	73	57	60	62	81	65	71	75	764

Figure 196

Non-Coal Metalliferous Underground Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	74	68	91	89	107	108	99	116	89	106	122	1,069
Investigation	17	10	10	5	30	22	13	27	20	23	20	197
Audit	9	9	3	12	15	26	10	21	19	7	8	139
Management Plans (Safety)	2	3	4	2	2	7	3	7	4	8	4	46
Verification	2	3	2	3	12	6	2	2	2	-	-	34
Equipment	-	-	2	1	4	-	-	9	7	2	3	28
Incident Follow-up	-	-	-	-	-	-	-	-	-	-	11	11
Total	104	93	112	112	170	169	127	182	141	146	168	1,524

Figure 197

Non-Coal Extractives Surface Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	578	475	555	577	655	702	723	712	718	770	817	7,282
Audit	8	57	49	34	44	61	84	148	85	38	34	642
Verification	10	4	1	8	3	1	4	1	2	-	-	34
Management Plans (Safety)	16	9	22	16	10	2	12	45	30	4	5	171
Investigation	10	13	12	22	13	13	10	6	6	13	7	125
Equipment	-	-	6	4	1	2	3	3	2	-	2	23
Airborne Dust	-	-	-	-	-	4	5	-	-	-	-	9
Seminar/Workshop	-	-	-	5	-	2	1	-	-	-	-	8
Closure	-	-	-	2	3	-	-	2	-	-	-	7
Incident Follow-up	-	-	-	-	-	-	-	-	-	-	1	1
Total	622	558	645	668	729	787	842	917	843	825	866	8,302

Figure 198

Non-Coal Extractives Underground Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	5	7	8	7	9	14	5	8	11	5	8	87
Audit	-	-	-	-	2	2	2	1	1	-	-	8
Investigation	-	1	1	1	1	-	-	1	-	1	-	6
Management Plans (Safety)	-	-	-	1	-	-	-	-	-	-	-	1
Total	5	8	9	9	12	16	7	10	12	6	8	102

Figure 199

Non-Coal Other Surface Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	3	1	1	5	26	5	8	12	18	12	13	104
Audit	-	-	-	-	1	1	-	-	1	-	-	3
Investigation	1	-	-	-	-	-	-	-	-	-	-	1
Verification	-	-	-	-	-	-	1	-	-	-	-	1
Total	4	1	1	5	27	6	9	12	19	12	13	109

Figure 200

Non-Coal Other Underground Assessments by Event Subtype 2002-03 to 2012-13

Event Subtype	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Inspection (Mine Safety)	9	19	9	8	1	19	4	9	9	11	4	102
Audit	13	3	-	-	-	1	-	-	-	-	-	17
Equipment	-	-	2	-	-	-	-	2	-	-	-	4
Total	22	22	11	8	1	20	4	11	9	11	4	123

Appendix A.9 Enforcement and Advice Notices

Figure 201

Coal Surface and Underground Enforcement and Advice Notices by Notice Category and Type
2002-03 to 2012-13

Sector/Operation Type	Enforcement Category	Enforcement Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total
Coal Surface	Advice/Improvement	CMRA S 61	12	9	32	25	29							107
		CMHSA S 150					46	96	64	143	303	181	219	1,052
		OHSAS 91				1	5	10	5	25	5	4		55
		WHSAS 191										7	10	17
		Total	12	9	32	26	80	106	69	168	308	192	229	1,231
	Prohibition	CMRA S 63	7	2	18	9	-							36
		CMHSR CI 51					6	11	29	34	15	28	11	134
		OHSAS 93				-	-	2	-	3	4	2		11
		WHSAS 195										3	1	4
		Total	7	2	18	9	6	13	29	37	19	33	12	185
	Investigation	OHSAS 62					1	1	-	1	6	6		15
		OHSAS 70					-	-	-	-	1	-		1
		OHSAS 72					-	-	-	-	-	-		-
		OHSAS 89					-	-	1	-	-	1		2
		WHSAS 155											-	1
		WHSAS 177											-	-
		WHSAS 178											-	-
		WHSAS 198											-	2
		Total	-	-	-	-	1	1	1	1	7	7	3	21
	Total	19	11	50	35	87	120	99	206	334	232	244	1,437	
	Coal Underground	Advice/Improvement	CMRA S 61	125	122	140	92	94						
CMHSA S 150							88	147	190	330	395	320	337	1,807
OHSAS 91						4	27	15	17	24	15	5		107
WHSAS 191												2	8	10
Total			125	122	140	96	209	162	207	354	410	327	345	2,497
Prohibition		CMRA S 63	31	14	27	17	15							104
		CMHSR CI 51					10	49	51	55	45	40	25	275
		OHSAS 93				-	8	7	4	4	3	6		32
		WHSAS 195										2	3	5
		Total	31	14	27	17	33	56	55	59	48	48	28	416
Investigation		OHSAS 62					-	-	2	1	5	2		10
		OHSAS 70					-	-	-	-	-	-		-
		OHSAS 72					-	-	-	-	-	-		-
		OHSAS 89					7	1	6	1	1	4		20
		WHSAS 155											-	-
		WHSAS 177										1	2	3
		WHSAS 178										1	2	3
	WHSAS 198										2	6	8	
Total	-	-	-	-	7	1	8	2	6	10	10	44		
Total	156	136	167	113	249	219	270	415	464	385	383	2,957		
Total	175	147	217	148	336	339	369	621	798	617	627	4,394		

Figure 202

Non-Coal Metalliferous Surface and Underground Enforcement and Advice Notices by Notice Category and Type 2002-03 to 2012-13

Sector/Operation Type	Enforcement Category	Enforcement Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
Metalliferous Surface	Advice/Improvement	MIA S 36B	8	-	9	5	7	20	2					51	
		MHSA S 131							6	21	24	22	49	122	
		OHSA S 91				-	1	1	1	-	2	-		5	
		WHSAS 191											3	3	
		Total	8	-	9	5	8	21	9	21	26	22	52	181	
	Prohibition	MIA S 37	-	-	-	1	-	-	-	-					1
		MIA S 37A	-	-	-	-	-	-	-	-					-
		MHSR CI 158								-	-	-	-	6	6
		OHSA S 93				1	4	2	-	-	2	-			9
		WHSAS 195													-
	Total	-	-	-	2	4	2	-	-	2	-	-	6	16	
	Investigation	OHSA S 62						-	2	-	-	-	-		2
		OHSA S 70						-	1	-	-	-	-		1
		OHSA S 72						-	1	1	-	-	-		2
		OHSA S 89						-	-	-	-	-	-		-
		WHSAS 155													-
		WHSAS 177													-
		WHSAS 178													-
		WHSAS 198													-
	Total	-	-	-	-	-	-	4	1	-	-	-	-	5	
	Explosives	EXPLR CI 99				-	-	-	-	-	-	-	-	-	-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	8	-	9	7	12	27	10	21	28	22	58	202		
Metalliferous Underground	Advice/Improvement	MIA S 36B	5	3	2	8	10	33	7					68	
		MHSA S 131							22	44	34	54	72	226	
		OHSA S 91				2	-	3	1	-	1	-		7	
		WHSAS 191												-	
		Total	5	3	2	10	10	36	30	44	35	54	72	301	
	Prohibition	MIA S 37	-	-	-	-	-	-	-	-					-
		MIA S 37A	-	1	2	2	-	2	-						7
		MHSR CI 158							4	4	1	4	6	19	
		OHSA S 93				1	1	4	2	1	1	1		11	
		WHSAS 195										1	3	4	
	Total	-	1	2	3	1	6	6	5	2	6	9	41		
	Investigation	OHSA S 62					8	-	-	-	1	-			9
		OHSA S 70						-	-	-	-	-			-
		OHSA S 72						-	-	1	-	-			1
		OHSA S 89						-	-	2	-	1			3
		WHSAS 155													-
		WHSAS 177													-
		WHSAS 178													-
	Total	-	-	-	-	8	-	3	-	2	-	1	1	14	
	Explosives	EXPLR CI 99				-	-	-	-	-	-	-	-	-	-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	5	4	4	13	19	42	39	49	39	60	82	356		
	Total		13	4	13	20	31	69	49	70	67	82	140	558	

