



Trade &  
Investment



# NSW Mine Safety Performance Report

2010 – 2011

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16 December 2011

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# DEFINITIONS

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## *Injury Classifications*

### **Fatal Injury (FI)**

An injury that results in death.

### **Lost Time Injury (LTI)**

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

### **Medical Treatment Injury (MTI)**

An injury requiring medical treatment.

### **Restricted Duty Injury (RDI)**

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

### **Total Recordable Injuries (TRI)**

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

### **Serious Bodily Injury (SBI)**

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

#### **Serious Bodily Injury (SBI) – Coal**

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

#### **Serious Injury (SI) – Non-Coal**

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

#### **Serious Injury (SI) – Petroleum (Onshore)**

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

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

### **Notifiable Injury Outcomes**

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

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

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

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

## Frequency Rates

### Fatal Injury Frequency Rate (FIFR)

The number of fatal injuries per million hours worked.

### Lost Time Injury Frequency Rate (LTIFR)

The number of lost time injuries per million hours worked.

### Serious Bodily Injury Frequency Rate (SBIFR)

The number of serious bodily injuries per million hours worked.

### Total Recordable Injury Frequency Rate (TRIFR)

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

### Five-Year Average

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

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

*Refer to Appendix B.9 for Sources of Data*

## Enforcement and Advice Notices

### Advice/Improvement Notice

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

### Prohibition Notice

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

### Investigation Notice

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

### Explosives Notice

Notice regarding certain powers of inspectors in relation to explosives.

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

## Current Legislation

<b>Coal</b>	<b>CMHSA 2002</b> <b>CMHSR 2006</b>	Coal Mine Health and Safety Act 2002 Coal Mine Health and Safety Regulation 2006
<b>Non-Coal</b>	<b>MHSA 2004</b> <b>MHSR 2007</b>	Mine Health and Safety Act 2004 Mine Health and Safety Regulation 2007
<b>Petroleum</b>	<b>POSch 1992</b>	Petroleum (Onshore) Schedule 1992
<b>Explosives</b>	<b>EXPLA 2003</b> <b>EXPLR 2005</b>	Explosives Act 2003 Explosives Regulation 2005
<b>OHS</b>	<b>OHSA 2000</b> <b>OHSR 2001</b>	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 NSW Trade & Investment's Mine Safety Operations branch.

## Event

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

## Event Type

This report covers Incident and Assessment events.

## Event Subtype

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

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

## Incident

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

## Notifiable Incident

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

## Non-Notifiable Incident – High Potential Incident or Complaint

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

## Incident Type

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

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

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

## Incident Subtype

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

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

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

## Incident Investigation Level

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

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

Level 2 – Official to attend mine.

Level 3 – Detailed investigation suitable for further action.

**Assessment**

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

**Mine Type**

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

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

**Mine Operation Type**

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

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

# 1 EXECUTIVE SUMMARY

---

This report summarises the incidents and injuries notified to NSW Trade & Investment by the NSW Mining and Extractives industry, and the assessments conducted and enforcements and advice issued by the NSW Mine Safety inspectorate in the 2010-2011 financial year, set against twelve years of data from 1999.

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

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

In 2010-11 there was one fatality in the Coal underground sector, while the Metalliferous, Extractives and Petroleum (Onshore) sectors were fatality free.

Due to the single fatality in the Coal underground sector, the five year average fatal injury frequency rate to June 2011 increased 16.7% for coal and remained unchanged for metalliferous and extractives. Overall, the five year average fatal injury frequency rate (FIFR) to June 2011 fell by 37.5% compared to June 2006.

Five year average frequency rates of lost time injuries and serious bodily injuries continued their downward trend of the past decade. There were 14% fewer lost time injuries in 2010-11 than in the previous year. The five year average lost time injury frequency rate (LTIFR) to June 2011 fell 53.9% compared to June 2006. The five year average serious bodily injury frequency rate (SBIFR) for 2010-11 reached a record low of 0.88 and fell by 48.5% compared to June 2006. There were 9.2% fewer total recordable injuries in 2010-11 than in the previous year.

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

2010-11 was the fourth 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 2010-11 than the average notified for the last five years (2001-02 to 2005-06) under the former legislation and 75% of all incidents occurred in the coal underground sector.

2010-11 was the second 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 2010-11 was 20.4% higher than the average notified for the last five years (2003-04 to 2007-08) under the former legislation.

In 2010-11, 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 2010-11, the most common causes of injuries with notifiable outcomes (mainly hospital inpatient admission or seven days of lost time and/or alternative duties) were slips and trips, muscular stressing, or being hit by moving or falling objects. Hand and finger injuries featured prominently, 81.4% occurred in underground operations and the majority were related to either the work environment or mobile mechanical equipment.



## Major Performance Measures

### Targets

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

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

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

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

### Fatalities

In 2010-11 there was one fatality in the Coal underground, while the Metalliferous, Extractives and Petroleum (Onshore) sectors were fatality free.

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

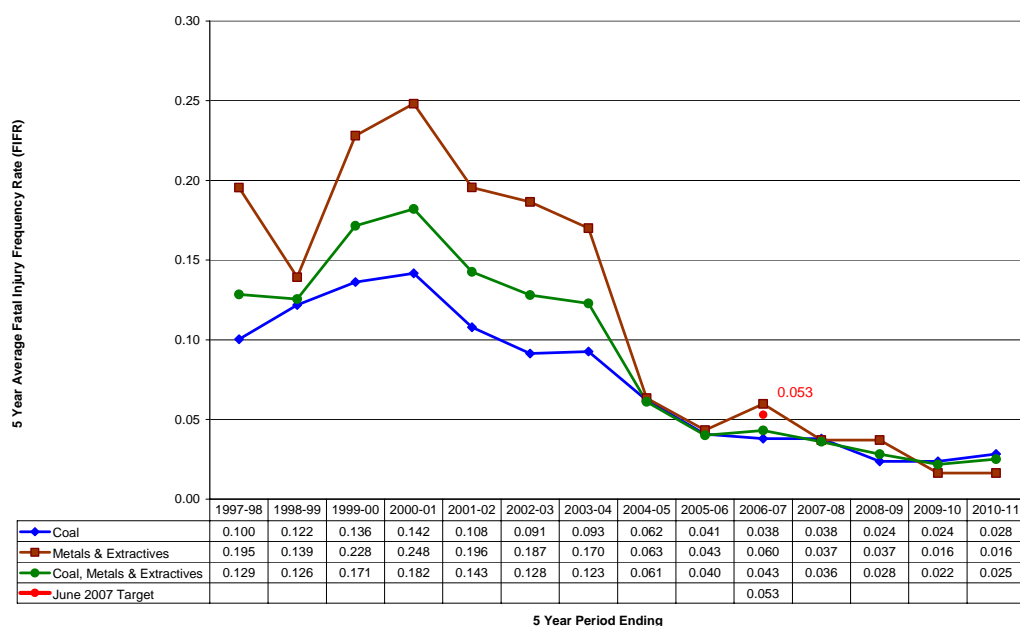
The Five Year Average Fatal Injury Frequency Rate to June 2007 was 0.043. This achieved both the mid-term and the ten-year targets.

The Five Year Average Fatal Injury Frequency Rate to June 2011 was 0.025. This was an improvement of 37.5% compared to the 0.040 recorded for the five years to June 2006 and is 46.8% below the June 2012 target. The industry goal remains zero fatalities.

#### Figure 1

NSW Coal, Metalliferous & Extractives 5 Year Average Fatal Injury Frequency Rate (FIFR) 1997-98 to 2010-11

June 2012 National Target is 0.047

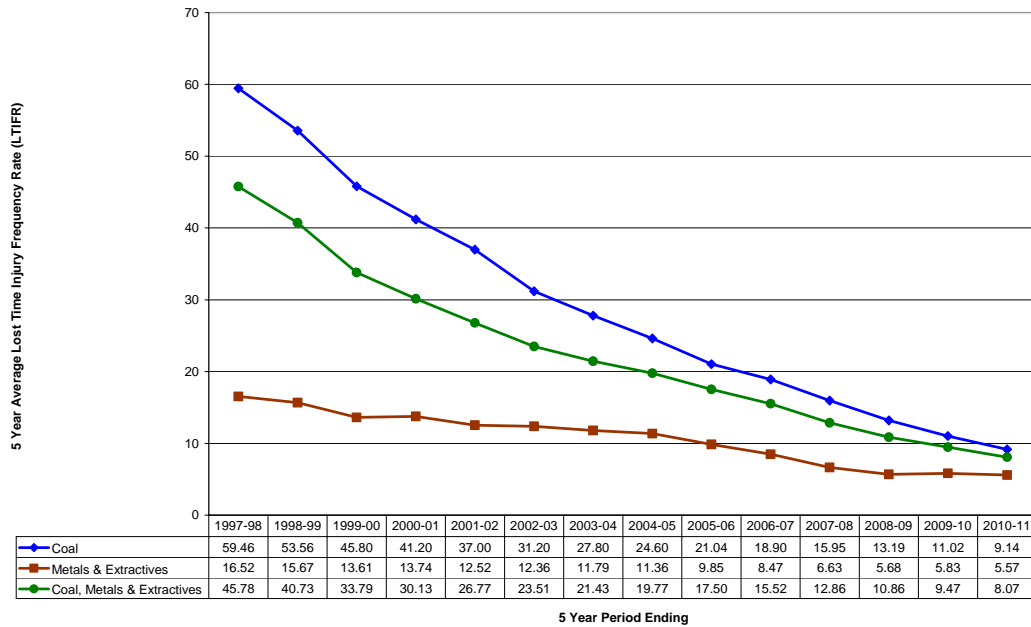


## Lost Time Injuries

The Five Year Average Lost Time Injury Frequency Rate (LTIFR) of 8.07 to June 2011 was down 53.9% from the 17.5 recorded for the five years to June 2006.

**Figure 2**

NSW Coal, Metalliferous & Extractives 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11

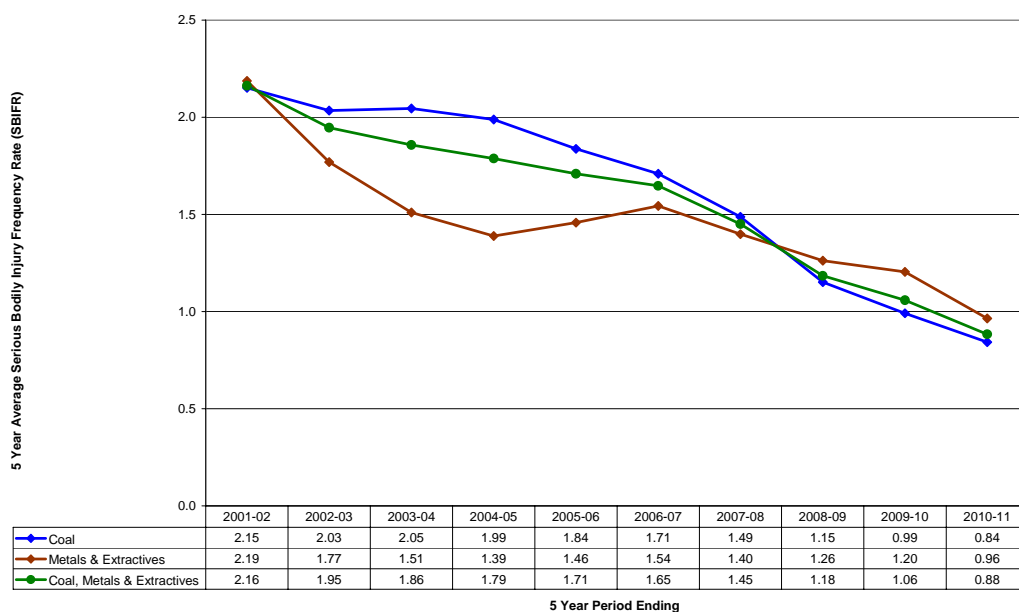


## Serious Bodily Injuries

The Five Year Average Serious Bodily Injury Frequency Rate (SBIFR) of 0.88 to June 2011 was down 48.5% from the 1.71 recorded for the five years to June 2006.

**Figure 3**

NSW Coal, Metalliferous & Extractives 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2001-02 to 2010-11



## 2 INTRODUCTION

---

### ***Purpose***

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

### ***Objectives***

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

### ***About Industry & Investment NSW - Mine Safety***

The NSW Department of Trade & Investment, Regional Infrastructure & Services (NSW Trade & Investment) 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 under the auspices of the Mine Safety Advisory Council for the industry to achieve significant improvements in OHS through a systematic performance based approach to managing risk. Industry has agreed that further OHS improvement will require OHS culture change 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 to achieve the Council's vision of achieving World-leading OHS in the NSW mining and extractives industry.

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

Further information and resources are available from the websites:

- NSW Trade & Investment - Mine Safety  
[www.dpi.nsw.gov.au/minerals/safety](http://www.dpi.nsw.gov.au/minerals/safety)
- NSW Mine Safety Advisory Council  
[www.nswminesafety.com.au](http://www.nswminesafety.com.au)

## ***The COMET Database***

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

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

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

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

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

<b>Mine Category</b>	<b>Legislation</b>	<b>Referred to as</b>	<b>Commencement</b>
<b>Coal</b>	Coal Mines Health and Safety Act 2002	CMHSA 2002	23/12/2006
	Coal Mines Health and Safety Regulation 2006	CMHSR 2006	
<b>Non-Coal</b>	Mine Health and Safety Act 2004	MHSA 2004	01/09/2008
	Mine Health and Safety Regulation 2007	MHSR 2007	
<b>Petroleum (Onshore)</b>	Petroleum (Onshore) Schedule 1992	POSch 1992	08/1992
<b>All</b>	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 NSW Trade & Investment in the Coal, Metalliferous, Extractives, Non-Coal Other and Petroleum (Onshore) mining sectors, including Complaints and High Potential incidents.

In 2010-11:

- The number of incidents notified was almost six times the average number of incidents notified for the five years (2001-02 to 2005-06) under the former legislation. This increase reflects the new and more inclusive reporting requirements of the legislation.
- 75% of all incidents occurred in the coal underground sector.

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

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

The following key applies to incidents in Figures 5, 7, 8, 15, 16, 17 and 25:

<b>New requirement</b>	Increase in notifications resulting from new reporting requirements
<b>More inclusive</b>	Increase in notifications resulting from wider scope of reporting requirements
<b>Same/Similar</b>	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 2010-11

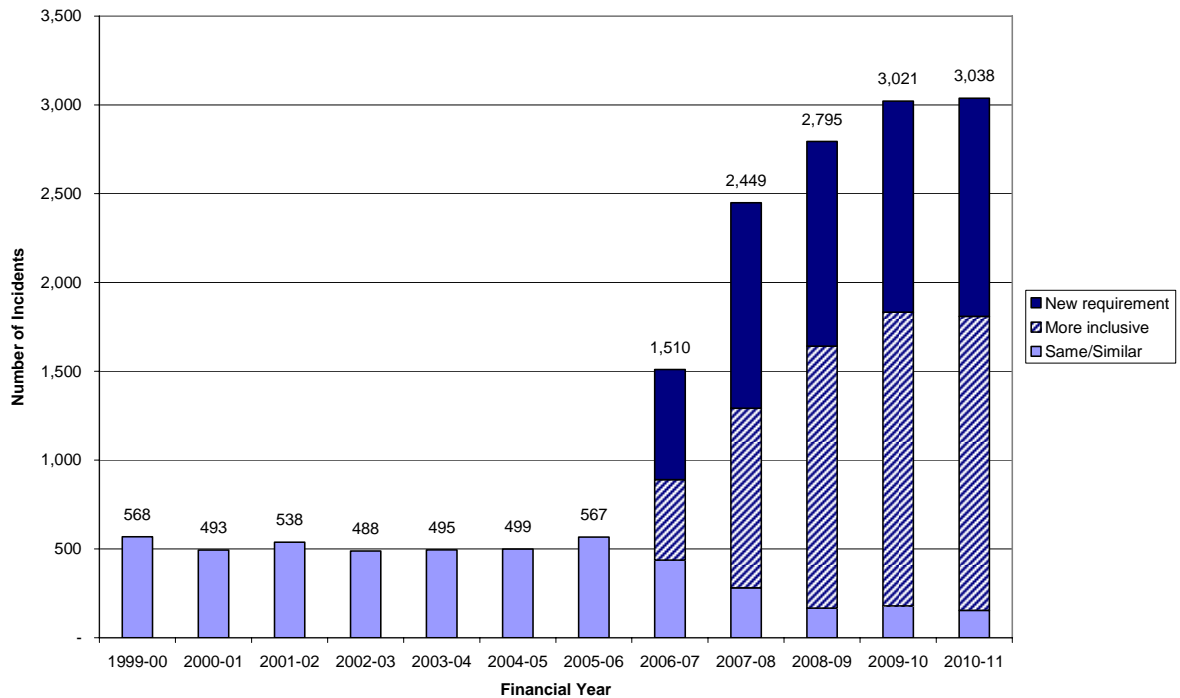
*NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09  
"Unknown" refers to incidents reported by non-mine organisations*

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Coal	269	297	313	252	279	266	339	1,283	2,249	2,568	2,742	2,763	13,620
Metalliferous	177	119	141	132	136	147	155	148	130	144	185	160	1,774
Extractives	102	71	74	97	72	83	68	71	64	74	79	106	961
Non-Coal Other	9	2	1	3	4	1	3	1	2	2	3	2	33
Petroleum (Onshore)	1	1	2	-	1	-	-	3	-	3	10	2	23
Unknown	10	3	7	4	3	2	2	4	4	4	2	5	50
<b>Total</b>	<b>568</b>	<b>493</b>	<b>538</b>	<b>488</b>	<b>495</b>	<b>499</b>	<b>567</b>	<b>1,510</b>	<b>2,449</b>	<b>2,795</b>	<b>3,021</b>	<b>3,038</b>	<b>16,461</b>

**Figure 5**

All Incidents 1999-00 to 2010-11

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 2010-11

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

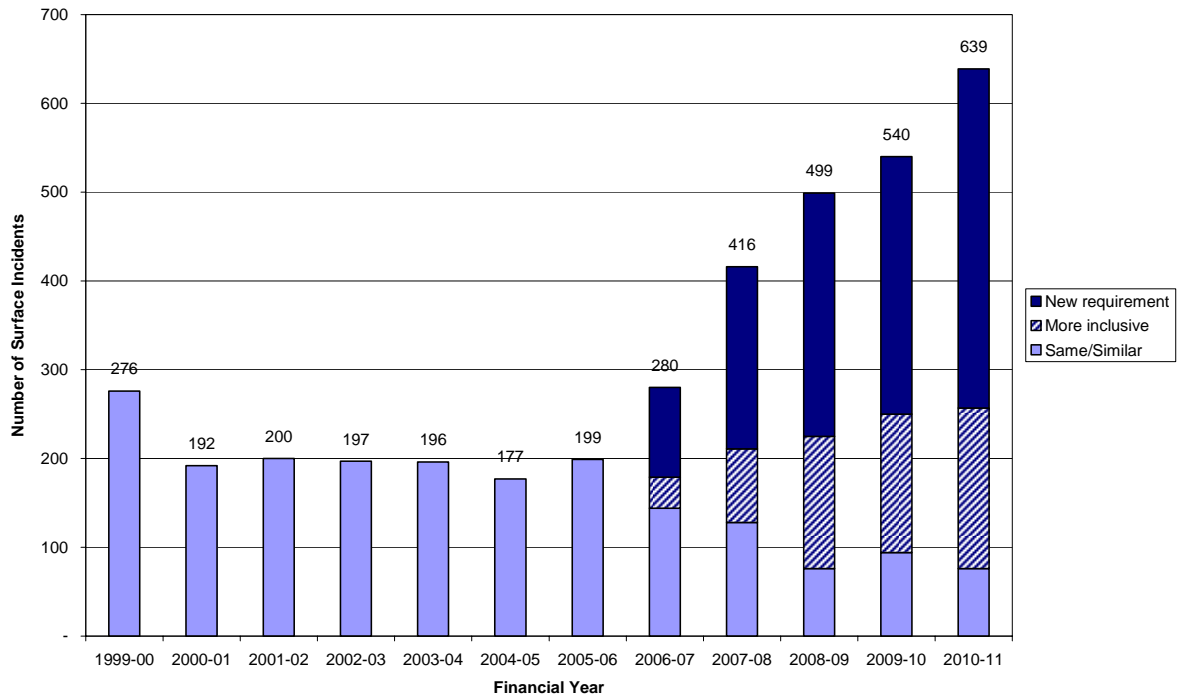
"Unknown" refers to incidents reported by non-mine organisations, and therefore with no operation type.

Operation Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Underground	282	298	331	287	296	320	366	1,226	2,029	2,292	2,479	2,394	12,600
Surface	276	192	200	197	196	177	199	280	416	499	540	639	3,811
Unknown	10	3	7	4	3	2	2	4	4	4	2	5	50
<b>Total</b>	<b>568</b>	<b>493</b>	<b>538</b>	<b>488</b>	<b>495</b>	<b>499</b>	<b>567</b>	<b>1,510</b>	<b>2,449</b>	<b>2,795</b>	<b>3,021</b>	<b>3,038</b>	<b>16,461</b>

**Figure 7**

All Surface Incidents 1999-00 to 2010-11

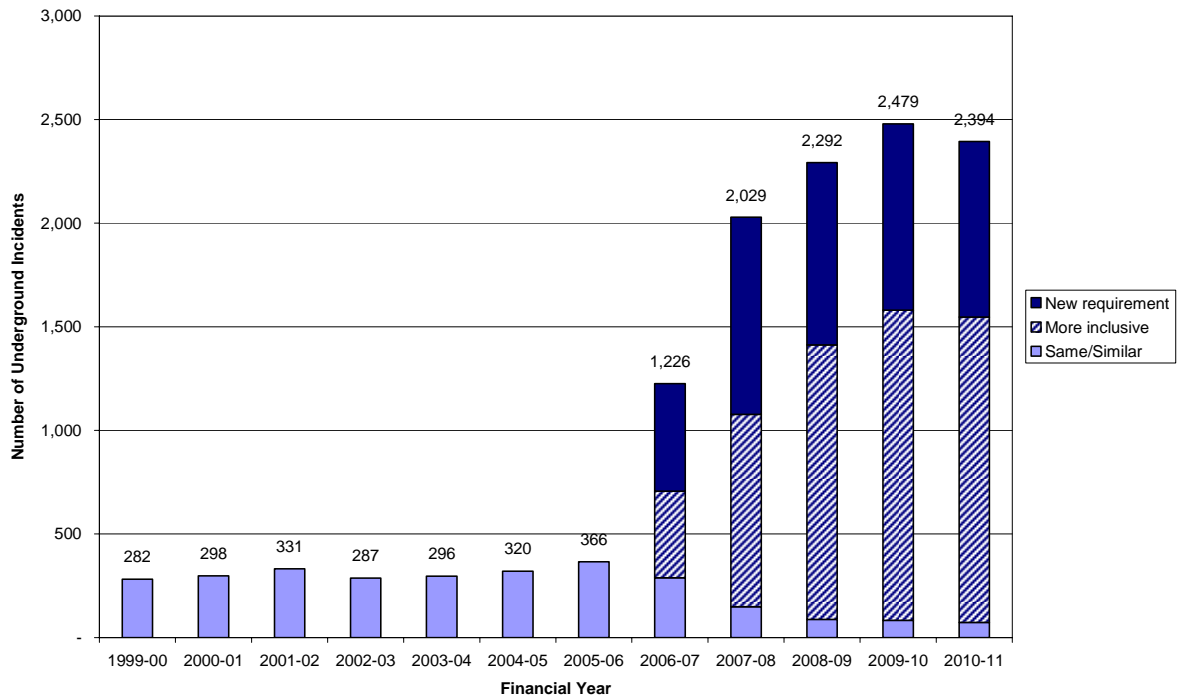
NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09



**Figure 8**

All Underground Incidents 1999-00 to 2010-11

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 2010-11

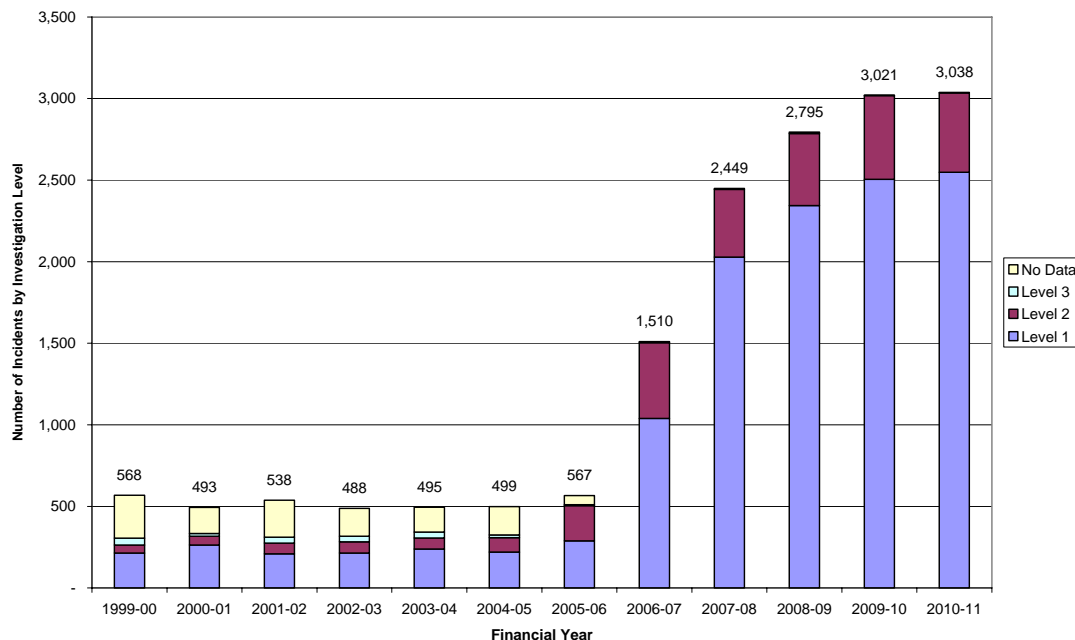
NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Level 1 - No need to attend. Mine to investigate & report.	215	263	209	214	239	220	289	1,039	2,028	2,345	2,504	2,548	12,113
Level 2 - Official to attend mine.	48	54	65	68	68	88	216	464	415	441	514	487	2,928
Level 3 - Detailed investigation suitable for further action	43	16	37	35	35	17	5	7	6	9	3	3	216
No Data	262	160	227	171	153	174	57	-	-	-	-	-	1,204
<b>Total</b>	<b>568</b>	<b>493</b>	<b>538</b>	<b>488</b>	<b>495</b>	<b>499</b>	<b>567</b>	<b>1,510</b>	<b>2,449</b>	<b>2,795</b>	<b>3,021</b>	<b>3,038</b>	<b>16,461</b>

**Figure 10**

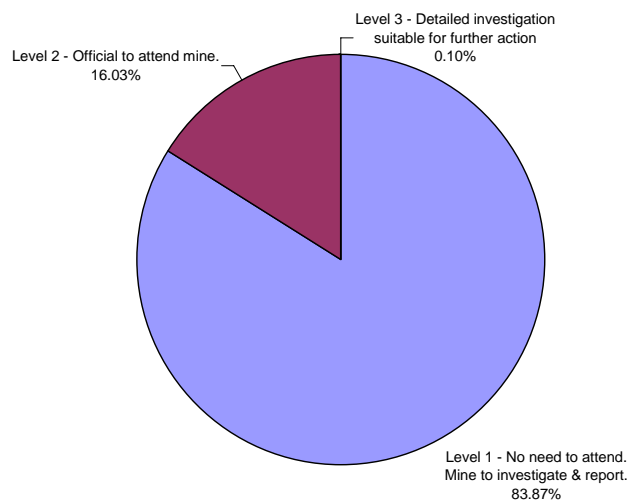
All Incidents by Incident Investigation Level 1999-00 to 2010-11

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 2010-11





### 3.1.4 All Incidents by Event Subtype

**Figure 12**

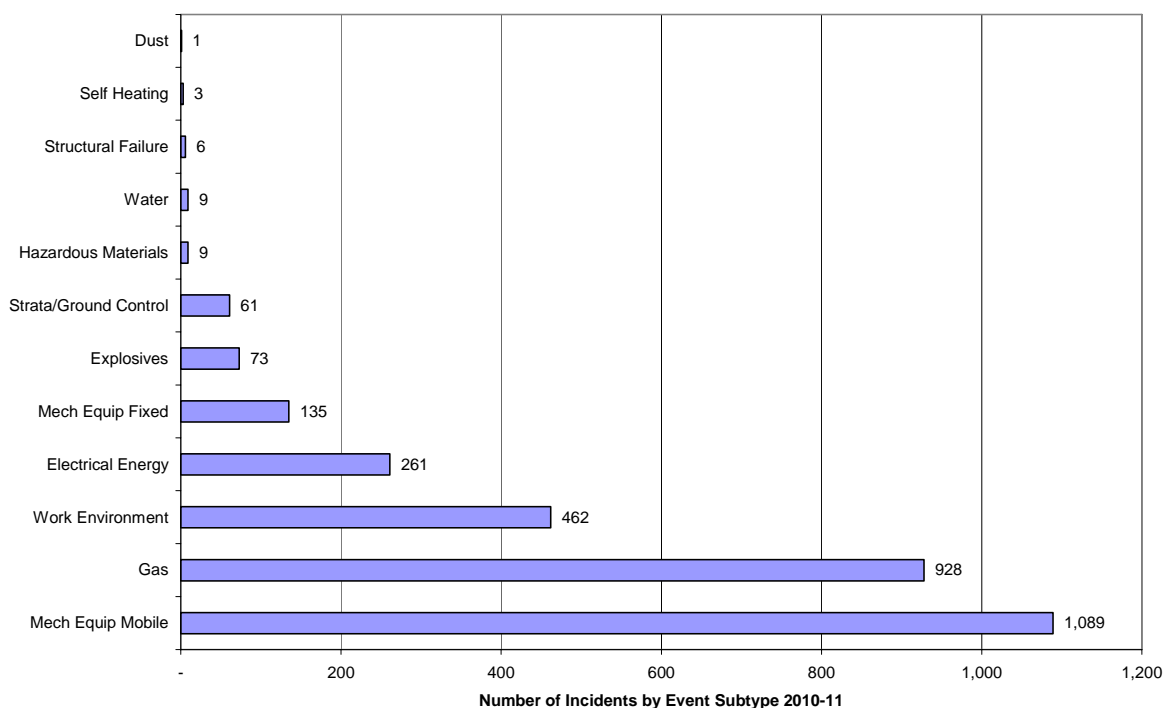
All Incidents by Event Subtype 1999-00 to 2010-11

*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	2010-11	Total
Mech Equip Mobile	248	222	216	190	206	200	228	646	1,019	1,101	1,250	1,089	6,615
Gas	5	7	9	6	12	9	4	296	669	810	799	928	3,554
Work Environment	116	58	60	43	57	52	55	177	350	347	395	462	2,172
Electrical Energy	55	101	141	130	129	157	196	235	217	239	276	261	2,137
Mech Equip Fixed	47	34	33	43	32	25	26	46	64	159	159	135	803
Explosives	19	14	20	22	14	22	19	51	64	68	57	73	443
Strata/Ground Control	32	30	41	27	24	25	23	34	42	42	51	61	432
Hazardous Materials	15	8	5	8	6	1	1	5	7	9	8	9	82
Water	10	6	1	7	2	2	4	4	3	1	5	9	54
Structural Failure	10	5	4	5	8	5	7	10	11	10	11	6	92
Self Heating	7	4	3	3	3	-	4	5	3	7	7	3	49
Fatality - Non-mining	1	2	3	2	1	-	-	1	-	-	-	1	11
Dust	3	2	2	2	1	1	-	-	-	2	3	1	17
<b>Total</b>	<b>568</b>	<b>493</b>	<b>538</b>	<b>488</b>	<b>495</b>	<b>499</b>	<b>567</b>	<b>1,510</b>	<b>2,449</b>	<b>2,795</b>	<b>3,021</b>	<b>3,038</b>	<b>16,461</b>

**Figure 13**

All Incidents by Event Subtype 2010-11



## 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).

In 2010-11:

- The number of coal incidents notified was over nine times the average number of incidents notified for the last five years (2001-02 to 2005-06) under the former legislation. This increase reflects the new and more inclusive reporting requirements of the legislation.
- 82.3% of all coal incidents occurred in underground operations.

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

### 3.2.1 Coal Incidents by Operation Type

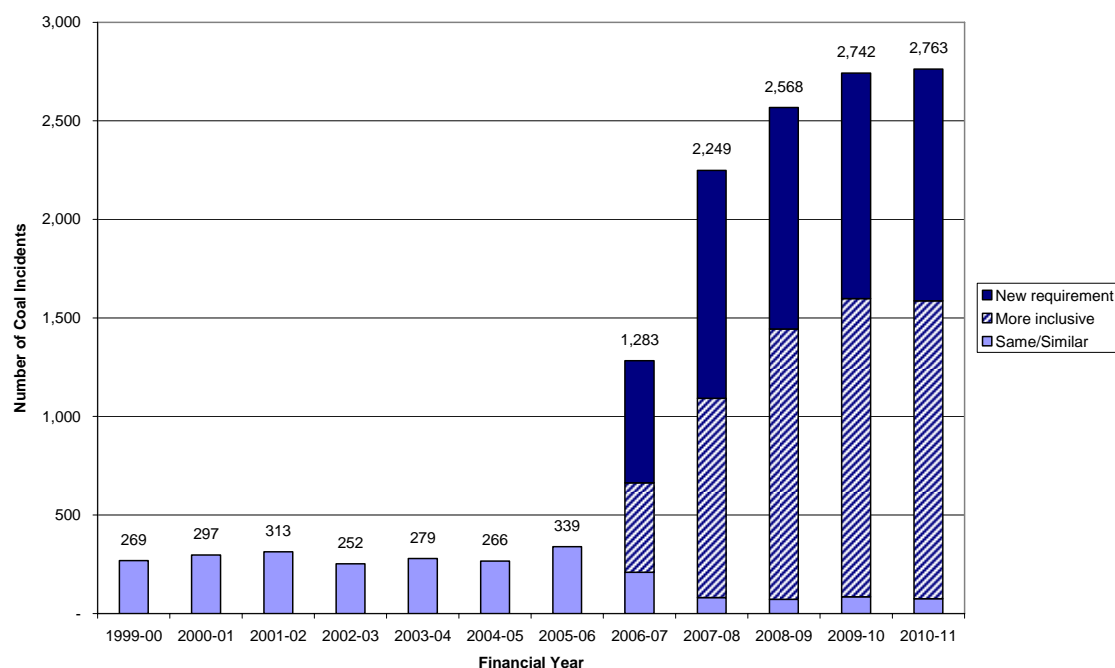
**Figure 14**

Coal Incidents by Operation Type 1999-00 to 2010-11  
*NB Increase from mid 2006-07 due to requirements of CMHSR 2006*

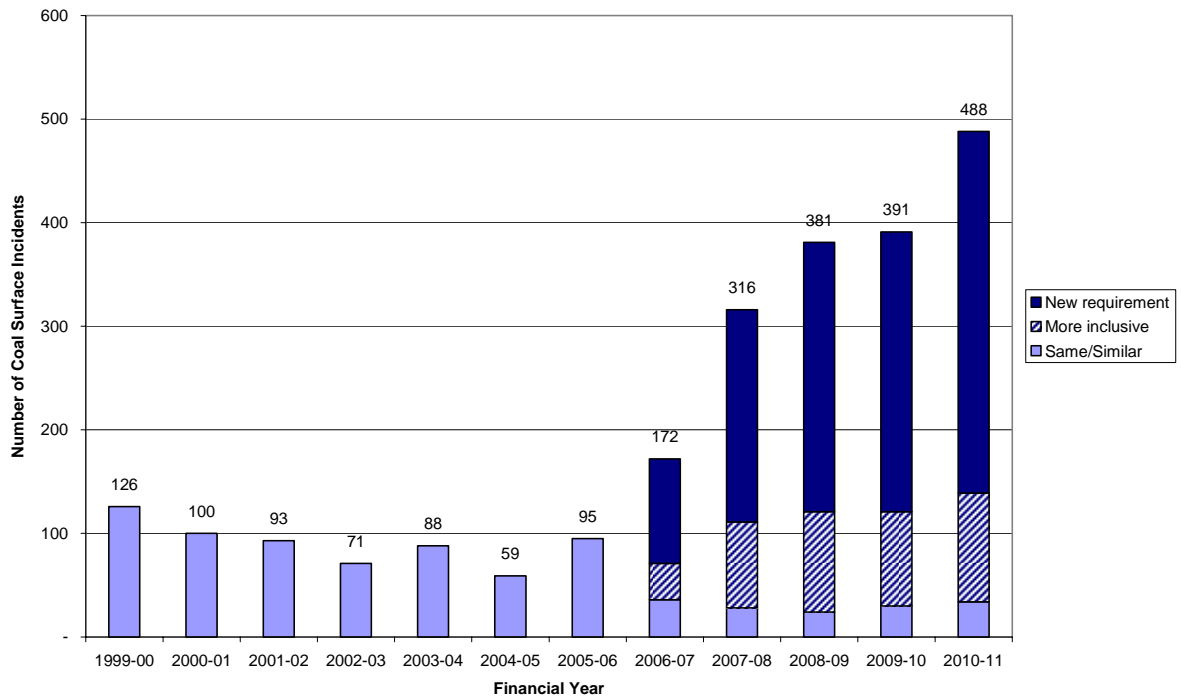
Operation Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Underground	143	197	220	181	191	207	244	1,111	1,933	2,187	2,351	2,275	11,240
Surface	126	100	93	71	88	59	95	172	316	381	391	488	2,380
<b>Total</b>	<b>269</b>	<b>297</b>	<b>313</b>	<b>252</b>	<b>279</b>	<b>266</b>	<b>339</b>	<b>1,283</b>	<b>2,249</b>	<b>2,568</b>	<b>2,742</b>	<b>2,763</b>	<b>13,620</b>

**Figure 15**

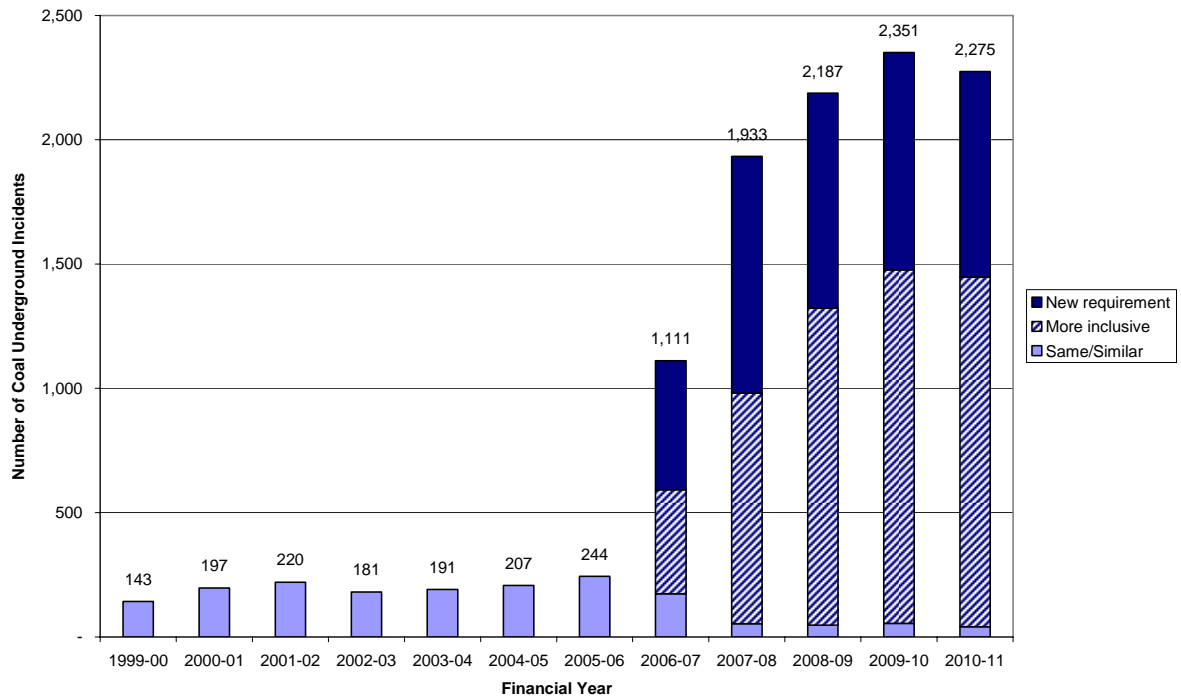
Coal Incidents 1999-00 to 2010-11  
*NB Increase from mid 2006-07 due to requirements of CMHSR 2006*



**Figure 16**  
 Coal Surface Incidents 1999-00 to 2010-11  
 NB Increase from mid 2006-07 due to requirements of CMHSR 2006



**Figure 17**  
 Coal Underground Incidents 1999-00 to 2010-11  
 NB Increase from mid 2006-07 due to requirements of CMHSR 2006



### 3.2.2 Coal Incidents by Incident Investigation Level

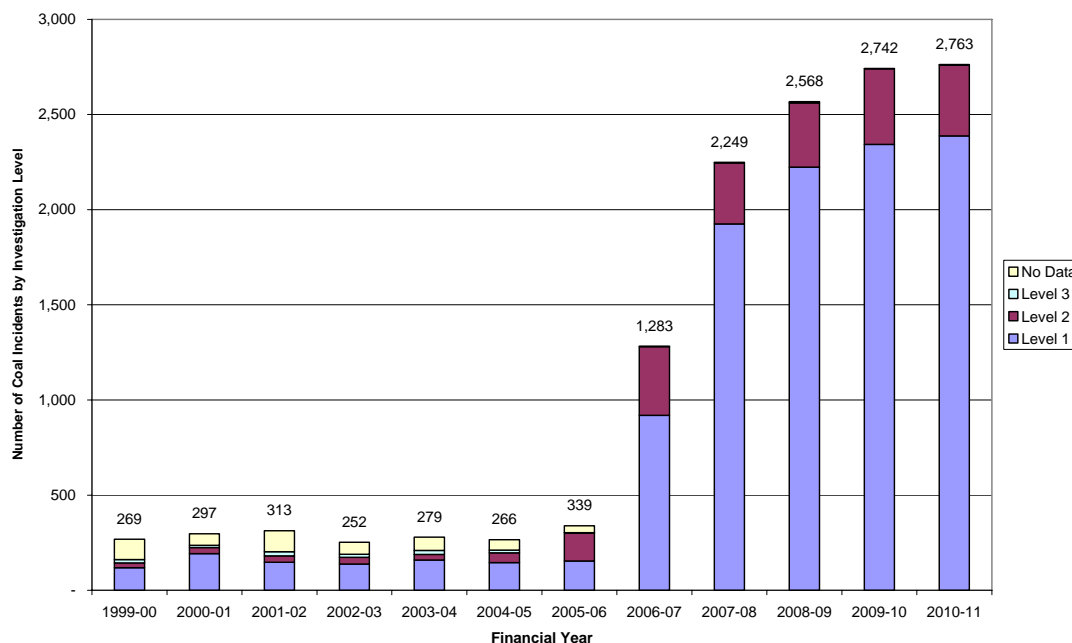
**Figure 18**

Coal Incidents by Incident Investigation Level 1999-00 to 2010-11  
*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	2010-11	Total
Level 1 - No need to attend. Mine to investigate & report.	119	192	148	138	159	146	154	919	1,925	2,224	2,343	2,388	10,855
Level 2 - Official to attend mine.	25	33	33	35	30	51	148	361	321	337	398	372	2,144
Level 3 - Detailed investigation suitable for further action	18	11	22	17	21	14	1	3	3	7	1	3	121
No Data	107	61	110	62	69	55	36	-	-	-	-	-	500
<b>Total</b>	<b>269</b>	<b>297</b>	<b>313</b>	<b>252</b>	<b>279</b>	<b>266</b>	<b>339</b>	<b>1,283</b>	<b>2,249</b>	<b>2,568</b>	<b>2,742</b>	<b>2,763</b>	<b>13,620</b>

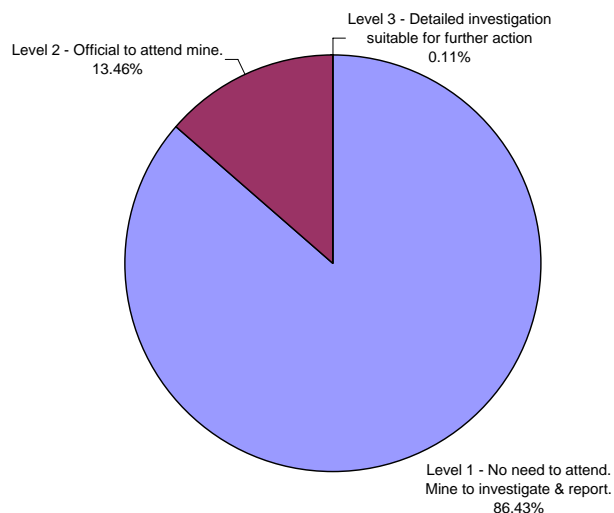
**Figure 19**

Coal Incidents by Incident Investigation Level 1999-00 to 2010-11  
*NB Increase from mid 2006-07 due to requirements of CMHSR 2006*



**Figure 20**

Coal Incidents by Incident Investigation Level 2010-11



### 3.2.3 Coal Incidents by Event Subtype

**Figure 21**

Coal Incidents by Event Subtype 1999-00 to 2010-11

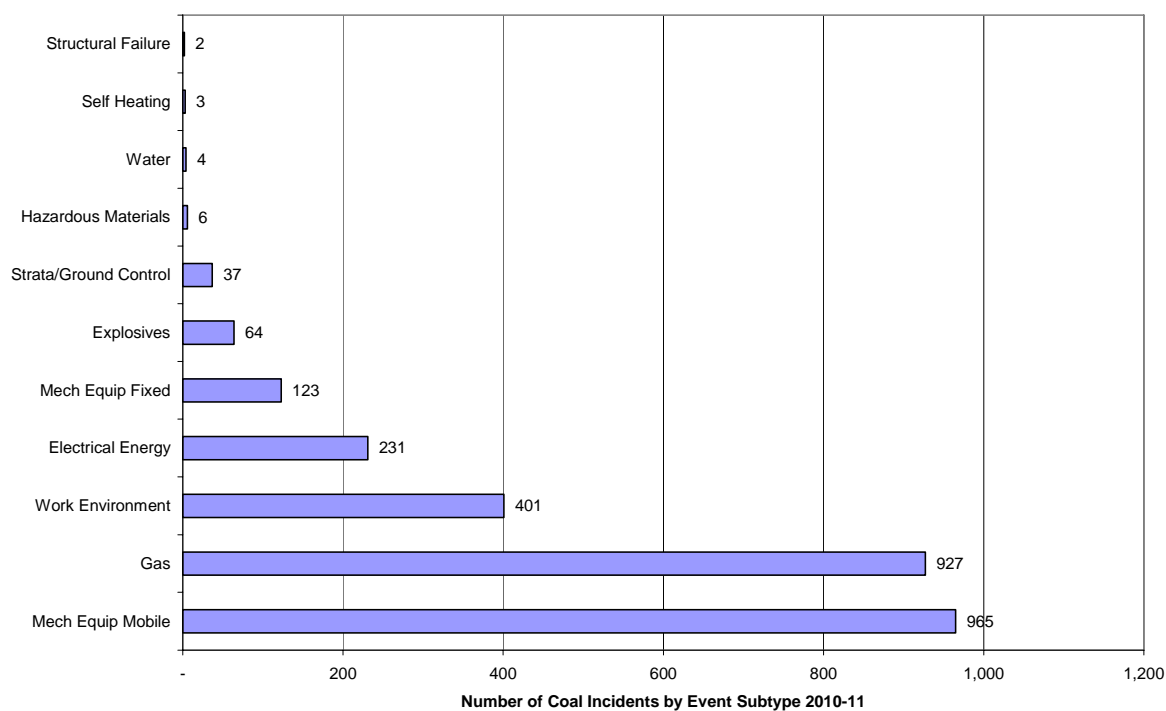
*NB Increase from mid 2006-07 due to requirements of CMHSR 2006*

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Mech Equip Mobile	141	145	121	94	114	96	116	538	938	983	1,122	965	5,373
Gas	2	2	6	5	11	7	4	294	665	810	799	927	3,532
Electrical Energy	36	70	111	84	91	116	166	200	187	212	241	231	1,745
Work Environment	24	16	24	17	22	18	21	136	308	312	333	401	1,632
Mech Equip Fixed	27	29	18	25	19	13	16	39	48	146	146	123	649
Strata/Ground Control	19	21	26	12	14	9	10	28	30	33	31	37	270
Explosives	-	1	-	2	1	4	-	30	55	55	49	64	261
Structural Failure	7	3	-	2	4	3	1	8	9	7	9	2	55
Self Heating	7	4	3	3	2	-	4	4	2	5	5	3	42
Hazardous Materials	5	1	1	5	-	-	-	4	6	3	5	6	36
Water	1	2	-	1	-	-	1	2	1	1	1	4	14
Dust	-	2	1	1	1	-	-	-	-	1	1	-	7
Fatality - Non-mining	-	1	2	1	-	-	-	-	-	-	-	-	4
<b>Total</b>	<b>269</b>	<b>297</b>	<b>313</b>	<b>252</b>	<b>279</b>	<b>266</b>	<b>339</b>	<b>1,283</b>	<b>2,249</b>	<b>2,568</b>	<b>2,742</b>	<b>2,763</b>	<b>13,620</b>

**Figure 22**

Coal Incidents by Event Subtype 2010-11

*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 2010-11.

*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	2010-11	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
	<b>Total</b>	<b>60</b>	<b>17</b>	<b>7</b>	<b>20</b>	<b>15</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>119</b>
*CMGMR	Non Spec Acc Ending in Fat/Injury	40	38	31	20	32	29	29	33	-	-	-	-	252
	Notifiable Incidents DCCP CMGMR 1999, CI 83	18	20	20	9	8	8	15	5	-	-	-	-	103
	<b>Total</b>	<b>58</b>	<b>58</b>	<b>51</b>	<b>29</b>	<b>40</b>	<b>37</b>	<b>44</b>	<b>38</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>355</b>
*CMOCR	Notifiable Incidents CMOCR 1999, CI 16	49	73	54	40	64	39	69	10	-	-	-	-	398
	<b>Total</b>	<b>49</b>	<b>73</b>	<b>54</b>	<b>40</b>	<b>64</b>	<b>39</b>	<b>69</b>	<b>10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>398</b>
*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
	<b>Total</b>	<b>59</b>	<b>131</b>	<b>147</b>	<b>128</b>	<b>136</b>	<b>165</b>	<b>214</b>	<b>114</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,094</b>
CMHS	CMHSR 2006 CI 56(1)	-	-	-	-	-	-	-	789	1,547	1,877	2,015	2,037	8,265
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	215	484	437	434	429	1,999
	CMHSR 2006 CI 55	-	-	-	-	-	-	-	102	204	247	280	284	1,117
	CMHSR 2006 CI 57	-	-	-	-	-	-	-	-	-	1	5	4	10
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,106</b>	<b>2,235</b>	<b>2,562</b>	<b>2,734</b>	<b>2,754</b>	<b>11,391</b>
Explosives	Explosives Regulation 2005	-	-	-	-	-	-	-	1	-	-	-	-	1
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>
N/A	High Potential Incident	24	14	14	18	23	24	12	12	12	5	8	8	174
	Unknown	13	3	39	17	-	-	-	-	-	-	-	-	72
	Complaint	6	1	1	-	1	1	2	-	2	1	-	1	16
	<b>Total</b>	<b>43</b>	<b>18</b>	<b>54</b>	<b>35</b>	<b>24</b>	<b>25</b>	<b>14</b>	<b>12</b>	<b>14</b>	<b>6</b>	<b>8</b>	<b>9</b>	<b>262</b>
<b>Total</b>	<b>269</b>	<b>297</b>	<b>313</b>	<b>252</b>	<b>279</b>	<b>266</b>	<b>341</b>	<b>1,281</b>	<b>2,249</b>	<b>2,568</b>	<b>2,742</b>	<b>2,763</b>	<b>13,620</b>	

*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.

