



Industry &
Investment



NSW Mine Safety Performance Report

2009 - 2010

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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) Act 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 workforce numbers and 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 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	POASch 1992	Petroleum (Onshore) Act 1992 Schedule
Explosives	EXPLA 2003 EXPLR 2005	Explosives Act 2003 Explosives Regulation 2005
OHS	OHSA 2000 OHSR 2001	Occupational Health and Safety Act 2000 Occupational Health and Safety Regulation 2001

COMET DATABASE TERMS

COMET

COMET (COMmon Mines EnvironmenT) is the database system which records the day-to-day business activities of I&I NSW'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 I&I NSW 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 I&I NSW according to the relevant legislation.

Non-Notifiable Incident – High Potential Incidents and Complaints

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

For non-notifiable incidents, 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 notifiable incidents, 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 non-notifiable incidents, 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 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 I&I NSW 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.

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

1 EXECUTIVE SUMMARY

This report analyses notified incident and injury occurrences, assessments conducted and enforcement notices issued in the NSW Mining and Extractives industry between 1 July 2009 and 30 June 2010, set against eleven years of data from 1999.

It reports annual and five year average frequency rates for fatalities, lost time injuries and serious bodily injuries, and documents the growth of the mining workforce for the Coal, Metalliferous and Extractives sectors. The report breaks down incidents, injuries, assessments and enforcement notices by Coal, Metalliferous, Extractives, Non-Coal Other and Petroleum (Onshore) mining sectors, and by 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.

There was one fatality in the Petroleum (Onshore) sector in 2009-10, while the Coal, Metalliferous and Extractives sectors were fatality free.

The five year average frequency rates to June 2010 for fatalities, lost time injuries and serious bodily injuries all continued their downward trend of the past decade.

The Five Year Average Fatal Injury Frequency Rate (FIFR) to June 2010 fell by 63.9% compared to June 2005.

There were 7.4% fewer lost time injuries in 2009-10 than in the previous year and the Five Year Average Lost Time Injury Frequency Rate (LTIFR) to June 2010 fell 51.9% compared to June 2005.

The Five Year Average Serious Bodily Injury Frequency Rate (SBIFR) for 2009-10 reached a record low of 1.06 and fell by 40.8% compared to June 2005.

2009-10 was the third complete year under the new coal legislation which commenced in mid 2006-07. The new legislation generates more coal incident notifications 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 2009-10 than the average notified for the last five years (2001-02 to 2005-06) under the former legislation.

2009-10 was the first complete year under the new 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 2009-10 was 23% higher than the average notified for the last five years (2003-04 to 2007-08) under the former legislation.

In 2009-10, 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, almost two thirds occurred in underground operations and almost all were related to the work environment or mobile mechanical plant.

In 2009-10, the most common causes of injuries with notifiable outcomes (including hospital inpatient admission, at least seven days lost time and/or alternative duties, loss of consciousness and entrapment) were slips and trips, muscular stressing, or being hit by moving or falling objects. Hand and finger injuries featured prominently, 85.5% occurred in underground operations and the majority were related to either the work environment or mobile mechanical equipment.

Major Performance Measures

Targets

Industry & Investment NSW – 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%.

Fatalities

In 2009-10 there was one fatality in the Petroleum (Onshore) sector, while the Coal, Metalliferous and Extractives 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 fatalities per million hours worked. This achieved both the mid-term and the ten-year targets.

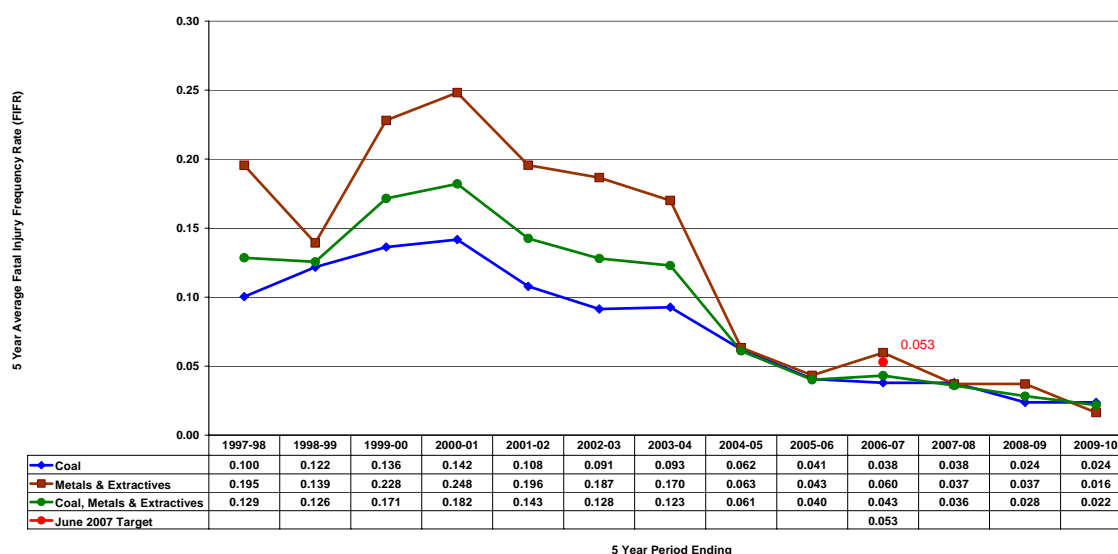
The Five Year Average Fatal Injury Frequency Rate to June 2010 was 0.022. This was an improvement of 63.9% compared to the 0.061 recorded for the five years to June 2005 and is 53.2% below the June 2012 target. The industry goal remains zero fatalities.

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

Figure 1

NSW Coal, Metalliferous & Extractives 5 Year Average Fatal Injury Frequency Rate (FIFR) 1997-98 to 2009-10

June 2012 National Target is 0.047



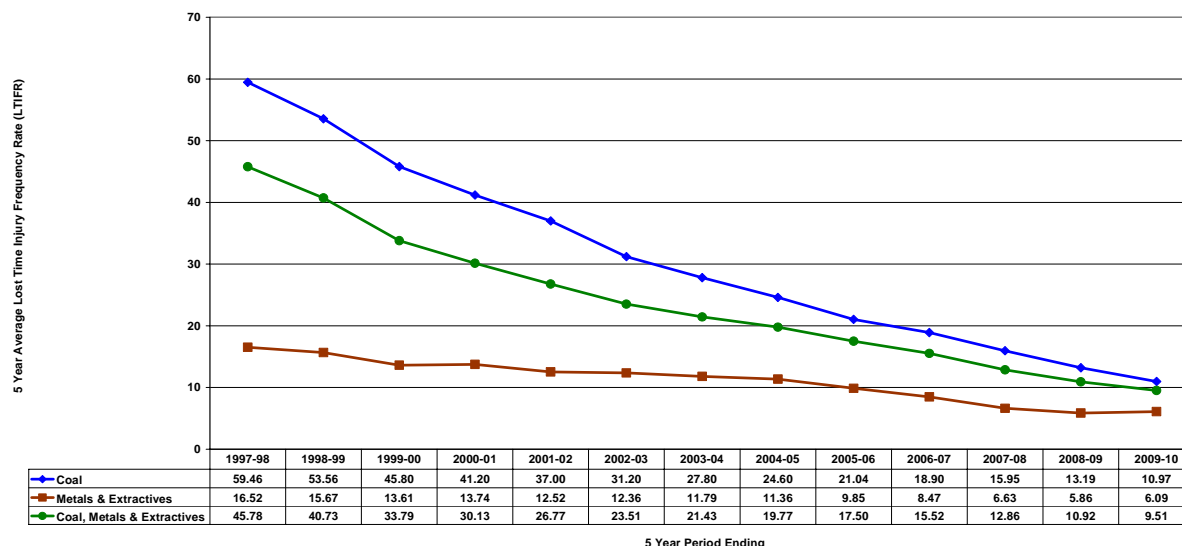
Lost Time Injuries

The Five Year Average Lost Time Injury Frequency Rate (LTIFR) of 9.51 to June 2010 was down 51.9% from the 19.77 recorded for the five years to June 2005.

Refer to the Definitions for details of Frequency Rates.

Figure 2

NSW Coal, Metalliferous & Extractives 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



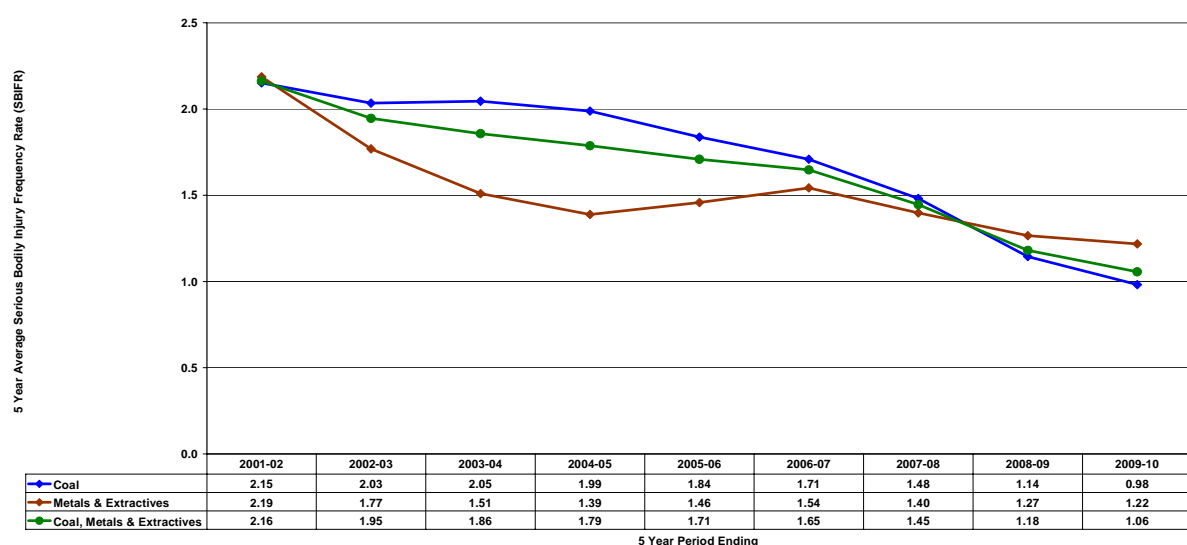
Serious Bodily Injuries

The Five Year Average Serious Bodily Injury Frequency Rate (SBIFR) of 1.06 to June 2010 was down 40.8% from the 1.79 recorded for the five years to June 2005.

Refer to the Definitions for details of Frequency Rates.

Figure 3

NSW Coal, Metalliferous & Extractives 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2001-02 to 2009-10



2 INTRODUCTION

Purpose

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

Objectives

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

About Industry & Investment NSW - Mine Safety

The Department of Industry & Investment NSW (I&I NSW) is the statutory OHS 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 following the 1997 Mine Safety Review and the 1999 Gretley Inquiry. The 2004 Wran Mine Safety Review and the Digging Deeper Report also identified further issues requiring attention. Working collaboratively, the Department and the mining industry have achieved significant improvements in OHS through a systematic performance based approach to managing risk. Industry has agreed that further OHS improvement will require culture change and there is a need to close an apparent disconnect between OHS management systems and actual behaviour at the site. Current projects being undertaken by the Mine Safety Advisory Council are addressing these issues.

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:

- I&I NSW Mine Safety
www.dpi.nsw.gov.au/minerals/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 I&I NSW'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 notices.

Industry currently notifies workplace incidents and injuries, and I&I NSW issues enforcement 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) Act 1992 Schedule	POASch 1992	08/1992
All	Explosives Act 2003	EXPLA 2003	01/09/2005
	Explosives Regulation 2005	EXPLR 2005	
	Occupational Health and Safety Act 2000	OHSA 2000	01/09/2001
	Occupational Health and Safety Regulation 2001	OHSR 2001	

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 INCIDENTS

3.1 All Incidents

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

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 5, 7, 8, 15, 16, 17 and 25:

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

3.1.1 All Incidents by Sector

Figure 4

All Incidents by Sector 1999-00 to 2009-10

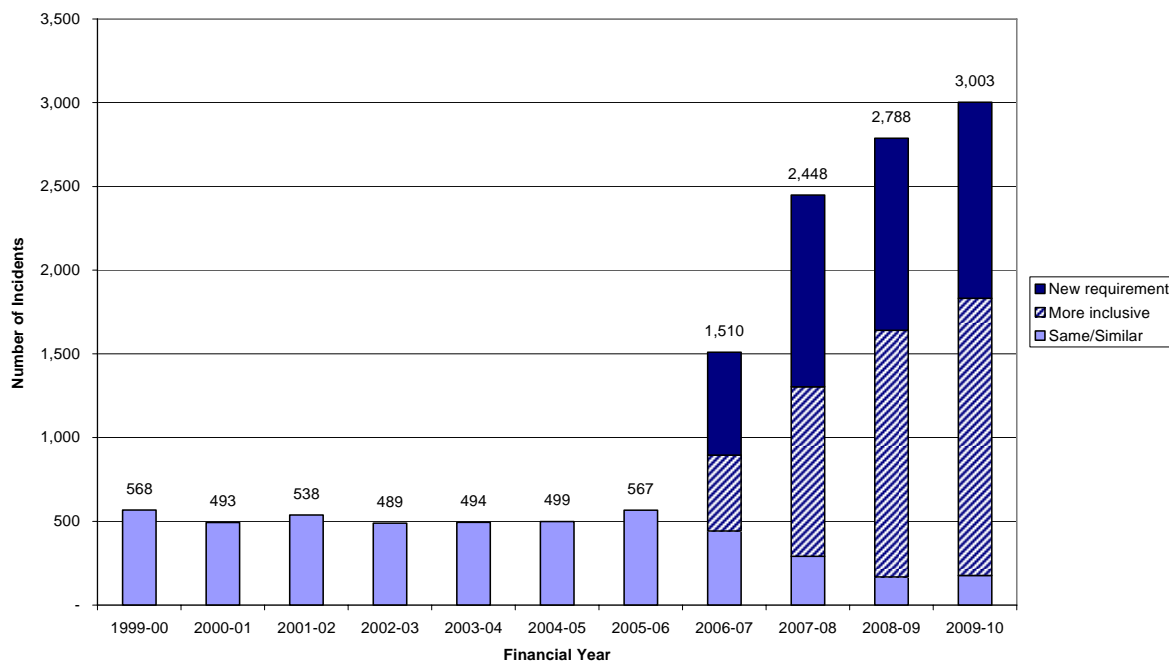
*NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09
"Unknown" refers to incidents reported by non-mine organisations*

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Coal	269	297	313	253	279	266	339	1,283	2,248	2,561	2,724	10,832
Metalliferous	177	119	141	132	136	147	155	148	130	144	185	1,614
Extractives	102	71	74	97	71	83	68	71	64	74	79	854
Non-Coal Other	9	2	1	3	4	1	3	1	2	2	3	31
Petroleum (Onshore)	1	1	2	-	1	-	-	3	-	3	10	21
Unknown	10	3	7	4	3	2	2	4	4	4	2	45
Total	568	493	538	489	494	499	567	1,510	2,448	2,788	3,003	13,397

Figure 5

All Incidents 1999-00 to 2009-10

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



3.1.2 All Incidents by Operation Type

Figure 6

All Incidents by Surface / Underground Operation 1999-00 to 2009-10

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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Underground	282	298	331	288	296	320	366	1,226	2,029	2,292	2,477	10,205
Surface	276	192	200	197	195	177	199	280	415	492	524	3,147
Unknown	10	3	7	4	3	2	2	4	4	4	2	45
Total	568	493	538	489	494	499	567	1,510	2,448	2,788	3,003	13,397

Figure 7

All Surface Incidents 1999-00 to 2009-10

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

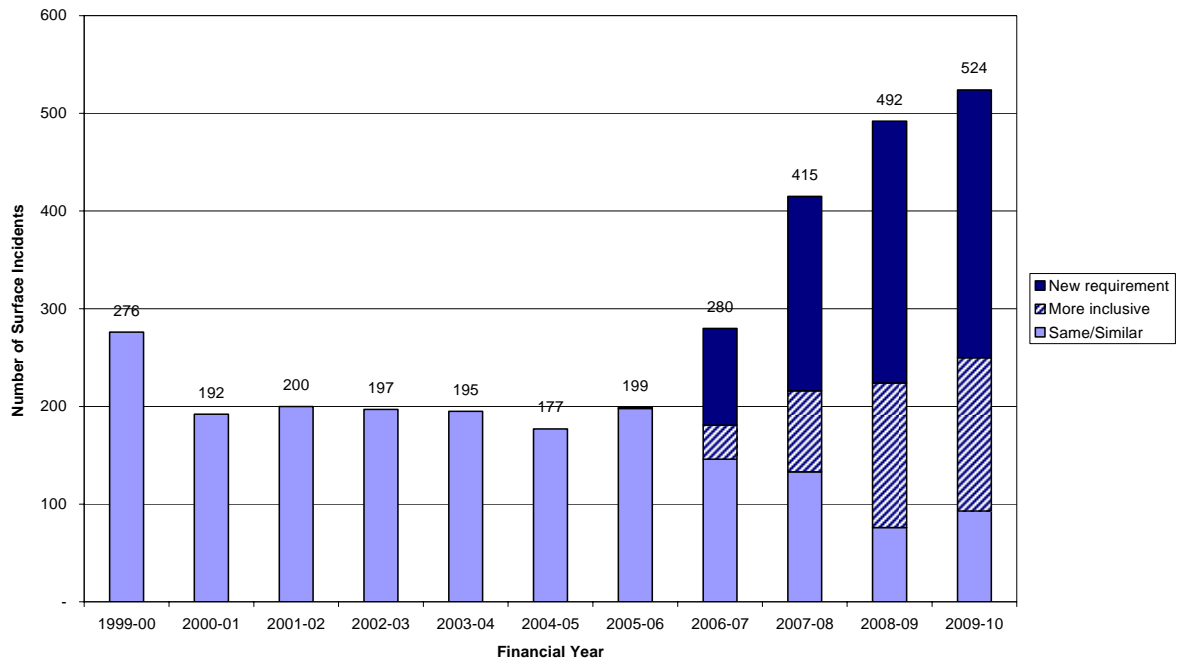
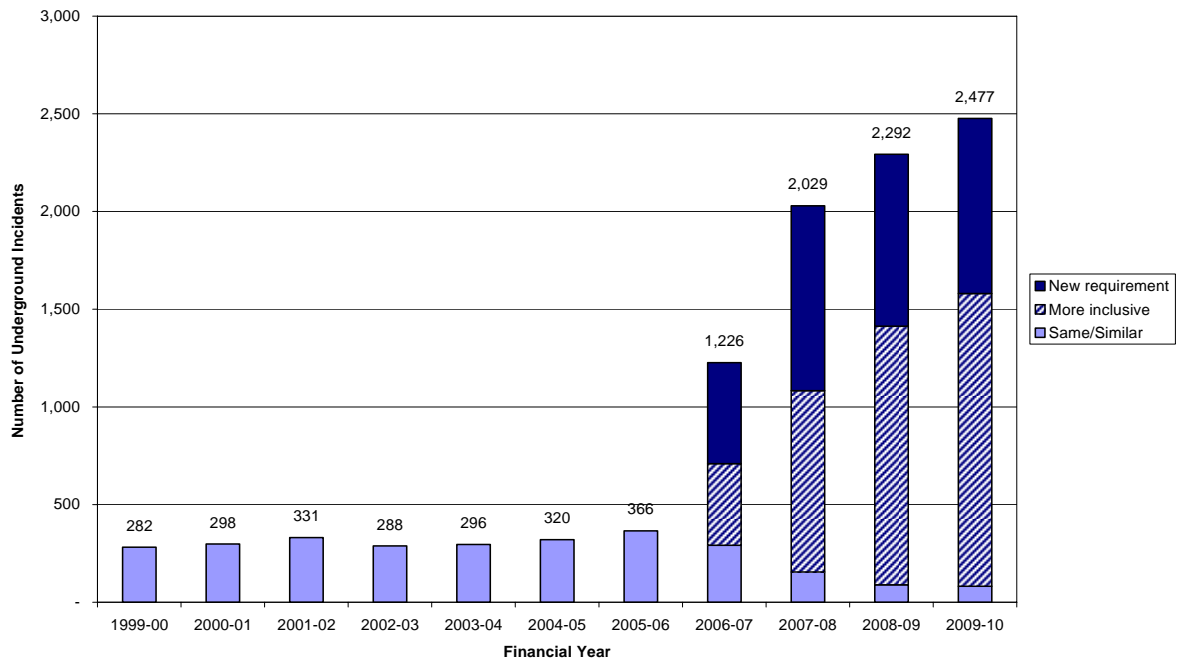


Figure 8

All Underground Incidents 1999-00 to 2009-10

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



3.1.3 All Incidents by Incident Investigation Level

Figure 9

All Incidents by Incident Investigation Level 1999-00 to 2009-10

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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
No Data	263	165	236	174	154	175	57	-	-	-	-	1,224
Level 1 - No need to attend. Mine to investigate & report.	214	259	200	213	238	219	289	1,041	2,037	2,338	2,487	9,535
Level 2 - Official to attend mine.	48	53	65	67	67	88	216	462	405	441	513	2,425
Level 3 - Detailed investigation suitable for further action	43	16	37	35	35	17	5	7	6	9	3	213
Total	568	493	538	489	494	499	567	1,510	2,448	2,788	3,003	13,397

Figure 10

All Incidents by Incident Investigation Level 1999-00 to 2009-10

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

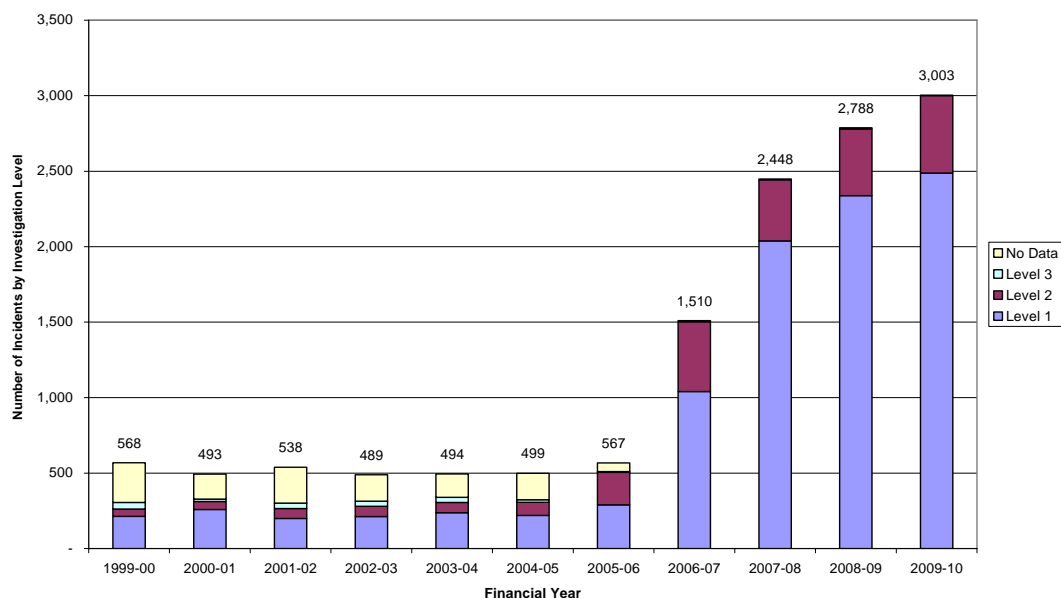
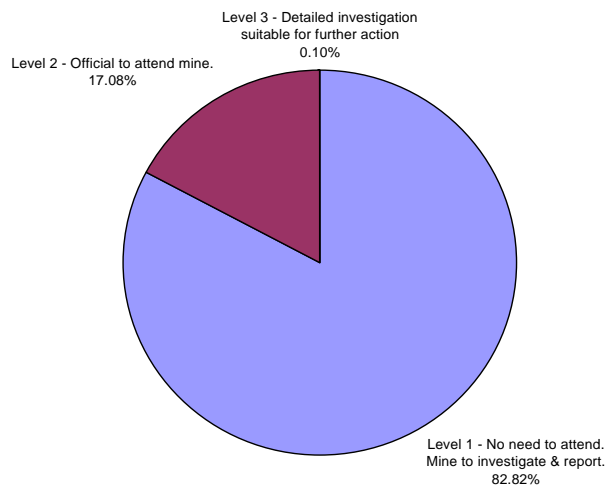


Figure 11

All Incidents by Incident Investigation Level 2009-10



3.1.4 All Incidents by Event Subtype

Figure 12

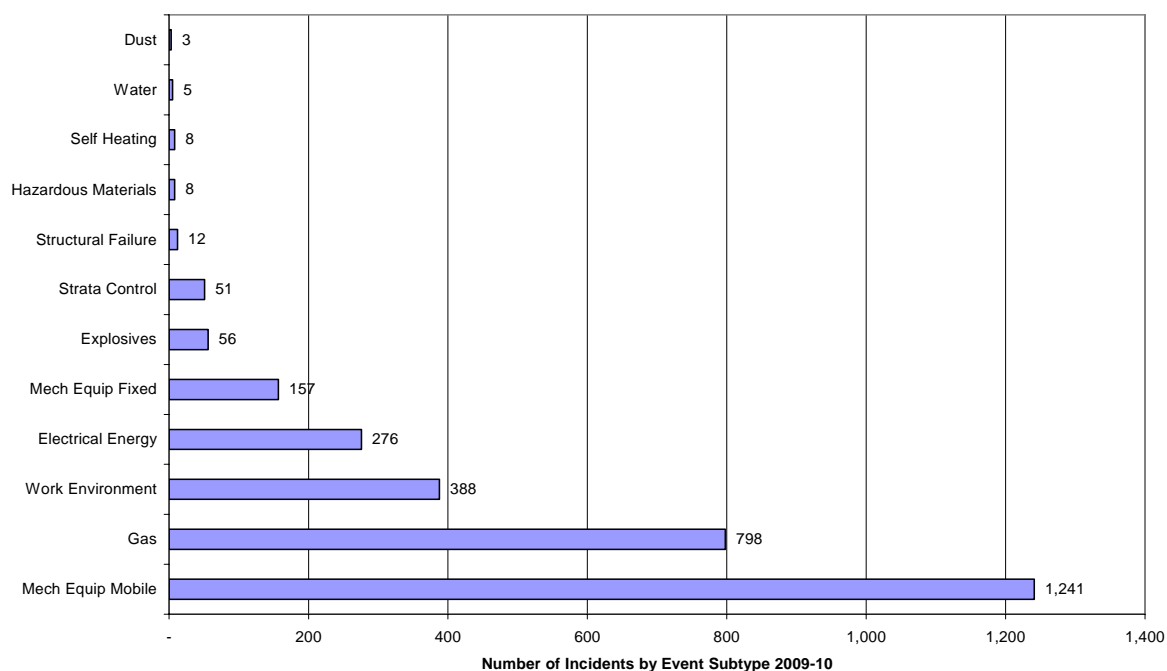
All Incidents by Event Subtype 1999-00 to 2009-10

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	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Mech Equip Mobile	248	222	216	190	206	200	228	646	1,019	1,097	1,241	5,513
Gas	5	7	9	6	13	9	4	296	669	810	798	2,626
Electrical Energy	55	101	141	131	129	157	196	235	217	239	276	1,877
Work Environment	116	58	60	43	57	52	55	177	349	345	388	1,700
Mech Equip Fixed	47	34	33	43	32	25	25	46	64	158	157	664
Strata Control	32	30	41	27	24	25	23	34	42	42	51	371
Explosives	19	14	20	22	14	22	19	51	64	68	56	369
Structural Failure	10	5	4	5	8	5	7	10	11	10	12	87
Hazardous Materials	15	8	5	8	6	1	1	5	7	9	8	73
Self Heating	7	4	3	3	2	-	5	5	3	7	8	47
Water	10	6	1	7	2	2	4	4	3	1	5	45
Dust	3	2	2	2	1	1	-	-	-	2	3	16
Fatality - Non-mining	1	2	3	2	-	-	-	1	-	-	-	9
Total	568	493	538	489	494	499	567	1,510	2,448	2,788	3,003	13,397

Figure 13

All Incidents by Event Subtype 2009-10



3.2 Coal Incidents

The commencement of new coal legislation (CMHSA 2002 and CMHSR 2006) in mid 2006-07 resulted in an increase in coal incident notifications 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).

Nine times the number of coal incidents were notified in 2009-10 than the average 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 legislation, not the safety performance of the industry.

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.

3.2.1 Coal Incidents by Operation Type

Figure 14

Coal Incidents by Operation Type 1999-00 to 2009-10

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

Operation Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Underground	143	197	220	182	191	207	244	1,111	1,933	2,187	2,349	8,964
Surface	126	100	93	71	88	59	95	172	315	374	375	1,868
Total	269	297	313	253	279	266	339	1,283	2,248	2,561	2,724	10,832

Figure 15

Coal Incidents 1999-00 to 2009-10

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

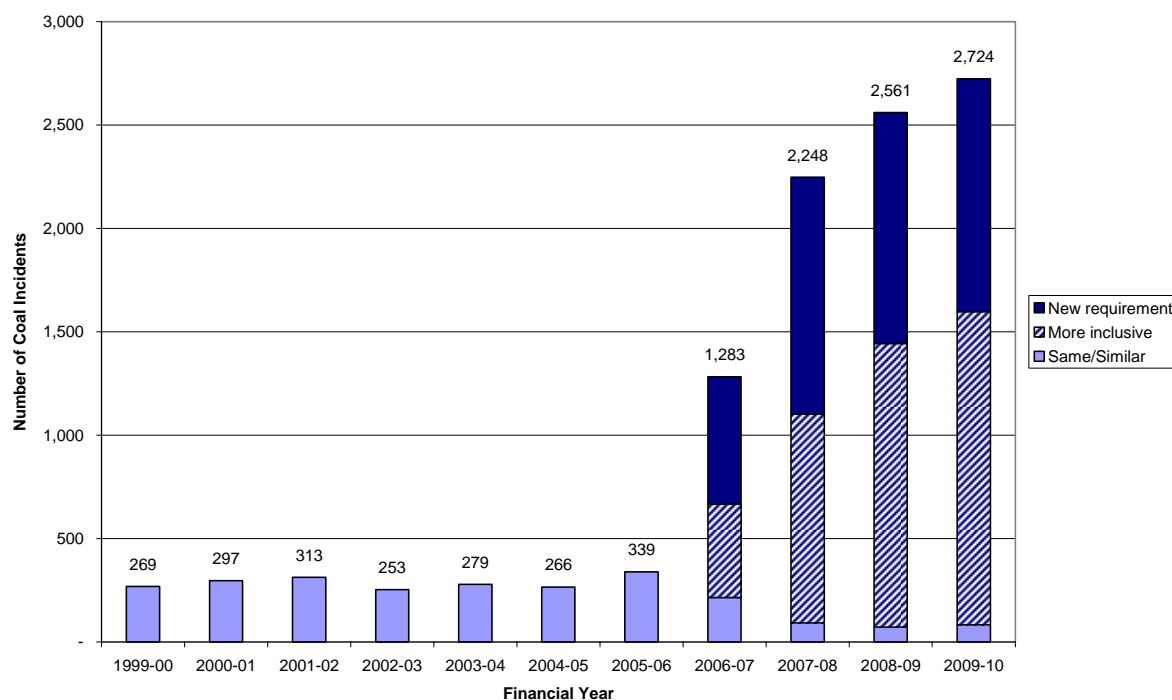


Figure 16
Coal Surface Incidents 1999-00 to 2009-10
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

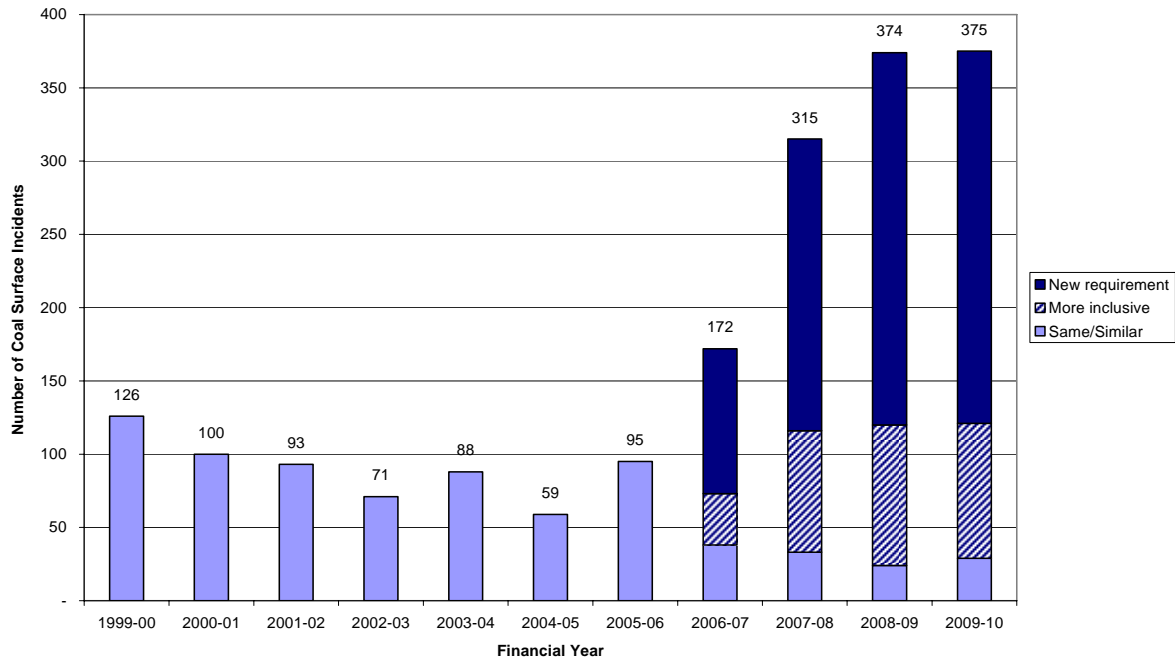
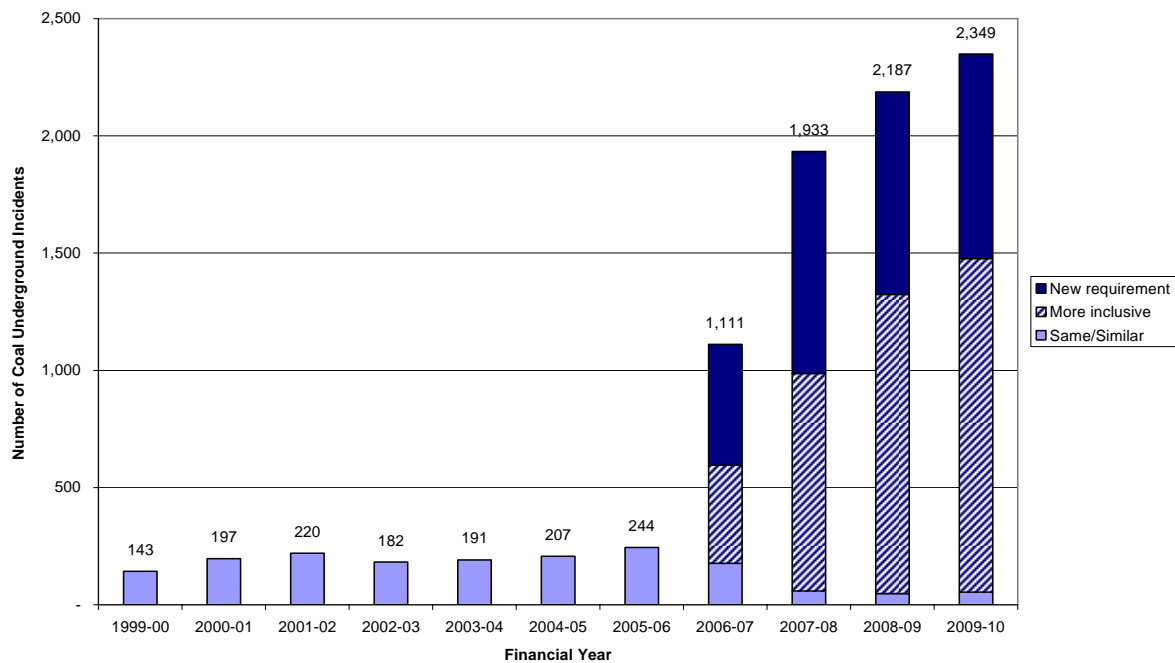


Figure 17
Coal Underground Incidents 1999-00 to 2009-10
NB Increase from mid 2006-07 due to requirements of CMHSR 2006



3.2.2 Coal Incidents by Incident Investigation Level

Figure 18

Coal Incidents by Incident Investigation Level 1999-00 to 2009-10
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
No Data	107	61	116	63	71	56	36	-	-	-	-	510
Level 1 - No need to attend. Mine to investigate & report.	119	192	142	138	158	145	154	921	1,934	2,217	2,326	8,446
Level 2 - Official to attend mine.	25	33	33	35	29	51	148	359	311	337	397	1,758
Level 3 - Detailed investigation suitable for further action	18	11	22	17	21	14	1	3	3	7	1	118
Total	269	297	313	253	279	266	339	1,283	2,248	2,561	2,724	10,832

Figure 19

Coal Incidents by Incident Investigation Level 1999-00 to 2009-10
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

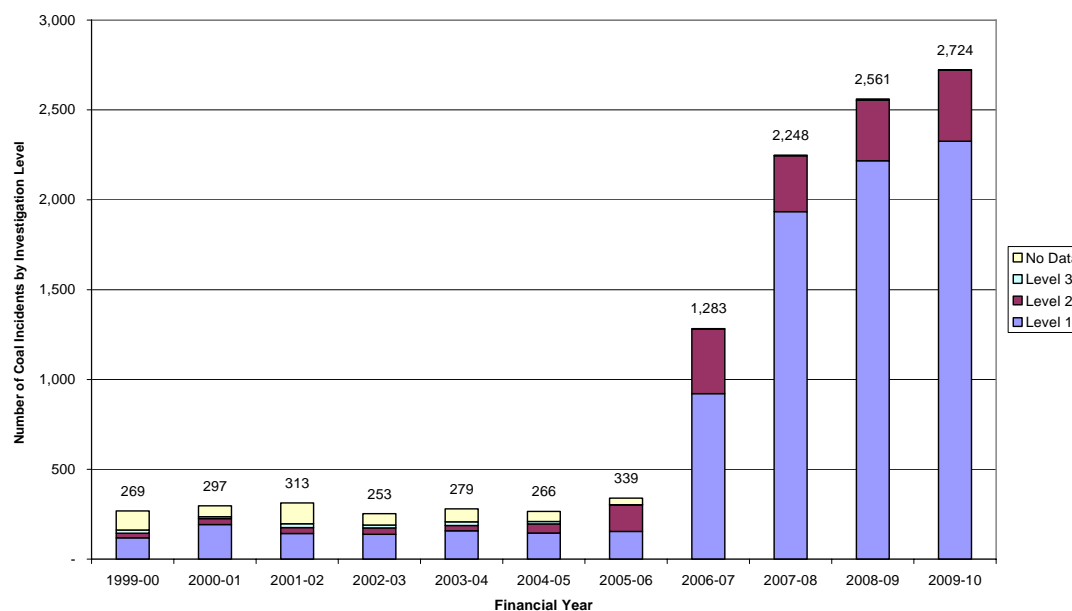
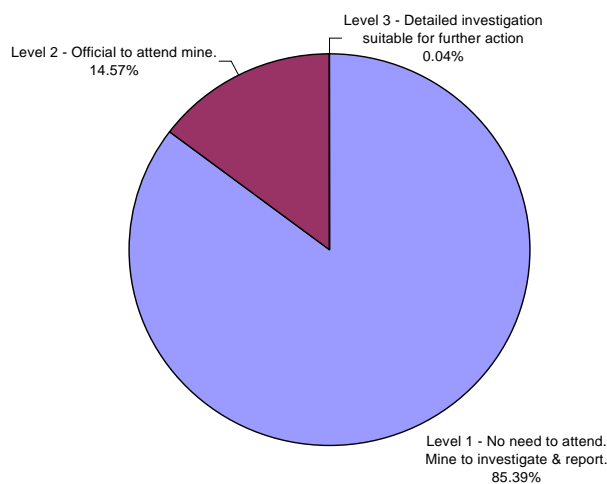


Figure 20

Coal Incidents by Incident Investigation Level 2009-10



3.2.3 Coal Incidents by Event Subtype

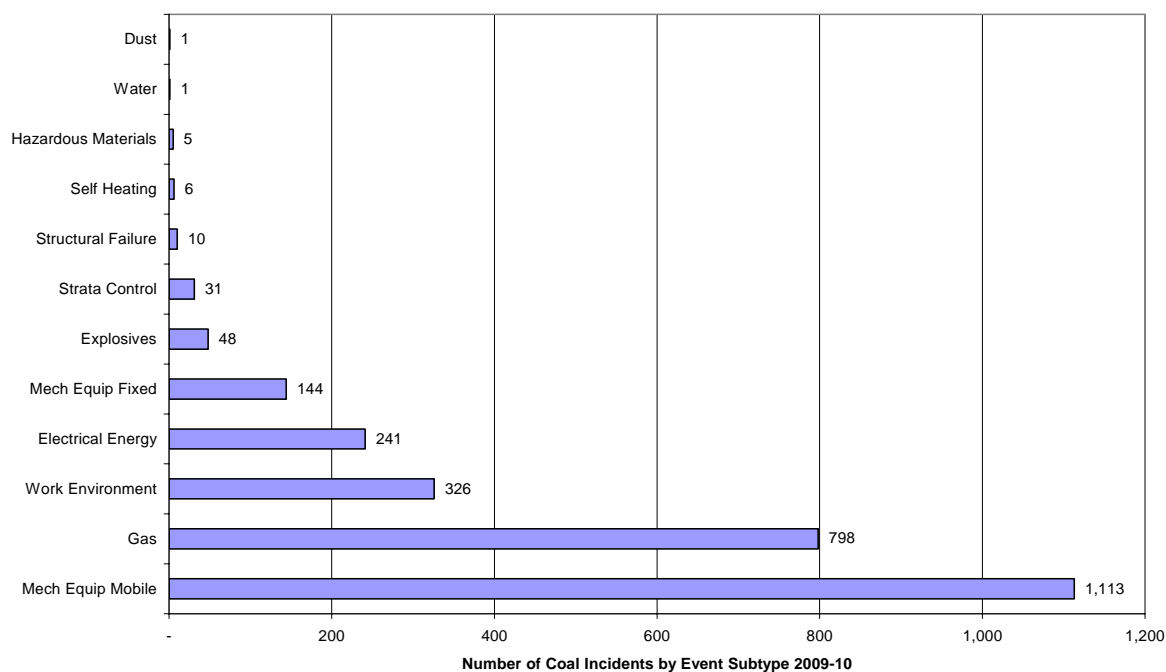
Figure 21

Coal Incidents by Event Subtype 1999-00 to 2009-10
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Mech Equip Mobile	141	145	121	94	114	96	116	538	938	978	1,113	4,394
Gas	2	2	6	5	12	7	4	294	665	810	798	2,605
Electrical Energy	36	70	111	85	91	116	166	200	187	212	241	1,515
Work Environment	24	16	24	17	22	18	21	136	307	310	326	1,221
Mech Equip Fixed	27	29	18	25	19	13	15	39	48	146	144	523
Strata Control	19	21	26	12	14	9	10	28	30	33	31	233
Explosives	-	1	-	2	1	4	-	30	55	55	48	196
Structural Failure	7	3	-	2	4	3	1	8	9	7	10	54
Self Heating	7	4	3	3	1	-	5	4	2	5	6	40
Hazardous Materials	5	1	1	5	-	-	-	4	6	3	5	30
Water	1	2	-	1	-	-	1	2	1	1	1	10
Dust	-	2	1	1	1	-	-	-	-	1	1	7
Fatality - Non-mining	-	1	2	1	-	-	-	-	-	-	-	4
Total	269	297	313	253	279	266	339	1,283	2,248	2,561	2,724	10,832

Figure 22

Coal Incidents by Event Subtype 2009-10
NB Increase from mid 2006-07 due to requirements of CMHSR 2006



3.2.4 Coal Incidents by Incident Type

Figure 23

Coal Incidents by Incident Type 1999-00 to 2009-10.

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

Legislation Category	Incident Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
*CMRA	*1984 Dangerous Occurrence O/C	38	7	-	-	-	-	-	-	-	-	-	45
	Serious Bodily Injury CMRA	-	2	7	20	14	-	-	-	-	-	-	43
	*1984 Dangerous Occurrence U/G	22	8	-	-	-	-	-	-	-	-	-	30
	*Fatality	-	-	-	-	1	-	-	-	-	-	-	1
	Total	60	17	7	20	15	-	-	-	-	-	-	119
*CMGNR	Non Spec Acc Ending in Fat/Injury	40	38	31	20	32	29	29	33	-	-	-	252
	Notifiable Incidents DCCP CMGNR 1999, CI 83	18	20	20	9	8	8	15	5	-	-	-	103
	Total	58	58	51	29	40	37	44	38	-	-	-	355
*CMOCR	Notifiable Incidents CMOCR 1999, CI 16	49	73	54	40	64	39	69	10	-	-	-	398
	Total	49	73	54	40	64	39	69	10	-	-	-	398
*CMUGR	Other Notifiable Incidents CMUGR 1999 CI 34B	-	-	2	12	47	97	116	59	-	-	-	333
	Dangerous Occurrences CMUGR 1999, CI 34(1)	24	64	70	61	39	30	22	12	-	-	-	322
	Incidents CMUGR 1999, CI 34 (2) Repealed 4/7/2003	35	66	68	54	12	-	-	-	-	-	-	235
	Notifiable Incidents CMUGR 1999 CI 34A	-	1	7	1	38	38	74	45	-	-	-	204
	Total	59	131	147	128	136	165	212	116	-	-	-	1,094
CMHS	CMHSR 2006 CI 56(1)	-	-	-	-	-	-	-	784	1,535	1,879	2,015	6,213
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	215	483	429	417	1,544
	CMHSR 2006 CI 55	-	-	-	-	-	-	-	108	216	247	279	850
	CMHSR 2006 CI 57	-	-	-	-	-	-	-	-	-	-	6	6
	Total	-	-	-	-	-	-	-	-	1,107	2,234	2,555	2,717
Explosives	Explosives Regulation 2005	-	-	-	-	-	-	-	1	-	-	-	1
	Total	-	-	-	-	-	-	-	1	-	-	-	1
N/A	High Potential Incident	24	14	14	18	23	24	12	11	12	5	7	164
	Unknown	13	3	39	18	-	-	-	-	-	-	-	73
	Complaint	6	1	1	-	1	1	2	-	2	1	-	15
	Total	43	18	54	36	24	25	14	11	14	6	7	252
Total	269	297	313	253	279	266	339	1,283	2,248	2,561	2,724	10,832	

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

3.3 Non-Coal Incidents

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

The total number of metalliferous and extractives incidents in 2009-10 was 23% 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 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.