Figure 203

Non-Coal Extractives Surface and Underground Enforcement and Advice Notices by Notice Category and Type 2002-03 to 2012-13

Sector/Operation Type	Enforcement Category	Enforcement Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
Extractives Surface	Advice/Improvement	MIA S 36B	112	120	154	155	177	277	52					1,047	
		MHSA S 131							297	482	496	514	421	2,210	
		OHSA S 91				11	38	77	70	85	40	13		334	
		WHS A 191										16	27	43	
		Total	112	120	154	166	215	354	419	567	536	543	448	3,634	
	Prohibition	MIA S 37	8	9	11	5	2	2	-					37	
		MIA S 37A	2	3	11	4	1	4	-					25	
		MHSR CI 158								11	25	37	44	26	143
		OHSA S 93				9	43	29	15	24	8	2		130	
		WHS A 195										7	11	18	
	Total	10	12	22	18	46	35	26	49	45	53	37	353		
	Investigation	OHSA S 62									4				4
		OHSA S 70													-
		OHSA S 72													-
		OHSA S 89										1			1
		WHS A 155													-
		WHS A 171												1	1
		WHS A 177													-
		WHS A 178													-
	WHS A 198												1	1	
	Total	-	-	-	-	-	-	-	-	4	1	-	2	7	
	Explosives	EXPLR CI 99					1						1		2
		Total	-	-	-	-	1	-	-	-	-	-	1	-	2
	Total		122	132	176	184	262	389	445	620	582	597	487	3,996	
Extractives Underground	Advice/Improvement	MIA S 36B	-	1	2	-	2	5	-					10	
		MHSA S 131							1	2	5	1	4	13	
		OHSA S 91				1	-	-	-	-	-	-	-	1	
		WHS A 191												-	
		Total	-	1	2	1	2	5	1	2	5	1	4	24	
	Prohibition	MIA S 37	-	-	-	-	-	-	-					-	
		MIA S 37A	-	1	-	-	-	-	-					1	
		MHSR CI 158												-	
		OHSA S 93												-	
		WHS A 195												-	
	Total	-	1	-	-	-	-	-	-	-	-	-	-	1	
	Investigation	OHSA S 62													-
		OHSA S 70													-
		OHSA S 72													-
		OHSA S 89													-
		WHS A 171													-
		WHS A 177													-
		WHS A 178													-
		WHS A 198													-
	Total	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Explosives	EXPLR CI 99													-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total		-	2	2	1	2	5	1	2	5	1	4	25	
	Total		122	134	178	185	264	394	446	622	587	598	491	4,021	

Figure 204

Non-Coal Other Enforcement and Advice Notices by Notice Category and Type 2002-03 to 2012-13

Sector	Enforcement Category	Enforcement Type	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
NonCoal Other Surface	Advice/Improvement	MIA S 36B	1	1	-	1	-	2	-	-	-	-	-	5	
		MHSAS 131	-	-	-	-	-	4	7	13	6	3	-	33	
		OHSAS 91	-	-	-	-	2	5	1	-	-	-	-	8	
		WHSAS 191	-	-	-	-	-	-	-	-	-	-	-	-	
		Total	1	1	-	1	2	7	5	7	13	6	3	46	
	Prohibition	MIA S 37	-	-	-	-	-	-	-	-	-	-	-	-	-
		MIA S 37A	-	-	-	-	-	-	-	-	-	-	-	-	-
		MHSR CI 158	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSAS 93	-	-	-	1	21	6	2	1	-	-	-	-	31
		WHSAS 195	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	1	21	6	2	1	-	-	-	-	31	
	Investigation	OHSAS 62	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSAS 70	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSAS 72	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSAS 89	-	-	-	-	-	1	-	-	-	-	-	-	1
		WHSAS 155	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHSAS 177	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHSAS 178	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHSAS 198	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	1	-	-	-	-	-	-	1	
	Explosives	EXPLR CI 99	-	-	-	-	-	-	-	-	-	-	-	-	-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	Total	1	1	-	2	23	14	7	8	13	6	3	78	
NonCoal Other Underground	Advice/Improvement	MIA S 36B	-	-	-	-	-	-	-	-	-	-	-	-	
		MHSAS 131	-	-	-	-	-	-	-	1	6	2	1	10	
		OHSAS 91	-	-	-	-	-	-	-	-	-	-	-	-	
		WHSAS 191	-	-	-	-	-	-	-	-	-	-	-	-	
		Total	-	-	-	-	-	-	-	1	6	2	1	10	
	Prohibition	MIA S 37	-	-	-	-	-	-	-	-	-	-	-	-	-
		MIA S 37A	-	-	-	-	-	-	-	-	-	-	-	-	-
		MHSR CI 158	-	-	-	-	-	-	-	-	-	1	-	1	
		OHSAS 93	-	-	-	-	-	-	-	1	-	-	-	1	
		WHSAS 195	-	-	-	-	-	-	-	-	-	-	-	-	
	Total	-	-	-	-	-	-	-	1	-	1	-	2		
	Investigation	OHSAS 62	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSAS 70	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSAS 72	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSAS 89	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHSAS 155	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHSAS 177	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHSAS 178	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHSAS 198	-	-	-	-	-	-	-	-	-	-	1	1	
	Total	-	-	-	-	-	-	-	-	-	-	1	1		
	Explosives	EXPLR CI 99	-	-	-	-	-	-	-	-	-	-	-	-	-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	Total	-	-	-	-	-	-	-	2	6	3	2	13	
Total	Total	1	1	-	2	23	14	7	10	19	9	5	91		

Figure 205

Petroleum (Onshore) Enforcement and Advice Notices by Notice Category and Type 2002-03 to 2012-13

Sector	Enforcement Category	Enforcement Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	Total	
Petroleum	Advice/Improvement	OHSAS 91	-	-	-	-	-	-	-	-	-	-	2	1	-	-	3	
		Total	-	-	-	-	-	-	-	-	-	-	-	2	1	-	3	
	Prohibition	OHSAS 93	-	-	-	-	-	-	-	-	-	-	2	1	-	-	3	
		Total	-	-	-	-	-	-	-	-	-	-	2	1	-	-	3	
	Investigation	OHSAS 62	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	5
		Total	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	5
Total	Total	-	-	-	-	-	-	-	-	-	-	-	9	2	-	-	11	

Appendix A.10 Number of Mines by Mining Sector, Mine Type and Mine Operation Type

Figure 206

Number of Mines by Mining Sector, Mine Type and Mine Operation Type 2012-13

Mining Sector	Mine Type	Underground	Surface										Total		
			Open Cut	Borrow Pit	Processing	Dredging	Opal Mining (All Types)	To Be Determined	Exploration	Pilot	Production	Total			
Coal	Coal	Total	30	36	0	18	0	0	0	0	117			171	201
	Total		30	36	0	18	0	0	0	0	117			171	201
Non Coal	Metalliferous	Metals	38	21	9	1	0	0	0	0	319			350	388
		Mineral Sands	0	4	2	2	2	0	3	1				14	14
		Total	38	25	11	3	2	0	3	320				364	402
	Extractives	Construction Materials	1	760	1,560	1	24	0	6	197				2,548	2,549
		Industrial Minerals	1	32	1	0	2	0	0	7				42	43
		Total	2	792	1561	1	26	0	6	204				2590	2592
	Other	Ancillary to Mining	0	0	0	0	0	0	1	6				7	7
		Gemstones or Precious Stones	9	5	3	52	0	26	8	17				111	120
		Opal Claim	1	0	0	0	0	0	0	0				0	1
		Ready-mix/Bitumen	0	0	0	1	0	0	0	0				1	1
		To Be Determined	0	0	0	0	0	0	11	159				170	170
		Treatment Plant	0	0	0	1	0	0	0	0				1	1
		Total	10	5	3	54	0	26	20	182				290	300
		Total	50	822	1575	58	28	26	29	706				3,244	3,234
	Petroleum	Petroleum	Total	0	0	0	4	0	0	0	74	40	152	270	270
Total			0	0	0	4	0	0	0	74	40	152	270	270	
Total		80	858	1575	80	28	26	29	897	40	152	3,685	3,765		

APPENDIX B ADDITIONAL INFORMATION

Appendix B.1 COMET Mine Types, Mining Sectors and Mine Operation Types

Figure 207
COMET Mine Types and Mining Sectors

Mining Sector		Mine Type
Coal		Coal Declared Plant – CPP
Non Coal	Metalliferous	Metals Mineral Sands
	Extractives	Construction Materials Industrial Minerals
	Other	Gemstones or Precious Stones Opal Claim Readymix/Bitumen Ancillary to Mining Waste Mining Treatment Plant To Be Determined
Petroleum (Onshore)		Petroleum

Figure 208
COMET Mine Operation Types

Operation	Operation Type
Underground	Underground
Surface	Open Cut Processing Borrow Pit Dredging Drilling Exploration Exploration Wells Opal Mining (All Types) Production Wells To Be Determined

Note that in this report, both surface and underground activity occurring at an underground operation, is considered as underground activity.