In 2010-11:

- The number of metalliferous and extractives incidents was 23.8% 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 2010-11

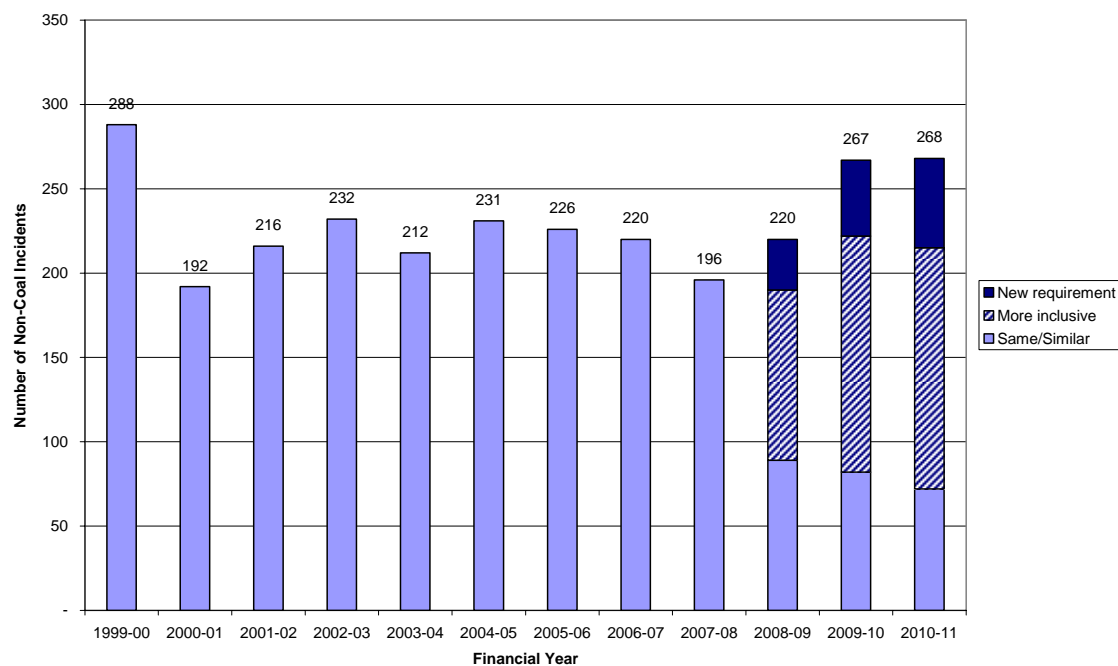
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

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	2010-11	Total
Surface	Metalliferous	38	18	30	26	34	39	39	34	36	41	61	44	440
	Extractives	102	71	74	97	71	78	62	70	62	73	77	104	941
	Non-Coal Other	9	2	1	3	2	1	3	1	2	1	1	1	27
	<b>Total</b>	<b>149</b>	<b>91</b>	<b>105</b>	<b>126</b>	<b>107</b>	<b>118</b>	<b>104</b>	<b>105</b>	<b>100</b>	<b>115</b>	<b>139</b>	<b>149</b>	<b>1,408</b>
Underground	Metalliferous	139	101	111	106	102	108	116	114	94	103	124	116	1,334
	Extractives	-	-	-	-	1	5	6	1	2	1	2	2	20
	Non-Coal Other	-	-	-	-	2	-	-	-	-	1	2	1	6
	<b>Total</b>	<b>139</b>	<b>101</b>	<b>111</b>	<b>106</b>	<b>105</b>	<b>113</b>	<b>122</b>	<b>115</b>	<b>96</b>	<b>105</b>	<b>128</b>	<b>119</b>	<b>1,360</b>
<b>Total</b>	<b>288</b>	<b>192</b>	<b>216</b>	<b>232</b>	<b>212</b>	<b>231</b>	<b>226</b>	<b>220</b>	<b>220</b>	<b>196</b>	<b>220</b>	<b>267</b>	<b>268</b>	<b>2,768</b>

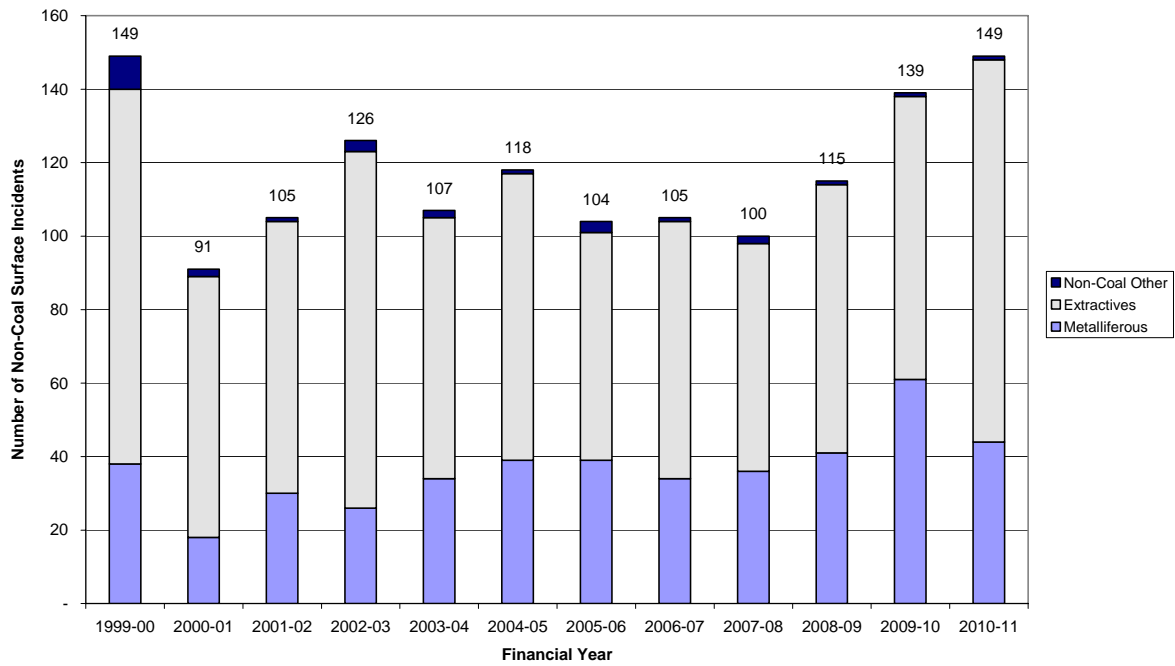
**Figure 25**

Non-Coal Incidents 1999-00 to 2010-11

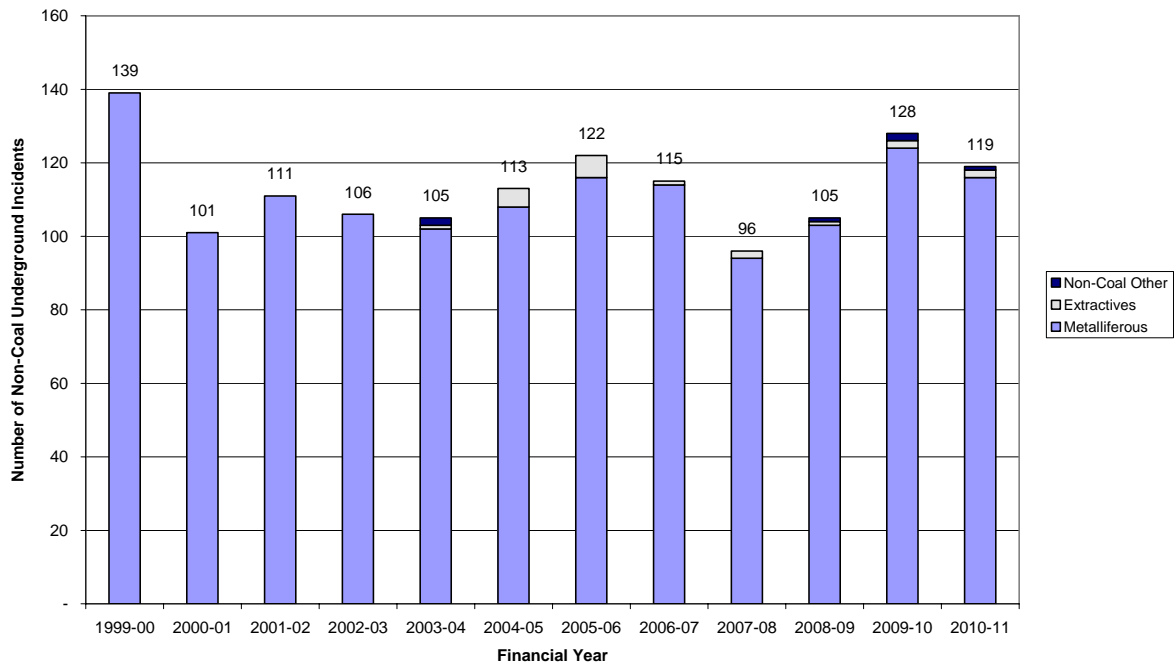
NB Increase from Q2 2008-09 due to requirements of MHSR 2007



**Figure 26**  
 Non-Coal Surface Incidents 1999-00 to 2010-11  
 NB Increase from Q2 2008-09 due to requirements of MHSR 2007



**Figure 27**  
 Non-Coal Underground Incidents 1999-00 to 2010-11  
 NB Increase from Q2 2008-09 due to requirements of MHSR 2007





### 3.3.2 Non-Coal Metalliferous Incidents by Incident Investigation Level

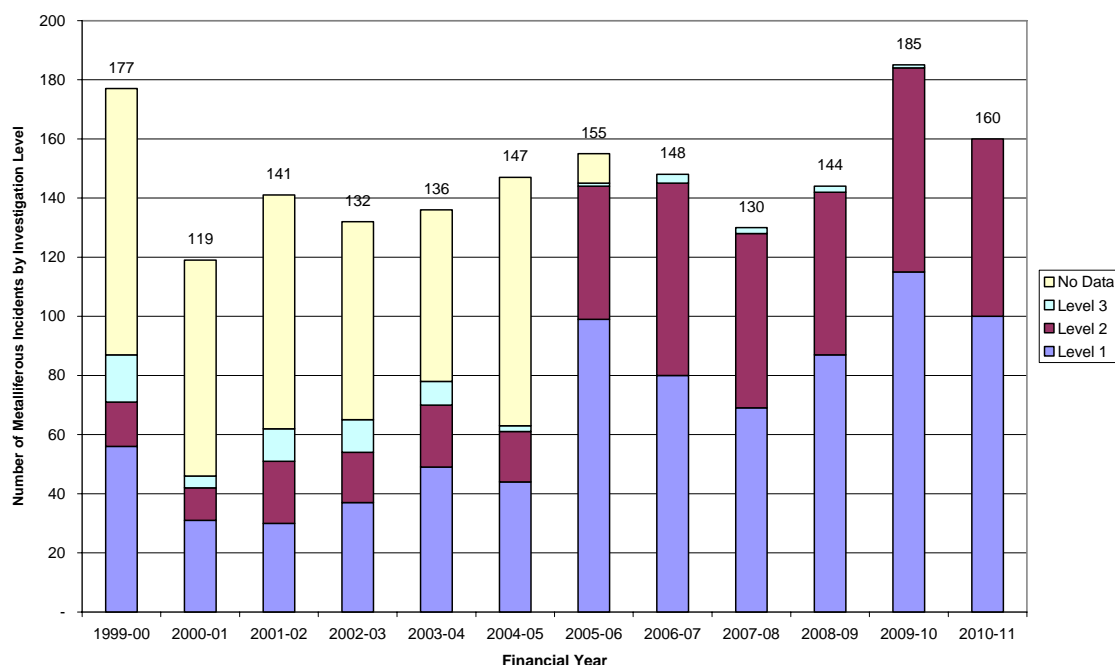
**Figure 28**

Non-Coal Metalliferous Incidents by Incident Investigation Level 1999-00 to 2010-11  
*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	2010-11	Total
Level 1 - No need to attend. Mine to investigate & report.	56	31	30	37	49	44	99	80	69	87	115	100	797
Level 2 - Official to attend mine.	15	11	21	17	21	17	45	65	59	55	69	60	455
Level 3 - Detailed investigation suitable for further action	16	4	11	11	8	2	1	3	2	2	1	-	61
No Data	90	73	79	67	58	84	10	-	-	-	-	-	461
<b>Total</b>	<b>177</b>	<b>119</b>	<b>141</b>	<b>132</b>	<b>136</b>	<b>147</b>	<b>155</b>	<b>148</b>	<b>130</b>	<b>144</b>	<b>185</b>	<b>160</b>	<b>1,774</b>

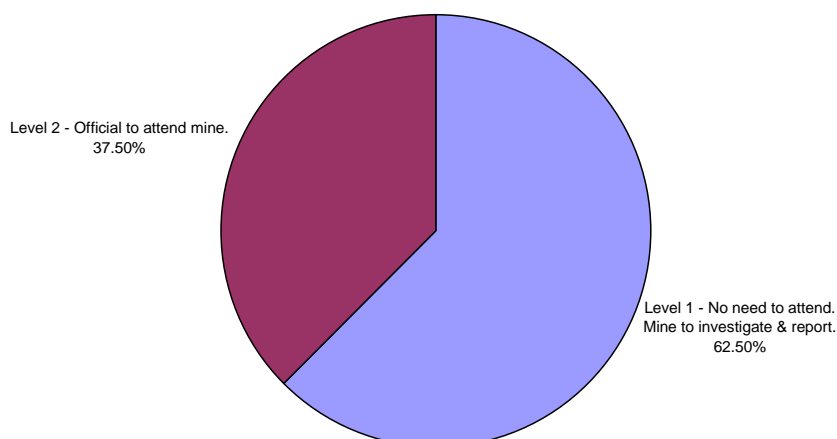
**Figure 29**

Non-Coal Metalliferous Incidents by Incident Investigation Level 1999-00 to 2010-11  
*NB Increase from Q2 2008-09 due to requirements of MHSR 2007*



**Figure 30**

Non-Coal Metalliferous Incidents by Incident Investigation Level 2010-11



### 3.3.3 Non-Coal Metalliferous Incidents by Event Subtype

**Figure 31**

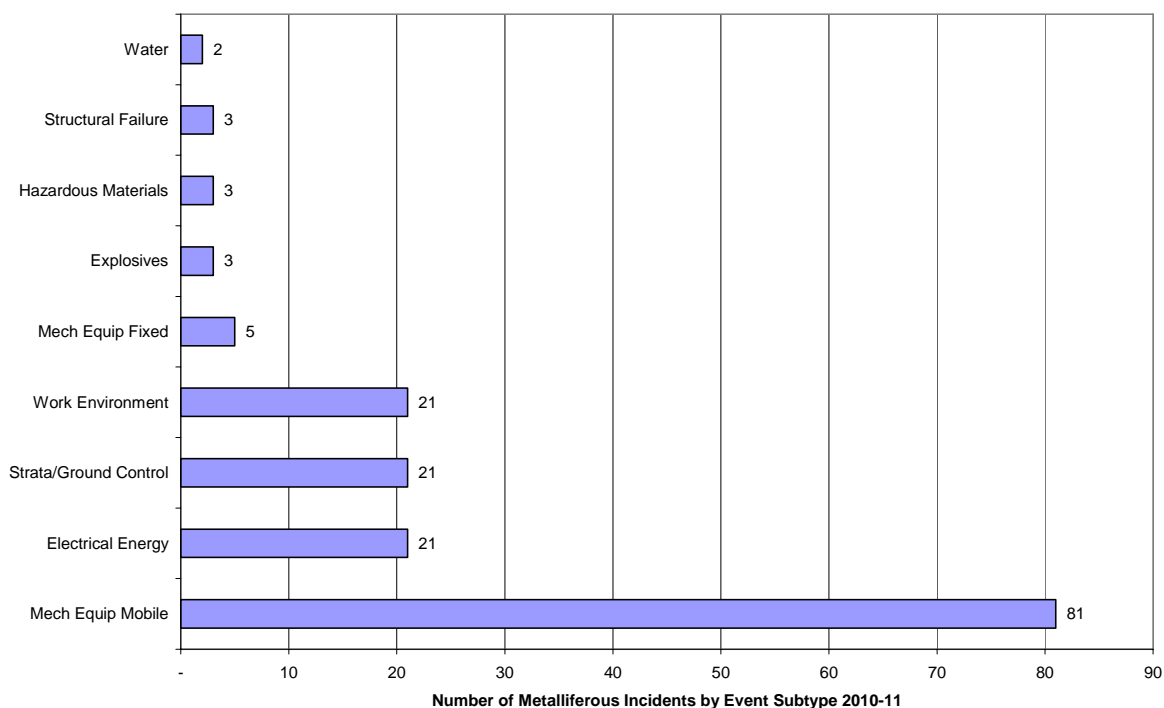
Non-Coal Metalliferous Incidents by Event Subtype 1999-00 to 2010-11

*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	2010-11	Total
Mech Equip Mobile	59	50	64	56	58	67	87	75	51	80	86	81	814
Electrical Energy	17	27	27	28	26	31	23	27	22	17	22	21	288
Work Environment	54	18	15	10	23	18	17	24	24	18	35	21	277
Strata/Ground Control	13	7	12	14	9	13	10	6	10	6	17	21	138
Mech Equip Fixed	11	2	7	9	6	10	8	3	11	8	10	5	90
Explosives	5	4	6	2	4	2	2	5	4	5	5	3	47
Hazardous Materials	4	5	4	3	5	-	1	1	-	5	3	3	34
Water	8	3	-	5	2	2	3	2	2	-	3	2	32
Structural Failure	1	1	3	3	1	2	4	2	2	3	1	3	26
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
<b>Total</b>	<b>177</b>	<b>119</b>	<b>141</b>	<b>132</b>	<b>136</b>	<b>147</b>	<b>155</b>	<b>148</b>	<b>130</b>	<b>144</b>	<b>185</b>	<b>160</b>	<b>1,774</b>

**Figure 32**

Non-Coal Metalliferous Incidents by Event Subtype 2010-11



### 3.3.4 Non-Coal Metalliferous Incidents by Incident Type

**Figure 33**

Non-Coal Metalliferous Incidents by Incident Type 1999-00 to 2010-11

*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	2010-11	Total
*MIA	Dangerous Incident	-	4	37	66	73	70	88	63	39	4	-	-	444
	*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
	<b>Total</b>	<b>143</b>	<b>81</b>	<b>102</b>	<b>77</b>	<b>85</b>	<b>74</b>	<b>99</b>	<b>81</b>	<b>48</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>798</b>
Explosives	Explosives Regulation 2005	-	-	-	-	-	-	-	2	-	-	-	-	2
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>
MHS	MHSR 2007 CI 145	-	-	-	-	-	-	-	-	-	91	137	121	349
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	-	-	10	20	21	51
	MHSR 2007 CI 146(1)	-	-	-	-	-	-	-	-	-	-	1	-	1
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>101</b>	<b>158</b>	<b>142</b>
N/A	High Potential Incident	21	33	30	50	38	62	45	59	71	27	13	11	460
	Complaint	3	4	9	3	13	11	11	6	11	8	14	7	100
	UNKNOWN	10	1	-	2	-	-	-	-	-	-	-	-	13
	<b>Total</b>	<b>34</b>	<b>38</b>	<b>39</b>	<b>55</b>	<b>51</b>	<b>73</b>	<b>56</b>	<b>65</b>	<b>82</b>	<b>35</b>	<b>27</b>	<b>18</b>	<b>573</b>
<b>Total</b>	<b>177</b>	<b>119</b>	<b>141</b>	<b>132</b>	<b>136</b>	<b>147</b>	<b>155</b>	<b>148</b>	<b>130</b>	<b>144</b>	<b>185</b>	<b>160</b>	<b>1,774</b>	

*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

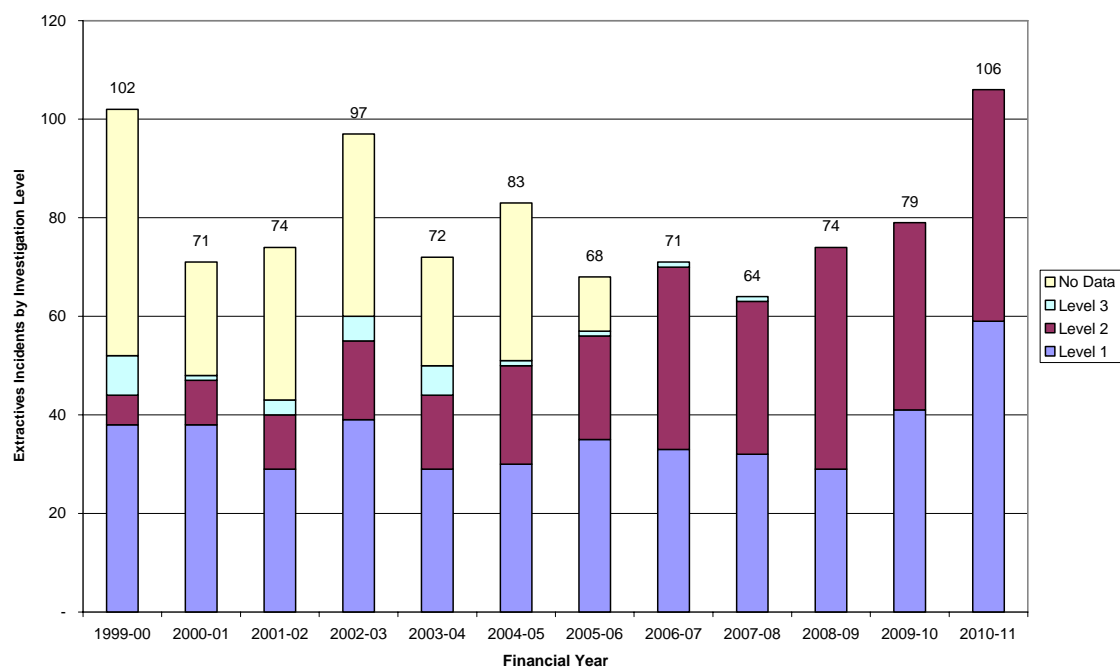
**Figure 34**

Non-Coal Extractives Incidents by Incident Investigation Level 1999-00 to 2010-11  
*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	2010-11	Total
Level 1 - No need to attend. Mine to investigate & report.	38	38	29	39	29	30	35	33	32	29	41	59	432
Level 2 - Official to attend mine.	6	9	11	16	15	20	21	37	31	45	38	47	296
Level 3 - Detailed investigation suitable for further action	8	1	3	5	6	1	1	1	1	-	-	-	27
No Data	50	23	31	37	22	32	11	-	-	-	-	-	206
<b>Total</b>	<b>102</b>	<b>71</b>	<b>74</b>	<b>97</b>	<b>72</b>	<b>83</b>	<b>68</b>	<b>71</b>	<b>64</b>	<b>74</b>	<b>79</b>	<b>106</b>	<b>961</b>

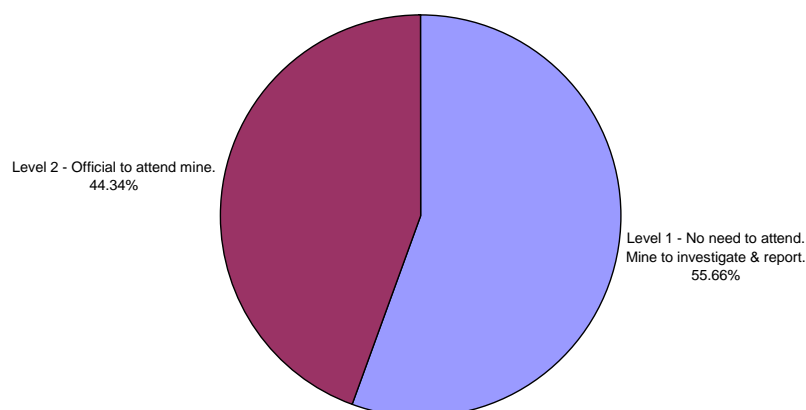
**Figure 35**

Non-Coal Extractives Incidents by Incident Investigation Level 1999-00 to 2010-11  
*NB Increase from Q2 2008-09 due to requirements of MHSR 2007*



**Figure 36**

Non-Coal Extractives Incidents by Incident Investigation Level 2010-11



### 3.3.6 Non-Coal Extractives Incidents by Event Subtype

**Figure 37**

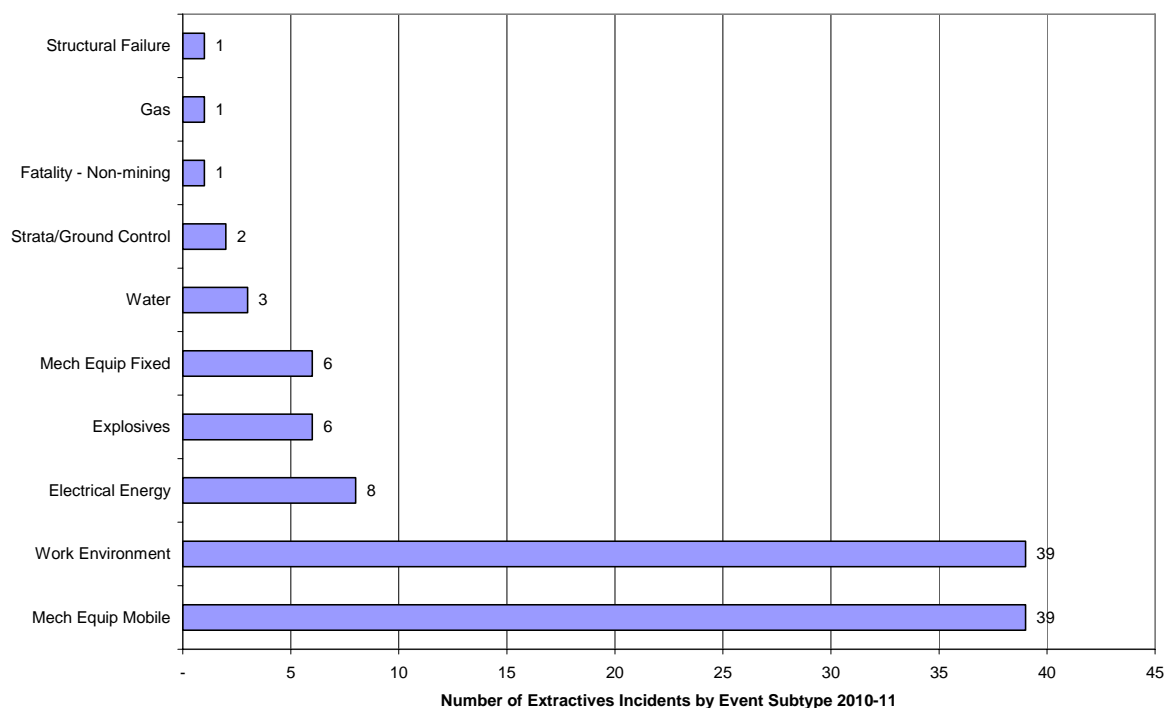
Non-Coal Extractives Incidents by Event Subtype 1999-00 to 2010-11

*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	2010-11	Total
Mech Equip Mobile	43	26	27	38	29	37	25	28	29	33	33	39	387
Work Environment	32	23	19	16	11	14	14	14	14	15	25	39	236
Explosives	11	9	13	18	9	16	17	16	5	7	2	6	129
Electrical Energy	2	4	2	15	12	10	7	8	8	10	13	8	99
Mech Equip Fixed	7	3	8	8	7	2	2	4	4	5	2	6	58
Strata/Ground Control	-	2	2	1	1	2	2	-	2	2	2	2	18
Hazardous Materials	6	1	-	-	1	1	-	-	1	1	-	-	11
Structural Failure	1	1	1	-	1	-	1	-	-	-	-	1	6
Water	-	1	1	-	-	-	-	-	-	-	-	1	3
Fatality - Non-mining	-	1	-	1	1	-	-	1	-	-	-	1	5
Dust	-	-	-	-	-	1	-	-	-	1	1	-	3
Gas	-	-	1	-	-	-	-	-	-	-	-	1	2
Self Heating	-	-	-	-	-	-	-	-	1	-	-	-	1
<b>Total</b>	<b>102</b>	<b>71</b>	<b>74</b>	<b>97</b>	<b>72</b>	<b>83</b>	<b>68</b>	<b>71</b>	<b>64</b>	<b>74</b>	<b>79</b>	<b>106</b>	<b>961</b>

**Figure 38**

Non-Coal Extractives Incidents by Event Subtype 2010-11



### 3.3.7 Non-Coal Extractives Incidents by Incident Type

**Figure 39**

Non-Coal Extractives Incidents by Incident Type 1999-00 to 2010-11

*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	2010-11	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	5	1	3	11	4	-	-	-	86
	*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
	<b>Total</b>		<b>82</b>	<b>28</b>	<b>27</b>	<b>38</b>	<b>31</b>	<b>25</b>	<b>25</b>	<b>29</b>	<b>22</b>	<b>2</b>	<b>-</b>	<b>-</b>
Explosives	Explosives Regulation 2005	-	-	-	-	-	-	1	1	-	-	-	-	2
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>
MHS	MHSR 2007 CI 145	-	-	-	-	-	-	-	-	-	37	41	57	135
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	-	-	7	10	22	39
	MHSR 2007 CI 146(1)	-	-	-	-	-	-	-	-	-	2	2	2	6
<b>Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>46</b>	<b>53</b>	<b>81</b>	<b>180</b>
N/A	High Potential Incident	12	33	26	40	30	40	29	27	33	15	8	11	304
	Complaint	3	10	21	16	11	18	13	14	9	11	18	14	158
	Unknown	5	-	-	3	-	-	-	-	-	-	-	-	8
	<b>Total</b>	<b>20</b>	<b>43</b>	<b>47</b>	<b>59</b>	<b>41</b>	<b>58</b>	<b>42</b>	<b>41</b>	<b>42</b>	<b>26</b>	<b>26</b>	<b>25</b>	<b>470</b>
<b>Total</b>	<b>102</b>	<b>71</b>	<b>74</b>	<b>97</b>	<b>72</b>	<b>83</b>	<b>68</b>	<b>71</b>	<b>64</b>	<b>74</b>	<b>79</b>	<b>106</b>	<b>961</b>	

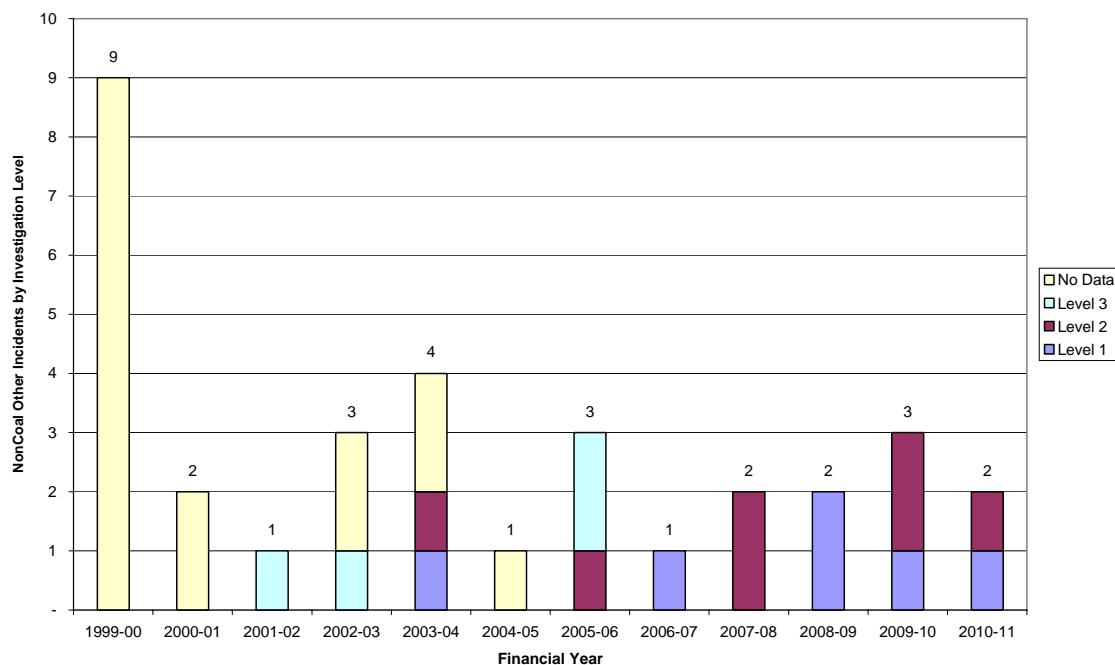
*Refer to Appendix A.1 for a more detailed breakdown of Non-Coal Extractives Surface and Underground Incidents by Incident Type and Subtype.*

### 3.3.8 Non-Coal Other Incidents by Incident Investigation Level

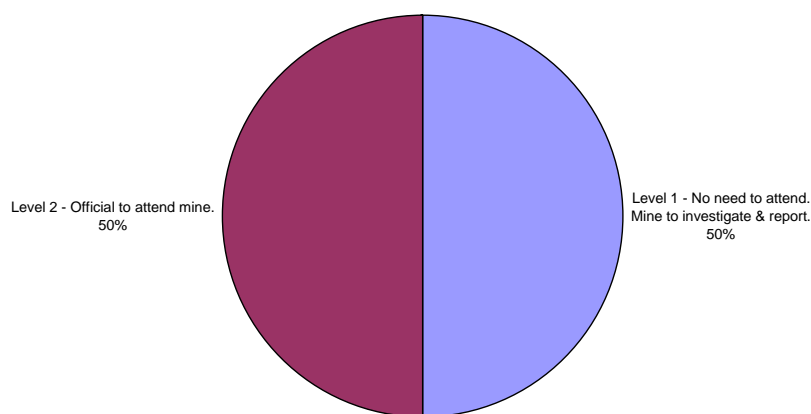
**Figure 40**  
 Non-Coal Other Incidents by Incident Investigation Level 1999-00 to 2010-11  
 NB MHSR 2007 commenced Q2 2008-09

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Level 1 - No need to attend. Mine to investigate & report.	-	-	-	-	1	-	-	1	-	2	1	1	6
Level 2 - Official to attend mine.	-	-	-	-	1	-	1	-	2	-	2	1	7
Level 3 - Detailed investigation suitable for further action	-	-	1	1	-	-	2	-	-	-	-	-	4
No Data	9	2	-	2	2	1	-	-	-	-	-	-	16
<b>Total</b>	<b>9</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>33</b>

**Figure 41**  
 Non-Coal Other Incidents by Incident Investigation Level 1999-00 to 2010-11  
 NB MHSR 2007 commenced Q2 2008-09



**Figure 42**  
 Non-Coal Other Incidents by Incident Investigation Level 2010-11



### 3.3.9 Non-Coal Other Incidents by Event Subtype

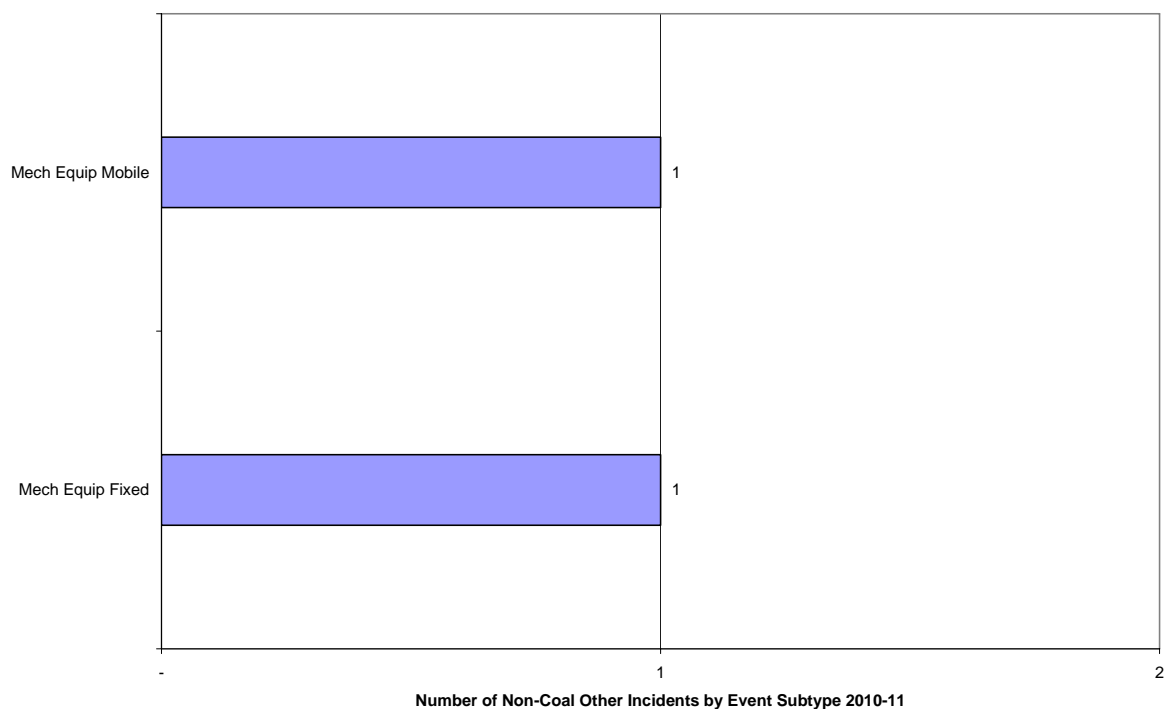
**Figure 43**

Non-Coal Other Incidents by Event Subtype 1999-00 to 2010-11  
*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	2010-11	Total
Work Environment	3	1	-	-	1	-	2	-	1	1	1	-	10
Mech Equip Mobile	1	1	1	1	2	-	-	1	-	-	-	1	8
Structural Failure	1	-	-	-	1	-	1	-	-	-	1	-	4
Explosives	3	-	-	-	-	-	-	-	-	-	-	-	3
Mech Equip Fixed	-	-	-	1	-	-	-	-	1	-	-	1	3
Strata/Ground Control	-	-	-	-	-	1	-	-	-	1	1	-	3
Fatality - Non-mining	1	-	-	-	-	-	-	-	-	-	-	-	1
Water	-	-	-	1	-	-	-	-	-	-	-	-	1
<b>Total</b>	<b>9</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>33</b>

**Figure 44**

Non-Coal Other Incidents by Event Subtype 2010-11





### 3.3.10 Non-Coal Other Incidents by Incident Type

**Figure 45**

Non-Coal Other Incidents by Incident Type 1999-00 to 2010-11

*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	2010-11	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
	<b>Total</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>17</b>
MHS	MHSR 2007 CI 145	-	-	-	-	-	-	-	-	-	1	1	1	3
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	-	-	1	1	-	2
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>5</b>
N/A	High Potential Incident	-	-	-	1	-	-	2	-	1	-	1	-	5
	Complaint	1	1	-	-	1	-	-	-	-	-	-	1	4
	Unknown	2	-	-	-	-	-	-	-	-	-	-	-	2
	<b>Total</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>11</b>
<b>Total</b>	<b>9</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>33</b>	

*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) Schedule 1992 and those recorded in the COMET database appear below. Several additional legacy databases are currently being researched and merged to produce a more comprehensive picture of safety in the onshore petroleum sector from next year, to coincide with expected new legislation.

#### 3.4.1 Petroleum (Onshore) Incidents by Incident Investigation Level

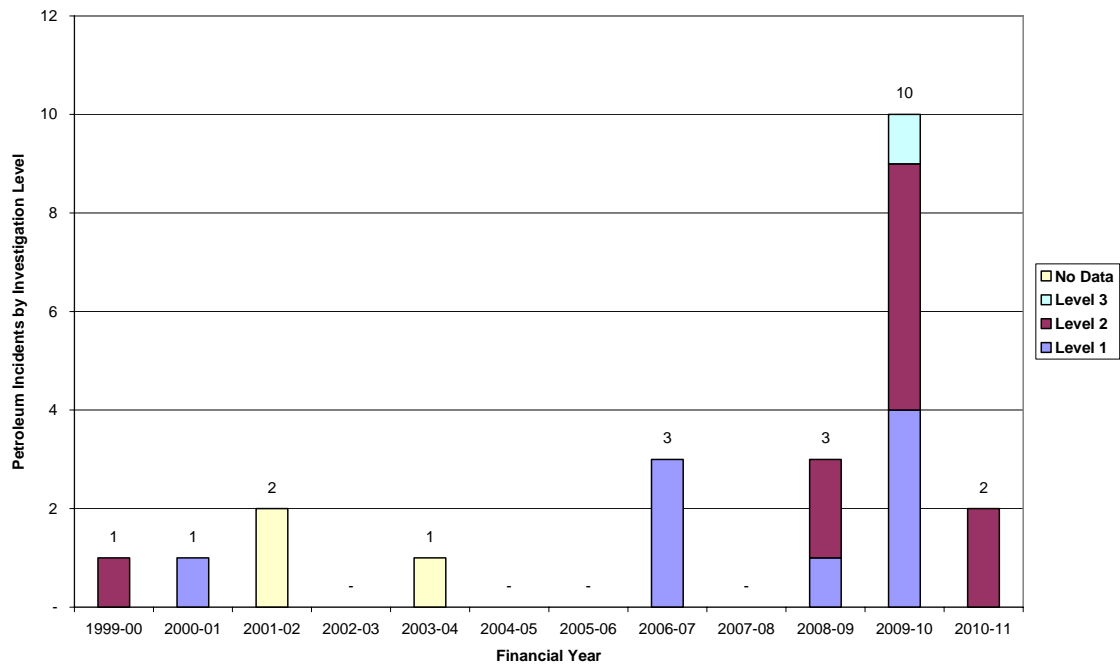
**Figure 46**

Petroleum (Onshore) Incidents by Incident Investigation Level 1999-00 to 2010-11

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	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	2	10
Level 3 - Detailed investigation suitable for further action	-	-	-	-	-	-	-	-	-	-	1	-	1
<b>Total</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>3</b>	<b>10</b>	<b>2</b>	<b>23</b>

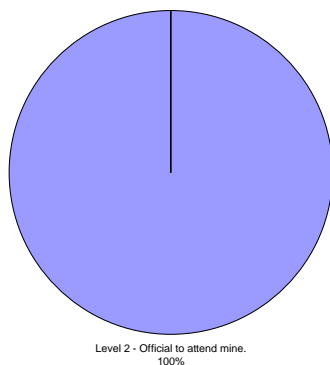
**Figure 47**

Petroleum (Onshore) Incidents by Incident Investigation Level 1999-00 to 2010-11



**Figure 48**

Petroleum (Onshore) Incidents by Incident Investigation Level 2010-11

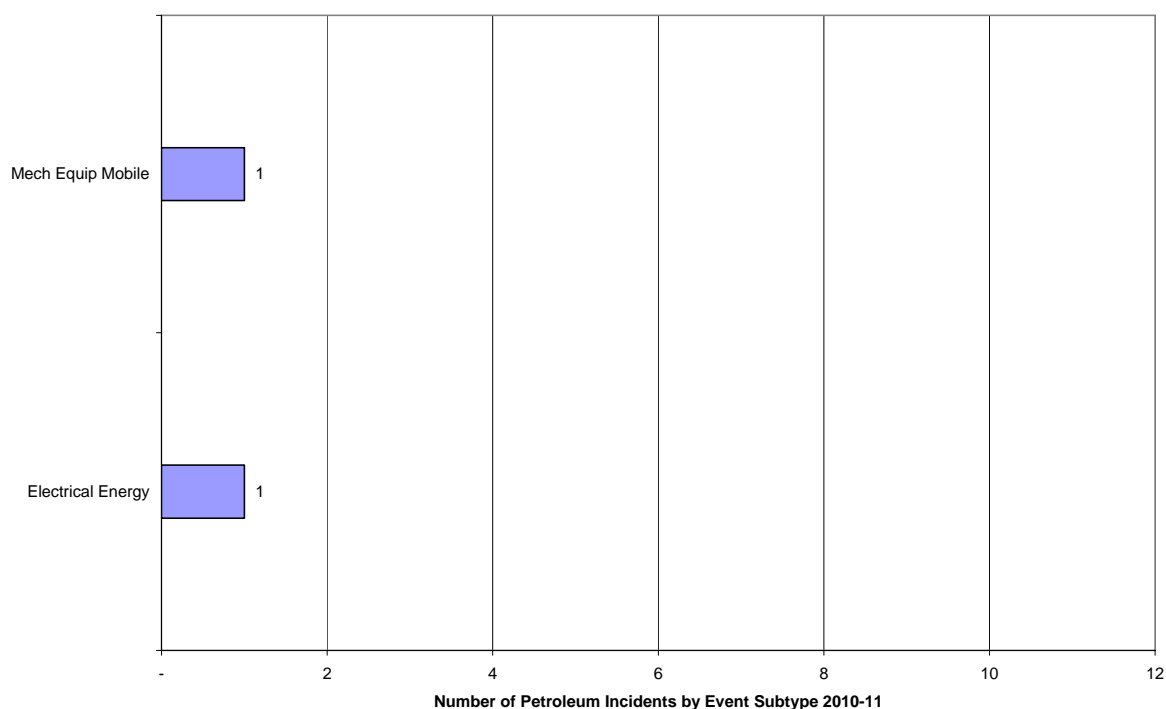


### 3.4.2 Petroleum (Onshore) Incidents by Event Subtype

**Figure 49**  
Petroleum Incidents by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Mech Equip Mobile	1	-	-	-	1	-	-	2	-	3	9	1	17
Work Environment	-	-	2	-	-	-	-	1	-	-	-	-	3
Electrical Energy	-	-	-	-	-	-	-	-	-	-	-	1	1
Gas	-	1	-	-	-	-	-	-	-	-	-	-	1
Mech Equip Fixed	-	-	-	-	-	-	-	-	-	-	1	-	1
<b>Total</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>3</b>	<b>10</b>	<b>2</b>	<b>23</b>

**Figure 50**  
Petroleum Incidents by Event Subtype 2010-11



### 3.4.3 Petroleum (Onshore) Incidents by Incident Type

**Figure 51**  
Petroleum (Onshore) Incidents by Incident Type 1999-00 to 2010-11

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	2010-11	Total
POSch	POSch 1992	1	1	2	-	1	-	-	3	-	3	10	2	23
<b>Total</b>		<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>3</b>	<b>10</b>	<b>2</b>	<b>23</b>

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

### 3.5 High Potential Incidents

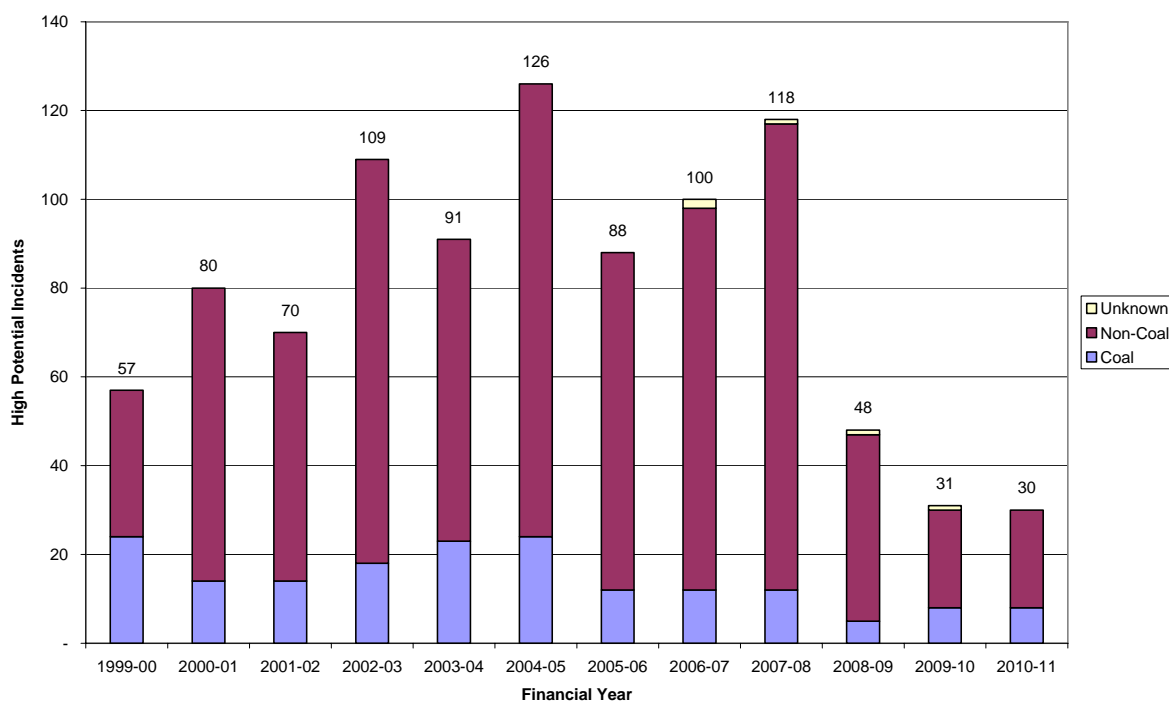
This section provides a breakdown of near misses and other events which may have had the potential to cause damage or injury and were notified to NSW Trade & Investment, but where the relevant legislation did not require their notification.

#### 3.5.1 High Potential Incidents by Sector

**Figure 52**  
High Potential Incidents by Sector 1999-2000 to 2010-11  
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	2010-11	Total
Non-Coal	33	66	56	91	68	102	76	86	105	42	22	22	769
Coal	24	14	14	18	23	24	12	12	12	5	8	8	174
Unknown	-	-	-	-	-	-	-	2	1	1	1	-	5
<b>Total</b>	<b>57</b>	<b>80</b>	<b>70</b>	<b>109</b>	<b>91</b>	<b>126</b>	<b>88</b>	<b>100</b>	<b>118</b>	<b>48</b>	<b>31</b>	<b>30</b>	<b>948</b>

**Figure 53**  
High Potential Incidents by Sector 1999-2000 to 2010-11  
NB "Unknown" refers to incidents reported by non-mine organisations

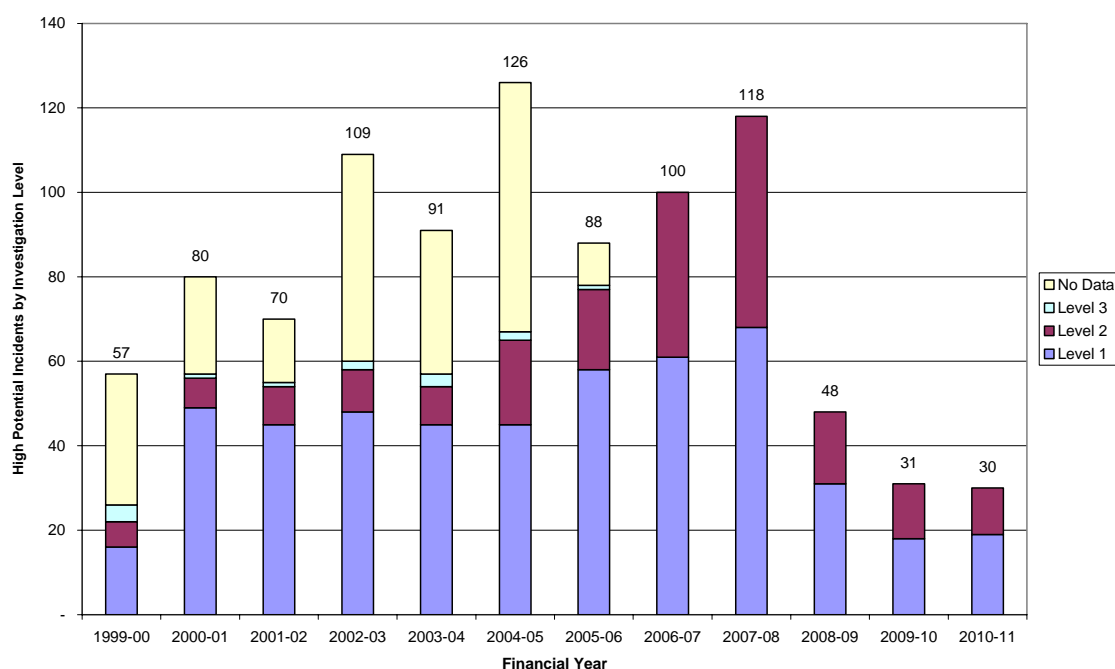


### 3.5.2 High Potential Incidents by Incident Investigation Level

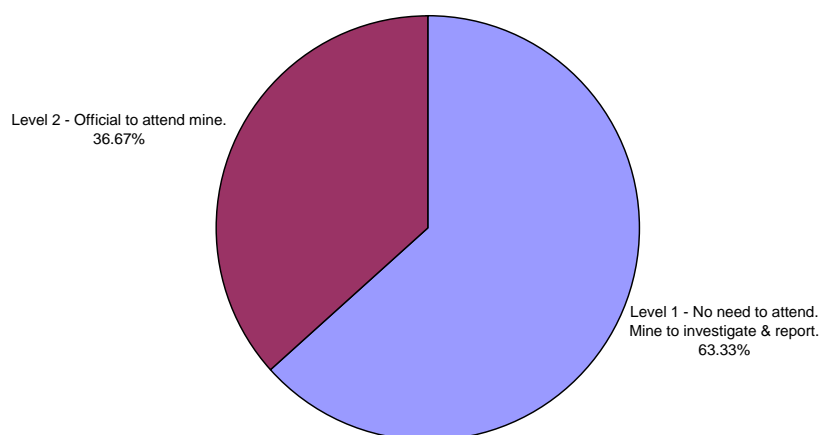
**Figure 54**  
High Potential Incidents by Incident Investigation Level 1999-00 to 2010-11

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Level 1 - No need to attend. Mine to investigate & report.	16	49	45	48	45	45	58	61	68	31	18	19	503
Level 2 - Official to attend mine.	6	7	9	10	9	20	19	39	50	17	13	11	210
Level 3 - Detailed investigation suitable for further action	4	1	1	2	3	2	1	-	-	-	-	-	14
No Data	31	23	15	49	34	59	10	-	-	-	-	-	221
<b>Total</b>	<b>57</b>	<b>80</b>	<b>70</b>	<b>109</b>	<b>91</b>	<b>126</b>	<b>88</b>	<b>100</b>	<b>118</b>	<b>48</b>	<b>31</b>	<b>30</b>	<b>948</b>

**Figure 55**  
High Potential Incidents by Incident Investigation Level 1999-00 to 2010-11



**Figure 56**  
High Potential Incidents by Incident Investigation Level 2010-11

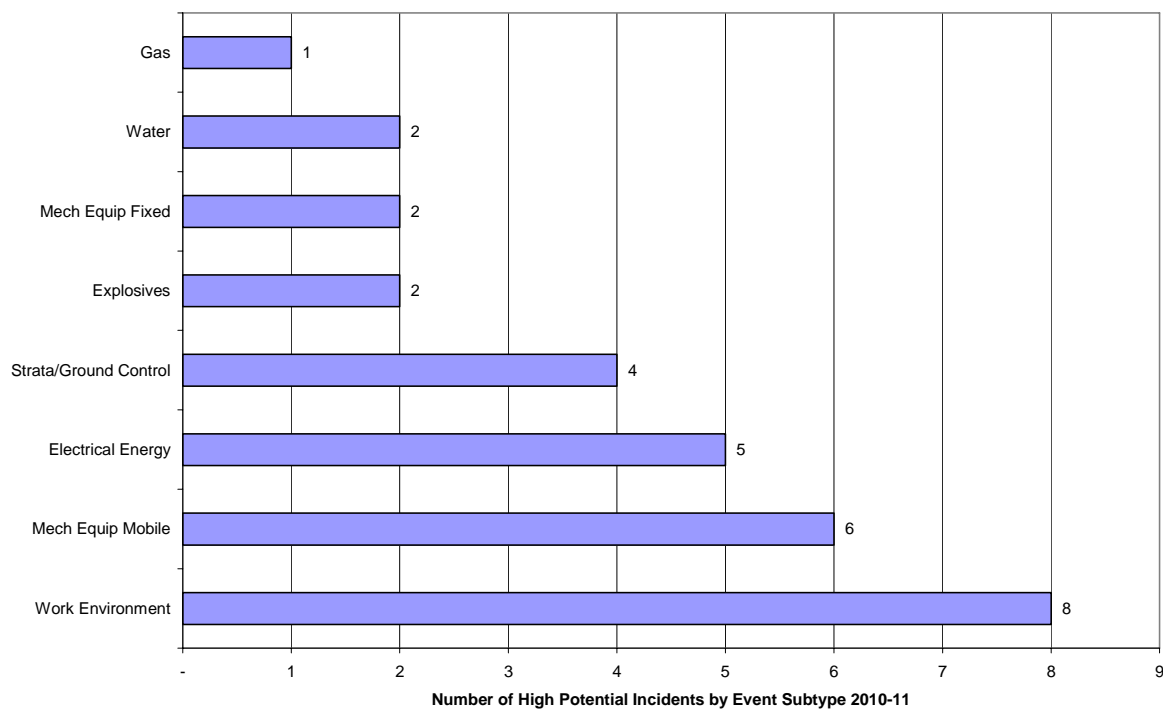


### 3.5.3 High Potential Incidents by Event Subtype

**Figure 57**  
High Potential Incidents by Event Subtype 1999-2000 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Work Environment	3	11	5	9	7	12	6	11	19	4	10	8	105
Mech Equip Mobile	27	31	28	43	38	68	46	53	52	24	10	6	426
Electrical Energy	11	14	13	12	19	11	12	17	16	7	2	5	139
Strata/Ground Control	-	5	3	13	4	12	8	4	9	4	4	4	70
Explosives	4	6	7	10	5	11	7	8	5	2	1	2	68
Mech Equip Fixed	4	7	5	11	12	6	4	3	10	3	-	2	67
Water	-	1	1	3	1	1	1	1	1	-	-	2	12
Gas	-	-	2	2	3	1	1	1	4	-	1	1	16
Dust	2	1	1	2	1	1	-	-	-	1	1	-	10
Hazardous Materials	5	3	2	2	-	1	1	1	-	-	2	-	17
Self Heating	-	-	1	-	1	-	-	1	1	2	-	-	6
Structural Failure	1	1	2	2	-	2	2	-	1	1	-	-	12
<b>Total</b>	<b>57</b>	<b>80</b>	<b>70</b>	<b>109</b>	<b>91</b>	<b>126</b>	<b>88</b>	<b>100</b>	<b>118</b>	<b>48</b>	<b>31</b>	<b>30</b>	<b>948</b>