3.3.1 Non-Coal Incidents by Operation Type

Figure 24
Non-Coal Incidents by Operation Type 1999-00 to 2009-10
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

Operation Type	Mine Category	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Surface	Metalliferous	38	18	30	26	34	39	39	34	36	41	61	396
	Extractives	102	71	74	97	70	78	62	70	62	73	77	836
	Non-Coal Other	9	2	1	3	2	1	3	1	2	1	1	26
	Total	149	91	105	126	106	118	104	105	100	115	139	1,258
Underground	Metalliferous	139	101	111	106	102	108	116	114	94	103	124	1,218
	Extractives	-	-	-	-	1	5	6	1	2	1	2	18
	Non-Coal Other	-	-	-	-	2	-	-	-	-	1	2	5
	Total	139	101	111	106	105	113	122	115	96	105	128	1,241
Total	288	192	216	232	211	231	226	220	220	196	220	267	2,499

Figure 25
Non-Coal Incidents 1999-00 to 2009-10
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

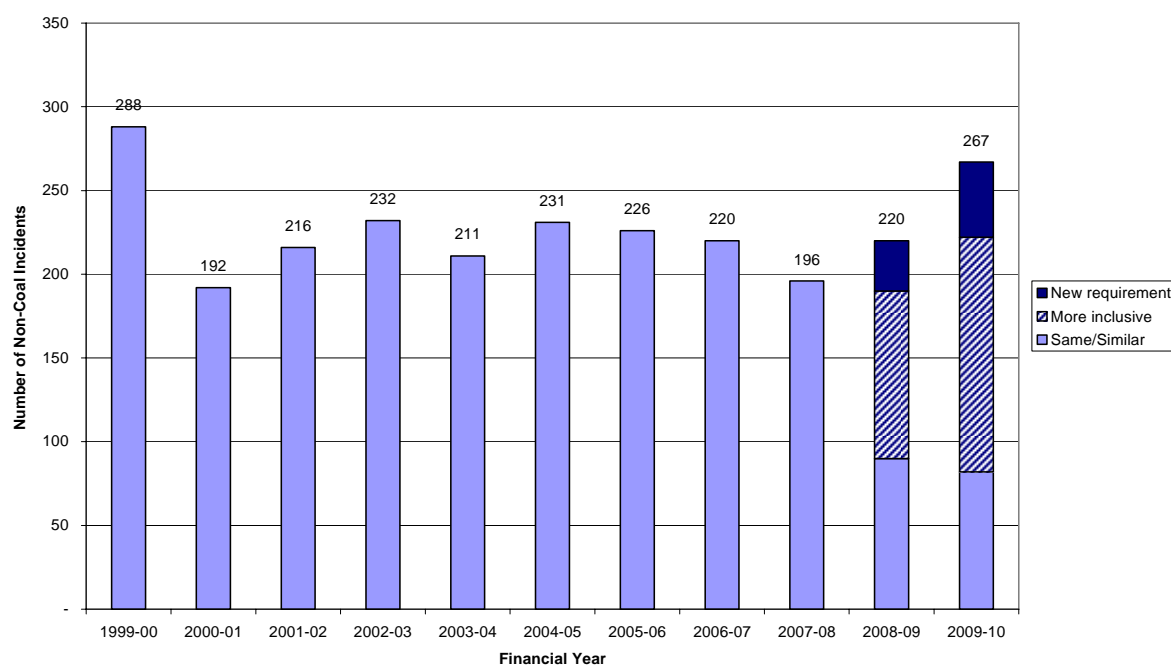


Figure 26
 Non-Coal Surface Incidents 1999-00 to 2009-10
 NB Increase from Q2 2008-09 due to requirements of MHSR 2007

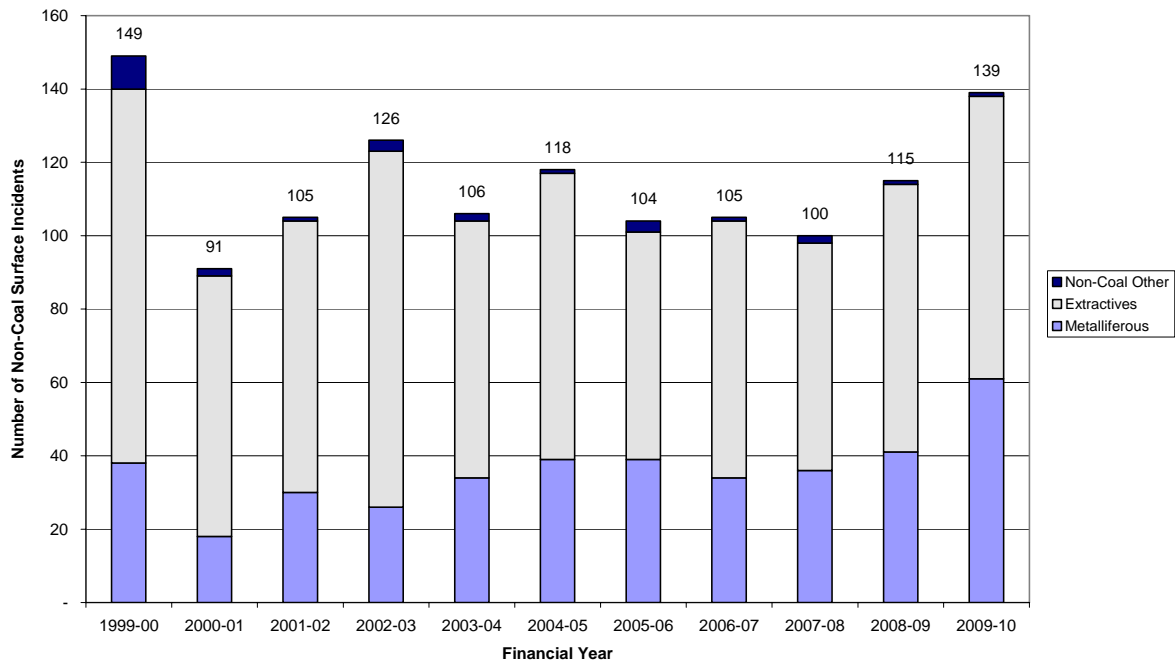
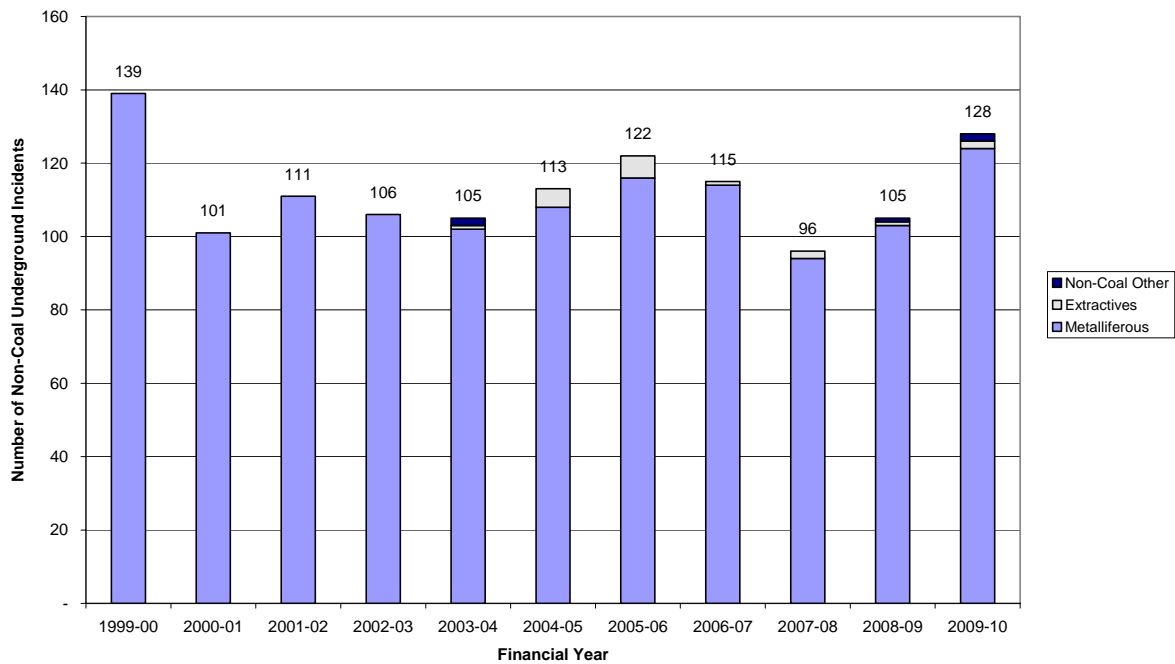


Figure 27
 Non-Coal Underground Incidents 1999-00 to 2009-10
 NB Increase from Q2 2008-09 due to requirements of MHSR 2007



3.3.2 Non-Coal Metalliferous Incidents by Incident Investigation Level

Figure 28

Non-Coal Metalliferous Incidents by Incident Investigation Level 1999-00 to 2009-10
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
No Data	91	78	82	69	58	84	10	-	-	-	-	472
Level 1 - No need to attend. Mine to investigate & report.	55	27	27	36	49	44	99	80	69	87	115	688
Level 2 - Official to attend mine.	15	10	21	16	21	17	45	65	59	55	69	393
Level 3 - Detailed investigation suitable for further action	16	4	11	11	8	2	1	3	2	2	1	61
Total	177	119	141	132	136	147	155	148	130	144	185	1,614

Figure 29

Non-Coal Metalliferous Incidents by Incident Investigation Level 1999-00 to 2009-10
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

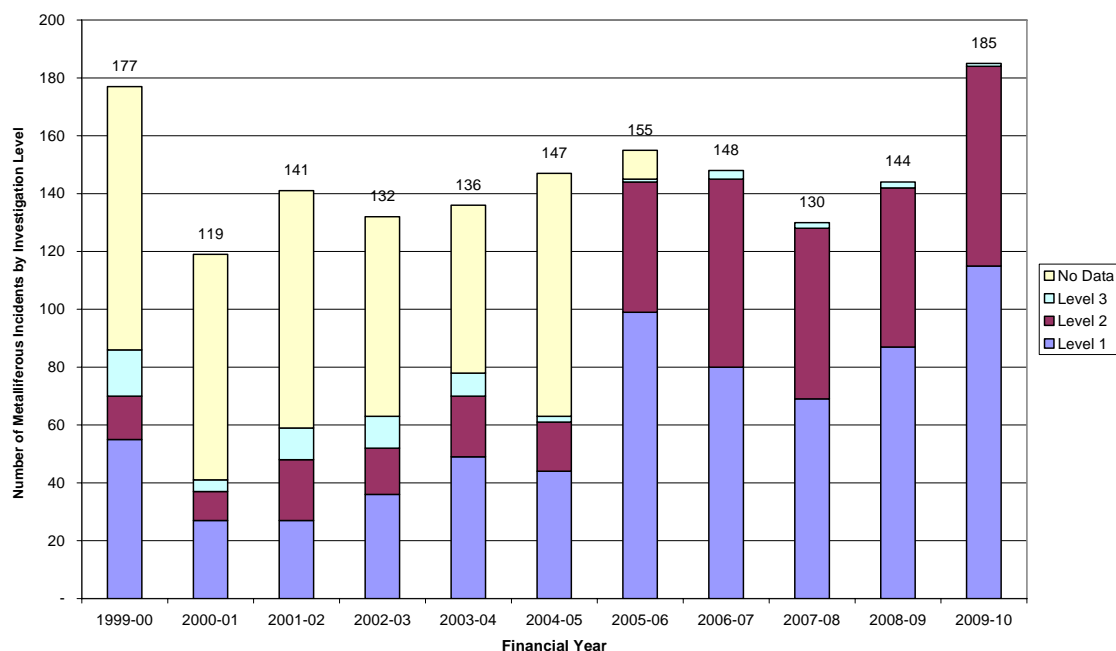
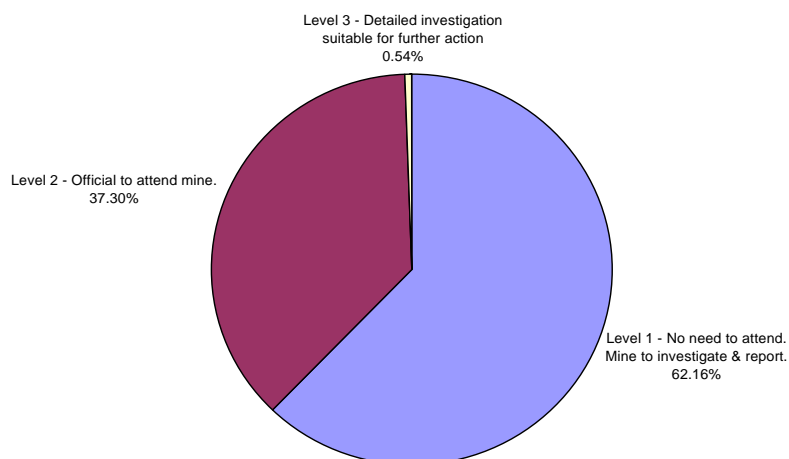


Figure 30

Non-Coal Metalliferous Incidents by Incident Investigation Level 2009-10



3.3.3 Non-Coal Metalliferous Incidents by Event Subtype

Figure 31

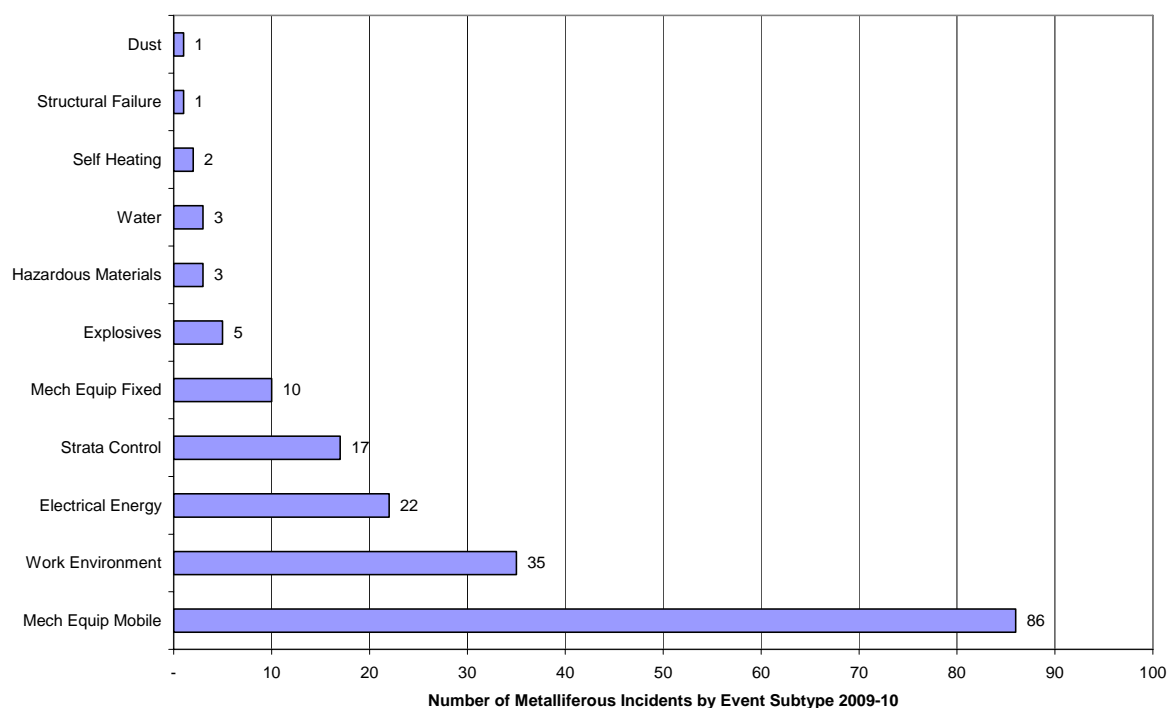
Non-Coal Metalliferous Incidents by Event Subtype 1999-00 to 2009-10

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

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Mech Equip Mobile	59	50	64	56	58	67	87	75	51	81	86	734
Electrical Energy	17	27	27	28	26	31	23	27	22	17	22	267
Work Environment	54	18	15	10	23	18	17	24	24	18	35	256
Strata Control	13	7	12	14	9	13	10	6	10	6	17	117
Mech Equip Fixed	11	2	7	9	6	10	8	3	11	7	10	84
Explosives	5	4	6	2	4	2	2	5	4	5	5	44
Hazardous Materials	4	5	4	3	5	-	1	1	-	5	3	31
Water	8	3	-	5	2	2	3	2	2	-	3	30
Structural Failure	1	1	3	3	1	2	4	2	2	3	1	23
Gas	2	2	1	1	1	2	-	2	4	-	-	15
Dust	3	-	1	1	-	-	-	-	-	-	1	6
Self Heating	-	-	-	-	1	-	-	1	-	2	2	6
Fatality - Non-mining	-	-	1	-	-	-	-	-	-	-	-	1
Total	177	119	141	132	136	147	155	148	130	144	185	1,614

Figure 32

Non-Coal Metalliferous Incidents by Event Subtype 2009-10



3.3.4 Non-Coal Metalliferous Incidents by Incident Type

Figure 33

Non-Coal Metalliferous Incidents by Incident Type 1999-00 to 2009-10

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

Legislation Category	Incident Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
*MIA	Dangerous Incident	-	4	37	66	73	70	88	63	39	5	-	445
	*Pre Sept 2000 Dangerous Incident MIA	21	62	52	1	-	-	-	-	-	-	-	136
	Non Spec Acc Ending in Fat/Injury	69	9	6	2	4	4	11	18	9	4	-	136
	*1994 Emergency MIA	53	6	3	-	-	-	-	-	-	-	-	62
	*Serious Injury MIA	-	-	3	3	8	-	-	-	-	-	-	14
	*Minor Accident MIA	-	-	1	4	-	-	-	-	-	-	-	5
	*Fatality	-	-	-	1	-	-	-	-	-	-	-	1
	Total	143	81	102	77	85	74	99	81	48	9	-	799
Explosives	Explosives Regulation 2005	-	-	-	-	-	-	-	2	-	-	-	2
	Total	-	-	-	-	-	-	-	2	-	-	-	2
MHS	MHSR 2007 Cl 145	-	-	-	-	-	-	-	-	-	90	137	227
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	-	-	10	20	30
	MHSR 2007 Cl 146(1)	-	-	-	-	-	-	-	-	-	-	1	1
	Total	-	-	-	-	-	-	-	-	-	100	158	258
N/A	High Potential Incident	21	33	30	50	38	62	45	59	71	27	13	449
	Complaint	3	4	9	3	13	11	11	6	11	8	14	93
	UNKNOWN	10	1	-	2	-	-	-	-	-	-	-	13
	Total	34	38	39	55	51	73	56	65	82	35	27	555
Total	177	119	141	132	136	147	155	148	130	144	185	1,614	

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

3.3.5 Non-Coal Extractives Incidents by Incident Investigation Level

Figure 34

Non-Coal Extractives Incidents by Incident Investigation Level 1999-00 to 2009-10
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
No Data	50	23	31	37	21	32	11	-	-	-	-	205
Level 1 - No need to attend. Mine to investigate & report.	38	38	29	39	29	30	35	33	32	29	41	373
Level 2 - Official to attend mine.	6	9	11	16	15	20	21	37	31	45	38	249
Level 3 - Detailed investigation suitable for further action	8	1	3	5	6	1	1	1	1	-	-	27
Total	102	71	74	97	71	83	68	71	64	74	79	854

Figure 35

Non-Coal Extractives Incidents by Incident Investigation Level 1999-00 to 2009-10
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

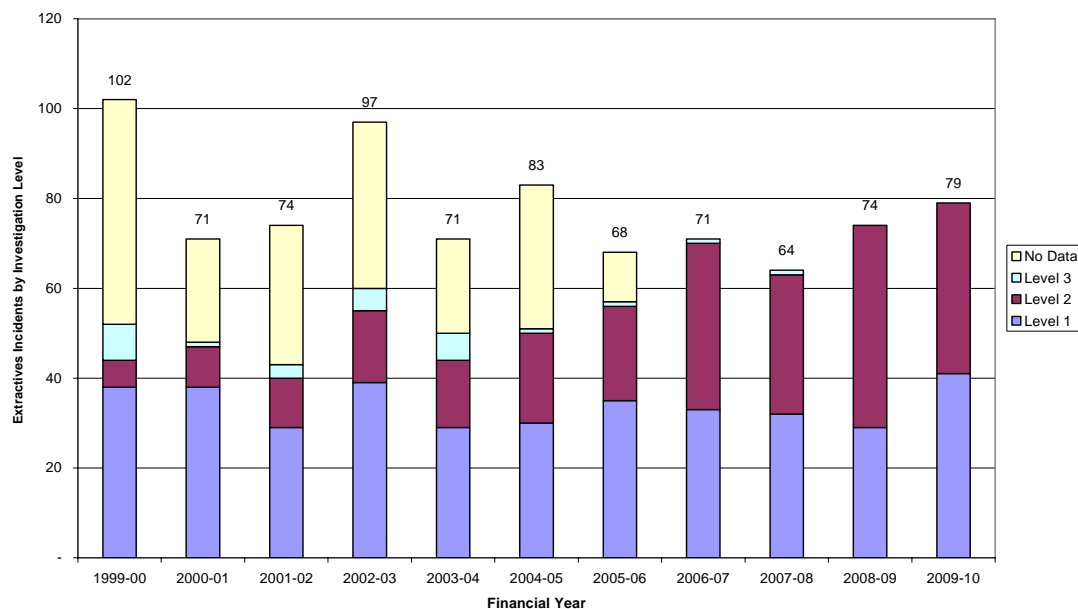
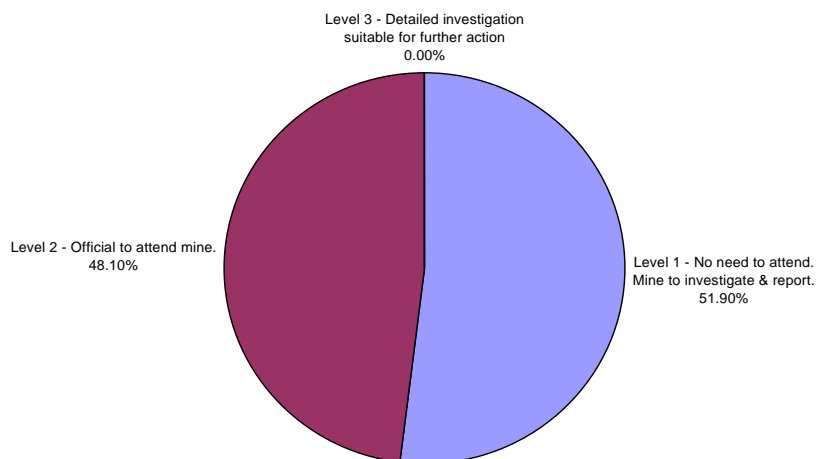


Figure 36

Non-Coal Extractives Incidents by Incident Investigation Level 2009-10



3.3.6 Non-Coal Extractives Incidents by Event Subtype

Figure 37

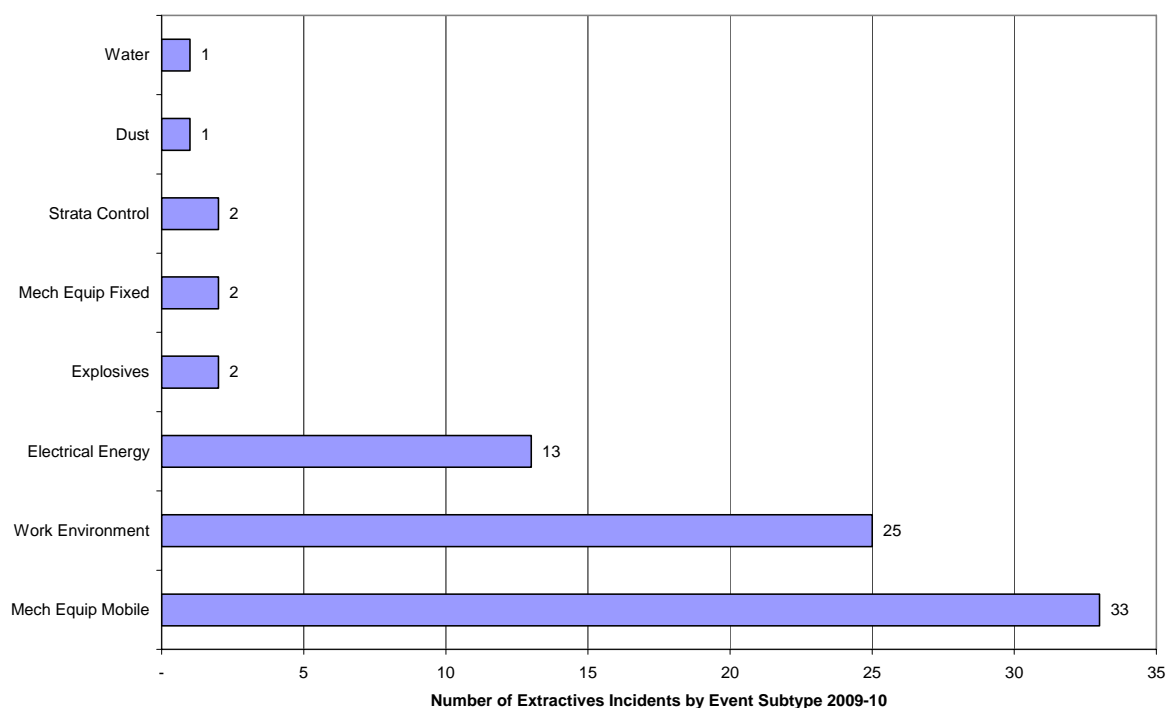
Non-Coal Extractives Incidents by Event Subtype 1999-00 to 2009-10

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

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Mech Equip Mobile	43	26	27	38	29	37	25	28	29	33	33	348
Work Environment	32	23	19	16	11	14	14	14	14	15	25	197
Explosives	11	9	13	18	9	16	17	16	5	7	2	123
Electrical Energy	2	4	2	15	12	10	7	8	8	10	13	91
Mech Equip Fixed	7	3	8	8	7	2	2	4	4	5	2	52
Strata Control	-	2	2	1	1	2	2	-	2	2	2	16
Hazardous Materials	6	1	-	-	1	1	-	-	1	1	-	11
Structural Failure	1	1	1	-	1	-	1	-	-	-	-	5
Fatality - Non-mining	-	1	-	1	-	-	-	1	-	-	-	3
Dust	-	-	-	-	-	1	-	-	-	1	1	3
Water	-	1	1	-	-	-	-	-	-	-	1	3
Gas	-	-	1	-	-	-	-	-	-	-	-	1
Self Heating	-	-	-	-	-	-	-	-	1	-	-	1
Total	102	71	74	97	71	83	68	71	64	74	79	854

Figure 38

Non-Coal Extractives Incidents by Event Subtype 2009-10



3.3.7 Non-Coal Extractives Incidents by Incident Type

Figure 39

Non-Coal Extractives Incidents by Incident Type 1999-00 to 2009-10

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

Legislation Category	Incident Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
*MIA	Dangerous Incident	-	4	8	28	23	24	22	18	18	2	-	147
	Non Spec Acc Ending in Fat/Injury	40	14	6	2	4	1	3	11	4	-	-	85
	*1994 Emergency MIA	33	2	-	-	-	-	-	-	-	-	-	35
	*Pre Sept 2000 Dangerous Incident MIA	9	8	9	-	-	-	-	-	-	-	-	26
	*Serious Injury MIA	-	-	4	4	3	-	-	-	-	-	-	11
	*Minor Accident MIA	-	-	-	4	-	-	-	-	-	-	-	4
	Total		82	28	27	38	30	25	25	29	22	2	-
Explosives	Explosives Regulation 2005	-	-	-	-	-	-	1	1	-	-	-	2
	Total	-	-	-	-	-	-	1	1	-	-	-	2
MHS	MHSR 2007 CI 145	-	-	-	-	-	-	-	-	-	37	41	78
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	-	-	7	10	17
	MHSR 2007 CI 146(1)	-	-	-	-	-	-	-	-	-	2	2	4
	Total	-	-	-	-	-	-	-	-	-	46	53	99
N/A	High Potential Incident	12	33	26	40	30	40	29	27	33	15	8	293
	Complaint	3	10	21	16	11	18	13	14	9	11	18	144
	Unknown	5	-	-	3	-	-	-	-	-	-	-	8
	Total	20	43	47	59	41	58	42	41	42	26	26	445
Total	102	71	74	97	71	83	68	71	64	74	79	854	

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

3.3.8 Non-Coal Other Incidents by Incident Investigation Level

Figure 40

Non-Coal Other Incidents by Incident Investigation Level 1999-00 to 2009-10
 NB MHSR 2007 commenced Q2 2008-09

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
No Data	9	2	-	2	2	1	-	-	-	-	-	16
Level 1 - No need to attend. Mine to investigate & report.	-	-	-	-	1	-	-	1	-	2	1	5
Level 2 - Official to attend mine.	-	-	-	-	1	-	1	-	2	-	2	6
Level 3 - Detailed investigation suitable for further action	-	-	1	1	-	-	2	-	-	-	-	4
Total	9	2	1	3	4	1	3	1	2	2	3	31

Figure 41

Non-Coal Other Incidents by Incident Investigation Level 1999-00 to 2009-10
 NB MHSR 2007 commenced Q2 2008-09

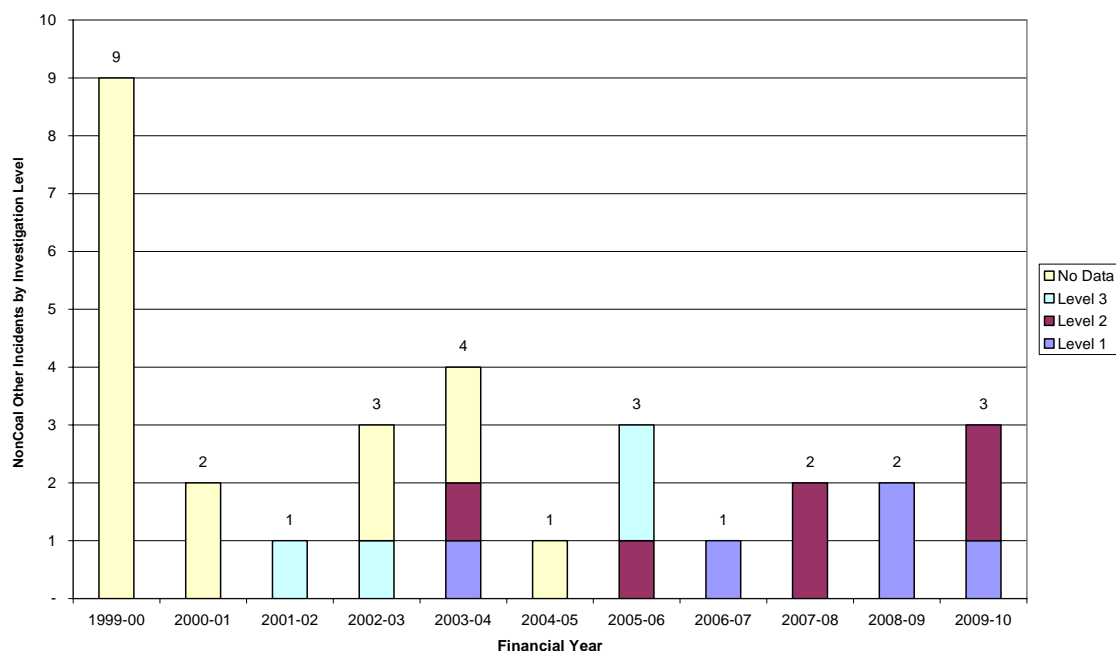
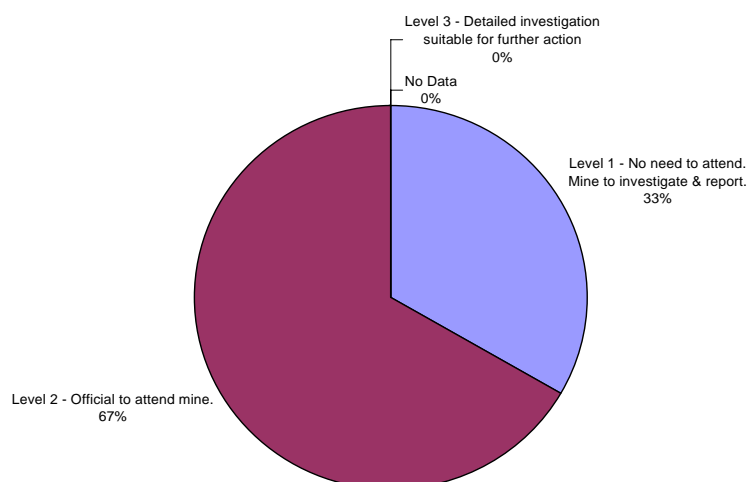


Figure 42

Non-Coal Other Incidents by Incident Investigation Level 2009-10



3.3.9 Non-Coal Other Incidents by Event Subtype

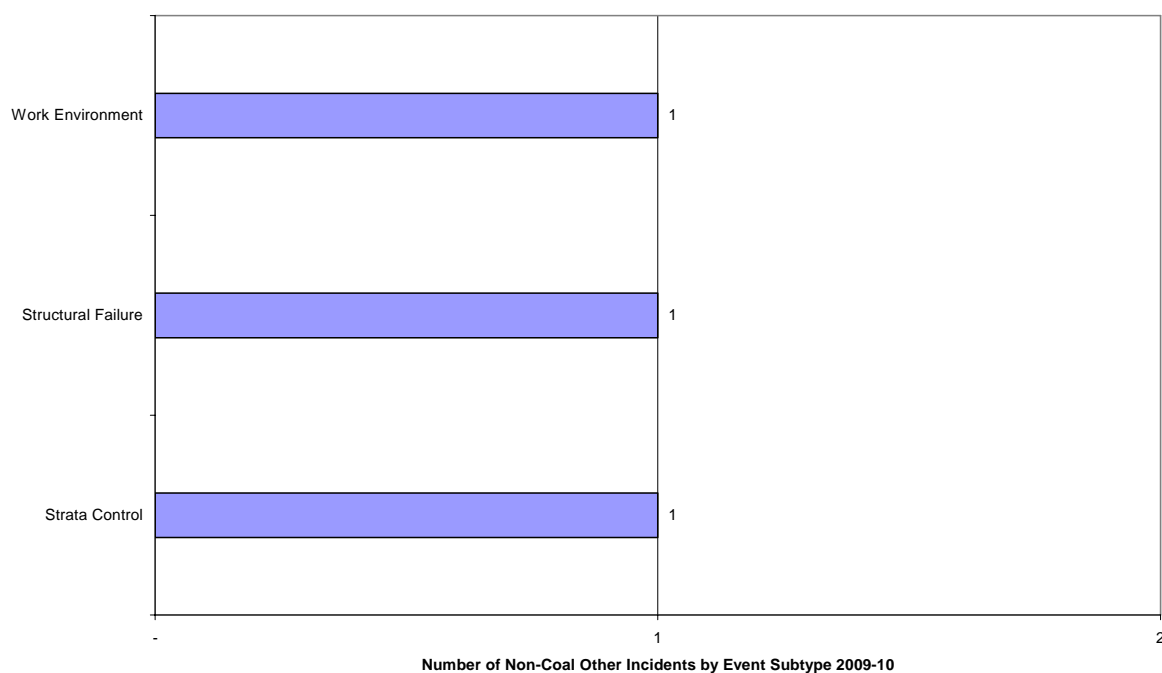
Figure 43

Non-Coal Other Incidents by Event Subtype 1999-00 to 2009-10
NB MHSR 2007 commenced Q2 2008-09

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Work Environment	3	1	-	-	1	-	2	-	1	1	1	10
Mech Equip Mobile	1	1	1	1	2	-	-	1	-	-	-	7
Structural Failure	1	-	-	-	1	-	1	-	-	-	1	4
Explosives	3	-	-	-	-	-	-	-	-	-	-	3
Strata Control	-	-	-	-	-	1	-	-	-	1	1	3
Mech Equip Fixed	-	-	-	1	-	-	-	-	1	-	-	2
Fatality - Non-mining	1	-	-	-	-	-	-	-	-	-	-	1
Water	-	-	-	1	-	-	-	-	-	-	-	1
Total	9	2	1	3	4	1	3	1	2	2	3	31

Figure 44

Non-Coal Other Incidents by Event Subtype 2009-10



3.3.10 Non-Coal Other Incidents by Incident Type

Figure 45

Non-Coal Other Incidents by Incident Type 1999-00 to 2009-10

NB MHSR 2007 commenced Q2 2008-09

Legislation Category	Incident Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
*MIA	Dangerous Incident	-	-	1	1	1	1	1	1	1	-	-	7
	Non Spec Acc Ending in Fat/Injury	3	1	-	-	2	-	-	-	-	-	-	6
	*1994 Emergency MIA	2	-	-	-	-	-	-	-	-	-	-	2
	*Minor Accident MIA	-	-	-	1	-	-	-	-	-	-	-	1
	*Pre Sept 2000 Dangerous Incident MIA	1	-	-	-	-	-	-	-	-	-	-	1
	Total	6	1	1	2	3	1	1	1	1	1	-	-
MHS	MHSR 2007 CI 145	-	-	-	-	-	-	-	-	-	1	1	2
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	-	-	1	1	2
	Total	-	-	-	-	-	-	-	-	-	2	2	4
N/A	High Potential Incident	-	-	-	1	-	-	2	-	1	-	1	5
	Complaint	1	1	-	-	1	-	-	-	-	-	-	3
	Unknown	2	-	-	-	-	-	-	-	-	-	-	2
	Total	3	1	-	1	1	-	2	-	1	-	1	10
Total	9	2	1	3	4	1	3	1	2	2	3	31	

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

3.4 Petroleum (Onshore) Incidents

Petroleum incidents and injuries are notified under the Petroleum (Onshore) Act 1992 Schedule. Consultation with onshore petroleum operators is bringing to light some past incidents and injuries, so this data should be considered preliminary and subject to change.

3.4.1 Petroleum (Onshore) Incidents by Incident Investigation Level

Figure 46
Petroleum (Onshore) Incidents by Incident Investigation Level 1999-00 to 2009-10

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
No Data	-	-	2	-	1	-	-	-	-	-	-	3
Level 1 - No need to attend. Mine to investigate & report.	-	1	-	-	-	-	-	3	-	1	4	9
Level 2 - Official to attend mine.	1	-	-	-	-	-	-	-	-	2	5	8
Level 3 - Detailed investigation suitable for further action	-	-	-	-	-	-	-	-	-	-	1	1
Total	1	1	2	-	1	-	-	3	-	3	10	21

Figure 47
Petroleum (Onshore) Incidents by Incident Investigation Level 1999-00 to 2009-10

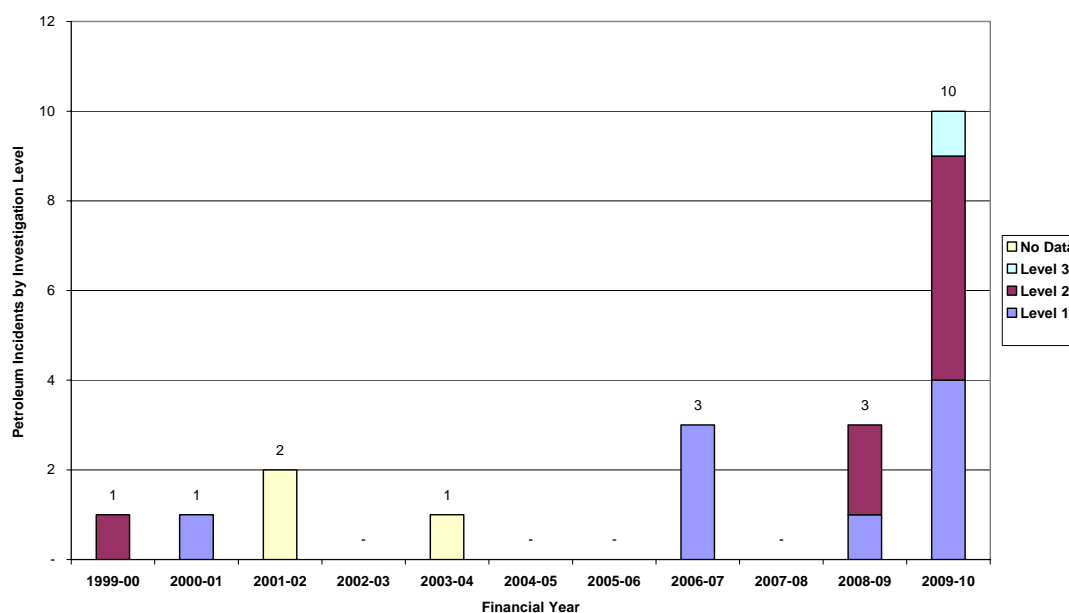
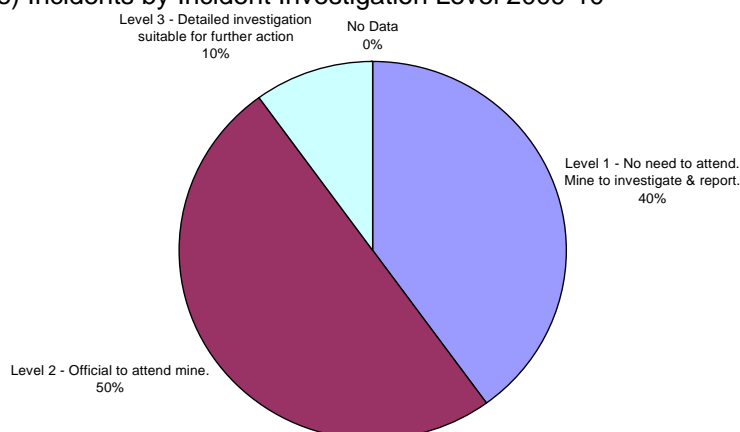


Figure 48
Petroleum (Onshore) Incidents by Incident Investigation Level 2009-10

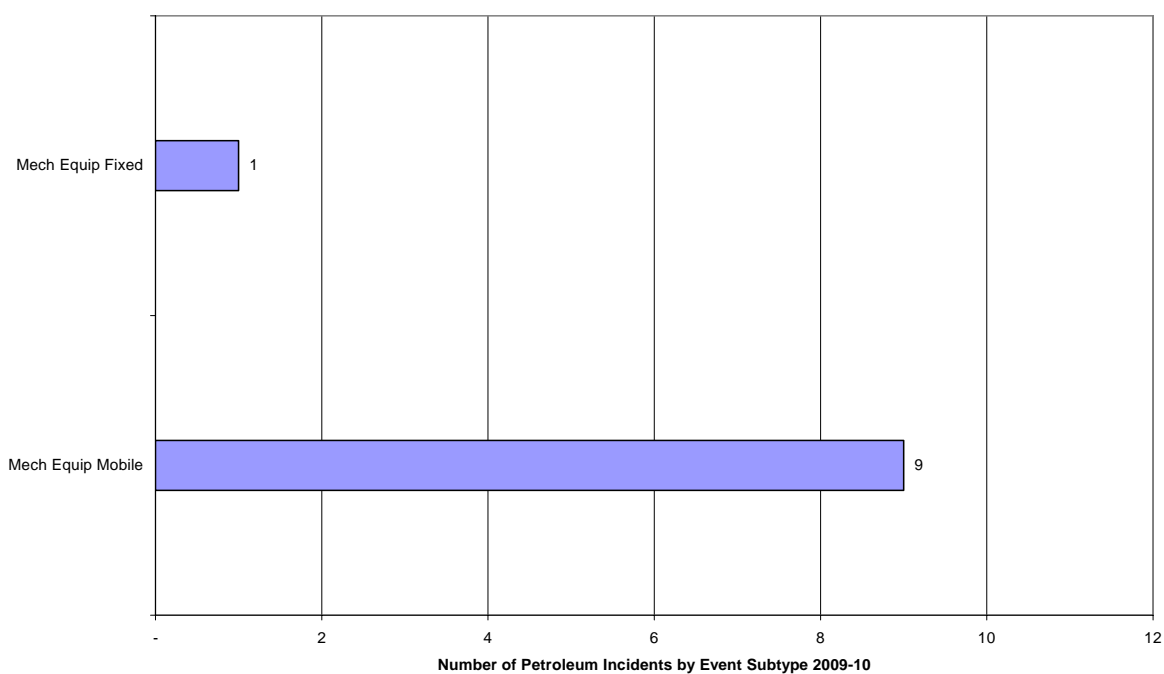


3.4.2 Petroleum (Onshore) Incidents by Event Subtype

Figure 49
Petroleum Incidents by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Mech Equip Mobile	1	-	-	-	1	-	-	2	-	3	9	16
Work Environment	-	-	2	-	-	-	-	1	-	-	-	3
Gas	-	1	-	-	-	-	-	-	-	-	-	1
Mech Equip Fixed	-	-	-	-	-	-	-	-	-	-	1	1
Total	1	1	2	-	1	-	-	3	-	3	10	21

Figure 50
Petroleum Incidents by Event Subtype 2009-10



3.4.3 Petroleum (Onshore) Incidents by Incident Type

Figure 51
Petroleum (Onshore) Incidents by Incident Type 1999-00 to 2009-10

Legislation Category	Incident Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
POASch	POASch 1992	1	1	2	-	1	-	-	3	-	3	10	21
Total		1	1	2	-	1	-	-	3	-	3	10	21

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

3.5 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 I&I NSW, but where the relevant legislation did not require their notification.