Appendix B.2 COMET Incident Event Subtypes

Figure 209
COMET Incident Event Subtypes

Incident Event Subtype	Description
Dust	dust ignition; sulphide dust explosion; silica exposure
Electrical energy	electrical energy (electric shock); burns caused by electrical heat; outbreak of fire due to electricity; unplanned movement due to electricity
Explosives	explosives general (ejection of flyrock); fault with an explosive; misfire – significant
Gas	gas ignition; asphyxiate gases such as CO ₂ ; poisonous gases such as H ₂ S or CO; explosive gases such as H ₂ ; flammable gases.
Hazardous materials	scolding, injection of hydraulic fluid, flammable / explosive liquids, liquid chemicals, etc
Mechanical equipment fixed	winding systems, crushers, screens, conveyors, guarding, etc.
Mechanical equipment mobile	mobile plant
Self heating	spontaneous combustion involving increase in temperature of coal or other combustible material from the oxidation process
Strata control	fall of roof or sides, slope stability – High wall, Windblast
Structural failure	Infrastructure failure – bins, buildings, etc
Water	inrush of water
Work Environment	slips, trips and falls; falling or flying objects; fall from a height; ventilation; lightning strike; noise; radiation

Appendix B.3 COMET Incident Types and Relevant Legislation

Figure 210

COMET Incident Types under former and current legislation

Mine Category	Legislation	Commenced	Status	Legislation Category	COMET Incident Type
Coal	Coal Mines Regulation Act 1982	CMRA 1982	26/03/1984	Repealed	*CMRA *1984 Dangerous Occurrence O/C *1984 Dangerous Occurrence U/G *Serious Bodily Injury CMRA *Fatality
	Coal Mines (General) Regulation 1999	CMGNR1999	1/09/1999	Repealed	*CMGNR *Notifiable Incidents DCCP CMGNR 1999, CI 83 *Non Spec Acc Ending in Fat/Injury
	Coal Mines (Open Cut) Regulation 1999	CMOCR 1999	1/09/1999	Repealed	*CMOCR *Notifiable Incidents CMOCR 1999, CI 16
	Coal Mines (Underground) Regulation 1999	CMUGR 1999	1/09/1999	Repealed	*CMUGR *Dangerous Occurrences CMUGR 1999, CI 34(1) *Notifiable Incidents CMUGR 1999 CI 34A *Other Notifiable Incidents CMUGR 1999 CI 34B *Incidents CMUGR 1999, CI 34(2) Repealed 4/7/2003
	Coal Mine Health and Safety Act 2002 Coal Mine Health and Safety Regulation 2006	CMHSA 2002 CMHSR 2006	23/12/2006	Current	CMHS CMHSR 2006 CI 55 CMHSR 2006 CI 56(1) Non Spec Acc Ending in Fat/Injury
Non-Coal	Mines Inspection Act 1901 Mines Inspection Regulation 1999 Mines Inspection General Rule 2000	MIA 1901 MIR 1999 MIGR 2000	1/02/1902 30/07/1999 01/09/2000	Repealed	*MIA *1994 Emergency MIA *Minor Accident MIA *Pre Sept 2000 Dangerous Incident MIA *Serious Injury MIA *Dangerous Incident *Non Spec Acc Ending in Fat/Injury
	Mine Health and Safety Act 2004 Mine Health and Safety Regulation 2007	MHSA 2004 MHRSR 2007	1/09/2008	Current	MHS MHRSR 2007 CI 145 MHRSR 2007 CI 146(1) Non Spec Acc Ending in Fat/Injury
Petroleum	Petroleum (Onshore) Schedule 1992	POSch 1992	08/1992	Current	POSch POSch 1992
All	Explosives Regulation 2005	EXPLR 2005	1/09/2005	Current	Explosives Explosives Regulation 2005
	Not Applicable				N/A Complaint High Potential Incident

* indicates repealed legislation

Appendix B.4 Serious Bodily Injury Types and Relevant Legislation

Figure 211

Coal Serious Bodily Injury (SBI) clauses under former and current legislation

Serious Bodily Injury (SBI) – Coal	
Coal Mines (General) Regulation 1999 Clause 85	Coal Mine Health & Safety Regulation 2006 Clauses 55 and 57
a) a fracture of the skull, jaw, spine, pelvis, arm, shoulder-blade, collar-bone, forearm, thigh, leg, knee cap, ankle or ribs	55, 57(a)(ii) any fracture other than a fracture of a finger, toe, hand or foot
(b) a dislocation of the shoulder, elbow, hip, knee or spine	-
(c) an amputation of the hand or foot or a substantial part of the hand or foot	55, 57(a)(i) an amputation of one or more fingers or toes or any other part of a hand or foot
(d) the serious impairment or loss of sight of an eye	55, 57(a)(iii) loss of sight of an eye,
(e) an internal haemorrhage receiving hospital treatment	55, 57(a)(iv) an internal haemorrhage receiving hospital treatment,
(f) burns receiving treatment from a registered medical practitioner	55(c)(v) serious burns to a person
(g) an injury involving injection of hydraulic fluid	55, 57(a)(v) the injection of fluid (including hydraulic fluid, oil, air or water) under pressure
(h) asphyxia.	55, 57(a)(vi) asphyxia

Figure 212

Non-Coal Serious Injury (SI) clauses under former and current legislation

Serious Injury (SI) – Non-Coal	
Mines Inspection Act 1901 Section 47	Mine Health & Safety Regulation 2007 Clause 145
(a) a fracture of the skull, jaw, spine, pelvis, arm, shoulder-blade, collar-bone, forearm, thigh, leg, knee cap, ankle or ribs	145(a)(ii) any fracture other than a fracture of a finger, toe, hand or foot
(b) a dislocation of the shoulder, elbow, hip, knee or spine	-
(c) an amputation of the hand or foot or a substantial part of the hand or foot	145(a)(i) the amputation of one or more fingers or toes or any other part of a hand or foot
(d) the loss of sight of an eye	145(a)(iii) loss of sight of an eye
(e) an internal haemorrhage requiring hospital treatment	145(a)(iv) an internal haemorrhage receiving hospital treatment
(f) burns requiring hospital treatment	145(c)(iv) serious burns to a person
-	145(a)(v) the injection of fluid under pressure
(g) asphyxia	145(a)(vi) asphyxia
(h) any other kind of injury prescribed by the general rules	-

Figure 213

Petroleum (Onshore) Serious Injury (SI) clauses under current legislation

Serious Injury (SI) – Petroleum (Onshore)
Petroleum (Onshore) Schedule 1992
301(1) an injury which requires immediate attention by a medical practitioner