**Figure 58**  
High Potential Incidents by Event Subtype 2010-11



### 3.6 Complaint Incidents

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

#### 3.6.1 Complaint Incidents by Sector

**Figure 59**

Complaint Incidents by Sector 1999-00 to 2010-11

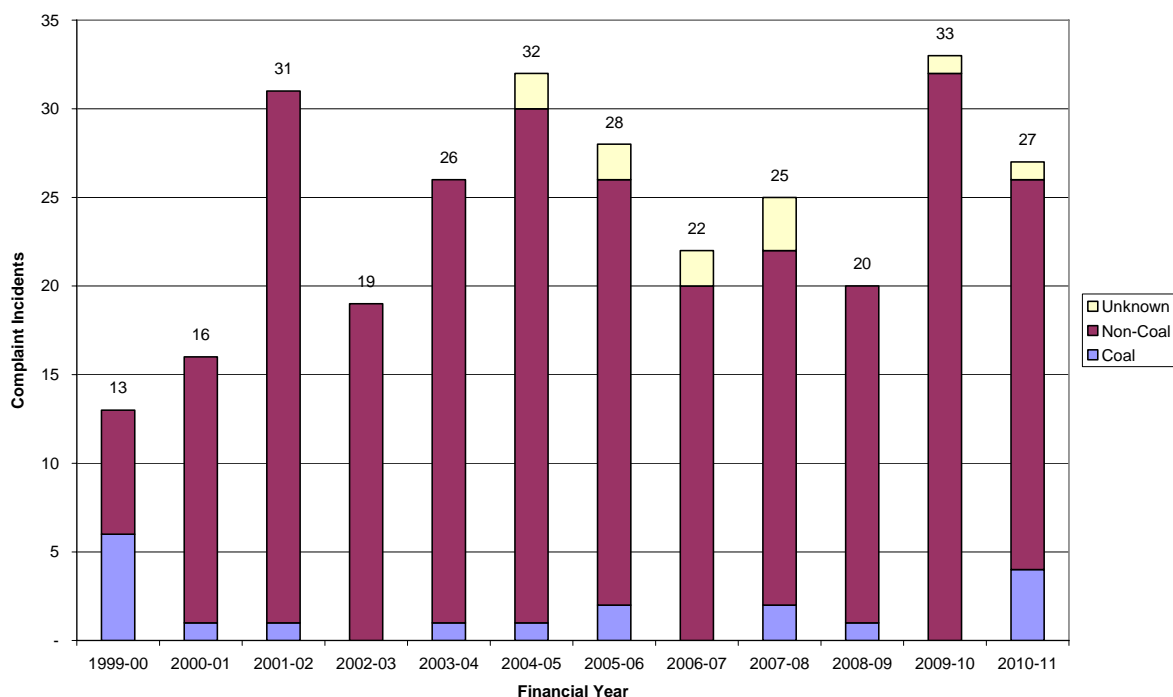
NB "Unknown" refers to incidents reported by non-mine organisations

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Non-Coal	7	15	30	19	25	29	24	20	20	19	32	22	262
Coal	6	1	1	-	1	1	2	-	2	1	-	4	19
Unknown	-	-	-	-	-	2	2	2	3	-	1	1	11
<b>Total</b>	<b>13</b>	<b>16</b>	<b>31</b>	<b>19</b>	<b>26</b>	<b>32</b>	<b>28</b>	<b>22</b>	<b>25</b>	<b>20</b>	<b>33</b>	<b>27</b>	<b>292</b>

**Figure 60**

Complaint Incidents by Sector 1999-00 to 2010-11

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



### 3.6.2 Complaint Incidents by Incident Investigation Level

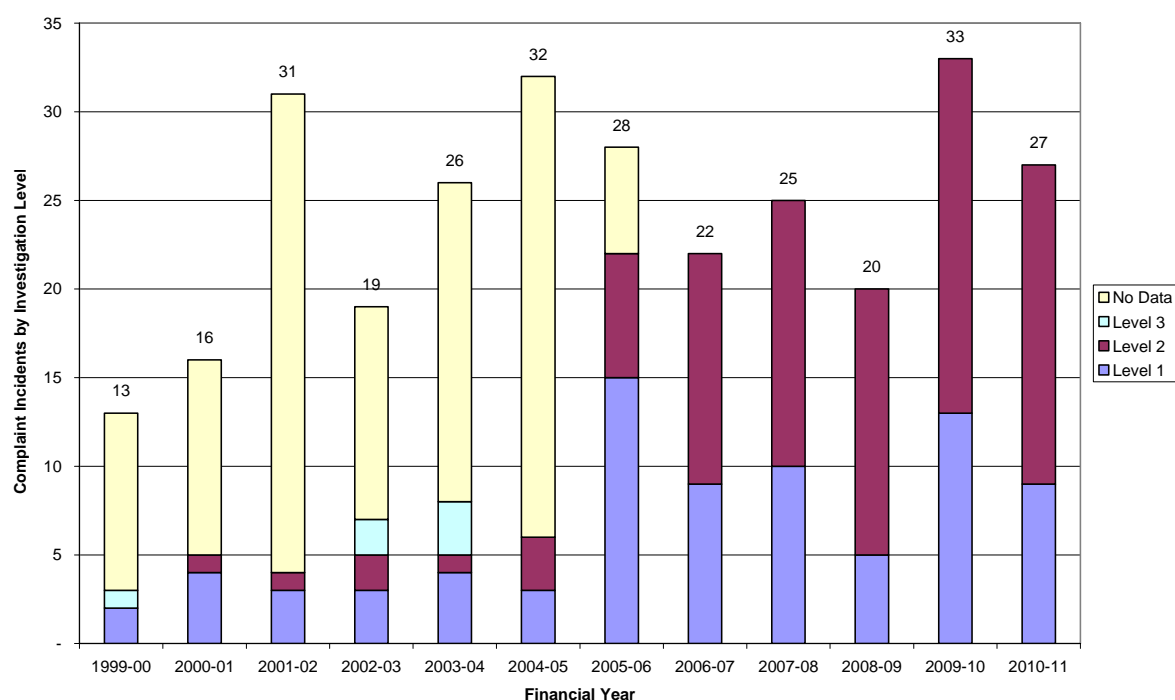
**Figure 61**

Complaint Incidents by Incident Investigation Level 1999-00 to 2010-11

Investigation Level	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Level 1 - No need to attend. Mine to investigate & report.	2	4	3	3	4	3	15	9	10	5	13	9	80
Level 2 - Official to attend mine.	-	1	1	2	1	3	7	13	15	15	20	18	96
Level 3 - Detailed investigation suitable for further action	1	-	-	2	3	-	-	-	-	-	-	-	6
No Data	10	11	27	12	18	26	6	-	-	-	-	-	110
<b>Total</b>	<b>13</b>	<b>16</b>	<b>31</b>	<b>19</b>	<b>26</b>	<b>32</b>	<b>28</b>	<b>22</b>	<b>25</b>	<b>20</b>	<b>33</b>	<b>27</b>	<b>292</b>

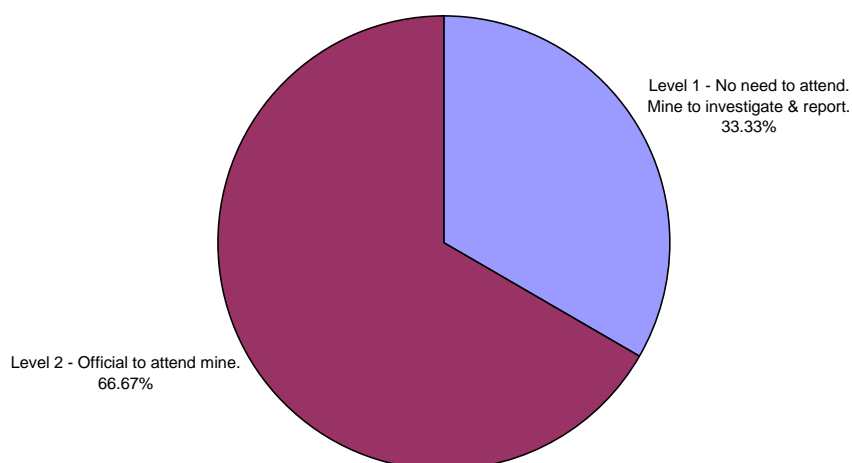
**Figure 62**

Complaint Incidents by Incident Investigation Level 1999-00 to 2010-11



**Figure 63**

Complaint Incidents by Incident Investigation Level 2010-11



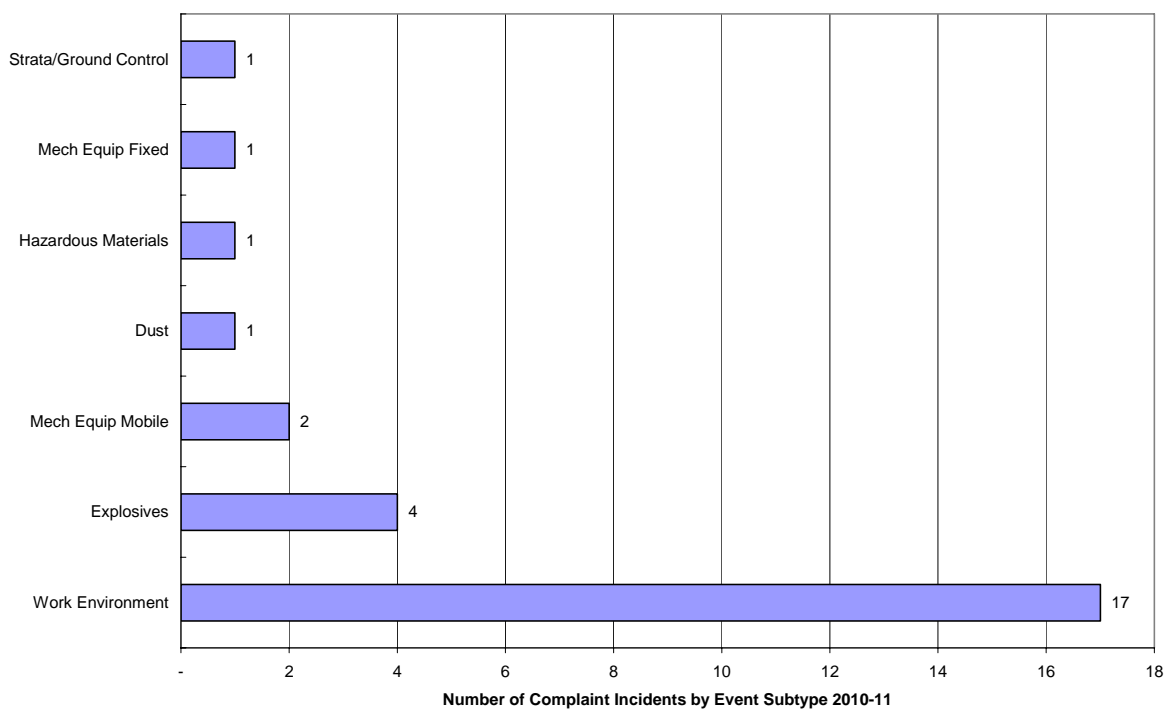


### 3.6.3 Complaint Incidents by Event Subtype

**Figure 64**  
Complaint Incidents by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Work Environment	5	11	19	10	16	22	19	17	15	11	26	17	188
Explosives	3	1	6	6	2	5	3	5	2	4	2	4	43
Mech Equip Mobile	2	3	2	1	7	3	3	-	5	3	1	2	32
Dust	-	-	1	-	-	-	-	-	-	1	2	1	5
Hazardous Materials	-	-	1	-	-	-	-	-	1	-	-	1	3
Mech Equip Fixed	-	-	1	-	-	1	-	-	-	-	-	1	3
Strata/Ground Control	1	-	-	-	1	-	1	-	1	1	1	1	7
Electrical Energy	2	-	1	-	-	-	-	-	-	-	1	-	4
Gas	-	-	-	-	-	1	-	-	1	-	-	-	2
Structural Failure	-	-	-	1	-	-	2	-	-	-	-	-	3
Water	-	1	-	1	-	-	-	-	-	-	-	-	2
<b>Total</b>	<b>13</b>	<b>16</b>	<b>31</b>	<b>19</b>	<b>26</b>	<b>32</b>	<b>28</b>	<b>22</b>	<b>25</b>	<b>20</b>	<b>33</b>	<b>27</b>	<b>292</b>

**Figure 65**  
Complaint Incidents by Event Subtype 2010-11



## 4 INJURIES

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

It includes annual frequency rates for fatalities, lost time injuries and serious bodily injuries. Corresponding five year average frequency rates are reported in the Executive Summary (Figures 1, 2 and 3).

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

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

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

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

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

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

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

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

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

## **4.1 Hours Worked**

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

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

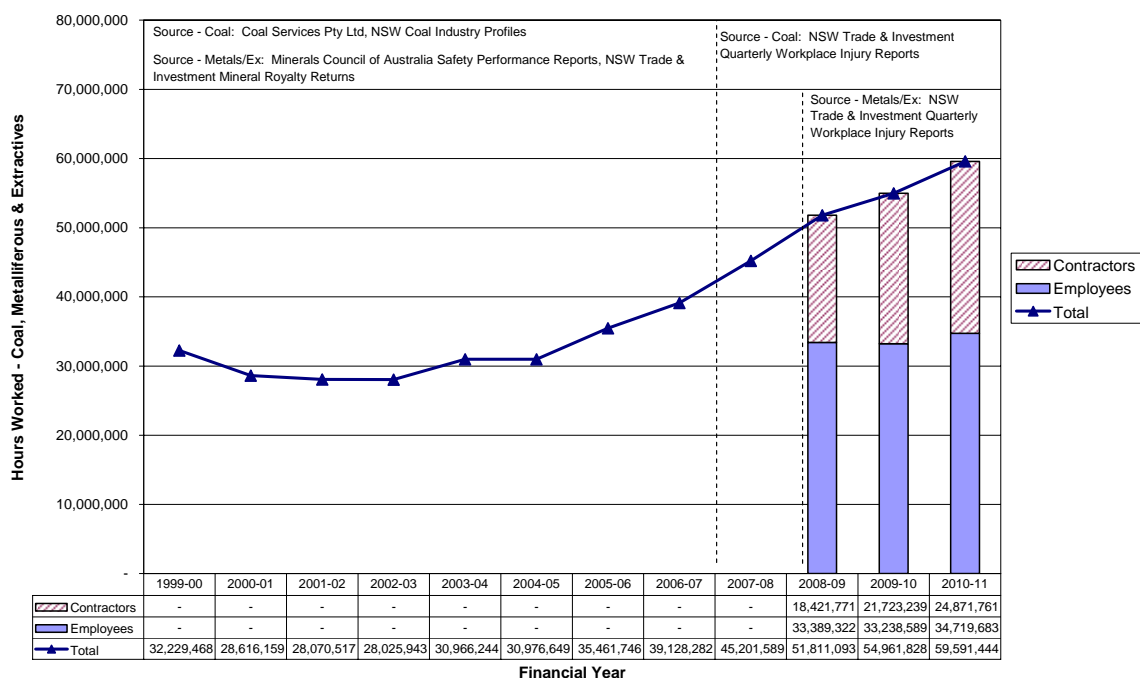
From 2009-10 to 2010-11:

- Coal sector hours worked rose by 7.8% and have more than doubled since 2004-05.
- Coal Underground hours worked fell by 4.4%.
- Coal Surface hours worked rose by 18.2%.
- Metalliferous sector hours worked rose by 13.3%.
- Extractives sector hours worked rose by 1.6%.
- For the combined Metalliferous and Extractives sector, hours worked rose by 10.1%.

## 4.1.1 Coal, Metalliferous and Extractives Hours Worked

Figure 66

NSW Coal, Metalliferous and Extractives Total Hours Worked 1999-00 to 2010-11

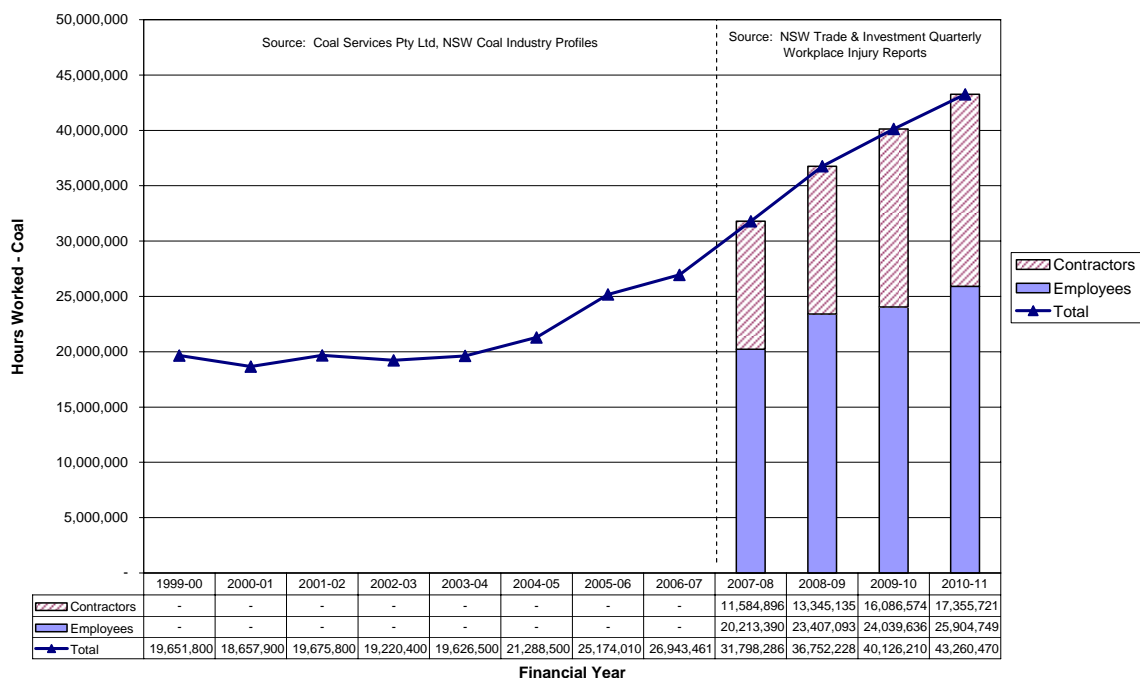


Refer to Appendix A.2 for details of Surface and Underground Hours Worked and Appendix B.9 for Sources of Data.

## 4.1.2 Coal Hours Worked

Figure 67

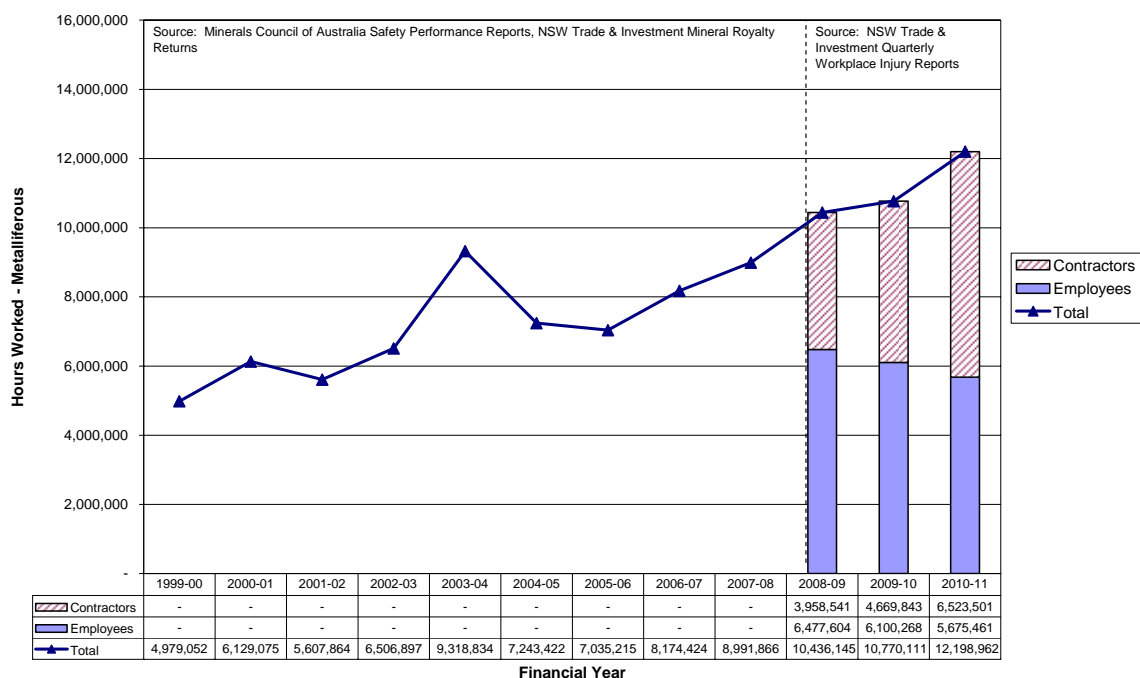
NSW Coal Total Hours Worked 1999-00 to 2010-11



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

### 4.1.3 Metalliferous Hours Worked

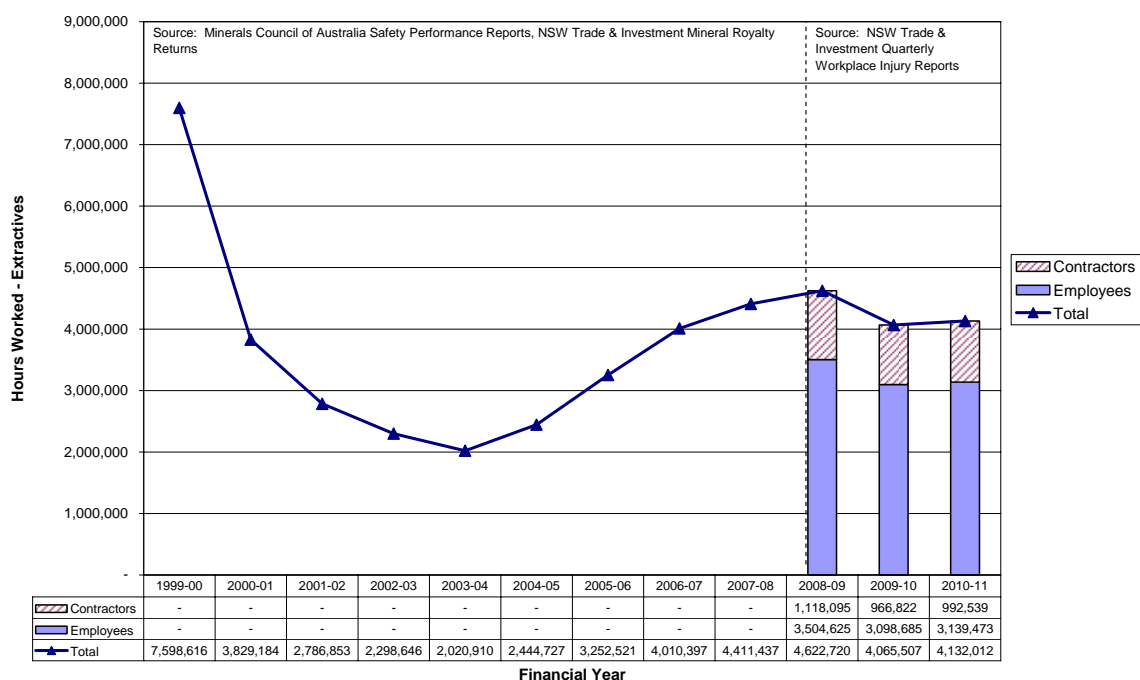
**Figure 68**  
NSW Metalliferous Total Hours Worked 1999-00 to 2010-11



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

### 4.1.4 Extractives Hours Worked

**Figure 69**  
NSW Extractives Total Hours Worked 1999-00 to 2010-11



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

## 4.2 Fatalities

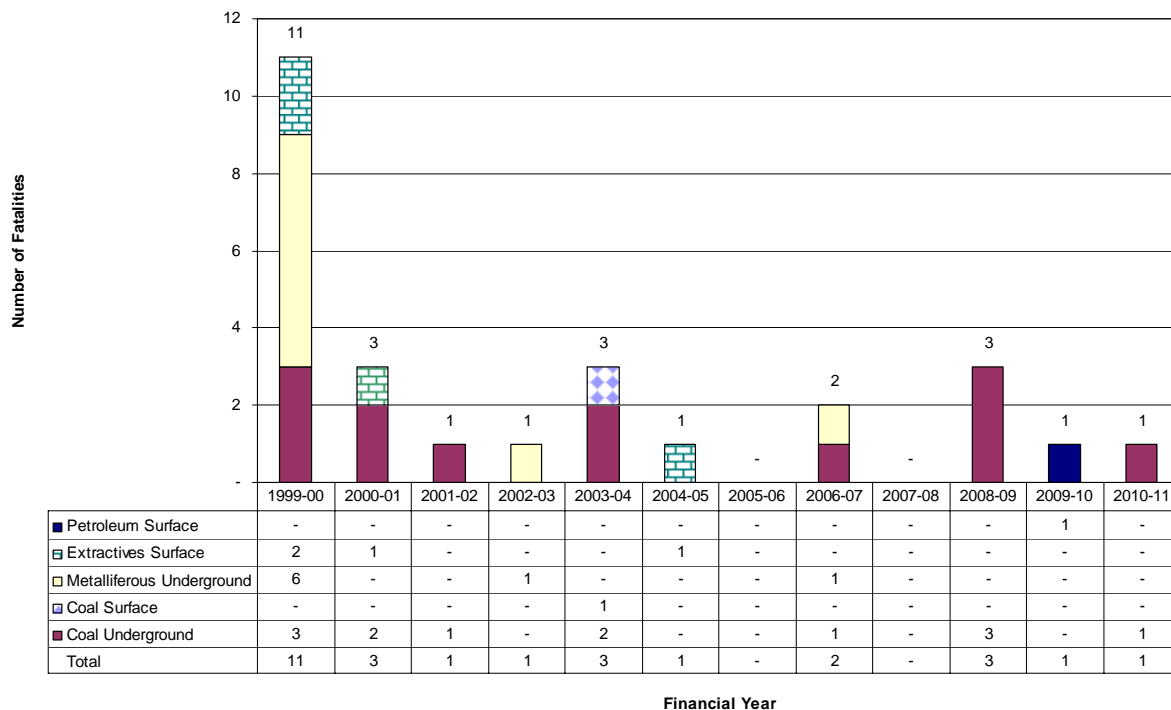
This section provides a breakdown of fatalities in the NSW Mining and Extractives industry.

- While the Metalliferous, Extractives and Petroleum (Onshore) sectors were fatality free in 2010-11, there was one fatality in the Coal sector.
  - 3 June 2011 - Underground coal mine worker received fatal crush injuries when coal fell on him from the side of a pillar during continuous mining operations.
- There were seven fatalities in the NSW Mining and Extractives industry in the five years to June 2011, compared to six (6) and 25 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 five fatalities in the past five years, compared to four in the previous five years.
- The Coal surface sector was fatality free for the seventh consecutive year and for the eleventh time in twelve years.
- The Metalliferous surface sector has been fatality free for seventeen years.
- The Metalliferous underground sector was fatality free for the fourth consecutive year and for the ninth time in eleven years. There was one fatality in each of the past two five year periods.
- The Extractives sector was fatality free for the sixth consecutive year and for the ninth time in ten years. There were zero fatalities in the past five years, and one 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

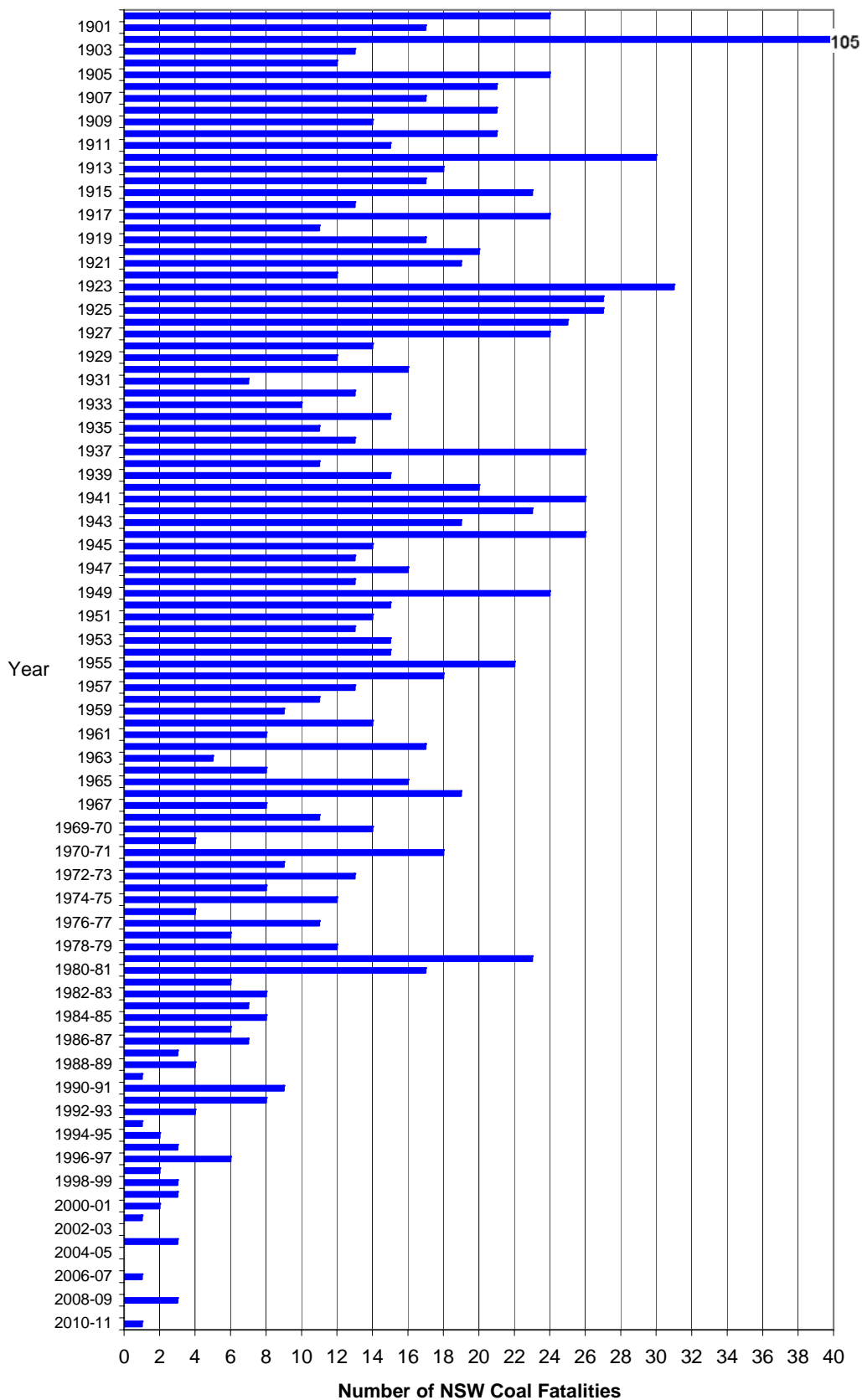
**Figure 70**  
NSW Coal, Metalliferous & Extractives and Petroleum Fatalities by Sector 1999-99 to 2010-11



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

## 4.2.2 Coal Fatalities since 1900

**Figure 71**  
NSW Coal Annual Fatalities 1900 to 2010-11

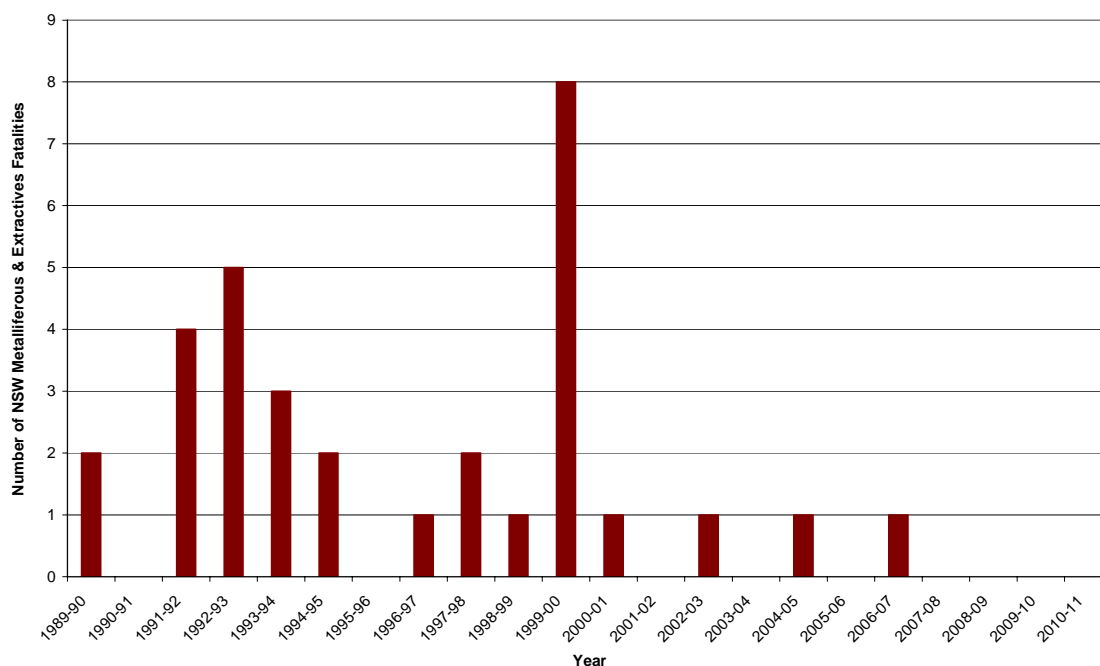




### 4.2.3 Non-Coal Metalliferous & Extractives Fatalities since 1989-90

**Figure 72**

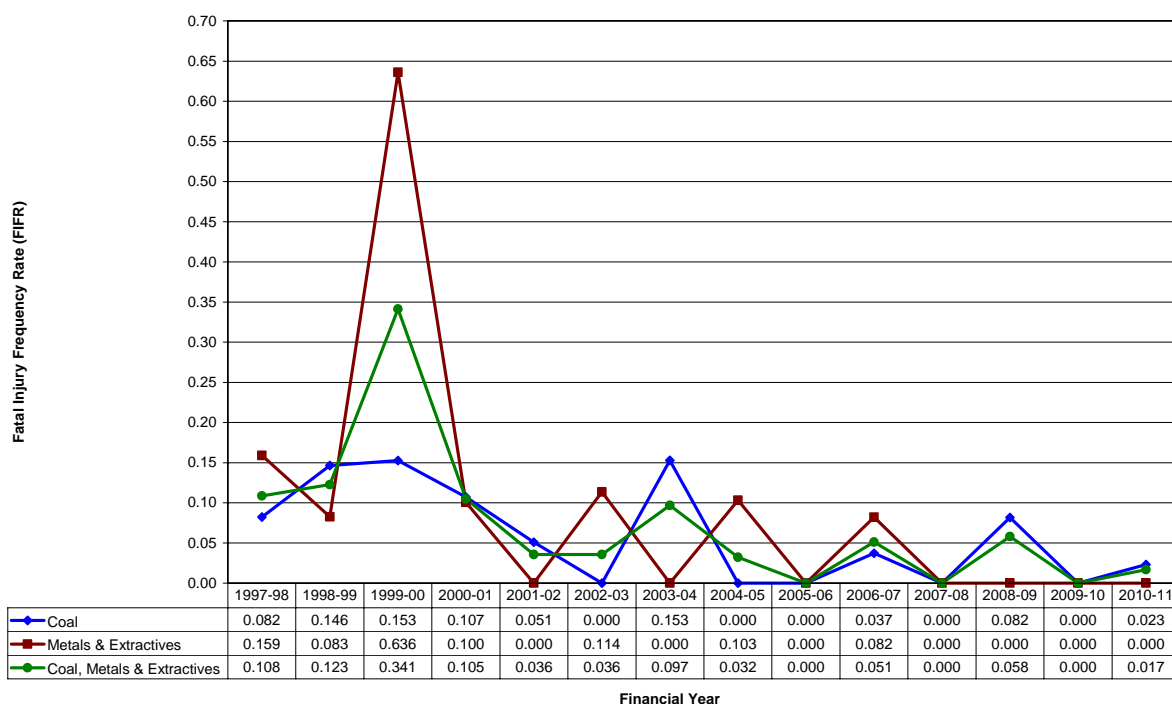
NSW Non-Coal Metalliferous & Extractives Annual Fatalities 1989-90 to 2010-11



### 4.2.4 Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2010-11

**Figure 73**

NSW Coal, Metalliferous & Extractives Mining Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2010-11

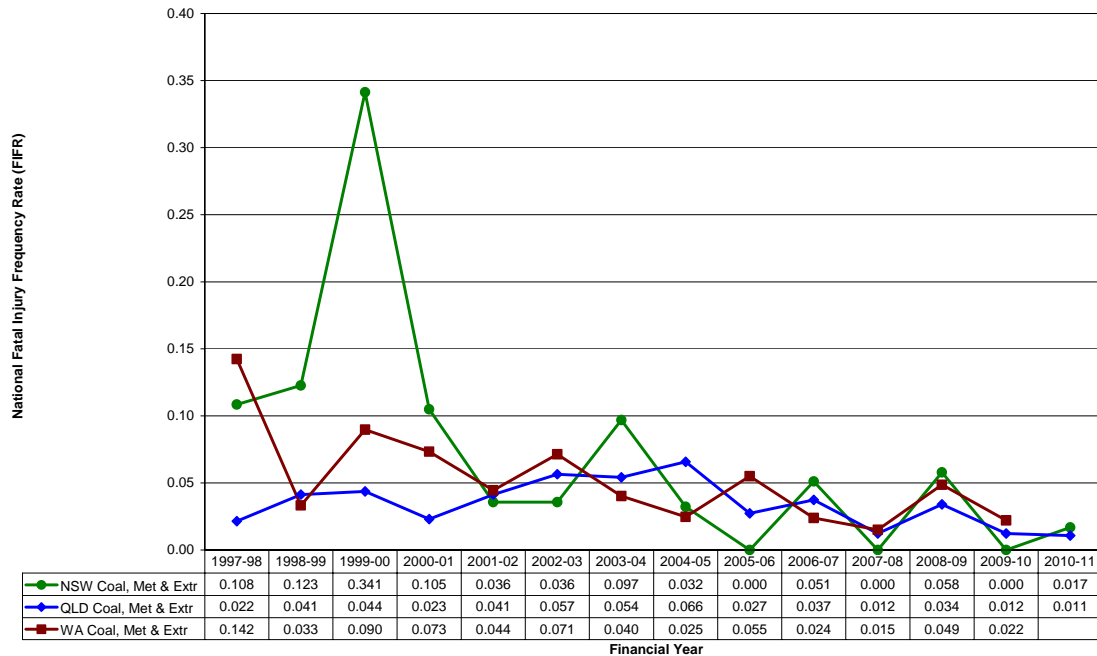


Refer to Figure 1 for Five Year Average Fatal Injury Frequency Rate 1997-98 to 2010-11

## 4.2.5 Annual Fatal Injury Frequency Rate (FIFR) National Comparison 1997-98 to 2010-11

**Figure 74**

NSW, QLD and WA Coal, Metalliferous & Extractives Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2010-11

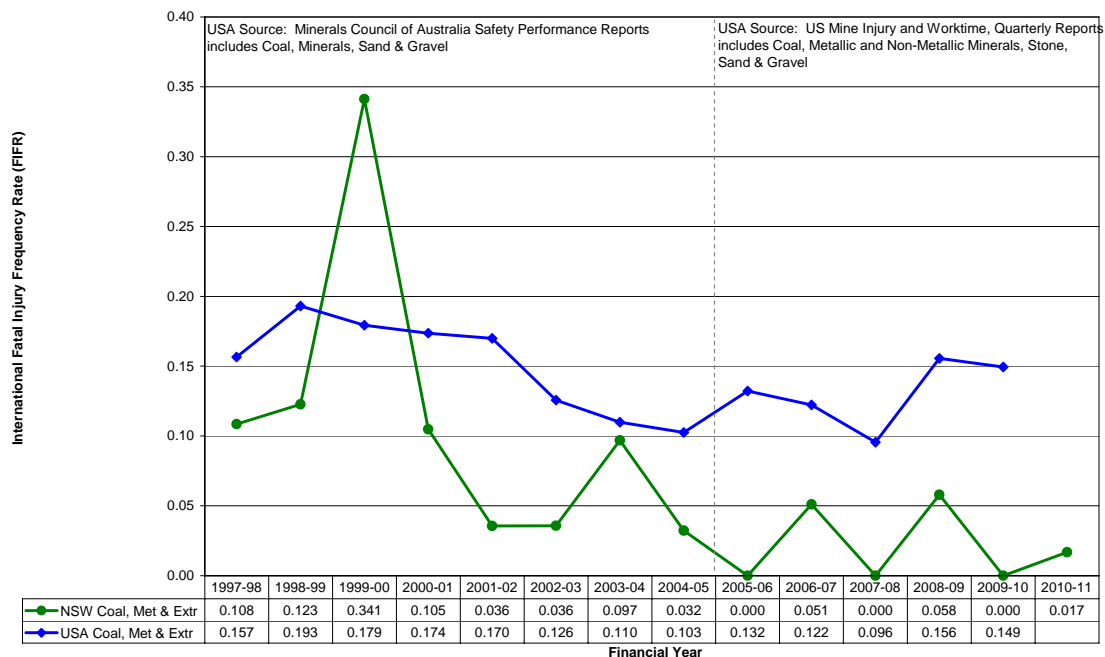


Refer to Appendix B.9 for Sources of Data

## 4.2.6 Annual Fatal Injury Frequency Rate (FIFR) International Comparison 1997-98 to 2010-11

**Figure 75**

NSW and USA Coal, Metalliferous & Extractives Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2010-11



Refer to Appendix B.9 for Sources of Data

### 4.3 Lost Time Injuries (LTIs)

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

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

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

In 2010-11:

- Over two thirds of all LTIs occurred at underground operations.
- The Coal LTIFR of 5.83 was 36.2% below the five year average of 9.14.
- The Coal, Metalliferous & Extractives LTIFR of 5.45 was 32.5% below the five year average of 8.07.
- The Metalliferous & Extractives sector LTIFR of 4.47 was 19.7% below the five year average of 5.57

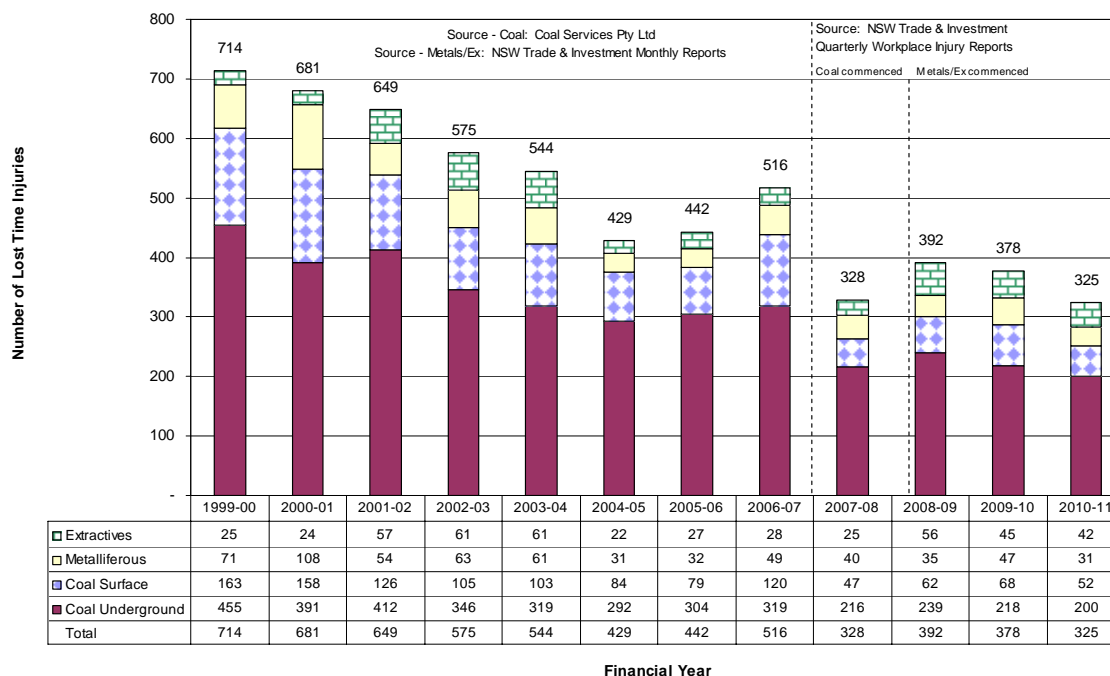
From 2009-10 to 2010-11:

- The number of Coal sector LTIs fell by 11.9% from 286 to 252
- The NSW Coal sector LTIFR fell by 18.2% from 7.13 to 5.83.
- The number of LTIs in the Metalliferous & Extractives sector decreased by 20.7% from 92 to 73, and the LTIFR fell by 27.9% to a record low of 4.47
- The number of Metalliferous LTIs fell 34% to their lowest level in 6 years, while Extractives LTIs fell 6.7%.

*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

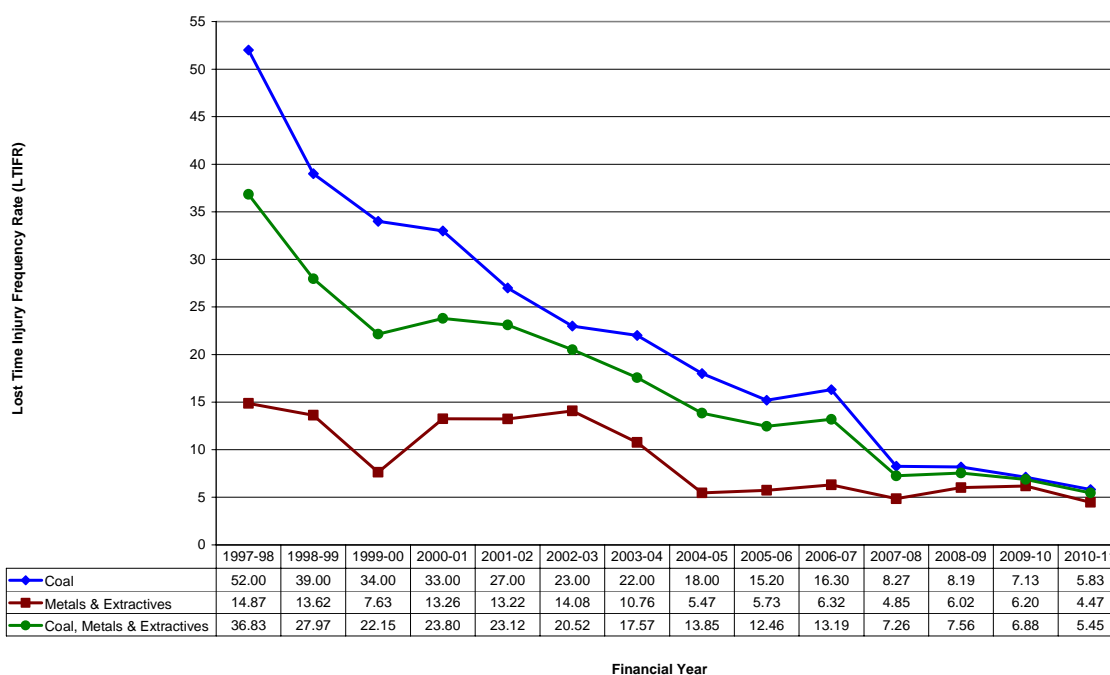
**Figure 76**  
NSW Coal, Metalliferous & Extractives Lost Time Injuries by Sector 1999-00 to 2010-11



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

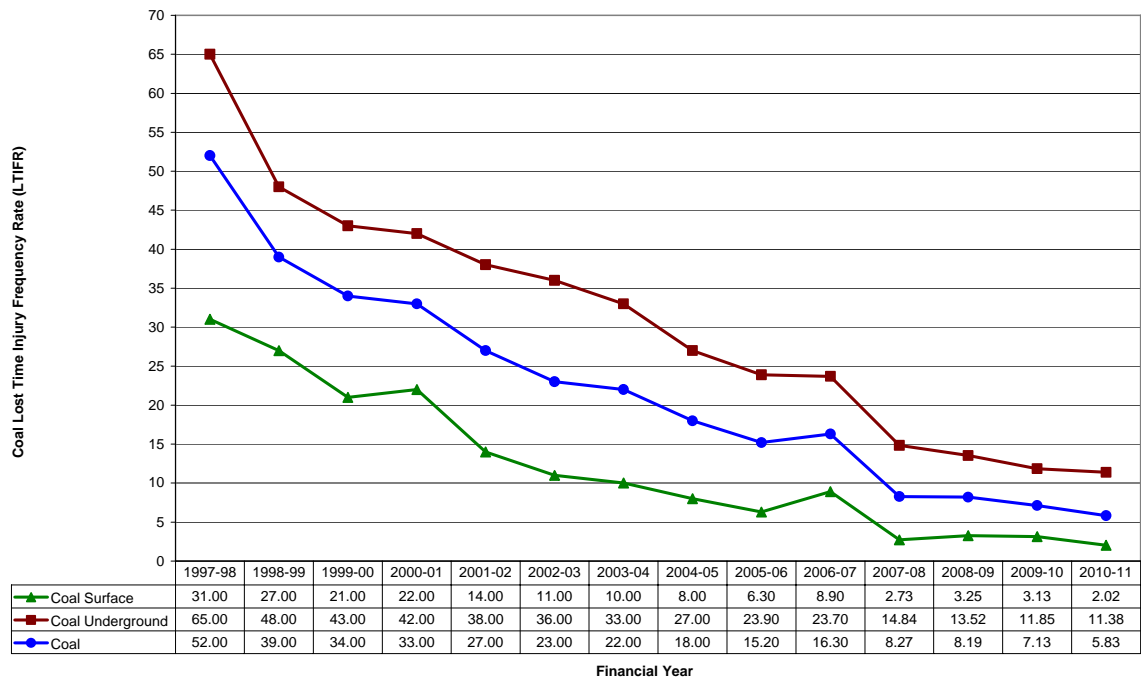
### 4.3.2 Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11

**Figure 77**  
NSW Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11

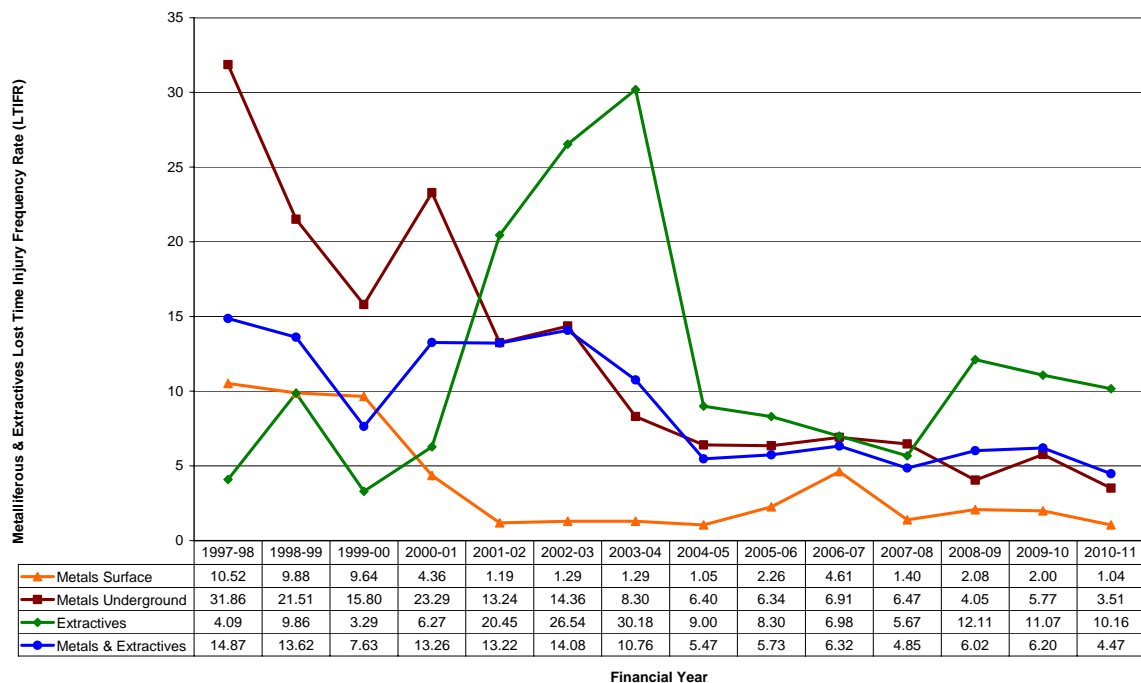


Refer to Figure 2 for Five Year Average Lost Time Injury Frequency Rate 1997-98 to 2010-11

**Figure 78**  
NSW Coal Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11



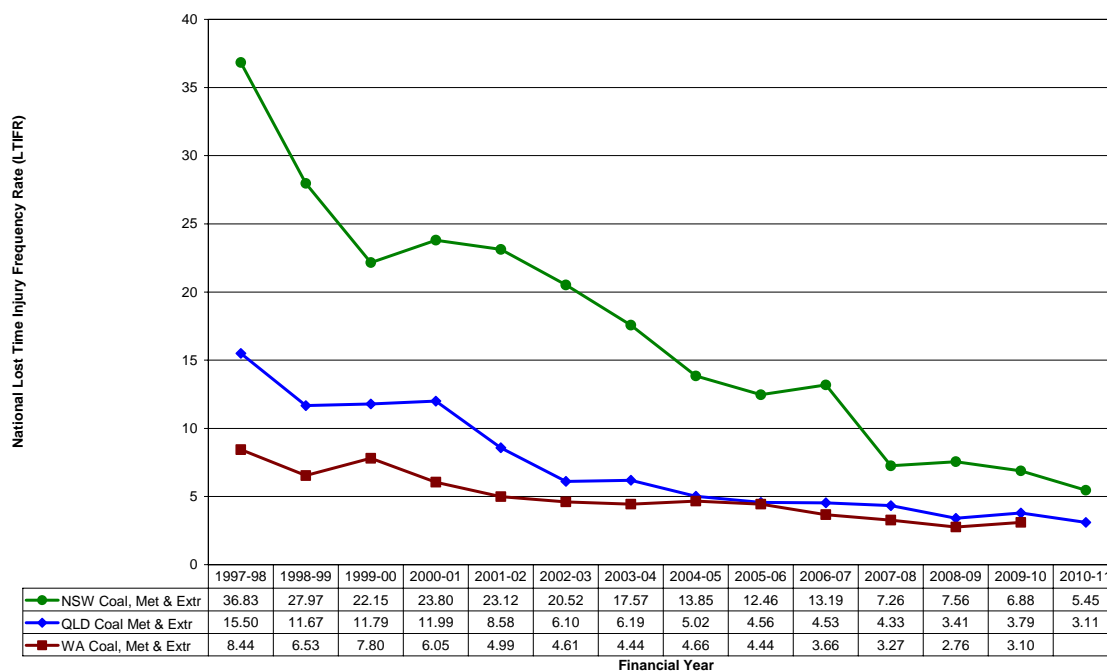
**Figure 79**  
NSW Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11



### 4.3.3 Annual Lost Time Injury Frequency Rate (LTIFR) National Comparison 1997-98 to 2010-11

**Figure 80**

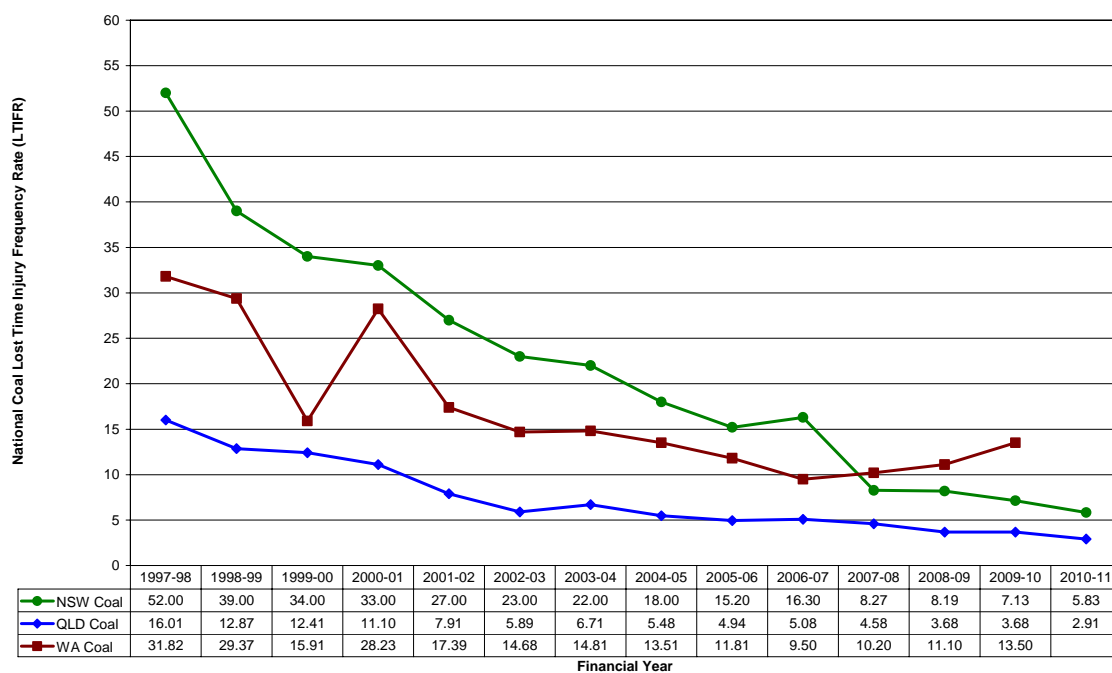
NSW, QLD and WA Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11