3.5.1 High Potential Incidents by Sector

Figure 52

High Potential Incidents by Sector 1999-2000 to 2009-10

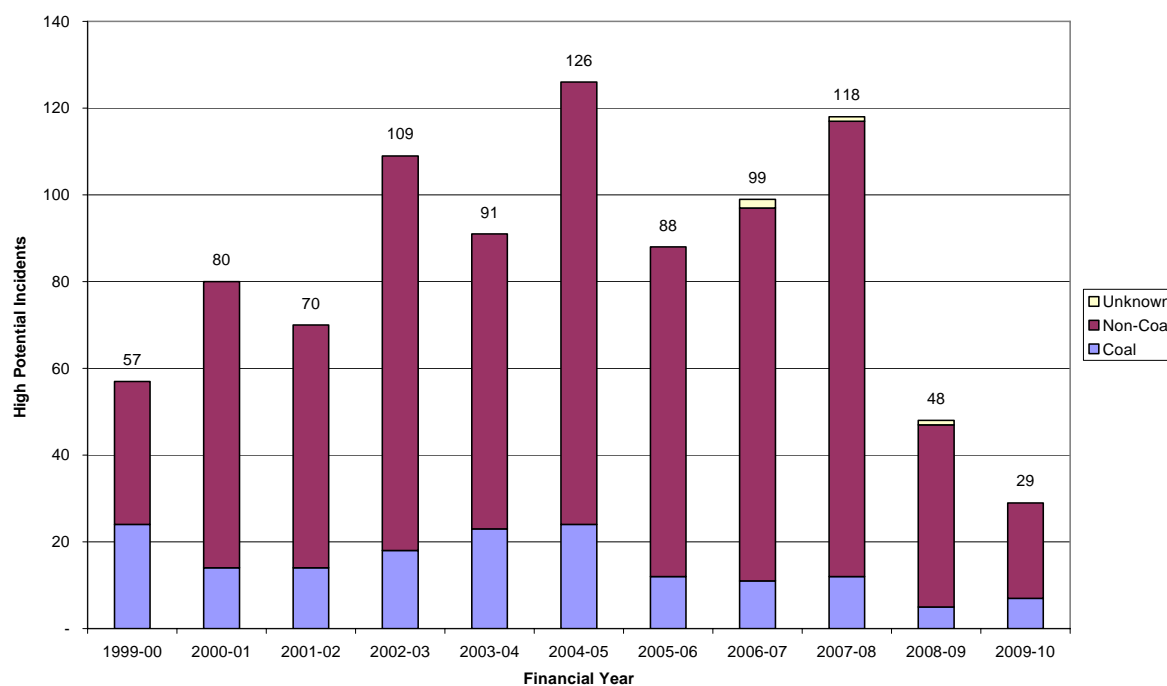
NB "Unknown" refers to incidents reported by non-mine organisations

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Non-Coal	33	66	56	91	68	102	76	86	105	42	22	747
Coal	24	14	14	18	23	24	12	11	12	5	7	164
Unknown	-	-	-	-	-	-	-	2	1	1	-	4
Total	57	80	70	109	91	126	88	99	118	48	29	915

Figure 53

High Potential Incidents by Sector 1999-2000 to 2009-10

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



3.5.2 High Potential Incidents by Incident Investigation Level

Figure 54

High Potential Incidents by Incident Investigation Level 1999-00 to 2009-10

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
No Data	31	24	16	49	34	60	10	-	-	-	-	224
Level 1 - No need to attend. Mine to investigate & report.	16	48	44	48	45	44	58	61	68	31	18	481
Level 2 - Official to attend mine.	6	7	9	10	9	20	19	38	50	17	11	196
Level 3 - Detailed investigation suitable for further action	4	1	1	2	3	2	1	-	-	-	-	14
Total	57	80	70	109	91	126	88	99	118	48	29	915

Figure 55

High Potential Incidents by Incident Investigation Level 1999-00 to 2009-10

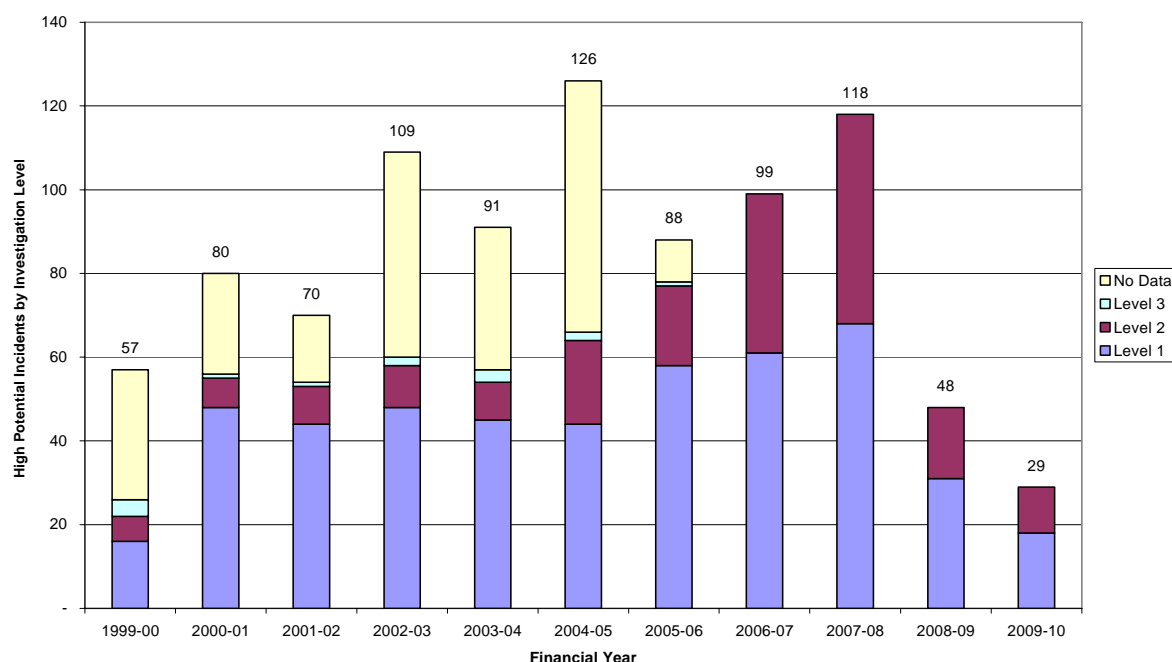
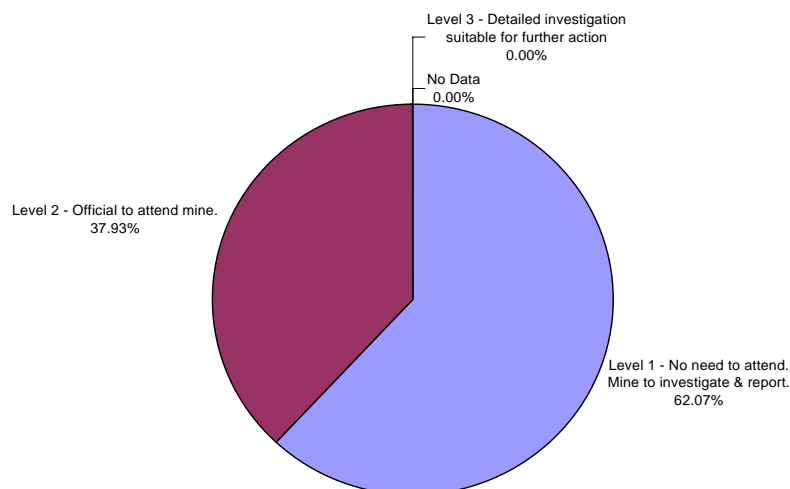


Figure 56

High Potential Incidents by Incident Investigation Level 2009-10

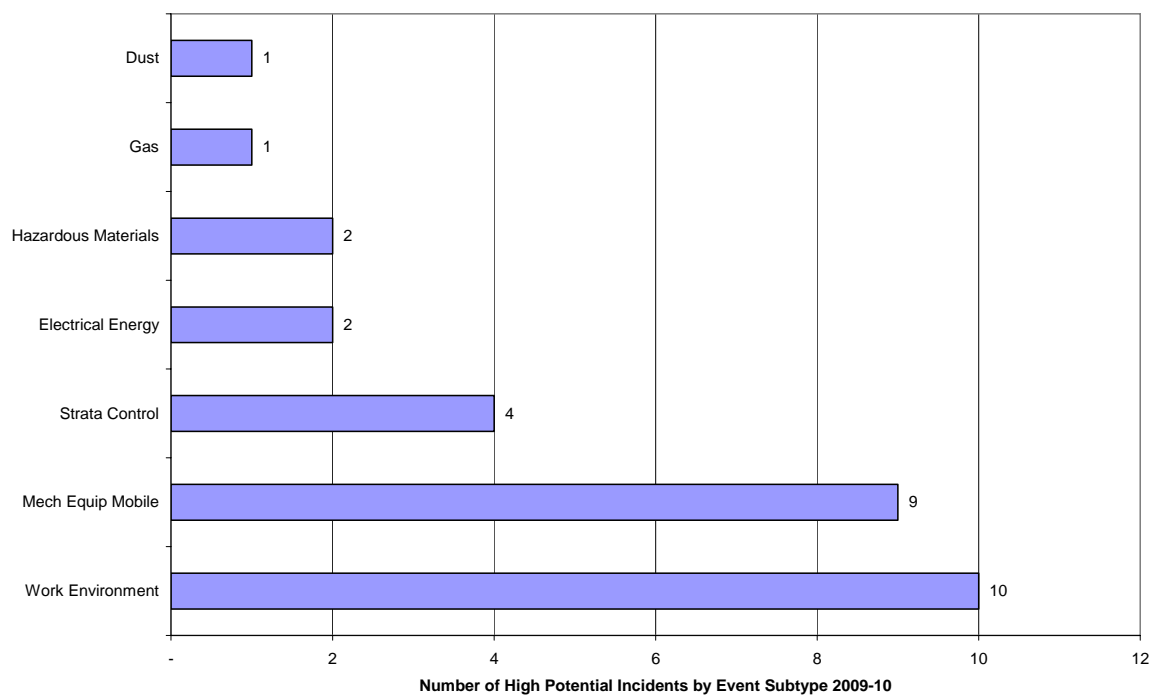


3.5.3 High Potential Incidents by Event Subtype

Figure 57
High Potential Incidents by Event Subtype 1999-2000 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Mech Equip Mobile	27	31	28	43	38	68	46	53	52	24	9	419
Electrical Energy	11	14	13	12	19	11	12	16	16	7	2	133
Work Environment	3	11	5	9	7	12	6	11	19	4	10	97
Strata Control	-	5	3	13	4	12	8	4	9	4	4	66
Explosives	4	6	7	10	5	11	7	8	5	2	-	65
Mech Equip Fixed	4	7	5	11	12	6	4	3	10	3	-	65
Hazardous Materials	5	3	2	2	-	1	1	1	-	-	2	17
Gas	-	-	2	2	3	1	1	1	4	-	1	15
Structural Failure	1	1	2	2	-	2	2	-	1	1	-	12
Water	-	1	1	3	1	1	1	1	1	-	-	10
Dust	2	1	1	2	1	1	-	-	-	1	1	10
Self Heating	-	-	1	-	1	-	-	1	1	2	-	6
Total	57	80	70	109	91	126	88	99	118	48	29	915

Figure 58
High Potential Incidents by Event Subtype 2009-10



3.6 Complaint Incidents

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

3.6.1 Complaint Incidents by Sector

Figure 59

Complaint Incidents by Sector 1999-00 to 2009-10

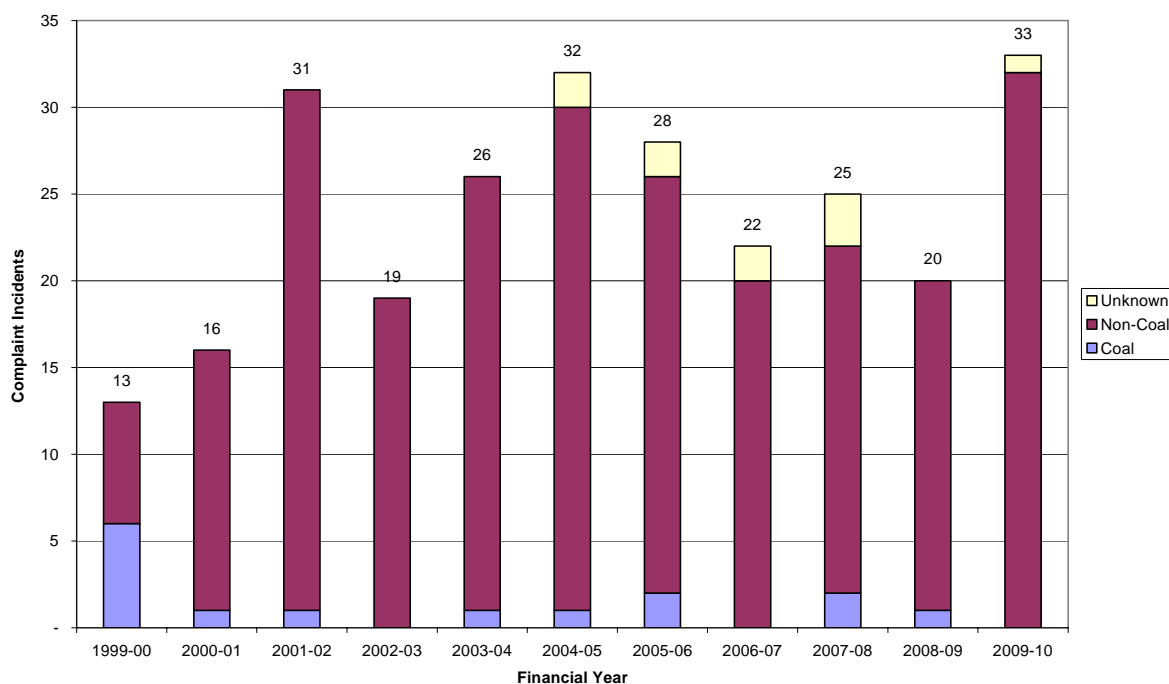
NB "Unknown" refers to incidents reported by non-mine organisations

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Non-Coal	7	15	30	19	25	29	24	20	20	19	32	240
Coal	6	1	1	-	1	1	2	-	2	1	-	15
Unknown	-	-	-	-	-	2	2	2	3	-	1	10
Total	13	16	31	19	26	32	28	22	25	20	33	265

Figure 60

Complaint Incidents by Sector 1999-00 to 2009-10

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



3.6.2 Complaint Incidents by Incident Investigation Level

Figure 61
Complaint Incidents by Incident Investigation Level 1999-00 to 2009-10

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
No Data	10	12	28	12	18	26	6	-	-	-	-	112
Level 1 - No need to attend. Mine to investigate & report.	2	4	2	3	4	3	15	9	10	5	13	70
Level 2 - Official to attend mine.	-	-	1	2	1	3	7	13	15	15	20	77
Level 3 - Detailed investigation suitable for further action	1	-	-	2	3	-	-	-	-	-	-	6
Total	13	16	31	19	26	32	28	22	25	20	33	265

Figure 62
Complaint Incidents by Incident Investigation Level 1999-00 to 2009-10

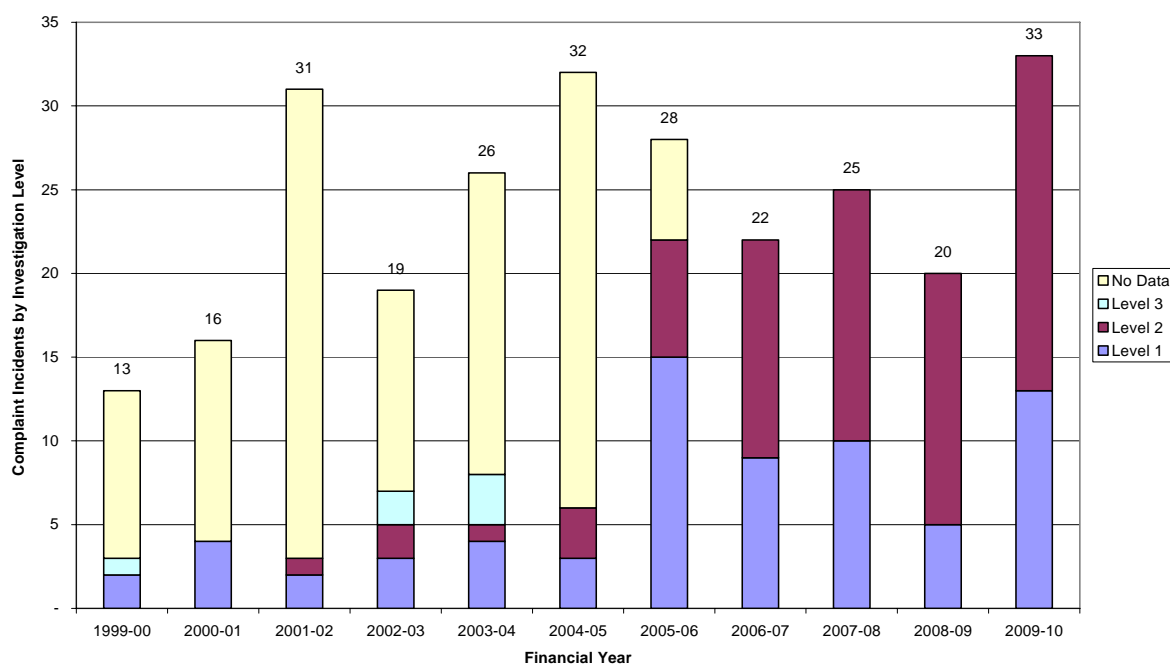
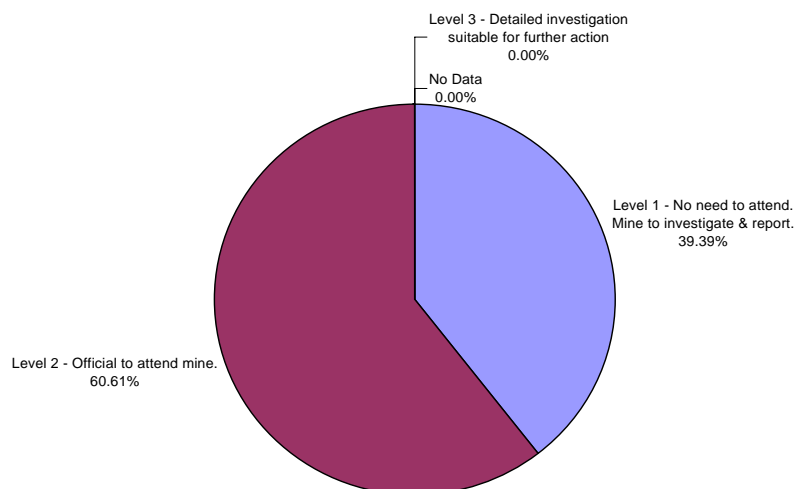


Figure 63
Complaint Incidents by Incident Investigation Level 2009-10

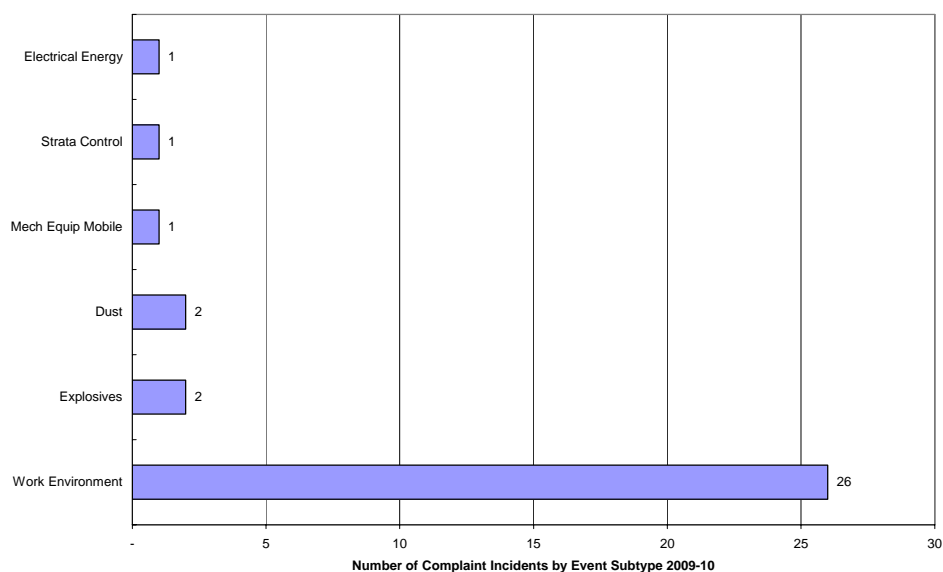


3.6.3 Complaint Incidents by Event Subtype

Figure 64
Complaint Incidents by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Work Environment	5	11	19	10	16	22	19	17	15	11	26	171
Explosives	3	1	6	6	2	5	3	5	2	4	2	39
Mech Equip Mobile	2	3	2	1	7	3	3	-	5	3	1	30
Strata Control	1	-	-	-	1	-	1	-	1	1	1	6
Electrical Energy	2	-	1	-	-	-	-	-	-	-	1	4
Dust	-	-	1	-	-	-	-	-	-	1	2	4
Structural Failure	-	-	-	1	-	-	2	-	-	-	-	3
Gas	-	-	-	-	-	1	-	-	1	-	-	2
Hazardous Materials	-	-	1	-	-	-	-	-	1	-	-	2
Mech Equip Fixed	-	-	1	-	-	1	-	-	-	-	-	2
Water	-	1	-	1	-	-	-	-	-	-	-	2
Total	13	16	31	19	26	32	28	22	25	20	33	265

Figure 65
Complaint Incidents by Event Subtype 2009-10



4 INJURIES

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

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, 2 and 3).

Important note regarding the source of workforce numbers, hours worked and lost time injuries

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

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

Medical Treatment Injuries and Restricted Duty Injuries were sourced from Quarterly Workplace Injury Reports reported to I&I NSW 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.

4.1 Workforce Numbers and Hours Worked

This section provides details of workforce numbers and hours worked in the Coal, Metalliferous and Extractives mining sectors only, as workforce numbers and 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 I&I NSW 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.

Note that within this analysis of workforce size the term “employees” covers both employees and contractors. It is the sum of direct employees of a sector plus the full-time equivalent (FTE) number of indirect employees calculated from the total contractor hours worked in that sector.

- In the Coal sector employee numbers rose by 4.5% and hours worked rose by 11.1% from 2008-09 to 2009-10. Both have more than doubled since 2000-01.
- In Underground Coal employee numbers rose by 1.5% and hours worked rose by 8% from 2008-09 to 2009-10.
- In Surface Coal employee numbers rose by 6.8% and hours worked rose by 14% from 2008-09 to 2009-10.
- In the Metalliferous sector employee numbers fell by 2.4% and hours worked fell by 4% from 2008-09 to 2009-10.
- In the Extractives sector employee numbers fell by 14.9% and hours worked fell by 15.7% from 2008-09 to 2009-10.
- Overall for the Metalliferous and Extractives sector employee numbers fell by 3.4% and hours worked fell by 7.5% from 2008-09 to 2009-10.

Figure 66
NSW Coal Employees and Hours Worked 1999-00 to 2009-10

Financial Year	Coal		
	Employees	Hours Worked	Hours Worked per Employee
1999-00	9,960	19,651,800	1,973
2000-01	9,606	18,657,900	1,942
2001-02	10,147	19,675,800	1,939
2002-03	10,165	19,220,400	1,891
2003-04	10,036	19,626,500	1,956
2004-05	10,761	21,288,500	1,978
2005-06	12,173	25,174,010	2,068
2006-07	13,166	26,943,461	2,046
2007-08	16,659	31,798,286	1,909
2008-09	20,788	36,752,228	1,768
2009-10	21,714	40,838,103	1,881
Average	13,198	25,420,635	1,941

Figure 67
NSW Metalliferous and Extractives Employees and Hours Worked 1999-00 to 2009-10

Financial Year	Metalliferous			Extractives			Metalliferous & Extractives Total		
	Employees	Hours Worked	Hours Worked per Employee	Employees	Hours Worked	Hours Worked per Employee	Employees	Hours Worked	Hours Worked per Employee
1999-00	2,304	4,979,052	2,161	3,516	7,598,616	2,161	5,820	12,577,668	2,161
2000-01	2,626	6,129,075	2,334	1,948	3,829,184	1,966	4,574	9,958,259	2,177
2001-02	2,556	5,607,864	2,194	1,561	2,786,853	1,785	4,117	8,394,717	2,039
2002-03	2,972	6,506,897	2,189	1,231	2,298,646	1,867	4,203	8,805,543	2,095
2003-04	3,621	9,318,834	2,574	1,129	2,020,910	1,790	4,750	11,339,744	2,387
2004-05	3,153	7,243,422	2,297	1,406	2,444,727	1,739	4,559	9,688,149	2,125
2005-06	3,268	7,035,215	2,153	1,942	3,252,521	1,675	5,210	10,287,736	1,975
2006-07	3,816	8,174,424	2,142	2,306	4,010,397	1,739	6,122	12,184,821	1,990
2007-08	4,198	8,991,866	2,142	2,537	4,411,437	1,739	6,734	13,403,303	1,990
2008-09	6,092	10,426,492	1,712	4,043	4,338,791	1,073	10,135	14,765,283	1,457
2009-10	5,945	10,002,110	1,682	3,844	3,658,585	952	9,789	13,660,695	1,396
Average	3,686	7,674,114	2,144	2,315	3,695,515	1,681	6,001	11,369,629	1,981

Figure 68
NSW Coal, Metalliferous and Extractives Total Employees and Hours Worked 1999-00 to 2009-10

Financial Year	Coal, Metalliferous and Extractives Total		
	Employees	Hours Worked	Hours Worked per Employee
1999-00	15,780	32,229,468	2,042
2000-01	14,180	28,616,159	2,018
2001-02	14,264	28,070,517	1,968
2002-03	14,368	28,025,943	1,951
2003-04	14,786	30,966,244	2,094
2004-05	15,320	30,976,649	2,022
2005-06	17,383	35,461,746	2,040
2006-07	19,288	39,128,282	2,029
2007-08	23,393	45,201,589	1,932
2008-09	30,923	51,517,511	1,666
2009-10	31,503	54,498,798	1,730
Average	19,199	36,790,264	1,954

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

4.2 Fatalities

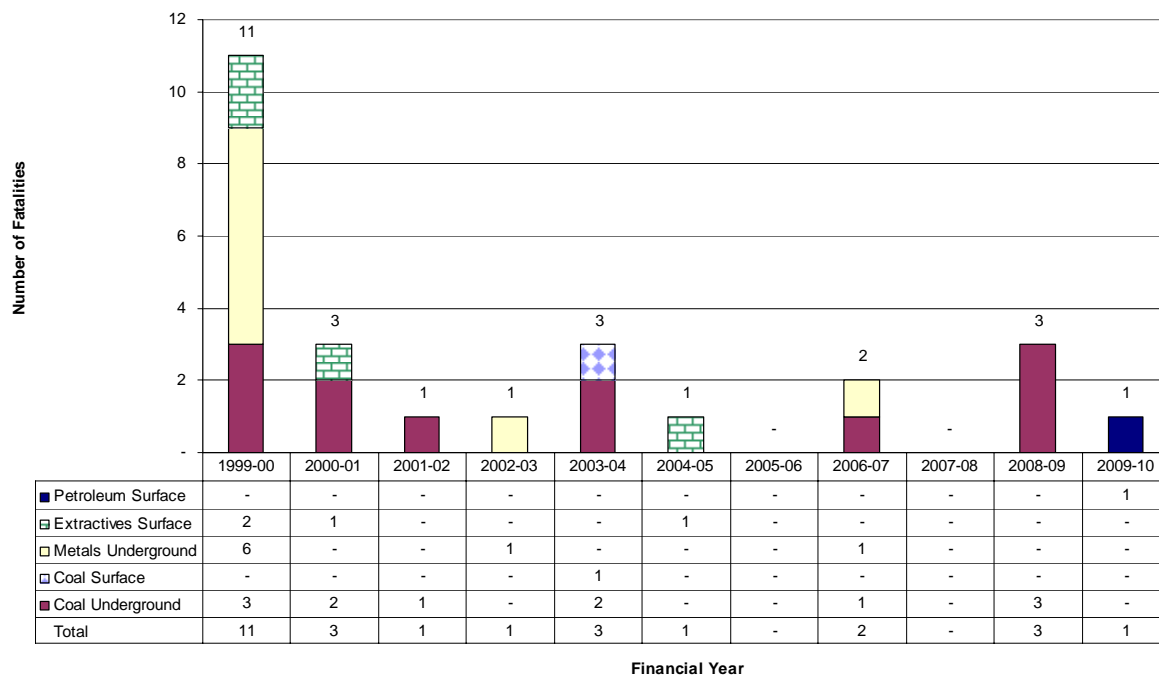
This section provides a breakdown of fatalities in the NSW Mining and Extractives industry.

- While the Coal, Metalliferous and Extractives sectors were fatality free in 2009-10, there was one fatality in the Petroleum (Onshore) sector.
 - 1 August 2009 - Sub contractor fatally injured while assisting contractor to extract pipeline following failed attempt to lay gas production pipeline beneath creek. High tensile chain broke while PE pipeline was under tension. Recoiling pipe struck the contractor causing fatal head injuries.
- There were five fatalities in the NSW Mining and Extractives industry in the five years to June 2010, compared to 9 and 30 deaths respectively in the previous two five year periods.
- The NSW Mining and Extractives industry as a whole has had five twelve month periods without a fatality since 2002.
- The Coal sector has reported four fatalities in the past five years, compared to six in the previous five years.
- The Coal surface sector was fatality free for the sixth consecutive year and for the tenth time in twelve years.
- The Metalliferous surface sector has been fatality free for sixteen years.
- The Metalliferous underground sector was fatality free for the third consecutive year and for the eighth time in eleven years. There was one fatality in both of the past two five year periods.
- The Extractives sector was fatality free for the fifth consecutive year and for the eighth time in ten years. There were zero fatalities in the past five years, compared to two in the previous five years.

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

4.2.1 Fatalities by Sector

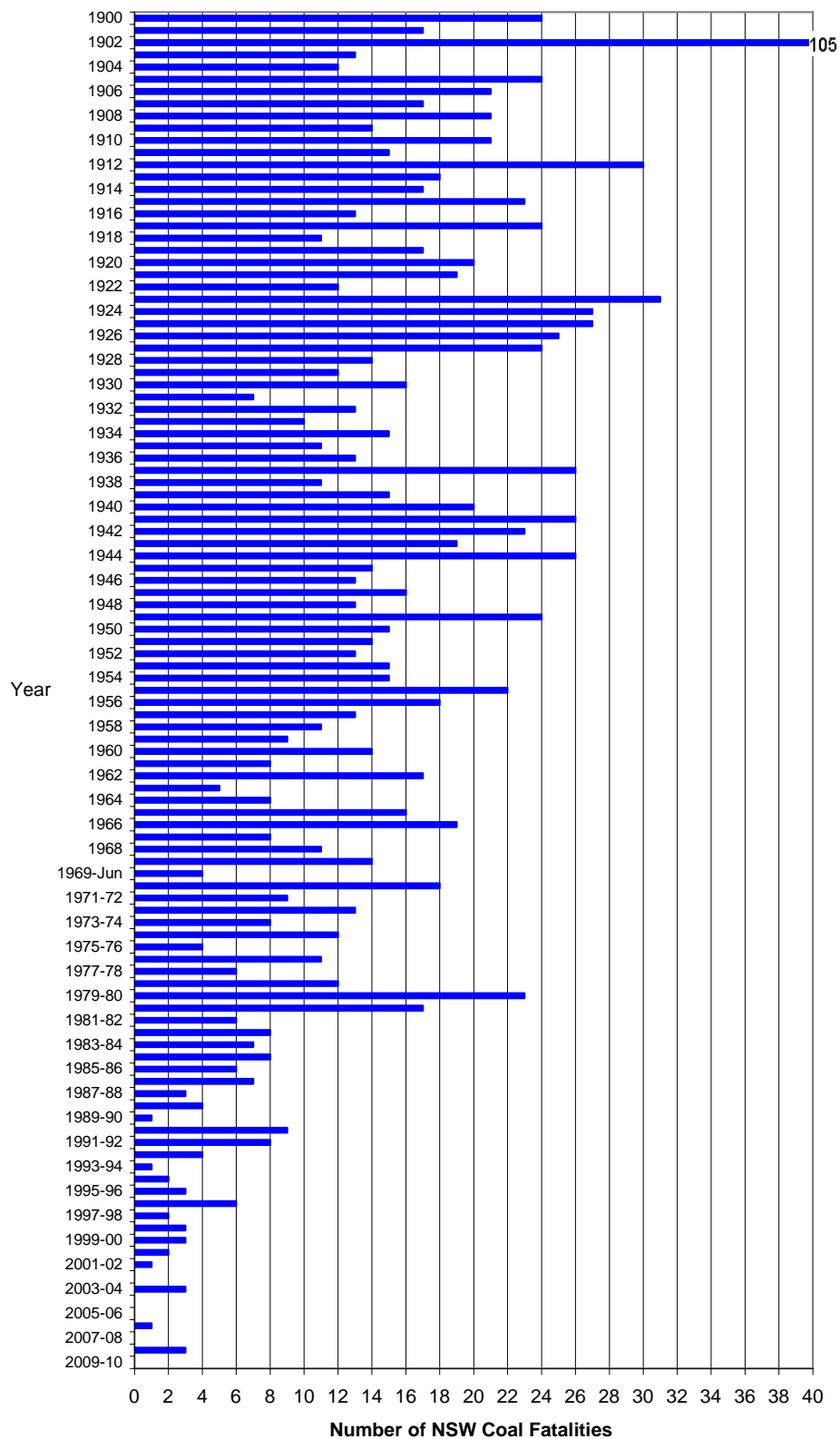
Figure 69
NSW Coal, Metalliferous & Extractives and Petroleum Fatalities by Sector 1999-99 to 2009-10



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

4.2.2 Coal Fatalities since 1900

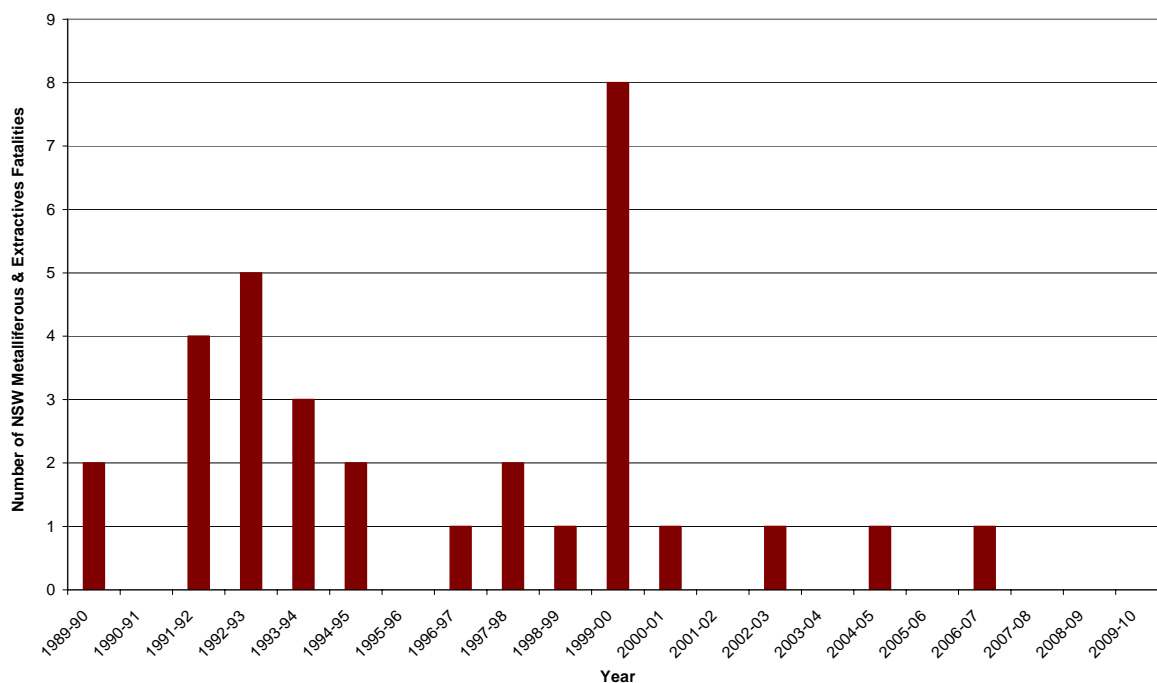
Figure 70
NSW Coal Annual Fatalities 1900 to 2009-10



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

Figure 71

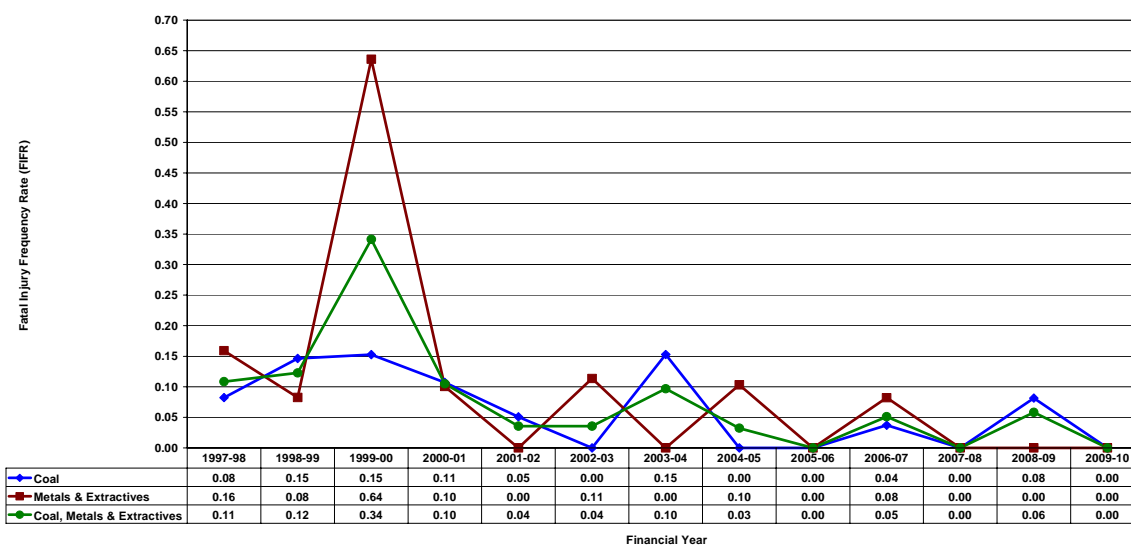
NSW Non-Coal Metalliferous & Extractives Annual Fatalities 1989-90 to 2009-10



4.2.4 Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2009-10

Figure 72

NSW Coal, Metalliferous & Extractives Mining Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2009-10

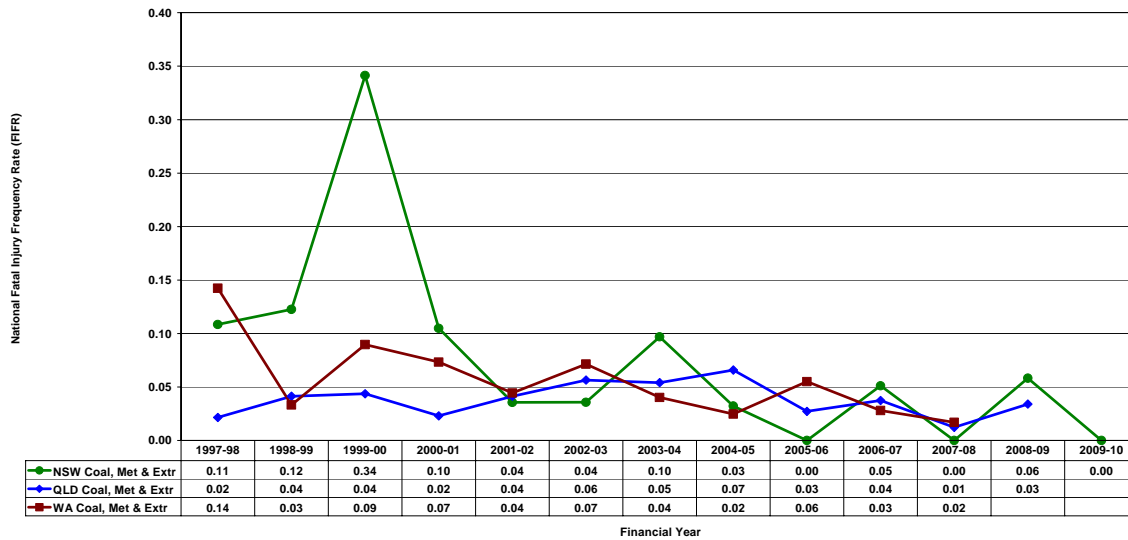


Refer to Figure 1 for Five Year Average Fatal Injury Frequency Rate 1997-98 to 2009-10

4.2.5 Annual Fatal Injury Frequency Rate (FIFR) National Comparison 1997-98 to 2009-10

Figure 73

NSW, QLD and WA Coal, Metalliferous & Extractives Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2009-10

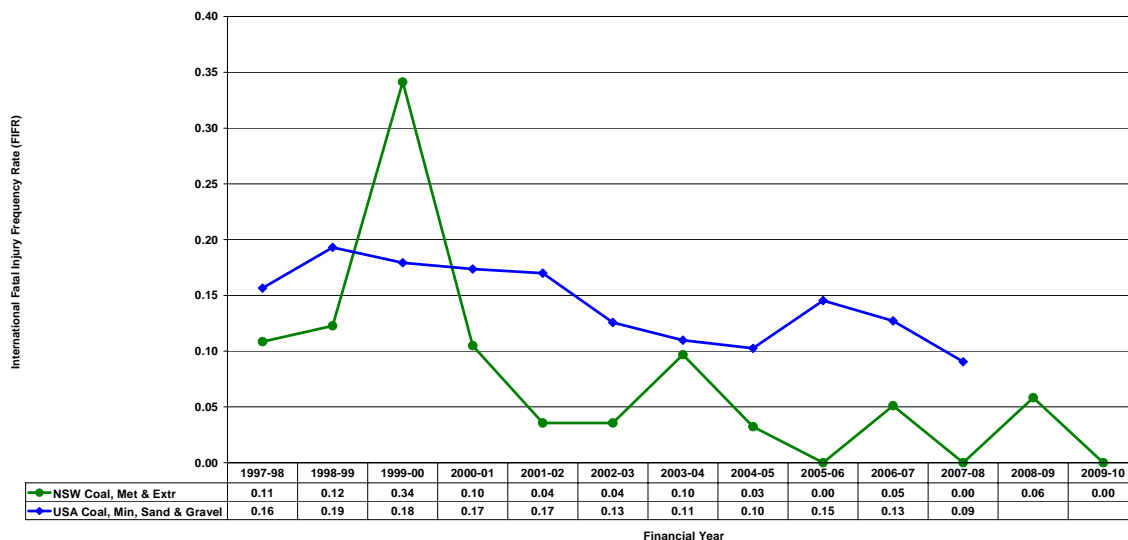


Refer to Appendix B.9 for Sources of Data

4.2.6 Annual Fatal Injury Frequency Rate (FIFR) International Comparison 1997-98 to 2009-10

Figure 74

NSW and USA Coal, Metalliferous & Extractives Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2009-10



Refer to Appendix B.9 for Sources of Data

4.3 Lost Time Injuries (LTIs)

This section provides a breakdown of lost time injuries 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 I&I NSW 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.

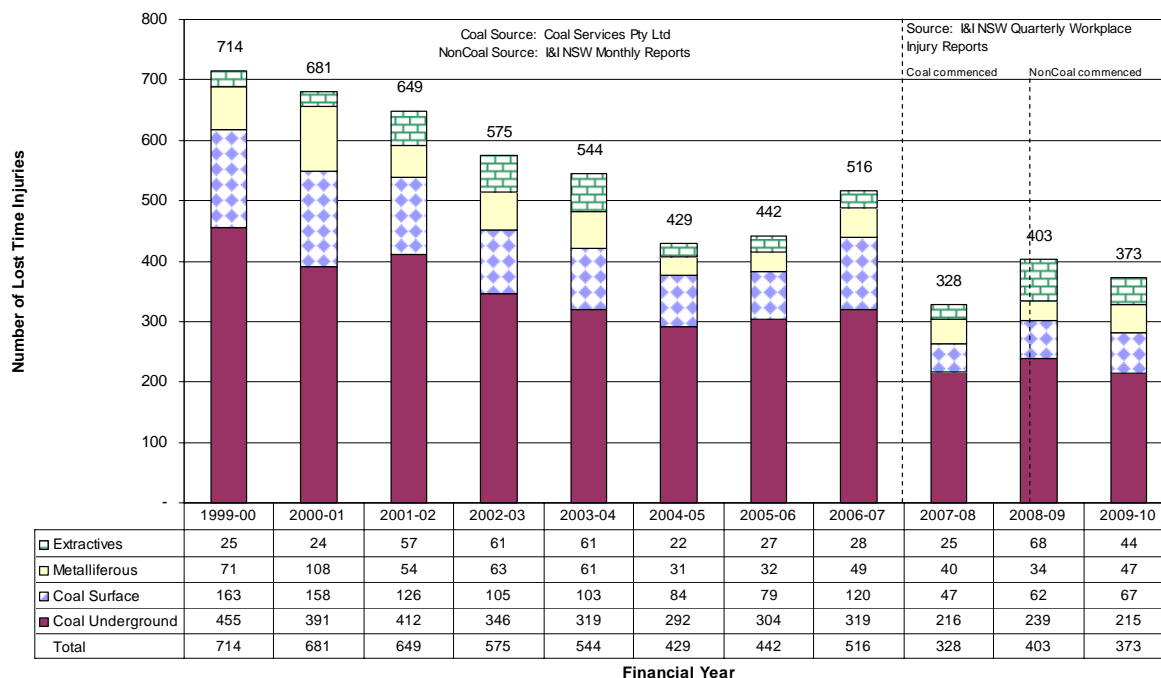
Refer to "*Important note regarding the source of workforce numbers, hours worked and lost time injuries*" in **Section 4 Injuries**

- Over two thirds of all LTIs occurred at underground operations in 2009-10.
- In 2009-10, the Coal, Metalliferous & Extractives LTIFR of 6.84 was 28% below the five year average of 9.51.
- The number of Coal sector LTIs fell by 6.3% from 301 last year to 282 in 2009-10.
- The NSW Coal sector LTIFR fell by 15.6% from 8.19 last year to 6.91 in 2009-10.
- The number of LTIs in the Metalliferous & Extractives sector decreased by 10.8% from 102 last year to 91 in 2009-10, and the LTIFR fell by 3.6%
- From 2008-09 to 2009-10, Metalliferous LTIs rose 38.3% to a three-year high, while Extractives LTIs fell 35.3% from last year's dramatic spike in Extractives LTIs
- In 2009-10, the Metalliferous & Extractives sector LTIFR of 6.66 was 8.6% above the five year average of 6.09

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

4.3.1 Lost Time Injuries by Sector

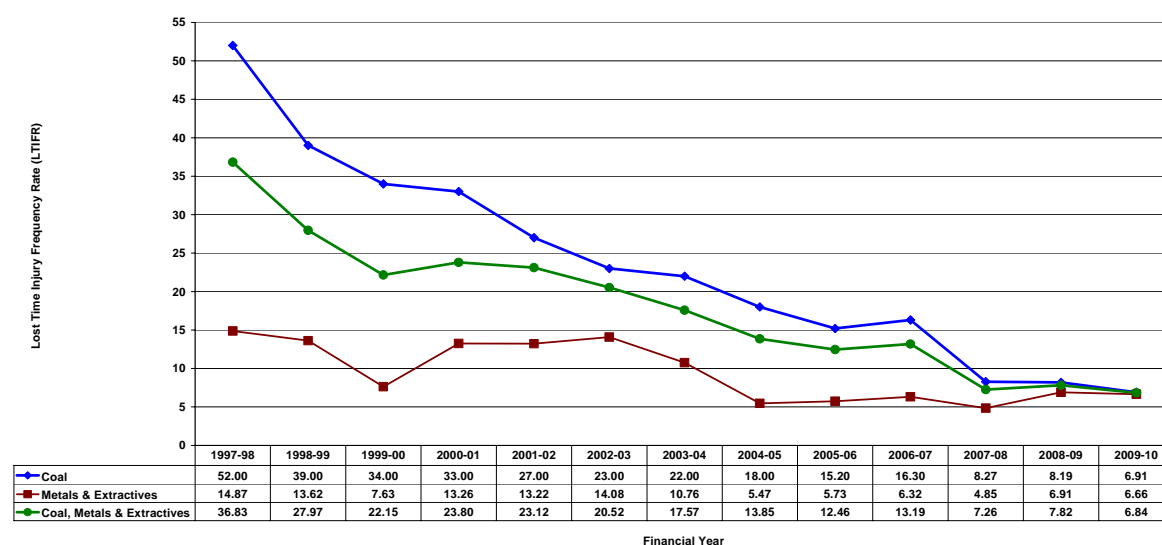
Figure 75
NSW Coal, Metalliferous & Extractives Lost Time Injuries by Sector 1999-00 to 2009-10



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

4.3.2 Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10

Figure 76
NSW Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



Refer to Figure 2 for Five Year Average Lost Time Injury Frequency Rate 1997-98 to 2009-10

Figure 77
NSW Coal Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10

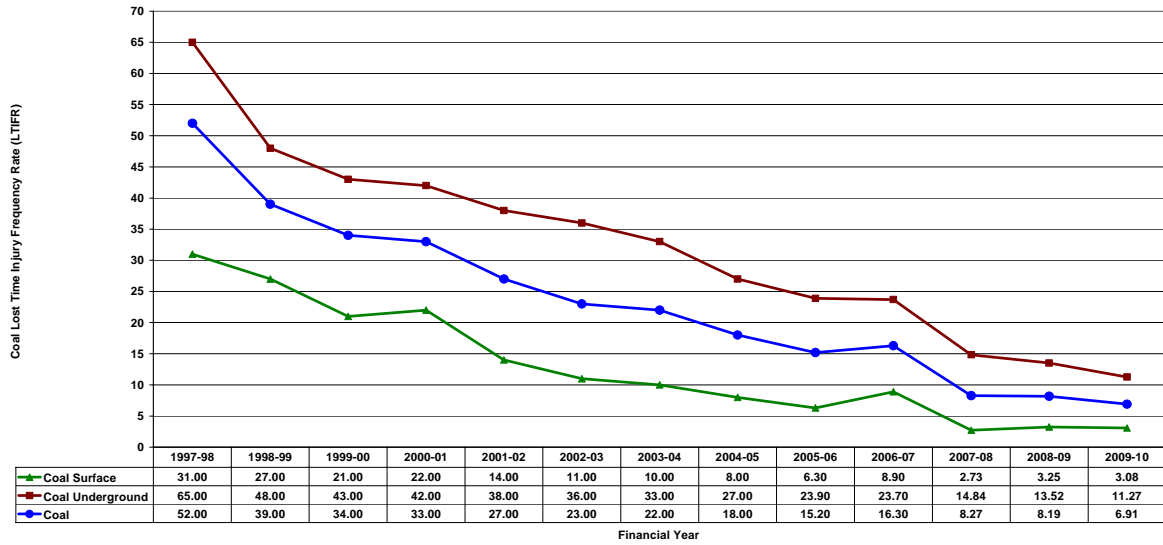
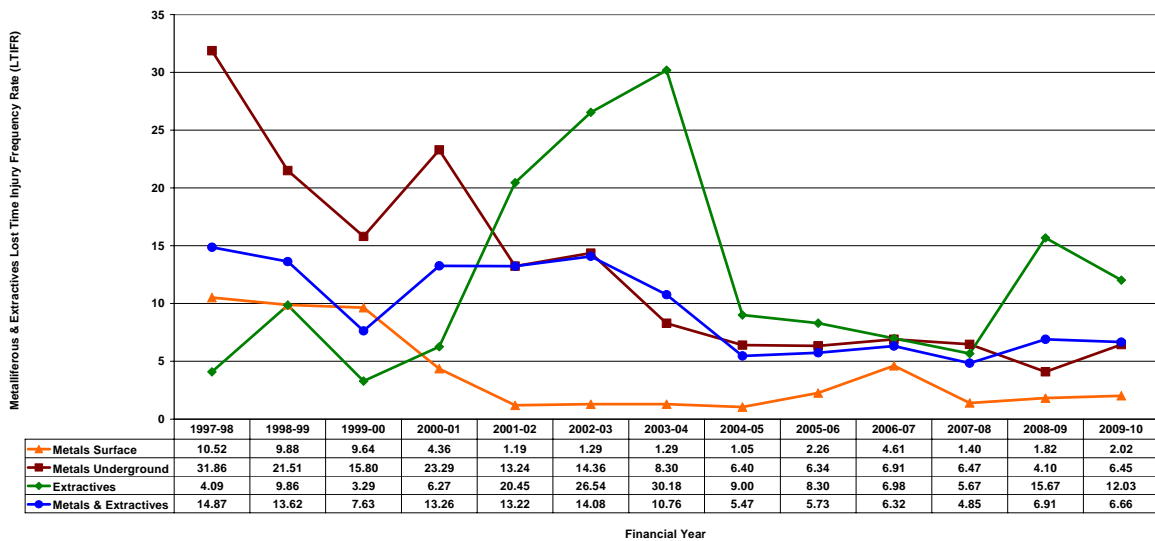


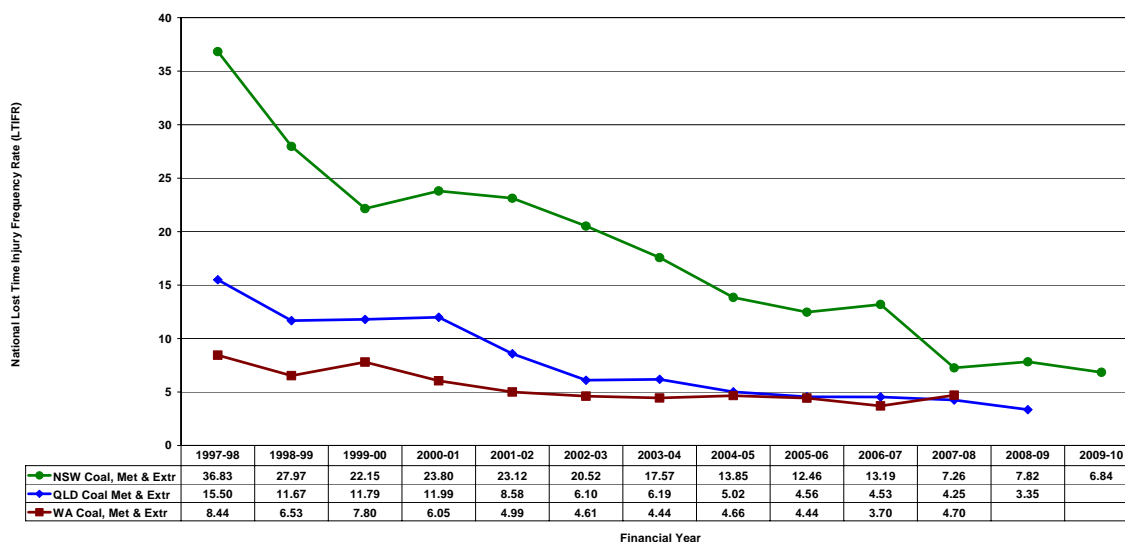
Figure 78
NSW Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