Appendix B.5 Notifiable Injury Outcomes and Relevant Legislation

Figure 214

Notifiable Injury Outcomes under current legislation

Notifiable Outcome	Legislation		
Fatality	CMHSA 2002	S 110(1)(a)	any incident at the coal operation site that has resulted in a person being killed
		S 110 (2)(a)	any incident at the exploration site that has resulted in a person being killed
	MHSA 2004	S 88(1)(a)	any incident at the mine that has resulted in a person being killed
Lost consciousness	CMHSR 2006	CI 55(a)	an injury to a person that results (at any time after the injury) in any of the following: (vii) the loss of consciousness of the person caused by impact of physical force, exposure to hazardous substances, electric shock or lack of oxygen
		CI 57(a)	an injury to a person that results (at any time after the injury) in any of the following: (vii) the loss of consciousness of the person caused by impact of physical force, exposure to hazardous substances, electric shock or lack of oxygen
	MHRSR 2007	CI 145(a)	an injury to a person that results (at any time after the injury) in any of the following: (vii) the loss of consciousness of the person caused by impact of physical force, exposure to hazardous substances, electric shock or lack of oxygen
Hospital inpatient admission	CMHSR 2006	CI 55(b)	an event that results (at any time after the event) in the admission of a person to hospital as an in-patient
		CI 57(b)	an event that results (at any time after the event) in the admission of a person to hospital as an in-patient
	MHRSR 2007	CI 145(b)	an event that results (at any time after the injury) in the admission of a person to hospital as an in-patient
Entrapment	CMHSR 2006	CI 55(c)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (iii) entrapment of a person
	MHRSR 2007	CI 145(c)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (iii) entrapment of a person

Notifiable Injury Outcomes under current legislation continued

Notifiable Outcome	Legislation		
<p>>=7 days lost time and/or alternative duties</p>	<p>CMHSR 2006</p>	<p>CI 56(1)(a)</p>	<p>an injury to a person that results in the person being unfit, for a continuous period of at least 7 days, to attend the person's usual place of work, to perform his or her usual duties at his or her place of work or, in the case of a non-employee, to carry out his or her usual work activities (where that unfitness is supported by a medical certificate)</p>
		<p>CI 56(1)(b)</p>	<p>an illness of a person that is related to work processes and results in the person being unfit, for a continuous period of at least 7 days, to attend the person's usual place of work or to perform his or her usual duties at that place of work (where that unfitness is supported by a medical certificate)</p>
		<p>CI 56(1)(c)</p>	<p>any incidence of violence at a place of work that results in an employee being unfit, for a continuous period of at least 7 days, to attend the employee's usual place of work or to perform his or her usual duties at that place of work (where that unfitness is supported by a medical certificate)</p>
	<p>MHSR 2007</p>	<p>CI 146(1)(a)</p>	<p>an injury to a person that results in the person being unfit, for a continuous period of at least 7 days, to attend the person's usual place of work, to perform his or her usual duties at his or her place of work or, in the case of a non-employee, to carry out his or her usual work activities (where that unfitness is supported by a medical certificate)</p>
		<p>CI 146(1)(b)</p>	<p>an illness of a person that is related to work processes and results in the person being unfit, for a continuous period of at least 7 days, to attend the person's usual place of work or to perform his or her usual duties at that place of work (where that unfitness is supported by a medical certificate)</p>
		<p>CI 146(1)(c)</p>	<p>any incidence of violence at a place of work that results in an employee being unfit, for a continuous period of at least 7 days, to attend the employee's usual place of work or to perform his or her usual duties at that place of work (where that unfitness is supported by a medical certificate)</p>

Appendix B.6 Comparison of Incident and Injury Notification Requirements under Former and Current Legislation

Figure 215

Comparison of Incident and Injury Notification Requirements under Former and Current Coal Legislation

Former Legislation CMRA 1982, CMGR 1999 CMOCR 1999, CMUGR 1999		Current Legislation CMHSA 2002, CMHSR 2006		Comment
CMRA 1982 S86	Fatality	S 110(1)(a)	any incident at the coal operation site that has resulted in a person being killed	Same
		S 110(2)(a)	any incident at the exploration site that has resulted in a person being killed	
CMGR 1999 CI 85	a) a fracture of the skull, jaw, spine, pelvis, arm, shoulder-blade, collar-bone, forearm, thigh, leg, knee cap, ankle or ribs	CI 55(a)(ii) CI 57(a)(ii)	an injury to a person that results (at any time after the injury) in any of the following: (ii) any fracture other than a fracture of a finger, toe, hand or foot,	Similar More inclusive
CMGR 1999 CI 85	(b) a dislocation of the shoulder, elbow, hip, knee or spine	Reported if the dislocation results in a notifiable injury outcome		
CMGR 1999 CI 85	(c) an amputation of the hand or foot or a substantial part of the hand or foot	CI 55(a)(i) CI 57(a)(i)	an injury to a person that results (at any time after the injury) in any of the following: (i) the amputation of one or more fingers or toes or any other part of a hand or foot,	Similar More inclusive
CMGR 1999 CI 85	(d) the serious impairment or loss of sight of an eye	CI 55(a)(iii) CI 57(a)(iii)	an injury to a person that results (at any time after the injury) in any of the following: (iii) loss of sight of an eye,	Same
CMGR 1999 CI 85	(e) an internal haemorrhage receiving hospital treatment	CI 55(a)(iv) CI 57(a)(iv)	an injury to a person that results (at any time after the injury) in any of the following: (iv) an internal haemorrhage receiving hospital treatment,	Same
CMGR 1999 CI 85	(f) burns receiving treatment from a registered medical practitioner	CI 55(c)(v)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (v) serious burns to a person	Same

Comparison of Incident and Injury Notification Requirements under Former and Current Coal Legislation continued

Former Legislation CMRA 1982, CMGR 1999 CMOCR 1999, CMUGR 1999		Current Legislation CMHSA 2002, CMHSR 2006		Comment
CMGR 1999 CI 85	(g) an injury involving injection of hydraulic fluid	CI 55(a)(v) CI 57(a)(v)	an injury to a person that results (at any time after the injury) in any of the following: (v) the injection of fluid (including hydraulic fluid, oil, air or water) under pressure,	Similar More inclusive
CMGR 1999 CI 85	(h) asphyxia.	CI 55(a)(vi) CI 57(a)(vi)	an injury to a person that results (at any time after the injury) in any of the following: (vi) asphyxia,	Same
		CI 55(a)(vii) CI 57(a)(vii)	an injury to a person that results (at any time after the injury) in any of the following: (vii) the loss of consciousness of the person caused by impact of physical force, exposure to hazardous substances, electric shock or lack of oxygen	New
		CI 55(b) CI 57(b)	an event that results (at any time after the event) in the admission of a person to hospital as an in-patient	New
CMUGR 1999 CI34(1)	Entombment person 34(1)(j) The entombment of a person	CI 55 (c)(iii)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (iii) entrapment of a person	Similar More inclusive
		CI 56(1)(a)	an injury to a person that results in the person being unfit, for a continuous period of at least 7 days, to attend the person's usual place of work, to perform his or her usual duties at his or her place of work or, in the case of a non-employee, to carry out his or her usual work activities (where that unfitness is supported by a medical certificate)	New

Comparison of Incident and Injury Notification Requirements under Former and Current Coal Legislation continued

Former Legislation CMRA 1982, CMGR 1999 CMOCR 1999, CMUGR 1999		Current Legislation CMHSA 2002, CMHSR 2006		Comment
		CI 56(1)(b)	an illness of a person that is related to work processes and results in the person being unfit, for a continuous period of at least 7 days, to attend the person's usual place of work or to perform his or her usual duties at that place of work (where that unfitness is supported by a medical certificate)	New
		CI 56(1)(c)	any incidence of violence at a place of work that results in an employee being unfit, for a continuous period of at least 7 days, to attend the employee's usual place of work or to perform his or her usual duties at that place of work (where that unfitness is supported by a medical certificate)	New
CMUGR 1999 CI 34(1)	Damage failure haulage 34(1)(f) Damage to or a failure in haulage equipment used to transport persons in a shaft or drift that may endanger any person, interfere with the normal working of a mine or disrupt access to a second means of egress from a mine			
CMOCR 1999 CI 16 CMUGR 1999 CI 34A CMGNR 1999 CI 83	Failure structure 16(1)(h) A failure or collapse of any structure such as to endanger persons or property Failure structure 34A(1)(c) A failure or collapse of any structure such as to endanger persons or property Failure structure 83(1)(d) A failure or collapse of any structure such as to endanger persons or property	CI 55(c)(i)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (i) damage to any plant, building or structure,	Similar