Refer to Appendix B.9 for Sources of Data

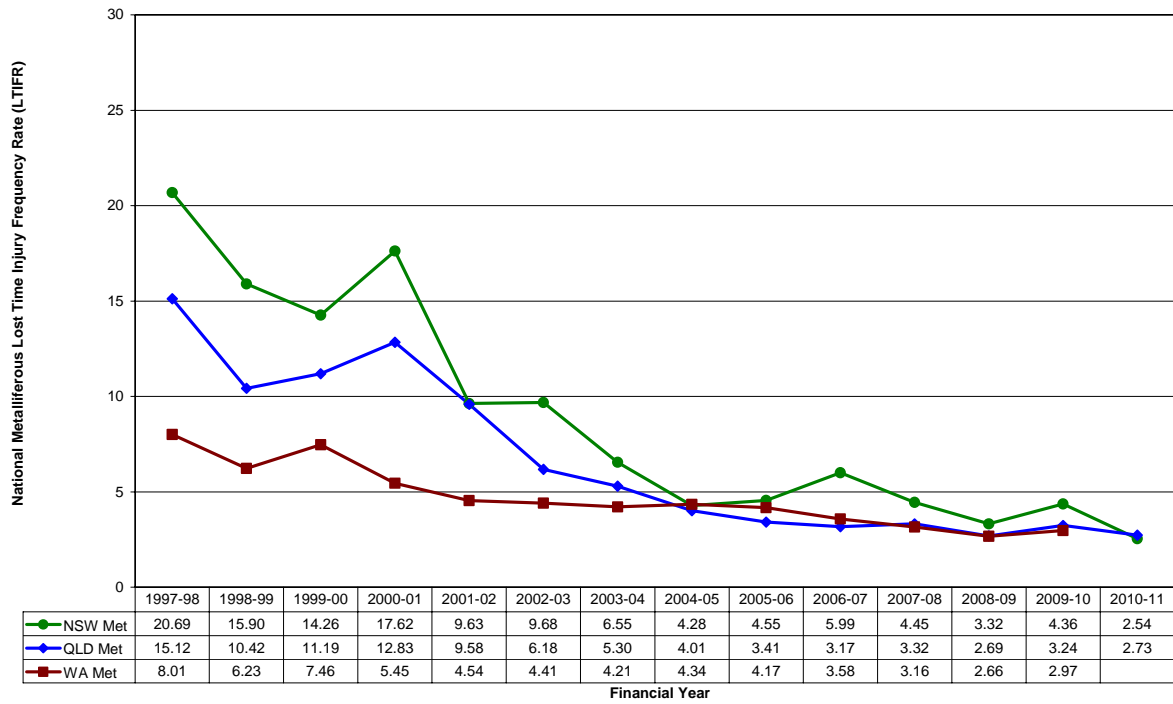
**Figure 81**

NSW, QLD and WA National Coal Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11



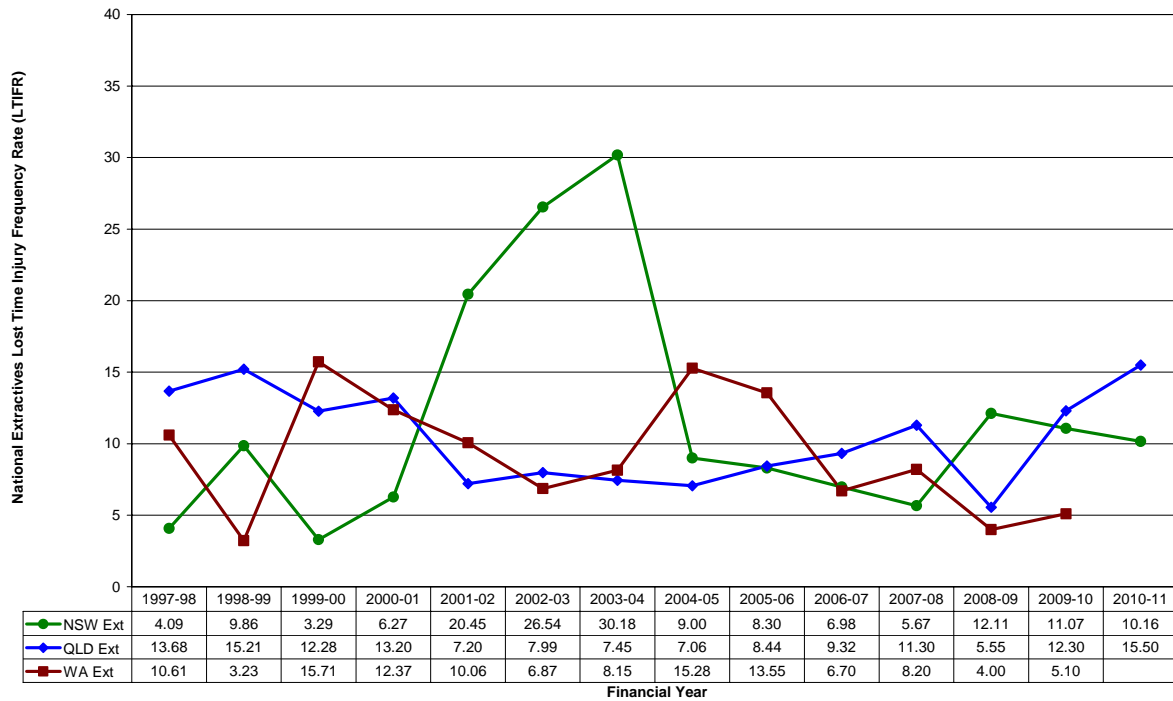
Refer to Appendix B.9 for Sources of Data

**Figure 82**  
NSW, QLD and WA Metalliferous Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11



Refer to Appendix B.9 for Sources of Data

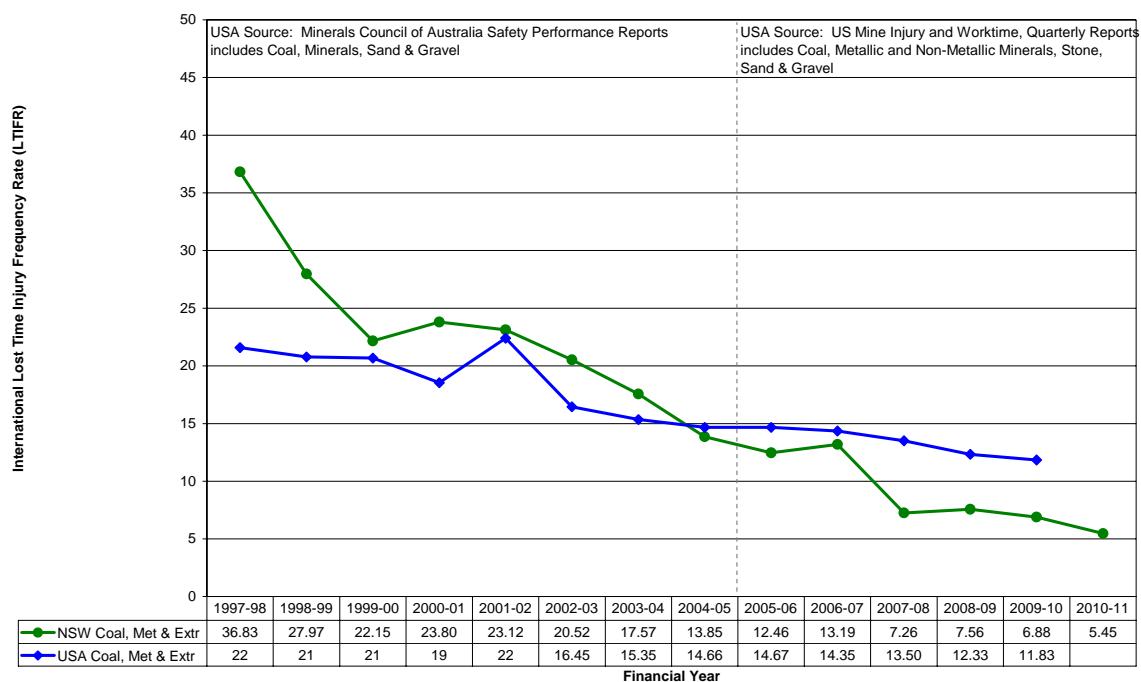
**Figure 83**  
NSW, QLD and WA Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11



Refer to Appendix B.9 for Sources of Data

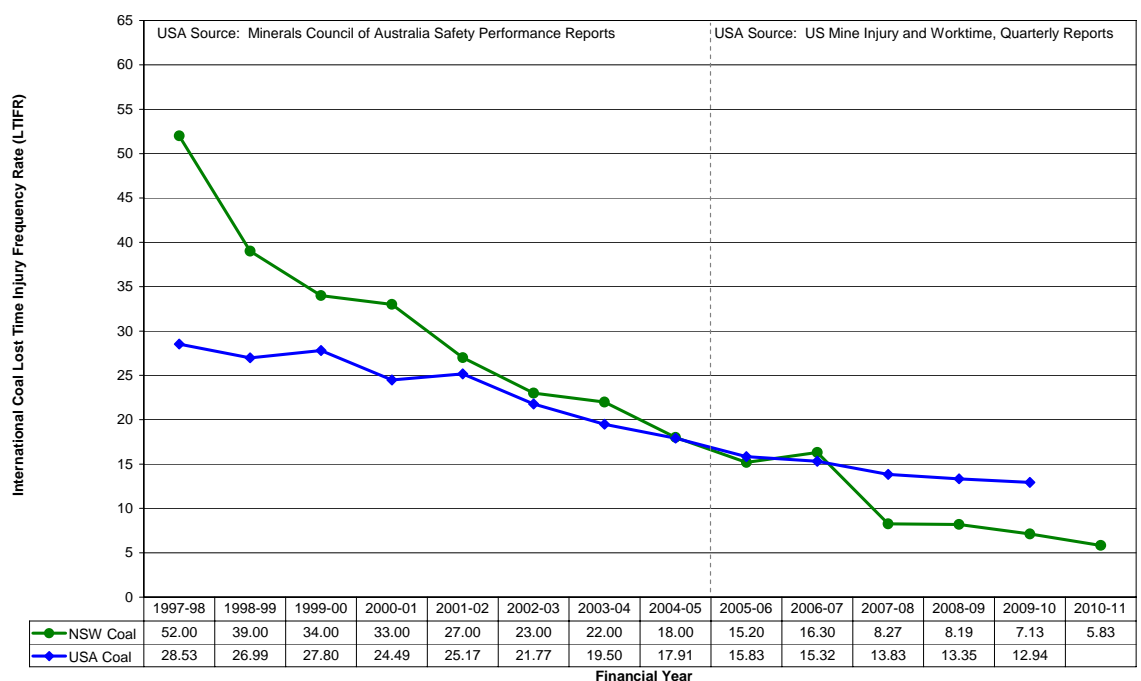
### 4.3.4 Annual Lost Time Injury Frequency Rate (LTIFR) International Comparison 1997-98 to 2010-11

**Figure 84**  
NSW and USA Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11



Refer to Appendix B.9 for Sources of Data

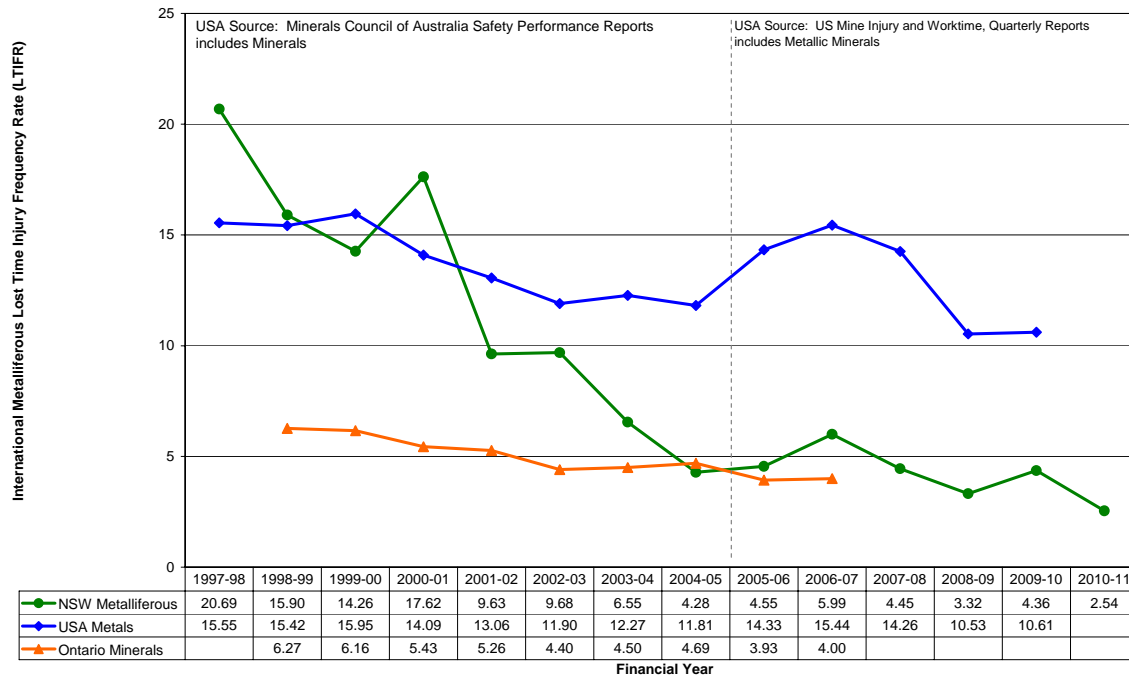
**Figure 85**  
NSW and USA Coal Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11



Refer to Appendix B.9 for Sources of Data

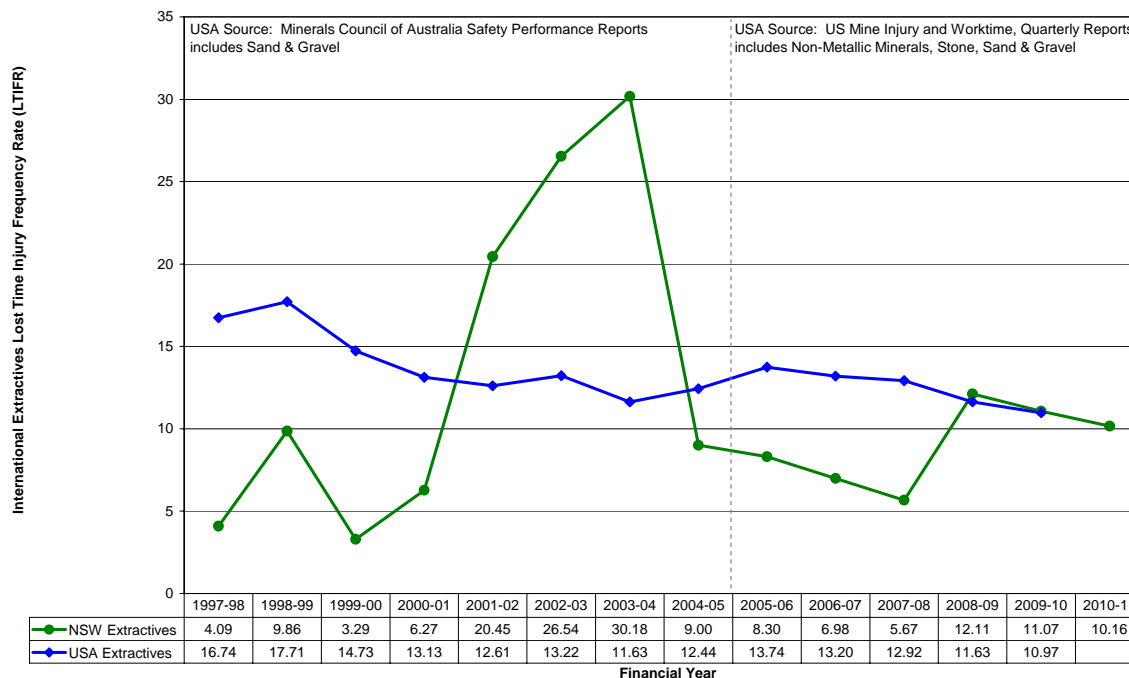


**Figure 86**  
NSW, USA and Ontario Metalliferous Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11



Refer to Appendix B.9 for Sources of Data

**Figure 87**  
NSW and USA Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2010-11



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

In 2010-11:

- Over two thirds of all TRIs occurred at underground operations

From 2009-10 to 2010-11:

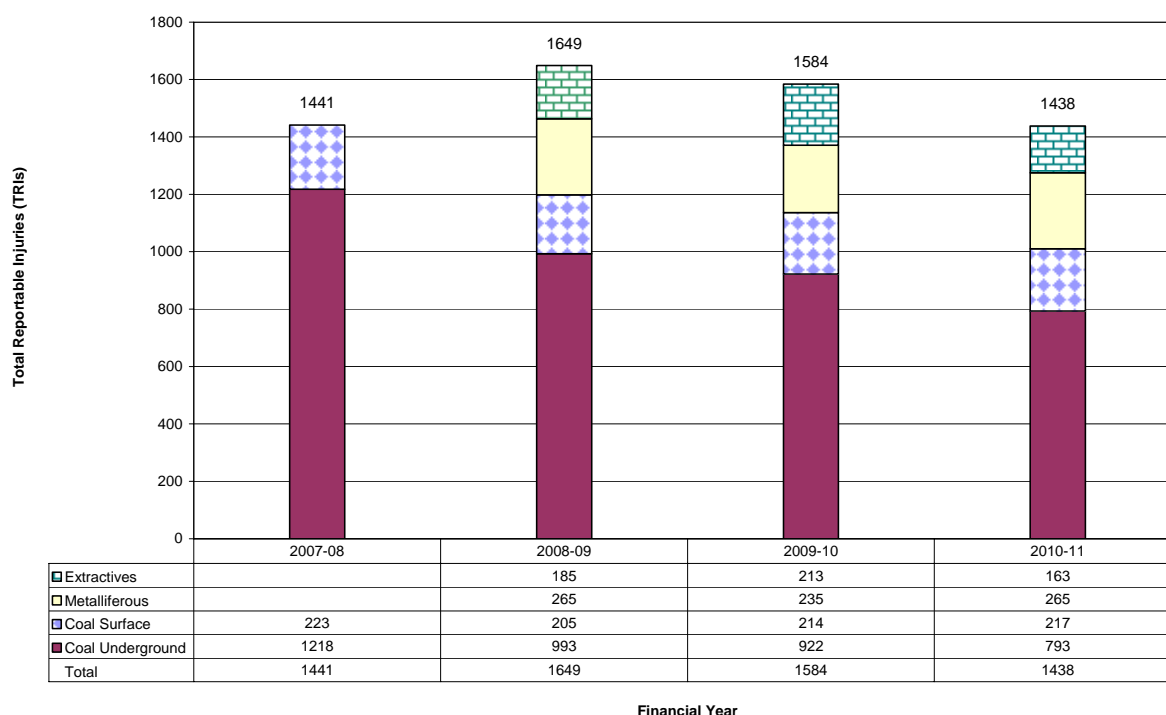
- The number of Coal sector TRIs fell by 11.1% from 1136 to 1010
- While the number of Metalliferous underground TRIs fell by 10.1% from 199 to 179, the number of Metalliferous surface TRIs more than doubled from 36 to 86
- The number of Extractives TRIs fell by 23.5% from 213 to 163

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

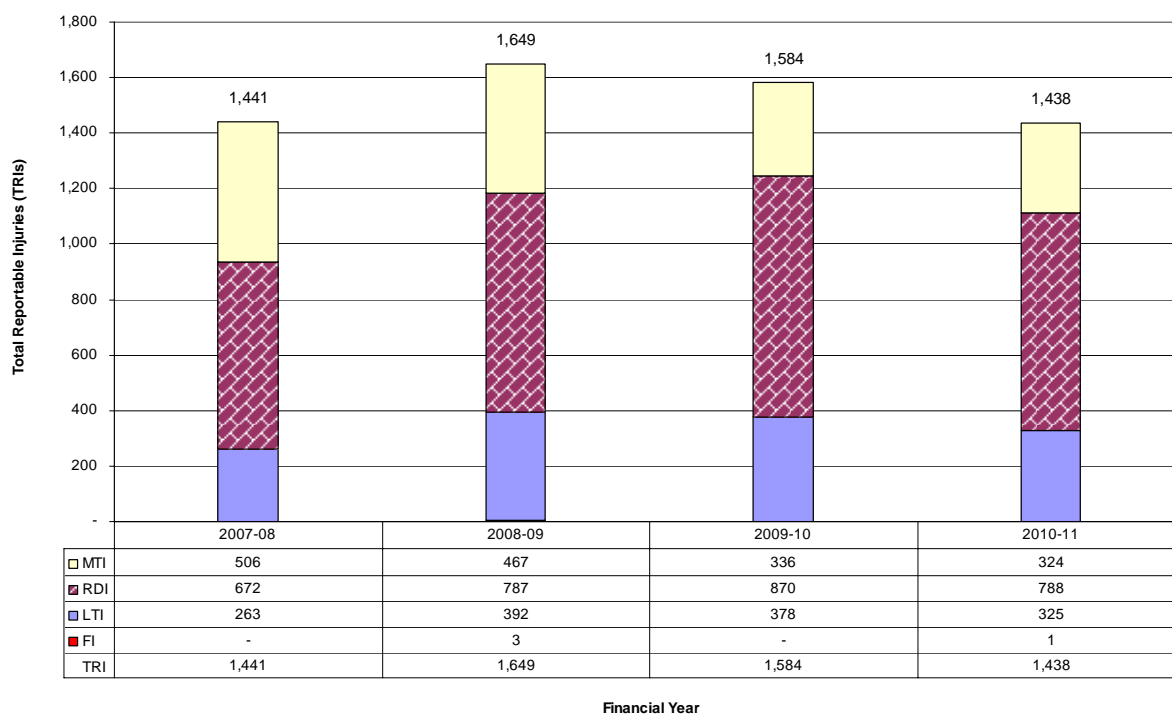
**Figure 88**

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Sector 2007-08 to 2010-11

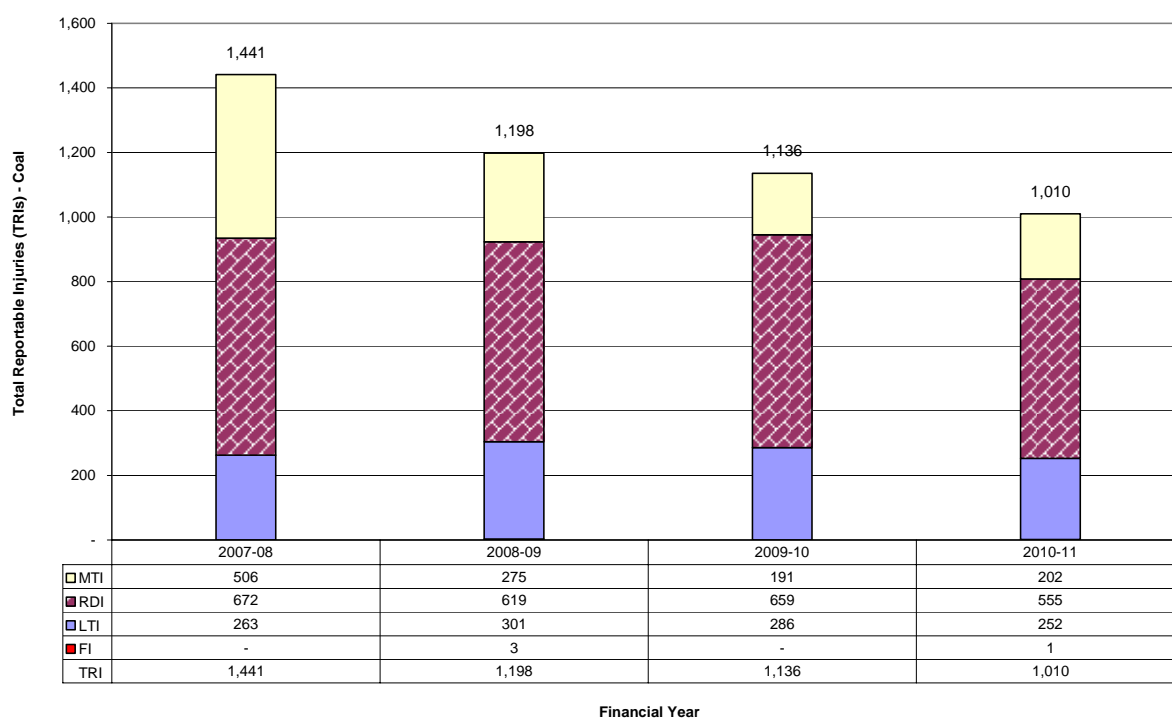


## 4.4.2 Total Recordable Injuries by Injury Type

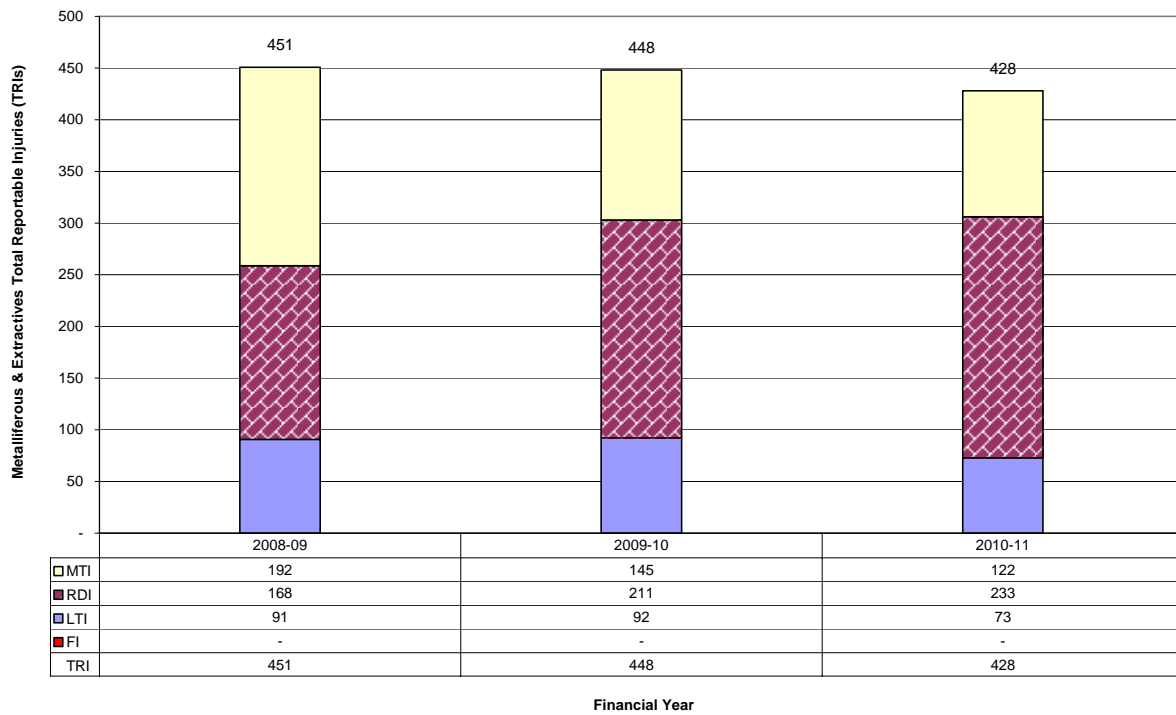
**Figure 89**  
NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Injury Type  
2007-08 to 2010-11



**Figure 90**  
NSW Coal Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2010-11



**Figure 91**  
 NSW Metalliferous & Extractives Total Recordable Injuries (TRIs) by Injury Type  
 2007-08 to 2010-11

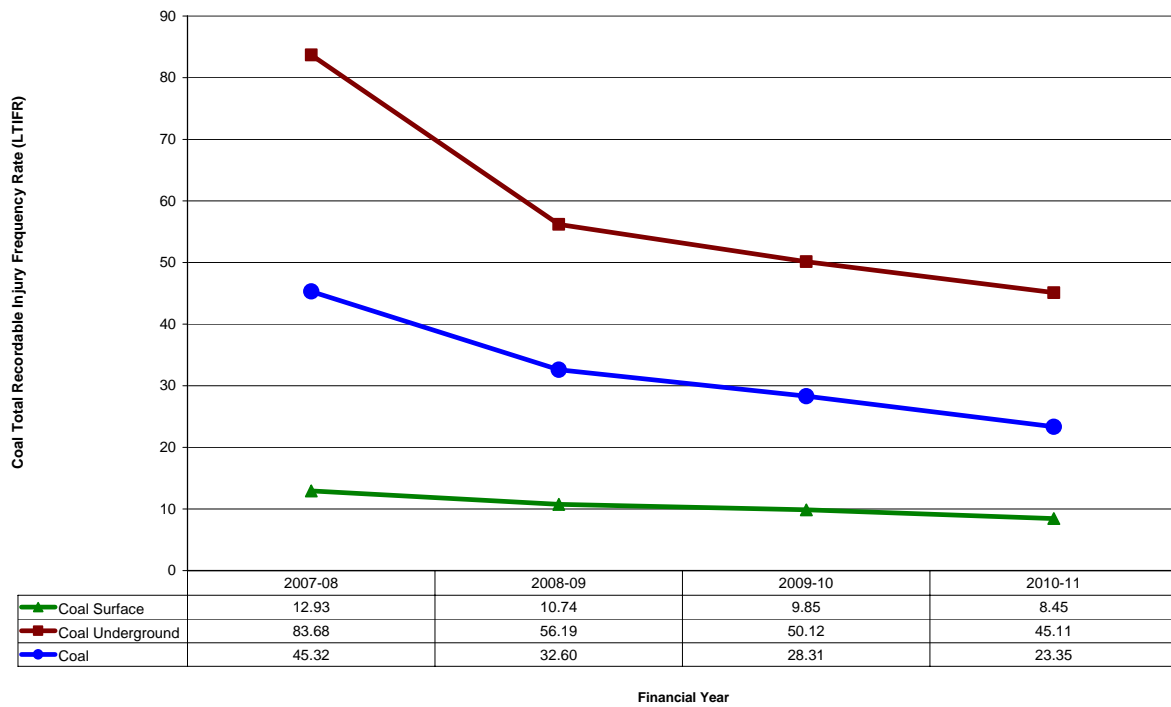


Refer to Appendix A.5 for further details of Total Recordable Injuries by Sector and Operation Type.

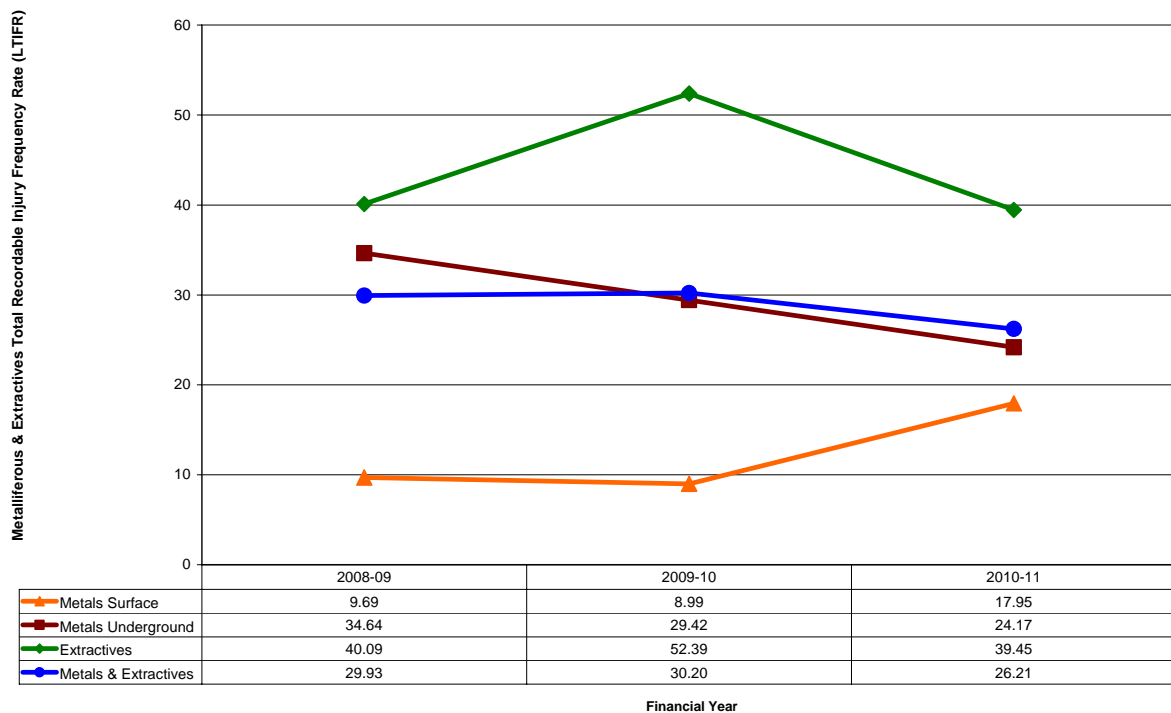
**Figure 92**  
 NSW Coal, Metalliferous & Extractives Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2010-11



**Figure 93**  
NSW Coal Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2010-11



**Figure 94**  
NSW Metalliferous & Extractives Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2010-11



## 4.5 Serious Bodily Injuries (SBIs)

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

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

Note that Petroleum (Onshore) serious bodily injuries are notified at a lower threshold than for the rest of the industry, but are still included in the analysis by event subtype, mechanism, agency, nature of injury, bodily location, age group and employment type.

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

In 2010-11:

- SBIs were predominantly associated with falls of person, and fractures were the most common nature of injury. The majority of SBIs 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.
- The Coal, Metalliferous & Extractives SBIFR of 0.62 was 29.5% below the five year average of 0.88.
- The Coal sector SBIFR of 0.65 was 22.6% below the five year average of 0.84.
- The Metalliferous & Extractives sector achieved a near-record low SBIFR of 0.55 which was 42.7% below the five year average of 0.96.

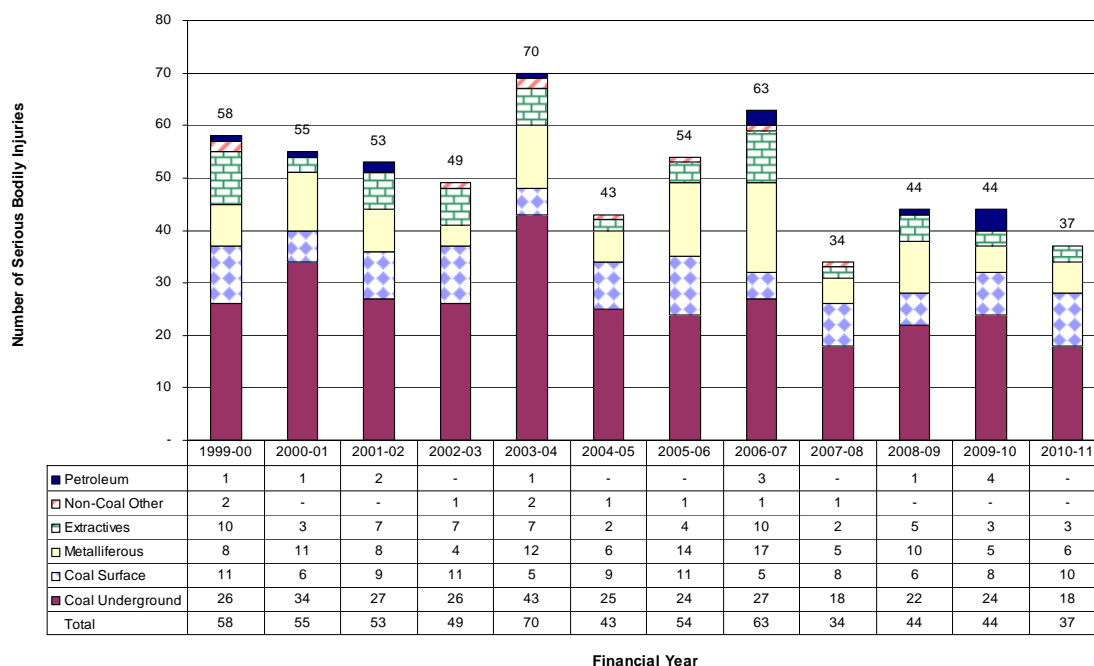
From 2009-10 to 2010-11:

- Coal sector SBIs fell from 32 to 28.
- Metalliferous & Extractives sector SBIs rose from 8 to 9.
- Petroleum (Onshore) SBIs fell from 4 to 0.

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

## 4.5.1 Serious Bodily Injuries by Sector

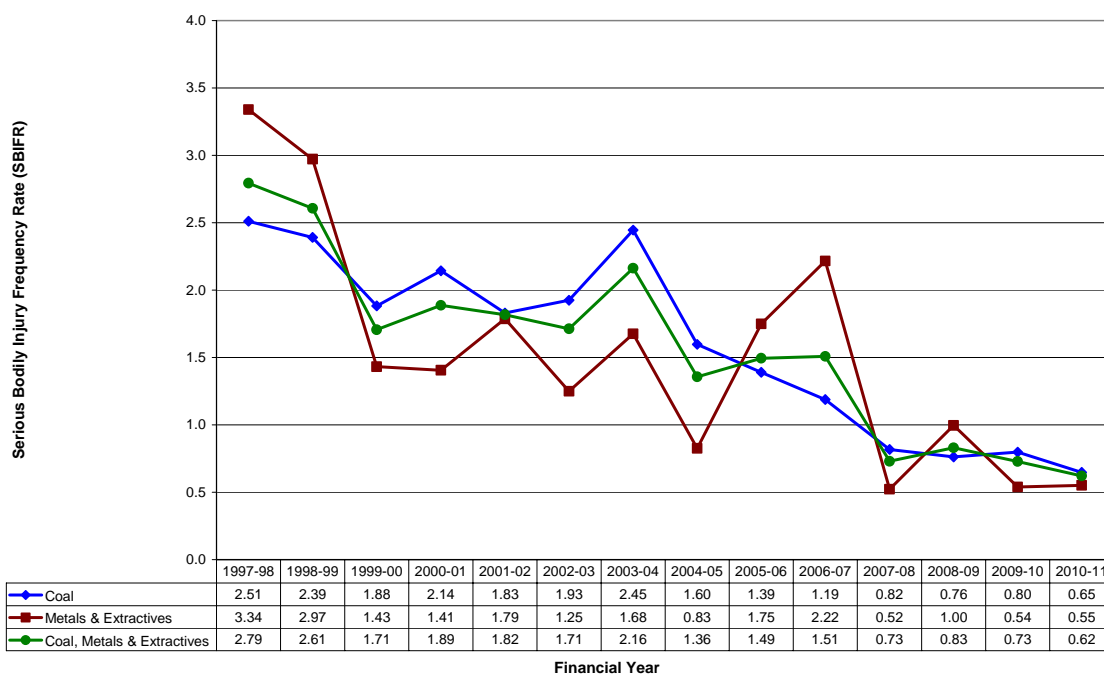
**Figure 95**  
Serious Bodily Injuries by Sector 1999-00 to 2010-11



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

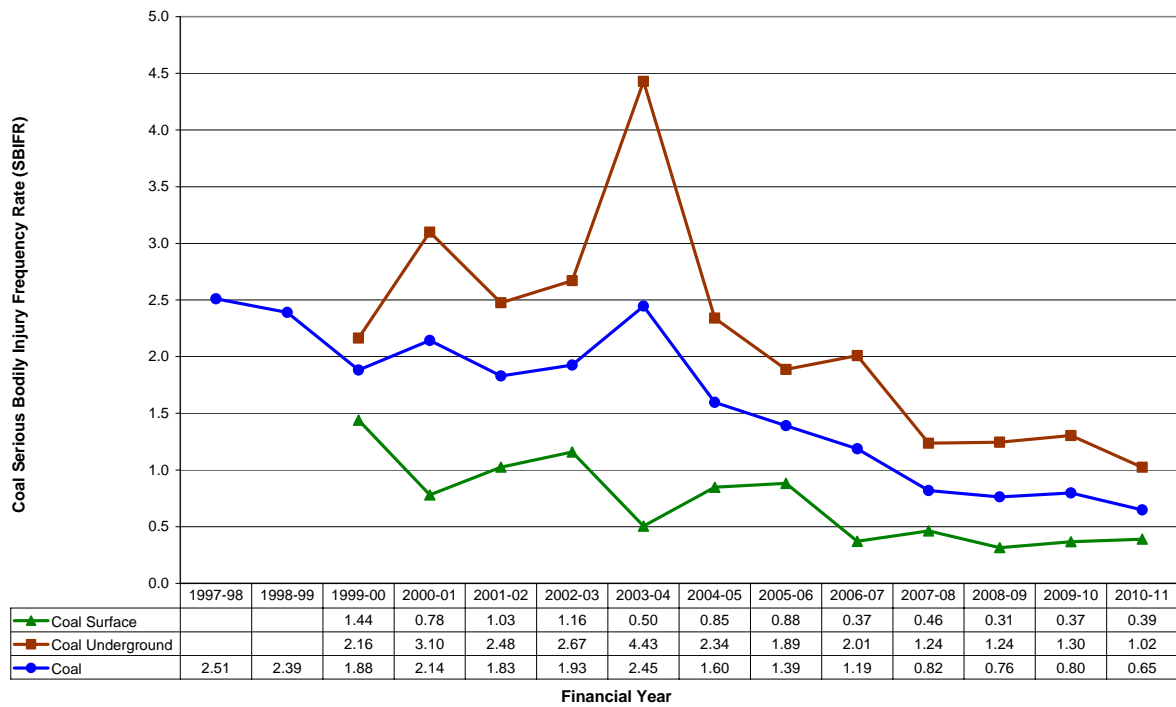
## 4.5.2 Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2010-11

**Figure 96**  
NSW Coal, Metalliferous & Extractives Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2010-11

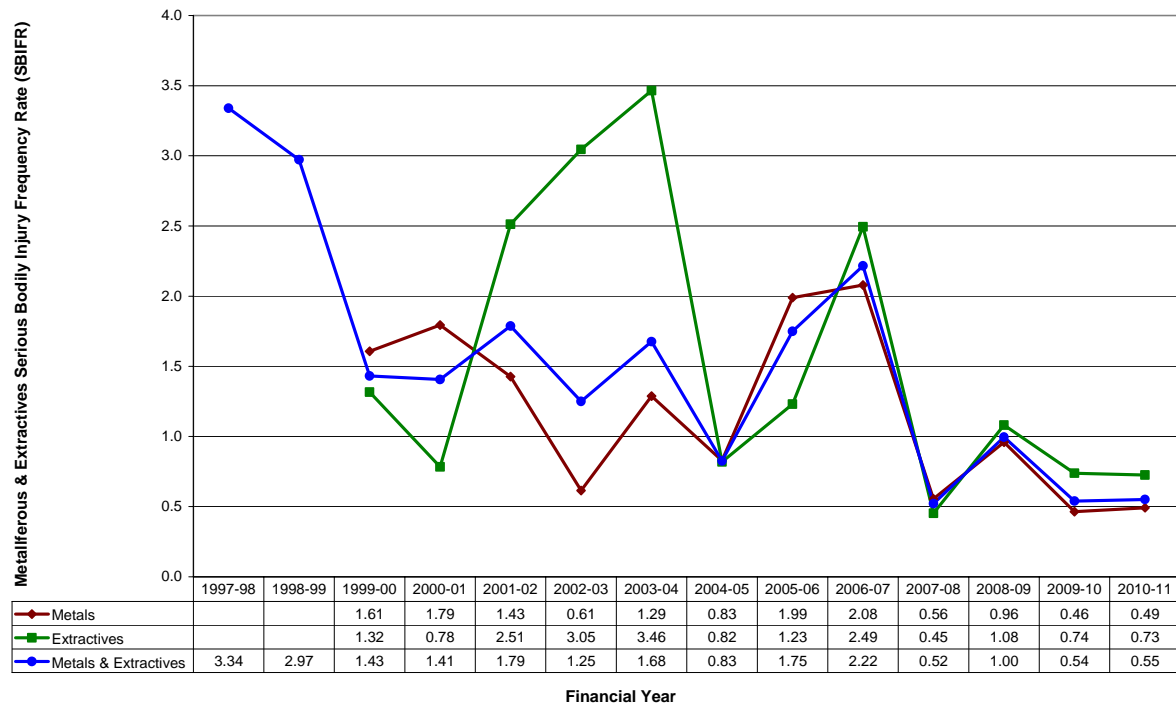


Refer to Figure 3 for Five Year Average Serious Bodily Injury Frequency Rate 2001-02 to 2010-11

**Figure 97**  
NSW Coal Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2010-11



**Figure 98**  
NSW Metalliferous & Extractives Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2010-11





### 4.5.3 Serious Bodily Injuries by Event Subtype

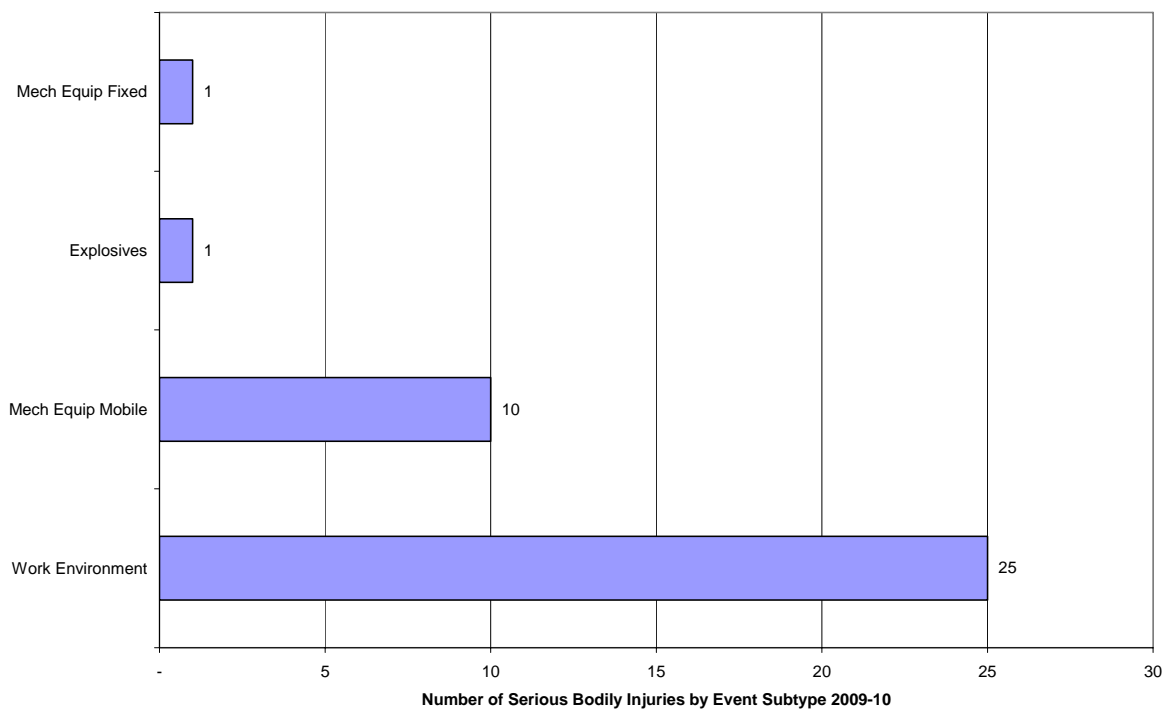
**Figure 99**

Serious Bodily Injuries by Event Subtype 1999-2000 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Mech Equip Mobile	20	18	16	21	24	22	24	33	15	22	15	10	240
Work Environment	19	16	23	16	30	15	17	20	17	19	23	25	240
Mech Equip Fixed	5	6	4	6	7	1	6	6	2	2	3	1	49
Strata/Ground 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
Explosives	-	-	-	-	-	-	-	-	-	-	-	1	1
<b>Total</b>	<b>58</b>	<b>55</b>	<b>53</b>	<b>49</b>	<b>70</b>	<b>43</b>	<b>54</b>	<b>63</b>	<b>34</b>	<b>44</b>	<b>44</b>	<b>37</b>	<b>604</b>

**Figure 100**

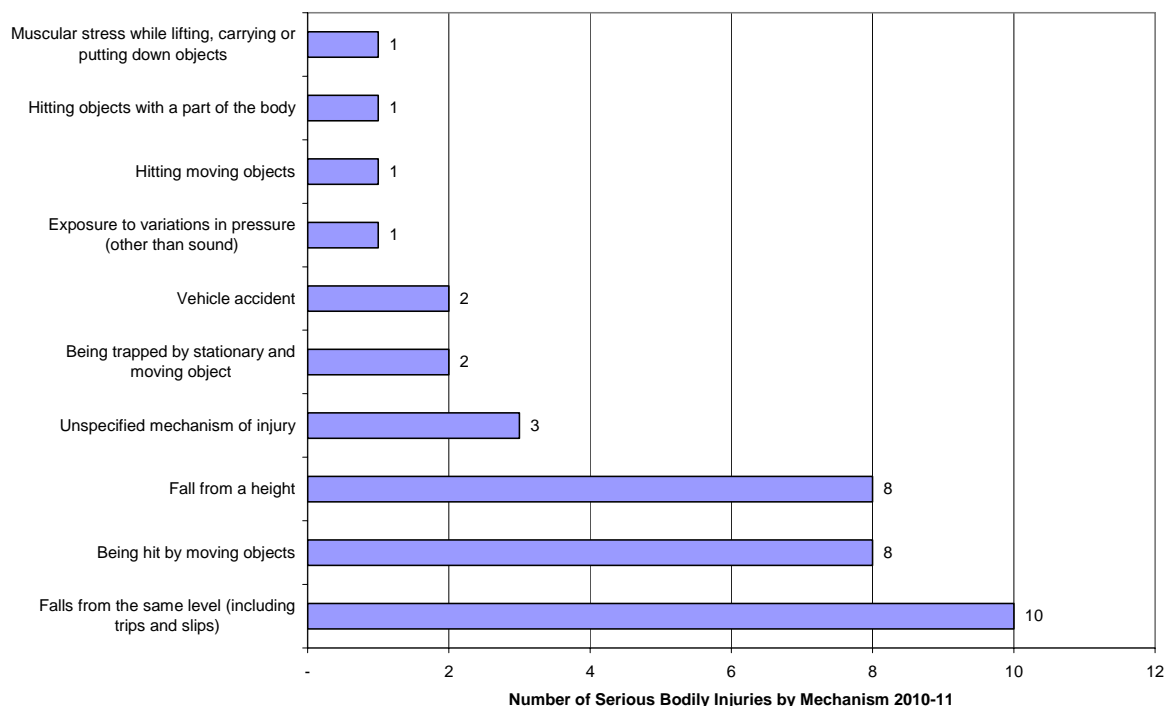
Serious Bodily Injuries by Event Subtype 2010-11



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

### 4.5.4 Serious Bodily Injuries by Mechanism

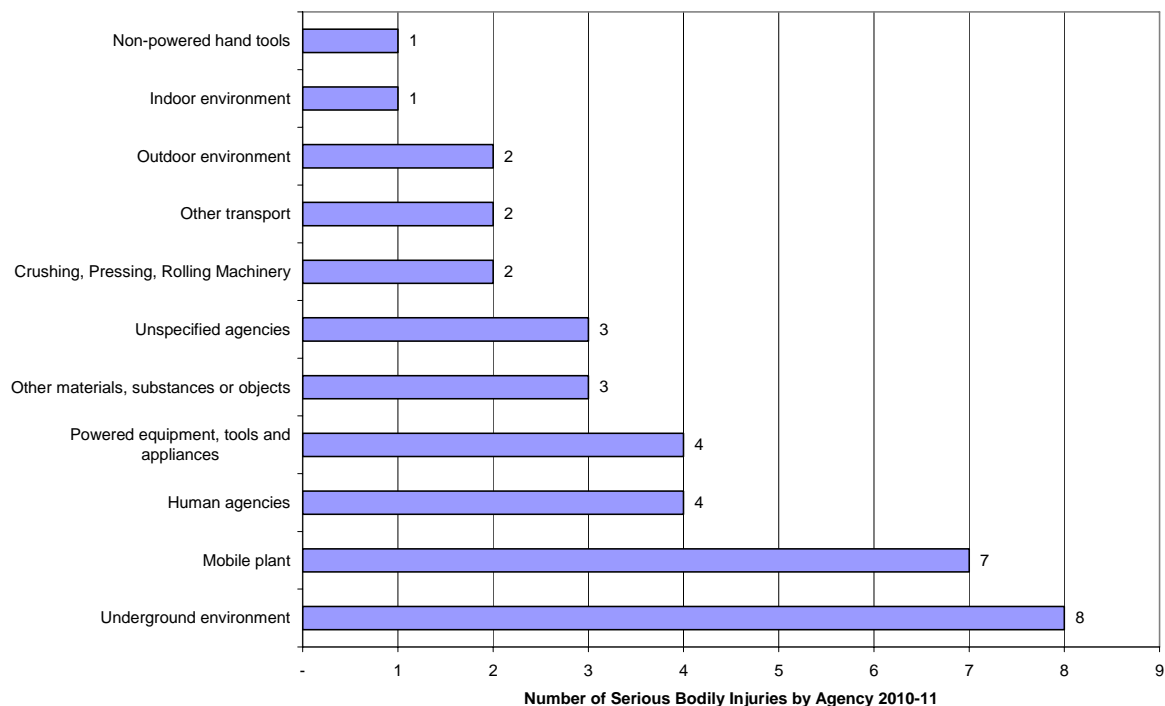
**Figure 101**  
 Serious Bodily Injuries by Mechanism 2010-11



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

### 4.5.5 Serious Bodily Injuries by Agency

**Figure 102**  
 Serious Bodily Injuries by Agency 2010-11

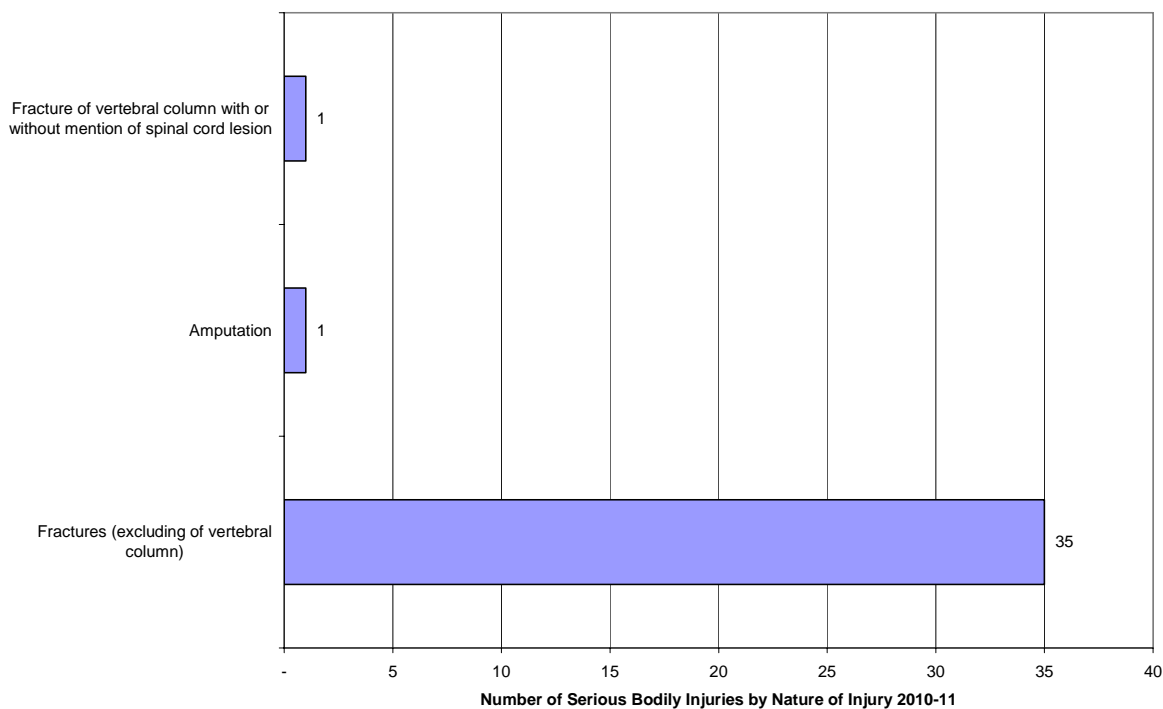


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Agency.