4.3.3 Annual Lost Time Injury Frequency Rate (LTIFR) National Comparison 1997-98 to 2009-10

Figure 79

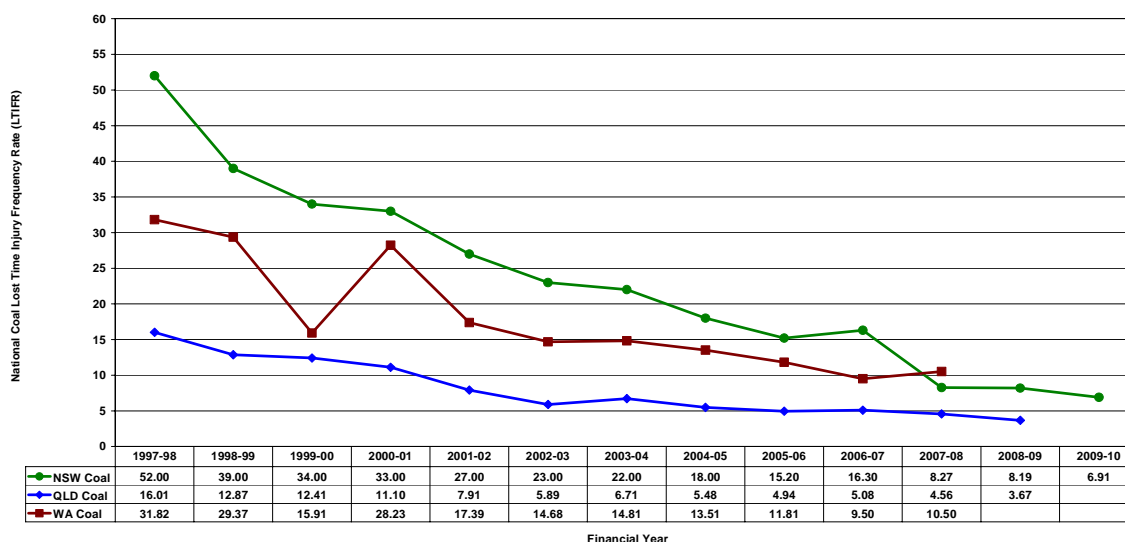
NSW, QLD and WA Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



Refer to Appendix B.9 for Sources of Data

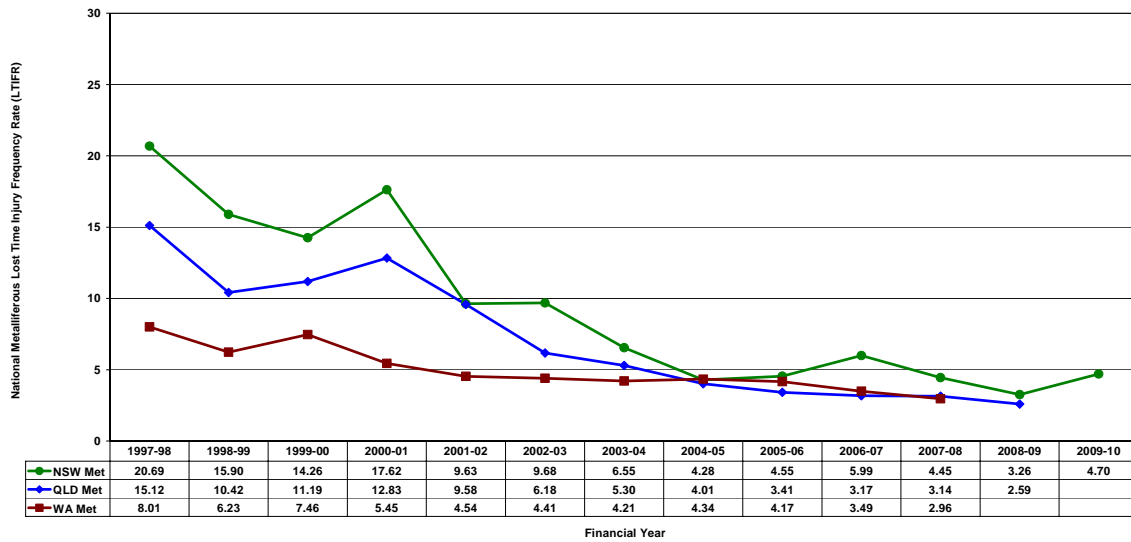
Figure 80

NSW, QLD and WA National Coal Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



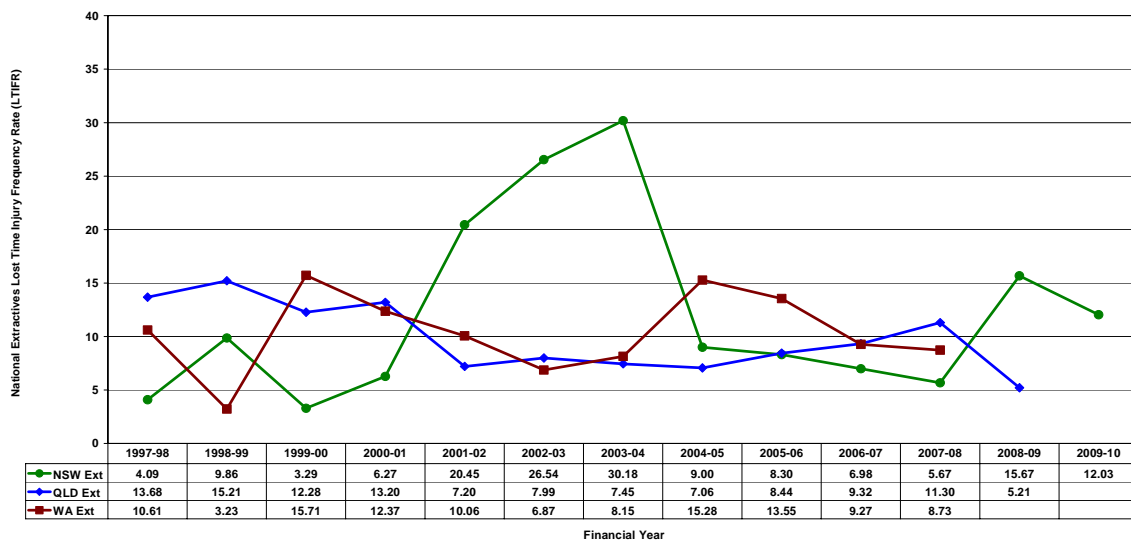
Refer to Appendix B.9 for Sources of Data

Figure 81
NSW, QLD and WA Metalliferous Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



Refer to Appendix B.9 for Sources of Data

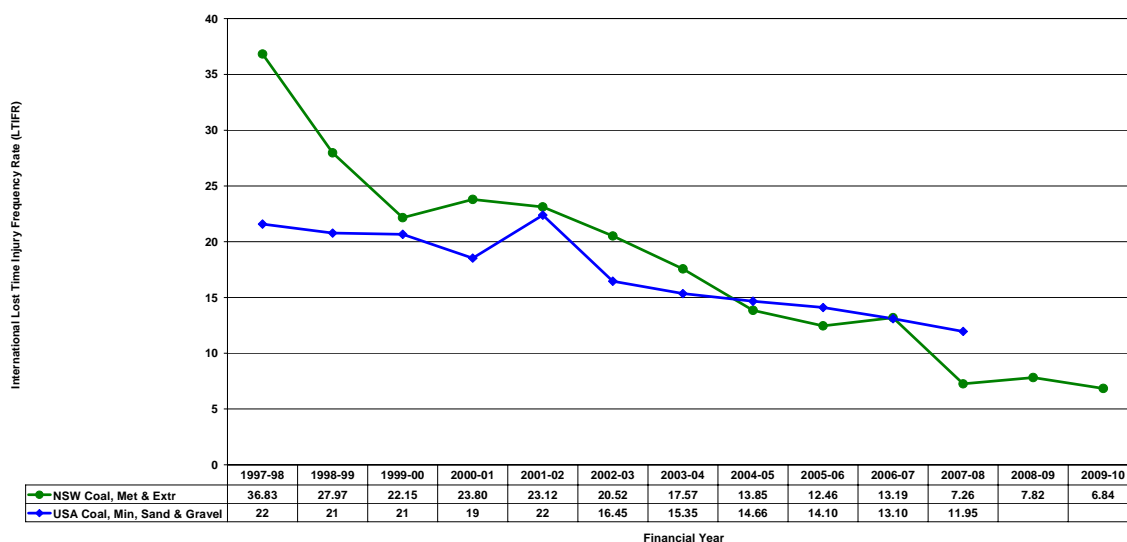
Figure 82
NSW, QLD and WA Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



Refer to Appendix B.9 for Sources of Data

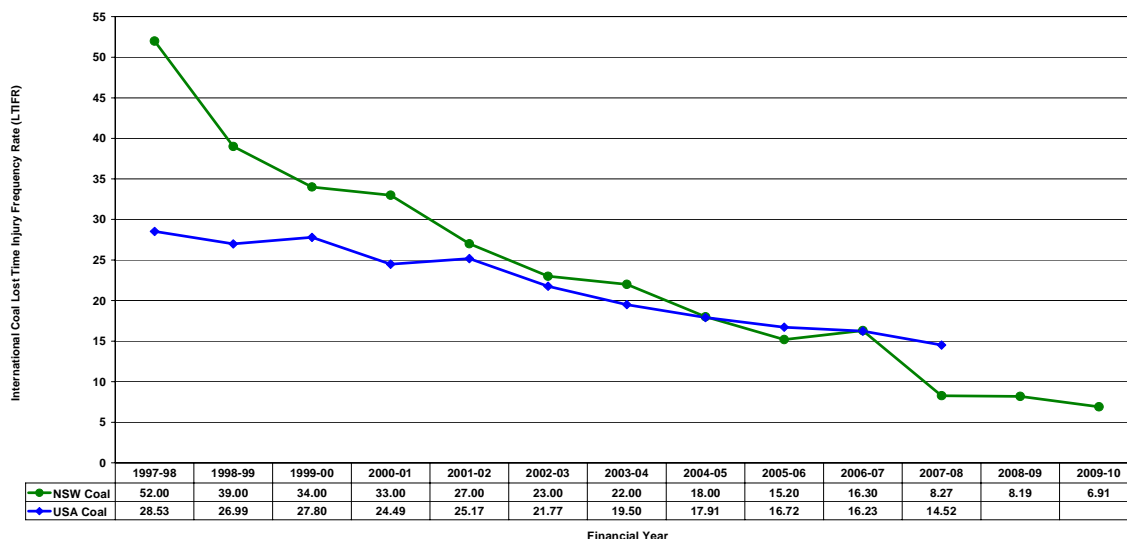
4.3.4 Annual Lost Time Injury Frequency Rate (LTIFR) International Comparison 1997-98 to 2009-10

Figure 83
NSW and USA Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



Refer to Appendix B.9 for Sources of Data

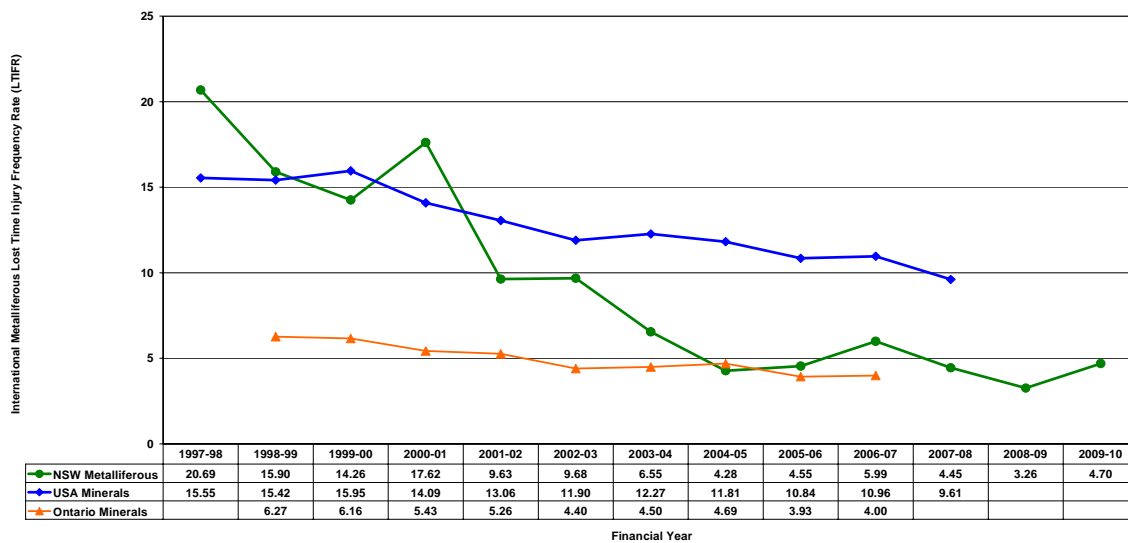
Figure 84
NSW and USA Coal Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



Refer to Appendix B.9 for Sources of Data

Figure 85

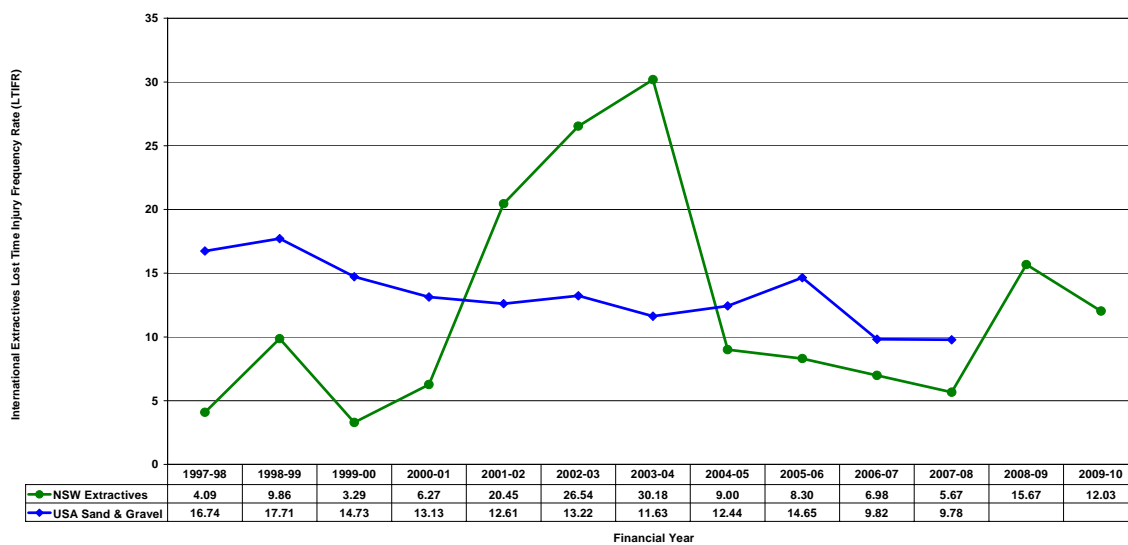
NSW, USA and Ontario Metalliferous Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



Refer to Appendix B.9 for Sources of Data

Figure 86

NSW and USA Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2009-10



Refer to Appendix B.9 for Sources of Data

4.4 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 I&I NSW 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 Appendix A.5 for further details of Total Recordable Injuries by Sector and Operation Type.

4.4.1 Total Recordable Injuries by Sector

Figure 87

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Sector 2007-08 to 2009-10



4.4.2 Total Recordable Injuries by Injury Type

Figure 88

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2009-10

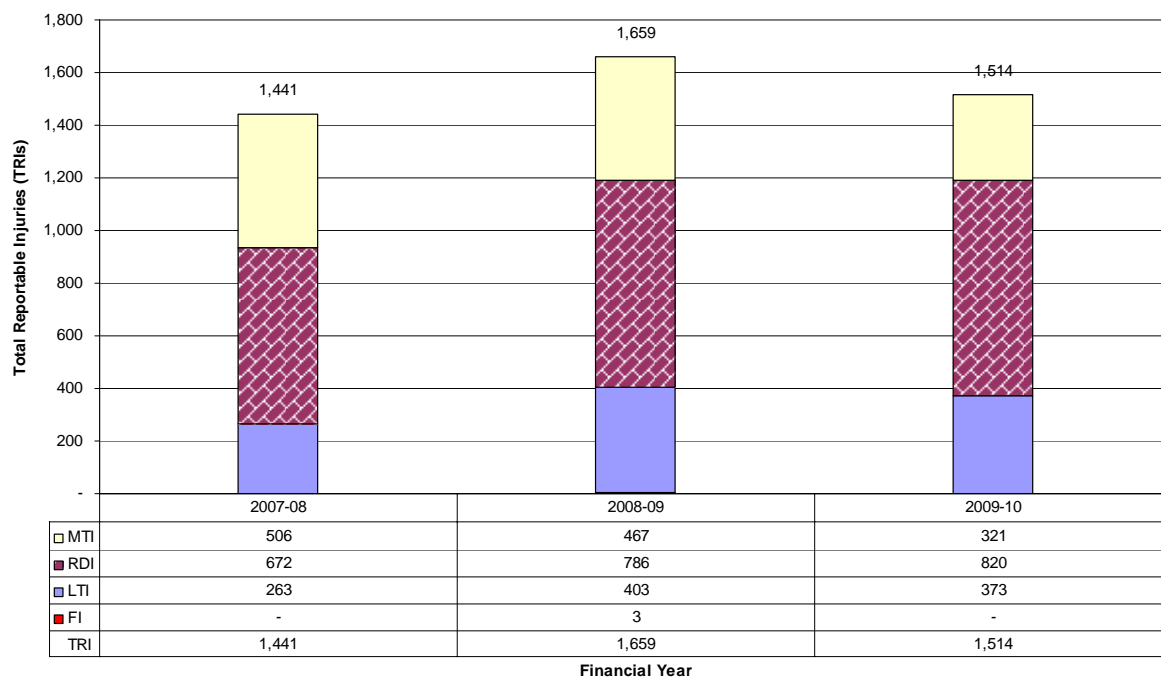


Figure 89

NSW Coal Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2009-10

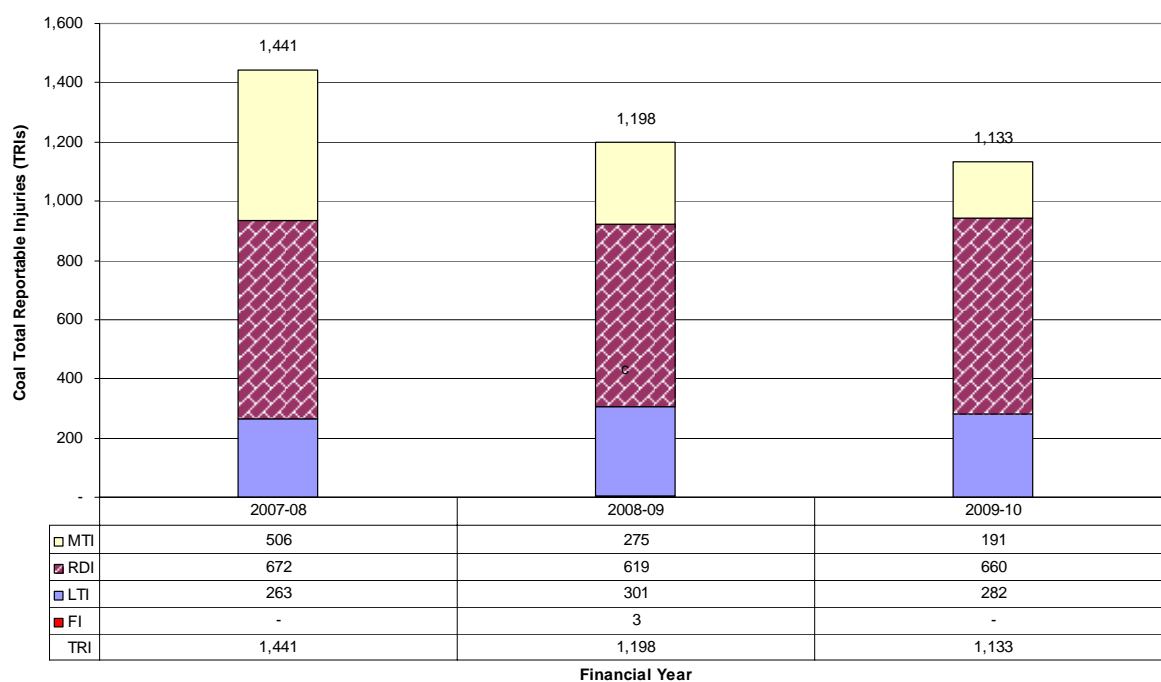
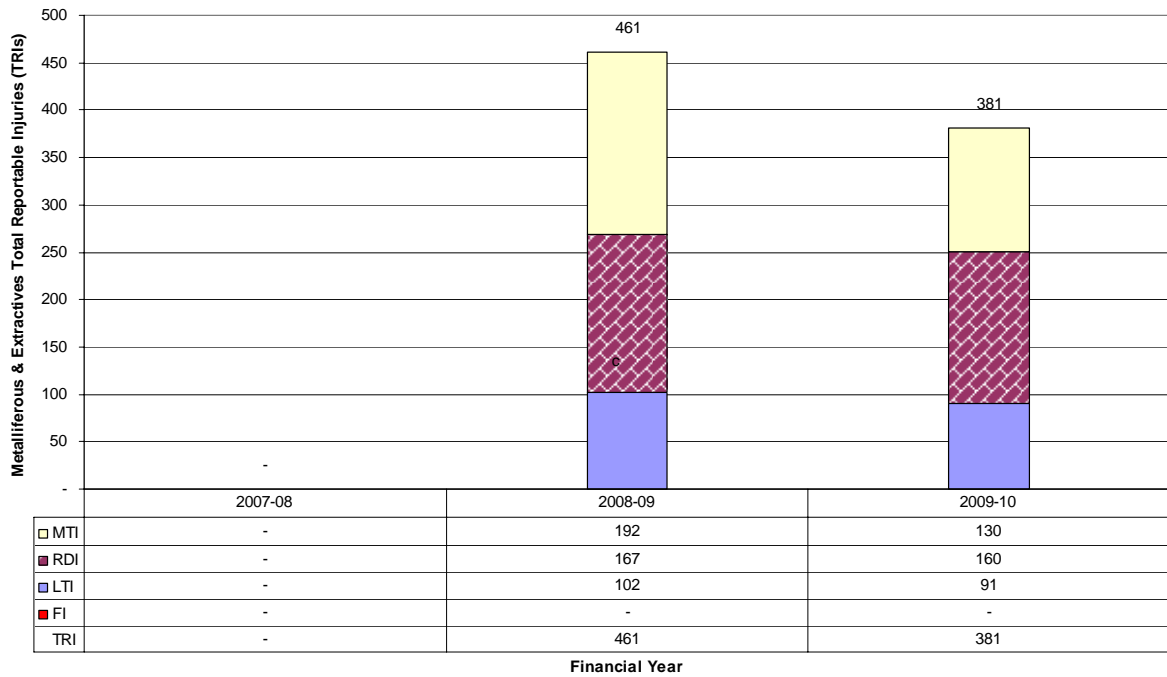


Figure 90
 NSW Metalliferous & Extractives Total Recordable Injuries (TRIs) by Injury Type
 2007-08 to 2009-10



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

4.5 Serious Bodily Injuries (SBIs)

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

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

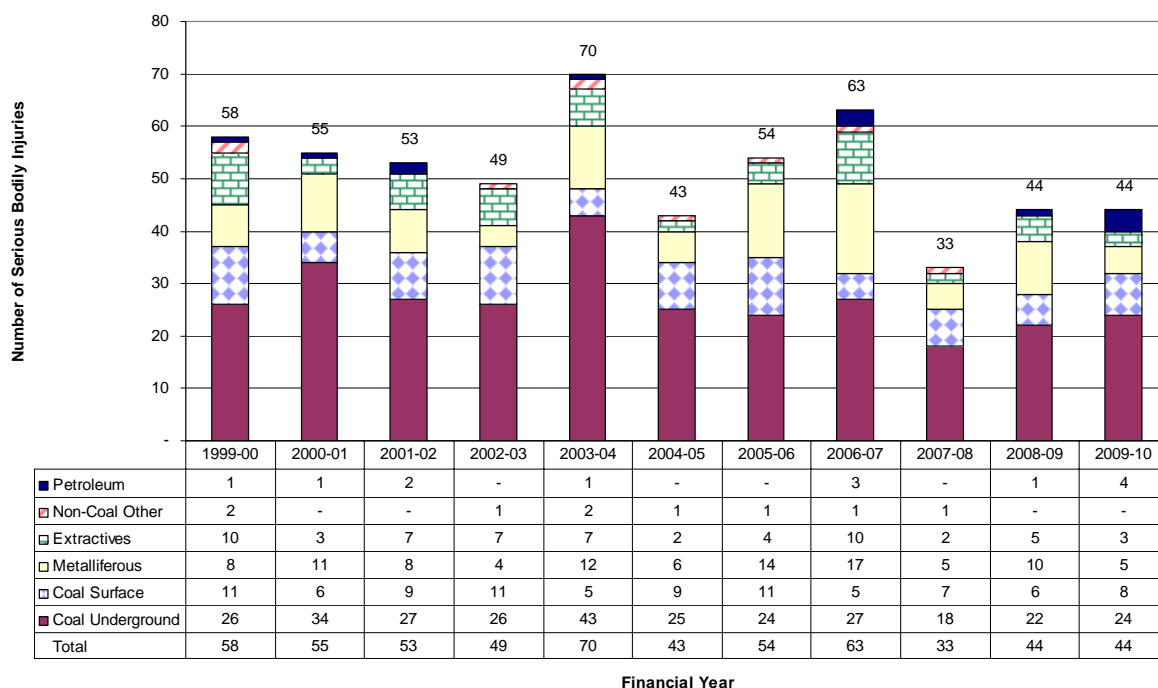
Note also that the measure of serious bodily injuries is not directly comparable to other mining jurisdictions or the WorkCover Authority of NSW, which use varying definitions for disability injuries.

- In 2009-10 serious bodily injuries were 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, almost two thirds occurred in underground operations and almost all were related to the work environment or mobile mechanical plant.
- In 2009-10, the Coal, Metalliferous & Extractives SBIFR of 0.73 was 31% below the five year average of 1.06.
- Coal sector SBIs rose from 28 in 2008-09 to 32 in 2009-10.
- The Coal sector SBIFR of 0.78 in 2009-10 was 20.4% below the five year average of 0.98.
- Metalliferous & Extractives sector SBIs fell from 15 in 2008-09 to 8 in 2009-10.
- In 2009-10 the Metalliferous & Extractives sector achieved a near-record low SBIFR of 0.59 which is 51% below the five year average of 1.22.
- There were 4 SBIs in the Petroleum sector in 2009-10

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

4.5.1 Serious Bodily Injuries by Sector

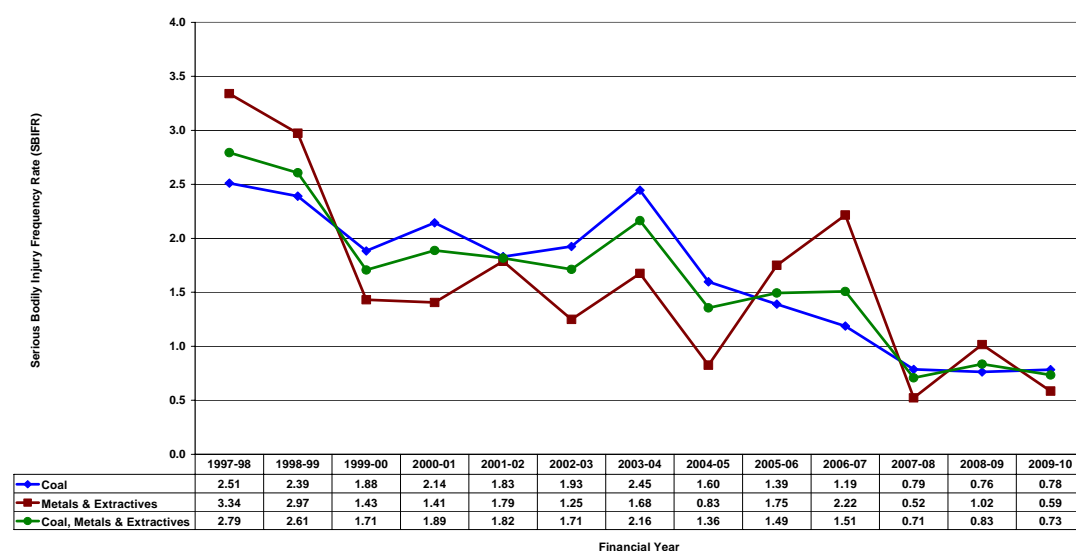
Figure 91
Serious Bodily Injuries by Sector 1999-00 to 2009-10



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

4.5.2 Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2009-10

Figure 92
NSW Coal, Metalliferous & Extractives Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2009-10



Refer to Figure 3 for Five Year Average Serious Bodily Injury Frequency Rate 2001-02 to 2009-10

Figure 93
NSW Coal Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2009-10

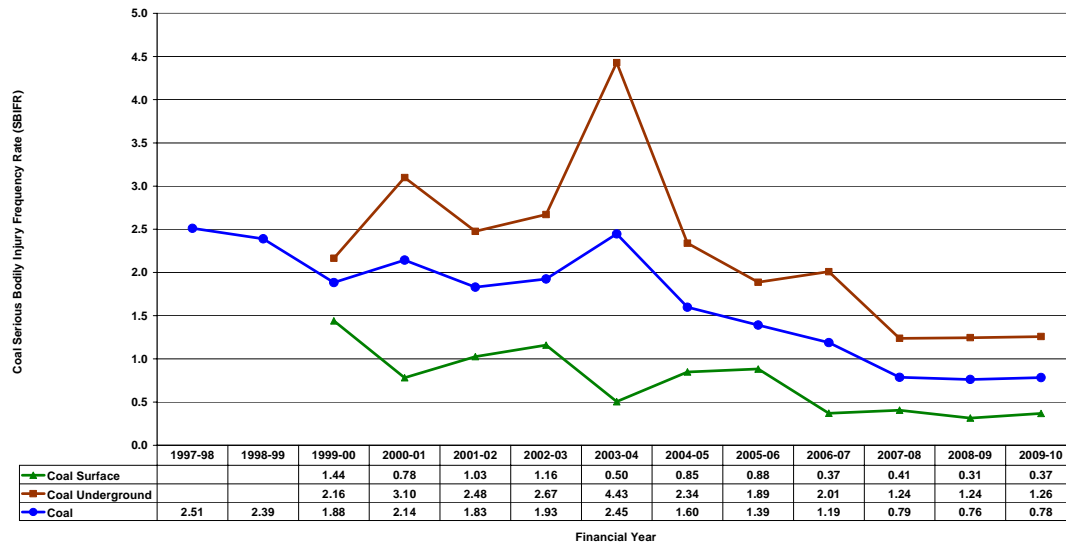
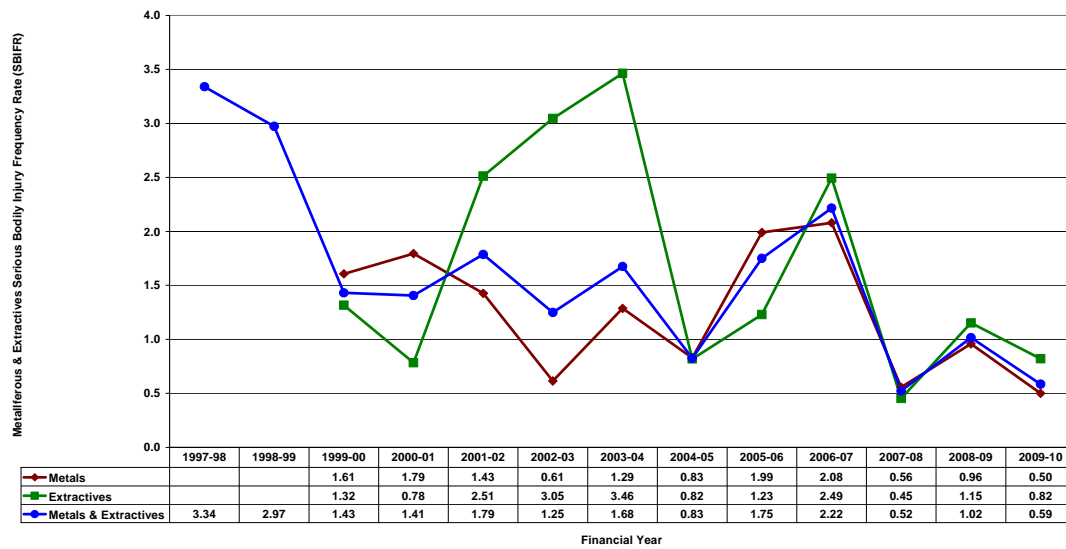


Figure 94
NSW Metalliferous & Extractives Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2009-10



4.5.3 Serious Bodily Injuries by Event Subtype

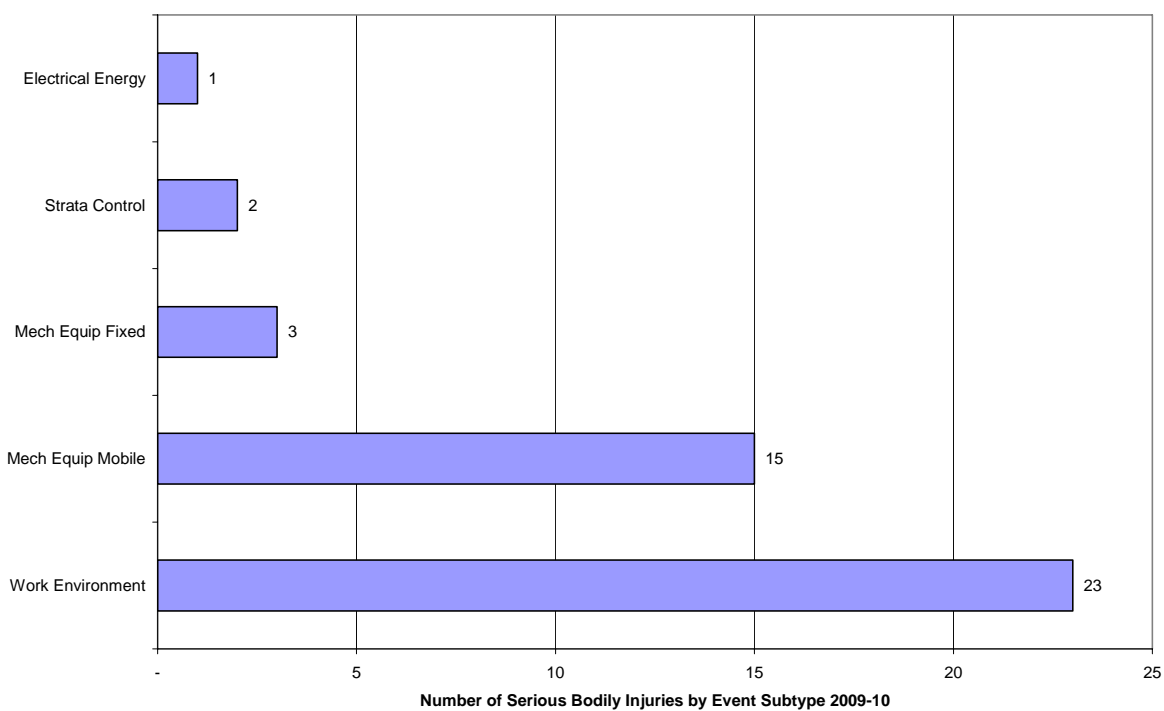
Figure 95

Serious Bodily Injuries by Event Subtype 1999-2000 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Mech Equip Mobile	20	18	16	21	24	22	24	33	15	22	15	230
Work Environment	19	16	23	16	30	15	17	20	16	19	23	214
Mech Equip Fixed	5	6	4	6	7	1	6	6	2	2	3	48
Strata Control	4	8	9	3	4	2	3	1	-	-	2	36
Electrical Energy	4	1	-	-	4	3	2	-	-	-	1	15
Hazardous Materials	3	2	1	3	-	-	-	-	-	1	-	10
Gas	1	3	-	-	-	-	1	1	-	-	-	6
Structural Failure	1	-	-	-	1	-	-	2	-	-	-	4
Water	1	1	-	-	-	-	1	-	-	-	-	3
Total	58	55	53	49	70	43	54	63	33	44	44	566

Figure 96

Serious Bodily Injuries by Event Subtype 2009-10

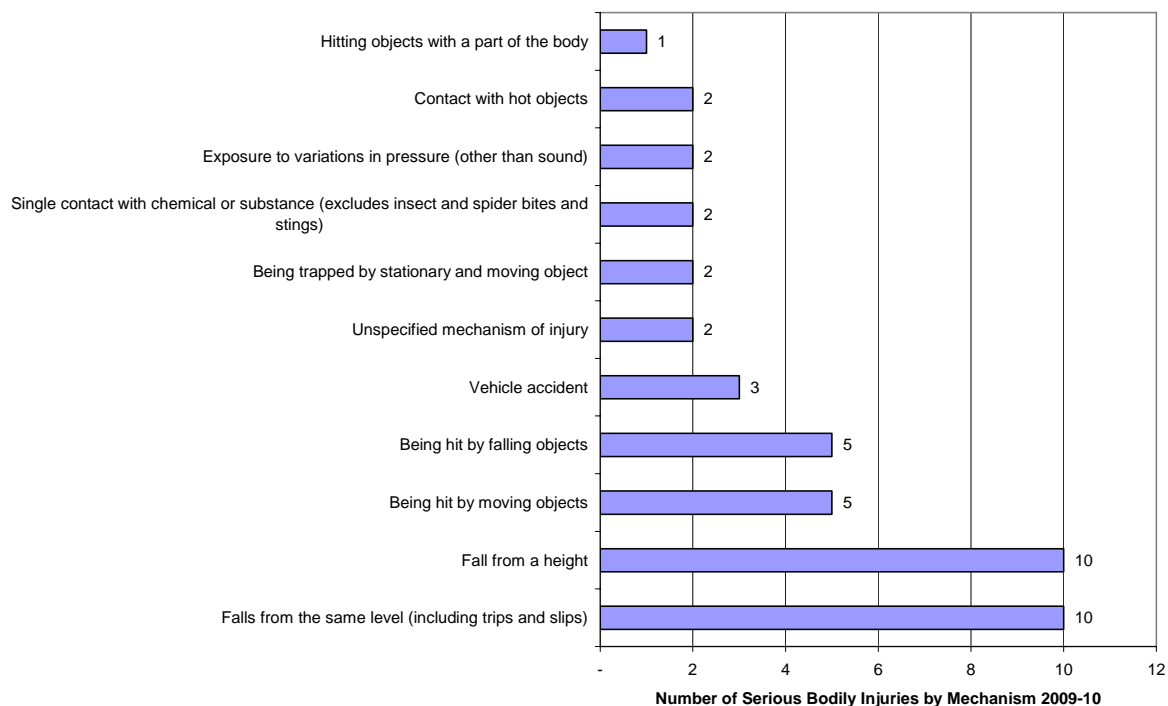


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Event Subtype.

4.5.4 Serious Bodily Injuries by Mechanism

Figure 97

Serious Bodily Injuries by Mechanism 2009-10

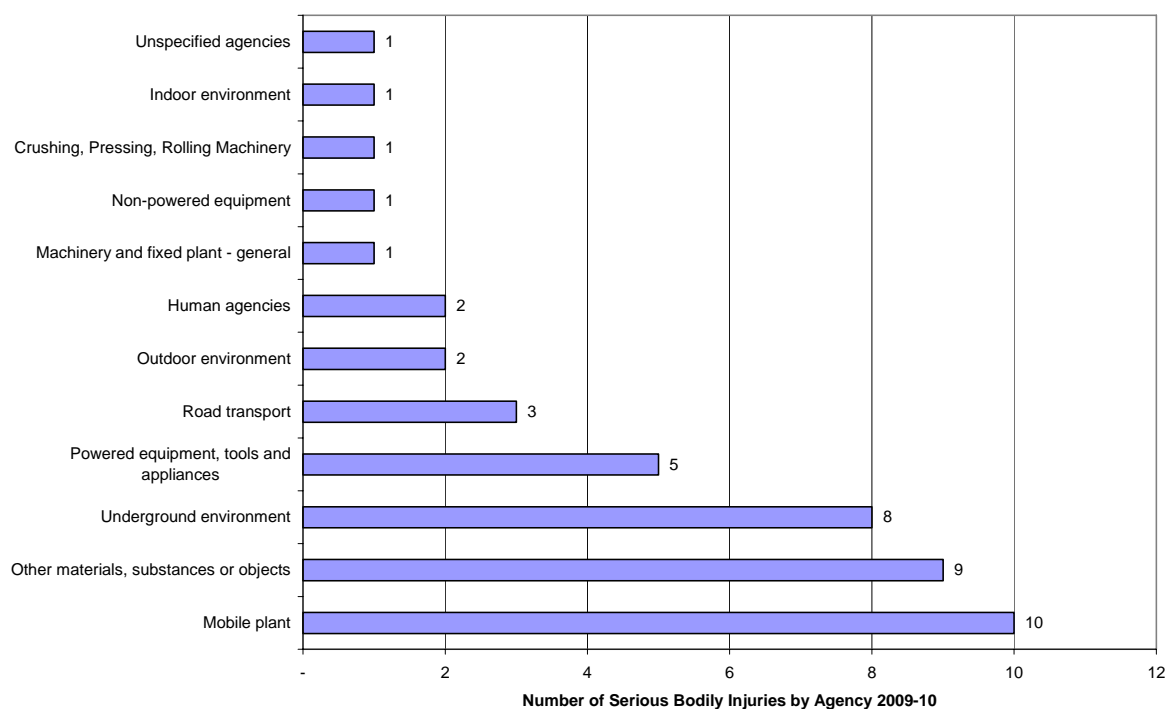


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Mechanism.

4.5.5 Serious Bodily Injuries by Agency

Figure 98

Serious Bodily Injuries by Agency 2009-10

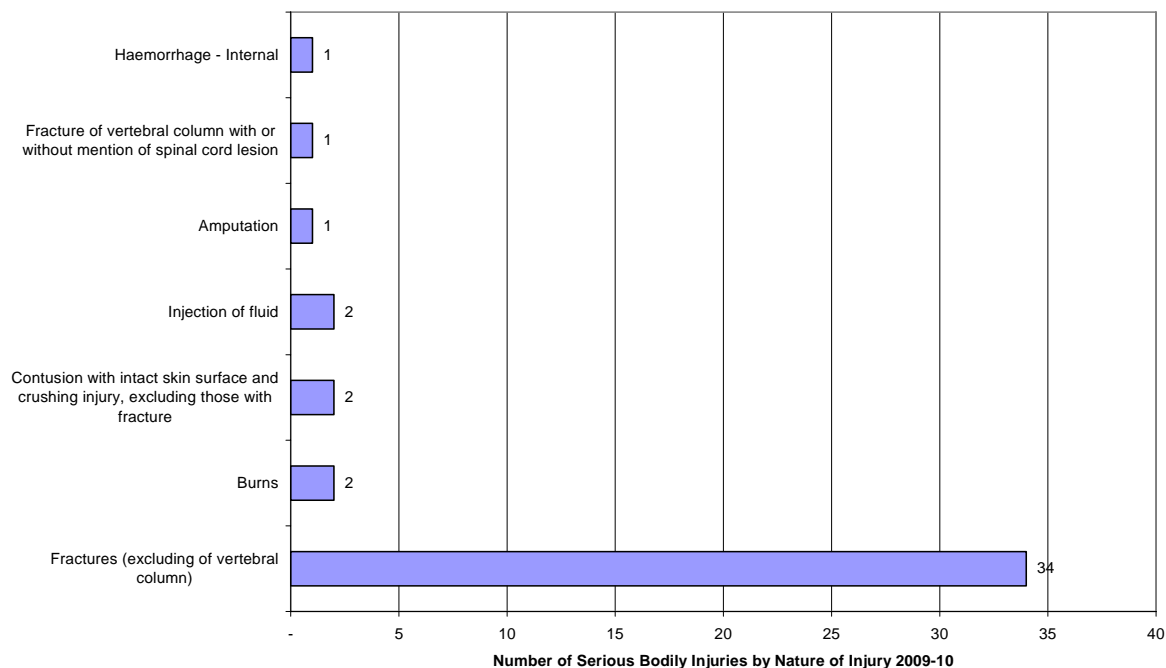


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Agency.

4.5.6 Serious Bodily Injuries by Nature of Injury

Figure 99

Serious Bodily Injuries by Nature of Injury 2009-10

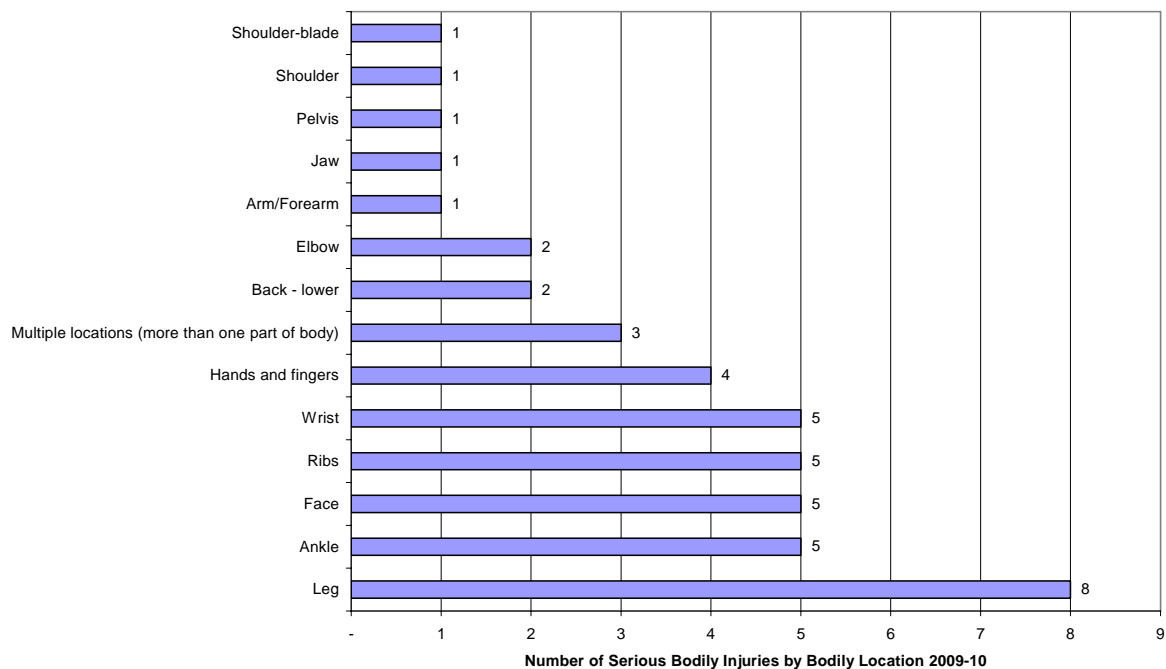


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Nature of Injury.

4.5.7 Serious Bodily Injuries by Bodily Location

Figure 100

Serious Bodily Injuries by Bodily Location 2009-10

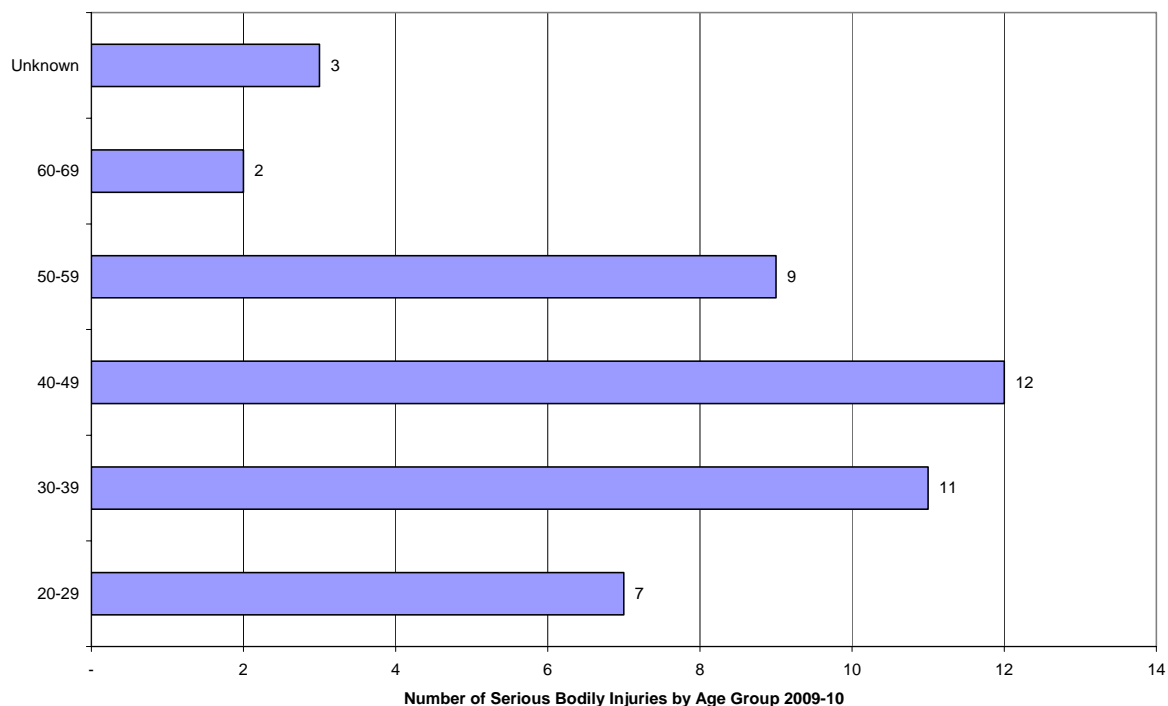


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Bodily Location.