Comparison of Incident and Injury Notification Requirements under Former and Current Coal Legislation continued

Former Legislation CMRA 1982, CMGR 1999 CMOCR 1999, CMUGR 1999		Current Legislation CMHSA 2002, CMHSR 2006		Comment
		CI 55(c)(ii)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (ii) imminent risk of explosion or fire,	New
CMOCR 1999, CI 16	Failure high-lowwall etc 16(1)(g) A fall, slumping, loss of strength, failure or collapse of the high wall, low wall or spoil area such as to endanger persons or property	CI 55(c)(iv)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (iv) failure of strata, or of slope stability control measures,	Similar
CMOCR 1999 CI 16 CMUGR 1999 CI 34A CMGNR 1999 CI 83	Unplanned movement 16(1)(f) An unplanned movement of a vehicle, machine or any item of plant or equipment such as to endanger persons or cause serious property damage Unplanned movement 34A(1)(b) An unplanned movement of a vehicle, machine or any item of plant or equipment such as to endanger persons or cause serious property damage Unplanned movement 83(1)(c) An unplanned movement of a vehicle, machine or any item of plant or equipment such as to endanger persons or cause serious property damage	CI 55(c)(vi)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (vi) the unintended activation or movement of vehicles or machinery	Similar Less inclusive
		CI 57(c)	the unintended activation or movement of machinery (other than a vehicle)	New

Comparison of Incident and Injury Notification Requirements under Former and Current Coal Legislation continued

Former Legislation CMRA 1982, CMGR 1999 CMOCR 1999, CMUGR 1999		Current Legislation CMHSA 2002, CMHSR 2006		Comment
CMOCR 1999 CI 16 CMUGR 1999 CI 34A CMGNR 1999 CI 83	<p>Elect shock 16(1)(d) The receiving by a person of an electric shock from a source, or the suffering by a person of burns received from an electric circuit, that is above extra low voltage (as defined in Australian Standard 3000 (SAA Wiring rules))</p> <p>Elect shock 34A(1)(a) An electric shock to a person from a source that is above extra low voltage (as defined in AS/NZS 3000:2000, Electrical Installations (known as the Australian/New Zealand Wiring Rules))</p> <p>Elect shock 83(1)(b) The receiving by a person of an electric shock from a source, or the suffering by a person of burns received from an electric circuit, that is above extra low voltage (as defined in Australian Standard 3000 (SAA Wiring Rules))</p>	CI 55(d)(i)	any incident involving electricity: (i) as a consequence of which a person suffers injury, receives treatment from a health care professional or is unable (on medical advice) to attend work for any period of time,	Similar
		CI 55(d)(ii)	any incident involving electricity: (ii) where a vehicle, machinery or other plant makes contact with an energised high voltage source involving a risk to any person	New
CMUGR 1999 CI 34(1)	Ignition gas dust (34)(1)(a) An unplanned ignition of gas or dust underground	CI 55(e)	an uncontrolled explosion or fire or a misfire of explosives in the underground parts of a coal operation	Different More inclusive
CMUGR 1999 CI 34(1)	Ignition explosives 34(1)(h) An unplanned ignition or explosion of a blasting agent or an explosive underground			

Comparison of Incident and Injury Notification Requirements under Former and Current Coal Legislation continued

Former Legislation CMRA 1982, CMGR 1999 CMOCR 1999, CMUGR 1999		Current Legislation CMHSA 2002, CMHSR 2006		Comment
CMOCR 1999 CI 16 CMUGR 1999 CI 34(1) CMGNR 1999 CI 83	<p>Outbreak fire 16(1)(a) An outbreak of fire endangering persons or causing serious property damage</p> <p>Outbreak fire self heat 34(1)(b) an outbreak of fire or spontaneous heating of coal or other material underground or initial spontaneous heating in a coal stock pile on the surface</p> <p>Outbreak fire 83(1)(a) An outbreak or fire endangering persons or causing serious property damage</p>	CI 55(e)	an uncontrolled explosion or fire or a misfire of explosives in the underground parts of a coal operation	Different More inclusive
CMUGR 1999 CI 34(1)	<p>Outburst 34(1)(e) A coal or rock outburst that endangers a person or disrupts mine ventilation</p>	CI 55(f)	an uncontrolled outburst of gas	Similar Less inclusive
CMOCR 1999, CI 16 CMUGR 1999 CI 34(1)	<p>Inrush 16(1)(c) An abnormal inrush of water, or material that flows when wet, from any source such as to endanger persons or property</p> <p>Inrush 34(1)(d) An inrush within the meaning of Division 8</p>	CI 55(g)	an abnormal inrush of fluid	Similar More inclusive
		CI 55(h)	a collision on the surface part of the coal operation involving a vehicle or mobile plant with a gross weight of more than 2 tonnes	New
		CI 55(i)	the loss of control of a heavy vehicle or other large plant on the surface part of the coal operation	New
		CI 55(j)	the overturning of a heavy vehicle or other large plant on the surface part of the coal operation	New
CMOCR 1999, CI 16	<p>Flyrock 16(1)(j) The ejection of flyrock outside the boundary of a mine's lease area during shottfiring such as to endanger persons or property</p>	CI 55(k)	ejection of fly rock so that it falls outside a blast exclusion zone (that is an area from which persons are excluded during blasting) or near people	Similar More inclusive
		CI 55(l)	failure of any part of a powered winding system or damage to a shaft or shaft equipment	New

Comparison of Incident and Injury Notification Requirements under Former and Current Coal Legislation continued

Former Legislation CMRA 1982, CMGR 1999 CMOCR 1999, CMUGR 1999		Current Legislation CMHSA 2002, CMHSR 2006		Comment
		CI 56(1)(d)	a spill or incident resulting in exposure or potential exposure of a person to a notifiable carcinogenic substance or a prohibited carcinogenic substance	New
		CI 56(1)(e)	contact of a person with an energised electrical item that is supplied at above extra low voltage	New
CMOCR 1999, CI 16 CMUGR 1999 CI 34(1)	Self heat 16(1)(b) Initial self-heating of the coal strata or overburden in a part of a mine Outbreak fire self heat 34(1)(b) An outbreak of fire or spontaneous heating of coal or other material	CI 56(1)(f)	initial self-heating of coal or other material, or any heating of coal in the underground parts of a coal operation that results in withdrawal of people	Similar
CMUGR 1999 CI 34(1)	Failure ventilation 34(1)(c) Failure of ventilation that results in an accumulation of gas that requires the withdrawal of persons	CI 56(1)(g)	an accumulation of gas that requires the withdrawal of people or results in the tripping off of electric power	Different More inclusive
CMUGR 1999 CI 34B	Fall roof sides 34B(1)(b) An unplanned fall of roof or sides of a mine that impedes passage or disrupts mine ventilation	CI 56(1)(h)	an unplanned fall of a roof or sides that impedes passage or disrupts mine ventilation or extends outside the bolted zone	Similar More inclusive
CMUGR 1999 CI 34B	Windblast 34B(1)(c) A windblast that results in injuries requiring first-aid treatment	CI 56(1)(i)	A windblast that results in injuries requiring treatment by a medical practitioner	Similar Less inclusive
CMUGR 1999 CI 34B	Entrapment breaker line 34B(1)(e) Entrapment of a breaker line support by a fall of roof such that it is unable to be recovered under its own tractive effort	CI 56(1)(j)	the burial of machinery such that it cannot be recovered under its own tractive effort	Similar More inclusive
CMUGR 1999 CI 34B	Entrapment cont miner 34B(1)(d) Entrapment of a continuous miner by a fall of roof or sides such that it is unable to be recovered under its own tractive effort			
CMUGR 1999 CI 34B	Creep 34B(1)(f) A creep, progressive pillar collapse or significant deviation from predicted surface subsidence	CI 56(1)(k)	A creep or progressive pillar collapse	Similar Less inclusive