### 4.5.6 Serious Bodily Injuries by Nature of Injury

**Figure 103**

Serious Bodily Injuries by Nature of Injury 2010-11

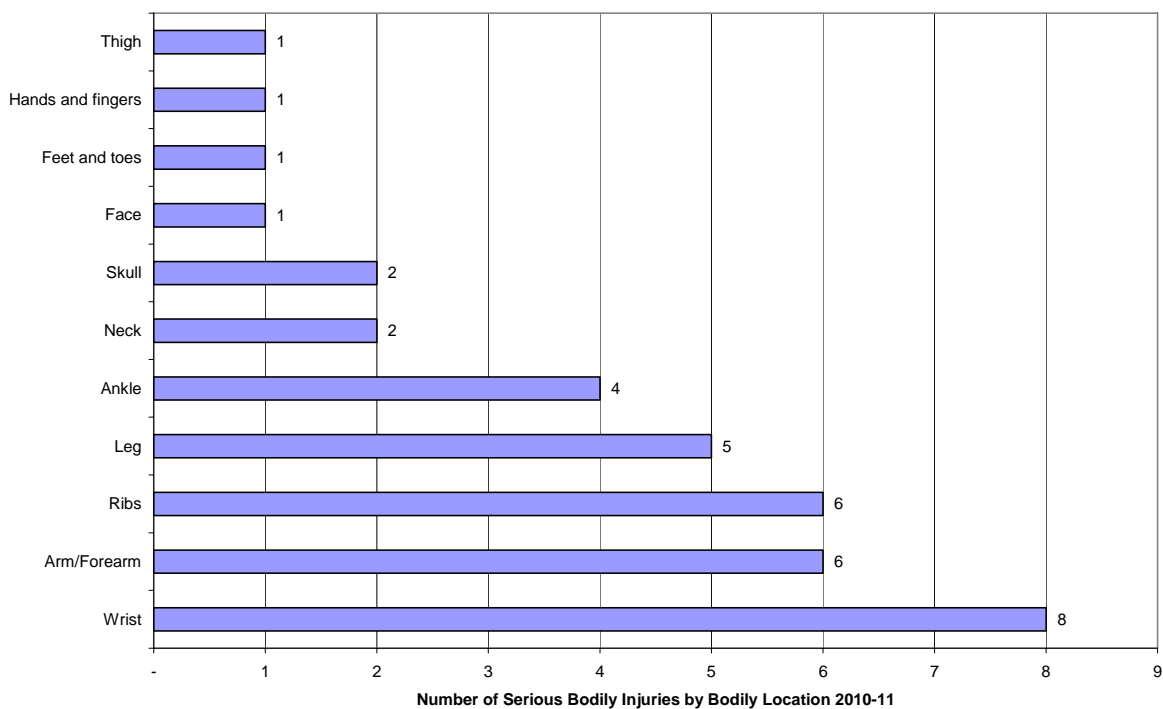


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Nature of Injury.

### 4.5.7 Serious Bodily Injuries by Bodily Location

**Figure 104**

Serious Bodily Injuries by Bodily Location 2010-11

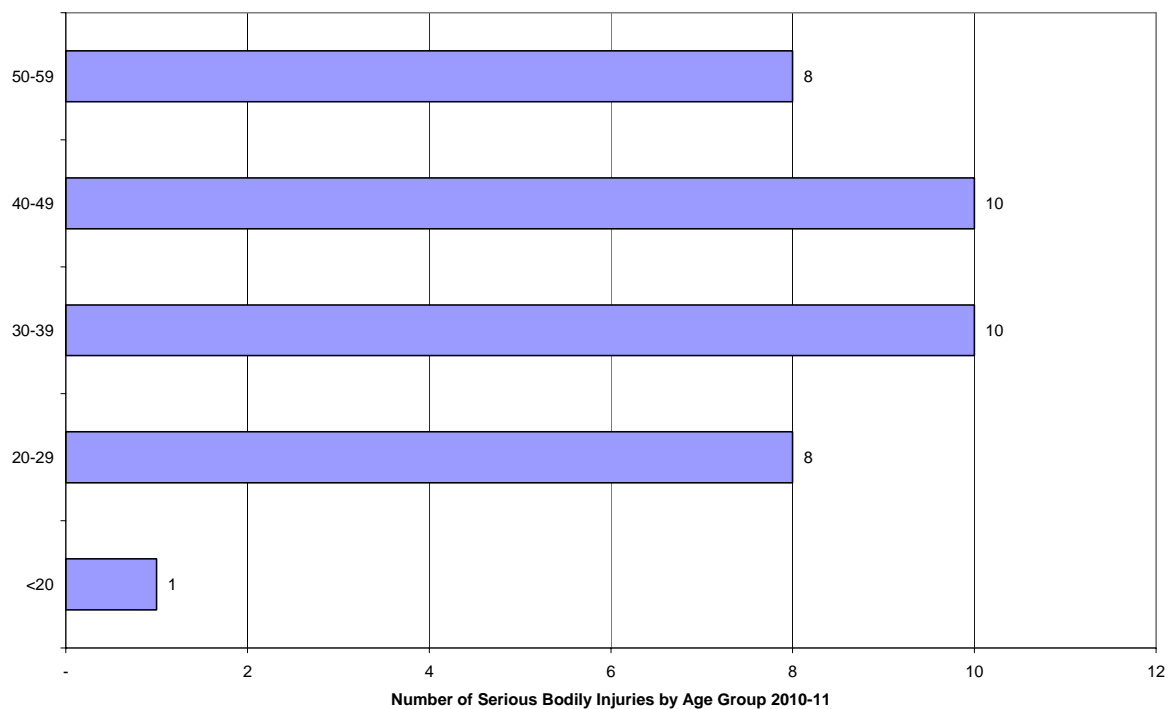


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Bodily Location.

### 4.5.8 Serious Bodily Injuries by Age Group

Figure 105

Serious Bodily Injuries by Age Group 2010-11

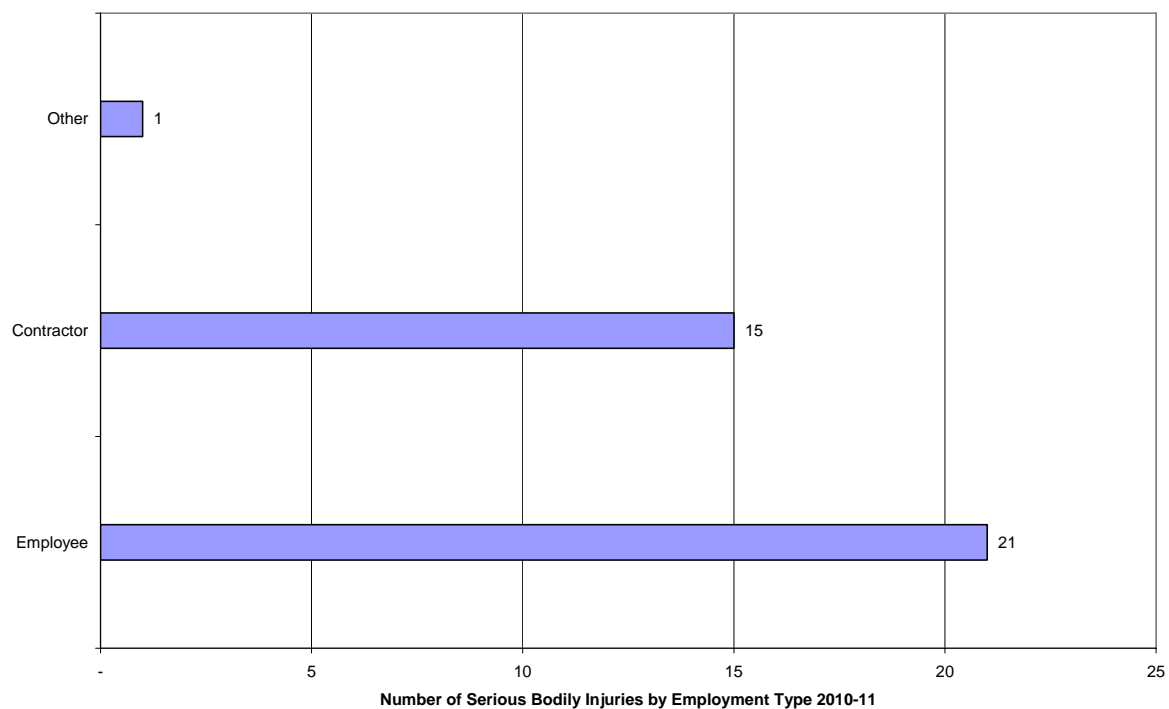


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Age Group.

### 4.5.9 Serious Bodily Injuries by Employment Type

Figure 106

Serious Bodily Injuries by Employment Type 2010-11



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 NSW Trade & Investment.

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

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

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

In 2010-11:

- 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, 81.3% occurred in underground operations and the majority were related to either the work environment or mobile mechanical equipment.

From 2009-10 to 2010-11:

- The number of injuries in the Coal sector that resulted in an outcome of at least seven days lost time and/or alternative duties increased by 1% while the number of injuries that resulted in an outcome of hospital inpatient admission decreased by 19.6%.
- The number of injuries in the Non-Coal sector that resulted in an outcome of at least seven days lost time and/or alternative duties increased by 13% while the number of injuries that resulted in an outcome of hospital inpatient admission decreased by 22.7%.

*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

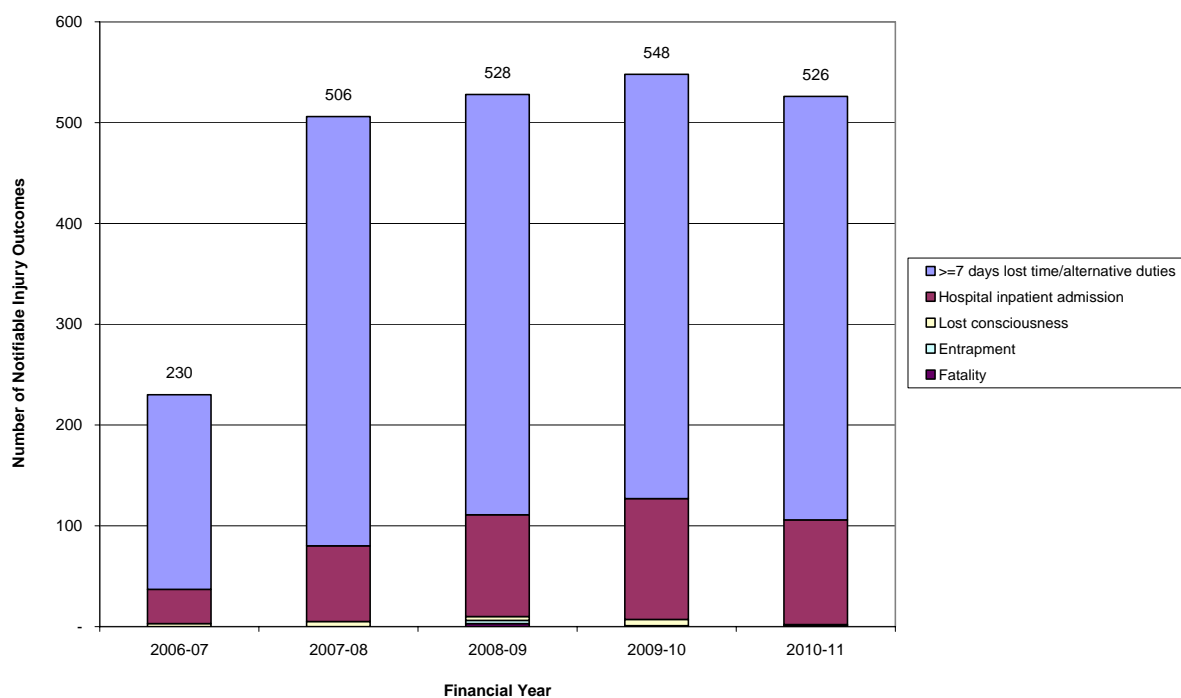
**Figure 107**

Notifiable Injury Outcomes by Injury Outcome mid 2006-07 to 2010-11

Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
>=7 days lost time/alternative duties	193	426	417	421	420	1,877
Hospital inpatient admission	34	75	101	120	104	434
Lost consciousness	3	5	4	6	-	18
Entrapment	-	-	3	1	1	5
Fatality	-	-	3	-	1	4
<b>Total</b>	<b>230</b>	<b>506</b>	<b>528</b>	<b>548</b>	<b>526</b>	<b>2,338</b>

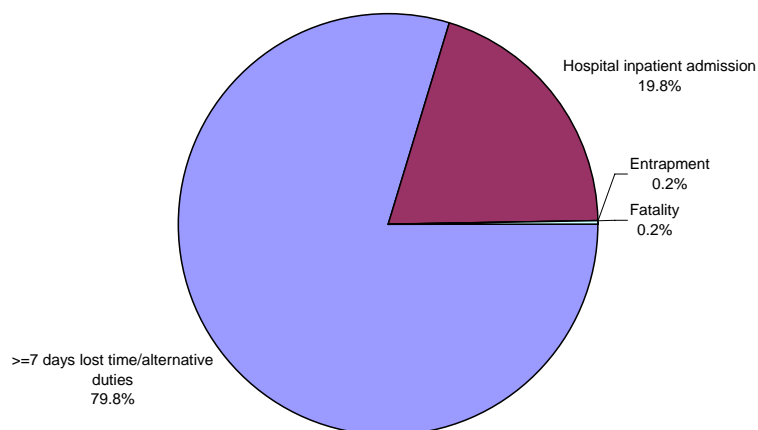
**Figure 108**

Notifiable Injury Outcomes by Injury Outcome mid 2006-07 to 2010-11



**Figure 109**

Notifiable Injury Outcomes 2010-11

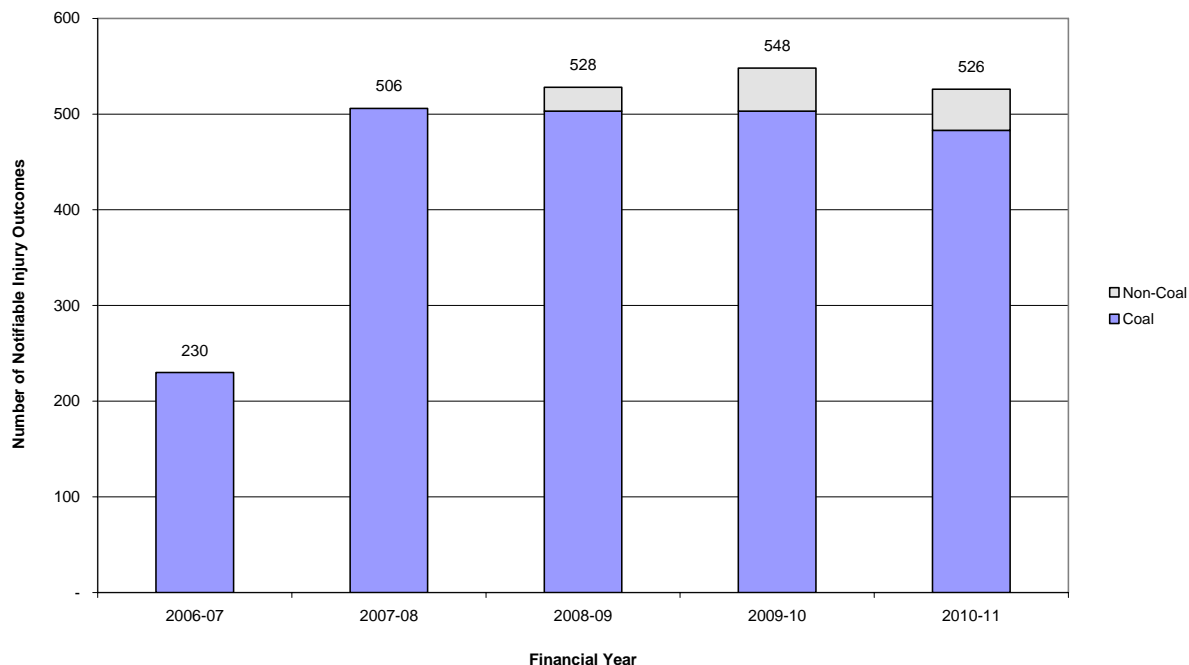


Refer to Appendix A.7 for further details of Notifiable Injury Outcomes.

## 4.6.2 Notifiable Injury Outcomes by Sector

**Figure 110**

Notifiable Injury Outcomes by Sector mid 2006-07 to 2010-11

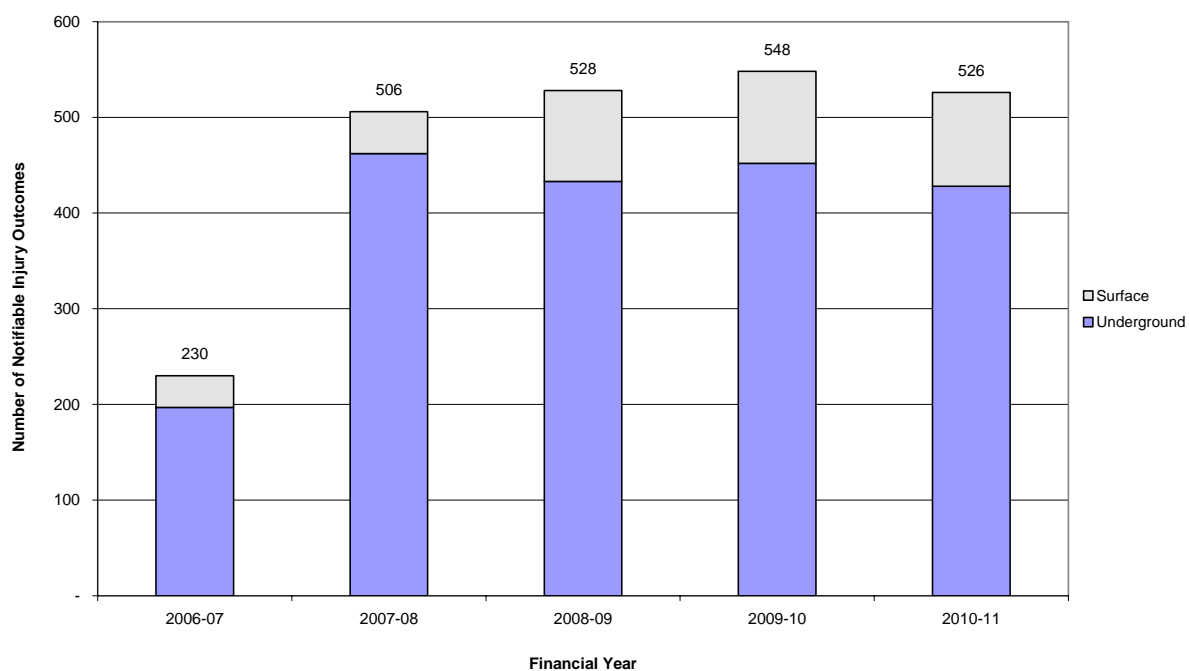


Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Sector

## 4.6.3 Notifiable Injury Outcomes by Operation Type

**Figure 111**

Notifiable Injury Outcomes by Surface/Underground Operation mid 2006-07 to 2010-11



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

## 4.6.4 Notifiable Injury Outcomes by Event Subtype

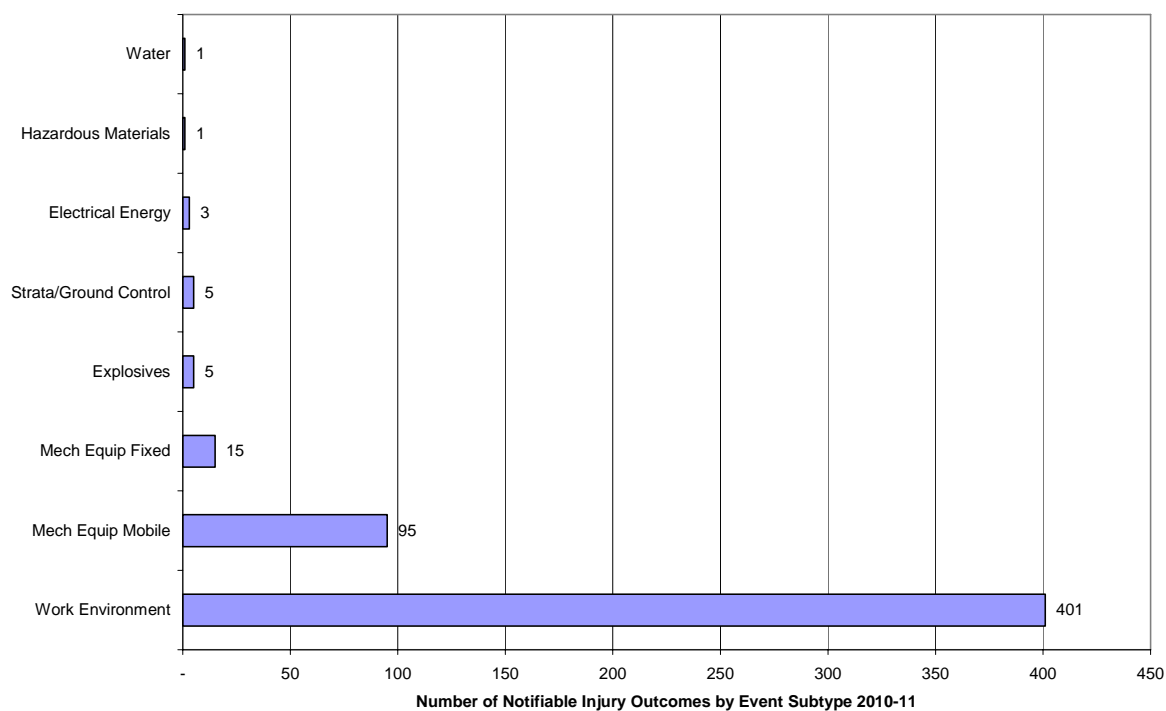
**Figure 112**

Notifiable Injury Outcomes by Event Subtype mid 2006-07 to 2010-11

Event Subtype	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Work Environment	129	312	325	366	401	1,533
Mech Equip Mobile	87	178	174	153	95	687
Mech Equip Fixed	6	8	17	14	15	60
Strata/Ground Control	3	2	6	8	5	24
Electrical Energy	1	2	5	3	3	14
Hazardous Materials	3	2	-	2	1	8
Explosives	-	-	-	2	5	7
Gas	-	2	-	-	-	2
Structural Failure	1	-	1	-	-	2
Water	-	-	-	-	1	1
<b>Total</b>	<b>230</b>	<b>506</b>	<b>528</b>	<b>548</b>	<b>526</b>	<b>2,338</b>

**Figure 113**

Notifiable Injury Outcomes by Event Subtype 2010-11



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

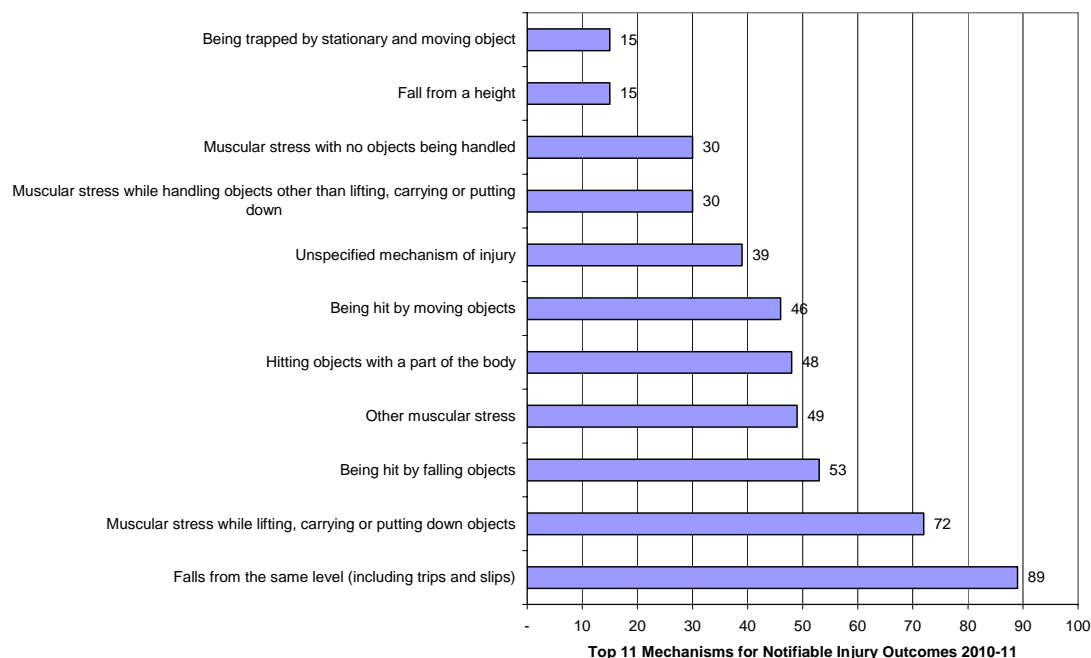


## 4.6.5 Notifiable Injury Outcomes by Mechanism

**Figure 114**

Top 11 Mechanisms for Notifiable Injury Outcomes 2010-11

The top 11 mechanisms represent 486 (92%) of 526 notifiable injury outcomes.



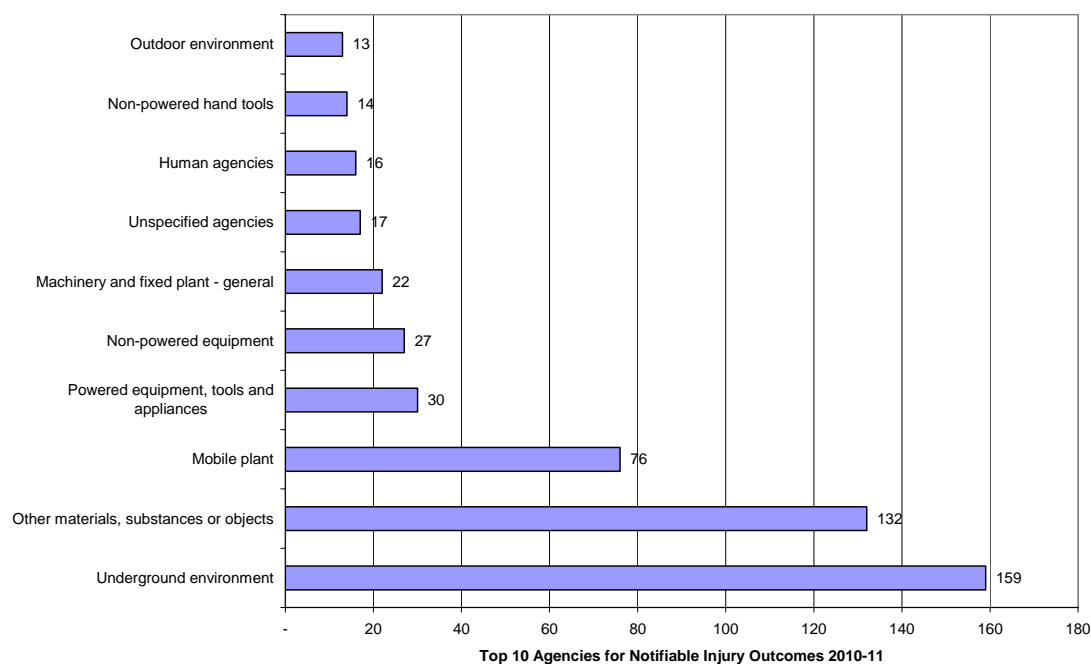
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Mechanism.

## 4.6.6 Notifiable Injury Outcomes by Agency

**Figure 115**

Top 10 Agencies for Notifiable Injury Outcomes 2010-11

The top 10 agencies represent 506 (96%) of 526 notifiable injury outcomes.



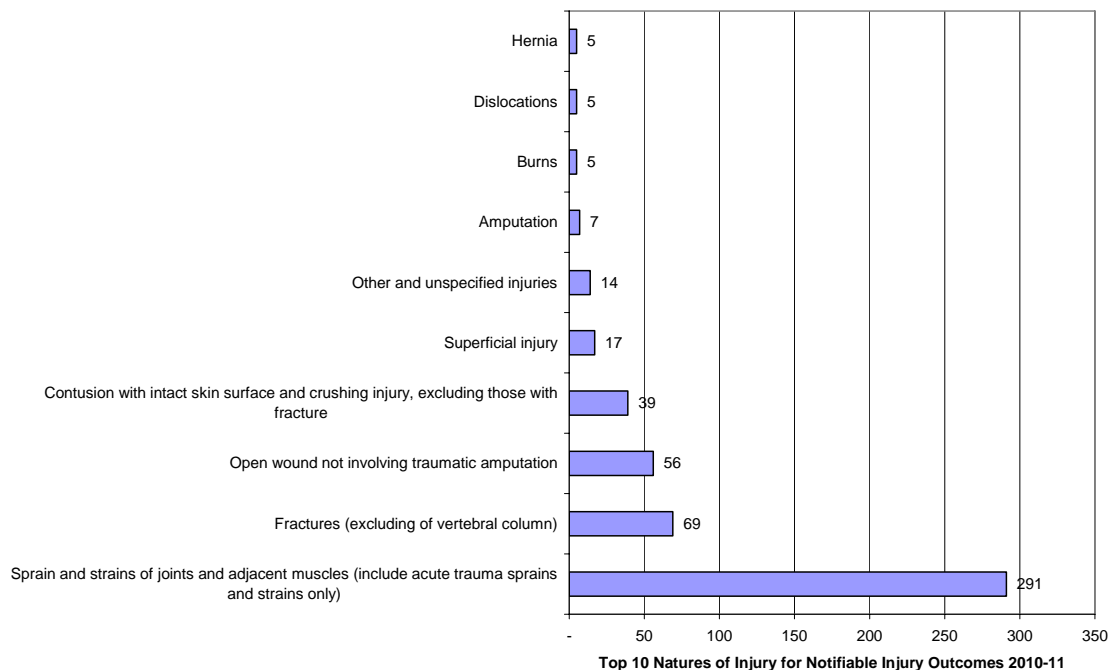
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Agency.

## 4.6.7 Notifiable Injury Outcomes by Nature of Injury

**Figure 116**

Top 10 Natures of Injury for Notifiable Injury Outcomes 2010-11

The top 10 natures of injury represent 508 (97%) of 526 notifiable injury outcomes.



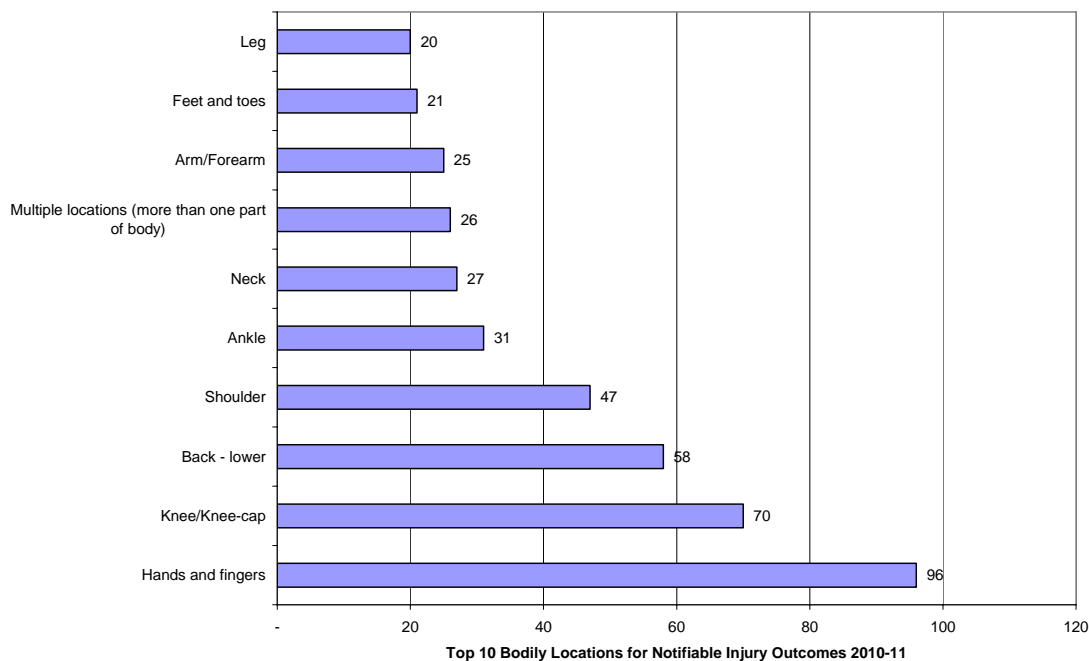
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Nature of Injury.

## 4.6.8 Notifiable Injury Outcomes by Bodily Location

**Figure 117**

Top 10 Bodily Locations for Notifiable Injury Outcomes 2010-11

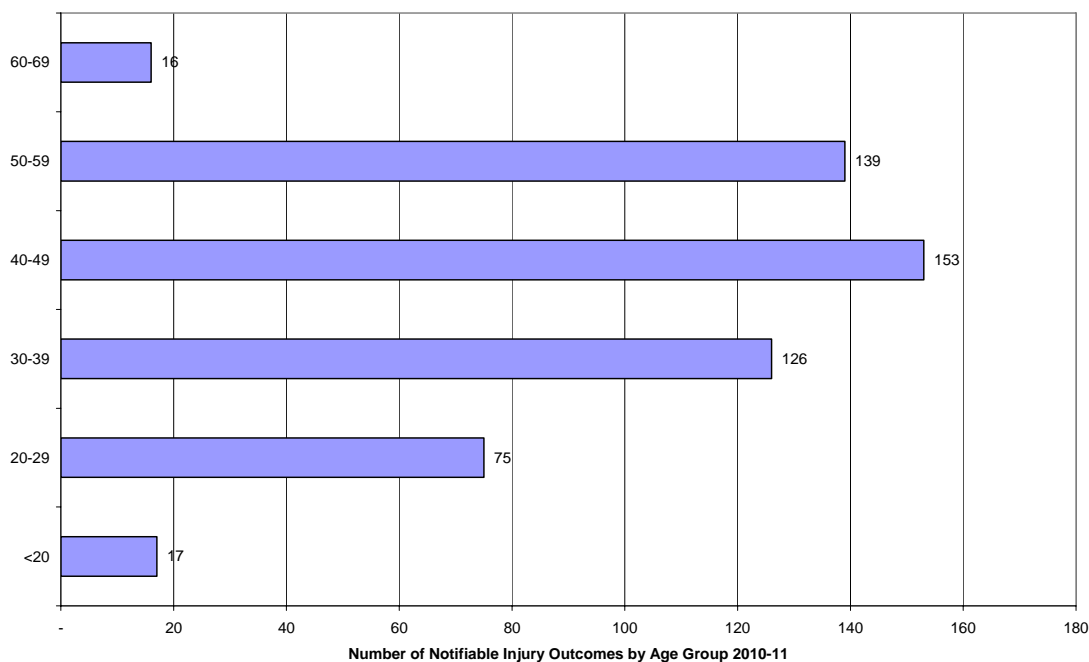
The top 10 bodily locations represent 421 (80%) of 526 notifiable injury outcomes



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

### 4.6.9 Notifiable Injury Outcomes by Age Group

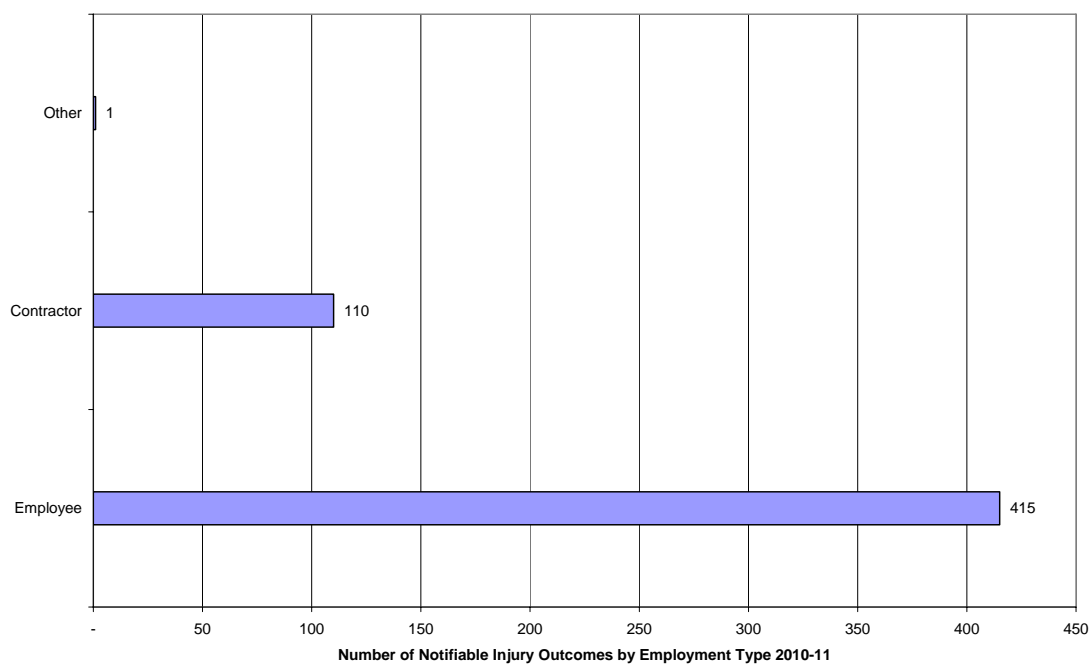
**Figure 118**  
Notifiable Injury Outcomes by Age Group 2010-11



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 119**  
Notifiable Injury Outcomes by Employment Type 2010-11



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 NSW Trade & Investment 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 120**

All Assessments by Sector 1999-00 to 2010-11

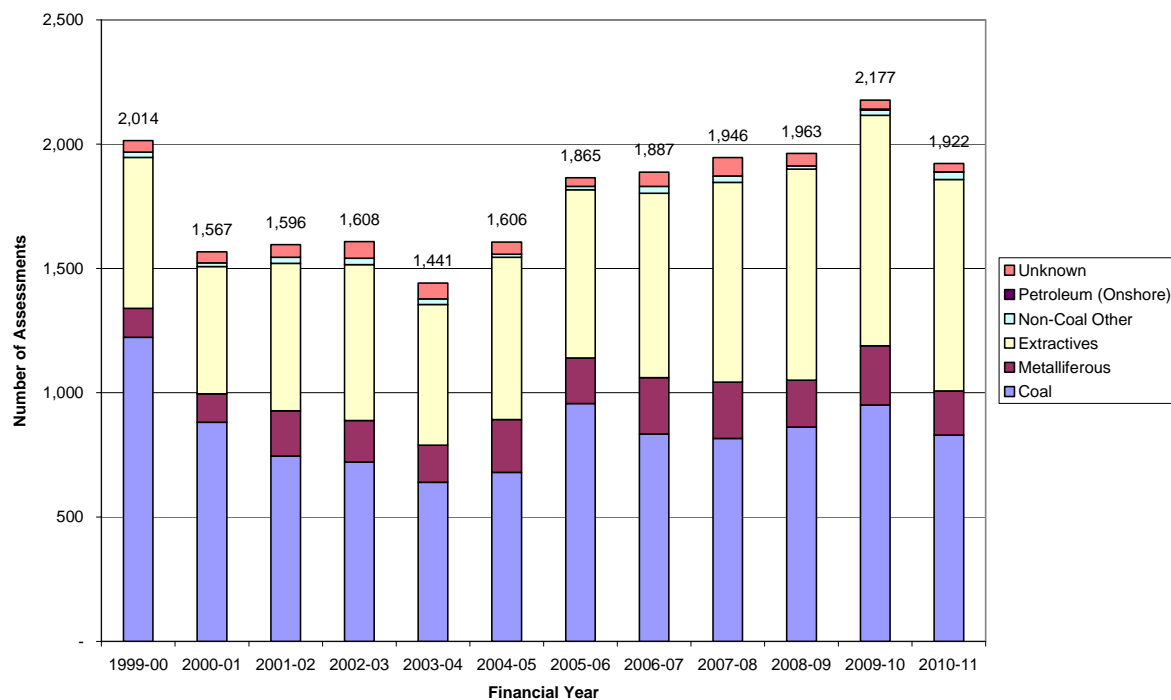
NB "Unknown" refers to assessments conducted for non-mine organisations

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Coal	1,223	881	745	721	640	679	956	834	816	862	951	829	10,137
Metalliferous	117	115	183	167	149	213	184	227	227	189	238	178	2,187
Extractives	607	512	593	627	566	653	677	741	803	849	927	851	8,406
Non-Coal Other	21	14	24	26	23	12	13	28	26	13	21	29	250
Petroleum (Onshore)	-	-	-	-	-	-	-	-	-	-	4	2	6
Unknown	46	45	51	67	63	49	35	57	74	50	36	33	606
<b>Total</b>	<b>2,014</b>	<b>1,567</b>	<b>1,596</b>	<b>1,608</b>	<b>1,441</b>	<b>1,606</b>	<b>1,865</b>	<b>1,887</b>	<b>1,946</b>	<b>1,963</b>	<b>2,177</b>	<b>1,922</b>	<b>21,592</b>

**Figure 121**

All Assessments by Sector 1999-00 to 2010-11

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



## 5.1.2 All Assessments by Operation Type

**Figure 122**

All Assessments by Operation Type 1999-00 to 2010-11

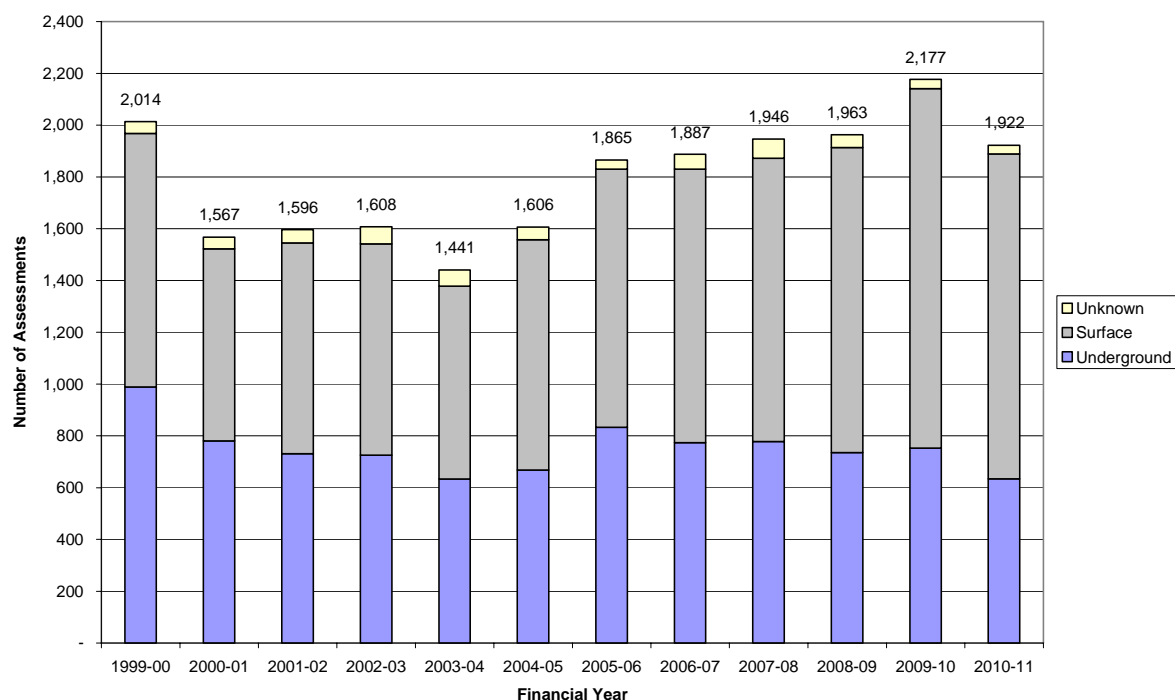
NB "Unknown" refers to assessments conducted for non-mine organisations

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Underground	989	780	731	725	633	668	833	773	778	735	753	634	9,032
Surface	979	742	814	816	745	889	997	1,057	1,094	1,178	1,388	1,255	11,954
Unknown	46	45	51	67	63	49	35	57	74	50	36	33	606
<b>Total</b>	<b>2,014</b>	<b>1,567</b>	<b>1,596</b>	<b>1,608</b>	<b>1,441</b>	<b>1,606</b>	<b>1,865</b>	<b>1,887</b>	<b>1,946</b>	<b>1,963</b>	<b>2,177</b>	<b>1,922</b>	<b>21,592</b>

**Figure 123**

All Assessments by Operation Type 1999-00 to 2010-11

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



### 5.1.3 All Assessments by Event Subtype

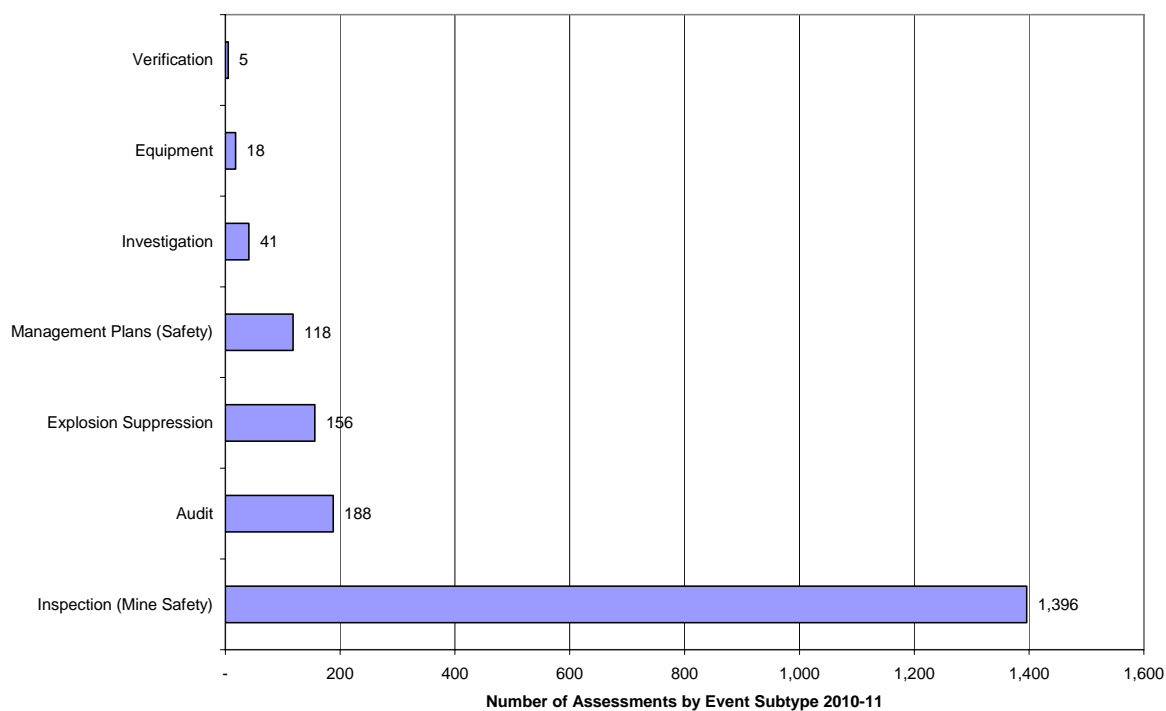
**Figure 124**

All Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	1,106	1,062	1,127	1,077	927	1,177	1,272	1,270	1,370	1,375	1,440	1,396	14,599
Audit	80	146	199	233	204	101	288	212	263	302	391	188	2,607
Explosion Suppression	206	224	162	178	143	105	90	91	116	103	159	156	1,733
Management Plans (Safety)	431	53	29	59	54	86	118	149	58	71	115	118	1,341
Investigation	38	47	52	37	52	44	58	109	105	74	48	41	705
Verification	148	33	26	18	10	9	14	16	12	9	3	5	303
Equipment	3	-	-	-	-	44	16	31	9	18	17	18	156
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
<b>Total</b>	<b>2,014</b>	<b>1,567</b>	<b>1,596</b>	<b>1,608</b>	<b>1,441</b>	<b>1,606</b>	<b>1,865</b>	<b>1,887</b>	<b>1,946</b>	<b>1,963</b>	<b>2,177</b>	<b>1,922</b>	<b>21,592</b>

**Figure 125**

All Assessments by Event Subtype 2010-11



## 5.2 Coal Assessments

### 5.2.1 Coal Assessments by Operation Type

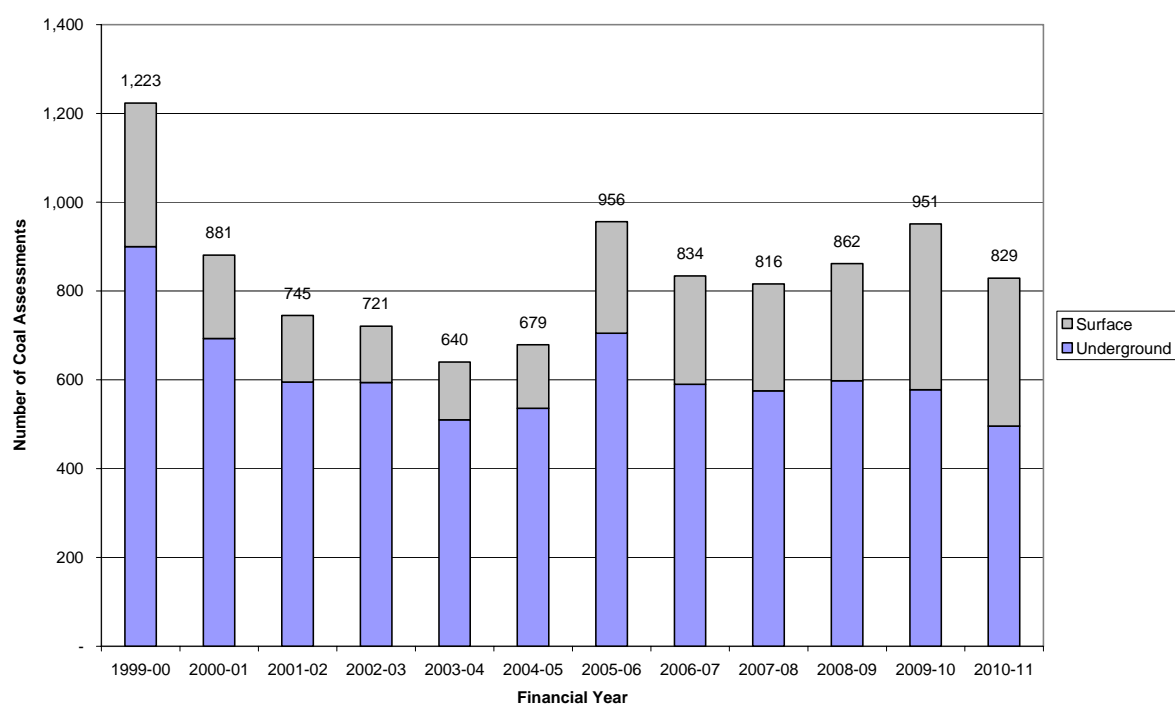
**Figure 126**

Coal Assessments by Operation Type 1999-00 to 2010-11

Sector	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Underground	900	693	595	594	510	536	705	590	575	598	578	496	7,370
Surface	323	188	150	127	130	143	251	244	241	264	373	333	2,767
<b>Total</b>	<b>1,223</b>	<b>881</b>	<b>745</b>	<b>721</b>	<b>640</b>	<b>679</b>	<b>956</b>	<b>834</b>	<b>816</b>	<b>862</b>	<b>951</b>	<b>829</b>	<b>10,137</b>

**Figure 127**

Coal Assessments 1999-00 to 2010-11



## 5.2.2 Coal Assessments by Event Subtype

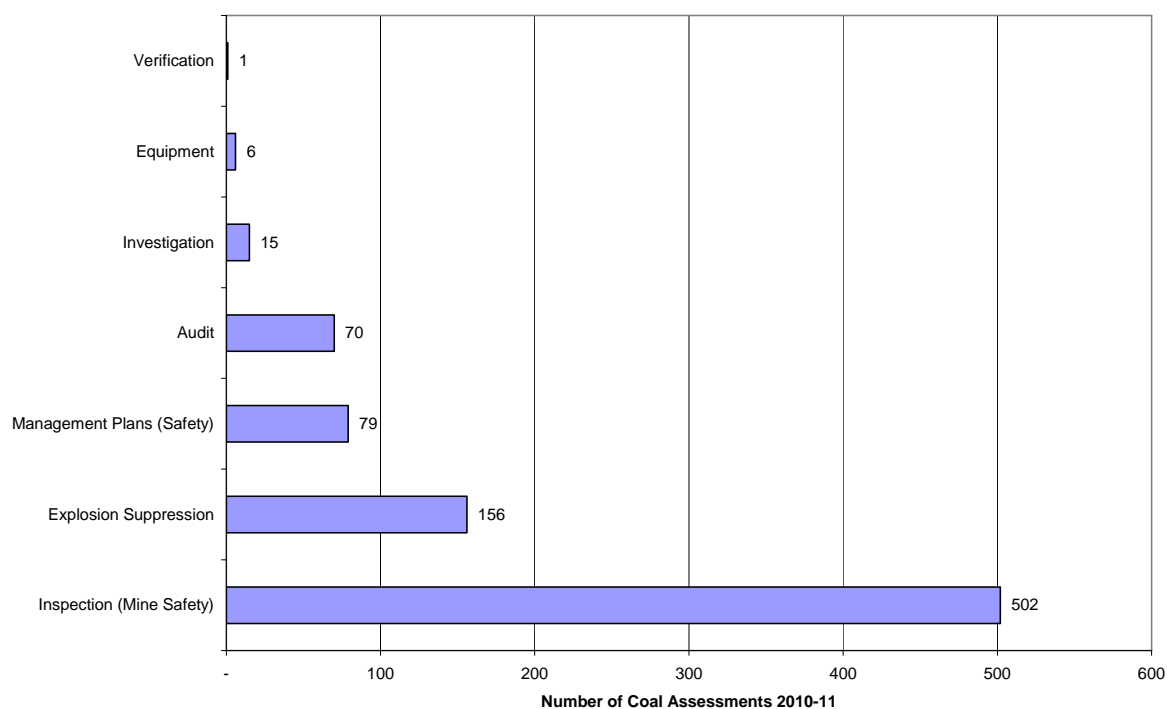
**Figure 128**

Coal Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	520	473	404	310	282	410	517	400	462	464	519	502	5,263
Explosion Suppression	204	223	161	177	143	105	90	91	116	103	159	156	1,728
Audit	66	118	156	184	109	43	224	143	122	187	205	70	1,627
Management Plans (Safety)	419	51	12	39	41	54	96	133	43	54	57	79	1,078
Investigation	4	14	9	4	18	7	17	50	64	40	8	15	250
Airborne Dust	1	2	1	6	47	34	1	2	4	3	1	-	102
Equipment	-	-	-	-	-	24	9	14	5	11	1	6	70
Verification	9	-	2	1	-	-	1	-	-	-	-	1	14
Resource Recovery (Safety)	-	-	-	-	-	1	1	-	-	-	1	-	3
Closure	-	-	-	-	-	1	-	-	-	-	-	-	1
Seminar/Workshop	-	-	-	-	-	-	-	1	-	-	-	-	1
<b>Total</b>	<b>1,223</b>	<b>881</b>	<b>745</b>	<b>721</b>	<b>640</b>	<b>679</b>	<b>956</b>	<b>834</b>	<b>816</b>	<b>862</b>	<b>951</b>	<b>829</b>	<b>10,137</b>