4.5.8 Serious Bodily Injuries by Age Group

Figure 101

Serious Bodily Injuries by Age Group 2009-10

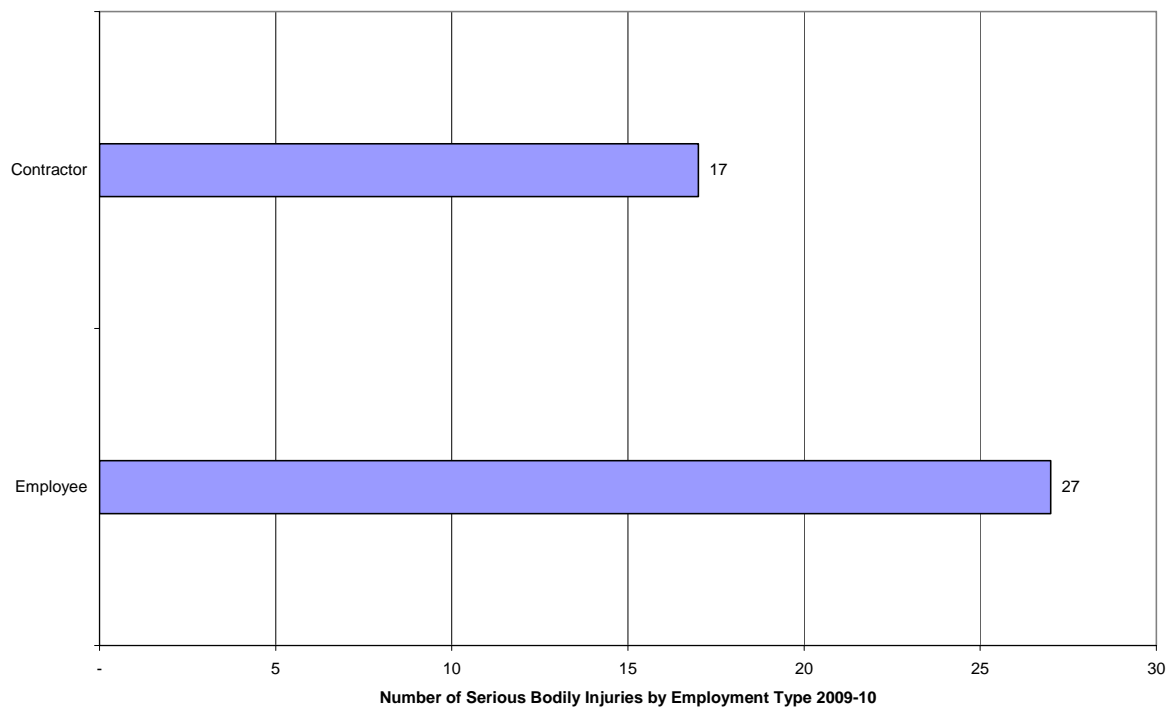


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Age Group.

4.5.9 Serious Bodily Injuries by Employment Type

Figure 102

Serious Bodily Injuries by Employment Type 2009-10



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

4.6 Notifiable Injury Outcomes

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

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, due to legislative changes, these injury outcomes became reportable for Coal, under CMHSR 2006 Clauses 55, 56 and 57, from mid 2006-07 and for Non-Coal, under MHSR 2007 Clause 145 and 146, from the second quarter of 2008-09.

- In 2009-10, the most common causes of injuries with notifiable outcomes were slips and trips, muscular stressing, or being hit by moving or falling objects. Hand and finger injuries featured prominently, 85.5% occurred in underground operations and the majority were related to either the work environment or mobile mechanical equipment.
- From 2008-09 to 2009-10, 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 5% while the number of injuries that resulted in an outcome of hospital inpatient admission increased by 10.5%.
- The reporting of injury outcomes in the Non-Coal sector commenced in the second quarter of 2008-09, and saw 25 notifications in nine months, compared to 45 in all of 2009-2010. This is a 33% pro-rata increase compared to the part-year of introduction of the new reporting requirement. A comparison with next year should give a better indication of the underlying level of real occurrences, as happened after two years of outcome notifications from the coal sector.

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

4.6.1 Notifiable Injury Outcomes by Injury Outcome

Figure 103

Notifiable Injury Outcomes by Injury Outcome mid 2006-07 to 2009-10

Outcome	2006-07	2007-08	2008-09	2009-10	Total
>=7 days lost time/alternative duties	192	425	411	404	1,432
Hospital inpatient admission	35	75	101	118	329
Lost consciousness	3	5	4	6	18
Entrapment	-	-	3	1	4
Fatality	-	-	3	-	3
Total	230	505	522	529	1,786

Figure 104

Notifiable Injury Outcomes by Injury Outcome mid 2006-07 to 2009-10

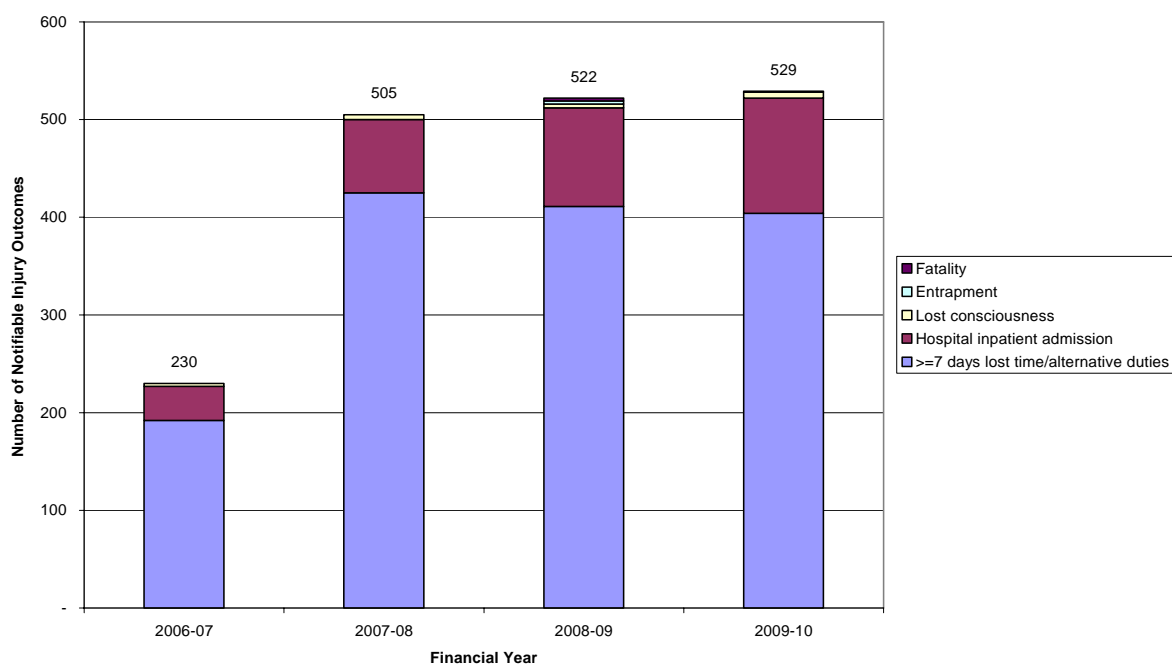
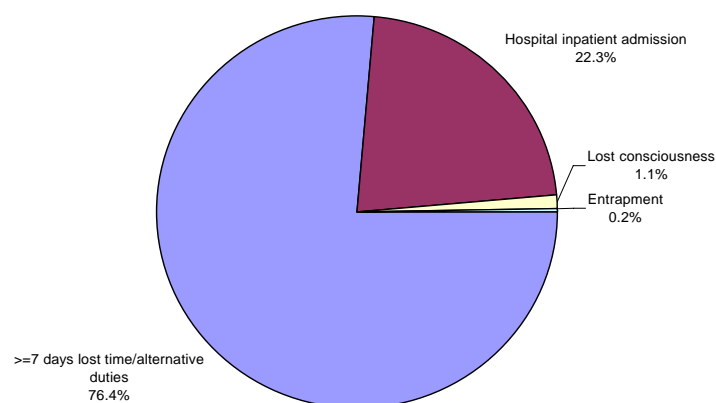


Figure 105

Notifiable Injury Outcomes 2009-10

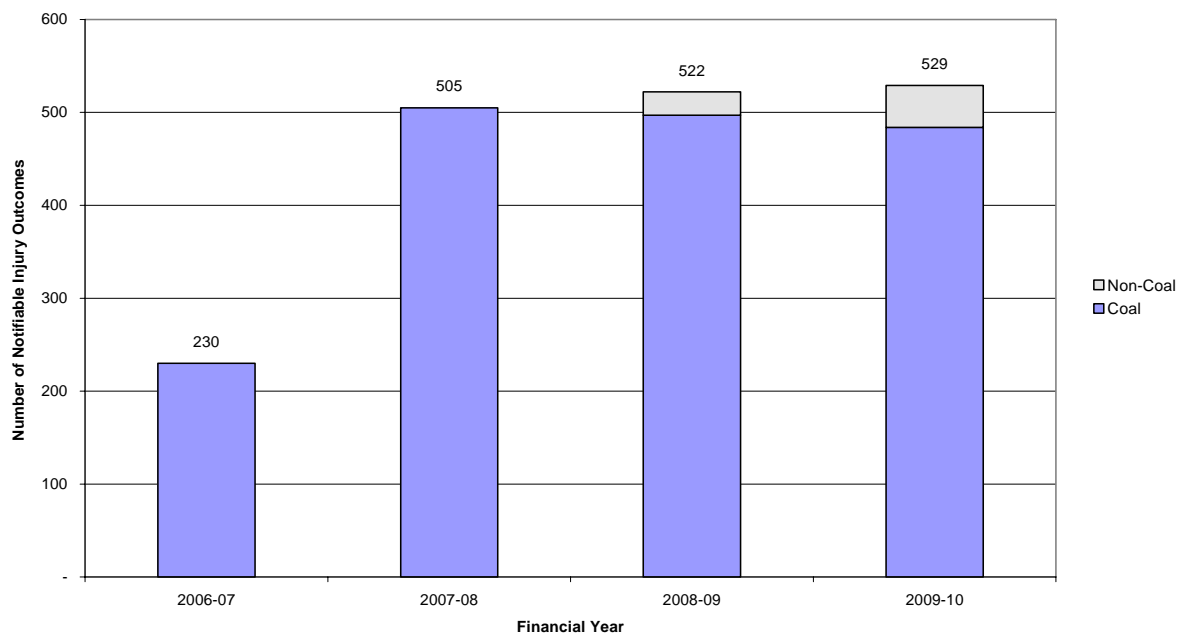


Refer to Appendix A.7 for further details of Notifiable Injury Outcomes.

4.6.2 Notifiable Injury Outcomes by Sector

Figure 106

Notifiable Injury Outcomes by Sector mid 2006-07 to 2009-10

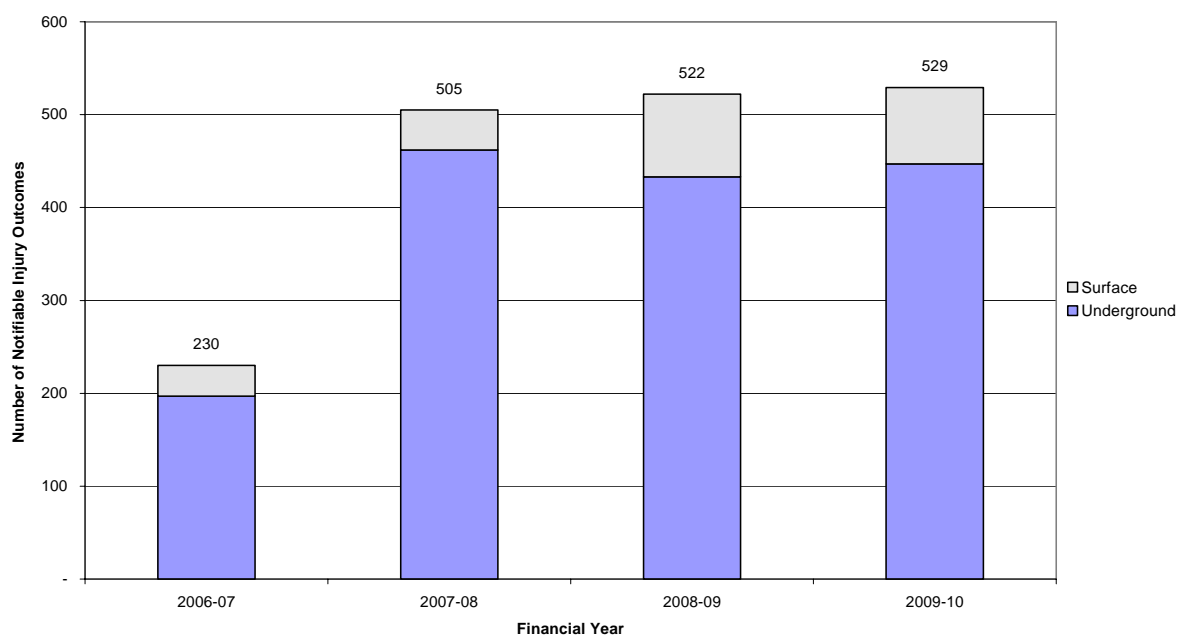


Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Sector

4.6.3 Notifiable Injury Outcomes by Operation Type

Figure 107

Notifiable Injury Outcomes by Surface/Underground Operation mid 2006-07 to 2009-10



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

4.6.4 Notifiable Injury Outcomes by Event Subtype

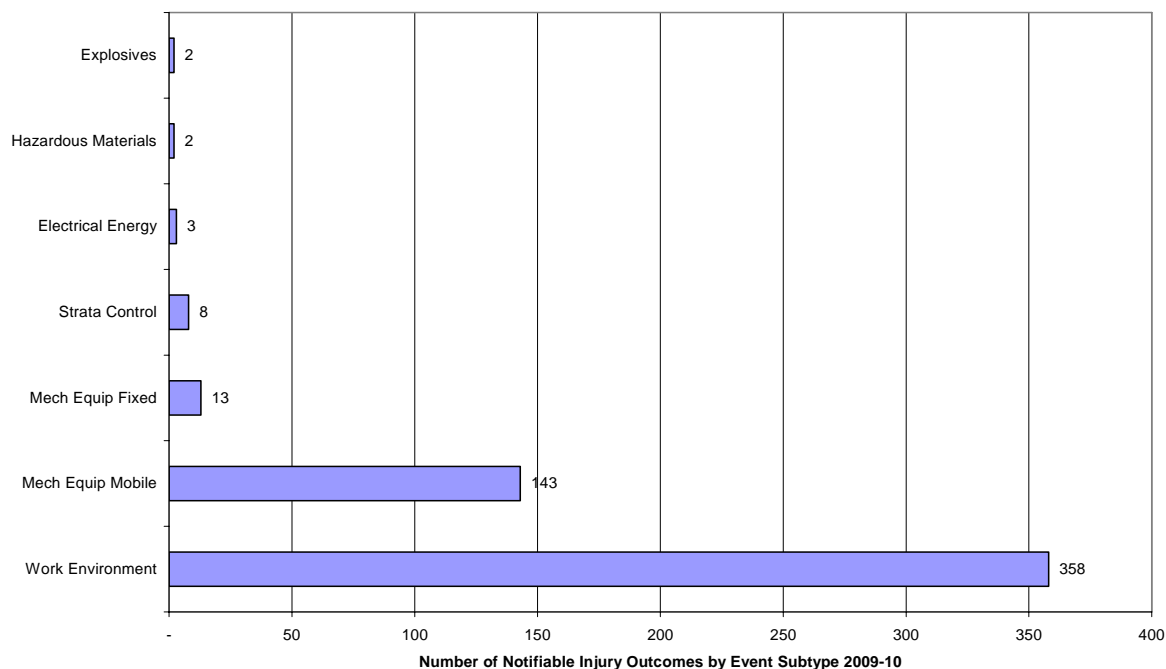
Figure 108

Notifiable Injury Outcomes by Event Subtype mid 2006-07 to 2009-10

Event Subtype	2006-07				2007-08				2008-09					2009-10					Total	
	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment	Fatality	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment		Total
Work Environment	117	10	1	128	267	42	2	311	274	47	1	-	1	323	289	65	4	-	358	1,120
Mech Equip Mobile	67	19	1	87	147	28	3	178	121	44	2	1	2	170	101	40	2	-	143	578
Mech Equip Fixed	5	2	-	7	6	2	-	8	9	8	-	-	-	17	7	6	-	-	13	45
Strata Control	1	2	-	3	2	-	-	2	4	-	-	2	-	6	5	2	-	1	8	19
Electrical Energy	-	1	-	1	1	1	-	2	2	2	1	-	-	5	1	2	-	-	3	11
Hazardous Materials	2	1	-	3	1	1	-	2	-	-	-	-	-	-	-	2	-	-	2	7
Explosives	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2	2
Gas	-	-	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	-	2	2
Structural Failure	-	-	1	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	2	2
Total	192	35	3	230	425	75	5	505	411	101	4	3	3	522	404	118	6	1	529	1,786

Figure 109

Notifiable Injury Outcomes by Event Subtype 2009-10



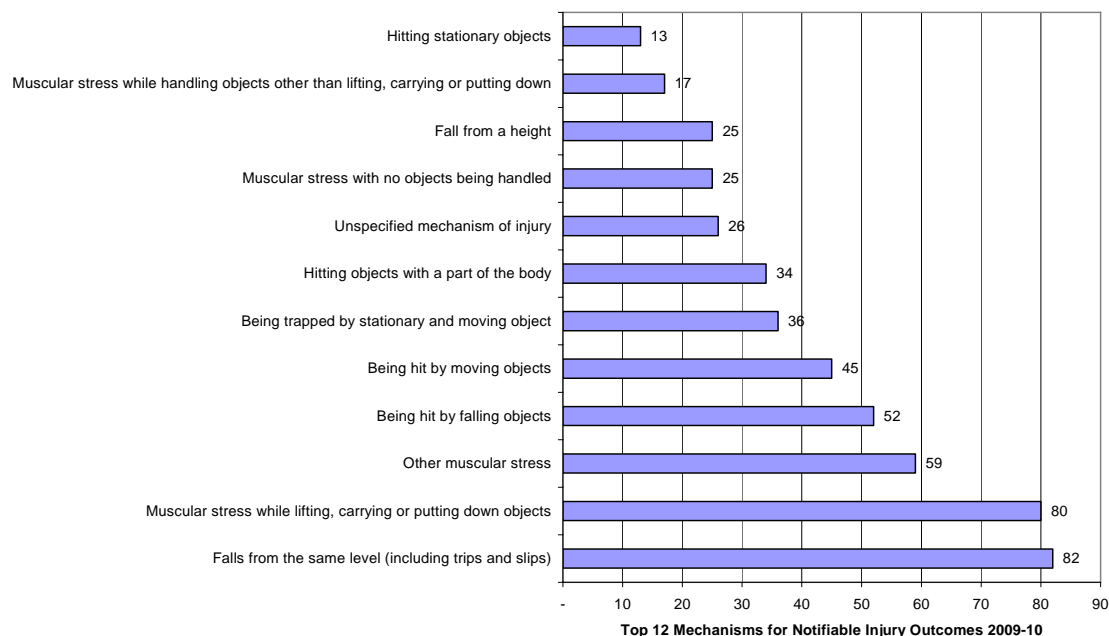
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Event Subtype.

4.6.5 Notifiable Injury Outcomes by Mechanism

Figure 110

Top 12 Mechanisms for Notifiable Injury Outcomes 2009-10

The top 12 mechanisms represent 494 (93%) of 529 notifiable injury outcomes.



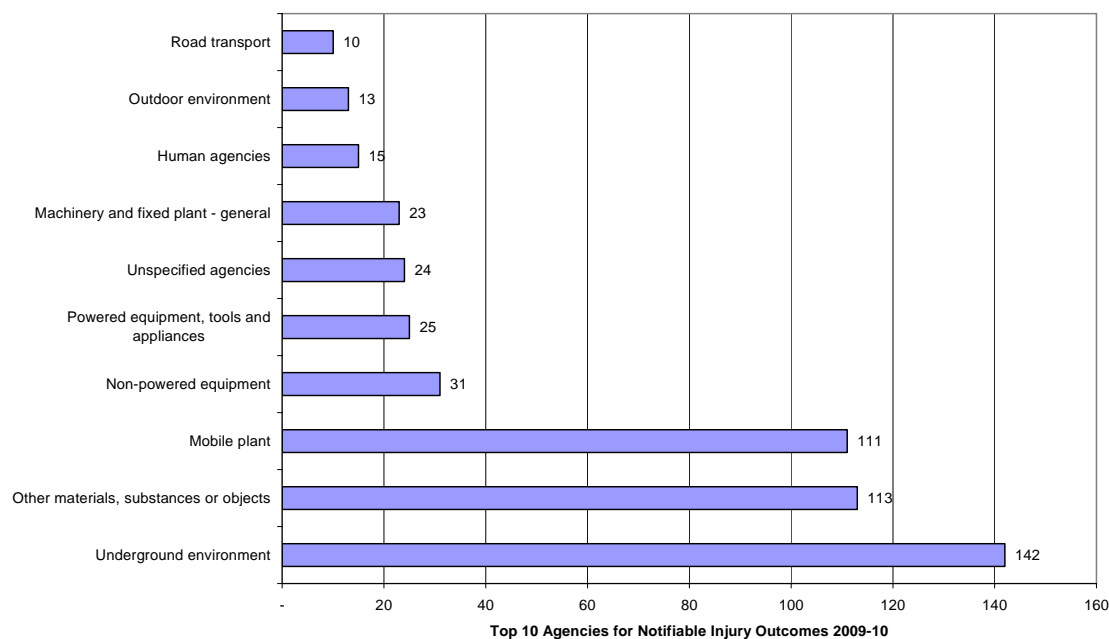
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Mechanism.

4.6.6 Notifiable Injury Outcomes by Agency

Figure 111

Top 10 Agencies for Notifiable Injury Outcomes 2009-10

The top 10 agencies represent 507 (96%) of 529 notifiable injury outcomes.



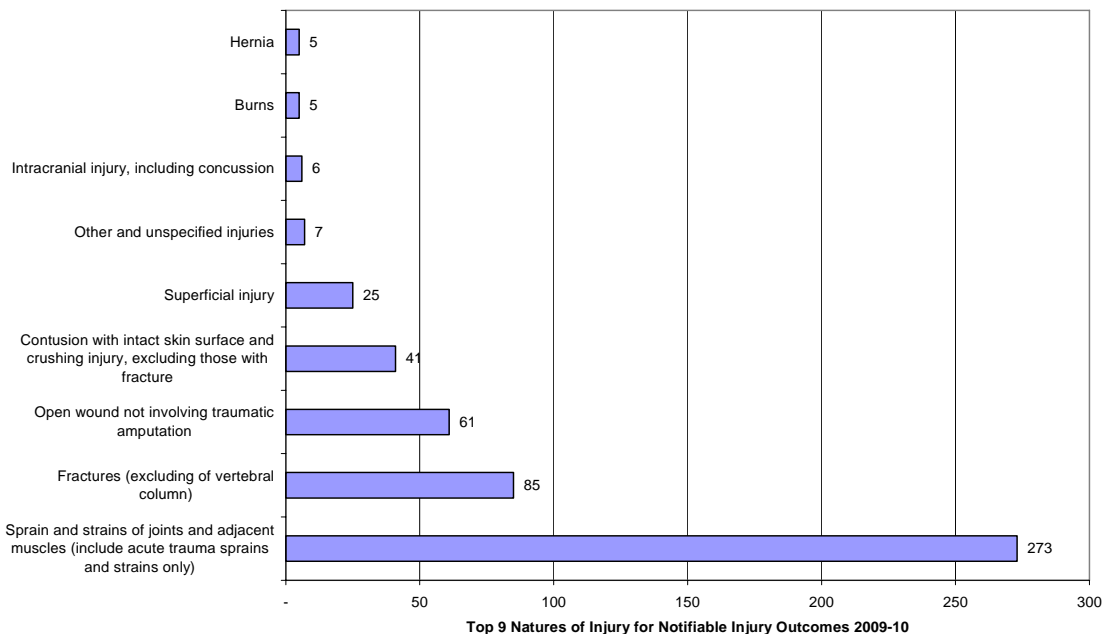
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Agency.

4.6.7 Notifiable Injury Outcomes by Nature of Injury

Figure 112

Top 9 Natures of Injury for Notifiable Injury Outcomes 2009-10

The top 9 natures of injury represent 489 (96%) of 510 notifiable injury outcomes.



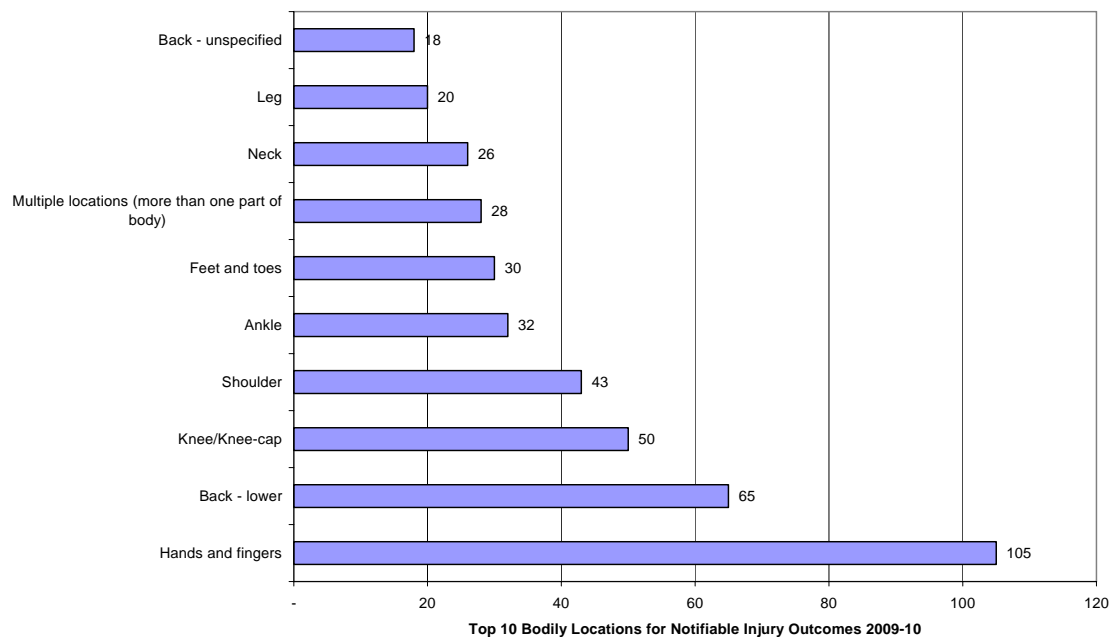
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Nature of Injury.

4.6.8 Notifiable Injury Outcomes by Bodily Location

Figure 113

Top 10 Bodily Locations for Notifiable Injury Outcomes 2009-10

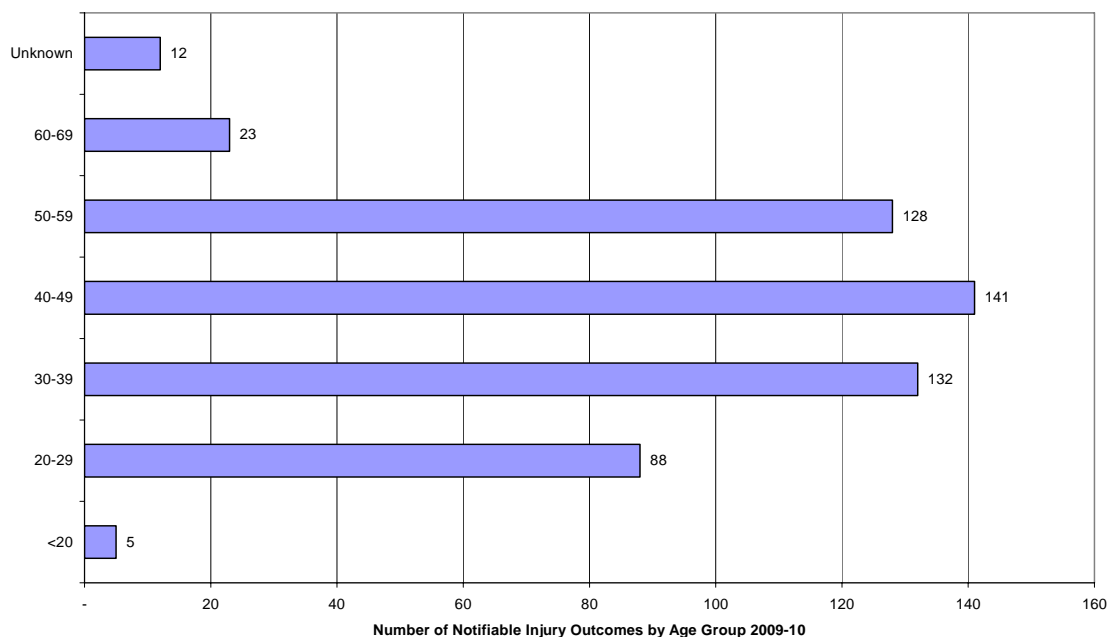
The top 10 bodily locations represent 417 (79%) of 529 notifiable injury outcomes



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

4.6.9 Notifiable Injury Outcomes by Age Group

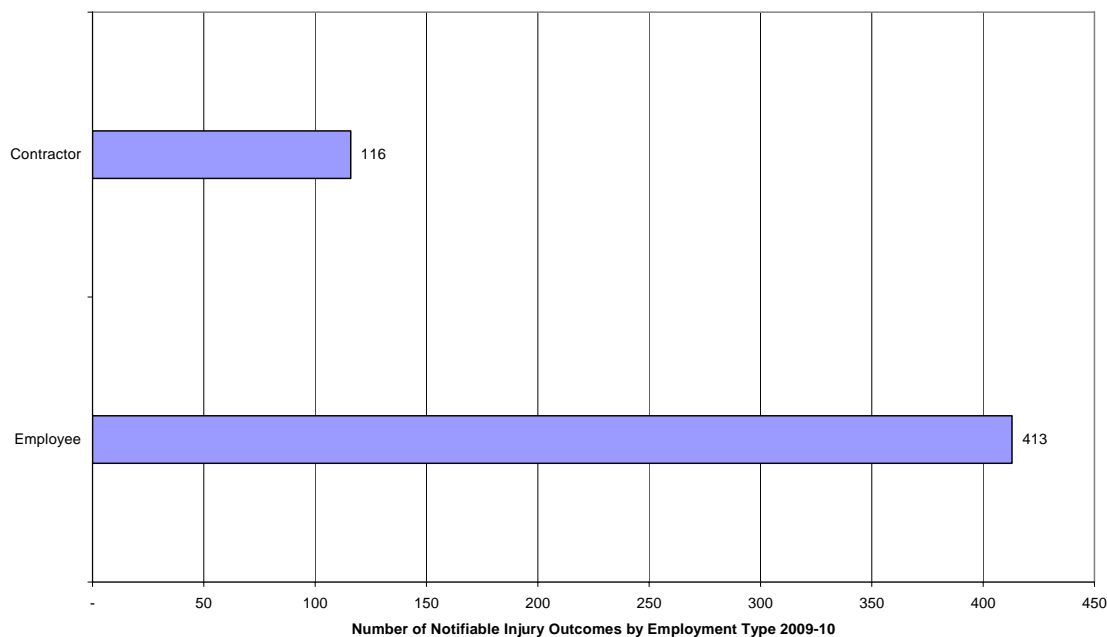
Figure 114
Notifiable Injury Outcomes by Age Group 2009-10



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

4.6.10 Notifiable Injury Outcomes by Employment Type

Figure 115
Notifiable Injury Outcomes by Employment Type 2009-10



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

5 ASSESSMENTS

5.1 All Assessments

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

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

5.1.1 All Assessments by Sector

Figure 116

All Assessments by Sector 1999-00 to 2009-10

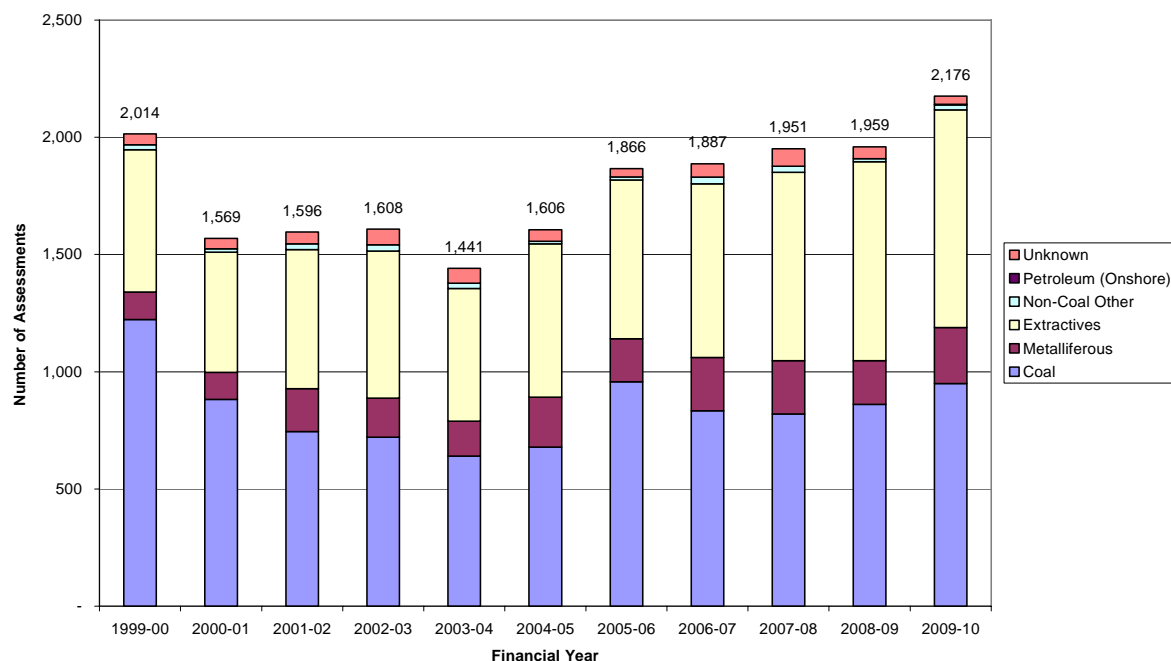
NB "Unknown" refers to assessments conducted for non-mine organisations

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Coal	1,223	882	745	721	640	679	957	834	820	861	950	9,312
Metalliferous	117	115	183	167	149	213	184	227	227	186	238	2,006
Extractives	607	513	593	627	566	653	677	741	804	849	929	7,559
Non-Coal Other	21	14	24	26	23	12	13	28	26	13	21	221
Petroleum (Onshore)	-	-	-	-	-	-	-	-	-	-	3	3
Unknown	46	45	51	67	63	49	35	57	74	50	35	572
Total	2,014	1,569	1,596	1,608	1,441	1,606	1,866	1,887	1,951	1,959	2,176	19,673

Figure 117

All Assessments by Sector 1999-00 to 2009-10

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



5.1.2 All Assessments by Operation Type

Figure 118

All Assessments by Operation Type 1999-00 to 2009-10

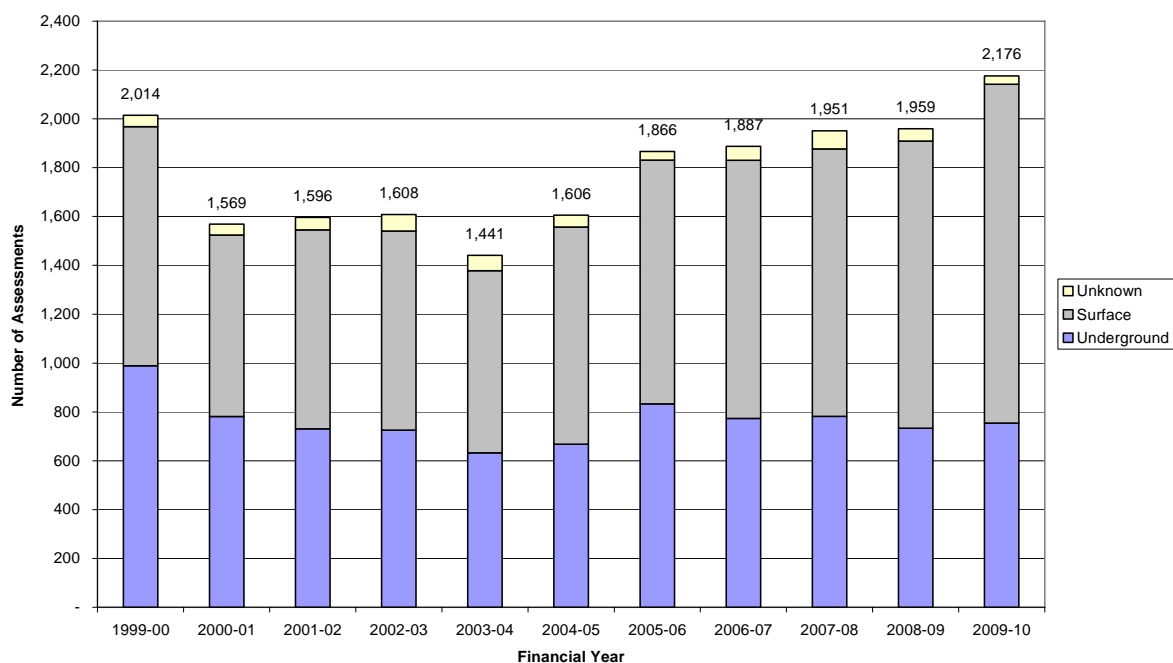
NB "Unknown" refers to assessments conducted for non-mine organisations

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Underground	989	781	731	725	633	668	833	773	782	733	754	8,402
Surface	979	743	814	816	745	889	998	1,057	1,095	1,176	1,387	10,699
Unknown	46	45	51	67	63	49	35	57	74	50	35	572
Total	2,014	1,569	1,596	1,608	1,441	1,606	1,866	1,887	1,951	1,959	2,176	19,673

Figure 119

All Assessments by Operation Type 1999-00 to 2009-10

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



5.1.3 All Assessments by Event Subtype

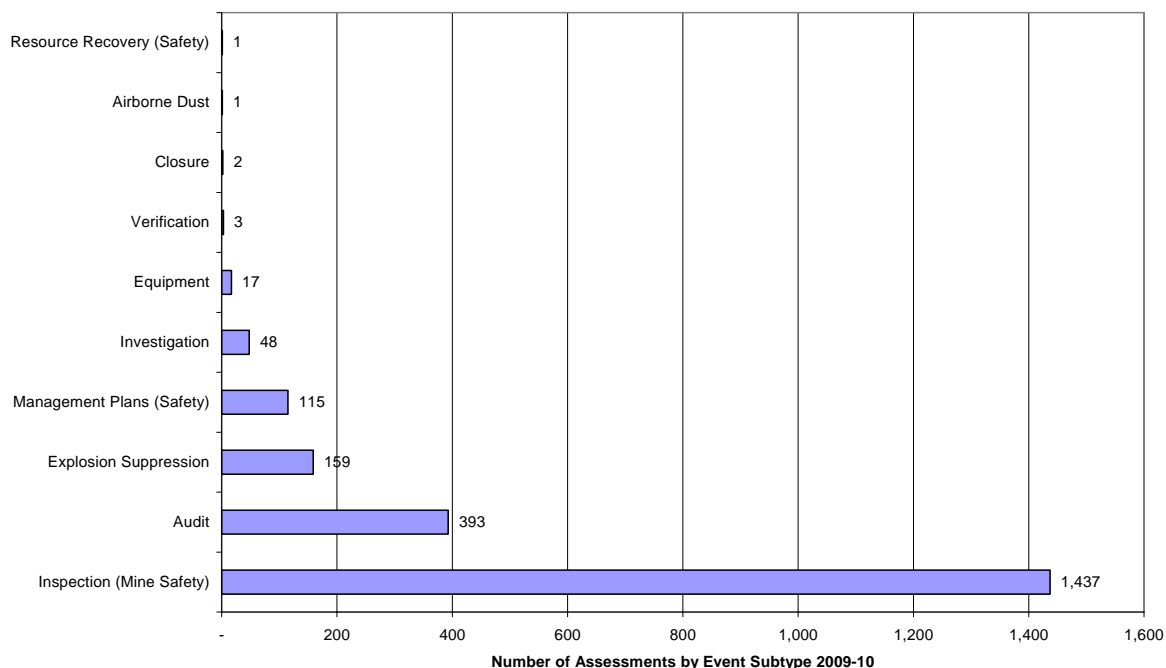
Figure 120

All Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	1,106	1,063	1,127	1,077	927	1,177	1,273	1,270	1,371	1,374	1,437	13,202
Audit	80	146	199	233	204	101	288	212	268	299	393	2,423
Explosion Suppression	206	224	162	178	143	105	90	91	116	103	159	1,577
Management Plans (Safety)	431	53	29	59	54	86	118	149	57	71	115	1,222
Investigation	38	48	52	37	52	44	58	109	105	74	48	665
Verification	148	33	26	18	10	9	14	16	12	9	3	298
Equipment	3	-	-	-	-	44	16	31	9	18	17	138
Airborne Dust	1	2	1	6	50	34	1	2	8	8	1	114
Seminar/Workshop	-	-	-	-	1	-	5	2	5	3	-	16
Closure	1	-	-	-	-	2	2	4	-	-	2	11
Resource Recovery (Safety)	-	-	-	-	-	4	1	1	-	-	1	7
Total	2,014	1,569	1,596	1,608	1,441	1,606	1,866	1,887	1,951	1,959	2,176	19,673

Figure 121

All Assessments by Event Subtype 2009-10



5.2 Coal Assessments

5.2.1 Coal Assessments by Operation Type

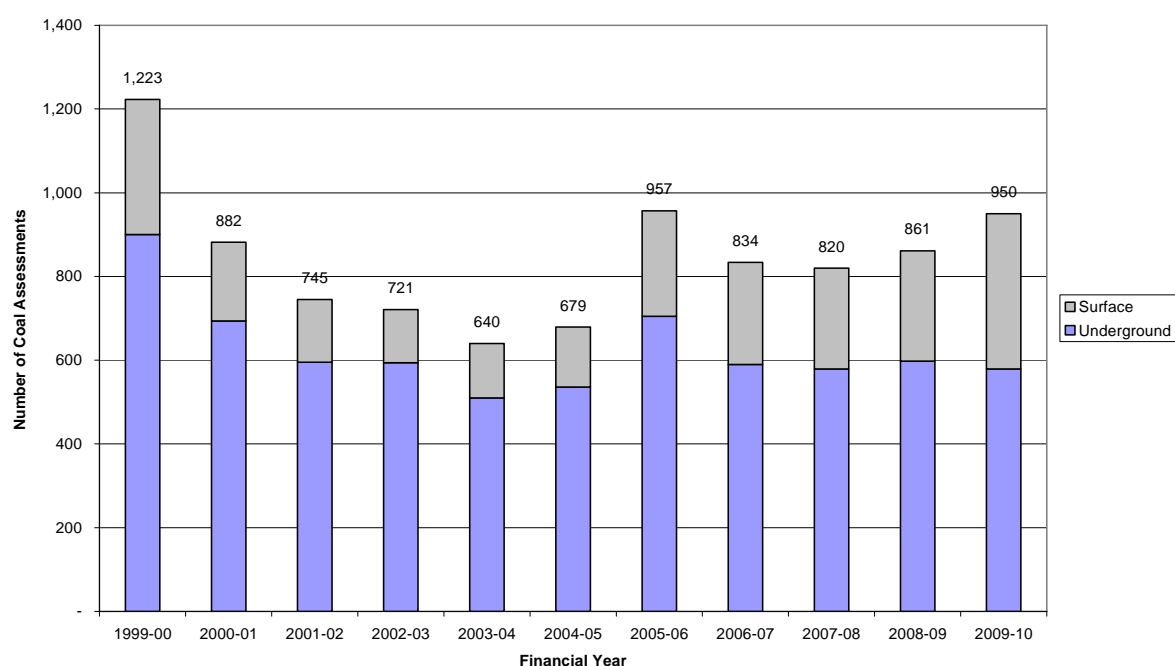
Figure 122

Coal Assessments by Operation Type 1999-00 to 2009-10

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Underground	900	694	595	594	510	536	705	590	579	598	579	6,880
Surface	323	188	150	127	130	143	252	244	241	263	371	2,432
Total	1,223	882	745	721	640	679	957	834	820	861	950	9,312

Figure 123

Coal Assessments 1999-00 to 2009-10



5.2.2 Coal Assessments by Event Subtype

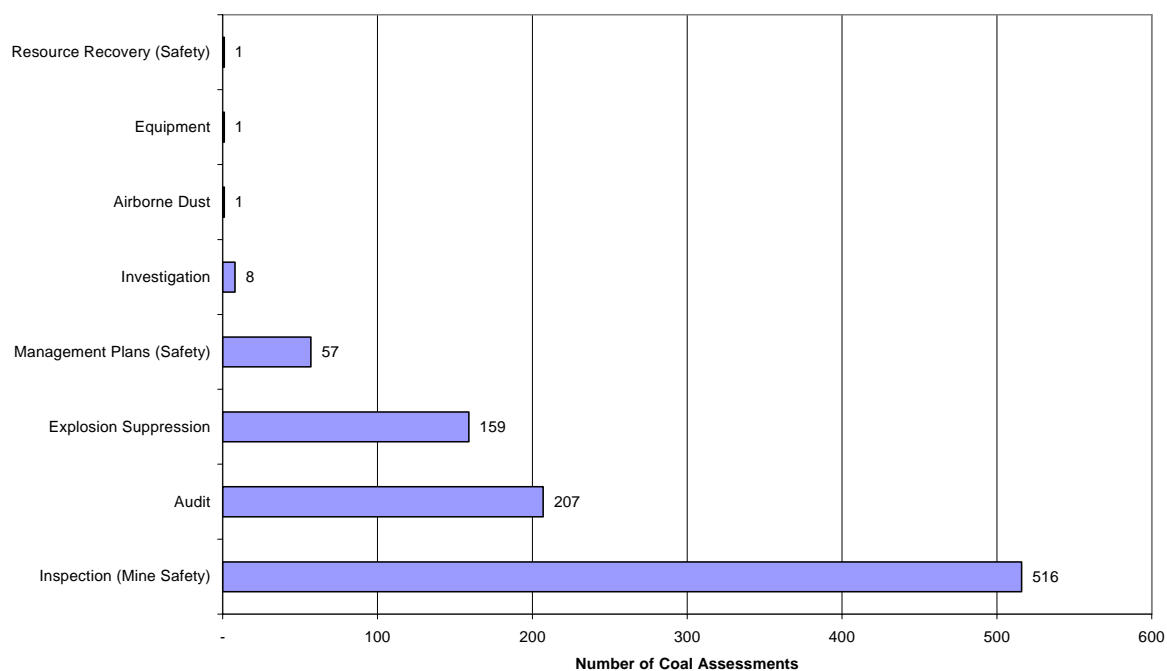
Figure 124

Coal Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	520	473	404	310	282	410	518	400	463	463	516	4,759
Explosion Suppression	204	223	161	177	143	105	90	91	116	103	159	1,572
Audit	66	118	156	184	109	43	224	143	125	187	207	1,562
Management Plans (Safety)	419	51	12	39	41	54	96	133	43	54	57	999
Investigation	4	15	9	4	18	7	17	50	64	40	8	236
Airborne Dust	1	2	1	6	47	34	1	2	4	3	1	102
Equipment	-	-	-	-	-	24	9	14	5	11	1	64
Verification	9	-	2	1	-	-	1	-	-	-	-	13
Resource Recovery (Safety)	-	-	-	-	-	1	1	-	-	-	1	3
Closure	-	-	-	-	-	1	-	-	-	-	-	1
Seminar/Workshop	-	-	-	-	-	-	-	1	-	-	-	1
Total	1,223	882	745	721	640	679	957	834	820	861	950	9,312