Comparison of Incident and Injury Notification Requirements under Former and Current Coal Legislation continued

Former Legislation CMRA 1982, CMGR 1999 CMOCR 1999, CMUGR 1999		Current Legislation CMHSA 2002, CMHSR 2006		Comment
CMUGR 1999 CI 34B	Arcing on electric cable 34B(1)(a) An event that occurs in a hazardous zone and leaves visible evidence on an electric cable of arcing having occurred	CI 56(1)(l)	an event that occurs in a hazardous zone in the underground parts of the coal operation and from which an electric arc is observed or that leaves visible evidence on an electric cable of arcing having occurred	Similar More inclusive
CMUGR 1999 CI 34B	Failure explosion protection 34B(1)(g) The inservice failure of the explosion protection characteristic of explosion protected apparatus located in a hazardous zone	CI 56(1)(m)	the in-service failure of the explosion-protection characteristics of explosion-protected plant	Similar More inclusive
CMOCR 1999, CI 16	Injury from Blasting 16(1)(e) The suffering by a person of bodily injury occasioned by an explosion or discharge of blasting material	CI 56(1)(n)	an uncontrolled explosion or fire or a misfire of explosives in the surface parts of a coal operation	Different More inclusive
		CI 56(1)(o)	an escape of fluid under pressure that could place any person at risk	New
		CI 56(1)(p)	an unintended activation or movement of vehicles or machinery that does not present an immediate threat to life or of permanent incapacitating injury	New
CMUGR 1999 CI 34(1)	Pillar collapse 34(1)(i) A sudden pillar collapse	CI 56(1)(q)	A sudden pillar collapse	Same
CMOCR 1999, CI 16	Insurge gas 16(1)(i) An insurge of noxious or flammable gas from old workings			Deleted

Figure 216

Comparison of Incident and Injury Notification Requirements under Former and Current Non-Coal Legislation

Former Legislation MIA 1901, MIGR 2000		Current Legislation MHSA 2004, MHSR 2007		Comment
MIA S47	Fatality	S 88(1)(a)	any incident at the mine that has resulted in a person being killed	Same
MIA S47	(a) a fracture of the skull, jaw, spine, pelvis, arm, shoulder-blade, collar-bone, forearm, thigh, leg, knee cap, ankle or ribs	CI 145(a)(ii)	an injury to a person that results (at any time after the injury) in any of the following: (ii) any fracture other than a fracture of a finger, toe, hand or foot,	Similar More inclusive
MIA S47	(b) a dislocation of the shoulder, elbow, hip, knee or spine	Reported if the dislocation results in a notifiable injury outcome		
MIA S47	(c) an amputation of the hand or foot or a substantial part of the hand or foot	CI 145(a)(i)	an injury to a person that results (at any time after the injury) in any of the following: (i) the amputation of one or more fingers or toes or <i>any other part</i> of a hand or foot,	Similar More inclusive
MIA S47	(d) the loss of sight of an eye	CI 145(a)(iii)	an injury to a person that results (at any time after the injury) in any of the following: (iii) loss of sight of an eye,	Same
MIA S47	(e) an internal haemorrhage requiring hospital treatment	CI 145(a)(iv)	an injury to a person that results (at any time after the injury) in any of the following: (iv) an internal haemorrhage receiving hospital treatment,	Same
MIA S47	(f) burns requiring hospital treatment	CI 145(c)(iv)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (iv) serious burns to a person	Same
		CI 145(a)(v)	an injury to a person that results (at any time after the injury) in any of the following: (v) the injection of fluid under pressure	New
MIA S47	(g) asphyxia	CI 145(a)(vi)	an injury to a person that results (at any time after the injury) in any of the following: (vi) asphyxia,	Same

Comparison of Incident and Injury Notification Requirements under Former and Current Non-Coal Legislation continued

Former Legislation MIA 1901, MIGR 2000	Current Legislation MHSA 2004, MHSR 2007		Comment
	CI 145 (a)(vii)	an injury to a person that results (at any time after the injury) in any of the following: (vii) the loss of consciousness of the person caused by impact of physical force, exposure to hazardous substances, electric shock or lack of oxygen	New
	CI 145 (b)	an event that results (at any time after the injury) in the admission of a person to hospital as an in-patient	New
	CI 145 (c)(iii)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (iii) entrapment of a person	New
	CI 146 (1) (a)	an injury to a person that results in the person being unfit, for a continuous period of at least 7 days, to attend the person's usual place of work, to perform his or her usual duties at his or her place of work or, in the case of a non-employee, to carry out his or her usual work activities (where that unfitness is supported by a medical certificate)	New
	CI 146 (1) (b)	an illness of a person that is related to work processes and results in the person being unfit, for a continuous period of at least 7 days, to attend the person's usual place of work or to perform his or her usual duties at that place of work (where that unfitness is supported by a medical certificate)	New

Comparison of Incident and Injury Notification Requirements under Former and Current Non-Coal Legislation continued

Former Legislation MIA 1901, MIGR 2000		Current Legislation MHSA 2004, MHSR 2007		Comment
		CI 146 (1) (c)	any incidence of violence at a place of work that results in an employee being unfit, for a continuous period of at least 7 days, to attend the employee's usual place of work or to perform his or her usual duties at that place of work (where that unfitness is supported by a medical certificate)	New
MIGR 2000 Dangerous Incident	Structural Failure An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine	CI 145(c)(i)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (i) damage to any plant, equipment, building or structure,	Different More inclusive
		CI 145(c)(ii)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (ii) imminent risk of explosion or fire	New
MIGR 2000 Dangerous Incident CI 68(5)(d)	Unplanned movement due to electricity CI 68(5)(d) any unintended movement of electrically powered or controlled equipment (including any failure of that equipment to stop) that endangered persons or caused serious property damage	CI 145 (c)(v)	any of the following events or circumstances that present an immediate threat to life or of permanent incapacitating injury: (v) the unintended activation or movement of vehicles or machinery	Different More inclusive
MIGR 2000 Dangerous Incident CI 68(5)(b)	Burns caused by electrical heat CI 68(5)(b) any burns requiring first aid treatment, where the heat source that caused the burn was electrical equipment	CI 145(d)(i)	any incident involving electricity: (i) as a consequence of which a person suffers injury, receives medical treatment or is unable (on medical advice) to attend work for any period of time	Similar More inclusive

Comparison of Incident and Injury Notification Requirements under Former and Current Non-Coal Legislation continued

Former Legislation MIA 1901, MIGR 2000		Current Legislation MHSA 2004, MHSR 2007		Comment
		CI 145(d)(ii)	any incident involving electricity: (ii) where a vehicle, machinery or other plant makes contact with an energised high voltage source involving a risk to any person)	New
MIGR 2000 Dangerous Incident CI 68(5)(a)	Electric shock CI 68(5)(a) any electric shock sustained by any person from an electricity source above extra low voltage	CI 145(d)(iii)	any incident involving electricity: (iii) where a person receives an electric shock from a source operating above extra low voltage (as defined by AS/NZS 3000)	Same
MIGR 2000 Dangerous Incident CI 68(5)(c)	Outbreak of fire due to electrical equipment CI 68(5)(c) any fire caused by the malfunction of electrical equipment			
MIGR 2000 Dangerous Incident	Outbreak of Fire U/G An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine			
MIGR 2000 Dangerous Incident	Fixed Equipment – fire (surface) An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine	CI 145(e)	an uncontrolled explosion or fire	Different More inclusive
MIGR 2000 Dangerous Incident	Fixed Equipment – fire (underground) An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine			

Comparison of Incident and Injury Notification Requirements under Former and Current Non-Coal Legislation continued