**Figure 129**

Coal Assessments by Event Subtype 2010-11



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



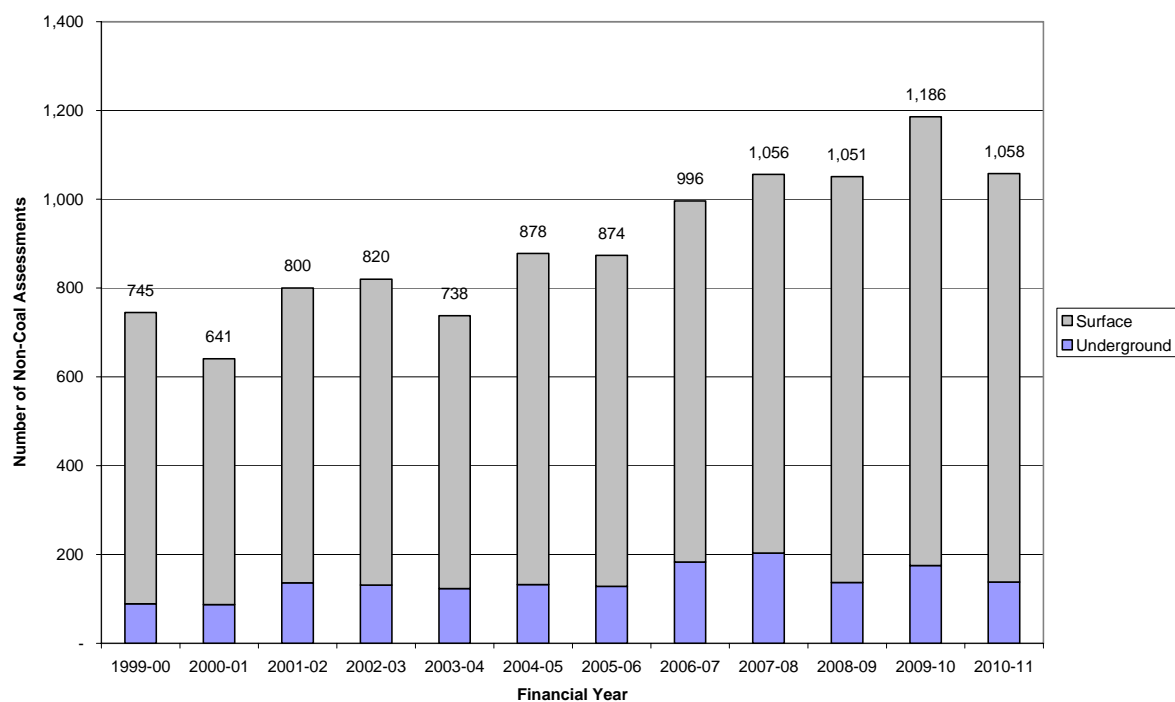
## 5.3 Non-Coal Assessments

### 5.3.1 Non-Coal Assessments by Operation Type

**Figure 130**  
Non-Coal Assessments by Operation Type 1999-00 to 2010-11

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	2010-11	Total
Surface	Metalliferous	36	35	71	63	56	101	73	57	60	63	82	61	758
	Extractives	606	511	588	622	558	644	668	729	787	842	917	839	8,311
	Non-Coal Other	14	8	5	4	1	1	5	27	6	9	12	20	112
	<b>Total</b>	<b>656</b>	<b>554</b>	<b>664</b>	<b>689</b>	<b>615</b>	<b>746</b>	<b>746</b>	<b>813</b>	<b>853</b>	<b>914</b>	<b>1,011</b>	<b>920</b>	<b>9,181</b>
Underground	Metalliferous	81	80	112	104	93	112	111	170	167	126	156	117	1,429
	Extractives	1	1	5	5	8	9	9	12	16	7	10	12	95
	Non-Coal Other	7	6	19	22	22	11	8	1	20	4	9	9	138
	<b>Total</b>	<b>89</b>	<b>87</b>	<b>136</b>	<b>131</b>	<b>123</b>	<b>132</b>	<b>128</b>	<b>183</b>	<b>203</b>	<b>137</b>	<b>175</b>	<b>138</b>	<b>1,662</b>
<b>Total</b>	<b>745</b>	<b>641</b>	<b>800</b>	<b>820</b>	<b>738</b>	<b>878</b>	<b>874</b>	<b>996</b>	<b>1,056</b>	<b>1,051</b>	<b>1,186</b>	<b>1,058</b>	<b>10,843</b>	

**Figure 131**  
Non-Coal Assessments 1999-00 to 2010-11



### 5.3.2 Non-Coal Metalliferous Assessments by Event Subtype

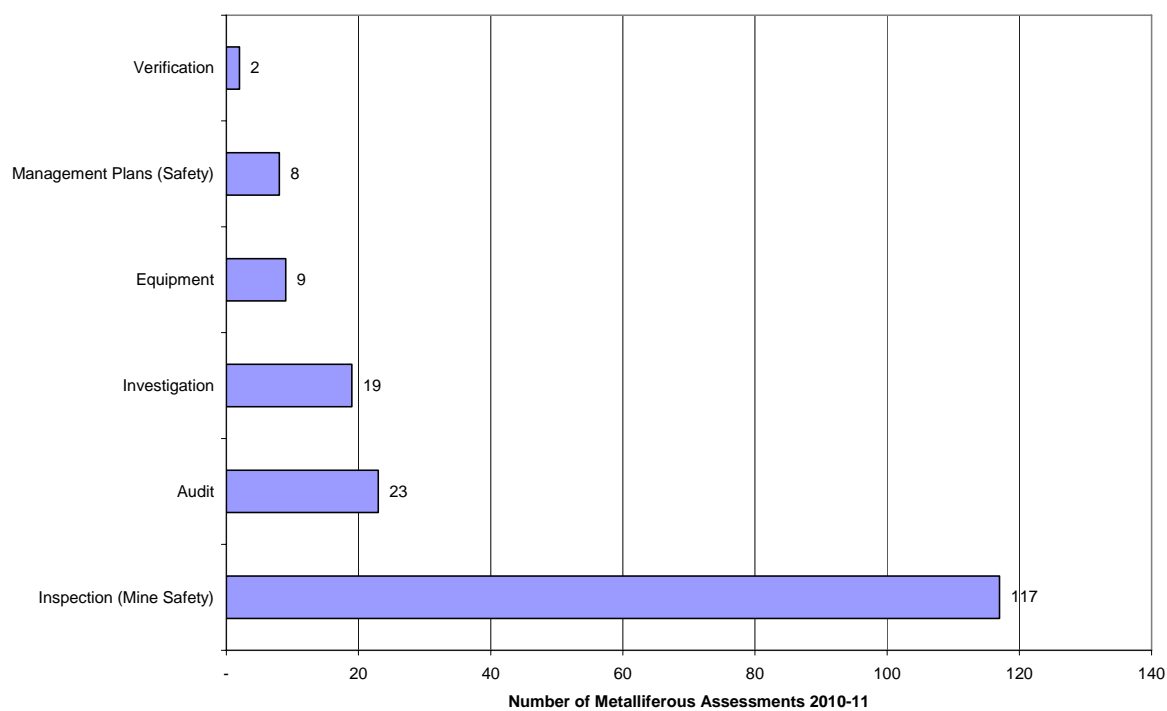
**Figure 132**

Non-Coal Metalliferous Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	85	89	128	125	113	164	134	148	150	143	154	117	1,550
Investigation	16	17	33	21	18	23	16	43	28	21	33	19	288
Audit	5	6	8	10	9	6	24	16	30	18	29	23	184
Verification	6	2	12	7	6	8	5	13	11	4	2	2	78
Management Plans (Safety)	4	1	2	4	3	7	4	3	8	3	10	8	57
Equipment	-	-	-	-	-	2	1	4	-	-	10	9	26
Resource Recovery (Safety)	-	-	-	-	-	3	-	-	-	-	-	-	3
Closure	1	-	-	-	-	-	-	-	-	-	-	-	1
<b>Total</b>	<b>117</b>	<b>115</b>	<b>183</b>	<b>167</b>	<b>149</b>	<b>213</b>	<b>184</b>	<b>227</b>	<b>227</b>	<b>189</b>	<b>238</b>	<b>178</b>	<b>2,187</b>

**Figure 133**

Non-Coal Metalliferous Assessments by Event Subtype 2010-11



*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

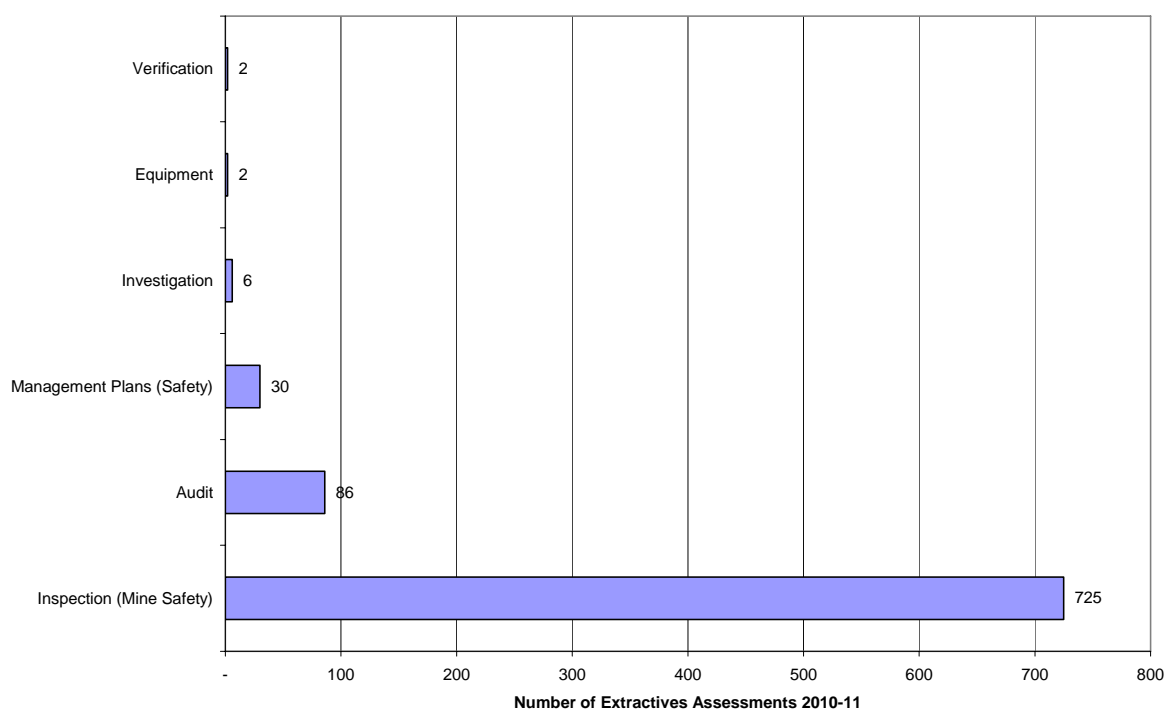
**Figure 134**

Non-Coal Extractives Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	457	464	548	583	482	562	584	664	716	728	720	725	7,233
Audit	2	7	14	8	57	49	34	46	63	86	149	86	601
Verification	129	31	12	10	4	1	8	3	1	4	1	2	206
Management Plans (Safety)	3	-	9	16	9	22	17	10	2	12	45	30	175
Investigation	13	10	10	10	14	13	23	14	13	10	7	6	143
Equipment	3	-	-	-	-	6	4	1	2	3	3	2	24
Airborne Dust	-	-	-	-	-	-	-	-	4	5	-	-	9
Seminar/Workshop	-	-	-	-	-	-	5	-	2	1	-	-	8
Closure	-	-	-	-	-	-	2	3	-	-	2	-	7
<b>Total</b>	<b>607</b>	<b>512</b>	<b>593</b>	<b>627</b>	<b>566</b>	<b>653</b>	<b>677</b>	<b>741</b>	<b>803</b>	<b>849</b>	<b>927</b>	<b>851</b>	<b>8,406</b>

**Figure 135**

Non-Coal Extractives Assessments by Event Subtype 2010-11



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

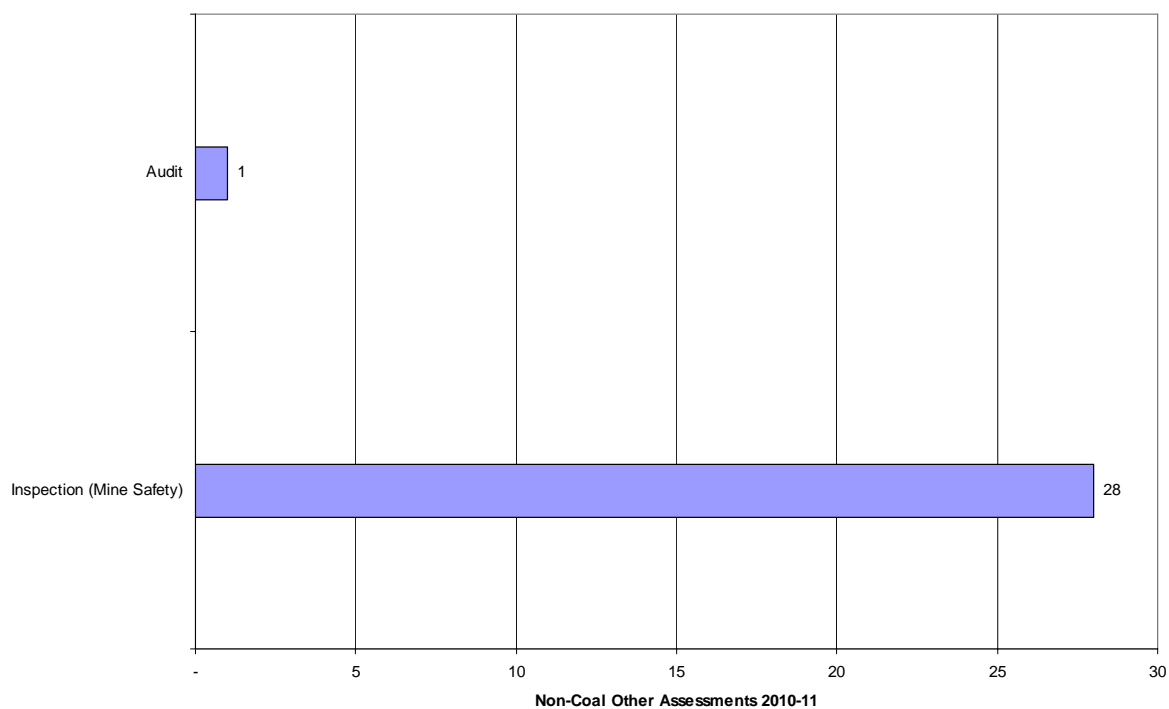
**Figure 136**

Non-Coal Other Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	18	9	20	12	20	10	13	27	24	12	19	28	212
Audit	2	3	3	13	3	-	-	1	2	-	-	1	28
Equipment	-	-	-	-	-	2	-	-	-	-	2	-	4
Investigation	-	2	-	1	-	-	-	-	-	-	-	-	3
Verification	1	-	-	-	-	-	-	-	-	1	-	-	2
Management Plans (Safety)	-	-	1	-	-	-	-	-	-	-	-	-	1
<b>Total</b>	<b>21</b>	<b>14</b>	<b>24</b>	<b>26</b>	<b>23</b>	<b>12</b>	<b>13</b>	<b>28</b>	<b>26</b>	<b>13</b>	<b>21</b>	<b>29</b>	<b>250</b>

**Figure 137**

Non-Coal Other Assessments by Event Subtype 1999-00 to 2010-11



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

## 5.4 Petroleum (Onshore) Assessments

Petroleum assessments recorded in the COMET database appear below. Several additional legacy databases are currently being researched and merged to produce a more comprehensive picture of safety in the onshore petroleum sector from next year, to coincide with expected new legislation.

### 5.4.1 Petroleum (Onshore) Assessments by Event Subtype

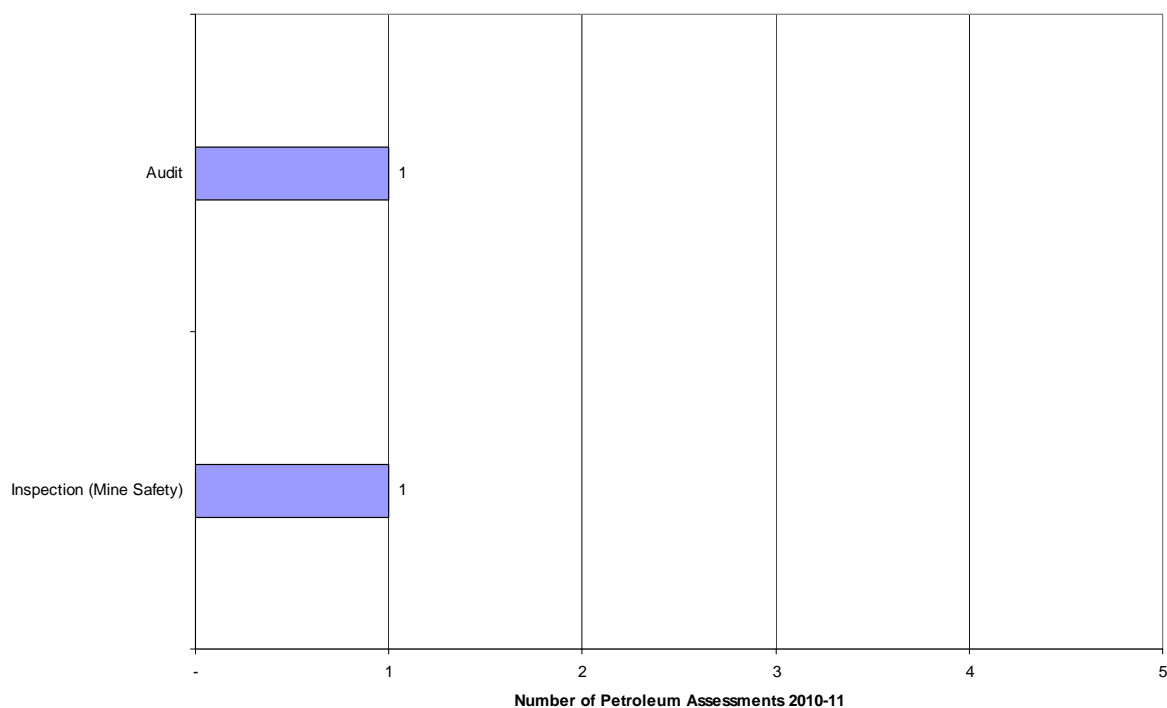
**Figure 138**

Petroleum (Onshore) Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	-	-	-	-	-	-	-	-	-	-	4	1	5
Audit	-	-	-	-	-	-	-	-	-	-	-	1	1
<b>Total</b>	-	-	-	-	-	-	-	-	-	-	4	2	6

**Figure 139**

Petroleum (Onshore) Assessments by Event Subtype 2010-11



## 6 ENFORCEMENT AND ADVICE NOTICES

### 6.1 All Enforcement and Advice Notices

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

The commencement of 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 and advice notices issued.

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

#### 6.1.1 All Enforcement and Advice Notices by Sector

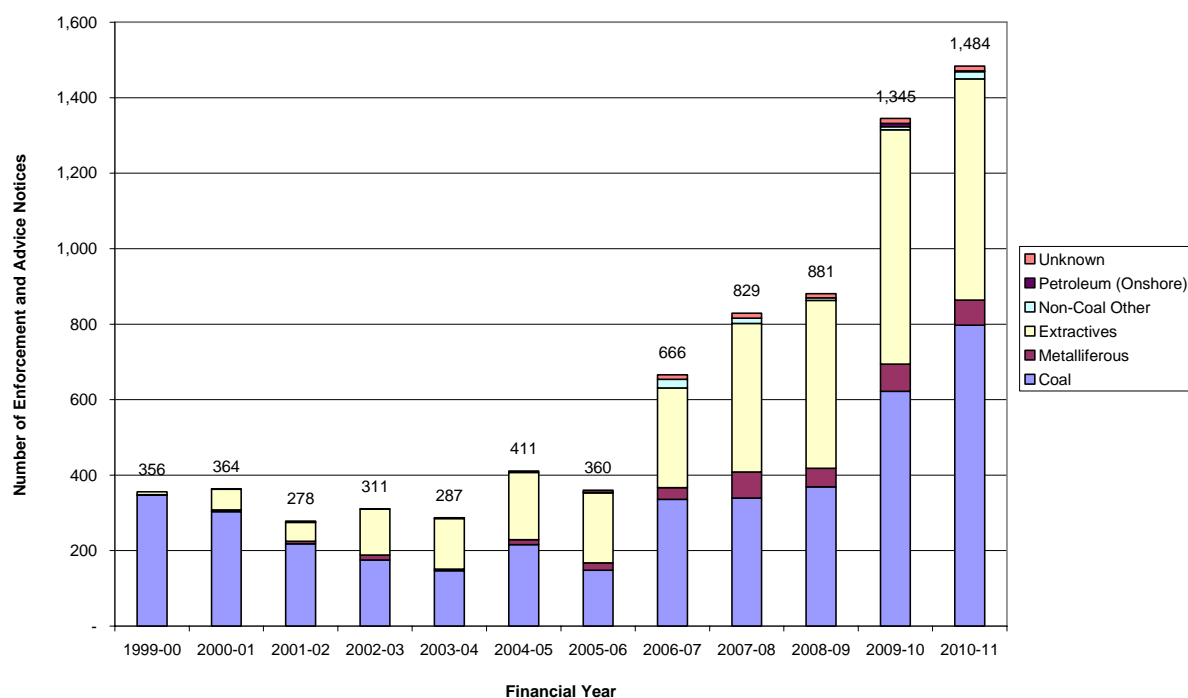
**Figure 140**

All Enforcement and Advice Notices by Sector 1999-00 to 2010-11  
 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	2010-11	Total
Coal	347	303	218	175	147	216	148	336	339	369	622	797	4,017
Metalliferous	1	5	7	13	4	13	20	31	69	49	72	67	351
Extractives	8	55	50	122	134	178	185	264	394	445	621	586	3,042
Non-Coal Other	-	-	1	1	1	-	2	23	14	7	8	19	76
Petroleum (Onshore)	-	-	-	-	-	-	-	-	-	-	9	2	11
Unknown	-	1	2	-	1	4	5	12	13	11	13	13	75
<b>Total</b>	<b>356</b>	<b>364</b>	<b>278</b>	<b>311</b>	<b>287</b>	<b>411</b>	<b>360</b>	<b>666</b>	<b>829</b>	<b>881</b>	<b>1,345</b>	<b>1,484</b>	<b>7,572</b>

**Figure 141**

All Enforcement and Advice Notices by Sector 1999-00 to 2010-11  
 NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09



## 6.1.2 All Enforcement and Advice Notices by Operation Type

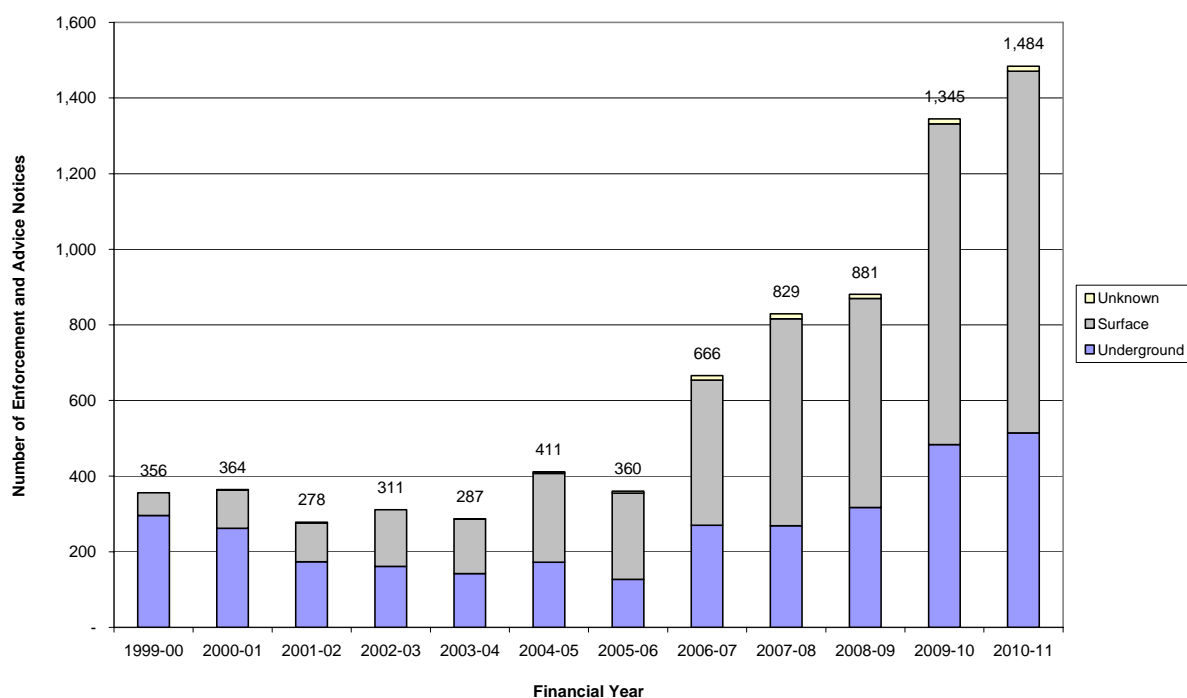
**Figure 142**

All Enforcement and Advice Notices by Operation Type 1999-00 to 2010-11  
 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	2010-11	Total
Underground	296	262	173	161	142	172	127	270	269	317	483	514	3,186
Surface	60	101	103	150	144	235	228	384	547	553	849	957	4,311
Unknown	-	1	2	-	1	4	5	12	13	11	13	13	75
<b>Total</b>	<b>356</b>	<b>364</b>	<b>278</b>	<b>311</b>	<b>287</b>	<b>411</b>	<b>360</b>	<b>666</b>	<b>829</b>	<b>881</b>	<b>1,345</b>	<b>1,484</b>	<b>7,572</b>

**Figure 143**

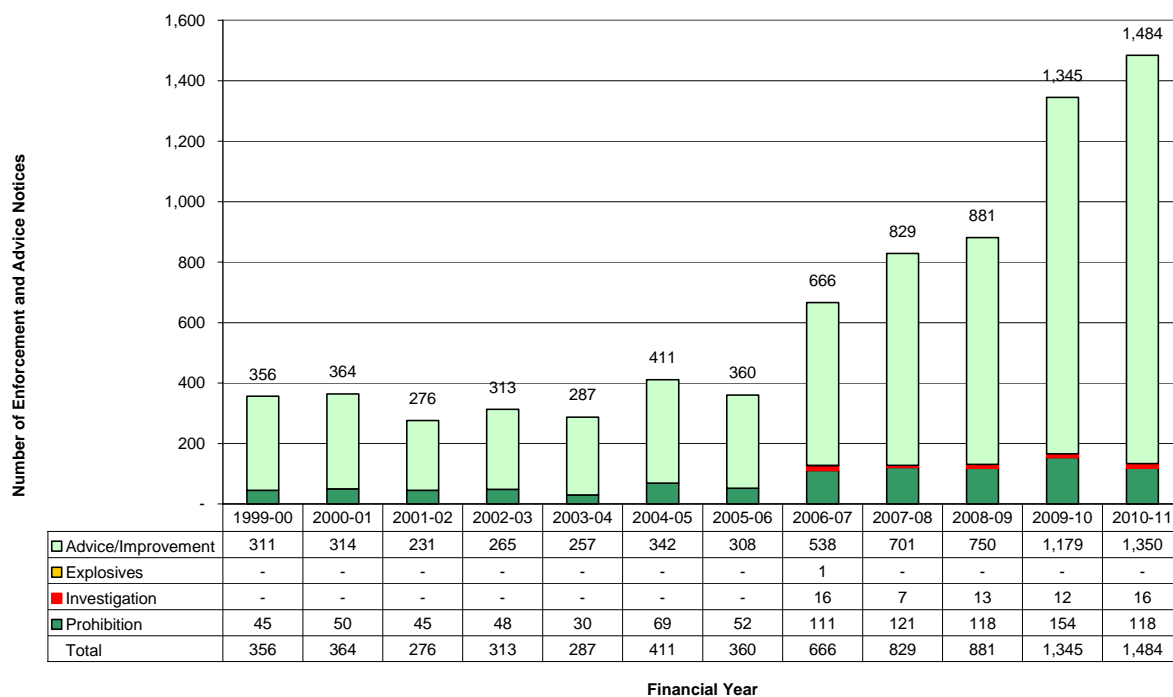
All Enforcement and Advice Notices by Operation Type 1999-00 to 2010-11  
 NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09



### 6.1.3 All Enforcement and Advice Notices by Notice Category

**Figure 144**

All Enforcement and Advice Notices by Notice Category 1999-00 to 2010-11  
 NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09



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



## 6.2 Coal Enforcement and Advice Notices

### 6.2.1 Coal Enforcement and Advice Notices by Operation Type

**Figure 145**

Coal Enforcement and Advice Notices by Operation Type 1999-00 to 2010-11

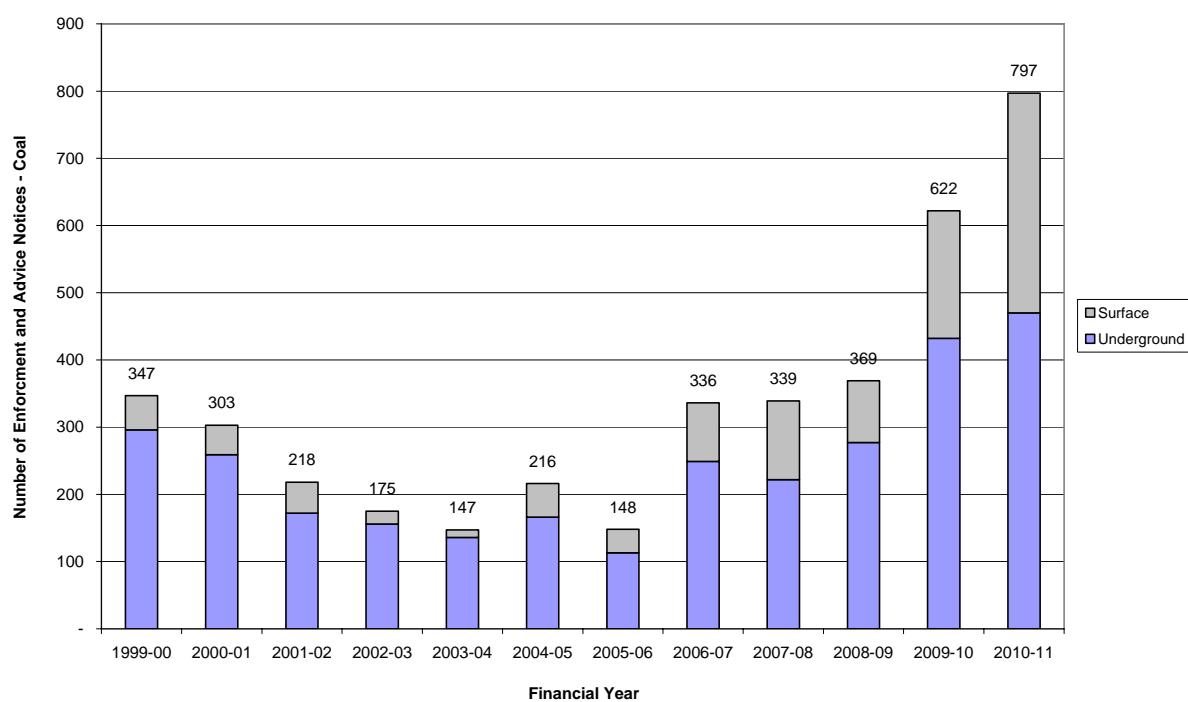
NB CMHSR 2006 commenced mid 2006-07

Operation Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Underground	296	259	172	156	136	166	113	249	222	277	432	470	2,948
Surface	51	44	46	19	11	50	35	87	117	92	190	327	1,069
<b>Total</b>	<b>347</b>	<b>303</b>	<b>218</b>	<b>175</b>	<b>147</b>	<b>216</b>	<b>148</b>	<b>336</b>	<b>339</b>	<b>369</b>	<b>622</b>	<b>797</b>	<b>4,017</b>

**Figure 146**

Coal Enforcement and Advice Notices 1999-00 to 2010-11

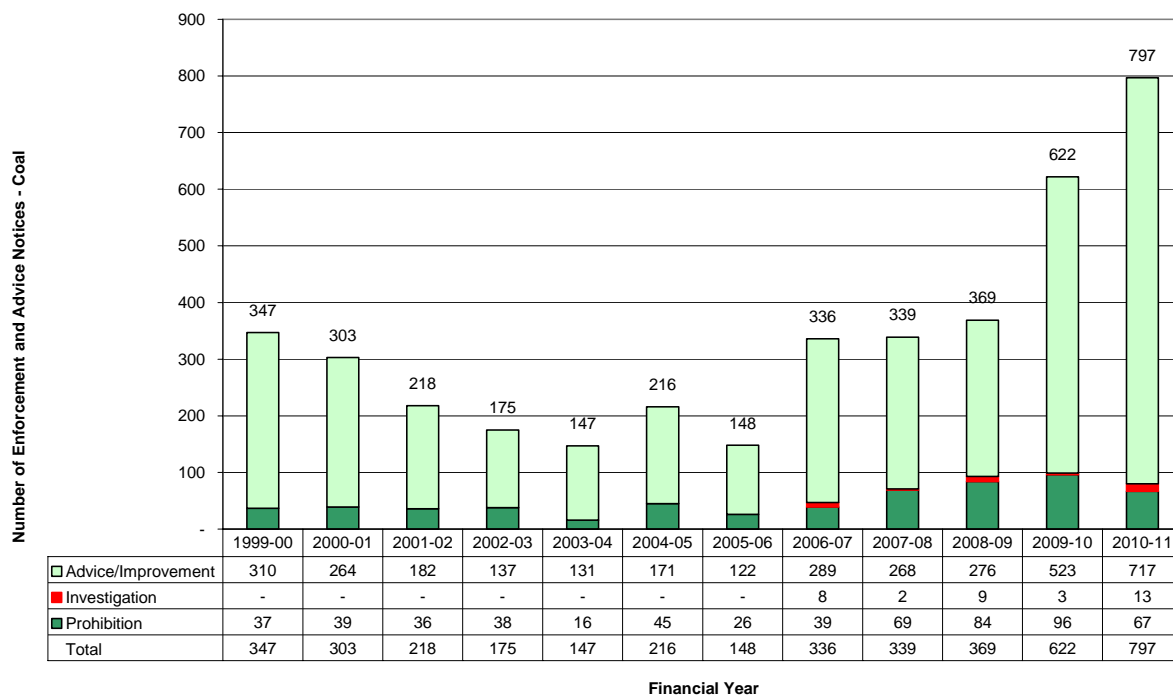
NB CMHSR 2006 commenced mid 2006-07



## 6.2.2 Coal Enforcement and Advice Notices by Notice Category

**Figure 147**

Coal Enforcement and Advice Notices by Notice Category 1999-00 to 2010-11  
 NB CMHSR 2006 commenced mid 2006-07



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

## 6.3 Non-Coal Enforcement and Advice Notices

### 6.3.1 Non-Coal Enforcement and Advice Notices by Operation Type

**Figure 148**

Non-Coal Enforcement and Advice Notices by Operation Type 1999-00 to 2010-11

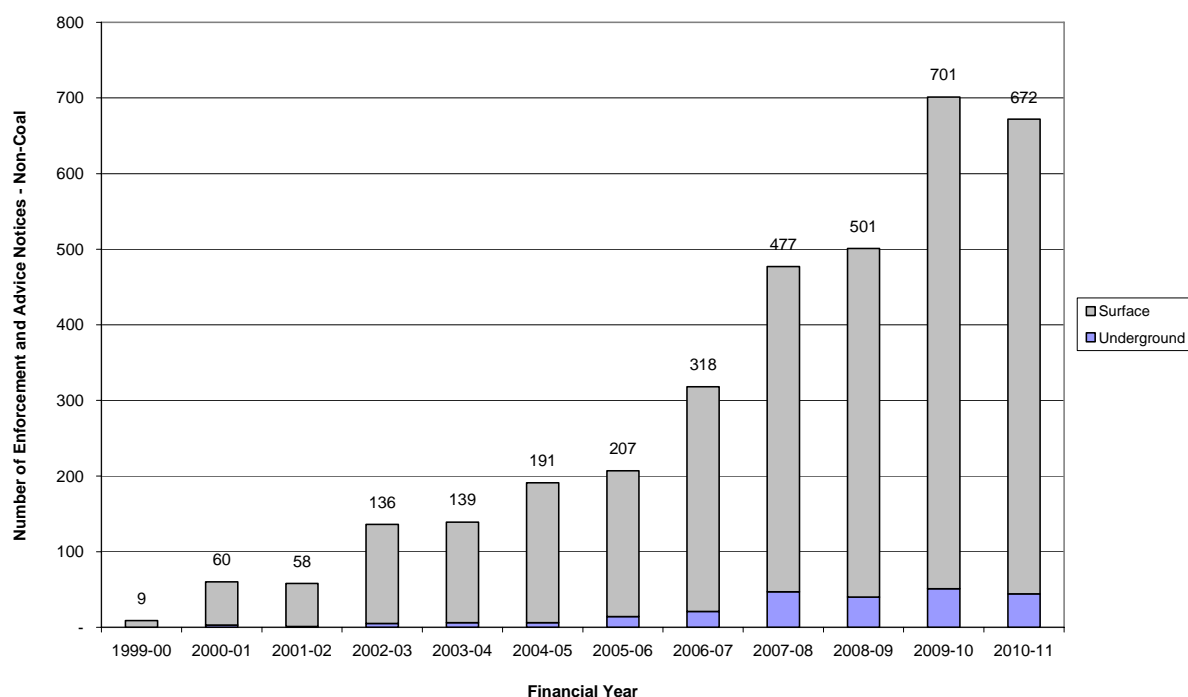
NB MHSR 2007 commenced Q2 2008-09

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	2010-11	Total
Surface	Metalliferous	1	2	6	8	-	9	7	12	27	10	23	28	133
	Extractives	8	55	50	122	132	176	184	262	389	444	619	581	3,022
	Non-Coal Other	-	-	1	1	1	-	2	23	14	7	8	19	76
	<b>Total</b>	<b>9</b>	<b>57</b>	<b>57</b>	<b>131</b>	<b>133</b>	<b>185</b>	<b>193</b>	<b>297</b>	<b>430</b>	<b>461</b>	<b>650</b>	<b>628</b>	<b>3,231</b>
Underground	Metalliferous	-	3	1	5	4	4	13	19	42	39	49	39	218
	Extractives	-	-	-	-	2	2	1	2	5	1	2	5	20
	Non-Coal Other	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>3</b>	<b>1</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>14</b>	<b>21</b>	<b>47</b>	<b>40</b>	<b>51</b>	<b>44</b>	<b>238</b>
<b>Total</b>	<b>9</b>	<b>60</b>	<b>58</b>	<b>136</b>	<b>139</b>	<b>191</b>	<b>207</b>	<b>318</b>	<b>477</b>	<b>501</b>	<b>701</b>	<b>672</b>	<b>3,469</b>	

**Figure 149**

Non-Coal Enforcement and Advice Notices 1999-00 to 2010-11

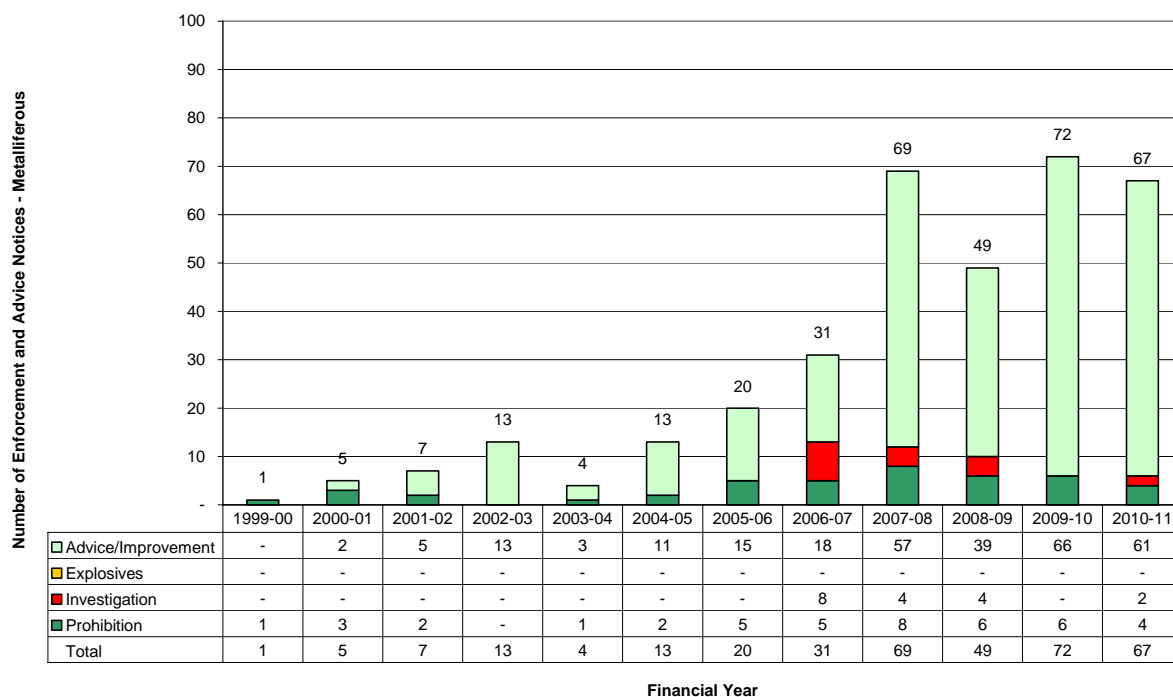
NB MHSR 2007 commenced Q2 2008-09



## 6.3.2 Non-Coal Metalliferous Enforcement and Advice Notices by Notice Category

**Figure 150**

Non-Coal Metalliferous Enforcement and Advice Notices by Notice Category 1999-00 to 2010-11  
 NB MHSR 2007 commenced Q2 2008-09



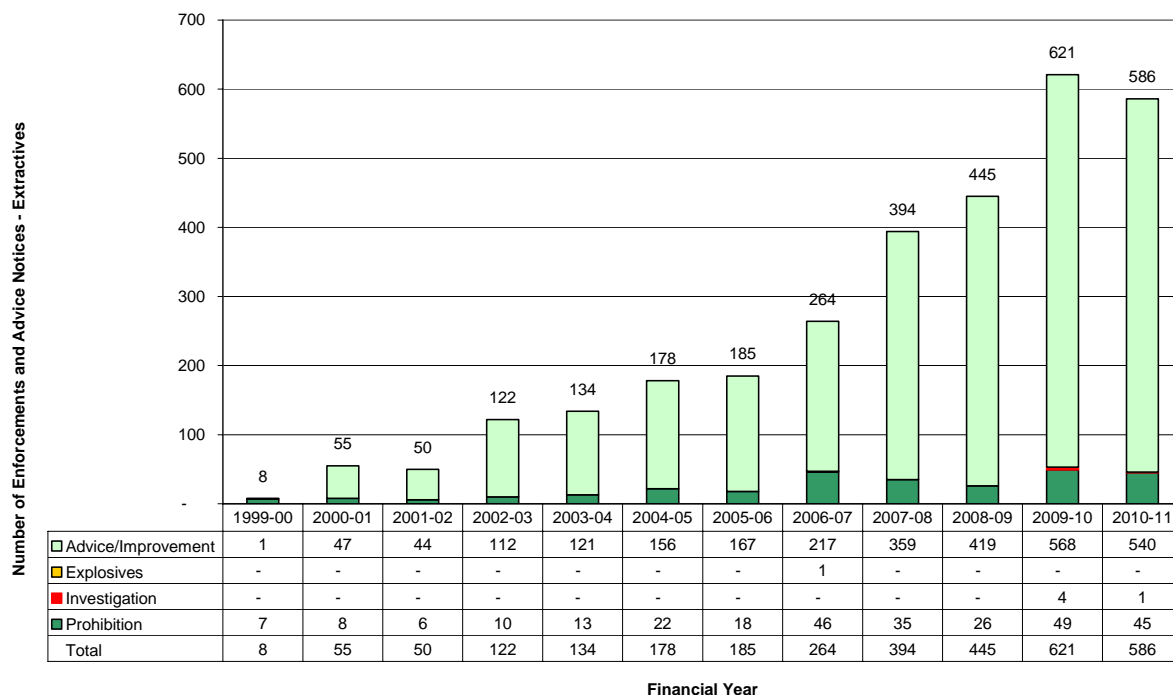
Refer to Appendix A.9 for a more detailed breakdown of Non-Coal Metalliferous Surface and Underground Enforcement and Advice Notices by Notice Category and Type

### 6.3.3 Non-Coal Extractives Enforcement and Advice Notices by Notice Category

**Figure 151**

Non-Coal Extractives Enforcement and Advice Notices by Notice Category 1999-00 to 2010-11

NB MHSR 2007 commenced Q2 2008-09



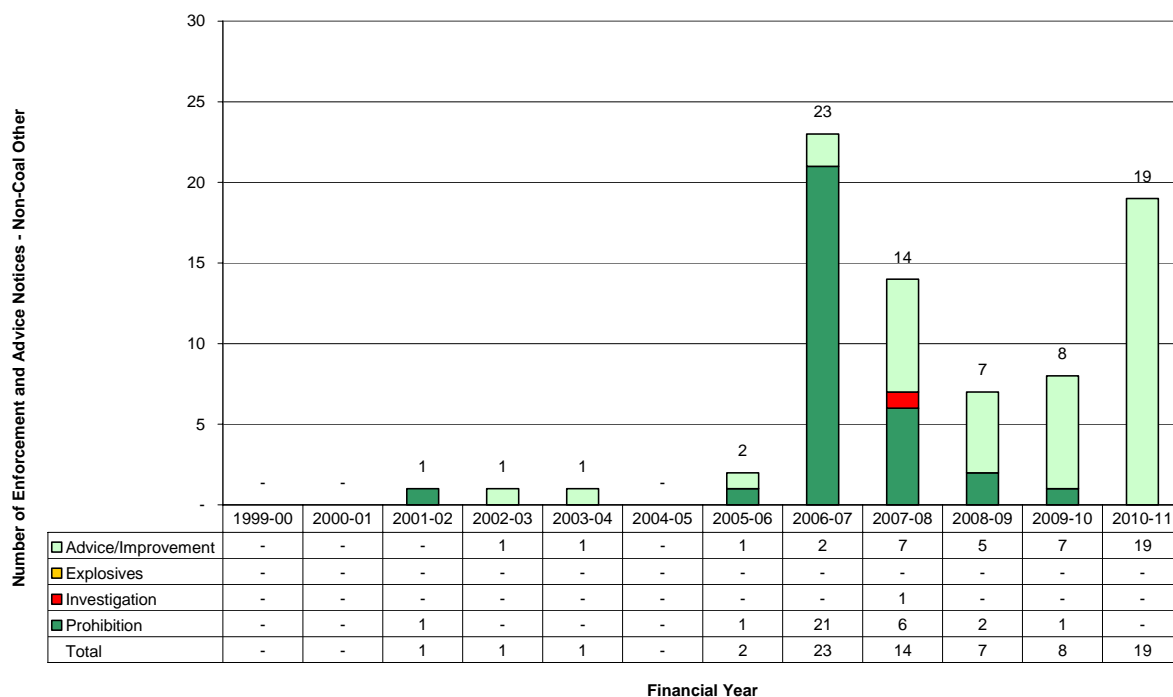
Refer to Appendix A.9 for a more detailed breakdown of Non-Coal Extractives Surface and Underground Enforcement and Advice Notices by Notice Category and Type

### 6.3.4 Non-Coal Other Enforcement and Advice Notices by Notice Category

**Figure 152**

Non-Coal Other Enforcement and Advice Notices by Notice Category 1999-00 to 2010-11

NB MHSR 2007 commenced Q2 2008-09



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

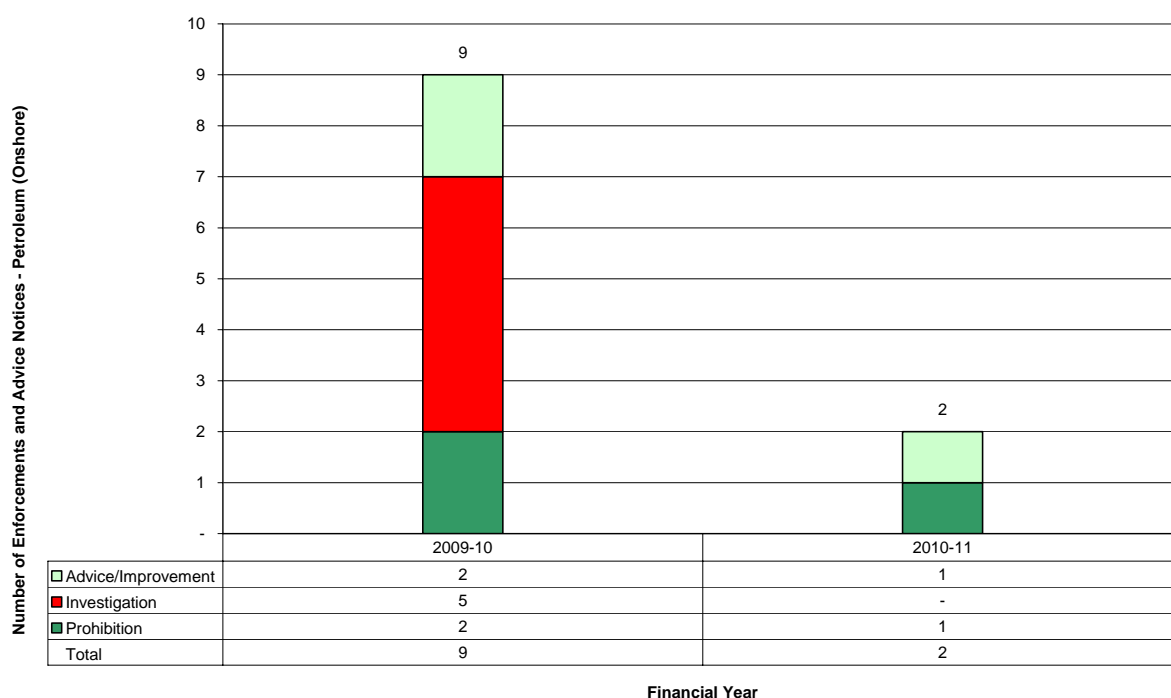
## 6.4 Petroleum (Onshore) Enforcement and Advice Notices

Petroleum enforcement and advice notices recorded in the COMET database appear below. Several additional legacy databases are currently being researched and merged to produce a more comprehensive picture of safety in the onshore petroleum sector from next year, to coincide with expected new legislation.