Figure 125

Coal Assessments by Event Subtype 2009-10



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

5.3 Non-Coal Assessments

5.3.1 Non-Coal Assessments by Operation Type

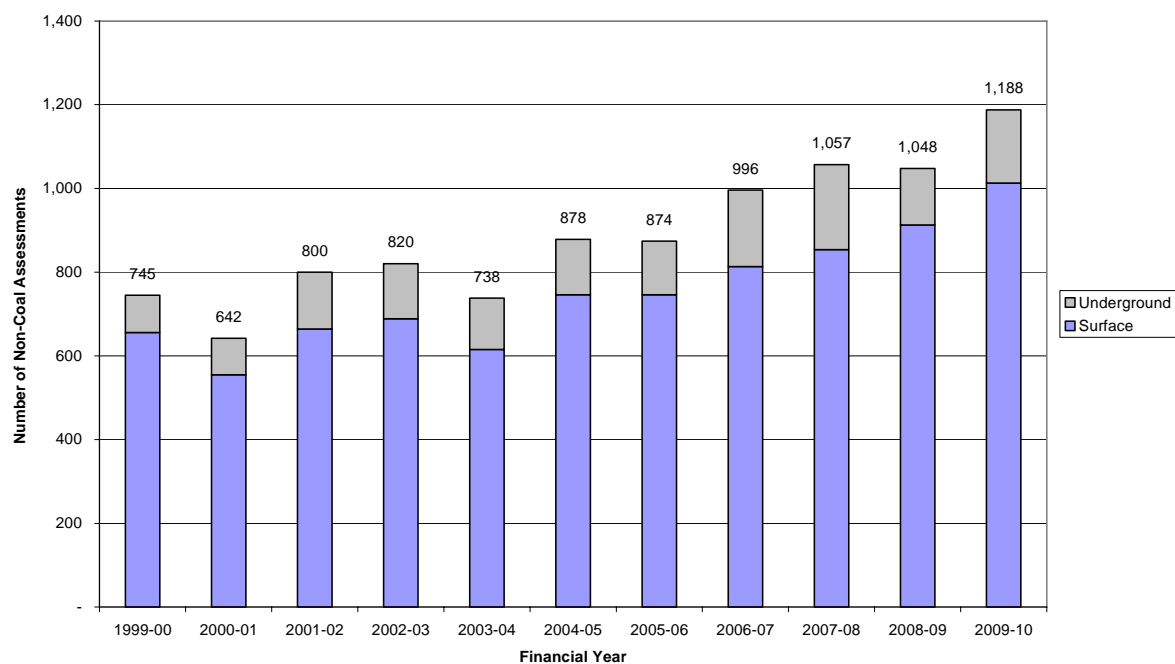
Figure 126

Non-Coal Assessments by Operation Type 1999-00 to 2009-10

Operation Type	Mine Category	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Surface	Metalliferous	36	35	71	63	56	101	73	57	60	62	82	696
	Extractives	606	512	588	622	558	644	668	729	788	842	919	7,476
	Non-Coal Other	14	8	5	4	1	1	5	27	6	9	12	92
	Total	656	555	664	689	615	746	746	813	854	913	1,013	8,264
Underground	Metalliferous	81	80	112	104	93	112	111	170	167	124	156	1,310
	Extractives	1	1	5	5	8	9	9	12	16	7	10	83
	Non-Coal Other	7	6	19	22	22	11	8	1	20	4	9	129
	Total	89	87	136	131	123	132	128	183	203	135	175	1,522
Total	745	642	800	820	738	878	874	996	1,057	1,048	1,188	9,786	

Figure 127

Non-Coal Assessments 1999-00 to 2009-10



5.3.2 Non-Coal Metalliferous Assessments by Event Subtype

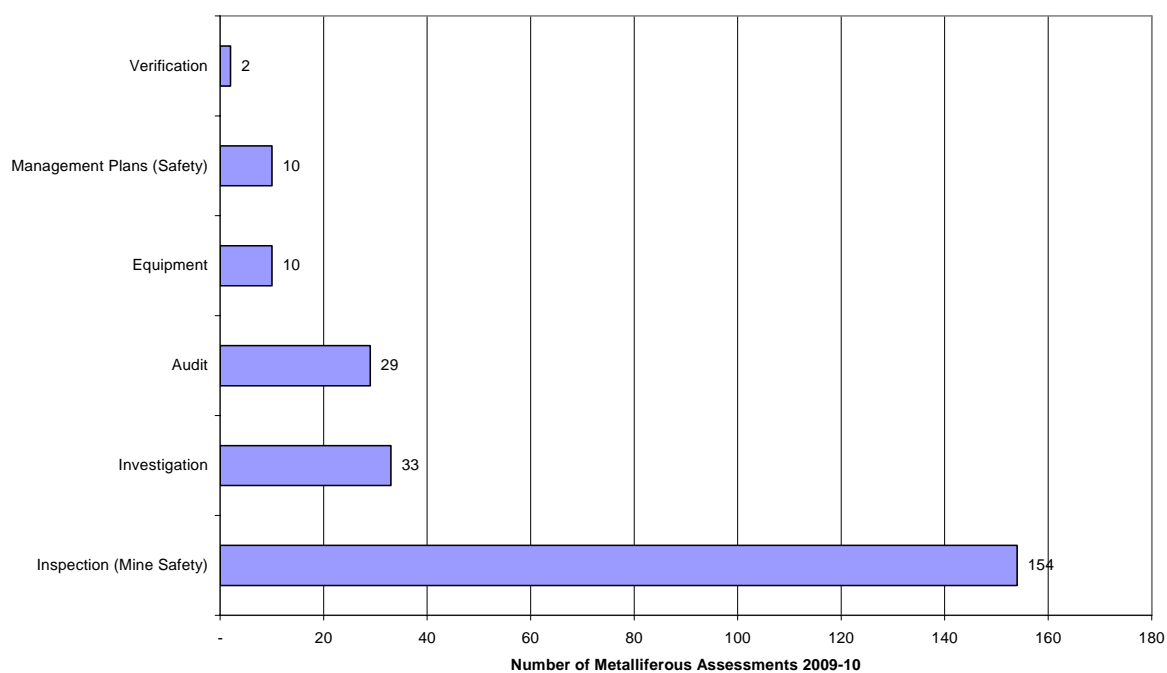
Figure 128

Non-Coal Metalliferous Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	85	89	128	125	113	164	134	148	150	143	154	1,433
Investigation	16	17	33	21	18	23	16	43	28	21	33	269
Audit	5	6	8	10	9	6	24	16	31	15	29	159
Verification	6	2	12	7	6	8	5	13	11	4	2	76
Management Plans (Safety)	4	1	2	4	3	7	4	3	7	3	10	48
Equipment	-	-	-	-	-	2	1	4	-	-	10	17
Resource Recovery (Safety)	-	-	-	-	-	3	-	-	-	-	-	3
Closure	1	-	-	-	-	-	-	-	-	-	-	1
Total	117	115	183	167	149	213	184	227	227	186	238	2,006

Figure 129

Non-Coal Metalliferous Assessments by Event Subtype 2009-10



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

5.3.3 Non-Coal Extractives Assessments by Event Subtype

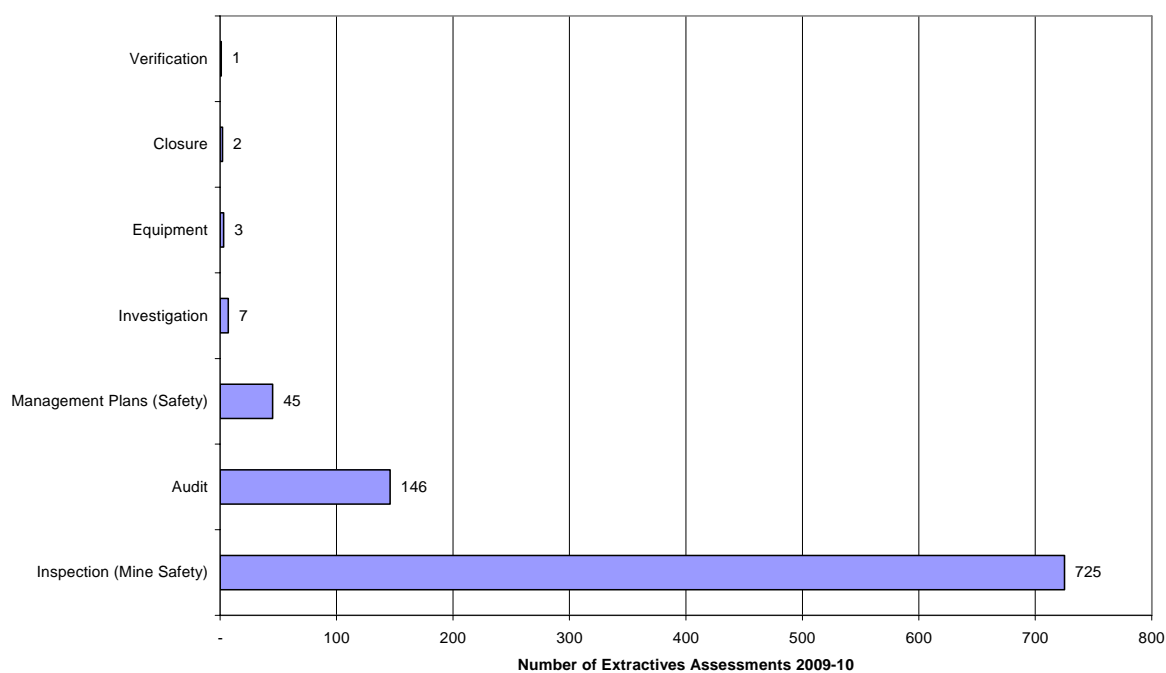
Figure 130

Non-Coal Extractives Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	457	465	548	583	482	562	584	664	716	729	725	6,515
Audit	2	7	14	8	57	49	34	46	64	85	146	512
Verification	129	31	12	10	4	1	8	3	1	4	1	204
Management Plans (Safety)	3	-	9	16	9	22	17	10	2	12	45	145
Investigation	13	10	10	10	14	13	23	14	13	10	7	137
Equipment	3	-	-	-	-	6	4	1	2	3	3	22
Airborne Dust	-	-	-	-	-	-	-	-	4	5	-	9
Seminar/Workshop	-	-	-	-	-	-	5	-	2	1	-	8
Closure	-	-	-	-	-	-	2	3	-	-	2	7
Total	607	513	593	627	566	653	677	741	804	849	929	7,559

Figure 131

Non-Coal Extractives Assessments by Event Subtype 2009-10



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

5.3.4 Non-Coal Other Assessments by Event Subtype

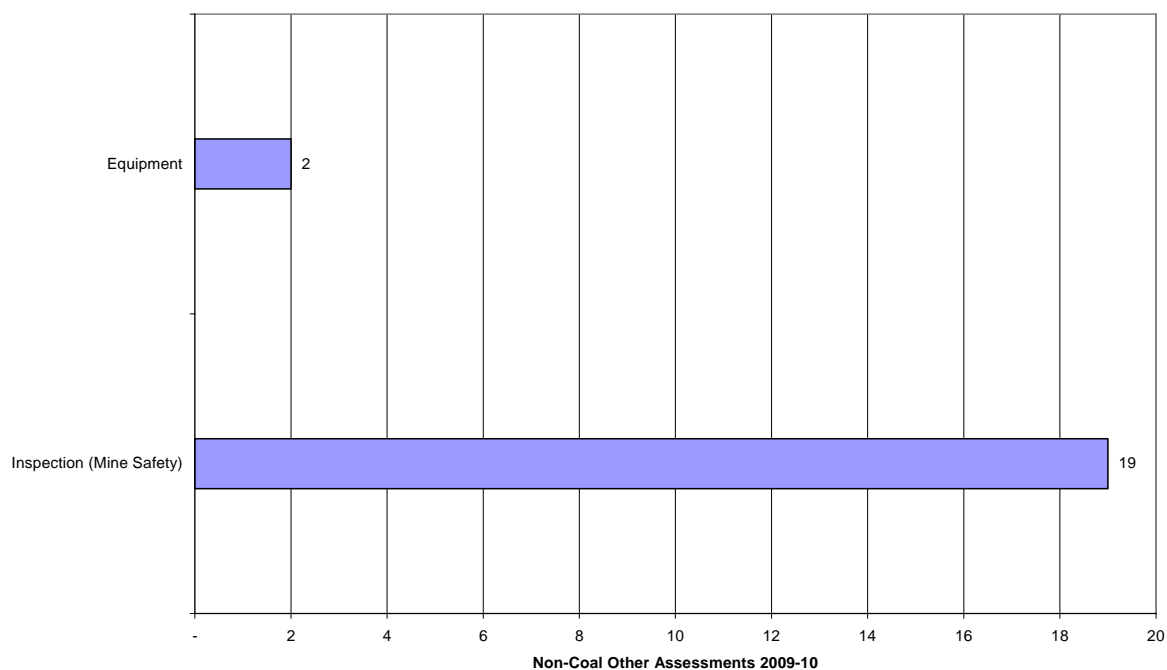
Figure 132

Non-Coal Other Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	18	9	20	12	20	10	13	27	24	12	19	184
Audit	2	3	3	13	3	-	-	1	2	-	-	27
Equipment	-	-	-	-	-	2	-	-	-	-	2	4
Investigation	-	2	-	1	-	-	-	-	-	-	-	3
Verification	1	-	-	-	-	-	-	-	-	1	-	2
Management Plans (Safety)	-	-	1	-	-	-	-	-	-	-	-	1
Total	21	14	24	26	23	12	13	28	26	13	21	221

Figure 133

Non-Coal Other Assessments by Event Subtype 1999-00 to 2009-10



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

5.4 Petroleum (Onshore) Assessments

5.4.1 Petroleum (Onshore) Assessments by Event Subtype

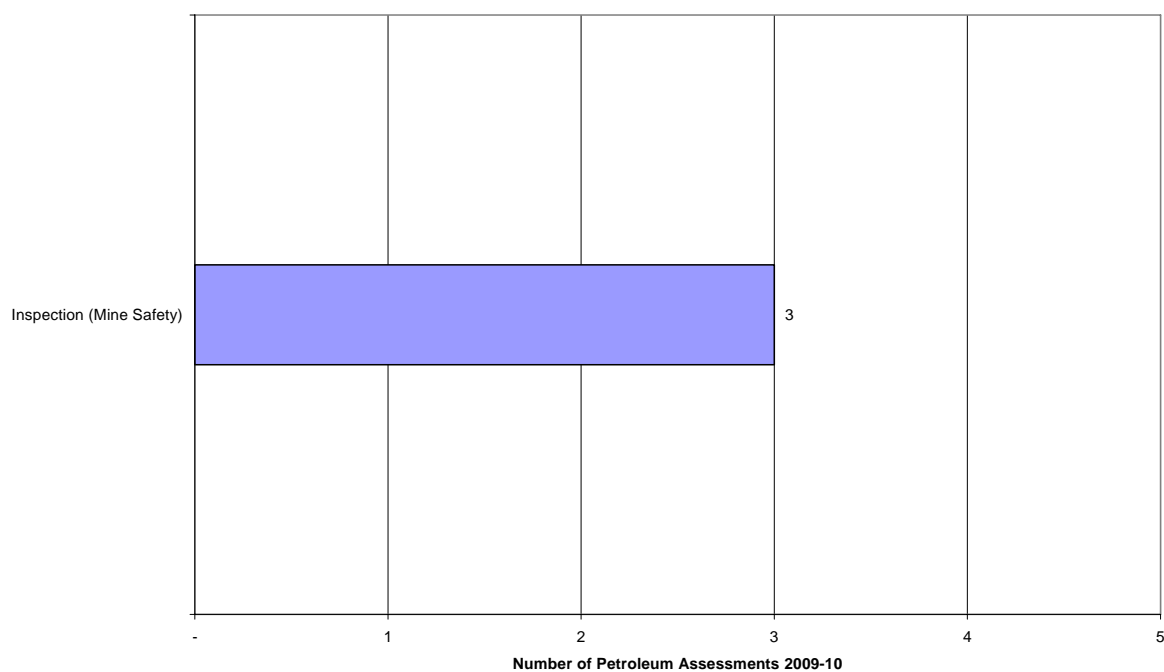
Figure 134

Petroleum (Onshore) Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	-	-	-	-	-	-	-	-	-	-	3	3
Total	-	-	-	-	-	-	-	-	-	-	3	3

Figure 135

Petroleum (Onshore) Assessments by Event Subtype 2009-10



6 ENFORCEMENT NOTICES

6.1 All Enforcement Notices

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

The commencement of new coal legislation (CMHSA 2002 and CMHSR 2006) in mid 2006-07 and new 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 notices issued.

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

6.1.1 All Enforcement Notices by Sector

Figure 136

All Enforcement Notices by Sector 1999-00 to 2009-10

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

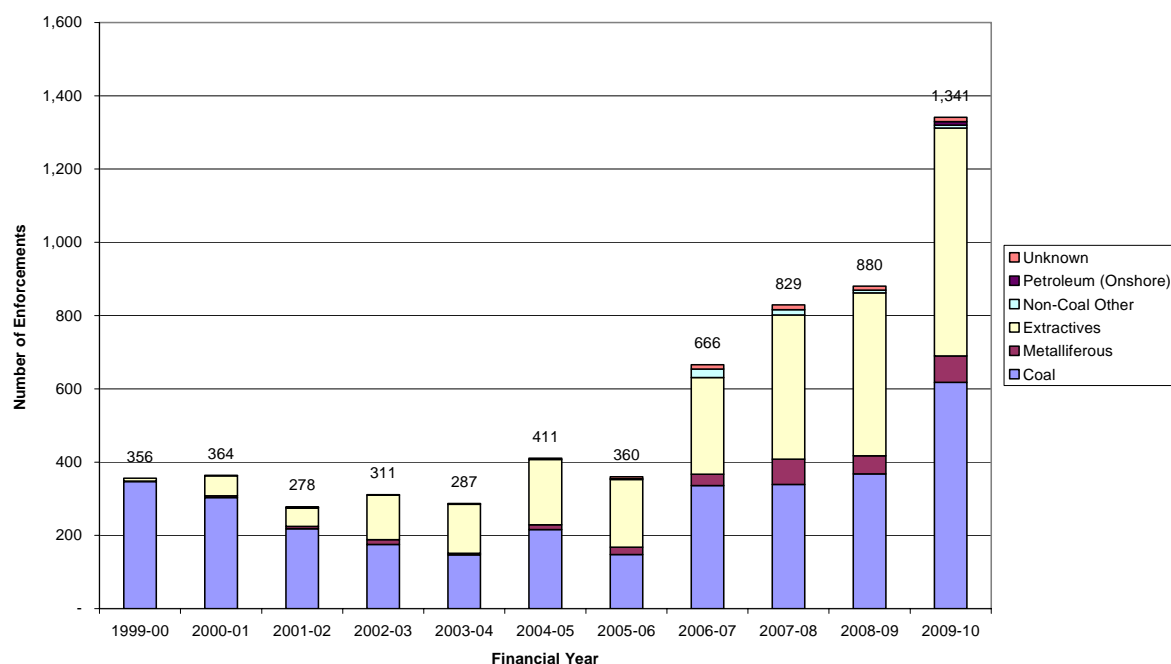
"Unknown" refers to enforcements issued to non-mine organisations

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Coal	347	303	218	175	147	216	148	336	339	368	618	3,215
Metalliferous	1	5	7	13	4	13	20	31	69	49	72	284
Extractives	8	55	50	122	134	178	185	264	394	445	622	2,457
Non-Coal Other	-	-	1	1	1	-	2	23	14	7	8	57
Petroleum (Onshore)	-	-	-	-	-	-	-	-	-	-	9	9
Unknown	-	1	2	-	1	4	5	12	13	11	12	61
Total	356	364	278	311	287	411	360	666	829	880	1,341	6,083

Figure 137

All Enforcement Notices by Sector 1999-00 to 2009-10

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



6.1.2 All Enforcement Notices by Operation Type

Figure 138

All Enforcement Notices by Operation Type 1999-00 to 2009-10

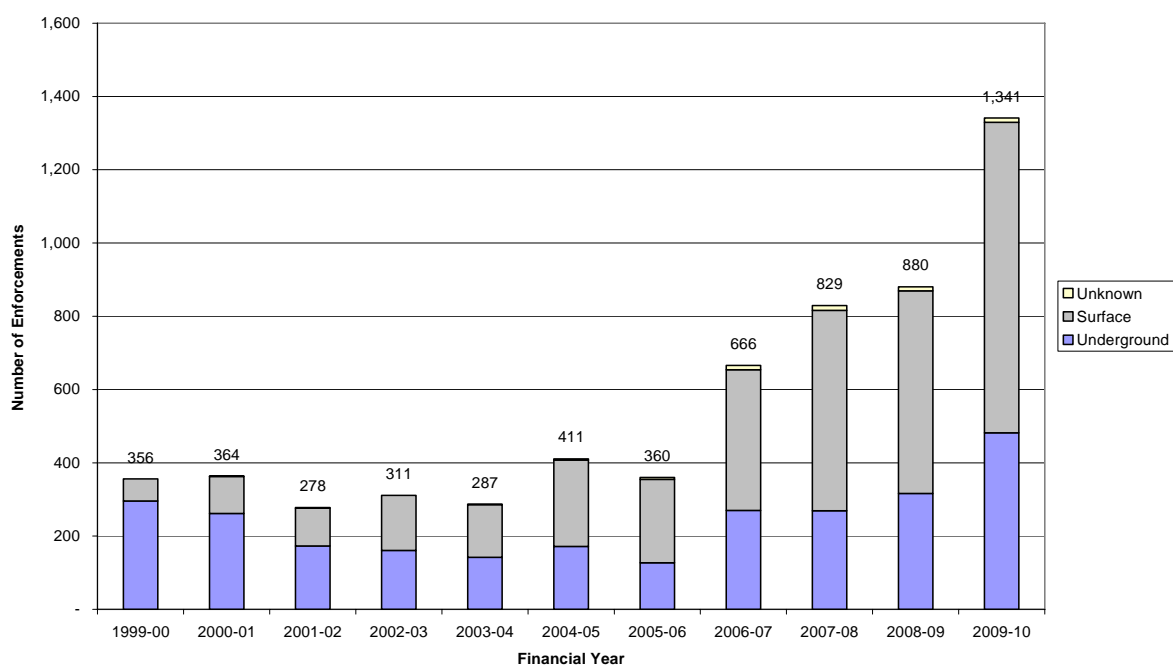
NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09

Operation Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Underground	296	262	173	161	142	172	127	270	269	316	482	2,670
Surface	60	101	103	150	144	235	228	384	547	553	847	3,352
Unknown	-	1	2	-	1	4	5	12	13	11	12	61
Total	356	364	278	311	287	411	360	666	829	880	1,341	6,083

Figure 139

All Enforcement Notices by Operation Type 1999-00 to 2009-10

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

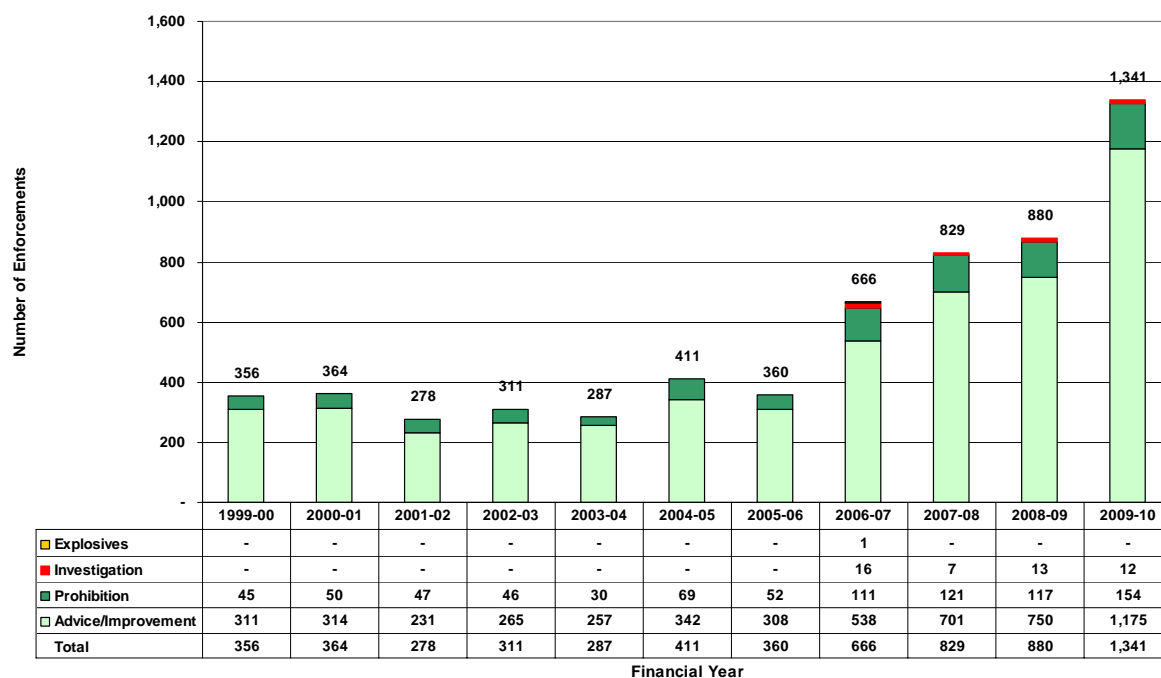


6.1.3 All Enforcement Notices by Enforcement Category

Figure 140

All Enforcement Notices by Enforcement Category 1999-00 to 2009-10

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 Notices by Enforcement Notice Category and Type

6.2 Coal Enforcement Notices

6.2.1 Coal Enforcement Notices by Operation Type

Figure 141

Coal Enforcement Notices by Operation Type 1999-00 to 2009-10

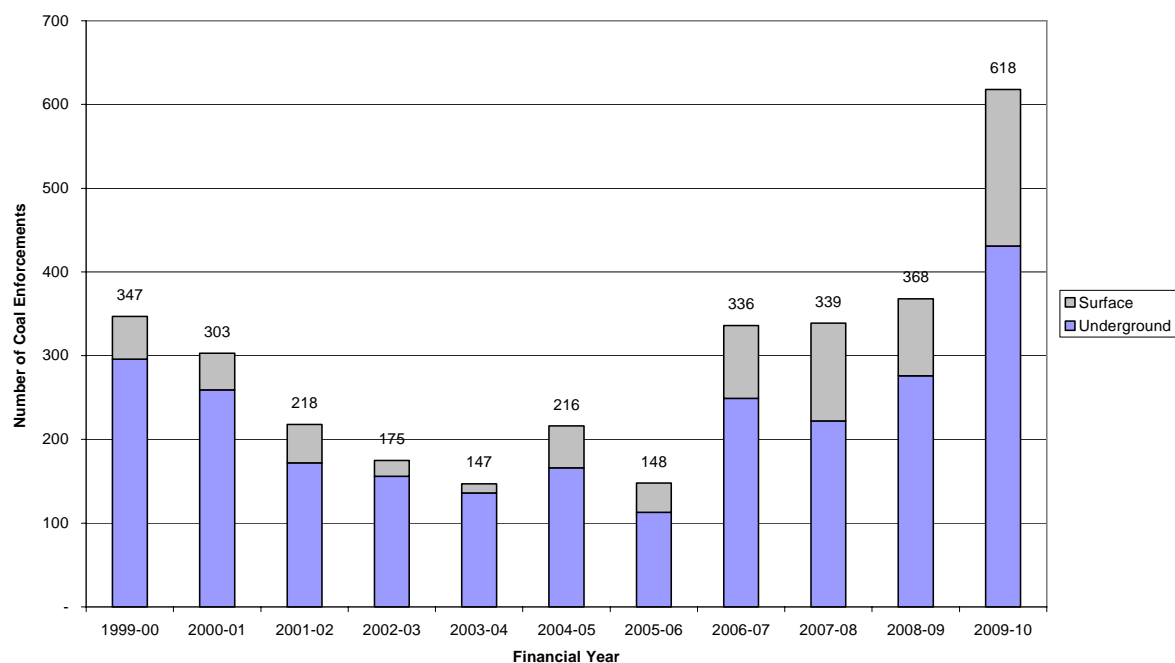
NB CMHSR 2006 commenced mid 2006-07

Operation Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Underground	296	259	172	156	136	166	113	249	222	276	431	2,476
Surface	51	44	46	19	11	50	35	87	117	92	187	739
Total	347	303	218	175	147	216	148	336	339	368	618	3,215

Figure 142

Coal Enforcement Notices 1999-00 to 2009-10

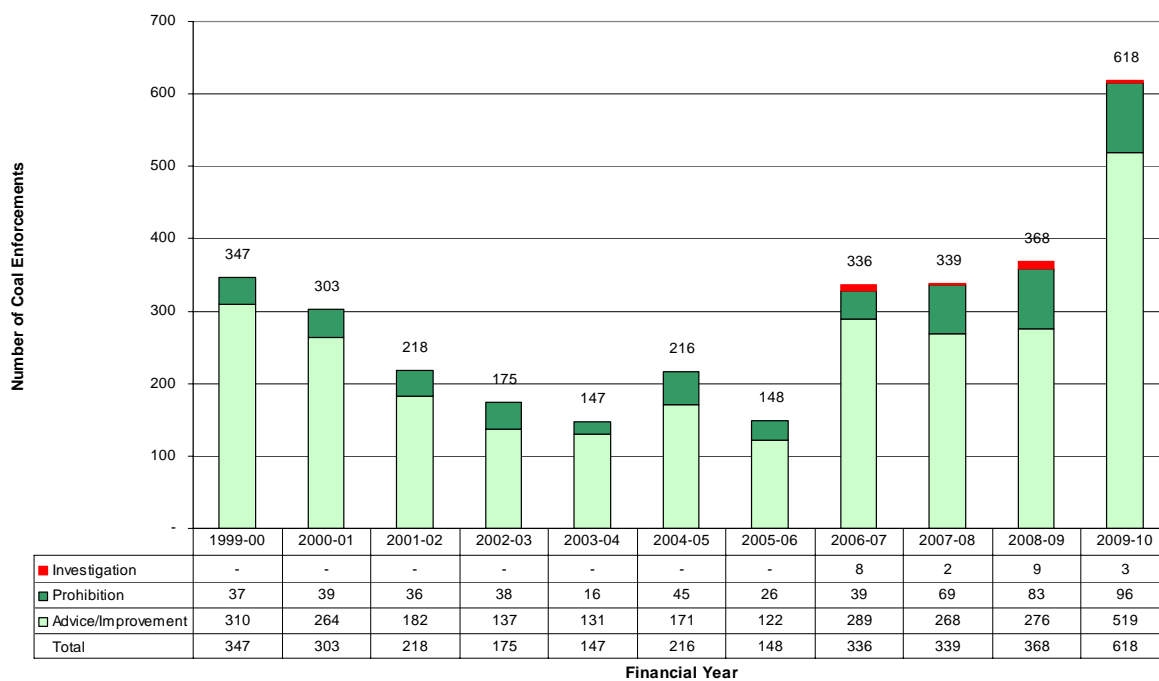
NB CMHSR 2006 commenced mid 2006-07



6.2.2 Coal Enforcement Notices by Enforcement Category

Figure 143

Coal Enforcement Notices by Enforcement Category 1999-00 to 2009-10
 NB CMHSR 2006 commenced mid 2006-07



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

6.3 Non-Coal Enforcement Notices

6.3.1 Non-Coal Enforcement Notices by Operation Type

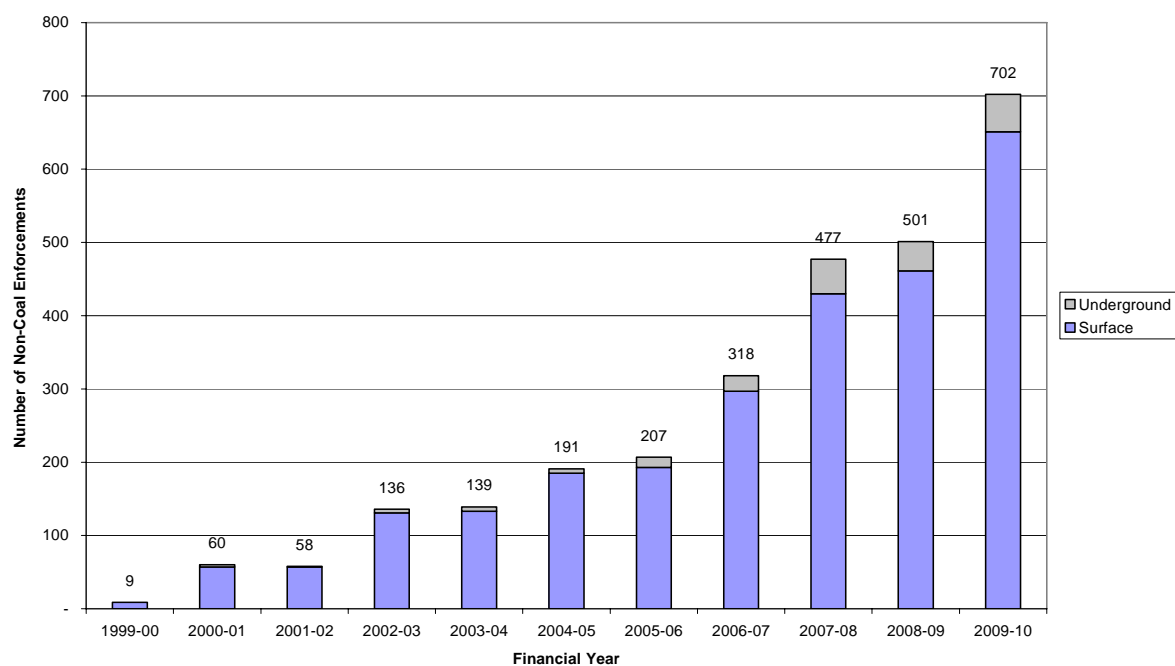
Figure 144

Non-Coal Enforcement Notices by Operation Type 1999-00 to 2009-10
 NB MHSR 2007 commenced Q2 2008-09

Operation Type	Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Surface	Metalliferous	1	2	6	8	-	9	7	12	27	10	23	105
	Extractives	8	55	50	122	132	176	184	262	389	444	620	2,442
	Non-Coal Other	-	-	1	1	1	-	2	23	14	7	8	57
	Total	9	57	57	131	133	185	193	297	430	461	651	2,604
Underground	Metalliferous	-	3	1	5	4	4	13	19	42	39	49	179
	Extractives	-	-	-	-	2	2	1	2	5	1	2	15
	Non-Coal Other	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	3	1	5	6	6	14	21	47	40	51	194
Total	9	60	58	136	139	191	207	318	477	501	702	2,798	

Figure 145

Non-Coal Enforcement Notices 1999-00 to 2009-10
 NB MHSR 2007 commenced Q2 2008-09

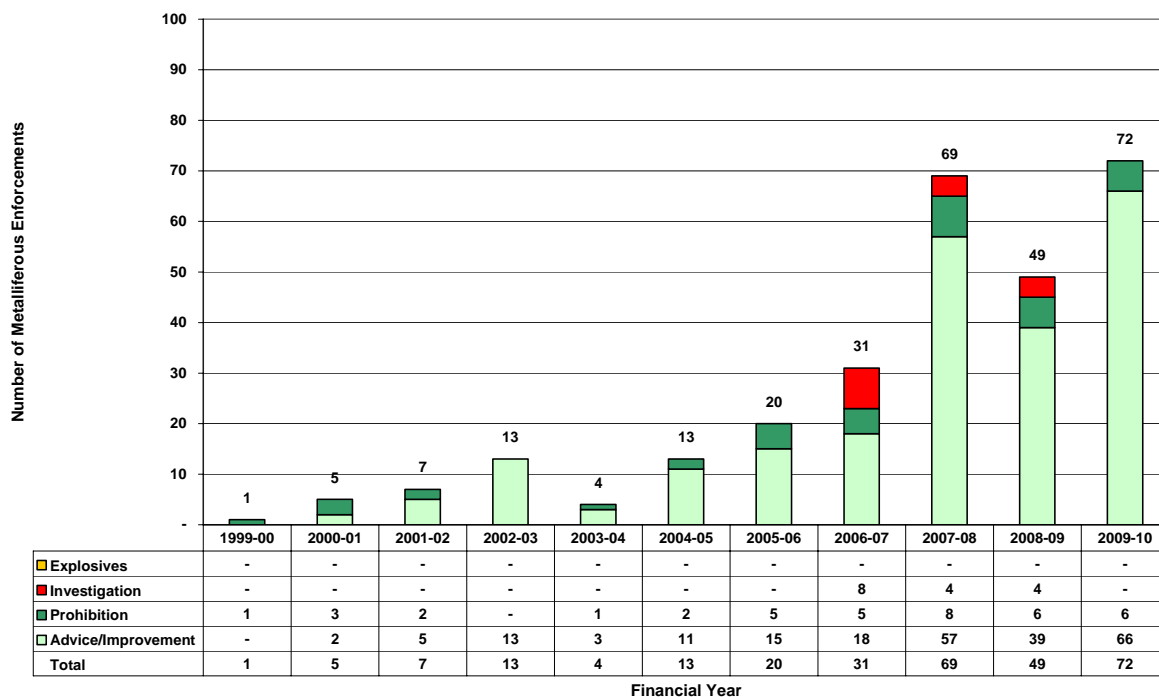


6.3.2 Non-Coal Metalliferous Enforcement Notices by Enforcement Category

Figure 146

Non-Coal Metalliferous Enforcement Notices by Enforcement Category 1999-00 to 2009-10

NB MHSR 2007 commenced Q2 2008-09



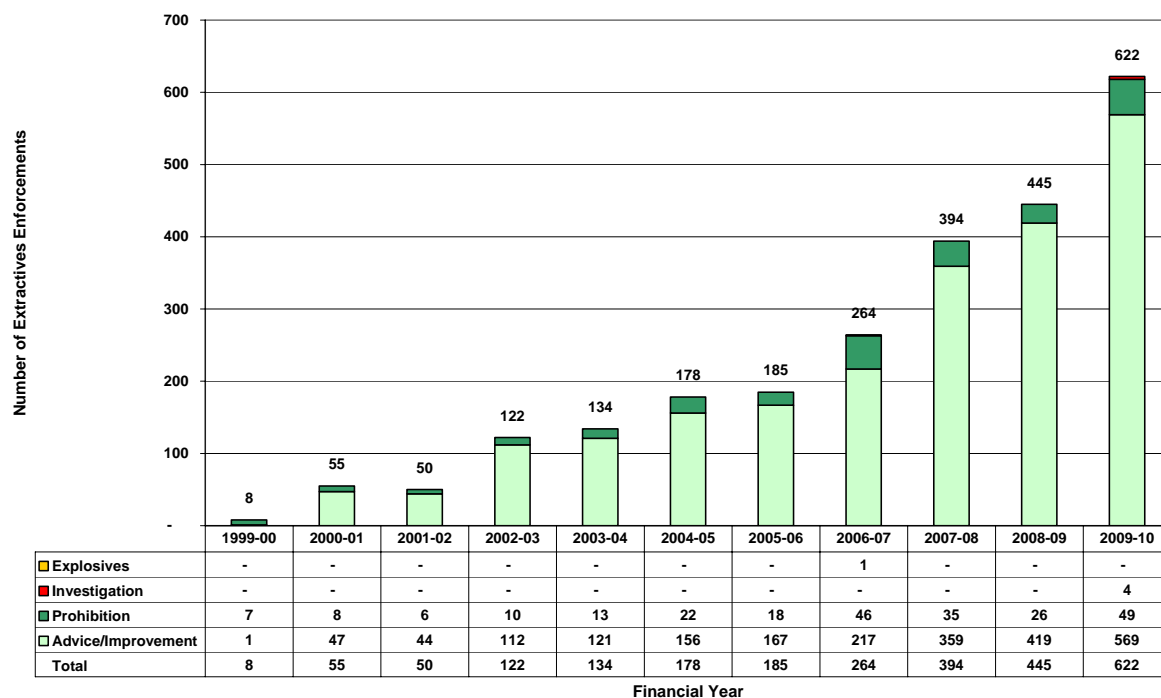
Refer to Appendix A.9 for a more detailed breakdown of Non-Coal Metalliferous Surface and Underground Enforcement Notices by Enforcement Notice Category and Type

6.3.3 Non-Coal Extractives Enforcement Notices by Enforcement Category

Figure 147

Non-Coal Extractives Enforcement Notices by Enforcement Category 1999-00 to 2009-10

NB MHSR 2007 commenced Q2 2008-09

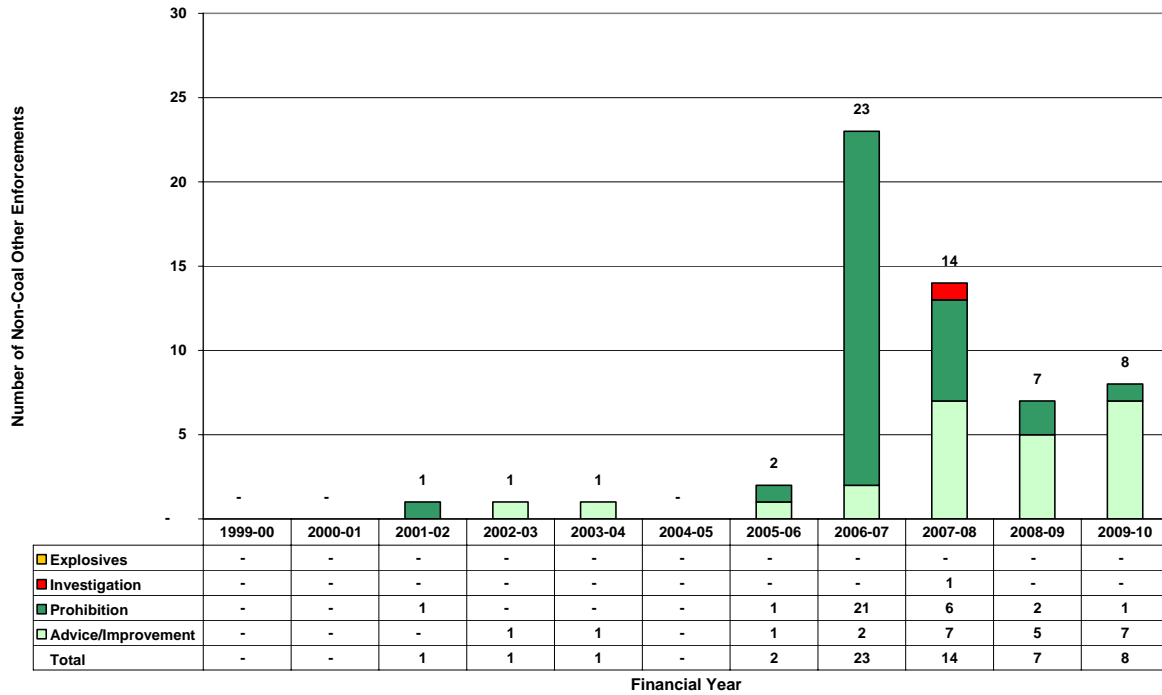


Refer to Appendix A.9 for a more detailed breakdown of Non-Coal Extractives Surface and Underground Enforcement Notices by Enforcement Notice Category and Type

6.3.4 Non-Coal Other Enforcement Notices by Enforcement Category

Figure 148

Non-Coal Other Enforcement Notices by Enforcement Category 1999-00 to 2009-10
 NB MHSR 2007 commenced Q2 2008-09



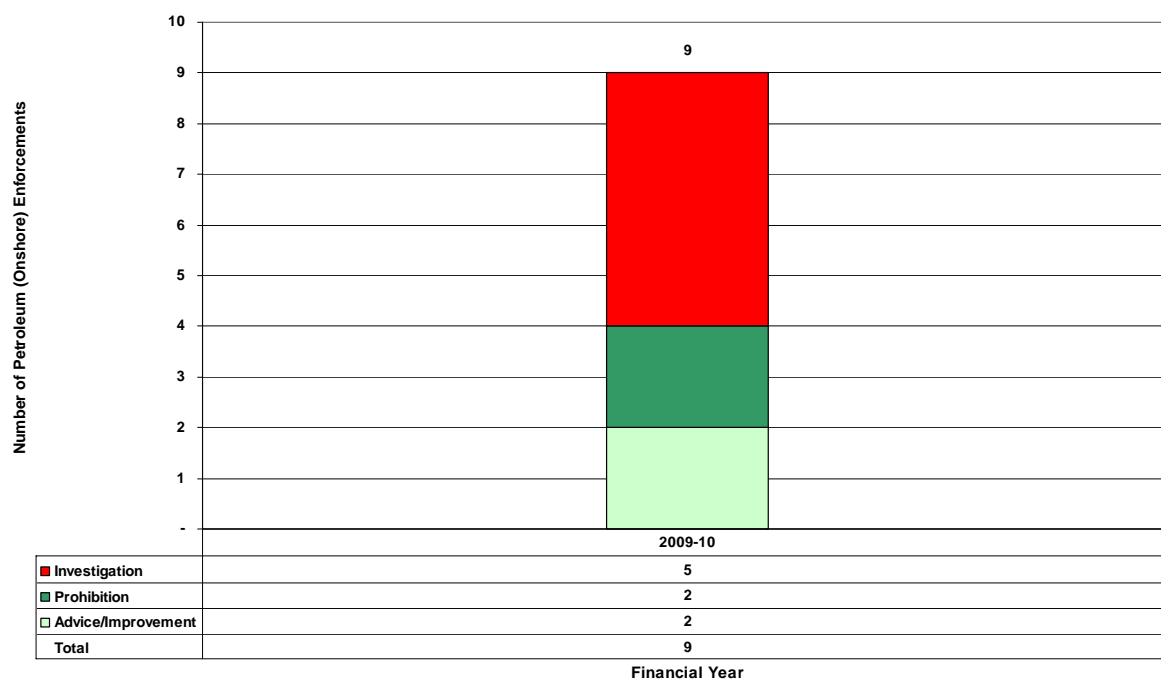
Refer to Appendix A.9 for a more detailed breakdown of Non-Coal Other Enforcement Notices by Enforcement Notice Type

6.4 Petroleum (Onshore) Enforcement Notices

6.4.1 Petroleum (Onshore) Enforcement Notices by Enforcement Category

Figure 149

Petroleum (Onshore) Enforcement Notices by Enforcement Category 2009-10



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

APPENDIX A ADDITIONAL FIGURES

Appendix A.1 Incidents

Figure 150

Coal Surface Incidents by Incident Type and Subtype 1999-00 to 2009-10

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
*CMRA	*1984 Dangerous Occurrence O/C	*Unplanned movement 6(g) CMRA OC	22	3	-	-	-	-	-	-	-	-	-	25	
		*Outbreak of fire 6(a) CMRA OC	12	1	-	-	-	-	-	-	-	-	-	-	13
		*Failure highwall, lowwall, spoil area 6(h) CMRA OC	2	-	-	-	-	-	-	-	-	-	-	-	2
		*Self heating of coal 6(b) CMRA OC	2	-	-	-	-	-	-	-	-	-	-	-	2
		*Electric shock 6(d) CMRA OC	-	1	-	-	-	-	-	-	-	-	-	-	1
		Total	38	5	-	-	-	-	-	-	-	-	-	-	43
	*Serious Bodily Injury CMRA	*Fracture(s)	-	-	2	9	2	-	-	-	-	-	-	-	13
		*Dislocation	-	-	1	-	1	-	-	-	-	-	-	-	2
		*Burns requiring hospital treatment	-	-	1	-	-	-	-	-	-	-	-	-	1
		Total	-	-	4	9	3	-	-	-	-	-	-	-	16
	*CMRA Total	38	5	4	9	3	-	-	-	-	-	-	-	59	
	*CMGMR	*Non Spec Acc Ending in Fat/Injury	*SBI/SI	11	5	5	3	2	7	10	2	-	-	-	45
			*Lost Time Injury	-	1	-	1	1	-	-	2	-	-	-	-
*Fatality			-	-	-	-	1	-	-	-	-	-	-	-	1
*Minor injury			-	-	-	-	-	-	-	-	1	-	-	-	1
*MTI with NO Lost Time			1	-	-	-	-	-	-	-	-	-	-	-	1
Total		12	6	5	4	4	7	10	5	-	-	-	-	53	
*Notifiable Incidents DCCP CMGMR 1999, CI 83		*Elect shock 83(1)(b)	6	4	7	4	4	6	6	2	-	-	-	-	39
		*Unplanned movement 83(1)(c)	5	8	3	1	1	2	5	1	-	-	-	-	26
		*Outbreak fire 83(1)(a)	1	-	-	-	1	-	4	-	-	-	-	-	6
		*Failure structure 83(1)(d)	2	-	1	-	2	-	-	-	-	-	-	-	5
	Total	14	12	11	5	8	8	15	3	-	-	-	-	76	
*CMGMR Total	26	18	16	9	12	15	25	8	-	-	-	-	129		
*CMOCR	*Notifiable Incidents CMOCR 1999, CI 16	*Unplanned movement 16(1)(f)	30	42	32	21	49	26	46	3	-	-	-	249	
		*Elect shock 16(1)(d)	6	13	12	6	8	6	10	5	-	-	-	-	66
		*Outbreak fire 16(1)(a)	7	11	5	7	2	2	5	2	-	-	-	-	41
		*Failure high-lowwall etc 16(1)(g)	3	5	5	2	3	4	3	2	-	-	-	-	27
		*Self heat 16(1)(b)	1	1	-	1	1	-	2	-	-	-	-	-	6
		*Failure structure 16(1)(h)	2	1	-	1	-	-	-	-	-	-	-	-	4
		*Flyrock 16(1)(i)	-	-	-	1	-	1	1	-	-	-	-	-	3
		*Injury from Blasting 16(1)(e)	-	-	-	1	1	-	-	-	-	-	-	-	2
		Total	49	73	54	40	64	39	67	12	-	-	-	-	398
*CMOCR Total	49	73	54	40	64	39	67	12	-	-	-	-	398		
CMHS	CMHSR 2006 CI 55	55(h) collision on surface involving vehicle or mobile plant with gross weight > 2 tonnes	-	-	-	-	-	-	-	30	71	60	67	228	
		55(i) loss of control of heavy vehicle or large plant on surface	-	-	-	-	-	-	-	15	11	22	25	73	
		55(j) overturning of heavy vehicle or large plant on surface	-	-	-	-	-	-	-	4	10	14	10	38	
		55(d)(i) involving electricity, person suffers injury, receives treatment from health professional or unable to attend work	-	-	-	-	-	-	-	3	12	4	7	26	