Former Legislation MIA 1901, MIGR 2000		Current Legislation MHSA 2004, MHSR 2007		Comment
MIGR 2000 Dangerous Incident	Mobile Plant – fires on equipment (surface) An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine			
MIGR 2000 Dangerous Incident	Mobile Plant – fires on equipment (underground) An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine	CI 145(e)	an uncontrolled explosion or fire	Different More inclusive
MIGR 2000 Dangerous Incident	Ventilation U/G – dust (including sulphide) An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine			
		CI 145(f)	an escape of fluid under high pressure that endangers a person	New
		CI 145(g)	an uncontrolled issue of gas or fluids	New
MIGR 2000 Dangerous Incident CI 25(d)	Inrush of Water, Material or Gas CI 25(d) a dangerous incident involving an inrush of water, or material that flows when wet, from any source	CI 145(h)	an abnormal inrush of fluid materials	Same
MIGR 2000 Dangerous Incident	Mobile Plant – general transport/traffic An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine	CI 145 (i)	a collision involving a vehicle or other machinery that results in substantial damage, or impedes safe operations, at the mine	Different More inclusive
		CI 145 (j)	the loss of control of a vehicle or other machinery at the mine	
		CI 145 (k)	the overturning of a vehicle or other machinery at the mine	

Comparison of Incident and Injury Notification Requirements under Former and Current Non-Coal Legislation continued

Former Legislation MIA 1901, MIGR 2000		Current Legislation MHSA 2004, MHSR 2007		Comment
MIGR 2000 Dangerous Incident CI 64(2)	Ejection of Flyrock CI 64(2) If rock from any blasting is projected outside the boundaries of a mining area, the general manager of the mine must notify an inspector or a mine safety officer as soon as practicable but, in any event, no later than 24 hours after the blasting	CI 145(l)	ejection of fly rock so that it falls outside a blast exclusion zone (being the area below, at or above ground level from which all unauthorised persons are excluded during blasting)	Similar More inclusive
MIGR 2000 Dangerous Incident	Winding systems An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine	CI 145(m)	failure of any part of a powered winding system or damage to a shaft or shaft equipment	Different More inclusive
MIGR 2000 Dangerous Incident	Rock falls – (major) Ground Movement An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine	CI 145(n)	an unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present	Different More inclusive
MIGR 2000 Dangerous Incident	Airblast An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine	CI 145(o)	an airblast (that is, the significant overpressure and air velocities forced out of a large void from collapse of mass of rock or materials)	Different More inclusive
		CI 145 (p)	the burial of machinery such that it cannot be recovered under its own tractive effort	New
MIGR 2000 Dangerous Incident	Hazardous chemicals An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine	CI 146(1)(d)	a spill or incident resulting in exposure or potential exposure of a person to a notifiable carcinogenic substance or a prohibited carcinogenic substance	Different More inclusive
MIGR 2000 Dangerous Incident CI 65(1)	Misfire – significant CI 65(1) The general manager of a mine at which blasting is being carried out must notify an inspector or a mine safety officer of any significant misfire (cannot be refired without a significant risk to mine personnel or the public) as soon as practicable but, in any event, no later than 24 hours after it occurs	CI 146(1)(e)	a significant misfire of explosives	Same

Comparison of Incident and Injury Notification Requirements under Former and Current Non-Coal Legislation continued

Former Legislation MIA 1901, MIGR 2000		Current Legislation MHSA 2004, MHSR 2007		Comment
MIGR 2000 Dangerous Incident CI 66(2)	<p>Fault with an explosive CI 66(2) 66(1) A person at a mine who discovers or suspects a problem or fault in an explosive product or accessory must notify a person acting in a supervisory capacity at the mine of the problem or fault as soon as practicable 66(2) The person so notified must, in turn, notify the general manager of the mine who must report the matter to an inspector or mine safety officer within 24 hours after being notified of the problem or fault</p>	CI 146(1)(f)	a problem or fault in an explosive product or accessory	Same
MIGR 2000 Dangerous Incident	<p>Explosives – NEC An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine</p>	Reported under the Explosives Regulation 2005		
MIGR 2000 Dangerous Incident	<p>Slope stability An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine</p>	CI 146(1)(g)	a progressive stope or progressive pillar collapse	Different More inclusive
MIGR 2000 Dangerous Incident	<p>Guarding – conveyors</p> <p>Isolation of energy</p> <p>Mobile Plant – tyres, rims</p> <p>Ventilation U/G – fumes</p> <p>Working at height</p> <p>An incident at a mine that has the potential to cause loss of life to a number of persons at the mine or in the vicinity of the mine</p>	Reported if the incident results in an injury where the nature of injury and/or injury outcome is notifiable		

Appendix B.7 COMET Assessment Event Subtypes

Figure 217
COMET Assessment Event Subtypes

Assessment Event Subtype	Description
Airborne Dust	Evaluation of the implementation of an operation's safety systems and procedures relevant to the control and analysis of airborne dust at the mine.
Audit	Formal evaluation of site activities, plant and equipment and management systems in relation to compliance with legislation, standards and guidelines.
Closure	Evaluation of the implementation of an operation's safety systems and procedures relevant to the closure or abandonment of a mine or part of a mine.
Equipment	Formal or informal inspection of equipment or plant in relation to compliance with legislation, standards and guidelines.
Explosion Suppression	Sampling inspections, analysis and reports of roadway dust conditions.
Inspection (Mine Safety)	Formal or informal inspection of site activities, plant and equipment and management systems relevant to the continued safe operation of a mine or health, safety and welfare of persons who work at the mine.
Investigation	Investigation of a mine incident requiring the collection and analysis of information obtained from premises off-site or not at the mine.
Management Plans (Safety)	Desk top review of Mine Safety Management Plans in relation to compliance with legislation, standards and guidelines.
Resource Recovery (Safety)	Evaluation of information on planning, operation and geology in relation to the safe operation of a mine or health, safety and welfare of persons who work at the mine.
Seminar/Workshop	Review of information presented on safety matters relating to the mining industry.
Verification	Verification of the implementation of an operation's Mine Safety Management Plan safety systems and procedures

NB Use of Assessment Event Subtypes may change over time due to changes in recording approach.

Appendix B.8 Enforcement and Advice Notice Categories and Relevant Legislation

Figure 218
Enforcement and Advice Notice Categories and Types

Enforcement and Advice Notice Category	Legislation and Enforcement and Advice Notice Type		
Advice	*CMRA 1982	S 61	Inspector or mine safety officer to inform mine management of exercise of certain powers
	CMHSA 2002	S 150	Bringing of concerns regarding health, safety or welfare to the attention of operators
	*MIA	S 36B	Inspector or mine safety officer to inform mine management of certain matters
	MHSA 2004	S 131	Bringing of concerns regarding health, safety or welfare to the attention of operators
Improvement	*OHS 2000	S 91	Issue of improvement notices
	WHS 2011	S 191	Issue of improvement notices
Prohibition	*CMRA 1982	S 63	Inspector may impose prohibitions or restrictions or direct evacuation or closure of mine
	CMHSR 2006	CI 51	Chief Inspector may impose prohibitions or restrictions or direct evacuation or closure of coal operation
	*MIA	S 37	Notice to be given of cause of danger
		S 37A	Order to withdraw persons from mine
	MHSR 2007	CI 158	Chief Inspector may impose prohibitions or restrictions or direct evacuation or closure of mine
*OHS 2000	S 93	Issue of prohibition notices	
WHS 2011	S 195	Power to issue prohibition notices	
Investigation	*OHS 2000	S 62	Power of Inspectors to obtain information, documents and evidence
		S 70	Notice of taking or dismantling plant, substances or other things
		S 72	Receipt for things taken
		S 89	Investigation notice to stop plant or prevent disturbance of premises to allow investigation
	WHS 2011	S 155	Powers of regulator to obtain information
		S 171	Power to require production of documents and answers to questions
		S 177	Powers supporting seizure
		S 178	Receipt for seized things
		S 179	Forfeiture of seized things
		S 183	Inspector to give notice of damage
S 198	Issue of a non-disturbance notice		
Explosives	EXPLR 2005	CI 99	Certain powers of inspectors and police officers