### 6.4.1 Petroleum (Onshore) Enforcement and Advice Notices by Notice Category

**Figure 153**

Petroleum (Onshore) Enforcement and Advice Notices by Notice Category 2009-10 to 2010-11



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

# APPENDIX A ADDITIONAL FIGURES

## Appendix A.1 Incidents

Figure 154

Coal Surface Incidents by Incident Type and Subtype 1999-00 to 2010-11

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	2010-11	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	
		<b>Total</b>	<b>38</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>43</b>
	*Serious Bodily Injury CMRA	*Fracture(s)	-	-	2	9	2	-	-	-	-	-	-	-	-	13
		*Dislocation	-	-	1	-	1	-	-	-	-	-	-	-	-	2
		*Burns requiring hospital treatment	-	-	1	-	-	-	-	-	-	-	-	-	-	1
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>4</b>	<b>9</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>16</b>
	<b>*CMRA Total</b>	<b>38</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>59</b>	
	*CMGNR	*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	-	-	-	-	5
*Fatality			-	-	-	-	1	-	-	-	-	-	-	-	1	
*Minor injury			-	-	-	-	-	-	-	1	-	-	-	-	1	
*MTI with NO Lost Time			1	-	-	-	-	-	-	-	-	-	-	-	1	
<b>Total</b>			<b>12</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>7</b>	<b>10</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>53</b>
*Notifiable Incidents DCCP CMGNR 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	
		<b>Total</b>	<b>14</b>	<b>12</b>	<b>11</b>	<b>5</b>	<b>8</b>	<b>8</b>	<b>15</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>76</b>
<b>*CMGNR Total</b>	<b>26</b>	<b>18</b>	<b>16</b>	<b>9</b>	<b>12</b>	<b>15</b>	<b>25</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>129</b>		
*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)(j)	-	-	-	1	-	1	1	-	-	-	-	-	-	3
		*Injury from Blasting 16(1)(e)	-	-	-	1	1	-	-	-	-	-	-	-	-	2
	<b>Total</b>	<b>49</b>	<b>73</b>	<b>54</b>	<b>40</b>	<b>64</b>	<b>39</b>	<b>67</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>398</b>	
<b>*CMOCR Total</b>	<b>49</b>	<b>73</b>	<b>54</b>	<b>40</b>	<b>64</b>	<b>39</b>	<b>67</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>398</b>		
CMHS	CMHSR 2006 CI 55	55(h) collision on surface involving vehicle or mobile plant with gross weight > 2 tonnes	-	-	-	-	-	-	-	30	71	60	67	89	317	
		55(i) loss of control of heavy vehicle or large plant on surface	-	-	-	-	-	-	-	15	11	22	25	22	95	
		55(j) overturning of heavy vehicle or large plant on surface	-	-	-	-	-	-	-	4	10	14	10	16	54	
		55(c)(vi) unintended activation / movement of vehicles or machinery	-	-	-	-	-	-	-	3	5	5	11	9	33	



Coal Surface Incidents by Incident Type and Subtype 1999-00 to 2010-11 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	2010-11	Total		
		55(c)(iv) failure of strata / slope stability control measures	-	-	-	-	-	-	-	1	5	6	3	6	21		
		55(d)(i) involving electricity, person suffers injury, receives treatment from health professional or unable to attend work	-	-	-	-	-	-	-	1	6	4	7	1	19		
		55(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	-	-	-	-	-	-	-	-	1	1	2	7	6	17	
		55(c)(i) damage to any plant / building / structure	-	-	-	-	-	-	-	-	-	3	3	3	6	15	
		55(c)(iii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	-	5	3	-	1	9	
		55(k) ejection of fly rock so that it falls outside blast exclusion zone or near people	-	-	-	-	-	-	-	-	-	2	-	3	1	6	
		55(g) abnormal inrush of fluid	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
		<b>Total</b>	-	-	-	-	-	-	-	-	55	119	120	136	157	587	
	CMHSR 2006 CI 56(1)		56(1)(n) uncontrolled explosion, fire / misfire of explosives in surface parts	-	-	-	-	-	-	-	35	80	94	88	102	399	
			56(1)(p) unintended activation or movement of vehicles/machinery, no immediate threat to life or incapacitating injury	-	-	-	-	-	-	-	-	20	64	83	83	142	392
			56(1)(e) contact of person with energised electrical item supplied above extra low voltage	-	-	-	-	-	-	-	-	3	6	8	13	15	45
			56(1)(o) escape of fluid under pressure that could place any person at risk	-	-	-	-	-	-	-	-	-	4	4	8	5	21
			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	-	1	3
			56(1)(h) unplanned fall of roof / roof sides, impedes passage / disrupts mine ventilation / extends outside bolted zone	-	-	-	-	-	-	-	-	-	1	-	-	1	2
	<b>Total</b>	-	-	-	-	-	-	-	-	62	155	191	192	266	866		
	CMHSR 2006 CI 57		57(c) the unintended activation or movement of machinery (other than a vehicle)	-	-	-	-	-	-	-	-	-	1	5	4	10	
	<b>Total</b>		-	-	-	-	-	-	-	-	-	-	1	5	4	10	
	Non Spec Acc Ending in Fat/Injury		Notifiable Injury/Outcome	-	-	-	-	-	-	-	31	38	68	56	57	250	
	<b>Total</b>		-	-	-	-	-	-	-	-	31	38	68	56	57	250	
	<b>CMHS Total</b>			-	-	-	-	-	-	-	148	312	380	389	484	1,713	

Coal Surface Incidents by Incident Type and Subtype 1999-00 to 2010-11 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	2010-11	Total	
Explosives	Explosives Regulation 2005	Loss or theft of explosives or explosive precursors Cl 39	-	-	-	-	-	-	-	1	-	-	-	-	1	
		<b>Total</b>	-	-	-	-	-	-	-	-	1	-	-	-	-	1
	<b>Explosives Total</b>		-	-	-	-	-	-	-	1	-	-	-	-	-	1
N/A	Complaint	Mine Employee Complaint	1	-	-	-	1	-	-	-	1	-	-	-	3	
		Other	-	-	-	-	-	-	1	-	-	-	-	-	1	
		<b>Total</b>	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	-	-	2	12
		Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	2	2	-	1	-	2	-	2	-	-	-	1	1	11
		Other	2	-	-	-	-	1	-	-	1	-	-	-	-	4
		High wall/Pit wall	1	-	-	1	-	-	-	-	-	-	-	1	-	3
		Explosive dusts such as coal, sulphide dust	-	-	-	-	-	-	-	1	-	1	-	-	-	2
		Fixed mechanical equipment such as conveyors, crushers, screens	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 <sub>2</sub> , CH <sub>4</sub>	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	-	-	-	-	-	-	-	-	-	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
		<b>Total</b>	7	3	3	5	8	5	2	3	3	3	1	2	4	46
	Unknown	5	1	16	8	-	-	-	-	-	-	-	-	-	30	
	<b>Total</b>	5	1	16	8	-	-	-	-	-	-	-	-	-	30	
	<b>N/A Total</b>	13	4	19	13	9	5	3	3	4	1	2	4	4	80	
<b>Coal Surface Incidents Total</b>			126	100	93	71	88	59	95	172	316	381	391	488	2,380	

**Figure 155**

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2010-11

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	2010-11	Total	
*CMRA	*1984 Dangerous Occurrence O/C	*Outbreak of fire 6(a) CMRA OC	-	2	-	-	-	-	-	-	-	-	-	-	2	
		<b>Total</b>	-	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
	<b>Total</b>	<b>22</b>	<b>8</b>	-	-	-	-	-	-	-	-	-	-	-	30	
	*Fatality	*Not Applicable	-	-	-	-	-	1	-	-	-	-	-	-	-	1
		<b>Total</b>	-	-	-	-	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	
<b>Total</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>11</b>	<b>11</b>	-	-	-	-	-	-	-	-	27		
<b>*CMRA Total</b>		<b>22</b>	<b>12</b>	<b>3</b>	<b>11</b>	<b>12</b>	-	-	-	-	-	-	-	-	<b>60</b>	
*Non Spec Acc Ending in Fat/Injury	*SBI/Sl	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	
	<b>Total</b>	<b>28</b>	<b>32</b>	<b>26</b>	<b>16</b>	<b>28</b>	<b>22</b>	<b>19</b>	<b>28</b>	-	-	-	-	-	<b>199</b>	
*CMGNR	*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
	<b>Total</b>	<b>4</b>	<b>8</b>	<b>9</b>	<b>4</b>	-	-	-	<b>2</b>	-	-	-	-	-	<b>27</b>	
<b>*CMGNR Total</b>		<b>32</b>	<b>40</b>	<b>35</b>	<b>20</b>	<b>28</b>	<b>22</b>	<b>19</b>	<b>30</b>	-	-	-	-	-	<b>226</b>	
*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
	<b>Total</b>	<b>24</b>	<b>64</b>	<b>70</b>	<b>61</b>	<b>39</b>	<b>30</b>	<b>22</b>	<b>12</b>	-	-	-	-	-	<b>322</b>	
	*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	1	-	-	-	-	-	-	-	-	5		
<b>Total</b>	<b>35</b>	<b>66</b>	<b>68</b>	<b>54</b>	<b>12</b>	-	-	-	-	-	-	-	-	<b>235</b>		

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2010-11 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	2010-11	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	
		<b>Total</b>	-	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	
		<b>Total</b>	-	-	2	12	47	97	116	59	-	-	-	-	333	
	<b>*CMUGR Total</b>			<b>59</b>	<b>131</b>	<b>147</b>	<b>128</b>	<b>136</b>	<b>165</b>	<b>214</b>	<b>114</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,094</b>
	CMHS	CMHSR 2006 CI 55	55(l) failure of any part of powered winding system or damage to shaft or shaft equipment	-	-	-	-	-	-	-	14	12	31	54	46	157
			55(e) uncontrolled explosion / fire / misfire of explosives in underground parts	-	-	-	-	-	-	-	-	4	25	37	29	20
55(h) collision on surface involving vehicle or mobile plant with gross weight > 2 tonnes			-	-	-	-	-	-	-	-	4	6	16	19	27	72
55(c)(vi) unintended activation / movement of vehicles or machinery			-	-	-	-	-	-	-	-	6	14	6	15	5	46
55(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person			-	-	-	-	-	-	-	-	7	8	10	7	10	42
55(d)(i) involving electricity, person suffers injury, receives treatment from health professional or unable to attend work			-	-	-	-	-	-	-	-	3	7	13	7	8	38
55(j) overturning of heavy vehicle or large plant on surface			-	-	-	-	-	-	-	-	-	5	6	5	3	19
55(i) loss of control of heavy vehicle or large plant on surface			-	-	-	-	-	-	-	-	4	3	2	1	2	12
55(c)(iv) failure of strata / slope stability control measures			-	-	-	-	-	-	-	-	1	3	2	1	3	10
55(c)(ii) imminent risk of explosion or fire			-	-	-	-	-	-	-	-	2	1	2	3	-	8
55(c)(i) damage to any plant / building / structure			-	-	-	-	-	-	-	-	2	1	-	1	1	5
55(f) uncontrolled outburst of gas			-	-	-	-	-	-	-	-	-	-	1	2	-	3
55(g) abnormal inrush of fluid			-	-	-	-	-	-	-	-	-	-	1	-	2	3
<b>Total</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>47</b>	<b>85</b>	<b>127</b>	<b>144</b>	<b>127</b>	<b>530</b>	

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2010-11 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	2010-11	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	925	3,468		
		56(1)(m) in-service failure of explosion-protection characteristics	-	-	-	-	-	-	-	-	57	137	322	477	344	1,337	
		56(1)(o) escape of fluid under pressure that could place any person at risk	-	-	-	-	-	-	-	-	236	357	278	202	184	1,257	
		56(1)(p) unintended activation or movement of vehicles/machinery, no immediate threat to life or incapacitating injury	-	-	-	-	-	-	-	-	69	121	164	217	190	761	
		56(1)(l) event in hazardous zone, underground parts, electric arc observed or leaves visible evidence on electric cable	-	-	-	-	-	-	-	-	49	69	76	82	71	347	
		56(1)(h) unplanned fall of roof / roof sides, impedes passage / disrupts mine ventilation / extends outside bolted zone	-	-	-	-	-	-	-	-	20	27	29	24	23	123	
		56(1)(n) uncontrolled explosion, fire / misfire of explosives in surface parts	-	-	-	-	-	-	-	-	-	12	3	10	13	38	
		56(1)(e) contact of person with energised electrical item supplied above extra low voltage	-	-	-	-	-	-	-	-	8	10	3	8	7	36	
		56(1)(j) burial of machinery, cannot be recovered under own tractive effort	-	-	-	-	-	-	-	-	-	1	4	1	4	9	19
		56(1)(f) initial self-heating of coal / other material, heating of coal underground parts resulting in withdrawal of people	-	-	-	-	-	-	-	-	-	-	4	3	1	8	
		56(1)(i) windblast results in injuries requiring treatment by medical practitioner	-	-	-	-	-	-	-	-	-	1	-	-	2	3	
		561d	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
		<b>Total</b>	-	-	-	-	-	-	-	-	-	<b>727</b>	<b>1,392</b>	<b>1,686</b>	<b>1,823</b>	<b>1,769</b>	<b>7,399</b>
Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	-	-	184	446	369	378	372	1,749		
<b>Total</b>	-	-	-	-	-	-	-	-	-	<b>184</b>	<b>446</b>	<b>369</b>	<b>378</b>	<b>372</b>	<b>1,749</b>		
<b>CMHS Total</b>	-	-	-	-	-	-	-	-	-	<b>958</b>	<b>1,923</b>	<b>2,182</b>	<b>2,345</b>	<b>2,268</b>	<b>9,678</b>		
N/A	Complaint	Mine Employee Complaint	2	-	1	-	-	-	-	-	-	1	-	1	5		
		Other	2	1	-	-	-	1	1	-	-	-	-	-	5		
		Public Complaint	1	-	-	-	-	-	-	-	-	1	-	-	-	2	
		<b>Total</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>12</b>	
	High Potential Incident	Electrical energy from apparatus such as cables, transformers, switch gear, connections	2	1	4	4	5	3	3	5	2	1	-	1	31		
Mining equipment such as continuous miners, excavators, drills, shovels		4	1	1	2	2	6	1	-	1	-	-	-	18			
Other		-	-	1	3	1	4	-	1	-	1	1	1	13			
	Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	5	2	1	-	-	1	1	-	2	-	-	-	12			

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2010-11 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	2010-11	Total	
N/A	High Potential Incident	Hydraulic pressure from pump stations & reticulation or equipment	-	1	-	1	1	1	2	2	1	-	-	-	9	
		Explosive gases such as H <sub>2</sub> , CH <sub>4</sub>	-	1	-	1	2	-	-	-	-	2	-	1	1	8
		Fixed mechanical equipment such as conveyors, crushers, screens	1	3	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
		Floor	-	-	-	-	-	-	-	-	-	-	-	-	1	1
		Liquid chemicals that may effect health such as cleaners, oils/lubes, solvents, degreasers	-	-	-	-	-	-	-	-	-	-	-	1	-	1
		Other gases with health effects such as	-	-	-	-	-	-	1	-	-	-	-	-	-	1
		Pneumatic pressure from compressor stations & reticulation or equipment	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		Roof/back	-	-	-	-	-	-	1	-	-	-	-	-	-	1
		Spontaneous combustion such as coal	1	-	-	-	-	-	-	-	-	-	-	-	-	1
		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
<b>Total</b>			17	11	11	13	15	19	10	9	9	4	6	4	128	
UNKNOWN	Unknown		8	2	23	9	-	-	-	-	-	-	-	-	42	
	<b>Total</b>		8	2	23	9	-	-	-	-	-	-	-	-	42	
<b>N/A Total</b>			30	14	35	22	15	20	11	9	10	5	6	5	182	
<b>Coal Underground Incidents Total</b>			143	197	220	181	191	207	244	1,111	1,933	2,187	2,351	2,273	11,240	

**Figure 156**

Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 1999-00 to 2010-11

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	2010-11	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
		<b>Total</b>	<b>19</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
	*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 a uncontrolled manner	-	-	1	-	-	-	-	-	-	-	-	-	-	1
	<b>Total</b>	<b>5</b>	<b>10</b>	<b>17</b>	-	-	-	-	-	-	-	-	-	-	-	<b>32</b>
	*Serious Injury MIA	*Fracture(s)	-	-	-	2	2	-	-	-	-	-	-	-	-	4
		*Asphyxia	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		*Dislocation	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		<b>Total</b>	-	-	-	<b>2</b>	<b>4</b>	-	-	-	-	-	-	-	-	<b>6</b>
	*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		
<b>Total</b>	-	-	<b>6</b>	<b>17</b>	<b>16</b>	<b>17</b>	<b>17</b>	<b>24</b>	<b>14</b>	<b>12</b>	-	-	-	-	<b>106</b>	

Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 1999-00 to 2010-11 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	2010-11	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	
		<b>Total</b>	<b>9</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>24</b>	
<b>*MIA Total</b>			<b>33</b>	<b>12</b>	<b>23</b>	<b>20</b>	<b>21</b>	<b>18</b>	<b>27</b>	<b>19</b>	<b>13</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>187</b>	
Explosives	Explosives Regulation 2005	Serious Incidents involving explosives Cl 75	-	-	-	-	-	-	-	1	-	-	-	-	1	
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	
<b>Explosives Total</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	
MHS	MHSR 2007 Cl 145	145(e) uncontrolled explosion or fire	-	-	-	-	-	-	-	-	-	15	17	13	45	
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	-	2	3	8	13
		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	3	12
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	-	-	-	-	1	6	2	9
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	-	-	-	-	1	3	4	8
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	-	-	-	-	1	4	2	7
		145(j) the loss of control of a vehicle or other machinery at the mine	-	-	-	-	-	-	-	-	-	-	-	2	3	5
		145(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	-	-	-	-	2	2
		145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	-	-	-	-	1	-	-	1
		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
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>27</b>	<b>41</b>	<b>37</b>	<b>105</b>
Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	-	3	7	5	15	
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>7</b>	<b>5</b>	<b>15</b>	
<b>MHS Total</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>30</b>	<b>48</b>	<b>42</b>	<b>120</b>		
N/A	Complaint	Mine Employee Complaint	-	2	1	-	2	3	1	-	3	2	6	-	20	
		Public Complaint	-	-	1	-	2	3	1	-	1	-	1	1	10	
		Other	-	-	-	-	1	1	3	-	2	-	-	-	7	
	<b>Total</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>5</b>	<b>7</b>	<b>5</b>	<b>-</b>	<b>6</b>	<b>2</b>	<b>7</b>	<b>1</b>	<b>37</b>		
	High Potential Incident	Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	-	2	3	1	4	8	3	4	4	1	4	2	-	32
		Electrical energy from apparatus such as cables, transformers, switch gear, connections	1	-	1	1	2	-	3	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 2010-11 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	2010-11	Total
		Mining equipment such as continuous miners, excavators, drills, shovels	-	-	-	-	-	2	-	1	2	2	-	1	8
		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 a 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 <sub>2</sub> , CH <sub>4</sub>	-	-	-	1	-	-	-	-	-	-	-	-	1
		<b>Total</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>8</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>17</b>	<b>8</b>	<b>6</b>	<b>1</b>	<b>93</b>
	<b>UNKNOWN</b>	UNKNOWN	2	-	-	-	-	-	-	-	-	-	-	-	2
		<b>Total</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>
		<b>N/A Total</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>13</b>	<b>21</b>	<b>12</b>	<b>14</b>	<b>23</b>	<b>10</b>	<b>13</b>	<b>2</b>	<b>132</b>
	<b>Non-Coal Metalliferous Surface Incidents Total</b>		<b>38</b>	<b>18</b>	<b>30</b>	<b>26</b>	<b>34</b>	<b>39</b>	<b>39</b>	<b>34</b>	<b>36</b>	<b>41</b>	<b>61</b>	<b>44</b>	<b>440</b>

**Figure 157**

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 1999-00 to 2010-11

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	2010-11	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
		<b>Total</b>	<b>34</b>	<b>6</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>43</b>
	*Fatality	*Not Applicable	-	-	-	1	-	-	-	-	-	-	-	-	-	1
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>
	*Minor Accident MIA	*Lost Time Injury	-	-	-	3	-	-	-	-	-	-	-	-	-	3
		*MTI with NO Lost Time	-	-	1	1	-	-	-	-	-	-	-	-	-	2
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5</b>
	*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	
	<b>Total</b>	<b>16</b>	<b>52</b>	<b>35</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>104</b>	
*Serious Injury MIA	*Fracture(s)	-	-	3	1	4	-	-	-	-	-	-	-	-	8	
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>1</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8</b>	
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 2010-11  
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	2010-11	Total	
*MIA	*Dangerous Incident	*Mobile Plant - general transport/traffic	-	1	1	3	2	4	13	5	2	2	-	-	33	
		*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	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	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
	<b>Total</b>			-	4	31	49	57	53	64	49	27	4	-	-	338
	*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	
<b>Total</b>		60	7	6	1	3	3	8	13	8	3	-	-	112		
<b>*MIA Total</b>		110	69	79	57	64	56	72	62	35	7	-	-	611		
Explosives	Explosives Regulation 2005	Serious Incidents involving explosives CI 75	-	-	-	-	-	-	-	1	-	-	-	-	1	
	<b>Explosives Total</b>		-	-	-	-	-	-	-	1	-	-	-	-	1	
MHS	MHSR 2007 CI 145	145(e) uncontrolled explosion or fire	-	-	-	-	-	-	-	-	-	22	28	24	74	
		145(j) loss of control of vehicle or other machinery	-	-	-	-	-	-	-	-	-	11	12	10	33	
		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	28	
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	4	7	7	18	
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	-	-	-	3	5	8	16	
		145(p) burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	2	6	5	13	
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	-	-	-	4	5	3	12	
		145(m) failure of any part of powered winding system or damage to shaft or shaft equipment	-	-	-	-	-	-	-	-	-	4	4	1	9	
145(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	-	-	-	-	-	-	-	-	-	3	2	2	7			

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 1999-00 to 2010-11  
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	2010-11	Total		
MHS	MHSR 2007 CI 145	145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	-	-	-	1	3	2	6		
		145(c)(i) damage to any plant, equipment, building or structure,	-	-	-	-	-	-	-	-	-	-	-	3	2	5	
		145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	-	-	-	-	3	1	1	5	
		145(g) uncontrolled issue of gas or fluids	-	-	-	-	-	-	-	-	-	-	2	3	-	5	
		145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	-	-	-	-	4	1	5	
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	-	-	-	-	-	-	1	3	4
		145(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	-	-	3	-	-	3	
		145(o) airblast	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	<b>Total</b>	-	-	-	-	-	-	-	-	-	-	-	64	96	84	244	
	MHSR 2007 CI 146(1)	146(1)(e) a significant misfire of explosives	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
	<b>Total</b>	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	-	7	13	16	36	
	<b>Total</b>	-	-	-	-	-	-	-	-	-	-	-	7	13	16	36	
	<b>MHS Total</b>	-	-	-	-	-	-	-	-	-	-	-	71	110	100	281	
N/A	Complaint	Mine Employee Complaint	1	1	4	2	3	-	2	4	2	4	5	3	31		
		Public Complaint	-	1	3	1	4	4	4	1	1	1	2	1	23		
		Union Official Complaint	-	-	-	-	-	-	-	-	2	1	-	-	2	5	
		Other	2	-	-	-	1	-	-	1	-	-	-	-	-	4	
		<b>Total</b>	3	2	7	3	8	4	6	6	6	5	6	7	6	63	
	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	1	140		
		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	5	42		
		Roof/back	-	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	1	11		
		Explosive gases such as H <sub>2</sub> , CH <sub>4</sub>	-	-	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 2010-11  
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	2010-11	Total		
N/A	High Potential Incident	Explosive Incident not a Dangerous Incident	-	-	-	-	-	-	-	-	3	-	-	1	4		
		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	
		Dusts that can effect health such as coal, silica	-	-	-	1	-	-	-	-	1	-	-	-	-	2	
		Floor	-	-	-	-	-	-	1	-	-	-	1	-	-	2	
		Spontaneous combustion such as coal	1	-	-	1	-	-	-	-	-	-	-	-	-	2	
		Water - with significant rates of make	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
		Fines or build up of combustible particles	-	-	-	-	-	-	1	-	-	-	-	-	-	1	
		Low wall	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
		Noise greater than 85dBA	-	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	
			<b>Total</b>		<b>18</b>	<b>29</b>	<b>25</b>	<b>44</b>	<b>30</b>	<b>48</b>	<b>38</b>	<b>45</b>	<b>54</b>	<b>19</b>	<b>7</b>	<b>10</b>	<b>367</b>
			<b>UNKNOWN</b>	Unknown	8	1	-	2	-	-	-	-	-	-	-	-	11
			<b>Total</b>	<b>8</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>11</b>	
	<b>N/A Total</b>		<b>29</b>	<b>32</b>	<b>32</b>	<b>49</b>	<b>38</b>	<b>52</b>	<b>44</b>	<b>51</b>	<b>59</b>	<b>25</b>	<b>14</b>	<b>16</b>	<b>441</b>		
<b>Non-Coal Metalliferous Underground Incidents Total</b>			<b>139</b>	<b>101</b>	<b>111</b>	<b>106</b>	<b>102</b>	<b>108</b>	<b>116</b>	<b>114</b>	<b>94</b>	<b>103</b>	<b>124</b>	<b>116</b>	<b>1,334</b>		

**Figure 158**

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 1999-00 to 2010-11

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	2010-11	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		
	<b>Total</b>	<b>33</b>	<b>2</b>	-	-	-	-	-	-	-	-	-	-	-	<b>35</b>		
	*Minor Accident MIA	*Lost Time Injury	-	-	-	3	-	-	-	-	-	-	-	-	-	3	
		*MTI with NO Lost Time	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
		<b>Total</b>	-	-	-	<b>4</b>	-	-	-	-	-	-	-	-	-	<b>4</b>	
	*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	
		<b>Total</b>	<b>9</b>	<b>8</b>	<b>9</b>	-	-	-	-	-	-	-	-	-	-	<b>26</b>	
		*Serious Injury MIA	*Fracture(s)	-	-	4	3	3	-	-	-	-	-	-	-	-	10
			*Burns requiring hospital treatment	-	-	-	1	-	-	-	-	-	-	-	-	-	1
	<b>Total</b>		-	-	<b>4</b>	<b>4</b>	<b>3</b>	-	-	-	-	-	-	-	-	<b>11</b>	
	*Dangerous Incident	*Mobile Plant - general transport/traffic	-	1	3	10	7	10	7	3	7	1	-	-	-	49	
		*Electric shock CI 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 CI 65(1)(c)	-	-	-	2	-	2	3	2	-	-	-	-	-	9	
		*Ejection of Flyrock CI 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 CI 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 CI 68(5)(d)		-	-	-	1	-	-	-	-	-	-	-	-	-	1		
<b>Total</b>	-	<b>4</b>	<b>8</b>	<b>28</b>	<b>22</b>	<b>23</b>	<b>20</b>	<b>18</b>	<b>18</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>143</b>			
*Non Spec Acc Ending in Fat/Injury	*Lost Time Injury	20	7	3	-	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	-	-	-	1	-	-	-	-	7		
	*Minor injury	-	2	1	-	-	-	-	-	-	1	-	-	-	4		
<b>Total</b>	<b>40</b>	<b>14</b>	<b>6</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>3</b>	<b>11</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>86</b>			
<b>*MIA Total</b>	<b>82</b>	<b>28</b>	<b>27</b>	<b>38</b>	<b>30</b>	<b>24</b>	<b>23</b>	<b>29</b>	<b>22</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>305</b>			

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 1999-00 to 2010-11 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	2010-11	Total	
Explosives	Explosives Regulation 2005	Serious Incidents involving explosives CI 75	-	-	-	-	-	-	1	1	-	-	-	-	2	
		<b>Total</b>	-	-	-	-	-	-	1	1	-	-	-	-	2	
	<b>Explosives Total</b>	-	-	-	-	-	-	-	1	1	-	-	-	-	2	
MHS	MHSR 2007 CI 145	145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	8	7	10	25	
		145(e) uncontrolled explosion or fire	-	-	-	-	-	-	-	-	-	5	4	8	17	
		145(j) loss of control of vehicle or other machinery	-	-	-	-	-	-	-	-	-	6	7	3	16	
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	-	-	-	3	1	7	11	
		145(c)(i) damage to any plant, equipment, building or structure	-	-	-	-	-	-	-	-	-	2	1	6	9	
		145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	-	-	-	1	7	1	9	
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	-	-	-	5	2	2	9	
		145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	-	-	-	4	3	2	9	
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	-	-	-	2	2	4	8	
		145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present	-	-	-	-	-	-	-	-	-	1	1	3	5	
		145(d)(ii) where a vehicle, machinery or other plant makes contact with an energised high voltage source involving a risk to any person	-	-	-	-	-	-	-	-	-	-	1	3	4	
		145(g) an uncontrolled issue of gas or fluids	-	-	-	-	-	-	-	-	-	-	1	3	4	
		145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	-	-	-	1	2	3	
		145(l) ejection of fly rock so that it falls outside a blast exclusion zone (being the area below, at or above ground level from which all unauthorised persons are excluded during blasting)	-	-	-	-	-	-	-	-	-	-	-	1	1	
		145(p) the burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	-	-	1	-	1
		<b>Total</b>	-	-	-	-	-	-	-	-	-	-	37	39	55	131
		MHSR 2007 CI 146(1)	MHSR 2007 CI 146(1)	146(1)(f) a problem or fault in an explosive product or accessory	-	-	-	-	-	-	-	-	-	-	2	-
146(1)(e) significant misfire of explosives	-			-	-	-	-	-	-	-	-	1	-	2	3	
<b>Total</b>	-		-	-	-	-	-	-	-	-	-	1	2	2	5	
Non Spec Acc Ending in Fat/Injury	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	7	10	22	39	
		<b>Total</b>	-	-	-	-	-	-	-	-	-	7	10	22	39	
<b>MHS Total</b>			-	-	-	-	-	-	-	-	-	45	51	79	175	

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 1999-00 to 2010-11 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	2010-11	Total	
N/A	Complaint	Public Complaint	2	7	16	12	7	11	11	10	7	7	11	9	110	
		Mine Employee Complaint	-	2	3	2	2	2	-	4	1	3	6	4	29	
		Other	1	1	2	2	2	3	1	-	1	1	1	1	16	
		<b>Total</b>	<b>3</b>	<b>10</b>	<b>21</b>	<b>16</b>	<b>11</b>	<b>16</b>	<b>12</b>	<b>14</b>	<b>9</b>	<b>11</b>	<b>18</b>	<b>14</b>	<b>155</b>	
	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	2	113	
		Other	5	9	8	11	9	13	7	9	3	-	1	1	76	
		Electrical energy from apparatus such as cables, transformers, switch gear, connections	-	4	-	2	-	2	1	2	4	2	1	2	20	
		Slopes/grades/ramps where equipment can move in a uncontrolled manner	2	-	3	4	6	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	-	-	2	16	
		Mining equipment such as continuous miners, excavators, drills, shovels	-	1	-	2	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	-	-	-	6	
		Explosive Incident not a Dangerous Incident	-	-	-	-	-	-	-	-	-	1	2	-	1	4
		Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	-	2	-	2	-	-	-	-	-	-	-	-	-	4
		Dusts that can effect health	-	-	-	-	-	-	1	-	-	-	-	-	1	2
		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
		Water - in large volumes	-	-	-	-	-	-	-	-	-	-	-	2	-	2
		Explosive gases such as H <sub>2</sub> , CH <sub>4</sub>	-	1	-	-	-	-	-	-	-	-	-	-	-	1
		Fines or build up of combustible particles	-	1	-	-	-	-	-	-	-	-	-	-	-	1
		Flammable gases such as Acetylene, LPG	-	-	1	-	-	-	-	-	-	-	-	-	-	1
		Hydraulic pressure	-	-	-	-	-	-	-	-	-	-	-	-	1	1
		Lightning strike	-	1	-	-	-	-	-	-	-	-	-	-	-	1
		Low wall	-	-	-	1	-	-	-	-	-	-	-	-	-	1
		Noise greater than 85dBA	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		Water - from rain or storms	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	<b>Total</b>	<b>12</b>	<b>33</b>	<b>26</b>	<b>40</b>	<b>30</b>	<b>38</b>	<b>26</b>	<b>26</b>	<b>31</b>	<b>15</b>	<b>8</b>	<b>11</b>	<b>296</b>		
	UNKNOWN	5	-	-	3	-	-	-	-	-	-	-	-	-	8	
<b>Total</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8</b>		
<b>N/A Total</b>	<b>20</b>	<b>43</b>	<b>47</b>	<b>59</b>	<b>41</b>	<b>54</b>	<b>38</b>	<b>40</b>	<b>40</b>	<b>26</b>	<b>26</b>	<b>25</b>	<b>459</b>			
<b>Non-Coal Extractives Surface IncidentsTotal</b>	<b>102</b>	<b>71</b>	<b>74</b>	<b>97</b>	<b>71</b>	<b>78</b>	<b>62</b>	<b>70</b>	<b>62</b>	<b>73</b>	<b>77</b>	<b>104</b>	<b>941</b>			



**Figure 159**

**Non-Coal Extractives Underground Incidents by Incident Type and Subtype 1999-00 to 2010-11**

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	2010-11	Total
*MIA	*Dangerous Incident	*Ejection of Flyrock Cl 64(2)	-	-	-	-	-	1	-	-	-	-	-	-	1
		*Electric shock Cl 68(5)(e)	-	-	-	-	-	-	1	-	-	-	-	-	1
		*Rock falls - ( major ) Ground Movement	-	-	-	-	1	-	-	-	-	-	-	-	1
		*Airblast	-	-	-	-	-	-	1	-	-	-	-	-	1
		<b>Total</b>	-	-	-	-	1	1	2	-	-	-	-	-	4
<b>*MIA Total</b>			-	-	-	-	1	1	2	-	-	-	-	-	4
MHS	MHSR 2007 Cl 145	145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	-	-	-	1	2	3
		145(p) the burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	-	-	1	1
		<b>Total</b>	-	-	-	-	-	-	-	-	-	-	-	2	2
	MHSR 2007 Cl 146(1)	146(1)(e) significant misfire of explosives	-	-	-	-	-	-	-	-	-	-	1	-	1
		<b>Total</b>	-	-	-	-	-	-	-	-	-	-	1	-	1
<b>MHS Total</b>			-	-	-	-	-	-	-	-	-	1	2	2	5
N/A	Complaint	Mine Employee Complaint	-	-	-	-	-	1	1	-	-	-	-	-	2
		Other	-	-	-	-	-	1	-	-	-	-	-	-	1
		<b>Total</b>	-	-	-	-	-	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
		<b>Total</b>	-	-	-	-	-	-	2	3	1	2	-	-	8
	<b>N/A Total</b>			-	-	-	-	-	4	4	1	2	-	-	11
<b>Non-Coal Extractives Underground Incidents Total</b>			-	-	-	-	1	5	6	1	2	1	2	20	

**Figure 160**  
Non-Coal Other Incidents by Incident Type and Subtype 1999-00 to 2010-11

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	2010-11	Total		
*MIA	*1994 Emergency MIA	*Explosion/ignition dust MIA	2	-	-	-	-	-	-	-	-	-	-	-	2		
		<b>Total</b>	<b>2</b>	-	-	-	-	-	-	-	-	-	-	-	<b>2</b>		
	*Minor Accident MIA	*MTI with NO Lost Time	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
		<b>Total</b>	-	-	-	<b>1</b>	-	-	-	-	-	-	-	-	-	<b>1</b>	
	*Pre Sept 2000 Dangerous Incident MIA	*Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
		<b>Total</b>	<b>1</b>	-	-	-	-	-	-	-	-	-	-	-	-	<b>1</b>	
	*Dangerous Incident	*Mobile Plant - general transport/traffic	*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
			<b>Total</b>	-	-	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	-	-	<b>7</b>
			*SBI/SI	2	-	-	-	2	-	-	-	-	-	-	-	-	4
	*Non Spec Acc Ending in Fat/Injury	*Lost Time Injury	1	1	-	-	-	-	-	-	-	-	-	-	-	2	
<b>Total</b>		<b>3</b>	<b>1</b>	-	-	<b>2</b>	-	-	-	-	-	-	-	-	<b>6</b>		
<b>*MIA Total</b>			<b>6</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	-	-	-	<b>17</b>		
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		
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	-	-	1	1		
		<b>Total</b>	-	-	-	-	-	-	-	-	-	-	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	-	1	1	-	2	
<b>Total</b>		-	-	-	-	-	-	-	-	-	-	<b>1</b>	<b>1</b>	-	<b>2</b>		
<b>MHS Total</b>			-	-	-	-	-	-	-	-	-	<b>2</b>	<b>2</b>	<b>1</b>	<b>5</b>		
N/A	Complaint	Mine Employee Complaint	-	-	-	-	1	-	-	-	-	-	-	-	1		
		Other	-	1	-	-	-	-	-	-	-	-	-	-	1		
		<b>Public Complaint</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>		
	High Potential Incident	Other	-	-	-	-	-	-	-	2	-	1	-	1	4		
		Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
		<b>Total</b>	-	-	-	<b>1</b>	-	-	-	<b>2</b>	-	<b>1</b>	-	<b>1</b>	-	<b>5</b>	
	UNKNOWN	UNKNOWN	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
<b>Total</b>		<b>2</b>	-	-	-	-	-	-	-	-	-	-	-	-	<b>2</b>		
<b>N/A Total</b>			<b>3</b>	<b>1</b>	-	<b>1</b>	<b>1</b>	-	<b>2</b>	-	<b>1</b>	-	<b>1</b>	<b>1</b>	<b>11</b>		
<b>Non-Coal Other Incidents Total</b>			<b>9</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>33</b>		

**Figure 161**  
Petroleum (Onshore) Incidents by Incident Type and Subtype 1999-00 to 2010-11

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	2010-11	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	2	9
		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
		<b>Total</b>	<b>1</b>	<b>1</b>	<b>2</b>	-	<b>1</b>	-	-	-	<b>3</b>	-	<b>3</b>	<b>10</b>	<b>2</b>	<b>23</b>
<b>Petroleum Incidents Total</b>			<b>1</b>	<b>1</b>	<b>2</b>	-	<b>1</b>	-	-	<b>3</b>	-	<b>3</b>	<b>10</b>	<b>2</b>	<b>23</b>	

## Appendix A.2 Hours Worked

**Figure 162**

NSW Coal Hours Worked by Operation Type 1999-00 to 2010-11

Financial Year	Coal Surface			Coal Underground			Coal Total		
	Employees	Contractors	Hours Worked	Employees	Contractors	Hours Worked	Employees	Contractors	Hours Worked
1999-00	-	-	7,635,700	-	-	12,016,100	-	-	19,651,800
2000-01	-	-	7,684,600	-	-	10,973,300	-	-	18,657,900
2001-02	-	-	8,772,400	-	-	10,903,400	-	-	19,675,800
2002-03	-	-	9,485,000	-	-	9,735,400	-	-	19,220,400
2003-04	-	-	9,918,400	-	-	9,708,100	-	-	19,626,500
2004-05	-	-	10,604,500	-	-	10,684,000	-	-	21,288,500
2005-06	-	-	12,455,955	-	-	12,718,055	-	-	25,174,010
2006-07	-	-	13,502,348	-	-	13,441,113	-	-	26,943,461
2007-08	10,184,642	7,058,893	17,243,535	10,028,748	4,526,003	14,554,751	20,213,390	11,584,896	31,798,286
2008-09	11,456,845	7,622,264	19,079,109	11,950,248	5,722,871	17,673,119	23,407,093	13,345,135	36,752,228
2009-10	12,003,442	9,728,510	21,731,952	12,036,194	6,358,064	18,394,258	24,039,636	16,086,574	40,126,210
2010-11	14,467,097	11,212,245	25,679,342	11,437,652	6,143,476	17,581,128	25,904,749	17,355,721	43,260,470

**Figure 163**

NSW Metalliferous Hours Worked by Operation Type 1999-00 to 2010-11

Financial Year	Metalliferous Surface			Metalliferous Underground			Metalliferous Total		
	Employees	Contractors	Hours Worked	Employees	Contractors	Hours Worked	Employees	Contractors	Hours Worked
1999-00	-	-	1,244,763	-	-	3,734,289	-	-	4,979,052
2000-01	-	-	1,834,521	-	-	4,294,554	-	-	6,129,075
2001-02	-	-	1,680,604	-	-	3,927,260	-	-	5,607,864
2002-03	-	-	2,329,522	-	-	4,177,375	-	-	6,506,897
2003-04	-	-	2,329,522	-	-	6,989,312	-	-	9,318,834
2004-05	-	-	2,868,840	-	-	4,374,582	-	-	7,243,422
2005-06	-	-	3,093,397	-	-	3,941,818	-	-	7,035,215
2006-07	-	-	3,253,094	-	-	4,921,330	-	-	8,174,424
2007-08	-	-	3,578,403	-	-	5,413,463	-	-	8,991,866
2008-09	2,159,677	1,694,508	3,854,185	4,317,927	2,264,033	6,581,960	6,477,604	3,958,541	10,436,145
2009-10	2,108,575	1,897,338	4,005,913	3,991,693	2,772,505	6,764,198	6,100,268	4,669,843	10,770,111
2010-11	2,025,290	2,766,478	4,791,768	3,650,171	3,757,023	7,407,194	5,675,461	6,523,501	12,198,962

**Figure 164**

NSW Extractives Total Hours Worked 1999-00 to 2010-11

Financial Year	Extractives Total		
	Employees	Contractors	Hours Worked
1999-00	-	-	7,598,616
2000-01	-	-	3,829,184
2001-02	-	-	2,786,853
2002-03	-	-	2,298,646
2003-04	-	-	2,020,910
2004-05	-	-	2,444,727
2005-06	-	-	3,252,521
2006-07	-	-	4,010,397
2007-08	-	-	4,411,437
2008-09	3,504,625	1,118,095	4,622,720
2009-10	3,098,685	966,822	4,065,507
2010-11	3,139,473	992,539	4,132,012

## Appendix A.3 Fatalities

**Figure 165**

NSW Coal, Metalliferous & Extractives Fatalities by Sector 1999-99 to 2010-11

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	2010-11	Total
Coal	Surface	-	-	-	-	1	-	-	-	-	-	-	-	1
	Underground	3	2	1	-	2	-	-	1	-	3	-	1	13
	<b>Total</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>1</b>	<b>14</b>
Metalliferous	Underground	6	-	-	1	-	-	-	1	-	-	-	-	8
	<b>Total</b>	<b>6</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8</b>
Extractives	Surface	2	1	-	-	-	1	-	-	-	-	-	-	4
	<b>Total</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4</b>
Petroleum	Surface	-	-	-	-	-	-	-	-	-	-	1	-	1
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>
<b>Total</b>		<b>11</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>27</b>

**Figure 166**

NSW Coal, Metalliferous & Extractives Fatalities by Operation Type 1999-99 to 2010-11

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	2010-11	Total
Surface	Coal	-	-	-	-	1	-	-	-	-	-	-	-	1
	Extractives	2	1	-	-	-	1	-	-	-	-	-	-	4
	Petroleum	-	-	-	-	-	-	-	-	-	-	1	-	1
	<b>Total</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>6</b>
Underground	Coal	3	2	1	-	2	-	-	1	-	3	-	1	13
	Metalliferous	6	-	-	1	-	-	-	1	-	-	-	-	8
	<b>Total</b>	<b>9</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>1</b>	<b>21</b>
<b>Total</b>	<b>11</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>27</b>	

## Appendix A.4 Lost Time Injuries (LTIs)

**Figure 167**

NSW Coal, Metalliferous & Extractives Lost Time Injuries by Sector 1999-00 to 2010-11

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	2010-11	Total
Coal	Surface	163	158	126	105	103	84	79	120	47	62	68	52	1,167
	Underground	455	391	412	346	319	292	304	319	216	239	218	200	3,711
	<b>Total</b>	<b>618</b>	<b>549</b>	<b>538</b>	<b>451</b>	<b>422</b>	<b>376</b>	<b>383</b>	<b>439</b>	<b>263</b>	<b>301</b>	<b>286</b>	<b>252</b>	<b>4,878</b>
Metalliferous	Surface	12	8	2	3	3	3	7	15	5	8	8	5	79
	Underground	59	100	52	60	58	28	25	34	35	27	39	26	543
	<b>Total</b>	<b>71</b>	<b>108</b>	<b>54</b>	<b>63</b>	<b>61</b>	<b>31</b>	<b>32</b>	<b>49</b>	<b>40</b>	<b>35</b>	<b>47</b>	<b>31</b>	<b>622</b>
Extractives	Surface	25	24	57	61	61	22	27	28	25	56	45	42	473
	<b>Total</b>	<b>25</b>	<b>24</b>	<b>57</b>	<b>61</b>	<b>61</b>	<b>22</b>	<b>27</b>	<b>28</b>	<b>25</b>	<b>56</b>	<b>45</b>	<b>42</b>	<b>473</b>
<b>Total</b>		<b>714</b>	<b>681</b>	<b>649</b>	<b>575</b>	<b>544</b>	<b>429</b>	<b>442</b>	<b>516</b>	<b>328</b>	<b>392</b>	<b>378</b>	<b>325</b>	<b>5,973</b>

**Figure 168**

NSW Coal, Metalliferous & Extractives Lost Time Injuries by Operation Type 1999-00 to 2010-11

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	2010-11	Total
Surface	Coal	163	158	126	105	103	84	79	120	47	62	68	52	1,167
	Metalliferous	12	8	2	3	3	3	7	15	5	8	8	5	79
	Extractives	25	24	57	61	61	22	27	28	25	56	45	42	473
	<b>Total</b>	<b>200</b>	<b>190</b>	<b>185</b>	<b>169</b>	<b>167</b>	<b>109</b>	<b>113</b>	<b>163</b>	<b>77</b>	<b>126</b>	<b>121</b>	<b>99</b>	<b>1,719</b>
Underground	Coal	455	391	412	346	319	292	304	319	216	239	218	200	3,711
	Metalliferous	59	100	52	60	58	28	25	34	35	27	39	26	543
	<b>Total</b>	<b>514</b>	<b>491</b>	<b>464</b>	<b>406</b>	<b>377</b>	<b>320</b>	<b>329</b>	<b>353</b>	<b>251</b>	<b>266</b>	<b>257</b>	<b>226</b>	<b>4,254</b>
<b>Total</b>	<b>714</b>	<b>681</b>	<b>649</b>	<b>575</b>	<b>544</b>	<b>429</b>	<b>442</b>	<b>516</b>	<b>328</b>	<b>392</b>	<b>378</b>	<b>325</b>	<b>5,973</b>	

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

**Figure 169**

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Sector 2007-08 to 2010-11

Sector	Operation Type	2007-08					2008-09					2009-10					2010-11					Total TRI
		FI	LTI	RDI	MTI	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	-	68	77	69	214	-	52	88	77	217	859
	Underground	-	216	591	411	1,218	3	239	538	213	993	-	218	582	122	922	1	200	467	125	793	3,926
	<b>Total</b>	-	<b>263</b>	<b>672</b>	<b>506</b>	<b>1,441</b>	<b>3</b>	<b>301</b>	<b>619</b>	<b>275</b>	<b>1,198</b>	-	<b>286</b>	<b>659</b>	<b>191</b>	<b>1,136</b>	<b>1</b>	<b>252</b>	<b>555</b>	<b>202</b>	<b>1,010</b>	<b>4,785</b>
Metalliferous	Surface	-	-	-	-	-	-	8	16	13	37	-	8	20	8	36	-	5	64	17	86	159
	Underground	-	-	-	-	-	-	27	91	111	228	-	39	94	66	199	-	26	97	56	179	606
	<b>Total</b>	-	-	-	-	-	-	<b>35</b>	<b>107</b>	<b>124</b>	<b>265</b>	-	<b>47</b>	<b>114</b>	<b>74</b>	<b>235</b>	-	<b>31</b>	<b>161</b>	<b>73</b>	<b>265</b>	<b>765</b>
Extractives	Surface	-	-	-	-	-	-	56	61	68	185	-	45	97	71	213	-	42	72	49	163	561
	<b>Total</b>	-	-	-	-	-	-	<b>56</b>	<b>61</b>	<b>68</b>	<b>185</b>	-	<b>45</b>	<b>97</b>	<b>71</b>	<b>213</b>	-	<b>42</b>	<b>72</b>	<b>49</b>	<b>163</b>	<b>561</b>
<b>Total</b>		-	<b>263</b>	<b>672</b>	<b>506</b>	<b>1,441</b>	<b>3</b>	<b>392</b>	<b>787</b>	<b>467</b>	<b>1,649</b>	-	<b>378</b>	<b>870</b>	<b>336</b>	<b>1,584</b>	<b>1</b>	<b>325</b>	<b>788</b>	<b>324</b>	<b>1,438</b>	<b>6,112</b>

**Figure 170**

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Operation Type 2007-08 to 2010-11

Sector	Operation Type	2007-08					2008-09					2009-10					2010-11					Total TRI
		FI	LTI	RDI	MTI	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	-	68	77	69	214	-	52	88	77	217	859
	Metalliferous	-	-	-	-	-	-	8	16	13	37	-	8	20	8	36	-	5	64	17	86	159
	Extractives	-	-	-	-	-	-	56	61	68	185	-	45	97	71	213	-	42	72	49	163	561
	<b>Total</b>	-	<b>47</b>	<b>81</b>	<b>95</b>	<b>223</b>	-	<b>126</b>	<b>158</b>	<b>143</b>	<b>428</b>	-	<b>121</b>	<b>194</b>	<b>148</b>	<b>463</b>	-	<b>99</b>	<b>224</b>	<b>143</b>	<b>466</b>	<b>1,580</b>
Underground	Coal	-	216	591	411	1,218	3	239	538	213	993	-	218	582	122	922	1	200	467	125	793	3,926
	Metalliferous	-	-	-	-	-	-	27	91	111	228	-	39	94	66	199	-	26	97	56	179	606
	<b>Total</b>	-	<b>216</b>	<b>591</b>	<b>411</b>	<b>1,218</b>	<b>3</b>	<b>266</b>	<b>629</b>	<b>324</b>	<b>1,221</b>	-	<b>257</b>	<b>676</b>	<b>188</b>	<b>1,121</b>	<b>1</b>	<b>226</b>	<b>564</b>	<b>181</b>	<b>972</b>	<b>4,532</b>
<b>Total</b>		-	<b>263</b>	<b>672</b>	<b>506</b>	<b>1,441</b>	<b>3</b>	<b>392</b>	<b>787</b>	<b>467</b>	<b>1,649</b>	-	<b>378</b>	<b>870</b>	<b>336</b>	<b>1,584</b>	<b>1</b>	<b>325</b>	<b>788</b>	<b>324</b>	<b>1,438</b>	<b>6,112</b>

## Appendix A.6 Serious Bodily Injuries (SBIs)

**Figure 171**  
Serious Bodily Injuries by Sector 1999-2000 to 2010-11

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	2010-11	Total
Coal	Surface	11	6	9	11	5	9	11	5	8	6	8	10	99
	Underground	26	34	27	26	43	25	24	27	18	22	24	18	314
	<b>Total</b>	<b>37</b>	<b>40</b>	<b>36</b>	<b>37</b>	<b>48</b>	<b>34</b>	<b>35</b>	<b>32</b>	<b>26</b>	<b>28</b>	<b>32</b>	<b>28</b>	<b>413</b>
Metalliferous	Surface	-	3	-	3	5	2	7	6	1	2	2	1	32
	Underground	8	8	8	1	7	4	7	11	4	8	3	5	74
	<b>Total</b>	<b>8</b>	<b>11</b>	<b>8</b>	<b>4</b>	<b>12</b>	<b>6</b>	<b>14</b>	<b>17</b>	<b>5</b>	<b>10</b>	<b>5</b>	<b>6</b>	<b>106</b>
Extractives	Surface	10	3	7	7	7	2	4	10	2	5	3	3	63
	<b>Total</b>	<b>10</b>	<b>3</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>2</b>	<b>4</b>	<b>10</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>3</b>	<b>63</b>
Non-Coal Other	Surface	2	-	-	1	1	1	1	1	1	-	-	-	8
	Underground	-	-	-	-	1	-	-	-	-	-	-	-	1
	<b>Total</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>9</b>
Petroleum	Surface	1	1	2	-	1	-	-	3	-	1	4	-	13
	<b>Total</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>1</b>	<b>4</b>	<b>-</b>	<b>13</b>
<b>Total</b>		<b>58</b>	<b>55</b>	<b>53</b>	<b>49</b>	<b>70</b>	<b>43</b>	<b>54</b>	<b>63</b>	<b>34</b>	<b>44</b>	<b>44</b>	<b>37</b>	<b>604</b>

**Figure 172**  
Serious Bodily Injuries by Operation Type 1999-2000 to 2010-11

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	2010-11	Total
Surface	Coal	11	6	9	11	5	9	11	5	8	6	8	10	99
	Metalliferous	-	3	-	3	5	2	7	6	1	2	2	1	32
	Extractives	10	3	7	7	7	2	4	10	2	5	3	3	63
	Non-Coal Other	2	-	-	1	1	1	1	1	1	-	-	-	8
	Petroleum	1	1	2	-	1	-	-	3	-	1	4	-	13
	<b>Total</b>	<b>24</b>	<b>13</b>	<b>18</b>	<b>22</b>	<b>19</b>	<b>14</b>	<b>23</b>	<b>25</b>	<b>12</b>	<b>14</b>	<b>17</b>	<b>14</b>	<b>215</b>
Underground	Coal	26	34	27	26	43	25	24	27	18	22	24	18	314
	Metalliferous	8	8	8	1	7	4	7	11	4	8	3	5	74
	Non-Coal Other	-	-	-	-	1	-	-	-	-	-	-	-	1
	<b>Total</b>	<b>34</b>	<b>42</b>	<b>35</b>	<b>27</b>	<b>51</b>	<b>29</b>	<b>31</b>	<b>38</b>	<b>22</b>	<b>30</b>	<b>27</b>	<b>23</b>	<b>389</b>
<b>Total</b>	<b>58</b>	<b>55</b>	<b>53</b>	<b>49</b>	<b>70</b>	<b>43</b>	<b>54</b>	<b>63</b>	<b>34</b>	<b>44</b>	<b>44</b>	<b>37</b>	<b>604</b>	

**Figure 173**  
**Serious Bodily Injuries by Mechanism 1999-2000 to 2010-11**

Mechanism	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Falls from the same level (including trips and slips)	7	5	11	11	17	6	9	15	12	7	10	10	120
Fall from a height	7	11	8	11	14	4	9	13	7	5	10	8	107
Being hit by moving objects	7	8	6	5	7	6	6	12	-	8	5	8	78
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	3	28
Being trapped by stationary and moving object	-	-	1	2	2	2	1	6	2	5	2	2	25
Vehicle accident	1	1	2	3	3	3	1	-	2	4	3	2	25
Hitting objects with a part of the body	-	-	1	1	1	6	3	2	3	3	1	1	22
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	-	1	19
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	1	5
Contact with hot objects	-	-	-	-	-	-	-	-	-	1	2	-	3
Other muscular stress	-	-	-	1	1	-	1	-	-	-	-	-	3
Contact with, or exposure to, biological factors	1	-	-	-	-	1	-	-	-	-	-	-	2
Exposure to radiation	1	-	1	-	-	-	-	-	-	-	-	-	2
Muscular stress while lifting, carrying or putting down objects	-	-	-	-	-	-	-	1	-	-	-	1	2
Exposure to sharp sudden sound	-	-	-	-	1	-	-	-	-	-	-	-	1
Long term contact with chemical or substance	-	-	1	-	-	-	-	-	-	-	-	-	1
<b>Total</b>	<b>58</b>	<b>55</b>	<b>53</b>	<b>49</b>	<b>70</b>	<b>43</b>	<b>54</b>	<b>63</b>	<b>34</b>	<b>44</b>	<b>44</b>	<b>37</b>	<b>604</b>

**Figure 174**  
Serious Bodily Injuries by Agency 1999-2000 to 2010-11

Agency	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Mobile plant	9	6	8	16	11	18	18	14	7	13	10	7	137
Underground environment	10	11	14	5	22	7	11	16	11	3	8	8	126
Machinery and fixed plant - general	8	13	9	8	10	2	6	7	4	4	1	-	72
Powered equipment, tools and appliances	2	4	-	3	7	5	3	2	1	2	5	4	38
Outdoor environment	3	1	7	1	4	3	5	5	2	2	2	2	37
Other materials, substances or objects	2	-	2	1	2	1	4	4	2	5	9	3	35
Human agencies	4	-	2	4	2	1	1	1	2	2	2	4	25
Other	10	3	3	2	4	-	-	-	-	-	-	-	22
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	2	16
Unspecified agencies	3	1	-	-	1	2	1	-	1	2	1	3	15
Chemicals	2	2	2	1	1	2	2	-	-	-	-	-	12
Indoor environment	-	-	1	1	2	1	-	4	1	-	1	1	12
Unknown	2	5	1	1	1	-	-	-	-	-	-	-	10
Other transport	-	2	-	1	-	-	-	-	1	1	-	2	7
Non-powered hand tools	-	2	-	-	-	-	1	-	-	2	-	1	6
<b>Total</b>	<b>58</b>	<b>55</b>	<b>53</b>	<b>49</b>	<b>70</b>	<b>43</b>	<b>54</b>	<b>63</b>	<b>34</b>	<b>44</b>	<b>44</b>	<b>37</b>	<b>604</b>

**Figure 175**  
Serious Bodily Injuries by Nature of Injury 1999-2000 to 2010-11

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	2010-11	Total
Fractures (excluding of vertebral column)	31	31	35	33	46	24	28	46	25	33	34	35	401
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	1	25
Amputation	2	1	1	2	2	1	1	3	2	5	1	1	22
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
<b>Total</b>	<b>58</b>	<b>55</b>	<b>53</b>	<b>49</b>	<b>70</b>	<b>43</b>	<b>54</b>	<b>63</b>	<b>34</b>	<b>44</b>	<b>44</b>	<b>37</b>	<b>604</b>



**Figure 176**  
Serious Bodily Injuries by Bodily Location 1999-2000 to 2010-11

Bodily Location	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Arm/Forearm	10	9	11	12	11	11	11	8	4	2	1	6	96
Leg	-	8	5	6	10	5	11	11	7	9	8	5	85
Ribs	1	5	9	8	10	4	4	6	4	5	5	6	67
Hands and fingers	5	3	5	2	7	4	5	4	1	4	4	1	45
Ankle	-	3	5	6	7	3	1	6	2	1	5	4	43
Multiple locations (more than one part of body)	11	4	3	1	1	1	3	3	-	2	3	-	32
Wrist	-	1	-	-	-	-	-	7	4	5	5	8	30
Face	2	3	1	-	1	2	2	1	1	3	5	1	22
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	-	-	2	13
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
Neck	2	-	-	1	-	2	-	-	-	1	-	2	8
Eye	2	1	1	-	-	1	1	-	-	1	-	-	7
Feet and toes	-	-	1	1	1	-	-	-	1	2	-	1	7
Pelvis	-	-	1	-	-	-	-	2	1	2	1	-	7
Respiratory system	1	3	1	-	1	-	1	-	-	-	-	-	7
Thigh	-	-	1	-	1	1	2	-	1	-	-	1	7
Back - lower	-	-	-	1	1	1	-	-	1	-	2	-	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
<b>Total</b>	<b>58</b>	<b>55</b>	<b>53</b>	<b>49</b>	<b>70</b>	<b>43</b>	<b>54</b>	<b>63</b>	<b>34</b>	<b>44</b>	<b>44</b>	<b>37</b>	<b>604</b>