Coal Surface Incidents by Incident Type and Subtype 1999-00 to 2009-10 continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total		
CMHSR 2006 CI 55		55(c)(vi) unintended activation / movement of vehicles or machinery	-	-	-	-	-	-	-	3	5	5	11	24		
		55(c)(iv) failure of strata / slope stability control measures	-	-	-	-	-	-	-	1	5	6	3	15		
		55(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	-	-	-	-	-	-	-	1	1	2	7	11		
		55(c)(i) damage to any plant / building / structure	-	-	-	-	-	-	-	-	3	3	3	9		
		55(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	5	3	-	8		
		55(k) ejection of fly rock so that it falls outside blast exclusion zone or near people	-	-	-	-	-	-	-	-	-	2	-	3	5	
		55(g) abnormal inrush of fluid	-	-	-	-	-	-	-	-	-	-	1	-	1	
		Total	-	-	-	-	-	-	-	-	57	125	120	136	438	
		CMHS	CMHSR 2006 CI 56(1)	56(1)(n) uncontrolled explosion, fire / misfire of explosives in surface parts	-	-	-	-	-	-	-	35	80	93	88	296
				56(1)(p) unintended activation or movement of vehicles/machinery, no immediate threat to life or incapacitating injury	-	-	-	-	-	-	-	-	20	64	85	82
56(1)(e) contact of person with energised electrical item supplied above extra low voltage	-			-	-	-	-	-	-	-	1	-	8	13	22	
56(1)(o) escape of fluid under pressure that could place any person at risk	-			-	-	-	-	-	-	-	-	4	4	8	16	
56(1)(f) initial self-heating of coal / other material, heating of coal underground parts resulting in withdrawal of people	-			-	-	-	-	-	-	-	4	-	-	-	4	
56(1)(j) burial of machinery, cannot be recovered under own tractive effort	-			-	-	-	-	-	-	-	-	-	2	-	2	
56(1)(h) unplanned fall of roof / roof sides, impedes passage / disrupts mine ventilation / extends outside bolted zone	-			-	-	-	-	-	-	-	-	1	-	-	1	
56(1)(m) the in-service failure of the explosion protection characteristics of explosion-protected plant	-			-	-	-	-	-	-	-	-	-	-	1	1	
Total	-			-	-	-	-	-	-	-	60	149	192	192	593	
CMHSR 2006 CI 57				57(c) the unintended activation or movement of machinery (other than a vehicle)	-	-	-	-	-	-	-	-	-	-	5	5
		Total	-	-	-	-	-	-	-	-	-	-	-	5	5	
Non Spec Acc Ending in Fat/Injury		Notifiable Injury/Outcome	-	-	-	-	-	-	-	31	37	61	41	170		
		Total	-	-	-	-	-	-	-	31	37	61	41	170		
CMHS Total			-	-	-	-	-	-	-	148	311	373	374	1,206		

Coal Surface Incidents by Incident Type and Subtype 1999-00 to 2009-10 continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total		
Explosives	Explosives Regulation 2005	Loss or theft of explosives or explosive precursors CI 39	-	-	-	-	-	-	-	1	-	-	-	1		
		Total	-	-	-	-	-	-	-	-	1	-	-	-	1	
	Explosives Total		-	-	-	-	-	-	-	-	1	-	-	-	1	
N/A	Complaint	Mine Employee Complaint	1	-	-	-	1	-	-	-	1	-	-	3		
		Other	-	-	-	-	-	-	1	-	-	-	-	1		
		Total	1	-	-	-	1	-	-	1	-	1	-	-	4	
	High Potential Incident	Electrical energy from apparatus such as cables, transformers, switch gear, connections	1	-	1	2	4	1	-	-	-	1	-	-	10	
		Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	2	2	-	1	-	2	-	-	2	-	-	-	9	
		Other	2	-	-	-	-	1	-	-	1	-	-	-	4	
		High wall/Pit wall	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, CH4	-	-	-	-	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
		Hydraulic pressure from pump stations & reticulation or equipment	-	1	-	-	-	-	-	-	-	-	-	-	-	1
		Lightning strike	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		Spontaneous combustion such as coal	-	-	1	-	-	-	-	-	-	-	-	-	-	1
		Unknown	-	-	-	-	-	1	-	-	-	-	-	-	-	1
		Water - from rain or storms	-	-	-	-	-	-	1	-	-	-	-	-	-	1
		Total		7	3	3	5	8	5	2	3	3	3	1	1	41
Unknown	Unknown	5	1	16	8	-	-	-	-	-	-	-	-	30		
	Total	5	1	16	8	-	-	-	-	-	-	-	-	30		
N/A Total		13	4	19	13	9	5	3	3	3	4	1	1	75		
Coal Surface Incidents Total			126	100	93	71	88	59	95	172	315	374	375	1,868		

Figure 151

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2009-10

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
*CMRA	*1984 Dangerous Occurrence O/C	*Outbreak of fire 6(a) CMRA OC	-	2	-	-	-	-	-	-	-	-	-	2	
		Total	-	2	-	-	-	-	-	-	-	-	-	-	2
	*1984 Dangerous Occurrence U/G	*Fire below ground 6(b) CMRA UG	12	7	-	-	-	-	-	-	-	-	-	-	19
		*Arcing 6(n) CMRA UG	4	1	-	-	-	-	-	-	-	-	-	-	5
		*Buried continuous miner 7 CMRA UG	2	-	-	-	-	-	-	-	-	-	-	-	2
		*Electric shock 6(l) CMRA UG	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Fire on surface 6(c) CMRA UG	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Ignition of gas not dust 6(a) CMRA UG	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Insurge of gas 6(j) CMRA UG	1	-	-	-	-	-	-	-	-	-	-	-	1
		Total	22	8	-	-	-	-	-	-	-	-	-	-	-
	*Fatality	*Not Applicable	-	-	-	-	1	-	-	-	-	-	-	-	1
		Total	-	-	-	-	1	-	-	-	-	-	-	-	1
	*Serious Bodily Injury CMRA	*Fracture(s)	-	-	3	7	9	-	-	-	-	-	-	-	19
		*Injection hydraulics 85(g)	-	-	-	1	2	-	-	-	-	-	-	-	3
		*Burns requiring hospital treatment	-	2	-	-	-	-	-	-	-	-	-	-	2
		*Dislocation	-	-	-	2	-	-	-	-	-	-	-	-	2
		*Amputation	-	-	-	1	-	-	-	-	-	-	-	-	1
		Total	-	2	3	11	11	-	-	-	-	-	-	-	-
	*CMRA Total		22	12	3	11	12	-	-	-	-	-	-	-	60
*CMGNR	*Non Spec Acc Ending in Fat/Injury	*SBI/SI	25	30	22	14	27	22	16	17	-	-	-	173	
		*Fatality	3	2	2	1	1	-	-	1	-	-	-	-	10
		*Minor injury	-	-	1	1	-	-	1	6	-	-	-	-	9
		*Lost Time Injury	-	-	1	-	-	-	2	4	-	-	-	-	7
		Total	28	32	26	16	28	22	19	28	-	-	-	-	199
	*Notifiable Incidents DCCP CMGNR 1999, CI 83	*Unplanned movement 83(1)(c)	2	4	7	2	-	-	-	-	-	-	-	-	15
		*Outbreak fire 83(1)(a)	1	1	-	2	-	-	-	-	2	-	-	-	6
		*Elect shock 83(1)(b)	-	2	2	-	-	-	-	-	-	-	-	-	4
		*Failure structure 83(1)(d)	1	1	-	-	-	-	-	-	-	-	-	-	2
	Total	4	8	9	4	-	-	-	-	2	-	-	-	27	
*CMGNR Total		32	40	35	20	28	22	19	30	-	-	-	-	226	
*CMUGR	*Dangerous Occurrences CMUGR 1999, CI 34(1)	*Failure explosion protection 34(1)(g)	5	38	44	37	12	-	-	-	-	-	-	-	136
		*Outbreak fire self heat 34(1)(b)	17	18	17	15	17	24	15	6	-	-	-	-	129
		*Ignition gas dust 34(1)(a)	-	2	2	2	8	3	1	5	-	-	-	-	23
		*Damage failure haulage 34(1)(f)	2	4	4	4	-	-	5	-	-	-	-	-	19
		*Failure ventilation 34(1)(c)	-	-	2	2	1	1	1	-	-	-	-	-	7
		*Inrush 34(1)(d)	-	1	-	1	-	1	-	-	-	-	-	-	3
		*Outburst 34(1)(e)	-	1	1	-	-	-	-	1	-	-	-	-	3
		*Ignition explosives 34(1)(h)	-	-	-	-	-	1	-	-	-	-	-	-	1
		*Pillar collapse 34(1)(i)	-	-	-	-	1	-	-	-	-	-	-	-	1
		Total	24	64	70	61	39	30	22	12	-	-	-	-	-
	*Incidents CMUGR 1999, CI 34 (2) Repealed 4/7/2003	*Unplanned movement 34(2)(e)	17	37	51	38	9	-	-	-	-	-	-	-	152
		*Elect shock 34(2)(h)	5	7	7	9	1	-	-	-	-	-	-	-	29
		*Fall roof sides 34(2)(a)	3	6	4	4	2	-	-	-	-	-	-	-	19
		*Entrapment breaker line 34(2)(d)	2	9	2	1	-	-	-	-	-	-	-	-	14
		*Entrapment cont. miner 34(2)	6	2	1	1	-	-	-	-	-	-	-	-	10
		*Windblast 34(2)(b)	-	4	2	-	-	-	-	-	-	-	-	-	6
		*Failure structure 34(2)(g)	2	1	1	1	-	-	-	-	-	-	-	-	5
Total	35	66	68	54	12	-	-	-	-	-	-	-	-	235	

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2009-10 continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
*CMUGR	*Notifiable Incidents CMUGR 1999 CI 34A	*Unplanned movement 34A (1)(b)	-	1	7	-	29	29	57	27	-	-	-	150
		*Elect shock 34A (1)(a)	-	-	-	1	7	8	17	14	-	-	-	47
		*Failure structure 34A (1)c	-	-	-	-	2	1	2	2	-	-	-	7
		Total	-	1	7	1	38	38	76	43	-	-	-	204
	*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)	-	-	1	9	24	39	34	20	-	-	-	127
		*Fall roof sides 34B (1)(b)	-	-	1	-	6	3	4	4	-	-	-	18
		*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	-	-	2	12	47	97	116	59	-	-	-	333
	*CMUGR Total		59	131	147	128	136	165	214	114	-	-	-	1,094
	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
55(e) uncontrolled explosion / fire / misfire of explosives in underground parts			-	-	-	-	-	-	-	4	25	37	29	95
55(h) collision on surface involving vehicle or mobile plant with gross weight > 2 tonnes			-	-	-	-	-	-	-	4	6	16	19	45
55(c)(vi) unintended activation / movement of vehicles or machinery			-	-	-	-	-	-	-	6	14	6	14	40
55(d)(i) involving electricity, person suffers injury, receives treatment from health professional or unable to attend work			-	-	-	-	-	-	-	7	13	13	7	40
55(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person			-	-	-	-	-	-	-	7	8	10	7	32
55(j) overturning of heavy vehicle or large plant on surface			-	-	-	-	-	-	-	-	5	6	5	16
55(i) loss of control of heavy vehicle or large plant on surface			-	-	-	-	-	-	-	4	3	2	1	10
55(c)(ii) imminent risk of explosion or fire			-	-	-	-	-	-	-	2	1	2	3	8
55(c)(iv) failure of strata / slope stability control measures			-	-	-	-	-	-	-	1	3	2	1	7
55(c)(i) damage to any plant / building / structure			-	-	-	-	-	-	-	2	1	-	1	4
55(f) uncontrolled outburst of gas			-	-	-	-	-	-	-	-	-	1	2	3
55(g) abnormal inrush of fluid			-	-	-	-	-	-	-	-	-	1	-	1
Total		-	-	-	-	-	-	-	51	91	127	143	412	

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2009-10 continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
CMHS	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	2,543	
		56(1)(o) escape of fluid under pressure that could place any person at risk	-	-	-	-	-	-	-	236	357	278	200	1,071	
		56(1)(m) in-service failure of explosion-protection characteristics	-	-	-	-	-	-	-	57	137	323	478	995	
		56(1)(p) unintended activation or movement of vehicles/machinery, no immediate threat to life or incapacitating injury	-	-	-	-	-	-	-	-	69	121	164	218	572
		56(1)(l) event in hazardous zone, underground parts, electric arc observed or leaves visible evidence on electric cable	-	-	-	-	-	-	-	-	49	69	76	82	276
		56(1)(h) unplanned fall of roof / roof sides, impedes passage / disrupts mine ventilation / extends outside bolted zone	-	-	-	-	-	-	-	-	20	27	29	24	100
		56(1)(n) uncontrolled explosion, fire / misfire of explosives in surface parts	-	-	-	-	-	-	-	-	-	12	3	10	25
		56(1)(e) contact of person with energised electrical item supplied above extra low voltage	-	-	-	-	-	-	-	-	5	4	3	8	20
		56(1)(j) burial of machinery, cannot be recovered under own tractive effort	-	-	-	-	-	-	-	-	1	4	1	4	10
		56(1)(f) initial self-heating of coal / other material, heating of coal underground parts resulting in withdrawal of people	-	-	-	-	-	-	-	-	-	-	4	3	7
	56(1)(i) windblast results in injuries requiring treatment by medical practitioner	-	-	-	-	-	-	-	-	-	1	-	-	1	
	Total			-	-	-	-	-	-	-	724	1,386	1,687	1,823	5,620
	CMHSR 2006 CI 57		57(c) the unintended activation or movement of machinery (other than a vehicle)	-	-	-	-	-	-	-	-	-	-	1	1
Total			-	-	-	-	-	-	-	-	-	-	-	1	1
Non Spec Acc Ending in Fat/Injury		Notifiable Injury/Outcome	-	-	-	-	-	-	-	184	446	368	376	1,374	
		Total	-	-	-	-	-	-	-	184	446	368	376	1,374	
CMHS Total			-	-	-	-	-	-	-	959	1,923	2,182	2,343	7,407	
N/A	Complaint	Other	2	1	-	-	-	1	1	-	-	-	-	5	
		Mine Employee Complaint	2	-	1	-	-	-	-	-	-	-	1	-	4
		Public Complaint	1	-	-	-	-	-	-	-	-	1	-	-	2
		Total	5	1	1	-	-	-	1	1	-	1	1	-	11
	High Potential Incident	Electrical energy from apparatus such as cables, transformers, switch gear, connections	2	1	4	4	5	3	3	4	4	2	1	-	29
Mining equipment such as continuous miners, excavators, drills, shovels		4	1	1	2	2	6	1	-	-	1	-	-	18	
Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders		5	2	1	-	-	-	1	1	-	2	-	-	12	
Other		-	-	1	3	1	4	-	-	1	-	1	1	12	

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2009-10 continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
N/A	High Potential Incident	Hydraulic pressure from pump stations & reticulation or equipment	-	1	-	1	1	1	2	2	1	-	-	9	
		Fixed mechanical equipment such as conveyors, crushers, screens	1	3	2	-	-	-	-	1	-	-	-	-	7
		Explosive gases such as H ₂ , CH ₄	-	1	-	1	2	-	-	-	-	2	-	1	7
		Dusts that can effect health such as coal, silica	-	2	1	1	-	-	-	-	-	-	-	1	5
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	-	-	-	2	-	1	-	-	-	-	1	4
		Rib/sides	-	-	1	-	-	-	1	-	-	-	-	-	2
		Slopes/grades/ramps where equipment can move in a uncontrolled manner	2	-	-	-	-	-	-	-	-	-	-	-	2
		Water - in large volumes	-	-	-	-	-	-	1	-	-	-	1	-	2
		Explosive dusts such as coal, sulphide dust	-	-	-	-	-	-	-	-	-	-	1	-	1
		Fines or build up of combustible particles	1	-	-	-	-	-	-	-	-	-	-	-	1
		Flammable gases such as Acetylene, LPG	-	-	-	-	-	-	-	1	-	-	-	-	1
		Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	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
		Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	-	-	-	-	-	-	-	1	-	-	-	-	1
		Unknown	-	-	-	-	1	-	-	-	-	-	-	-	1
		Water - from rain or storms	-	-	-	1	-	-	-	-	-	-	-	-	1
		Water pressure from pump stations & reticulation or equipment	-	-	-	-	-	-	-	-	-	1	-	-	1
		Wildlife such as kangaroos, snakes, spiders	-	-	-	-	-	-	-	-	-	-	-	1	1
		Total			17	11	11	13	15	19	10	8	9	4	6
UNKNOWN			8	2	23	10	-	-	-	-	-	-	-	43	
N/A Total			30	14	35	23	15	20	11	8	10	5	6	177	
Coal Underground Incidents Total			143	197	220	182	191	207	244	1,111	1,933	2,187	2,349	8,964	

Figure 152

Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 1999-00 to 2009-10

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
*MIA	*1994 Emergency MIA	*Failure of workings of mine MIA	5	-	-	-	-	-	-	-	-	-	-	5	
		*Machinery out of control MIA	5	-	-	-	-	-	-	-	-	-	-	5	
		*Outbreak of fire MIA	5	-	-	-	-	-	-	-	-	-	-	5	
		*Potential to cause serious injury	2	-	-	-	-	-	-	-	-	-	-	2	
		*Explosion/ignition dust MIA	1	-	-	-	-	-	-	-	-	-	-	1	
		*Exposure hazardous materials MIA	1	-	-	-	-	-	-	-	-	-	-	1	
		Total	19	-	-	-	-	-	-	-	-	-	-	-	19
	*Pre Sept 2000 Dangerous Incident MIA	*Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	1	4	9	-	-	-	-	-	-	-	-	-	14
		*Electrical energy from apparatus such as cables, transformers, switch gear, connections	2	3	3	-	-	-	-	-	-	-	-	-	8
		*High wall/Pit wall	-	-	3	-	-	-	-	-	-	-	-	-	3
		*Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	-	3	-	-	-	-	-	-	-	-	-	-	3
		*Flammable gases such as Acetylene, LPG	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	-	-	1	-	-	-	-	-	-	-	-	-	1
		*Mining equipment such as continuous miners, excavators, drills, shovels	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Slopes/grades/ramps where equipment can move in an uncontrolled manner	-	-	1	-	-	-	-	-	-	-	-	-	1
	Total	5	10	17	-	-	-	-	-	-	-	-	-	32	
	*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	5	7	4	-	-	32
		*Mobile Plant - general transport/traffic	-	-	-	3	1	6	11	2	2	-	-	-	25
		*Mobile Plant - fires on equipment (surface)	-	-	3	5	5	2	2	-	1	-	-	-	18
		*Outbreak of fire due to electrical equipment CI 68(5)(c)	-	-	2	-	1	1	1	-	1	-	-	-	6
		*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	-	-	-	-	-	-	-	2
		*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	-	-	6	17	16	17	24	14	12	-	-	-	106		

Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 1999-00 to 2009-10 continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
*MIA	*Non Spec Acc Ending in Fat/Injury	*SBI/SI	-	2	-	1	1	1	2	5	1	1	-	14	
		*Lost Time Injury	8	-	-	-	-	-	1	-	-	-	-	9	
		*Minor injury	1	-	-	-	-	-	-	-	-	-	-	1	
	*MIA Total		9	2	-	1	1	1	3	5	1	1	-	24	
			33	12	23	20	21	18	27	19	13	1	-	187	
Explosives	Explosives Regulation 2005	Serious Incidents involving explosives Cl 75	-	-	-	-	-	-	-	1	-	-	-	1	
		Total	-	-	-	-	-	-	-	1	-	-	-	1	
Explosives Total			-	-	-	-	-	-	-	1	-	-	-	1	
MHS	MHSR 2007 Cl 145	145(e) uncontrolled explosion or fire	-	-	-	-	-	-	-	-	-	15	17	32	
		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	5	9	
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	-	-	-	1	6	7	
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	-	-	-	1	4	5	
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	2	3	5	
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	-	-	-	1	3	4	
		145(j) the loss of control of a vehicle or other machinery at the mine	-	-	-	-	-	-	-	-	-	-	2	2	
		145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	-	-	-	1	-	1	
		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	1	
		145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	-	-	-	1	-	1	
		145(p) burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	1	-	1	
		Total		-	-	-	-	-	-	-	-	-	27	41	68
		Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	-	3	7
Total	-		-	-	-	-	-	-	-	-	-	3	7	10	
MHS Total			-	-	-	-	-	-	-	-	-	30	48	78	
N/A	Complaint	Mine Employee Complaint	-	2	1	-	2	3	1	-	3	2	6	20	
		Public Complaint	-	-	1	-	2	3	1	-	1	-	1	9	
		Other	-	-	-	-	1	1	3	-	2	-	-	7	
		Total	-	2	2	-	5	7	5	-	6	2	7	36	
	High Potential Incident	Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	-	2	3	1	4	8	3	4	1	4	2	32	
		Electrical energy from apparatus such as cables, transformers, switch gear, connections	1	-	1	1	2	-	3	3	6	1	1	19	
Other		-	1	1	1	-	2	-	1	2	-	2	10		

Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 1999-00 to 2009-10 continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
		Mining equipment such as continuous miners, excavators, drills, shovels	-	-	-	-	-	2	-	1	2	2	-	7
		High wall/Pit wall	-	-	-	-	-	1	-	2	3	-	-	6
		Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	-	-	-	-	-	-	1	2	1	-	-	4
		Slopes/grades/ramps where equipment can move in an uncontrolled manner	-	-	-	1	1	-	-	1	-	-	-	3
		Explosive Incident not a Dangerous Incident	-	-	-	-	-	-	-	-	2	-	1	3
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	1	-	-	-	-	1	-	-	-	-	-	2
		Fixed mechanical equipment such as conveyors, crushers, screens	1	-	-	1	-	-	-	-	-	-	-	2
		Stored pressure/energy such as accumulators, spring/tension devices	-	-	-	-	1	-	-	-	-	1	-	2
		Biological such as exposure to work related bacteria	-	1	-	-	-	-	-	-	-	-	-	1
		Explosive gases such as H ₂ , CH ₄	-	-	-	1	-	-	-	-	-	-	-	1
		Total	3	4	5	6	8	14	7	14	17	8	6	92
	UNKNOWN	UNKNOWN	2	-	-	-	-	-	-	-	-	-	-	2
		Total	2	-	-	-	-	-	-	-	-	-	-	2
	N/A Total		5	6	7	6	13	21	12	14	23	10	13	130
Non-Coal Metalliferous Surface Incidents Total			38	18	30	26	34	39	39	34	36	41	61	396

Figure 153

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 1999-00 to 2009-10

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
*MIA	*1994 Emergency MIA	*Machinery out of control MIA	15	1	1	-	-	-	-	-	-	-	-	17	
		*Outbreak of fire MIA	7	3	2	-	-	-	-	-	-	-	-	-	12
		*Potential to cause serious injury	7	2	-	-	-	-	-	-	-	-	-	-	9
		*Failure of workings of mine MIA	4	-	-	-	-	-	-	-	-	-	-	-	4
		*Inrush of water MIA	1	-	-	-	-	-	-	-	-	-	-	-	1
		Total	34	6	3	-	-	-	-	-	-	-	-	-	43
	*Fatality	*Not Applicable	-	-	-	1	-	-	-	-	-	-	-	-	1
		Total	-	-	-	1	-	-	-	-	-	-	-	-	1
	*Minor Accident MIA	*Lost Time Injury	-	-	-	3	-	-	-	-	-	-	-	-	3
		*MTI with NO Lost Time	-	-	1	1	-	-	-	-	-	-	-	-	2
		Total	-	-	1	4	-	-	-	-	-	-	-	-	5
	*Pre Sept 2000 Dangerous Incident MIA	*Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	3	24	20	-	-	-	-	-	-	-	-	-	47
		*Electrical energy from apparatus such as cables, transformers, switch gear, connections	2	12	6	-	-	-	-	-	-	-	-	-	20
		*Other	-	3	2	-	-	-	-	-	-	-	-	-	5
		*Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	2	2	1	-	-	-	-	-	-	-	-	-	5
		*Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	3	1	-	-	-	-	-	-	-	-	-	-	4
		*Roof/back	2	-	1	-	-	-	-	-	-	-	-	-	3
		*Water - in large volumes	1	-	1	1	-	-	-	-	-	-	-	-	3
		*Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	1	1	-	-	-	-	-	-	-	-	-	2
		*Fixed mechanical equipment such as conveyors, crushers, screens	1	-	1	-	-	-	-	-	-	-	-	-	2
		*Flammable gases such as Acetylene, LPG	1	1	-	-	-	-	-	-	-	-	-	-	2
		*High wall/Pit wall	-	1	1	-	-	-	-	-	-	-	-	-	2
		*Mining equipment such as continuous miners, excavators, drills, shovels	-	2	-	-	-	-	-	-	-	-	-	-	2
		*Rib/sides	-	2	-	-	-	-	-	-	-	-	-	-	2
		*Stored pressure/energy such as accumulators, spring/tension devices	-	1	1	-	-	-	-	-	-	-	-	-	2
		*Explosive dusts such as coal, sulphide dust	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Other gases with health effects such as	-	1	-	-	-	-	-	-	-	-	-	-	1
*Water - from rain or storms		-	1	-	-	-	-	-	-	-	-	-	-	1	
		Total	16	52	35	1	-	-	-	-	-	-	-	-	104
*Serious Injury MIA		*Fracture(s)	-	-	3	1	4	-	-	-	-	-	-	-	8
	Total	-	-	3	1	4	-	-	-	-	-	-	-	8	
Dangerous Incident	*Mobile Plant - fires on equipment (underground)	-	-	1	3	4	9	26	29	9	-	-	-	81	
	*Electric shock cl 68 (5)	-	1	7	10	11	13	7	7	8	1	-	-	65	
	*Mobile Plant - fires on equipment (surface)	-	-	6	14	14	3	1	1	2	-	-	-	41	
	*Outbreak of Fire U/G	-	-	8	9	14	3	2	-	1	-	-	-	37	

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 1999-00 to 2009-10
continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total		
*MIA	*Dangerous Incident	*Mobile Plant - general transport/traffic	-	1	1	3	2	4	13	5	2	3	-	34		
		*Rock falls - (major) Ground Movement	-	-	4	1	2	7	2	1	-	-	-	-	17	
		*Outbreak of fire due to electrical equipment CI 68(5)(c)	-	-	2	5	1	3	1	-	-	-	-	-	12	
		*Isolation of energy	-	-	1	1	3	1	1	2	-	-	-	-	9	
		*Inrush of Water , Material or Gas	-	1	-	-	1	1	2	-	3	-	-	-	8	
		*Structural Failure	-	-	-	-	-	-	-	4	2	2	-	-	8	
		*Unplanned movement due to electricity CI 68(5)(d)	-	1	1	2	1	2	1	-	-	-	-	-	8	
		*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 CI 65(1)	-	-	-	-	2	-	-	-	-	-	-	-	2	
		*Ventilation U/G - fumes	-	-	-	1	-	1	-	-	-	-	-	-	-	2
	*Hazardous chemicals	-	-	-	-	-	-	-	1	-	-	-	-	-	1	
	*Working at height	-	-	-	-	-	-	-	1	-	-	-	-	-	1	
	Total			-	4	31	49	57	53	64	49	27	5	-	339	
	*Non Spec Acc Ending in Fat/Injury	*Lost Time Injury		46	-	1	-	-	2	3	2	5	-	-	59	
		*SBI/SI		7	6	4	-	2	1	5	8	3	3	-	39	
		*Fatality		3	-	1	1	-	-	-	1	-	-	-	6	
		*MTI with NO Lost Time		4	1	-	-	-	-	-	-	-	-	-	5	
*Minor injury			-	-	-	-	1	-	-	2	-	-	-	3		
Total			60	7	6	1	3	3	8	13	8	3	-	112		
*MIA Total		110	69	79	57	64	56	72	62	35	8	-	612			
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	-	-	-	-	-	-	-	-	-	22	28	50		
		145(j) loss of control of vehicle or other machinery	-	-	-	-	-	-	-	-	-	10	12	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	-	-	-	-	-	-	-	-	-	-	2	12	14	
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	4	7	11		
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	-	-	-	4	5	9		
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	-	-	-	-	3	5	8	
		145(m) failure of any part of powered winding system or damage to shaft or shaft equipment	-	-	-	-	-	-	-	-	-	-	4	4	8	
		145(p) burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	-	2	6	8	
		145(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	-	-	-	-	-	-	-	-	-	-	3	2	5	
145(g) uncontrolled issue of gas or fluids	-	-	-	-	-	-	-	-	-	-	2	3	5			

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 1999-00 to 2009-10
continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
MHS	MHSR 2007 CI 145	145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	-	-	-	3	1	4	
		145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	-	-	-	-	4	4
		145(c)(i) damage to any plant, equipment, building or structure,	-	-	-	-	-	-	-	-	-	-	-	3	3
		145(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	-	-	3	-	3
		145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	-	-	-	-	1	3	4
		145(i)	-	-	-	-	-	-	-	-	-	-	-	1	1
		Total	-	-	-	-	-	-	-	-	-	-	63	96	159
	MHSR 2007 CI 146(1)	146(1)(e) a significant misfire of explosives	-	-	-	-	-	-	-	-	-	-	-	1	1
		Total	-	-	-	-	-	-	-	-	-	-	-	1	1
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	-	7	13	20
	Total	-	-	-	-	-	-	-	-	-	-	7	13	20	
	MHS Total	-	-	-	-	-	-	-	-	-	-	70	110	180	
N/A	Complaint	Mine Employee Complaint	1	1	4	2	3	-	2	4	2	4	5	28	
		Public Complaint	-	1	3	1	4	4	4	1	1	1	2	22	
		Other	2	-	-	-	1	-	-	1	-	-	-	4	
		Union Official Complaint	-	-	-	-	-	-	-	-	-	2	1	-	3
		Total	3	2	7	3	8	4	6	6	5	6	7	57	
	High Potential Incident	Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	4	8	5	12	10	24	23	22	20	10	1	139	
		Electrical energy from apparatus such as cables, transformers, switch gear, connections	7	10	6	2	3	3	3	6	3	2	-	45	
		Other	2	-	3	3	5	7	3	7	5	-	2	37	
		Roof/backsc	-	5	2	7	2	4	2	-	2	3	-	27	
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	-	2	-	2	3	4	3	4	1	-	19	
		Fixed mechanical equipment such as conveyors, crushers, screens	-	1	2	5	2	2	2	-	1	-	-	15	
		Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	1	2	-	4	-	1	-	-	3	-	1	12	
		Rib/sides	-	-	-	3	2	-	1	-	2	1	1	10	
		Explosive gases such as H ₂ , CH ₄	-	-	1	-	4	-	-	1	-	-	-	6	
		Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	-	1	-	1	-	-	-	2	1	1	-	6	
		Mining equipment such as continuous miners, excavators, drills, shovels	-	-	-	-	-	-	1	-	2	2	-	1	6

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 1999-00 to 2009-10
continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total		
N/A	High Potential Incident	Flammable gases such as Acetylene, LPG	-	-	2	-	-	-	-	-	1	1	-	4		
		Other gases with health effects such as	-	-	-	-	-	-	-	-	1	3	-	-	4	
		Slopes/grades/ramps where equipment can move in a uncontrolled manner	1	-	1	2	-	-	-	-	-	-	-	-	4	
		Stored pressure/energy such as accumulators, spring/tension devices	-	-	1	2	-	-	-	-	-	1	-	-	4	
		Explosive dusts such as coal, sulphide dust	2	-	-	-	-	-	-	-	-	-	-	1	3	
		Explosive Incident not a Dangerous Incident	-	-	-	-	-	-	-	-	-	3	-	-	3	
		Dusts that can effect health such as coal, silica	-	-	-	1	-	-	-	-	1	-	-	-	-	2
		Floor	-	-	-	-	-	-	1	-	-	-	1	-	-	2
		Spontaneous combustion such as coal	1	-	-	1	-	-	-	-	-	-	-	-	-	2
		Fines or build up of combustible particles	-	-	-	-	-	-	1	-	-	-	-	-	-	1
		Low wall	-	-	-	1	-	-	-	-	-	-	-	-	-	1
		Noise greater than 85dBA	-	1	-	-	-	-	-	-	-	-	-	-	-	1
		Outbreak of Fire U/G	-	-	-	-	-	-	1	-	-	-	-	-	-	1
		Water - from rain or storms	-	-	-	-	-	-	-	-	-	-	1	-	-	1
		Water - in large volumes	-	1	-	-	-	-	-	-	-	-	-	-	-	1
		Wildlife such as kangaroos, snakes, spiders	-	-	-	-	-	-	-	-	-	-	1	-	-	1
		Total			18	29	25	44	30	48	38	45	54	19	7	357
	UNKNOWN	Unknown		8	1	-	2	-	-	-	-	-	-	-	11	
		Total		8	1	-	2	-	-	-	-	-	-	-	11	
	N/A Total			29	32	32	49	38	52	44	51	59	25	14	425	
Non-Coal Metalliferous Underground Incidents Total			139	101	111	106	102	108	116	114	94	103	124	1,218		

Figure 154

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 1999-00 to 2009-10

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
*MIA	*1994 Emergency MIA	*Potential to cause serious injury	11	1	-	-	-	-	-	-	-	-	-	12	
		*Machinery out of control MIA	10	1	-	-	-	-	-	-	-	-	-	-	11
		*Failure of workings of mine MIA	5	-	-	-	-	-	-	-	-	-	-	-	5
		*Outbreak of fire MIA	4	-	-	-	-	-	-	-	-	-	-	-	4
		*Exposure hazardous materials MIA	2	-	-	-	-	-	-	-	-	-	-	-	2
		*Spillage MIA	1	-	-	-	-	-	-	-	-	-	-	-	1
		Total	33	2	-	-	-	-	-	-	-	-	-	-	35
	*Minor Accident MIA	*Lost Time Injury	-	-	-	3	-	-	-	-	-	-	-	-	3
		*MTI with NO Lost Time	-	-	-	1	-	-	-	-	-	-	-	-	1
		Total	-	-	-	4	-	-	-	-	-	-	-	-	4
	*Pre Sept 2000 Dangerous Incident MIA	*Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	3	5	4	-	-	-	-	-	-	-	-	-	12
		*Other	2	3	2	-	-	-	-	-	-	-	-	-	7
		*Fixed mechanical equipment such as conveyors, crushers, screens	2	-	1	-	-	-	-	-	-	-	-	-	3
		*Floor	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Slopes/grades/ramps where equipment can move in a uncontrolled manner	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
		Total	9	8	9	-	-	-	-	-	-	-	-	-	26
	*Serious Injury MIA	*Fracture(s)	-	-	4	3	3	-	-	-	-	-	-	-	10
		*Burns requiring hospital treatment	-	-	-	1	-	-	-	-	-	-	-	-	1
		Total	-	-	4	4	3	-	-	-	-	-	-	-	11
	*Dangerous Incident	*Mobile Plant - general transport/traffic	-	1	3	10	7	10	7	3	7	1	-	-	49
		*Electric shock Cl 68(5)(a)	-	1	-	8	7	2	3	6	3	-	-	-	30
		*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	1	2	-	2	-	1	1	-	-	8
*Isolation of energy		-	1	-	2	2	1	1	-	1	-	-	-	8	
*Guarding - conveyors		-	-	2	-	-	-	-	-	-	3	-	-	5	
*Mobile Plant - fires on equipment (surface)		-	-	2	-	1	1	-	-	-	-	-	-	4	
*Slope stability		-	1	-	-	-	1	-	1	1	1	-	-	4	
*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	-	4	8	28	22	23	20	18	18	2	-	-	143	
*Non Spec Acc Ending in Fat/Injury	*Lost Time Injury	20	7	3	-	1	-	1	1	1	1	-	-	34	
	*SBI/SI	9	2	2	1	3	1	2	9	2	-	-	-	31	
	*MTI with NO Lost Time	9	1	-	-	-	-	-	-	-	-	-	-	10	
	*Fatality	2	2	-	1	-	-	-	-	1	-	-	-	6	
	*Minor injury	-	2	1	-	-	-	-	-	-	1	-	-	4	
	Total	40	14	6	2	4	1	3	11	4	-	-	-	85	
*MIA Total		82	28	27	38	29	24	23	29	22	2	-	-	304	

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 1999-00 to 2009-10 continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Explosives	Explosives Regulation 2005	Serious Incidents involving explosives CI 75	-	-	-	-	-	-	1	1	-	-	-	2
		Total	-	-	-	-	-	-	1	1	-	-	-	2
	Explosives Total		-	-	-	-	-	-	1	1	-	-	-	2
MHS	MHSR 2007 CI 145	145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	8	7	15
		145(j) loss of control of vehicle or other machinery	-	-	-	-	-	-	-	-	-	6	7	13
		145(e) uncontrolled explosion or fire	-	-	-	-	-	-	-	-	-	5	4	9
		145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	-	-	-	1	7	8
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	-	-	-	5	2	7
		145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	-	-	-	4	3	7
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	-	-	-	2	2	4
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	-	-	-	3	1	4
		145(c)(i) damage to any plant, equipment, building or structure	-	-	-	-	-	-	-	-	-	2	1	3
		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)(ii) where a vehicle, machinery or other plant makes contact with an energised high voltage source involving a risk to any person)	-	-	-	-	-	-	-	-	-	-	1	1
		145(g) an uncontrolled issue of gas or fluids	-	-	-	-	-	-	-	-	-	-	1	1
		145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	-	-	-	1	1
		145(p) the burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	-	1	1
			Total		-	-	-	-	-	-	-	-	37	39
MHSR 2007 CI 146(1)	MHSR 2007 CI 146(1)	146(1)(f) a problem or fault in an explosive product or accessory	-	-	-	-	-	-	-	-	-	-	2	2
		146(1)(e) significant misfire of explosives	-	-	-	-	-	-	-	-	-	1	-	1
		Total	-	-	-	-	-	-	-	-	-	1	2	3
Non Spec Acc Ending in Fat/Injury	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	7	10	17
		Total	-	-	-	-	-	-	-	-	-	7	10	17
	MHS Total		-	-	-	-	-	-	-	-	-	45	51	96
N/A	Complaint	Public Complaint	2	7	16	12	7	11	11	10	7	7	11	101
		Mine Employee Complaint	-	2	3	2	2	2	-	4	1	3	6	25
		Other	1	1	2	2	2	3	1	-	1	1	1	15
		Total	3	10	21	16	11	16	12	14	9	11	18	141

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 1999-00 to 2009-10 continued

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total		
N/A	High Potential Incident	Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	3	8	10	14	11	16	12	10	16	8	3	111		
		Other	5	9	8	11	9	13	7	9	3	-	1	75		
		Slopes/grades/ramps where equipment can move in a uncontrolled manner	2	-	3	4	6	2	1	-	-	-	-	-	18	
		Electrical energy from apparatus such as cables, transformers, switch gear, connections	-	4	-	2	-	2	1	2	2	4	2	1	18	
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	1	2	3	3	1	1	2	-	1	-	-	-	14	
		Mining equipment such as continuous miners, excavators, drills, shovels	-	1	-	2	1	1	1	1	3	2	-	-	11	
		Fixed mechanical equipment such as conveyors, crushers, screens	1	2	-	-	1	1	-	-	-	2	3	-	10	
		High wall/Pit wall	-	1	1	-	-	1	1	-	-	1	-	-	5	
		Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	-	2	-	2	-	-	-	-	-	-	-	-	4	
		Explosive Incident not a Dangerous Incident	-	-	-	-	-	-	-	-	-	1	2	-	3	
		Floor	-	-	-	1	-	-	-	1	-	-	-	-	2	
		Stored pressure/energy such as accumulators, spring/tension devices	-	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	2	
		Water - in large volumes	-	-	-	-	-	-	-	-	-	-	-	2	2	
		Explosive gases such as H, CH4	-	1	-	-	-	-	-	-	-	-	-	-	1	
		Fines or build up of combustible particles	-	1	-	-	-	-	-	-	-	-	-	-	1	
		Flammable gases such as Acetylene, LPG	-	-	1	-	-	-	-	-	-	-	-	-	1	
		Lightning strike	-	1	-	-	-	-	-	-	-	-	-	-	1	
		Low wall	-	-	-	1	-	-	-	-	-	-	-	-	1	
		Noise greater than 85dBA	-	-	-	-	1	-	-	-	-	-	-	-	1	
		Total			12	33	26	40	30	38	26	26	31	15	8	285
		UNKNOWN	UNKNOWN		5	-	-	3	-	-	-	-	-	-	-	8
		Total			5	-	-	3	-	-	-	-	-	-	-	8
		N/A Total			20	43	47	59	41	54	38	40	40	26	26	434
		Non-Coal Extractives Surface IncidentsTotal			102	71	74	97	70	78	62	70	62	73	77	836

Figure 155

Non-Coal Extractives Underground Incidents by Incident Type and Subtype 1999-00 to 2009-10

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
*MIA	*Dangerous Incident	*Ejection of Flyrock CI 64(2)	-	-	-	-	-	1	-	-	-	-	-	1	
		*Electric shock CI 68(5)(a)	-	-	-	-	-	-	1	-	-	-	-	1	
		*Rock falls - (major) Ground Movement	-	-	-	-	1	-	-	-	-	-	-	-	1
		*Airblast	-	-	-	-	-	-	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	1	
		145(p) the burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	-	-	1	1
		Total	-	-	-	-	-	-	-	-	-	-	-	2	2
	MHSR 2007 CI 146(1)	146(1)(e) significant misfire of explosives	-	-	-	-	-	-	-	-	-	-	1	-	1
		Total	-	-	-	-	-	-	-	-	-	-	1	-	1
MHS Total			-	-	-	-	-	-	-	-	-	1	2	3	
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/backsc	-	-	-	-	-	-	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	18	

Figure 156

Non-Coal Other Incidents by Incident Type and Subtype 1999-00 to 2009-10

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
*MIA	*1994 Emergency MIA	*Explosion/ignition dust MIA	2	-	-	-	-	-	-	-	-	-	-	2	
		Total	2	-	-	-	-	-	-	-	-	-	-	2	
	*Minor Accident MIA	*MTI with NO Lost Time	-	-	-	1	-	-	-	-	-	-	-	1	
		Total	-	-	-	1	-	-	-	-	-	-	-	1	
	*Pre Sept 2000 Dangerous Incident MIA	*Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	1	-	-	-	-	-	-	-	-	-	-	1	
		Total	1	-	-	-	-	-	-	-	-	-	-	1	
	*Dangerous Incident	*Dangerous Incident	*Mobile Plant - general transport/traffic	-	-	-	1	-	-	-	1	-	-	-	2
			*Isolation of energy	-	-	-	-	-	-	1	-	-	-	-	1
			*Rock falls - (major) Ground Movement	-	-	-	-	-	1	-	-	-	-	-	1
			*Structural Failure	-	-	-	-	1	-	-	-	-	-	-	1
			*Winding systems	-	-	1	-	-	-	-	-	-	-	-	1
			*Working at height	-	-	-	-	-	-	-	-	1	-	-	1
			Total	-	-	1	1	1	1	1	1	1	1	-	-
	*Non Spec Acc Ending in Fat/Injury	*SBI/SI	2	-	-	-	2	-	-	-	-	-	-	4	
	*Lost Time Injury	1	1	-	-	-	-	-	-	-	-	-	2		
	Total	3	1	-	-	2	-	-	-	-	-	-	6		
*MIA Total			6	1	1	2	3	1	1	1	1	-	-	17	
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	1	2	
		Total	-	-	-	-	-	-	-	-	-	1	1	2	
		Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	1	1	2	
	Total	-	-	-	-	-	-	-	-	-	1	1	2		
MHS Total			-	-	-	-	-	-	-	-	2	2	4		
N/A	Complaint	Mine Employee Complaint	-	-	-	-	1	-	-	-	-	-	-	1	
		Other	-	1	-	-	-	-	-	-	-	-	-	1	
		Public Complaint	1	-	-	-	-	-	-	-	-	-	-	1	
		Total	1	1	-	-	1	-	-	-	-	-	-	3	
	High Potential Incident	Other	-	-	-	-	-	-	-	2	-	1	-	1	4
		Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	-	-	-	1	-	-	-	-	-	-	-	-	1
		Total	-	-	-	1	-	-	2	-	1	-	-	5	
UNKNOWN	UNKNOWN	2	-	-	-	-	-	-	-	-	-	-	-	2	
	Total	2	-	-	-	-	-	-	-	-	-	-	-	2	
N/A Total			3	1	-	1	1	-	2	-	1	-	1	10	
Non-Coal Other Incidents Total			9	2	1	3	4	1	3	1	2	2	3	31	

Figure 157

Petroleum (Onshore) Incidents by Incident Type and Subtype 1999-00 to 2009-10

Legislation Category	Incident Type	Incident Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total	
POASch	POASch 1992	POASch1992 Ci 301(2) death or serious injury	1	1	2	-	1	-	-	3	-	1	3	12	
		POASch1992 Ci 304 potentially hazardous event	-	-	-	-	-	-	-	-	-	-	1	6	7
		POASch1992 Ci 306(1)(c) uncontrolled escape or ignition of petroleum, flammable or combustible material or toxic chemicals causing potentially hazardous situation	-	-	-	-	-	-	-	-	-	-	1	1	2
		Total	1	1	2	-	1	-	-	-	3	-	3	10	21
Petroleum Incidents Total			1	1	2	-	1	-	-	3	-	3	10	21	

Appendix A.2 Workforce Numbers and Hours Worked

Figure 158

NSW Coal Employees and Hours Worked by Operation Type 1999-00 to 2009-10

Financial Year	Coal Surface			Coal Underground			Coal Total		
	Employees	Hours Worked	Hours Worked per Employee	Employees	Hours Worked	Hours Worked per Employee	Employees	Hours Worked	Hours Worked per Employee
1999-00	4,117	7,635,700	1,855	5,843	12,016,100	2,056	9,960	19,651,800	1,973
2000-01	3,925	7,684,600	1,958	5,681	10,973,300	1,932	9,606	18,657,900	1,942
2001-02	4,392	8,772,400	1,997	5,755	10,903,400	1,895	10,147	19,675,800	1,939
2002-03	4,749	9,485,000	1,997	5,416	9,735,400	1,798	10,165	19,220,400	1,891
2003-04	4,914	9,918,400	2,018	5,122	9,708,100	1,895	10,036	19,626,500	1,956
2004-05	5,221	10,604,500	2,031	5,540	10,684,000	1,929	10,761	21,288,500	1,978
2005-06	5,988	12,455,955	2,080	6,185	12,718,055	2,056	12,173	25,174,010	2,068
2006-07	6,430	13,502,348	2,100	6,736	13,441,113	1,995	13,166	26,943,461	2,046
2007-08	10,232	17,243,535	1,685	6,427	14,554,751	2,265	16,659	31,798,286	1,909
2008-09	11,582	19,079,109	1,647	9,206	17,673,119	1,920	20,788	36,752,228	1,768
2009-10	12,368	21,752,840	1,759	9,346	19,085,263	2,042	21,714	40,838,103	1,881
Average	6,720	12,557,672	1,921	6,478	12,862,964	1,980	13,198	25,420,635	1,941

Figure 159

NSW Metalliferous Employees and Hours Worked by Operation Type 1999-00 to 2009-10

Financial Year	Metalliferous Surface			Metalliferous Underground			Metalliferous Total		
	Employees	Hours Worked	Hours Worked per Employee	Employees	Hours Worked	Hours Worked per Employee	Employees	Hours Worked	Hours Worked per Employee
1999-00	576	1,244,763	2,161	1,728	3,734,289	2,161	2,304	4,979,052	2,161
2000-01	786	1,834,521	2,334	1,840	4,294,554	2,334	2,626	6,129,075	2,334
2001-02	766	1,680,604	2,194	1,790	3,927,260	2,194	2,556	5,607,864	2,194
2002-03	1,064	2,329,522	2,189	1,908	4,177,375	2,189	2,972	6,506,897	2,189
2003-04	629	2,329,522	3,704	2,992	6,989,312	2,336	3,621	9,318,834	2,574
2004-05	1,257	2,868,840	2,282	1,896	4,374,582	2,307	3,153	7,243,422	2,297
2005-06	1,516	3,093,397	2,040	1,752	3,941,818	2,250	3,268	7,035,215	2,153
2006-07	1,568	3,253,094	2,075	2,248	4,921,330	2,189	3,816	8,174,424	2,142
2007-08	1,725	3,578,403	2,075	2,473	5,413,463	2,189	4,198	8,991,866	2,142
2008-09	2,083	3,844,617	1,846	4,009	6,581,875	1,642	6,092	10,426,492	1,712
2009-10	2,155	3,956,168	1,836	3,790	6,045,942	1,595	5,945	10,002,110	1,682
Average	1,284	2,728,496	2,249	2,402	4,945,618	2,126	3,686	7,674,114	2,144

Figure 160

NSW Extractives Total Employees and Hours Worked 1999-00 to 2009-10

Financial Year	Extractives Total		
	Employees	Hours Worked	Hours Worked per Employee
1999-00	3,516	7,598,616	2,161
2000-01	1,948	3,829,184	1,966
2001-02	1,561	2,786,853	1,785
2002-03	1,231	2,298,646	1,867
2003-04	1,129	2,020,910	1,790
2004-05	1,406	2,444,727	1,739
2005-06	1,942	3,252,521	1,675
2006-07	2,306	4,010,397	1,739
2007-08	2,537	4,411,437	1,739
2008-09	4,043	4,338,791	1,073
2009-10	3,844	3,658,585	952
Average	2,315	3,695,515	1,681