**indicates repealed legislation*

Appendix B.9 Sources of Data

Figure 219
Sources of NSW Data

Data	Mining Sector	Source
Employees Hours Worked	Coal	<ul style="list-style-type: none"> Coal Services Pty Ltd to 2006-07 NSW Coal Industry Profiles to 2006-07 NSW Trade & Investment Quarterly Workplace Injury Reports – Coal Mine Health and Safety Regulation 2006 CI 206 from 2007-08
	Metalliferous Extractives	<ul style="list-style-type: none"> Minerals Council of Australia Safety Performance Reports to 2004-05 NSW Trade & Investment Mineral Royalty Returns to 2006-07 NSW Trade & Investment Quarterly Workplace Injury Reports – Mine Health and Safety Regulation 2007 CI 155 from second quarter 2008-09
LTIs	Coal	<ul style="list-style-type: none"> Coal Services Pty Ltd to 2006-07 NSW Trade & Investment Quarterly Workplace Injury Reports – Coal Mine Health and Safety Regulation 2006 CI 206 from 2007-08
	Metalliferous Extractives	<ul style="list-style-type: none"> Minerals Council of Australia Safety Performance Reports to 2004-05 NSW Trade & Investment Monthly Injury (Non Serious) Forms - Mines Inspection General Rule 2000 CI 26 NSW Trade & Investment Incident and Injury Notifications to first quarter 2008-09 NSW Trade & Investment Quarterly Workplace Injury Reports – Mine Health and Safety Regulation 2007 CI 155 from second quarter 2008-09
MTIs RDIs	Coal	<ul style="list-style-type: none"> NSW Trade & Investment Quarterly Workplace Injury Reports – Coal Mine Health and Safety Regulation 2006 CI 206 from 2007-08
	Metalliferous Extractives	<ul style="list-style-type: none"> NSW Trade & Investment Quarterly Workplace Injury Reports - Mine Health and Safety Regulation 2007 CI 155 from second quarter 2008-09
Incidents Fatalities Serious Bodily Injuries Notifiable Injury Outcomes	All	<ul style="list-style-type: none"> NSW Trade & Investment Incident and Injury Notifications
Assessments Enforcement and Advice Notices	All	<ul style="list-style-type: none"> NSW Trade & Investment COMET Mine Safety database

Figure 220
Sources of Other National and International Data

Data	Source
Queensland, Australia	<ul style="list-style-type: none"> • Queensland Department of Natural Resources and Mines (data for 2010-11 to 2012-13) • Queensland Mines and Quarries Safety Performance and Health Reports 2000-01 to 2009-10 (data to 2008-09)
Western Australia	<ul style="list-style-type: none"> • Western Australia Department of Mines and Petroleum (data for 2010-11 to 2012-13) • Safety Performance in the Western Australian Mineral Industry Accident and Injury Statistics 2006-07 to 2009-10 <p><i>Note:</i></p> <ul style="list-style-type: none"> - Coal is surface only - Metalliferous excludes construction materials - Extractives includes construction materials - Exploration is not included <ul style="list-style-type: none"> • Safety Performance Report of the Australian Minerals Industry – Minerals Council of Australia 2007-08 (data to 2005-06)
United States of America	<ul style="list-style-type: none"> • USA Mine Safety and Health Administration Mine Injury and Worktime, Quarterly Reports from 2006 <p><i>Note:</i></p> <ul style="list-style-type: none"> - Metalliferous includes metallic minerals - Extractives includes non-metallic minerals, stone, sand & gravel <ul style="list-style-type: none"> • Safety Performance Report of the Australian Minerals Industry – Minerals Council of Australia 2007-08 (data to 2005) <p><i>Note:</i></p> <ul style="list-style-type: none"> - Metalliferous includes metals - Extractives includes sand & gravel

Appendix B.10 Links to Other Sources of Information

Note: These references to sources of other mining industry injury statistics are provided as a guide only and were correct at the time of compilation. NSW Trade & Investment accepts no responsibility for the content of external sites.

- NSW Trade & Investment – Mine Safety
www.resources.nsw.gov.au/safety
- WorkCover Authority of NSW Statistical Bulletins
<http://www.workcover.nsw.gov.au/injuriesclaims/Injurystatistics/Pages/default.aspx>
- Coal Services Pty Ltd Annual reports
<http://www.coalservices.com.au/annualreports.aspx>
- NSW Minerals Council Key Industry Statistics
<http://www.nswmin.com.au/Media-Speeches-and-Info/Key-Statistics/default.aspx>
- Queensland Department of Natural Resources and Mines - Queensland Mines and Quarries Safety Performance and Health Reports
<http://mines.industry.qld.gov.au/>
- Western Australia Department of Mines and Petroleum - Resources Safety statistics
<http://www.dmp.wa.gov.au/>
- Minerals Council of Australia – Safety and Health Performance Reports
http://www.minerals.org.au/focus/safety_health/performance_reporting
- Safe Work Australia data and statistics
<http://www.safeworkaustralia.gov.au/sites/swa/statistics/pages/statistics>
- National Data Set for Compensation-based Statistics (NDS) - National Online Statistics Interactive (NOSI)
(NB NOSI has been decommissioned. See Safe Work Australia.)
- USA Mine Health and Safety Administration
<http://www.msha.gov/>
- Association of Workers Compensation Boards of Canada
<http://www.awcbc.org/en/>
- South Africa Department of Minerals and Energy – Mine Safety statistics
<http://www.dmr.gov.za/mine-health-a-safety.html>

NSW Trade & Investment – Mine Safety

PO Box 344
Hunter Region Mail Centre NSW 2310

Telephone: (02) 4931 6666

Website: www.resources.nsw.gov.au/safety

Email: mine.safety@industry.nsw.gov.au

Regional Offices

Maitland

NSW Trade & Investment - Mine Safety
Mineral Resources
516 High Street
Maitland NSW 2320
Phone: (02) 4931 6666
Fax: (02) 4931 6790
Postal: PO Box 344
Hunter Region MC NSW 2310

Lightning Ridge

NSW Trade & Investment - Mine Safety
Miners Association Building
Lot 60 Morilla Street
Lightning Ridge NSW 2834
Phone: (02) 6829 9200
Fax: (02) 6829 0825
Postal: PO Box 314
Lightning Ridge NSW 2834

Thornton

NSW Trade & Investment - Mine Safety
8 Hartley Drive
Thornton NSW 2322
Phone: (02) 4924 4000
Fax: (02) 4924 4080
Postal: PO Box 343
Hunter Region MC NSW 2310

Armidale

NSW Trade & Investment - Mine Safety
Earth Sciences Building (C2)
Ring Road North
University of New England
Armidale NSW 2351
Phone: (02) 6738 8500
Fax: (02) 6772 8664
Postal: PO Box U86 UNE
Armidale NSW 2351

Lithgow

NSW Trade & Investment - Mine Safety
Hartley Building
Suite 1, Level 1, 184 Mort Street
Lithgow NSW 2790
Phone: (02) 6350 7888
Fax: (02) 6352 3876
Postal: PO Box 69
Lithgow NSW 2790

Wollongong

NSW Trade & Investment - Mine Safety
State Government Offices
Level 3, Block F, 84 Crown Street
Wollongong NSW 2500
Phone: (02) 4222 8333
Fax: (02) 4226 3851
Postal: PO Box 674
Wollongong NSW 2500

Broken Hill

NSW Trade & Investment - Mine Safety
Level 2, 32 Sulphide Street
Broken Hill NSW 2880
Phone: (08) 8088 9300
Fax: (08) 8087 8005
Postal: PO Box 696
Broken Hill NSW 2880
Please note changed PO Box details

Orange

NSW Trade & Investment - Mine Safety
161 Kite Street
Orange NSW 2800
Phone: (02) 6360 5333
Fax: (02) 6360 5363
After-hours emergencies only:
(02) 6360 5343
Postal: Locked Bag 21
Orange NSW 2800

Cobar

NSW Trade & Investment - Mine Safety
Government Offices
62-64 Marshall Street
Cobar NSW 2835
Phone: (02) 6836 6000
Fax: (02) 6836 4395
Postal: PO Box 157
Cobar NSW 2835

Singleton

NSW Trade & Investment - Mine Safety
Coal Services Building
1 Civic Avenue
Singleton NSW 2330
Phone: (02) 6571 8788
Fax: (02) 6572 1201
Postal: PO Box 51
Singleton NSW 2330



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