**Figure 177**  
Serious Bodily Injuries by Age Group 1999-2000 to 2010-11

Age Group	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
<20	2	3	2	3	-	1	1	1	1	1	-	1	16
20-29	8	9	8	2	10	7	9	11	7	7	9	8	95
30-39	14	10	17	13	13	7	6	17	5	10	12	10	134
40-49	13	19	16	13	22	9	13	12	7	12	12	10	158
50-59	10	9	6	11	17	8	6	13	9	11	9	8	117
60-69	3	1	2	1	2	1	-	2	3	3	2	-	20
>=70	3	-	-	-	2	1	1	-	-	-	-	-	7
Unknown	5	4	2	6	4	9	18	7	2	-	-	-	57
<b>Total</b>	<b>58</b>	<b>55</b>	<b>53</b>	<b>49</b>	<b>70</b>	<b>43</b>	<b>54</b>	<b>63</b>	<b>34</b>	<b>44</b>	<b>44</b>	<b>37</b>	<b>604</b>

**Figure 178**  
Serious Bodily Injuries by Employment Type 1999-2000 to 2010-11

Employment Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Employee	46	40	44	33	57	25	37	36	23	26	27	21	415
Contractor	9	9	7	15	12	17	17	27	11	18	17	15	174
Other	3	6	2	1	1	1	-	-	-	-	-	1	15
<b>Total</b>	<b>58</b>	<b>55</b>	<b>53</b>	<b>49</b>	<b>70</b>	<b>43</b>	<b>54</b>	<b>63</b>	<b>34</b>	<b>44</b>	<b>44</b>	<b>37</b>	<b>604</b>

## Appendix A.7 Notifiable Injury Outcomes

**Figure 179**  
Notifiable Injury Outcomes by Sector mid 2006-07 to 2010-11

Sector	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Coal	>=7 days lost time/alternative duties	193	426	408	399	403	1,829
	Hospital inpatient admission	34	75	86	97	78	370
	Lost consciousness	3	5	3	6	0	17
	Entrapment	0	0	3	1	1	5
	Fatality	0	0	3	0	1	4
	<b>Total</b>		<b>230</b>	<b>506</b>	<b>503</b>	<b>503</b>	<b>483</b>
Non-Coal	Hospital inpatient admission	-	-	9	22	17	48
	>=7 days lost time/alternative duties	-	-	15	23	26	64
	Lost consciousness	-	-	1	-	-	1
	<b>Total</b>			<b>25</b>	<b>45</b>	<b>43</b>	<b>113</b>
<b>Total</b>		<b>230</b>	<b>506</b>	<b>528</b>	<b>548</b>	<b>526</b>	<b>2,338</b>

**Figure 180**  
Notifiable Injury Outcomes by Surface/Underground Operation mid 2006-07 to 2010-11

Operation Type	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Surface	>=7 days lost time/alternative duties	28	31	66	71	68	264
	Hospital inpatient admission	5	12	26	25	29	97
	Lost consciousness	-	1	2	-	-	3
	Entrapment	-	-	1	-	1	2
	<b>Total</b>	<b>33</b>	<b>44</b>	<b>95</b>	<b>96</b>	<b>98</b>	<b>366</b>
Underground	>=7 days lost time/alternative duties	165	395	351	350	352	1,613
	Hospital inpatient admission	29	63	75	95	75	337
	Lost consciousness	3	4	2	6	-	15
	Fatality	-	-	2	1	-	3
	Entrapment	-	-	3	-	1	4
	<b>Total</b>	<b>197</b>	<b>462</b>	<b>433</b>	<b>452</b>	<b>428</b>	<b>1,972</b>
<b>Total</b>		<b>230</b>	<b>506</b>	<b>528</b>	<b>548</b>	<b>526</b>	<b>2,338</b>

**Figure 181**  
Notifiable Injury Outcomes by Event Subtype mid 2006-07 to 2010-11

Event Subtype	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Work Environment	>=7 days lost time/alternative duties	118	268	276	296	332	1,290
	Hospital inpatient admission	10	42	47	66	68	233
	Lost consciousness	1	2	1	4	-	8
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	1	-	1	2
	<b>Total</b>	<b>129</b>	<b>312</b>	<b>325</b>	<b>366</b>	<b>401</b>	<b>1,533</b>
Mech Equip Mobile	>=7 days lost time/alternative duties	67	147	125	111	68	518
	Hospital inpatient admission	19	28	44	40	26	157
	Lost consciousness	1	3	2	2	-	8
	Entrapment	-	-	1	-	1	2
	Fatality	-	-	2	-	-	2
	<b>Total</b>	<b>87</b>	<b>178</b>	<b>174</b>	<b>153</b>	<b>95</b>	<b>687</b>
Mech Equip Fixed	>=7 days lost time/alternative duties	5	6	9	7	9	36
	Hospital inpatient admission	1	2	8	7	6	24
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>6</b>	<b>8</b>	<b>17</b>	<b>14</b>	<b>15</b>	<b>60</b>
Strata/Ground Control	>=7 days lost time/alternative duties	1	2	4	5	5	17
	Hospital inpatient admission	2	-	-	2	-	4
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	2	1	-	3
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>3</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>5</b>	<b>24</b>
Electrical Energy	>=7 days lost time/alternative duties	-	1	2	1	1	5
	Hospital inpatient admission	1	1	2	2	2	8
	Lost consciousness	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>3</b>	<b>14</b>
Hazardous Materials	>=7 days lost time/alternative duties	2	1	-	-	-	3
	Hospital inpatient admission	1	1	-	2	1	5
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>8</b>
Explosives	>=7 days lost time/alternative duties	-	-	-	1	4	5
	Hospital inpatient admission	-	-	-	1	1	2
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>5</b>	<b>7</b>
Gas	>=7 days lost time/alternative duties	-	1	-	-	-	1
	Hospital inpatient admission	-	1	-	-	-	1
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>
Structural Failure	>=7 days lost time/alternative duties	-	-	1	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>2</b>
Water	>=7 days lost time/alternative duties	-	-	-	-	1	1
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>
<b>Total</b>	<b>230</b>	<b>506</b>	<b>528</b>	<b>548</b>	<b>526</b>	<b>2,338</b>	

**Figure 182**

Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2010-11

Mechanism	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Other muscular stress	>=7 days lost time/alternative duties	68	106	57	60	46	337
	Hospital inpatient admission	7	7	3	5	3	25
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>75</b>	<b>113</b>	<b>60</b>	<b>65</b>	<b>49</b>	<b>362</b>
Falls from the same level (including trips and slips)	>=7 days lost time/alternative duties	28	46	77	75	76	302
	Hospital inpatient admission	1	6	13	12	13	45
	Lost consciousness	-	-	-	1	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>29</b>	<b>52</b>	<b>90</b>	<b>88</b>	<b>89</b>	<b>348</b>
Muscular stress while lifting, carrying or putting down objects	>=7 days lost time/alternative duties	8	39	52	69	65	233
	Hospital inpatient admission	-	7	4	13	7	31
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>8</b>	<b>46</b>	<b>56</b>	<b>82</b>	<b>72</b>	<b>264</b>
Being hit by falling objects	>=7 days lost time/alternative duties	11	34	37	37	37	156
	Hospital inpatient admission	2	12	17	16	16	63
	Lost consciousness	2	1	1	-	-	4
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	2	-	-	2
	<b>Total</b>	<b>15</b>	<b>47</b>	<b>57</b>	<b>53</b>	<b>53</b>	<b>225</b>
Being hit by moving objects	>=7 days lost time/alternative duties	8	29	26	30	25	118
	Hospital inpatient admission	6	8	23	15	20	72
	Lost consciousness	1	2	1	1	-	5
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	1	-	1	2
	<b>Total</b>	<b>15</b>	<b>39</b>	<b>51</b>	<b>46</b>	<b>46</b>	<b>197</b>
Unspecified mechanism of injury	>=7 days lost time/alternative duties	25	51	36	21	30	163
	Hospital inpatient admission	3	5	2	5	9	24
	Lost consciousness	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>28</b>	<b>57</b>	<b>38</b>	<b>26</b>	<b>39</b>	<b>188</b>
Hitting objects with a part of the body	>=7 days lost time/alternative duties	11	25	30	25	40	131
	Hospital inpatient admission	-	5	7	9	8	29
	Lost consciousness	-	-	-	1	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>11</b>	<b>30</b>	<b>37</b>	<b>35</b>	<b>48</b>	<b>161</b>
Muscular stress with no objects being handled	>=7 days lost time/alternative duties	9	27	26	26	29	117
	Hospital inpatient admission	2	4	1	1	-	8
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	1	1
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>11</b>	<b>31</b>	<b>27</b>	<b>27</b>	<b>30</b>	<b>126</b>
Being trapped by stationary and moving object	>=7 days lost time/alternative duties	1	8	9	22	8	48
	Hospital inpatient admission	3	5	5	14	7	34
	Lost consciousness	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>4</b>	<b>13</b>	<b>15</b>	<b>36</b>	<b>15</b>	<b>83</b>

## Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2010-11 continued

Mechanism	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Muscular stress while handling objects other than lifting, carrying or putting down	>=7 days lost time/alternative duties	2	15	15	14	27	73
	Hospital inpatient admission	-	2	-	3	3	8
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>2</b>	<b>17</b>	<b>15</b>	<b>17</b>	<b>30</b>	<b>81</b>
Fall from a height	>=7 days lost time/alternative duties	7	6	6	14	10	43
	Hospital inpatient admission	1	1	3	10	5	20
	Lost consciousness	-	-	-	1	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>8</b>	<b>7</b>	<b>9</b>	<b>25</b>	<b>15</b>	<b>64</b>
Hitting stationary objects	>=7 days lost time/alternative duties	6	9	12	10	5	42
	Hospital inpatient admission	-	2	4	2	1	9
	Lost consciousness	-	-	-	1	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>6</b>	<b>11</b>	<b>16</b>	<b>13</b>	<b>6</b>	<b>52</b>
Hitting moving objects	>=7 days lost time/alternative duties	-	10	12	3	5	30
	Hospital inpatient admission	-	2	3	3	-	8
	Lost consciousness	-	-	-	1	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>12</b>	<b>15</b>	<b>7</b>	<b>5</b>	<b>39</b>
Vehicle accident	>=7 days lost time/alternative duties	3	6	6	2	2	19
	Hospital inpatient admission	2	2	4	1	2	11
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>5</b>	<b>8</b>	<b>10</b>	<b>3</b>	<b>4</b>	<b>30</b>
Single contact with chemical or substance (excludes insect and spider bites and stings)	>=7 days lost time/alternative duties	1	1	4	5	2	13
	Hospital inpatient admission	-	1	3	5	4	13
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>10</b>	<b>6</b>	<b>26</b>
Rep move't with low muscle loading	>=7 days lost time/alternative duties	1	3	3	6	5	18
	Hospital inpatient admission	1	-	2	2	1	6
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>6</b>	<b>24</b>
Other and multiple mechanisms of injury	>=7 days lost time/alternative duties	1	1	3	-	2	7
	Hospital inpatient admission	1	3	2	-	2	8
	Lost consciousness	-	1	-	-	-	1
	Entrapment	-	-	1	-	-	1
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>-</b>	<b>4</b>	<b>17</b>
Contact with electricity	>=7 days lost time/alternative duties	-	1	2	-	1	4
	Hospital inpatient admission	1	1	3	2	2	9
	Lost consciousness	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>3</b>	<b>14</b>

Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2010-11 continued

Mechanism	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Other contact with chemical or substance (includes insect and spider bites and stings)	>=7 days lost time/alternative duties	1	4	-	-	2	7
	Hospital inpatient admission	1	-	1	-	-	2
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>9</b>
Slide or cave-in	>=7 days lost time/alternative duties	1	-	2	-	-	3
	Hospital inpatient admission	2	-	-	-	-	2
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	2	1	-	3
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>3</b>	<b>-</b>	<b>4</b>	<b>1</b>	<b>-</b>	<b>8</b>
Contact with hot objects	>=7 days lost time/alternative duties	-	-	1	2	1	4
	Hospital inpatient admission	-	1	-	2	1	4
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>8</b>
Contact with exposure to heat and cold	>=7 days lost time/alternative duties	1	-	1	-	-	2
	Hospital inpatient admission	-	1	1	-	-	2
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>4</b>
Exposure to mechanical vibration	>=7 days lost time/alternative duties	-	3	-	-	-	3
	Hospital inpatient admission	1	-	-	-	-	1
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4</b>
Exposure to mental stress factors	>=7 days lost time/alternative duties	-	-	-	-	2	2
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>
Contact with, or exposure to, biological factors	>=7 days lost time/alternative duties	-	1	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>
Long term contact with chemical or substance	>=7 days lost time/alternative duties	-	1	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>
<b>Total</b>	<b>230</b>	<b>506</b>	<b>528</b>	<b>548</b>	<b>526</b>	<b>2,338</b>	

**Figure 183**  
Notifiable Injury Outcomes by Agency mid 2006-07 to 2010-11

Agency	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Underground environment	>=7 days lost time/alternative duties	74	169	157	125	137	662
	Hospital inpatient admission	10	26	18	17	21	92
	Lost consciousness	1	2	-	4	-	7
	Entrapment	-	-	2	-	-	2
	Fatality	-	-	-	-	1	1
	<b>Total</b>	<b>85</b>	<b>197</b>	<b>177</b>	<b>146</b>	<b>159</b>	<b>764</b>
Mobile plant	>=7 days lost time/alternative duties	42	94	101	95	63	395
	Hospital inpatient admission	11	20	31	23	12	97
	Lost consciousness	-	-	1	1	-	2
	Entrapment	-	-	-	-	1	1
	Fatality	-	-	1	-	-	1
	<b>Total</b>	<b>53</b>	<b>114</b>	<b>134</b>	<b>119</b>	<b>76</b>	<b>496</b>
Other materials, substances or objects	>=7 days lost time/alternative duties	13	50	53	83	108	307
	Hospital inpatient admission	1	8	15	30	24	78
	Lost consciousness	1	2	1	-	-	4
	Entrapment	-	-	-	1	-	1
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>15</b>	<b>60</b>	<b>69</b>	<b>114</b>	<b>132</b>	<b>390</b>
Powered equipment, tools and appliances	>=7 days lost time/alternative duties	5	9	11	12	21	58
	Hospital inpatient admission	3	3	6	15	9	36
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	1	-	-	1
	<b>Total</b>	<b>8</b>	<b>12</b>	<b>18</b>	<b>27</b>	<b>30</b>	<b>95</b>
Unspecified agencies	>=7 days lost time/alternative duties	17	14	19	21	13	84
	Hospital inpatient admission	-	1	2	4	4	11
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>17</b>	<b>15</b>	<b>21</b>	<b>25</b>	<b>17</b>	<b>95</b>
Machinery and fixed plant - general	>=7 days lost time/alternative duties	3	15	13	15	14	60
	Hospital inpatient admission	1	3	9	8	8	29
	Lost consciousness	-	1	1	-	-	2
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	1	-	-	1
	<b>Total</b>	<b>4</b>	<b>19</b>	<b>24</b>	<b>23</b>	<b>22</b>	<b>92</b>
Non-powered equipment	>=7 days lost time/alternative duties	4	8	14	23	18	67
	Hospital inpatient admission	-	3	5	8	9	25
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>4</b>	<b>11</b>	<b>19</b>	<b>31</b>	<b>27</b>	<b>92</b>
Human agencies	>=7 days lost time/alternative duties	11	18	10	13	11	63
	Hospital inpatient admission	1	1	2	3	5	12
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>12</b>	<b>19</b>	<b>12</b>	<b>16</b>	<b>16</b>	<b>75</b>
Outdoor environment	>=7 days lost time/alternative duties	10	12	14	10	10	56
	Hospital inpatient admission	-	4	2	4	3	13
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	1	-	-	1
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>10</b>	<b>16</b>	<b>17</b>	<b>14</b>	<b>13</b>	<b>70</b>

## Notifiable Injury Outcomes by Agency mid 2006-07 to 2010-11 continued

Agency	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Non-powered hand tools	>=7 days lost time/alternative duties	2	6	5	7	12	32
	Hospital inpatient admission	-	1	5	2	2	10
	Lost consciousness	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>3</b>	<b>7</b>	<b>10</b>	<b>9</b>	<b>14</b>	<b>43</b>
Road transport	>=7 days lost time/alternative duties	5	14	6	8	4	37
	Hospital inpatient admission	2	-	1	2	1	6
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>7</b>	<b>14</b>	<b>7</b>	<b>10</b>	<b>5</b>	<b>43</b>
Crushing, Pressing, Rolling Machinery	>=7 days lost time/alternative duties	1	4	3	4	2	14
	Hospital inpatient admission	3	2	4	2	2	13
	Lost consciousness	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>6</b>	<b>4</b>	<b>28</b>
Indoor environment	>=7 days lost time/alternative duties	3	5	4	2	3	17
	Hospital inpatient admission	1	-	1	-	3	5
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>4</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>6</b>	<b>22</b>
Other transport	>=7 days lost time/alternative duties	1	3	5	2	4	15
	Hospital inpatient admission	-	1	-	-	1	2
	Lost consciousness	-	-	-	1	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>5</b>	<b>18</b>
Non-physical agencies	>=7 days lost time/alternative duties	1	2	2	1	-	6
	Hospital inpatient admission	-	1	-	-	-	1
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>7</b>
Chemicals	>=7 days lost time/alternative duties	1	2	-	-	-	3
	Hospital inpatient admission	1	1	-	1	-	3
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>2</b>	<b>3</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>6</b>
Biological agencies	>=7 days lost time/alternative duties	-	1	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>
Live Animals	>=7 days lost time/alternative duties	-	-	-	-	-	-
	Hospital inpatient admission	-	-	-	1	-	1
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>
<b>Total</b>	<b>230</b>	<b>506</b>	<b>528</b>	<b>548</b>	<b>526</b>	<b>2,338</b>	



**Figure 184**

Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2010-11

Nature of Injury	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
<b>Sprain and strains of joints and adjacent muscles (include acute trauma sprains and strains only)</b>	>=7 days lost time/alternative duties	126	281	270	255	266	1,198
	Hospital inpatient admission	8	19	20	32	24	103
	Lost consciousness	-	1	-	1	-	2
	Entrapment	-	-	-	1	1	2
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>134</b>	<b>301</b>	<b>290</b>	<b>289</b>	<b>291</b>	<b>1,305</b>
<b>Fractures (excluding of vertebral column)</b>	>=7 days lost time/alternative duties	4	22	37	56	44	163
	Hospital inpatient admission	1	15	25	31	25	97
	Lost consciousness	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	2	-	-	2
	<b>Total</b>	<b>5</b>	<b>37</b>	<b>65</b>	<b>87</b>	<b>69</b>	<b>263</b>
<b>Open wound not involving traumatic amputation</b>	>=7 days lost time/alternative duties	1	19	35	41	36	132
	Hospital inpatient admission	2	8	18	20	20	68
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>3</b>	<b>27</b>	<b>53</b>	<b>61</b>	<b>56</b>	<b>200</b>
<b>Superficial injury</b>	>=7 days lost time/alternative duties	22	41	31	15	11	120
	Hospital inpatient admission	3	7	7	10	6	33
	Lost consciousness	3	-	2	1	-	6
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>28</b>	<b>48</b>	<b>40</b>	<b>26</b>	<b>17</b>	<b>159</b>
<b>Contusion with intact skin surface and crushing injury, excluding those with fracture</b>	>=7 days lost time/alternative duties	3	26	15	33	30	107
	Hospital inpatient admission	3	10	9	8	9	39
	Lost consciousness	-	1	-	-	-	1
	Entrapment	-	-	1	-	-	1
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>6</b>	<b>37</b>	<b>25</b>	<b>41</b>	<b>39</b>	<b>148</b>
<b>Other and unspecified injuries</b>	>=7 days lost time/alternative duties	18	15	4	3	9	49
	Hospital inpatient admission	3	3	2	4	5	17
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>21</b>	<b>18</b>	<b>6</b>	<b>7</b>	<b>14</b>	<b>66</b>
<b>Amputation</b>	>=7 days lost time/alternative duties	-	1	3	-	4	8
	Hospital inpatient admission	4	3	6	1	3	17
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>4</b>	<b>4</b>	<b>9</b>	<b>1</b>	<b>7</b>	<b>25</b>
<b>Disorders of muscle, tendons and other soft tissues (includes synovitis, tenosynovitis, bursitis)</b>	>=7 days lost time/alternative duties	6	5	3	2	3	19
	Hospital inpatient admission	4	1	-	-	-	5
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>10</b>	<b>6</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>24</b>
<b>Burns</b>	>=7 days lost time/alternative duties	2	-	5	2	2	11
	Hospital inpatient admission	1	2	2	3	3	11
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>3</b>	<b>2</b>	<b>7</b>	<b>5</b>	<b>5</b>	<b>22</b>

## Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2010-11 continued

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

## Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2010-11 continued

Nature of Injury	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Injection of fluid	>=7 days lost time/alternative duties	-	-	-	1	-	1
	Hospital inpatient admission	-	1	1	2	-	4
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	1	1	3	-	5
Injuries to nerves and spinal cord without evidence of spinal bone injury	>=7 days lost time/alternative duties	-	-	-	2	-	2
	Hospital inpatient admission	1	-	1	-	1	3
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	1	-	1	2	1	5
Haemorrhage - Internal	>=7 days lost time/alternative duties	-	-	-	1	-	1
	Hospital inpatient admission	-	-	1	2	-	3
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	-	1	3	-	4
Dermatitis and other eczema	>=7 days lost time/alternative duties	1	2	-	-	-	3
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	1	2	-	-	-	3
Other diseases	>=7 days lost time/alternative duties	-	2	-	-	-	2
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	2	-	-	-	2
Poisoning and toxic effects of substances	>=7 days lost time/alternative duties	-	1	-	1	-	2
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	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)	>=7 days lost time/alternative duties	1	-	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	1	-	-	-	-	1
Infectious and parasitic diseases	>=7 days lost time/alternative duties	-	-	-	-	-	-
	Hospital inpatient admission	-	-	-	-	1	1
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	-	-	-	1	1
Other diseases of the musculoskeletal system and connective tissue	>=7 days lost time/alternative duties	-	-	-	1	-	1
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	-	-	1	-	1
Sight - Loss/Impairment	>=7 days lost time/alternative duties	-	1	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	1	-	-	-	1
<b>Total</b>		230	506	528	548	526	2,338

**Figure 185**

Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2010-11

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Hands and fingers	>=7 days lost time/alternative duties	15	73	61	70	68	287
	Hospital inpatient admission	6	29	33	38	27	133
	Lost consciousness	1	-	1	-	-	2
	Entrapment	-	-	-	-	1	1
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>22</b>	<b>102</b>	<b>95</b>	<b>108</b>	<b>96</b>	<b>423</b>
Knee/Knee-cap	>=7 days lost time/alternative duties	36	61	49	45	61	252
	Hospital inpatient admission	2	8	6	4	9	29
	Lost consciousness	-	-	-	1	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>38</b>	<b>69</b>	<b>55</b>	<b>50</b>	<b>70</b>	<b>282</b>
Back - unspecified	>=7 days lost time/alternative duties	45	72	65	16	12	210
	Hospital inpatient admission	-	2	5	1	-	8
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>45</b>	<b>74</b>	<b>70</b>	<b>17</b>	<b>12</b>	<b>218</b>
Shoulder	>=7 days lost time/alternative duties	16	42	41	32	41	172
	Hospital inpatient admission	3	7	4	14	6	34
	Lost consciousness	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>19</b>	<b>50</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>207</b>
Back - lower	>=7 days lost time/alternative duties	-	-	22	61	55	138
	Hospital inpatient admission	-	-	-	7	3	10
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>22</b>	<b>68</b>	<b>58</b>	<b>148</b>
Ankle	>=7 days lost time/alternative duties	15	38	22	29	26	130
	Hospital inpatient admission	1	-	2	4	5	12
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>16</b>	<b>38</b>	<b>24</b>	<b>33</b>	<b>31</b>	<b>142</b>
Neck	>=7 days lost time/alternative duties	9	29	23	23	22	106
	Hospital inpatient admission	-	2	1	7	5	15
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>9</b>	<b>31</b>	<b>24</b>	<b>30</b>	<b>27</b>	<b>121</b>
Feet and toes	>=7 days lost time/alternative duties	5	23	22	26	17	93
	Hospital inpatient admission	4	5	9	4	4	26
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	1	-	-	1
	<b>Total</b>	<b>9</b>	<b>28</b>	<b>32</b>	<b>30</b>	<b>21</b>	<b>120</b>

## Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2010-11 continued

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Leg	>=7 days lost time/alternative duties	7	20	19	14	12	72
	Hospital inpatient admission	3	4	9	6	8	30
	Lost consciousness	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>11</b>	<b>24</b>	<b>28</b>	<b>20</b>	<b>20</b>	<b>103</b>
Multiple locations (more than one part of body)	>=7 days lost time/alternative duties	3	13	18	24	24	82
	Hospital inpatient admission	-	-	3	9	2	14
	Lost consciousness	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>3</b>	<b>14</b>	<b>21</b>	<b>33</b>	<b>26</b>	<b>97</b>
Arm/Forearm	>=7 days lost time/alternative duties	8	8	10	7	15	48
	Hospital inpatient admission	4	4	7	1	10	26
	Lost consciousness	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>12</b>	<b>12</b>	<b>18</b>	<b>8</b>	<b>25</b>	<b>75</b>
Wrist	>=7 days lost time/alternative duties	6	5	10	12	14	47
	Hospital inpatient admission	1	1	1	3	3	9
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>7</b>	<b>6</b>	<b>11</b>	<b>15</b>	<b>17</b>	<b>56</b>
Head (other than eye, ear and face)	>=7 days lost time/alternative duties	4	5	6	7	4	26
	Hospital inpatient admission	1	-	2	-	2	5
	Lost consciousness	1	3	1	5	-	10
	Entrapment	-	-	2	-	-	2
	Fatality	-	-	1	-	-	1
	<b>Total</b>	<b>6</b>	<b>8</b>	<b>12</b>	<b>12</b>	<b>6</b>	<b>44</b>
Trunk (other than back and excluding internal organ)	>=7 days lost time/alternative duties	7	4	7	4	5	27
	Hospital inpatient admission	4	2	3	2	2	13
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	1	-	-	1
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>11</b>	<b>6</b>	<b>11</b>	<b>6</b>	<b>7</b>	<b>41</b>
Elbow	>=7 days lost time/alternative duties	2	5	4	4	15	30
	Hospital inpatient admission	1	1	2	2	1	7
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>3</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>16</b>	<b>37</b>
Ribs	>=7 days lost time/alternative duties	-	5	6	11	4	26
	Hospital inpatient admission	-	1	1	1	2	5
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>6</b>	<b>7</b>	<b>12</b>	<b>6</b>	<b>31</b>

## Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2010-11 continued

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Face	>=7 days lost time/alternative duties	3	3	4	5	3	18
	Hospital inpatient admission	1	3	2	4	2	12
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>4</b>	<b>6</b>	<b>6</b>	<b>9</b>	<b>5</b>	<b>30</b>
General and unspecified locations	>=7 days lost time/alternative duties	2	-	10	1	4	17
	Hospital inpatient admission	-	3	2	3	1	9
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	1	1
	<b>Total</b>	<b>2</b>	<b>3</b>	<b>12</b>	<b>4</b>	<b>6</b>	<b>27</b>
Hip	>=7 days lost time/alternative duties	2	5	3	7	3	20
	Hospital inpatient admission	-	1	1	1	-	3
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	1	-	1
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>2</b>	<b>6</b>	<b>4</b>	<b>9</b>	<b>3</b>	<b>24</b>
Eye	>=7 days lost time/alternative duties	4	4	5	-	2	15
	Hospital inpatient admission	2	-	3	1	2	8
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>6</b>	<b>4</b>	<b>8</b>	<b>1</b>	<b>4</b>	<b>23</b>
Abdominal Muscles and Tendons	>=7 days lost time/alternative duties	-	-	1	11	5	17
	Hospital inpatient admission	-	-	-	3	2	5
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>14</b>	<b>7</b>	<b>22</b>
Thigh	>=7 days lost time/alternative duties	1	5	4	2	1	13
	Hospital inpatient admission	-	-	2	1	5	8
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>5</b>	<b>6</b>	<b>3</b>	<b>6</b>	<b>21</b>
Pelvis	>=7 days lost time/alternative duties	1	-	1	2	-	4
	Hospital inpatient admission	-	1	1	2	-	4
	Lost consciousness	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>-</b>	<b>9</b>
Shoulder-blade	>=7 days lost time/alternative duties	2	1	2	2	-	7
	Hospital inpatient admission	1	-	-	-	1	2
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>9</b>

## Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2010-11 continued

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Skull	>=7 days lost time/alternative duties	-	-	-	-	3	3
	Hospital inpatient admission	-	1	-	-	2	3
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	<b>1</b>	-	-	<b>5</b>	<b>6</b>
Internal organs (located in the trunk)	>=7 days lost time/alternative duties	-	2	1	-	-	3
	Hospital inpatient admission	-	-	2	1	-	3
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	<b>2</b>	<b>3</b>	<b>1</b>	-	<b>6</b>
Ear	>=7 days lost time/alternative duties	-	2	-	1	1	4
	Hospital inpatient admission	-	-	1	-	-	1
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>5</b>
Back - upper	>=7 days lost time/alternative duties	-	-	-	2	2	4
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	-	-	<b>2</b>	<b>2</b>	<b>4</b>
Back - other and multiple	>=7 days lost time/alternative duties	-	-	1	1	1	3
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	-	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>
Jaw	>=7 days lost time/alternative duties	-	-	-	1	-	1
	Hospital inpatient admission	-	-	-	1	-	1
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	-	-	<b>2</b>	-	<b>2</b>
Collar-bone	>=7 days lost time/alternative duties	-	1	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	<b>1</b>	-	-	-	<b>1</b>
Respiratory system	>=7 days lost time/alternative duties	-	-	-	1	-	1
	Hospital inpatient admission	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	-	-	-	<b>1</b>	-	<b>1</b>
<b>Total</b>		<b>230</b>	<b>506</b>	<b>528</b>	<b>548</b>	<b>526</b>	<b>2,338</b>

**Figure 186**  
Notifiable Injury Outcomes by Age Group mid 2006-07 to 2010-11

Age Group	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
<20	>=7 days lost time/alternative duties	-	8	6	4	11	29
	Hospital inpatient admission	-	-	1	2	6	9
	Lost consciousness	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>1</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>17</b>	<b>39</b>
20-29	>=7 days lost time/alternative duties	23	53	57	70	58	261
	Hospital inpatient admission	3	18	18	24	17	80
	Lost consciousness	-	1	2	1	-	4
	Entrapment	-	-	2	-	-	2
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>26</b>	<b>72</b>	<b>79</b>	<b>95</b>	<b>75</b>	<b>347</b>
30-39	>=7 days lost time/alternative duties	39	101	101	112	96	449
	Hospital inpatient admission	9	13	33	29	30	114
	Lost consciousness	-	1	1	1	-	3
	Entrapment	-	-	1	1	-	2
	Fatality	-	-	1	-	-	1
	<b>Total</b>	<b>48</b>	<b>115</b>	<b>137</b>	<b>143</b>	<b>126</b>	<b>569</b>
40-49	>=7 days lost time/alternative duties	60	120	110	114	126	530
	Hospital inpatient admission	12	18	23	29	26	108
	Lost consciousness	1	2	1	3	-	7
	Entrapment	-	-	-	-	1	1
	Fatality	-	-	1	-	-	1
	<b>Total</b>	<b>73</b>	<b>140</b>	<b>135</b>	<b>146</b>	<b>153</b>	<b>647</b>
50-59	>=7 days lost time/alternative duties	66	130	130	102	115	543
	Hospital inpatient admission	8	23	21	31	23	106
	Lost consciousness	1	1	-	1	-	3
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	1	-	1	2
	<b>Total</b>	<b>75</b>	<b>154</b>	<b>152</b>	<b>134</b>	<b>139</b>	<b>654</b>
60-69	>=7 days lost time/alternative duties	3	14	13	19	14	63
	Hospital inpatient admission	2	2	5	4	2	15
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>5</b>	<b>16</b>	<b>18</b>	<b>23</b>	<b>16</b>	<b>78</b>
>=70	>=7 days lost time/alternative duties	-	-	-	-	-	-
	Hospital inpatient admission	-	1	-	-	-	1
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>
Unknown	>=7 days lost time/alternative duties	2	-	-	-	-	2
	Hospital inpatient admission	-	-	-	1	-	1
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>3</b>
<b>Total</b>	<b>230</b>	<b>506</b>	<b>528</b>	<b>548</b>	<b>526</b>	<b>2,338</b>	



**Figure 187**

Notifiable Injury Outcomes by Employment Type mid 2006-07 to 2010-11

Employment Type	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Employee	>=7 days lost time/alternative duties	169	367	356	344	342	1,578
	Hospital inpatient admission	28	58	74	79	71	310
	Lost consciousness	2	4	4	5	-	15
	Entrapment	-	-	2	1	1	4
	Fatality	-	-	2	-	1	3
	<b>Total</b>		<b>199</b>	<b>429</b>	<b>438</b>	<b>429</b>	<b>415</b>
Contractor	>=7 days lost time/alternative duties	24	59	61	77	78	299
	Hospital inpatient admission	6	17	27	41	32	123
	Lost consciousness	1	1	-	1	-	3
	Entrapment	-	-	1	-	-	1
	Fatality	-	-	1	-	-	1
	<b>Total</b>		<b>31</b>	<b>77</b>	<b>90</b>	<b>119</b>	<b>110</b>
Other	>=7 days lost time/alternative duties	-	-	-	-	-	-
	Hospital inpatient admission	-	-	-	-	1	1
	Lost consciousness	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-
	<b>Total</b>		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>
<b>Total</b>		<b>230</b>	<b>506</b>	<b>528</b>	<b>548</b>	<b>526</b>	<b>2,338</b>

## Appendix A.8 Assessments

**Figure 188**

Coal Surface Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	141	151	134	104	86	111	156	165	191	181	239	244	1,903
Audit	18	20	10	12	21	11	69	44	33	48	103	27	416
Management Plans (Safety)	159	12	3	9	12	10	14	28	9	25	27	58	366
Investigation	-	5	3	1	5	1	7	4	6	6	3	4	45
Equipment	-	-	-	-	-	7	4	3	2	3	-	-	19
Airborne Dust	-	-	-	1	6	3	1	-	-	1	-	-	12
Verification	5	-	-	-	-	-	-	-	-	-	-	-	5
Resource Recovery (Safety)	-	-	-	-	-	-	-	-	-	-	1	-	1
<b>Total</b>	<b>323</b>	<b>188</b>	<b>150</b>	<b>127</b>	<b>130</b>	<b>143</b>	<b>251</b>	<b>244</b>	<b>241</b>	<b>264</b>	<b>373</b>	<b>333</b>	<b>2,767</b>

**Figure 189**

Coal Underground Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	379	322	270	206	196	299	361	235	271	283	280	258	3,360
Explosion Suppression	204	223	161	177	143	105	90	91	116	103	159	156	1,728
Audit	48	98	146	172	88	32	155	99	89	139	102	43	1,211
Management Plans (Safety)	260	39	9	30	29	44	82	105	34	29	30	21	712
Investigation	4	9	6	3	13	6	10	46	58	34	5	11	205
Airborne Dust	1	2	1	5	41	31	-	2	4	2	1	-	90
Equipment	-	-	-	-	-	17	5	11	3	8	1	6	51
Verification	4	-	2	1	-	-	1	-	-	-	-	1	9
Resource Recovery (Safety)	-	-	-	-	-	1	1	-	-	-	-	-	2
Closure	-	-	-	-	-	1	-	-	-	-	-	-	1
Seminar/Workshop	-	-	-	-	-	-	-	1	-	-	-	-	1
<b>Total</b>	<b>900</b>	<b>693</b>	<b>595</b>	<b>594</b>	<b>510</b>	<b>536</b>	<b>705</b>	<b>590</b>	<b>575</b>	<b>598</b>	<b>578</b>	<b>496</b>	<b>7,370</b>

**Figure 190**

Non-Coal Metalliferous Surface Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	23	31	49	51	45	73	45	41	43	44	58	41	544
Investigation	6	2	15	4	8	13	11	13	6	8	12	9	107
Audit	1	1	3	1	-	3	12	1	5	8	8	5	48
Verification	4	-	3	5	3	6	2	1	5	2	-	-	31
Management Plans (Safety)	1	1	1	2	-	3	3	1	1	1	3	4	21
Equipment	-	-	-	-	-	-	-	-	-	-	1	2	3
Resource Recovery (Safety)	-	-	-	-	-	3	-	-	-	-	-	-	3
Closure	1	-	-	-	-	-	-	-	-	-	-	-	1
<b>Total</b>	<b>36</b>	<b>35</b>	<b>71</b>	<b>63</b>	<b>56</b>	<b>101</b>	<b>73</b>	<b>57</b>	<b>60</b>	<b>63</b>	<b>82</b>	<b>61</b>	<b>758</b>

**Figure 191**

Non-Coal Metalliferous Underground Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	62	58	79	74	68	91	89	107	107	99	96	76	1,006
Investigation	10	15	18	17	10	10	5	30	22	13	21	10	181
Audit	4	5	5	9	9	3	12	15	26	10	21	18	137
Verification	2	2	9	2	3	2	3	12	6	2	2	2	47
Management Plans (Safety)	3	-	1	2	3	4	1	2	6	2	7	4	35
Equipment	-	-	-	-	-	2	1	4	-	-	9	7	23
<b>Total</b>	<b>81</b>	<b>80</b>	<b>112</b>	<b>104</b>	<b>93</b>	<b>112</b>	<b>111</b>	<b>170</b>	<b>167</b>	<b>126</b>	<b>156</b>	<b>117</b>	<b>1,429</b>

**Figure 192**

Non-Coal Extractives Surface Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	456	463	543	578	475	554	577	655	702	723	712	714	7,152
Audit	2	7	14	8	57	49	34	44	61	84	148	85	593
Verification	129	31	12	10	4	1	8	3	1	4	1	2	206
Management Plans (Safety)	3	-	9	16	9	22	16	10	2	12	45	30	174
Investigation	13	10	10	10	13	12	22	13	13	10	6	6	138
Equipment	3	-	-	-	-	6	4	1	2	3	3	2	24
Airborne Dust	-	-	-	-	-	-	-	-	4	5	-	-	9
Seminar/Workshop	-	-	-	-	-	-	5	-	2	1	-	-	8
Closure	-	-	-	-	-	-	2	3	-	-	2	-	7
<b>Total</b>	<b>606</b>	<b>511</b>	<b>588</b>	<b>622</b>	<b>558</b>	<b>644</b>	<b>668</b>	<b>729</b>	<b>787</b>	<b>842</b>	<b>917</b>	<b>839</b>	<b>8,311</b>

**Figure 193**

Non-Coal Extractives Underground Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	1	1	5	5	7	8	7	9	14	5	8	11	81
Audit	-	-	-	-	-	-	-	2	2	2	1	1	8
Investigation	-	-	-	-	1	1	1	1	-	-	1	-	5
Management Plans (Safety)	-	-	-	-	-	-	1	-	-	-	-	-	1
<b>Total</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>8</b>	<b>9</b>	<b>9</b>	<b>12</b>	<b>16</b>	<b>7</b>	<b>10</b>	<b>12</b>	<b>95</b>

**Figure 194**

Non-Coal Other Surface Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	11	6	5	3	1	1	5	26	5	8	12	19	102
Audit	1	-	-	-	-	-	-	1	1	-	-	1	4
Investigation	-	2	-	1	-	-	-	-	-	-	-	-	3
Verification	1	-	-	-	-	-	-	-	-	1	-	-	2
Mech Equip Mobile	1	-	-	-	-	-	-	-	-	-	-	-	1
<b>Total</b>	<b>14</b>	<b>8</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>27</b>	<b>6</b>	<b>9</b>	<b>12</b>	<b>20</b>	<b>112</b>

**Figure 195**

Non-Coal Other Underground Assessments by Event Subtype 1999-00 to 2010-11

Event Subtype	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
Inspection (Mine Safety)	6	3	15	9	19	9	8	1	19	4	7	9	109
Audit	1	3	3	13	3	-	-	-	1	-	-	-	24
Equipment	-	-	-	-	-	2	-	-	-	-	2	-	4
Management Plans (Safety)	-	-	1	-	-	-	-	-	-	-	-	-	1
<b>Total</b>	<b>7</b>	<b>6</b>	<b>19</b>	<b>22</b>	<b>22</b>	<b>11</b>	<b>8</b>	<b>1</b>	<b>20</b>	<b>4</b>	<b>9</b>	<b>9</b>	<b>138</b>

## Appendix A.9 Enforcement and Advice Notices

**Figure 196**

Coal Surface and Underground Enforcement and Advice Notices by Notice Category and Type  
1999-00 to 2010-11

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	2010-11	Total	
Coal Surface	Advice/Improvement	CMRA S 61	38	34	28	12	9	32	25	29					207	
		CMHSA S 150								46	94	60	132	296	628	
		OHSA S 91							1	5	10	4	24	5	49	
		Total	38	34	28	12	9	32	26	80	104	64	156	301	884	
	Prohibition	CMRA S 63	13	10	18	7	2	18	9	-					77	
		CMHSR CI 51								6	10	27	30	15	88	
		OHSA S 93								-	2	-	3	4	9	
		Total	13	10	18	7	2	18	9	6	12	27	33	19	174	
	Investigation	OHSA S 62								1	1	-	1	6	9	
		OHSA S 70								-	-	-	-	1	1	
		OHSA S 72								-	-	-	-	-	-	
		OHSA S 89								-	-	1	-	-	1	
		Total	-	-	-	-	-	-	-	-	1	1	1	1	7	11
	Total		51	44	46	19	11	50	35	87	117	92	190	327	1,069	
	Coal Underground	Advice/Improvement	CMRA S 61	272	230	154	125	122	139	92	94					1,228
CMHSA S 150											88	149	194	342	401	1,174
OHSA S 91									4	27	15	18	25	15	104	
Total			272	230	154	125	122	139	96	209	164	212	367	416	2,506	
Prohibition		CMRA S 63	24	29	18	31	14	27	17	15					175	
		CMHSR CI 51								10	50	53	59	45	217	
		OHSA S 93								-	8	7	4	4	26	
		Total	24	29	18	31	14	27	17	33	57	57	63	48	418	
Investigation		OHSA S 62								-	-	2	1	5	8	
		OHSA S 70								-	-	-	-	-	-	
		OHSA S 72								-	-	-	-	-	-	
		OHSA S 89								7	1	6	1	1	16	
		Total	-	-	-	-	-	-	-	-	7	1	8	2	24	
Total			296	259	172	156	136	166	113	249	222	277	432	470	2,948	
Total			347	303	218	175	147	216	148	336	339	369	622	797	4,017	

**Figure 197**

Non-Coal Metalliferous Surface and Underground Enforcement and Advice Notices by Notice Category and Type 1999-00 to 2010-11

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	2010-11	Total	
Metalliferous Surface	Advice/Improvement	MIA S 36B	-	2	5	8	-	9	5	7	20	2			58	
		MHSA S 131										6	22	24	52	
		OHSA S 91								-	1	1	1	-	2	5
		Total	-	2	5	8	-	9	5	8	21	9	22	26	115	
	Prohibition	MIA S 37	1	-	1	-	-	-	1	-	-	-	-	-	-	3
		MIA S 37A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		MHSR CI 158														-
		OHSA S 93								1	4	2	-	1	2	10
		Total	1	-	1	-	-	-	2	4	2	-	1	2	13	
	Investigation	OHSA S 62									-	2	-	-	-	2
		OHSA S 70									-	1	-	-	-	1
		OHSA S 72									-	1	1	-	-	2
		OHSA S 89									-	-	-	-	-	-
		Total	-	-	-	-	-	-	-	-	4	1	-	-	-	5
	Explosives	EXPLR CI 99									-	-	-	-	-	-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total			1	2	6	8	-	9	7	12	27	10	23	28	133
	Metalliferous Underground	Advice/Improvement	MIA S 36B	-	-	-	5	3	2	8	10	33	7			68
			MHSA S 131										22	44	34	100
			OHSA S 91								2	-	3	1	-	7
Total			-	-	-	5	3	2	10	10	36	30	44	35	175	
Prohibition		MIA S 37	-	1	1	-	-	-	-	-	-	-	-	-	-	2
		MIA S 37A	-	2	-	-	1	2	2	-	2	-	-	-	-	9
		MHSR CI 158											4	4	1	9
		OHSA S 93								1	1	4	2	1	1	10
		Total	-	3	1	-	1	2	3	1	6	6	5	2	30	
Investigation		OHSA S 62									8	-	-	-	1	9
		OHSA S 70									-	-	-	-	-	
		OHSA S 72									-	-	1	-	-	1
		OHSA S 89									-	-	2	-	1	3
		Total	-	-	-	-	-	-	-	-	8	-	3	-	2	13
Explosives		EXPLR CI 99														-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	3	1	5	4	4	13	19	42	39	49	39	218	
Total			1	5	7	13	4	13	20	31	69	49	72	67	351	

**Figure 198**

Non-Coal Extractives Surface and Underground Enforcement and Advice Notices by Notice Category and Type 1999-00 to 2010-11

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	2010-11	Total	
Extractives Surface	Advice/Improvement	MIA S 36B	1	47	44	112	120	154	155	177	277	52			1,139	
		MHSA S 131										296	481	495	1,272	
		OHSA S 91							11	38	77	70	85	40	321	
		Total	1	47	44	112	120	154	166	215	354	418	566	535	2,732	
	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	37	73	
		OHSA S 93							9	43	29	15	24	8	128	
		Total	7	8	6	10	12	22	18	46	35	26	49	45	284	
	Investigation	OHSA S 62									-	-	-	4	4	
		OHSA S 70									-	-	-	-	-	
		OHSA S 72									-	-	-	-	-	
		OHSA S 89									-	-	-	1	1	
	Total	-	-	-	-	-	-	-	-	-	-	-	4	1	5	
	Explosives	EXPLR CI 99									1	-	-	-	1	
		Total	-	-	-	-	-	-	-	-	1	-	-	-	1	
	Total		8	55	50	122	132	176	184	262	389	444	619	581	3,022	
	Extractives Underground	Advice/Improvement	MIA S 36B	-	-	-	-	1	2	-	2	5	-			10
			MHSA S 131										1	2	5	8
			OHSA S 91							1	-	-	-	-	-	1
Total			-	-	-	-	1	2	1	2	5	1	2	5	19	
Prohibition		MIA S 37	-	-	-	-	-	-	-	-	-	-	-	-	-	
		MIA S 37A	-	-	-	-	1	-	-	-	-	-	-	-	1	
		MHSR CI 158													-	
		OHSA S 93													-	
		Total	-	-	-	-	1	-	-	-	-	-	-	-	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	5	20	
Total			8	55	50	122	134	178	185	264	394	445	621	586	3,042	

**Figure 199**

Non-Coal Other Enforcement and Advice Notices by Notice Category and Type 1999-00 to 2010-11

Sector	Enforcement Category	Enforcement Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Total
NonCoal Other	Advice/Improvement	MIA S 36B	-	-	-	1	1	-	1	-	2	-			5
		MHSA S 131										4	7	19	30
		OHSA S 91									2	5	1	-	8
		Total	-	-	-	1	1	-	1	2	7	5	7	19	43
	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	19	76

**Figure 200**

Petroleum (Onshore) Enforcement and Advice Notices by Notice Category and Type 1999-00 to 2010-11

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

## APPENDIX B ADDITIONAL INFORMATION

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

**Figure 201**  
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 202**  
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 203**  
COMET Incident Event Subtypes

Incident Event Subtype	Description
<b>Dust</b>	dust ignition; sulphide dust explosion; silica exposure
<b>Electrical energy</b>	electrical energy (electric shock); burns caused by electrical heat; outbreak of fire due to electricity; unplanned movement due to electricity
<b>Explosives</b>	explosives general (ejection of flyrock); fault with an explosive; misfire – significant
<b>Gas</b>	gas ignition; asphyxiate gases such as CO <sub>2</sub> ; poisonous gases such as H <sub>2</sub> S or CO; explosive gases such as H <sub>2</sub> ; flammable gases.
<b>Hazardous materials</b>	scolding, injection of hydraulic fluid, flammable / explosive liquids, liquid chemicals, etc
<b>Mechanical equipment fixed</b>	winding systems, crushers, screens, conveyors, guarding, etc.
<b>Mechanical equipment mobile</b>	mobile plant
<b>Self heating</b>	spontaneous combustion involving increase in temperature of coal or other combustible material from the oxidation process
<b>Strata control</b>	fall of roof or sides, slope stability – High wall, Windblast
<b>Structural failure</b>	Infrastructure failure – bins, buildings, etc
<b>Water</b>	inrush of water
<b>Work Environment</b>	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 204**

COMET Incident Types under former and current legislation

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

\* indicates repealed legislation

## Appendix B.4 Serious Bodily Injury Types and Relevant Legislation

**Figure 205**

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 206**

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 207**

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

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

## Appendix B.5 Notifiable Injury Outcomes and Relevant Legislation

**Figure 208**

Notifiable Injury Outcomes under current legislation

Notifiable Outcome	Legislation		
<b>Fatality</b>	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
<b>Lost consciousness</b>	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
<b>Hospital inpatient admission</b>	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
<b>Entrapment</b>	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><b>&gt;=7 days lost time and/or alternative duties</b></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 209**

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)	<b>Entombment person 34(1)(j)</b> 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)	<b>Damage failure haulage 34(1)(f)</b> 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	<b>Failure structure 16(1)(h)</b> A failure or collapse of any structure such as to endanger persons or property <b>Failure structure 34A(1)(c)</b> A failure or collapse of any structure such as to endanger persons or property <b>Failure structure 83(1)(d)</b> 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	<b>Failure high-lowwall etc 16(1)(g)</b> 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	<b>Unplanned movement 16(1)(f)</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 <b>Unplanned movement 34A(1)(b)</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 <b>Unplanned movement 83(1)(c)</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	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><b>Elect shock 16(1)(d)</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> <p><b>Elect shock 34A(1)(a)</b> 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><b>Elect shock 83(1)(b)</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)	<b>Ignition gas dust (34)(1)(a)</b> 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)	<b>Ignition explosives 34(1)(h)</b> 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><b>Outbreak fire 16(1)(a)</b> An outbreak of fire endangering persons or causing serious property damage</p> <p><b>Outbreak fire self heat 34(1)(b)</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><b>Outbreak fire 83(1)(a)</b> 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><b>Outburst 34(1)(e)</b> 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><b>Inrush 16(1)(c)</b> An abnormal inrush of water, or material that flows when wet, from any source such as to endanger persons or property</p> <p><b>Inrush 34(1)(d)</b> 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><b>Flyrock 16(1)(j)</b> The ejection of flyrock outside the boundary of a mine's lease area during shotfiring 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)	<b>Self heat 16(1)(b)</b> Initial self-heating of the coal strata or overburden in a part of a mine <b>Outbreak fire self heat 34(1)(b)</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)	<b>Failure ventilation 34(1)(c)</b> 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	<b>Fall roof sides 34B(1)(b)</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	<b>Windblast 34B(1)(c)</b> 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	<b>Entrapment breaker line 34B(1)(e)</b> 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	<b>Entrapment cont miner 34B(1)(d)</b> 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	<b>Creep 34B(1)(f)</b> 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	<b>Arcing on electric cable 34B(1)(a)</b> 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	<b>Failure explosion protection 34B(1)(g)</b> 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	<b>Injury from Blasting 16(1)(e)</b> 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)	<b>Pillar collapse 34(1)(i)</b> A sudden pillar collapse	CI 56(1)(q)	A sudden pillar collapse	Same
CMOCR 1999, CI 16	<b>Insurge gas 16(1)(i)</b> An insurge of noxious or flammable gas from old workings			Deleted

**Figure 210**

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	<b>Structural Failure</b> 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)	<b>Unplanned movement due to electricity CI 68(5)(d)</b> 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)	<b>Burns caused by electrical heat CI 68(5)(b)</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)	<b>Electric shock CI 68(5)(a)</b> 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)	<b>Outbreak of fire due to electrical equipment CI 68(5)(c)</b> any fire caused by the malfunction of electrical equipment			
MIGR 2000 Dangerous Incident	<b>Outbreak of Fire U/G</b> 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	<b>Fixed Equipment – fire (surface)</b> 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	<b>Fixed Equipment – fire (underground)</b> 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	<b>Mobile Plant – fires on equipment (surface)</b> 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	<b>Mobile Plant – fires on equipment (underground)</b> 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	<b>Ventilation U/G – dust (including sulphide)</b> 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)	<b>Inrush of Water, Material or Gas CI 25(d)</b> 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	<b>Mobile Plant – general transport/traffic</b> 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)	<b>Ejection of Flyrock CI 64(2)</b> 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	<b>Winding systems</b> 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	<b>Rock falls – (major) Ground Movement</b> 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	<b>Airblast</b> 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	<b>Hazardous chemicals</b> 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)	<b>Misfire – significant CI 65(1)</b> 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><b>Fault with an explosive CI 66(2)</b> 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><b>Explosives – NEC</b> 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><b>Slope stability</b> 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><b>Guarding – conveyors</b></p> <p><b>Isolation of energy</b></p> <p><b>Mobile Plant – tyres, rims</b></p> <p><b>Ventilation U/G – fumes</b></p> <p><b>Working at height</b></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 211**  
COMET Assessment Event Subtypes

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

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

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

Figure 212  
Enforcement and Advice Notice Categories and Types

Enforcement and Advice Notice Category	Legislation and Enforcement and Advice 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 213**  
Sources of NSW Data

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

**Figure 214**  
Sources of Other National and International Data

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



## **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.*

- NSW Trade & Investment – Mine Safety  
[www.dpi.nsw.gov.au/minesafety](http://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](http://www.minerals.org.au/safety/safety_and_health_performance/index.html)
- Safe Work Australia data and statistics  
<http://safeworkaustralia.gov.au/AboutSafeWorkAustralia/WhatWeDo/Statistics/Pages/Statistics.aspx>
- National Data Set for Compensation-based Statistics (NDS) - National Online Statistics Interactive (NOSI)  
(NB NOSI has been decommissioned. See Safe Work Australia.)
- USA Mine Health and Safety Administration  
<http://www.msha.gov/>
- Association of Workers Compensation Boards of Canada  
<http://www.awcbc.org/en/nationalworkinjuriesstatisticsprogramnwis.asp/>
- South Africa Department of Minerals and Energy – Mine Safety statistics  
<http://www.dmr.gov.za/mine-health-a-safety.html>

## Industry & Investment NSW – Mine Safety

PO Box 344  
Hunter Region Mail Centre NSW 2310

Telephone: (02) 4931 6666

Website: [www.dpi.nsw.gov.au/minesafety](http://www.dpi.nsw.gov.au/minesafety)

Email: [mine.safety@industry.nsw.gov.au](mailto:mine.safety@industry.nsw.gov.au)

## Regional Offices

### Maitland

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

### Lightning Ridge

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

### Thornton

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

### Armidale

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

### Lithgow

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

### Wollongong

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

### Broken Hill

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

### Orange

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

### Cobar

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

### Singleton

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





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