Appendix A.3 Fatalities

Figure 161

NSW Coal, Metalliferous & Extractives Fatalities by Sector 1999-99 to 2009-10

Sector	Operation Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Coal	Surface	-	-	-	-	1	-	-	-	-	-	-	1
	Underground	3	2	1	-	2	-	-	1	-	3	-	12
	Total	3	2	1	-	3	-	-	1	-	3	-	13
Metalliferous	Underground	6	-	-	1	-	-	-	1	-	-	-	8
	Total	6	-	-	1	-	-	-	1	-	-	-	8
Extractives	Surface	2	1	-	-	-	1	-	-	-	-	-	4
	Total	2	1	-	-	-	1	-	-	-	-	-	4
Petroleum	Surface	-	-	-	-	-	-	-	-	-	-	1	1
	Total	-	-	-	-	-	-	-	-	-	-	1	1
Total		11	3	1	1	3	1	-	2	-	3	1	26

Figure 162

NSW Coal, Metalliferous & Extractives Fatalities by Operation Type 1999-99 to 2009-10

Operation Type	Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Surface	Coal	-	-	-	-	1	-	-	-	-	-	-	1
	Extractives	2	1	-	-	-	1	-	-	-	-	-	4
	Petroleum	-	-	-	-	-	-	-	-	-	-	1	1
	Total	2	1	-	-	1	1	-	-	-	-	-	6
Underground	Coal	3	2	1	-	2	-	-	1	-	3	-	12
	Metalliferous	6	-	-	1	-	-	-	1	-	-	-	8
	Total	9	2	1	1	2	-	-	2	-	3	-	20
Total	11	3	1	1	3	1	-	2	-	3	1	26	

Appendix A.4 Lost Time Injuries (LTIs)

Figure 163

NSW Coal, Metalliferous & Extractives Lost Time Injuries by Sector 1999-00 to 2009-10

Sector	Operation Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Coal	Surface	163	158	126	105	103	84	79	120	47	62	67	1,114
	Underground	455	391	412	346	319	292	304	319	216	239	215	3,508
	Total	618	549	538	451	422	376	383	439	263	301	282	4,622
Metalliferous	Surface	12	8	2	3	3	3	7	15	5	7	8	73
	Underground	59	100	52	60	58	28	25	34	35	27	39	517
	Total	71	108	54	63	61	31	32	49	40	34	47	590
Extractives	Surface	25	24	57	61	61	22	27	28	25	68	44	442
	Total	25	24	57	61	61	22	27	28	25	68	44	442
Total		714	681	649	575	544	429	442	516	328	403	373	5,654

Figure 164

NSW Coal, Metalliferous & Extractives Lost Time Injuries by Operation Type 1999-00 to 2009-10

Operation Type	Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Surface	Coal	163	158	126	105	103	84	79	120	47	62	67	1,114
	Metalliferous	12	8	2	3	3	3	7	15	5	7	8	73
	Extractives	25	24	57	61	61	22	27	28	25	68	44	442
	Total	200	190	185	169	167	109	113	163	77	137	119	1,629
Underground	Coal	455	391	412	346	319	292	304	319	216	239	215	3,508
	Metalliferous	59	100	52	60	58	28	25	34	35	27	39	517
	Total	514	491	464	406	377	320	329	353	251	266	254	4,025
Total		714	681	649	575	544	429	442	516	328	403	373	5,654

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

Figure 165

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Sector 2007-08 to 2009-10

Sector	Operation Type	2007-08					2008-09					2009-10					Total TRI
		FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	
Coal	Surface	-	47	81	95	223	-	62	81	62	205	-	67	77	69	213	641
	Underground	-	216	591	411	1,218	3	239	538	213	993	-	215	583	122	920	3,131
	Total	-	263	672	506	1,441	3	301	619	275	1,198	-	282	660	191	1,133	3,772
Metalliferous	Surface	-	-	-	-	-	-	7	15	13	35	-	8	17	7	32	67
	Underground	-	-	-	-	-	-	27	91	111	229	-	39	88	55	182	411
	Total	-	-	-	-	-	-	34	106	124	264	-	47	105	62	214	478
Extractives	Surface	-	-	-	-	-	-	68	61	68	197	-	44	55	68	167	364
	Total	-	-	-	-	-	-	68	61	68	197	-	44	55	68	167	364
Total		-	263	672	506	1,441	3	403	786	467	1,659	-	373	820	321	1,514	4,614

Figure 166

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Operation Type 2007-08 to 2009-10

Sector	Operation Type	2007-08					2008-09					2009-10					Total TRI
		FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	
Surface	Coal	-	47	81	95	223	-	62	81	62	205	-	67	77	69	213	641
	Metalliferous	-	-	-	-	-	-	7	15	13	35	-	8	17	7	32	67
	Extractives	-	-	-	-	-	-	68	61	68	197	-	44	55	68	167	364
	Total	-	47	81	95	223	-	137	157	143	437	-	119	149	144	412	1,072
Underground	Coal	-	216	591	411	1,218	3	239	538	213	993	-	215	583	122	920	3,131
	Metalliferous	-	-	-	-	-	-	27	91	111	229	-	39	88	55	182	411
	Total	-	216	591	411	1,218	3	266	629	324	1,222	-	254	671	177	1,102	3,542
Total		-	263	672	506	1,441	3	403	786	467	1,659	-	373	820	321	1,514	4,614

Figure 167

NSW Coal, Metalliferous & Extractives Total Recordable Injury Frequency Rates (TRIFRs) by Sector 2007-08 to 2009-10

Sector	Operation Type	2007-08	2008-09	2009-10
Coal	Surface	12.93	10.74	9.79
	Underground	83.68	56.19	48.20
	Total	45.32	32.60	27.74
Metalliferous	Surface	-	9.10	8.09
	Underground	-	34.79	30.10
	Total	-	25.32	21.40
Extractives	Surface	-	45.40	45.65
	Total	-	45.40	45.65
Total		45.32	32.20	27.78

Appendix A.6 Serious Bodily Injuries (SBIs)

Figure 168
Serious Bodily Injuries by Sector 1999-2000 to 2009-10

Sector	Operation Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Coal	Surface	11	6	9	11	5	9	11	5	7	6	8	88
	Underground	26	34	27	26	43	25	24	27	18	22	24	296
	Total	37	40	36	37	48	34	35	32	25	28	32	384
Metalliferous	Surface	-	3	-	3	5	2	7	6	1	2	2	31
	Underground	8	8	8	1	7	4	7	11	4	8	3	69
	Total	8	11	8	4	12	6	14	17	5	10	5	100
Extractives	Surface	10	3	7	7	7	2	4	10	2	5	3	60
	Total	10	3	7	7	7	2	4	10	2	5	3	60
Non-Coal Other	Surface	2	-	-	1	1	1	1	1	1	-	-	8
	Underground	-	-	-	-	1	-	-	-	-	-	-	1
	Total	2	-	-	1	2	1	1	1	1	-	-	9
Petroleum	Surface	1	1	2	-	1	-	-	3	-	1	4	13
	Total	1	1	2	-	1	-	-	3	-	1	4	13
Total		58	55	53	49	70	43	54	63	33	44	44	566

Figure 169
Serious Bodily Injuries by Operation Type 1999-2000 to 2009-10

Operation Type	Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Surface	Coal	11	6	9	11	5	9	11	5	7	6	8	88
	Metalliferous	-	3	-	3	5	2	7	6	1	2	2	31
	Extractives	10	3	7	7	7	2	4	10	2	5	3	60
	Non-Coal Other	2	-	-	1	1	1	1	1	1	-	-	8
	Petroleum	1	1	2	-	1	-	-	3	-	1	4	13
	Total	24	13	18	22	19	14	23	25	11	14	17	200
Underground	Coal	26	34	27	26	43	25	24	27	18	22	24	296
	Metalliferous	8	8	8	1	7	4	7	11	4	8	3	69
	Non-Coal Other	-	-	-	-	1	-	-	-	-	-	-	1
	Total	34	42	35	27	51	29	31	38	22	30	27	366
Total		58	55	53	49	70	43	54	63	33	44	44	566

Figure 170
Serious Bodily Injuries by Mechanism 1999-2000 to 2009-10

Mechanism	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Falls from the same level (including trips and slips)	7	5	11	11	17	6	9	15	12	7	10	110
Fall from a height	7	11	8	11	14	4	9	13	6	5	10	98
Being hit by moving objects	7	8	6	5	7	6	6	12	-	8	5	70
Being hit by falling objects	7	7	6	5	4	2	6	7	1	3	5	53
Unspecified mechanism of injury	8	3	1	-	4	-	1	1	4	1	2	25
Being trapped by stationary and moving object	-	-	1	2	2	2	1	6	2	5	2	23
Vehicle accident	1	1	2	3	3	3	1	-	2	4	3	23
Hitting objects with a part of the body	-	-	1	1	1	6	3	2	3	3	1	21
Single contact with chemical or substance (excludes insect and spider bites and stings)	4	2	1	2	3	3	2	-	-	2	2	21
Contact with exposure to heat and cold	-	3	1	2	-	4	7	3	-	-	-	20
Hitting moving objects	2	1	2	2	1	-	2	1	2	5	-	18
Slide or cave-in	3	1	3	-	3	1	2	-	-	-	-	13
Contact with electricity	2	1	-	-	4	3	2	-	-	-	-	12
Unknown	2	5	1	1	1	-	-	-	-	-	-	10
Other contact with chemical or substance (includes insect and spider bites and stings)	2	1	2	1	-	1	2	-	-	-	-	9
Exposure to mechanical vibration	2	2	3	-	1	-	-	-	-	-	-	8
Other and multiple mechanisms of injury	1	1	-	1	1	1	-	2	1	-	-	8
Hitting stationary objects	1	3	1	-	2	-	-	-	-	-	-	7
Exposure to variations in pressure (other than sound)	-	-	1	1	-	-	-	-	-	-	2	4
Other muscular stress	-	-	-	1	1	-	1	-	-	-	-	3
Contact with hot objects	-	-	-	-	-	-	-	-	-	1	2	3
Contact with, or exposure to, biological factors	1	-	-	-	-	1	-	-	-	-	-	2
Exposure to radiation	1	-	1	-	-	-	-	-	-	-	-	2
Exposure to sharp sudden sound	-	-	-	-	1	-	-	-	-	-	-	1
Long term contact with chemical or substance	-	-	1	-	-	-	-	-	-	-	-	1
Muscular stress while lifting, carrying or putting down objects	-	-	-	-	-	-	-	1	-	-	-	1
Total	58	55	53	49	70	43	54	63	33	44	44	566

Figure 171
Serious Bodily Injuries by Agency 1999-2000 to 2009-10

Agency	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Mobile plant	9	7	8	16	11	18	18	14	7	13	10	131
Underground environment	10	11	14	5	22	7	11	16	11	3	8	118
Machinery and fixed plant - general	8	12	9	8	10	2	6	7	4	4	1	71
Outdoor environment	3	1	7	1	4	3	5	5	2	2	2	35
Powered equipment, tools and appliances	2	4	-	3	7	5	3	2	1	2	5	34
Other materials, substances or objects	2	-	2	1	2	1	4	4	2	5	9	32
Other	10	3	3	2	4	-	-	-	-	-	-	22
Human agencies	4	-	2	4	2	1	1	1	2	2	2	21
Non-powered equipment	1	1	1	1	2	-	2	2	1	5	1	17
Road transport	1	2	1	2	1	1	-	4	-	2	3	17
Crushing, Pressing, Rolling Machinery	1	2	2	2	-	-	-	4	1	1	1	14
Chemicals	2	2	2	1	1	2	2	-	-	-	-	12
Indoor environment	-	-	1	1	2	1	-	4	1	-	1	11
Unspecified agencies	3	1	-	-	1	2	1	-	-	2	1	11
Unknown	2	5	1	1	1	-	-	-	-	-	-	10
Non-powered hand tools	-	2	-	-	-	-	1	-	-	2	-	5
Other transport	-	2	-	1	-	-	-	-	1	1	-	5
Total	58	55	53	49	70	43	54	63	33	44	44	566

Figure 172
Serious Bodily Injuries by Nature of Injury 1999-2000 to 2009-10

Nature of Injury	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Fractures (excluding of vertebral column)	31	31	35	33	46	24	28	46	24	33	34	365
Burns	12	8	8	4	7	11	13	3	-	2	2	70
Dislocations	1	1	4	4	4	2	7	3	3	1	-	30
Fracture of vertebral column with or without mention of spinal cord lesion	3	3	-	2	5	2	2	3	2	1	1	24
Amputation	2	1	1	2	2	1	1	3	2	5	1	21
Injection of fluid	1	2	1	2	3	1	1	1	2	1	2	17
Multiple injuries (only to be used where no principal injury can be identified)	4	2	1	1	-	-	1	2	-	-	-	11
Unknown	2	4	1	1	1	-	-	-	-	-	-	9
Asphyxia	1	2	1	-	1	-	1	-	-	-	-	6
Haemorrhage - Internal	-	-	-	-	-	1	-	-	-	1	1	3
Sight - Loss/Impairment	-	1	1	-	-	1	-	-	-	-	-	3
Contusion with intact skin surface and crushing injury, excluding those with fracture	-	-	-	-	-	-	-	-	-	-	2	2
Superficial injury	1	-	-	-	-	-	-	-	-	-	1	2
Internal injury of chest, abdomen and pelvis	-	-	-	-	1	-	-	-	-	-	-	1
Intracranial injury, including concussion	-	-	-	-	-	-	-	1	-	-	-	1
Sprain and strains of joints and adjacent muscles (include acute trauma sprains and strains only)	-	-	-	-	-	-	-	1	-	-	-	1
Total	58	55	53	49	70	43	54	63	33	44	44	566

Figure 173

Serious Bodily Injuries by Bodily Location 1999-2000 to 2009-10

Bodily Location	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Arm/Forearm	10	9	11	12	11	11	11	8	4	2	1	90
Leg	-	8	5	6	10	5	11	11	7	9	8	80
Ribs	1	5	9	8	10	4	4	6	4	5	5	61
Hands and fingers	5	3	5	2	7	4	5	4	1	4	4	44
Ankle	-	3	5	6	7	3	1	6	2	1	5	39
Multiple locations (more than one part of body)	11	4	3	1	1	1	3	3	-	2	3	32
Face	2	3	1	-	1	2	2	1	1	3	5	21
Wrist	-	1	-	-	-	-	-	7	3	5	5	21
Back - unspecified	2	3	1	1	4	1	2	3	2	-	-	19
Shoulder-blade	-	-	3	2	4	1	4	1	-	1	1	17
Hip	7	4	-	1	1	1	-	-	-	-	-	14
Shoulder	1	1	1	1	1	-	-	2	4	2	1	14
Skull	-	-	1	1	-	2	1	5	1	-	-	11
Trunk (other than back and excl internal organ)	7	1	-	-	1	1	-	-	-	1	-	11
Knee/Knee-cap	-	2	1	2	2	1	1	1	-	-	-	10
Elbow	-	-	-	-	2	1	4	-	-	-	2	9
Head (other than eye, ear and face)	4	-	-	1	1	-	-	1	-	2	-	9
UNKNOWN	2	4	1	1	1	-	-	-	-	-	-	9
Eye	2	1	1	-	-	1	1	-	-	1	-	7
Pelvis	-	-	1	-	-	-	-	2	1	2	1	7
Respiratory system	1	3	1	-	1	-	1	-	-	-	-	7
Back - lower	-	-	-	1	1	1	-	-	1	-	2	6
Feet and toes	-	-	1	1	1	-	-	-	1	2	-	6
Neck	2	-	-	1	-	2	-	-	-	1	-	6
Thigh	-	-	1	-	1	1	2	-	1	-	-	6
Jaw	1	-	-	-	2	-	1	-	-	-	1	5
Collar-bone	-	-	1	-	-	-	-	1	-	-	-	2
Internal organs (located in the trunk)	-	-	-	-	-	-	-	1	-	1	-	2
Back - upper	-	-	-	1	-	-	-	-	-	-	-	1
Total	58	55	53	49	70	43	54	63	33	44	44	566

Figure 174

Serious Bodily Injuries by Age Group 1999-2000 to 2009-10

Age Group	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
<20	2	3	2	3	-	1	1	1	-	1	-	14
20-29	8	9	8	2	10	7	9	10	7	7	7	84
30-39	14	10	17	13	13	7	6	16	5	10	11	122
40-49	13	19	16	13	22	9	13	11	7	12	12	147
50-59	10	9	6	11	17	8	6	13	7	10	9	106
60-69	3	1	2	1	2	1	-	2	3	2	2	19
>=70	3	-	-	-	2	1	1	-	-	-	-	7
Unknown	5	4	2	6	4	9	18	10	4	2	3	67
Total	58	55	53	49	70	43	54	63	33	44	44	566

Figure 175

Serious Bodily Injuries by Employment Type 1999-2000 to 2009-10

Employment Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Employee	46	40	44	33	57	25	37	36	23	26	27	394
Contractor	9	9	7	15	12	17	17	27	10	18	17	158
Other	3	6	2	1	1	1	-	-	-	-	-	14
Total	58	55	53	49	70	43	54	63	33	44	44	566

Appendix A.7 Notifiable Injury Outcomes

Figure 176
Notifiable Injury Outcomes by Sector mid 2006-07 to 2009-10

Sector	Outcome	2006-07	2007-08	2008-09	2009-10	Total
Coal	>=7 days lost time/alternative duties	192	425	402	382	1,401
	Hospital inpatient admission	35	75	86	95	291
	Lost consciousness	3	5	3	6	17
	Entrapment	-	-	3	1	4
	Fatality	-	-	3	-	3
	Total	230	505	497	484	1,716
Non-Coal	Hospital inpatient admission	-	-	15	23	38
	>=7 days lost time/alternative duties	-	-	9	22	31
	Lost consciousness	-	-	1	-	1
	Total	-	-	25	45	70
Total	230	505	522	529	1,786	

Figure 177
Notifiable Injury Outcomes by Surface/Underground Operation mid 2006-07 to 2009-10

Operation Type	Outcome	2006-07	2007-08	2008-09	2009-10	Total
Surface	>=7 days lost time/alternative duties	28	30	60	56	174
	Hospital inpatient admission	5	12	26	26	69
	Lost consciousness	-	1	2	-	3
	Entrapment	-	-	1	-	1
	Total	33	43	89	82	247
Underground	>=7 days lost time/alternative duties	164	395	351	348	1,258
	Hospital inpatient admission	30	63	75	92	260
	Lost consciousness	3	4	2	6	15
	Fatality	-	-	3	-	3
	Entrapment	-	-	2	1	3
	Total	197	462	433	447	1,539
Total	230	505	522	529	1,786	

Figure 178
Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2009-10

Mechanism	2006-07				2007-08				2008-09						2009-10					Total
	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment	Fatality	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment	Total	
Other muscular stress	67	7	-	74	106	7	-	113	57	3	-	-	-	60	54	5	-	-	59	306
Falls from the same level (including trips and slips)	28	1	-	29	46	6	-	52	77	13	-	-	-	90	71	10	1	-	82	253
Muscular stress while lifting, carrying or putting down objects	8	-	-	8	39	7	-	46	51	4	-	-	-	55	68	12	-	-	80	189
Being hit by falling objects	11	2	2	15	34	12	1	47	37	17	1	-	2	57	36	16	-	-	52	171
Being hit by moving objects	8	6	1	15	29	8	2	39	25	23	1	-	1	50	29	15	1	-	45	149
Unspecified mechanism of injury	25	3	-	28	51	5	1	57	35	2	-	-	-	37	21	5	-	-	26	148
Hitting objects with a part of the body	11	-	-	11	25	5	-	30	30	7	-	-	-	37	24	9	1	-	34	112
Muscular stress with no objects being handled	9	2	-	11	27	4	-	31	23	1	-	-	-	24	23	2	-	-	25	91
Being trapped by stationary and moving object	1	3	-	4	8	5	-	13	9	5	1	-	-	15	22	14	-	-	36	68
Muscular stress while handling objects other than lifting, carrying or putting down	2	-	-	2	15	2	-	17	15	-	-	-	-	15	14	3	-	-	17	51
Fall from a height	7	1	-	8	5	1	-	6	6	3	-	-	-	9	14	10	1	-	25	48
Hitting stationary objects	6	-	-	6	9	2	-	11	12	4	-	-	-	16	10	2	1	-	13	46
Hitting moving objects	-	-	-	-	10	2	-	12	12	3	-	-	-	15	3	3	1	-	7	34
Vehicle accident	3	2	-	5	6	2	-	8	6	4	-	-	-	10	2	1	-	-	3	26
Single contact with chemical or substance (excludes insect and spider bites and stings)	1	-	-	1	1	1	-	2	4	3	-	-	-	7	5	5	-	-	10	20
Rep move't with low muscle loading	1	1	-	2	3	-	-	3	3	2	-	-	-	5	6	2	-	-	8	18
Other and multiple mechanisms of injury	1	1	-	2	1	3	1	5	3	2	-	1	-	6	-	-	-	-	-	13
Contact with electricity	-	1	-	1	1	1	-	2	2	3	1	-	-	6	-	2	-	-	2	11
Slide or cave-in	1	2	-	3	-	-	-	-	2	-	-	2	-	4	-	-	-	1	1	8
Other contact with chemical or substance (includes insect and spider bites and stings)	1	1	-	2	4	-	-	4	-	1	-	-	-	1	-	-	-	-	-	7
Contact with hot objects	-	-	-	-	-	1	-	1	1	-	-	-	-	1	2	2	-	-	4	6
Contact with exposure to heat and cold	1	-	-	1	-	1	-	1	1	1	-	-	-	2	-	-	-	-	-	4
Exposure to mechanical vibration	-	1	-	1	3	-	-	3	-	-	-	-	-	-	-	-	-	-	-	4
Contact with, or exposure to, biological factors	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Exposure to variations in pressure (other than sound)	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Long term contact with chemical or substance	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Total	192	35	3	230	425	75	5	505	411	101	4	3	3	522	404	118	6	1	529	1,786

Figure 179
Notifiable Injury Outcomes by Agency mid 2006-07 to 2009-10

Agency	2006-07				2007-08				2008-09					2009-10					Total	
	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment	Fatality	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment		Total
Underground environment	74	10	1	85	169	26	2	197	157	18	-	2	-	177	123	15	4	-	142	601
Mobile plant	42	11	-	53	94	20	-	114	98	31	1	-	1	131	87	23	1	-	111	409
Other materials, substances or objects	13	1	1	15	50	8	2	60	51	15	1	-	-	67	82	30	-	1	113	255
Unspecified agencies	17	-	-	17	13	1	-	14	19	2	-	-	-	21	19	5	-	-	24	76
Machinery and fixed plant - general	3	2	-	5	15	3	1	19	13	9	1	-	1	24	15	8	-	-	23	71
Non-powered equipment	4	-	-	4	8	3	-	11	14	5	-	-	-	19	23	8	-	-	31	65
Powered equipment, tools and appliances	5	3	-	8	9	3	-	12	11	6	-	-	1	18	11	14	-	-	25	63
Human agencies	10	1	-	11	18	1	-	19	9	2	-	-	-	11	12	3	-	-	15	56
Outdoor environment	10	-	-	10	12	4	-	16	14	2	-	1	-	17	9	4	-	-	13	56
Road transport	5	2	-	7	14	-	-	14	6	1	-	-	-	7	8	2	-	-	10	38
Non-powered hand tools	2	-	1	3	6	1	-	7	5	5	-	-	-	10	6	2	-	-	8	28
Crushing, Pressing, Rolling Machinery	1	3	-	4	4	2	-	6	3	4	1	-	-	8	4	2	-	-	6	24
Indoor environment	3	1	-	4	5	-	-	5	4	1	-	-	-	5	2	-	-	-	2	16
Other transport	1	-	-	1	3	1	-	4	5	-	-	-	-	5	2	-	1	-	3	13
Non-physical agencies	1	-	-	1	2	1	-	3	2	-	-	-	-	2	1	-	-	-	1	7
Chemicals	1	1	-	2	2	1	-	3	-	-	-	-	-	-	-	1	-	-	1	6
Biological agencies	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Live Animals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
Total	192	35	3	230	425	75	5	505	411	101	4	3	3	522	404	118	6	1	529	1,786

Figure 180
Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2009-10

Nature of Injury	2006-07				2007-08				2008-09						2009-10					Total
	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment	Fatality	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment	Total	
Sprain and strains of joints and adjacent muscles (include acute trauma sprains and strains only)	126	8	-	134	281	19	1	301	266	20	-	-	-	286	241	30	1	1	273	994
Fractures (excluding of vertebral column)	4	1	-	5	21	15	-	36	37	25	1	-	2	65	54	31	-	-	85	191
Open wound not involving traumatic amputation	1	2	-	3	19	8	-	27	35	18	-	-	-	53	41	20	-	-	61	144
Superficial injury	22	4	3	29	42	7	-	49	30	7	2	-	-	39	14	10	1	-	25	142
Contusion with intact skin surface and crushing injury, excluding those with fracture	3	3	-	6	26	10	1	37	15	9	-	1	-	25	33	8	-	-	41	109
Other and unspecified injuries	18	3	-	21	15	3	-	18	4	2	-	-	-	6	3	4	-	-	7	52
Disorders of muscle, tendons and other soft tissues (includes synovitis, tenosynovitis, bursitis)	5	4	-	9	5	1	-	6	3	-	-	-	-	3	2	-	-	-	2	20
Amputation	-	4	-	4	1	3	-	4	3	6	-	-	-	9	-	1	-	-	1	18
Burns	2	1	-	3	-	2	-	2	5	2	-	-	-	7	2	3	-	-	5	17
Hernia	2	1	-	3	-	2	-	2	2	2	-	-	-	4	3	2	-	-	5	14
Dislocations	3	-	-	3	4	1	-	5	2	-	-	-	-	2	-	1	-	-	1	11
Intracranial injury, including concussion	-	-	-	-	1	-	2	3	-	1	-	-	1	2	2	-	4	-	6	11
Mental disorders	-	-	-	-	-	-	-	-	6	-	-	2	-	8	1	-	-	-	1	9
Foreign body on external eye, in ear or nose or in respiratory, digestive or reproductive systems (include choking)	2	1	-	3	1	1	-	2	1	-	-	-	-	1	-	2	-	-	2	8
Multiple injuries (only to be used where no principal injury can be identified)	-	1	-	1	1	-	1	2	1	2	-	-	-	3	1	1	-	-	2	8
Injection of fluid	-	1	-	1	-	1	-	1	-	1	-	-	-	1	1	2	-	-	3	6
Electrocution, electric shock (excl serious electrical burn, lightning, static)	-	-	-	-	-	-	-	-	-	3	1	-	-	4	-	1	-	-	1	5
Fracture of vertebral column with or without mention of spinal cord lesion	-	-	-	-	2	2	-	4	-	-	-	-	-	-	1	-	-	-	1	5
Eye disorders (non-traumatic)	2	-	-	2	-	-	-	-	1	1	-	-	-	2	-	-	-	-	-	4
Haemorrhage - Internal	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	2	-	-	3	4
Injuries to nerves and spinal cord without evidence of spinal bone injury	-	1	-	1	-	-	-	-	-	1	-	-	-	1	2	-	-	-	2	4
Dermatitis and other eczema	1	-	-	1	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	3
Other diseases	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2
Poisoning and toxic effects of substances	-	-	-	-	1	-	-	1	-	-	-	-	-	-	1	-	-	-	1	2
Effects of weather (incl lightning, static), exposure, air pressure and other external causes, not elsewhere classified (includes bends, drowning, electrocution, electric shock)	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Other diseases of the musculoskeletal system and connective tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1
Sight - Loss/Impairment	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Total	192	35	3	230	425	75	5	505	411	101	4	3	3	522	404	118	6	1	529	1,786

Figure 181
Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2009-10

Nature of Injury	2006-07				2007-08				2008-09						2009-10					Total
	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment	Fatality	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment	Total	
Sprain and strains of joints and adjacent muscles (include acute trauma sprains and strains only)	126	8	-	134	281	19	1	301	266	20	-	-	-	286	241	30	1	1	273	994
Fractures (excluding of vertebral column)	4	1	-	5	21	15	-	36	37	25	1	-	2	65	54	31	-	-	85	191
Open wound not involving traumatic amputation	1	2	-	3	19	8	-	27	35	18	-	-	-	53	41	20	-	-	61	144
Superficial injury	22	4	3	29	42	7	-	49	30	7	2	-	-	39	14	10	1	-	25	142
Contusion with intact skin surface and crushing injury, excluding those with fracture	3	3	-	6	26	10	1	37	15	9	-	1	-	25	33	8	-	-	41	109
Other and unspecified injuries	18	3	-	21	15	3	-	18	4	2	-	-	-	6	3	4	-	-	7	52
Disorders of muscle, tendons and other soft tissues (includes synovitis, tenosynovitis, bursitis)	5	4	-	9	5	1	-	6	3	-	-	-	-	3	2	-	-	-	2	20
Amputation	-	4	-	4	1	3	-	4	3	6	-	-	-	9	-	1	-	-	1	18
Burns	2	1	-	3	-	2	-	2	5	2	-	-	-	7	2	3	-	-	5	17
Hernia	2	1	-	3	-	2	-	2	2	2	-	-	-	4	3	2	-	-	5	14
Dislocations	3	-	-	3	4	1	-	5	2	-	-	-	-	2	-	1	-	-	1	11
Intracranial injury, including concussion	-	-	-	-	1	-	2	3	-	1	-	-	1	2	2	-	4	-	6	11
Mental disorders	-	-	-	-	-	-	-	-	6	-	-	2	-	8	1	-	-	-	1	9
Foreign body on external eye, in ear or nose or in respiratory, digestive or reproductive systems (include choking)	2	1	-	3	1	1	-	2	1	-	-	-	-	1	-	2	-	-	2	8
Multiple injuries (only to be used where no principal injury can be identified)	-	1	-	1	1	-	1	2	1	2	-	-	-	3	1	1	-	-	2	8
Injection of fluid	-	1	-	1	-	1	-	1	-	1	-	-	-	1	1	2	-	-	3	6
Electrocution, electric shock (excl serious electrical burn, lightning, static)	-	-	-	-	-	-	-	-	-	3	1	-	-	4	-	1	-	-	1	5
Fracture of vertebral column with or without mention of spinal cord lesion	-	-	-	-	2	2	-	4	-	-	-	-	-	-	1	-	-	-	1	5
Eye disorders (non-traumatic)	2	-	-	2	-	-	-	-	1	1	-	-	-	2	-	-	-	-	-	4
Haemorrhage - Internal	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	2	-	-	3	4
Injuries to nerves and spinal cord without evidence of spinal bone injury	-	1	-	1	-	-	-	-	-	1	-	-	-	1	2	-	-	-	2	4
Dermatitis and other eczema	1	-	-	1	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	3
Other diseases	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2
Poisoning and toxic effects of substances	-	-	-	-	1	-	-	1	-	-	-	-	-	-	1	-	-	-	1	2
Effects of weather (incl lightning, static), exposure, air pressure and other external causes, not elsewhere classified (includes bends, drowning, electrocution, electric shock)	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Other diseases of the musculoskeletal system and connective tissue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1
Sight - Loss/Impairment	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Total	192	35	3	230	425	75	5	505	411	101	4	3	3	522	404	118	6	1	529	1,786

Figure 182
Notifiable Injury Outcomes by Age Group mid 2006-07 to 2009-10

Age Group	2006-07				2007-08				2008-09					2009-10					Total	
	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment	Fatality	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment		Total
<20	-	-	1	1	7	-	-	7	6	1	-	-	-	7	3	2	-	-	5	20
20-29	23	3	-	26	51	16	1	68	51	18	2	2	-	73	64	23	1	-	88	255
30-39	35	8	-	43	96	12	1	109	98	33	1	1	1	134	103	27	1	1	132	418
40-49	58	11	1	70	117	18	2	137	105	22	1	-	1	129	109	29	3	-	141	477
50-59	62	7	1	70	124	21	-	145	122	21	-	-	-	143	98	29	1	-	128	486
60-69	3	1	-	4	14	2	-	16	12	5	-	-	-	17	19	4	-	-	23	60
Unknown	11	5	-	16	16	6	1	23	17	1	-	-	1	19	8	4	-	-	12	70
Total	192	35	3	230	425	75	5	505	411	101	4	3	3	522	404	118	6	1	529	1,786

Figure 183
Notifiable Injury Outcomes by Employment Type mid 2006-07 to 2009-10

Employment Type	2006-07				2007-08				2008-09					2009-10					Total	
	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment	Fatality	Total	>=7 days lost time/alternative duties	Hospital inpatient admission	Lost consciousness	Entrapment		Total
Employee	168	28	2	198	367	58	4	429	350	74	4	2	2	432	331	76	5	1	413	1,472
Contractor	24	7	1	32	58	17	1	76	61	27	-	1	1	90	73	42	1	-	116	314
Total	192	35	3	230	425	75	5	505	411	101	4	3	3	522	404	118	6	1	529	1,786

Appendix A.8 Assessments

Figure 184

Coal Surface Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	141	151	134	104	86	111	157	165	191	180	237	1,657
Audit	18	20	10	12	21	11	69	44	33	48	103	389
Management Plans (Safety)	159	12	3	9	12	10	14	28	9	25	27	308
Investigation	-	5	3	1	5	1	7	4	6	6	3	41
Equipment	-	-	-	-	-	7	4	3	2	3	-	19
Airborne Dust	-	-	-	1	6	3	1	-	-	1	-	12
Verification	5	-	-	-	-	-	-	-	-	-	-	5
Resource Recovery (Safety)	-	-	-	-	-	-	-	-	-	-	1	1
Total	323	188	150	127	130	143	252	244	241	263	371	2,432

Figure 185

Coal Underground Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	379	322	270	206	196	299	361	235	272	283	279	3,102
Explosion Suppression	204	223	161	177	143	105	90	91	116	103	159	1,572
Audit	48	98	146	172	88	32	155	99	92	139	104	1,173
Management Plans (Safety)	260	39	9	30	29	44	82	105	34	29	30	691
Investigation	4	10	6	3	13	6	10	46	58	34	5	195
Airborne Dust	1	2	1	5	41	31	-	2	4	2	1	90
Equipment	-	-	-	-	-	17	5	11	3	8	1	45
Verification	4	-	2	1	-	-	1	-	-	-	-	8
Resource Recovery (Safety)	-	-	-	-	-	1	1	-	-	-	-	2
Closure	-	-	-	-	-	1	-	-	-	-	-	1
Seminar/Workshop	-	-	-	-	-	-	-	1	-	-	-	1
Total	900	694	595	594	510	536	705	590	579	598	579	6,880

Figure 186

Non-Coal Metalliferous Surface Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	23	31	49	51	45	73	45	41	43	44	58	503
Investigation	6	2	15	4	8	13	11	13	6	8	12	98
Audit	1	1	3	1	-	3	12	1	5	7	8	42
Verification	4	-	3	5	3	6	2	1	5	2	-	31
Management Plans (Safety)	1	1	1	2	-	3	3	1	1	1	3	17
Resource Recovery (Safety)	-	-	-	-	-	3	-	-	-	-	-	3
Closure	1	-	-	-	-	-	-	-	-	-	-	1
Equipment	-	-	-	-	-	-	-	-	-	-	1	1
Total	36	35	71	63	56	101	73	57	60	62	82	696

Figure 187

Non-Coal Metalliferous Underground Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	62	58	79	74	68	91	89	107	107	99	96	930
Investigation	10	15	18	17	10	10	5	30	22	13	21	171
Audit	4	5	5	9	9	3	12	15	26	8	21	117
Verification	2	2	9	2	3	2	3	12	6	2	2	45
Management Plans (Safety)	3	-	1	2	3	4	1	2	6	2	7	31
Equipment	-	-	-	-	-	2	1	4	-	-	9	16
Total	81	80	112	104	93	112	111	170	167	124	156	1,310

Figure 188

Non-Coal Extractives Surface Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	456	464	543	578	475	554	577	655	702	724	717	6,445
Audit	2	7	14	8	57	49	34	44	62	83	145	505
Verification	129	31	12	10	4	1	8	3	1	4	1	204
Management Plans (Safety)	3	-	9	16	9	22	16	10	2	12	45	144
Investigation	13	10	10	10	13	12	22	13	13	10	6	132
Equipment	3	-	-	-	-	6	4	1	2	3	3	22
Airborne Dust	-	-	-	-	-	-	-	-	4	5	-	9
Seminar/Workshop	-	-	-	-	-	-	5	-	2	1	-	8
Closure	-	-	-	-	-	-	2	3	-	-	2	7
Total	606	512	588	622	558	644	668	729	788	842	919	7,476

Figure 189

Non-Coal Extractives Underground Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	1	1	5	5	7	8	7	9	14	5	8	70
Audit	-	-	-	-	-	-	-	2	2	2	1	7
Investigation	-	-	-	-	1	1	1	1	-	-	1	5
Management Plans (Safety)	-	-	-	-	-	-	1	-	-	-	-	1
Total	1	1	5	5	8	9	9	12	16	7	10	83

Figure 190

Non-Coal Other Surface Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	11	6	5	3	1	1	5	26	5	8	12	83
Audit	1	-	-	-	-	-	-	1	1	-	-	3
Investigation	-	2	-	1	-	-	-	-	-	-	-	3
Verification	1	-	-	-	-	-	-	-	-	1	-	2
Mech Equip Mobile	1	-	-	-	-	-	-	-	-	-	-	1
Total	14	8	5	4	1	1	5	27	6	9	12	92

Figure 191

Non-Coal Other Underground Assessments by Event Subtype 1999-00 to 2009-10

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	Total
Inspection (Mine Safety)	6	3	15	9	19	9	8	1	19	4	7	100
Audit	1	3	3	13	3	-	-	-	1	-	-	24
Equipment	-	-	-	-	-	2	-	-	-	-	2	4
Management Plans (Safety)	-	-	1	-	-	-	-	-	-	-	-	1
Total	7	6	19	22	22	11	8	1	20	4	9	129

Appendix A.9 Enforcement Notices

Figure 192

Coal Surface and Underground Enforcement Notices by Enforcement Notice Category and Type 1999-00 to 2009-10

Sector/Operation Type	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	Total
Coal Surface	Advice/Improvement	CMRA S 61	38	34	28	12	9	32	25	29				207
		CMHSA S 150								46	94	60	131	331
		OHSA S 91							1	5	10	4	22	42
		Total	38	34	28	12	9	32	26	80	104	64	153	580
	Prohibition	CMRA S 63	13	10	18	7	2	18	9	-				77
		CMHSR CI 51								6	10	27	30	73
		OHSA S 93							-	-	2	-	3	5
		Total	13	10	18	7	2	18	9	6	12	27	33	155
	Investigation	OHSA S 62								1	1	-	-	3
		OHSA S 70								-	-	-	-	-
		OHSA S 72								-	-	-	-	-
		OHSA S 89								-	-	1	-	1
		Total	-	-	-	-	-	-	-	-	1	1	1	4
	Total		51	44	46	19	11	50	35	87	117	92	187	739
	Coal Underground	Advice/Improvement	CMRA S 61	272	230	154	125	122	139	92	94			
CMHSA S 150										88	149	194	340	771
OHSA S 91									4	27	15	18	26	90
Total			272	230	154	125	122	139	96	209	164	212	366	2,089
Prohibition		CMRA S 63	24	29	18	31	14	27	17	15				175
		CMHSR CI 51								10	50	52	59	171
		OHSA S 93							-	8	7	4	4	23
		Total	24	29	18	31	14	27	17	33	57	56	63	369
Investigation		OHSA S 62								-	-	2	1	3
		OHSA S 70								-	-	-	-	-
		OHSA S 72								-	-	-	-	-
		OHSA S 89								7	1	6	1	15
		Total	-	-	-	-	-	-	-	-	7	1	8	2
Total			296	259	172	156	136	166	113	249	222	276	431	2,476
Total			347	303	218	175	147	216	148	336	339	368	618	3,215

Figure 193

Non-Coal Metalliferous Surface and Underground Enforcement Notices by Enforcement Notice Category and Type 1999-00 to 2009-10

Sector/Operation Type	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	Total	
Metalliferous Surface	Advice/Improvement	MIA S 36B	-	2	5	8	-	9	5	7	20	2	-	58	
		MHSA S 131	-	-	-	-	-	-	-	-	-	6	22	28	
		OHSA S 91	-	-	-	-	-	-	-	-	1	1	1	-	3
		Total	-	2	5	8	-	9	5	8	21	9	22	89	
	Prohibition	MIA S 37	1	-	1	-	-	-	1	-	-	-	-	-	3
		MIA S 37A	-	-	-	-	-	-	-	-	-	-	-	-	-
		MHSR CI 158	-	-	-	-	-	-	-	-	-	-	-	-	-
		Total	1	-	1	-	-	-	2	4	2	-	-	1	8
	Investigation	OHSA S 62	-	-	-	-	-	-	-	-	-	2	-	-	2
		OHSA S 70	-	-	-	-	-	-	-	-	-	1	-	-	1
		OHSA S 72	-	-	-	-	-	-	-	-	-	1	1	-	2
		Total	-	-	-	-	-	-	-	-	-	4	1	-	5
	Explosives	EXPLR CI 99	-	-	-	-	-	-	-	-	-	-	-	-	-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total		1	2	6	8	-	9	7	12	27	10	23	105	
	Metalliferous Underground	Advice/Improvement	MIA S 36B	-	-	-	5	3	2	8	10	33	7	-	68
			MHSA S 131	-	-	-	-	-	-	-	-	-	22	44	66
OHSA S 91			-	-	-	-	-	-	2	-	3	1	-	6	
Total			-	-	-	5	3	2	10	10	36	30	44	140	
Prohibition		MIA S 37	-	1	1	-	-	-	-	-	-	-	-	-	2
		MIA S 37A	-	2	-	-	1	2	2	-	2	-	-	-	9
		MHSR CI 158	-	-	-	-	-	-	-	-	-	-	4	4	8
		Total	-	3	1	-	1	2	3	1	6	6	5	28	
Investigation		OHSA S 62	-	-	-	-	-	-	-	8	-	-	-	-	8
		OHSA S 70	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSA S 72	-	-	-	-	-	-	-	-	-	-	1	-	1
		Total	-	-	-	-	-	-	-	8	-	3	-	11	
Explosives		EXPLR CI 99	-	-	-	-	-	-	-	-	-	-	-	-	-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	3	1	5	4	4	13	19	42	39	49	179	
Total			1	5	7	13	4	13	20	31	69	49	72	284	

Figure 194

Non-Coal Extractives Surface and Underground Enforcement Notices by Enforcement Notice Category and Type 1999-00 to 2009-10

Sector/Operation Type	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	Total	
Extractives Surface	Advice/Improvement	MIA S 36B	1	47	44	112	120	154	155	177	277	52		1,139	
		MHSA S 131											296	482	778
		OHSA S 91								11	38	77	70	85	281
		Total	1	47	44	112	120	154	166	215	354	418	567	2,198	
	Prohibition	MIA S 37	6	6	6	8	9	11	5	2	2	-	-	-	55
		MIA S 37A	1	2	-	2	3	11	4	1	4	-	-	-	28
		MHSR CI 158											11	25	36
		OHSA S 93							9	43	29	15	24	120	
	Total	7	8	6	10	12	22	18	46	35	26	49	239		
	Investigation	OHSA S 62												4	4
		OHSA S 70													-
		OHSA S 72													-
		OHSA S 89													-
	Total	-	-	-	-	-	-	-	-	-	-	-	4	4	
	Explosives	EXPLR CI 99									1				1
		Total	-	-	-	-	-	-	-	-	1	-	-	-	1
	Total		8	55	50	122	132	176	184	262	389	444	620	2,442	
	Extractives Underground	Advice/Improvement	MIA S 36B	-	-	-	-	1	2	-	2	5	-	-	10
			MHSA S 131										1	2	3
			OHSA S 91							1	-	-	-	-	1
Total			-	-	-	-	1	2	1	2	5	1	2	14	
Prohibition		MIA S 37	-	-	-	-	-	-	-	-	-	-	-	-	
		MIA S 37A	-	-	-	-	1	-	-	-	-	-	-	1	
		MHSR CI 158												-	
		OHSA S 93												-	
Total		-	-	-	-	1	-	-	-	-	-	-	-		
Investigation		OHSA S 62												-	
		OHSA S 70												-	
		OHSA S 72												-	
		OHSA S 89												-	
Total		-	-	-	-	-	-	-	-	-	-	-	-		
Explosives		EXPLR CI 99												-	
		Total	-	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	-	-	2	2	1	2	5	1	2	15	
Total			8	55	50	122	134	178	185	264	394	445	622	2,457	

Figure 195

Non-Coal Other Enforcement Notices by Enforcement Notice Category and Type 1999-00 to 2009-10

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	Total
NonCoal Other	Advice/Improvement	MIA S 36B	-	-	-	1	1	-	1	-	2	-	-	5
		MHSA S 131										4	7	11
		OHSA S 91								2	5	1	-	8
		Total	-	-	-	1	1	-	1	2	7	5	7	24
	Prohibition	MIA S 37	-	-	-	-	-	-	-	-	-	-	-	-
		MIA S 37A	-	-	1	-	-	-	-	-	-	-	-	1
		MHSR CI 158												-
		OHSA S 93							1	21	6	2	1	31
	Total	-	-	1	-	-	-	1	21	6	2	1	32	
	Investigation	OHSA S 89									1			1
		Total	-	-	-	-	-	-	-	-	1	-	-	1
	Explosives	EXPLR CI 99												-
		Total	-	-	-	-	-	-	-	-	-	-	-	-
	Total		-	-	1	1	1	-	2	23	14	7	8	57

Figure 196

Petroleum (Onshore) Enforcement Notices by Enforcement Notice Category and Type 1999-00 to 2009-10

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	Total	
Petroleum	Advice/Improvement	OHSA S 91											2	2	
		Total	-	-	-	-	-	-	-	-	-	-	-	2	2
	Prohibition	OHSA S 93												2	2
		Total	-	-	-	-	-	-	-	-	-	-	-	2	2
	Investigation	OHSA S 62												5	5
		Total	-	-	-	-	-	-	-	-	-	-	-	5	5
Total		-	-	-	-	-	-	-	-	-	-	-	9	9	

APPENDIX B ADDITIONAL INFORMATION

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

Figure 197
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 198
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

Appendix B.2 COMET Incident Event Subtypes

Figure 199
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 200

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	CMGMR 1999	01/09/1999	Repealed	*CMGMR	*Notifiable Incidents DCCP CMGMR 1999, CI 83 *Non Spec Acc Ending in Fat/Injury
	Coal Mines (Open Cut) Regulation 1999	CMOCR 1999	01/09/1999	Repealed	*CMOCR	*Notifiable Incidents CMOCR 1999, CI 16
	Coal Mines (Underground) Regulation 1999	CMUGR 1999	01/09/1999	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 MHSR 2007	01/09/2008	Current	MHS	MHSR 2007 CI 145 MHSR 2007 CI 146(1) Non Spec Acc Ending in Fat/Injury
Petroleum	Petroleum Onshore Act Schedule 1992	POASch 1992	08/1992	Current	POASch	POASch 1992
All	Explosives Regulation 2005	EXPLR 2005	01/09/2005	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 201

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 202

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 203

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

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

Appendix B.5 Notifiable Injury Outcomes and Relevant Legislation

Figure 204

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
	MHSR 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
	MHSR 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
	MHSR 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 205

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 206

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 207
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 Notice Categories and Relevant Legislation

Figure 208
Enforcement Notice Categories and Types

Enforcement Notice Category	Legislation and Enforcement Notice Type		
Advice/Improvement	*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
	OHSA 2000	S 91	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
	OHSA 2000	S 93	Issue of prohibition notices
Investigation	OHSA 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
Explosives	EXPLR 2005	CI 99	Certain powers of inspectors and police officers

**indicates repealed legislation*

Appendix B.9 Sources of Data

Figure 209
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 I&I NSW 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 I&I NSW Mineral Royalty Returns to 2006-07 I&I NSW 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 I&I NSW 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 I&I NSW Monthly Injury (Non Serious) Forms Mines Inspection General Rule 2000 CI 26 I&I NSW Incident and Injury Notifications to first quarter 2008-09 I&I NSW 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"> I&I NSW Quarterly Workplace Injury Reports Coal Mine Health and Safety Regulation 2006 CI 206 from 2007-08
	Metalliferous Extractives	<ul style="list-style-type: none"> I&I NSW 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"> I&I NSW Incident and Injury Notifications
Assessments Enforcement Notices	All	<ul style="list-style-type: none"> I&I NSW COMET Mine Safety database

Figure 210

Sources of Other National and International Data

Data	Source
Queensland, Australia	<ul style="list-style-type: none">• Queensland Mines and Quarries Safety Performance and Health Reports 2000-01 to 2008-09
Western Australia United States of America Ontario, Canada	<ul style="list-style-type: none">• Safety Performance Report of the Australian Minerals Industry – Minerals Council of Australia 2007-08

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. Industry & Investment NSW accepts no responsibility for the content of external sites.

- Industry & Investment NSW – Mine Safety
www.dpi.nsw.gov.au/minesafety
- 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 Mines and Quarries Safety Performance and Health Reports
<http://www.dme.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/safety/safety_and_health_performance/index.html
- Safe Work Australia data and statistics
<http://www.safeworkaustralia.gov.au/swa/AboutUs/Publications/DataandStatistics.htm>
- National Data Set for Compensation-based Statistics (NDS) - National Online Statistics Interactive (NOSI)
<http://nosi.ascg.gov.au/>
- USA Mine Health and Safety Administration
<http://www.msha.gov/>
- Canadian Institute of Mining Metallurgy and Petroleum (CIM)
<http://www.cim.org/Safety/>
- South Africa Department of Minerals and Energy – Mine Safety statistics
http://www.dme.gov.za/mhs/accident_stats.stm

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