



**Trade &
Investment**
Mine Safety



NSW Mine Safety Performance Report

2011 – 2012

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DEFINITIONS

Injury Classifications

Fatal Injury (FI)

An injury that results in death.

Lost Time Injury (LTI)

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

Medical Treatment Injury (MTI)

An injury requiring medical treatment.

Restricted Duty Injury (RDI)

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

Total Recordable Injuries (TRI)

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

Serious Bodily Injury (SBI)

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

Serious Bodily Injury (SBI) – Coal

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

Serious Injury (SI) – Non-Coal

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

Serious Injury (SI) – Petroleum (Onshore)

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

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

Notifiable Injury Outcomes

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

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

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

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

Frequency Rates

Fatal Injury Frequency Rate (FIFR)

The number of fatal injuries per million hours worked.

Lost Time Injury Frequency Rate (LTIFR)

The number of lost time injuries per million hours worked.

Serious Bodily Injury Frequency Rate (SBIFR)

The number of serious bodily injuries per million hours worked.

Total Recordable Injury Frequency Rate (TRIFR)

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

Five-Year Average

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

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

Refer to Appendix B.9 for Sources of Data

Enforcement and Advice Notices

Advice/Improvement Notice

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

Prohibition Notice

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

Investigation Notice

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

Explosives Notice

Notice regarding certain powers of inspectors in relation to explosives.

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

Current Legislation

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

COMET DATABASE TERMS

COMET

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

Event

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

Event Type

This report covers Incident and Assessment events.

Event Subtype

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

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

Incident

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

Notifiable Incident

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

Non-Notifiable Incident – High Potential Incident or Complaint

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

Incident Type

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

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

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

Incident Subtype

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

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

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

Incident Investigation Level

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

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

Level 2 – Official to attend mine.

Level 3 – Detailed investigation suitable for further action.

Assessment

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

Mine Type

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

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

Mine Operation Type

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

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

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

1 EXECUTIVE SUMMARY

This report summarises the incidents and injuries notified to NSW Trade & Investment by the NSW Mining and Extractives industry, and the assessments conducted and enforcements and advice issued by the NSW Mine Safety inspectorate in the 2011-2012 financial year, set against thirteen 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 the Coal, Metalliferous and Extractives sectors.

In 2011-12 all sectors were fatality free.

The five year average fatal injury frequency rate to June 2012 decreased 25% for coal and fell to zero for metalliferous and extractives. Overall, the five year average fatal injury frequency rate (FIFR) to June 2012 fell by 65.1% compared to June 2007.

The overall five year average frequency rates of lost time injuries and serious bodily injuries continued their downward trend of the past decade. There were 2.3% fewer lost time injuries in 2011-12 than in the previous year. The overall five year average lost time injury frequency rate (LTIFR) to June 2012 fell 58.4% compared to June 2007 and reached a record low of 6.45. There was a 43.2% increase in the number of coal, metalliferous and extractives serious bodily injuries in 2011-12, however the five year average serious bodily injury frequency rate (SBIFR) for 2011-12 fell by 55.8% compared to June 2007 and also reached a record low of 0.73. There were 3.3% fewer total recordable injuries in 2011-12 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.

2011-12 was the fifth complete year under the current coal legislation which commenced in mid 2006-07. The current legislation generates more coal incident notifications than the former legislation due to new reporting requirements (including escape of fluid under pressure, unintended plant and vehicle movements and incidents with an injury that had a notifiable outcome) and reporting where thresholds became more inclusive (including gas detection, evidence of electrical arcing, explosive misfires and failure of explosion-protection equipment). Nine times the number of coal incidents were notified in 2011-12 than the average notified for the last five years (2001-02 to 2005-06) under the former legislation and almost 70% of all incidents occurred in the coal underground sector.

2011-12 was the third complete year under the current non-coal legislation which commenced in the second quarter of 2008-09, also with some new and more inclusive reporting requirements. The number of metalliferous and extractives incidents in 2011-12 was 41% higher than the average notified for the last five years (2003-04 to 2007-08) under the former legislation.

In 2011-12, 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 all were related to the work environment or mobile mechanical plant.

In 2011-12, the most common causes of injuries with notifiable outcomes (mainly hospital inpatient admission or seven days of lost time and/or alternative duties) were muscular stressing, falls (including slips and trips) or being hit by moving or falling objects. The most common natures of injury were sprains and strains. Hand and finger injuries featured prominently, 79% 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 2011-12 all sectors were fatality free.

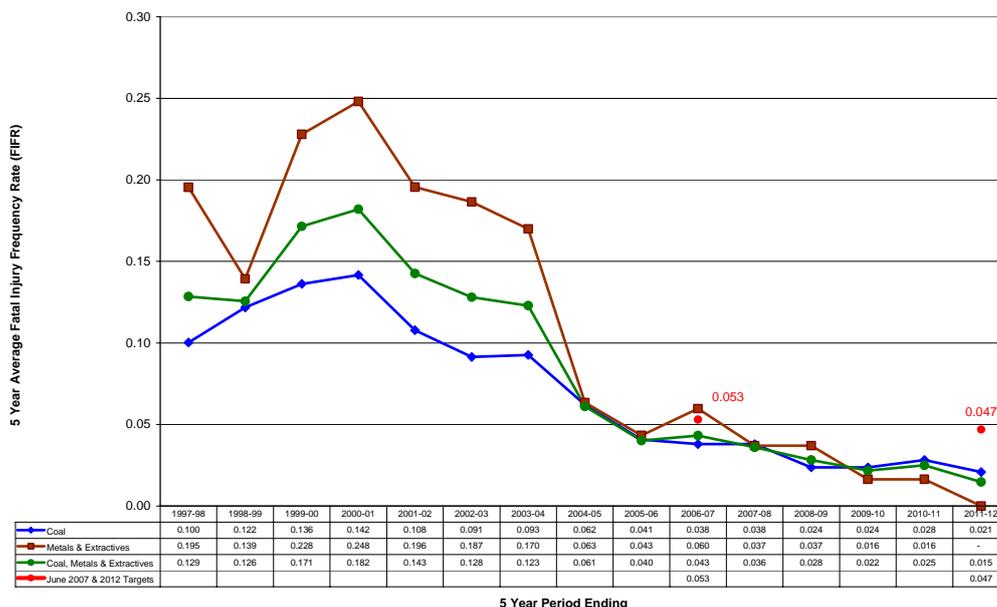
The fatality-reduction targets were defined as reducing the Coal, Metalliferous & Extractives Five Year Average Fatal Injury Frequency Rate (FIFR) to 0.053 by June 2007 and to 0.047 by June 2012 (number of fatal injuries per million hours worked).

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 2012 was 0.015. This was an improvement of 65.1% compared to the 0.043 recorded for the five years to June 2007 and is 68.1% 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 2011-12
June 2012 National Target was 0.047



Lost Time Injuries

The overall Five Year Average Lost Time Injury Frequency Rate (LTIFR) to June 2012 reached a record low of 6.45 and was down 58.44% from the 15.52 recorded for the five years to June 2007.

The Five Year Average Lost Time Injury Frequency Rate to June 2012 in each of the Coal, Metalliferous and Extractives sectors was down from the rate for the five years to June 2007, and both the Coal and Metalliferous sectors recorded record lows.

However, during the past three years the Extractives sector rate has risen, with the rate of 10.37 recorded for the five years to June 2012 at 23.31% higher than the second lowest rate of 8.41 recorded for the five years to June 2009.

Figure 2

NSW Coal, Metalliferous & Extractives 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12

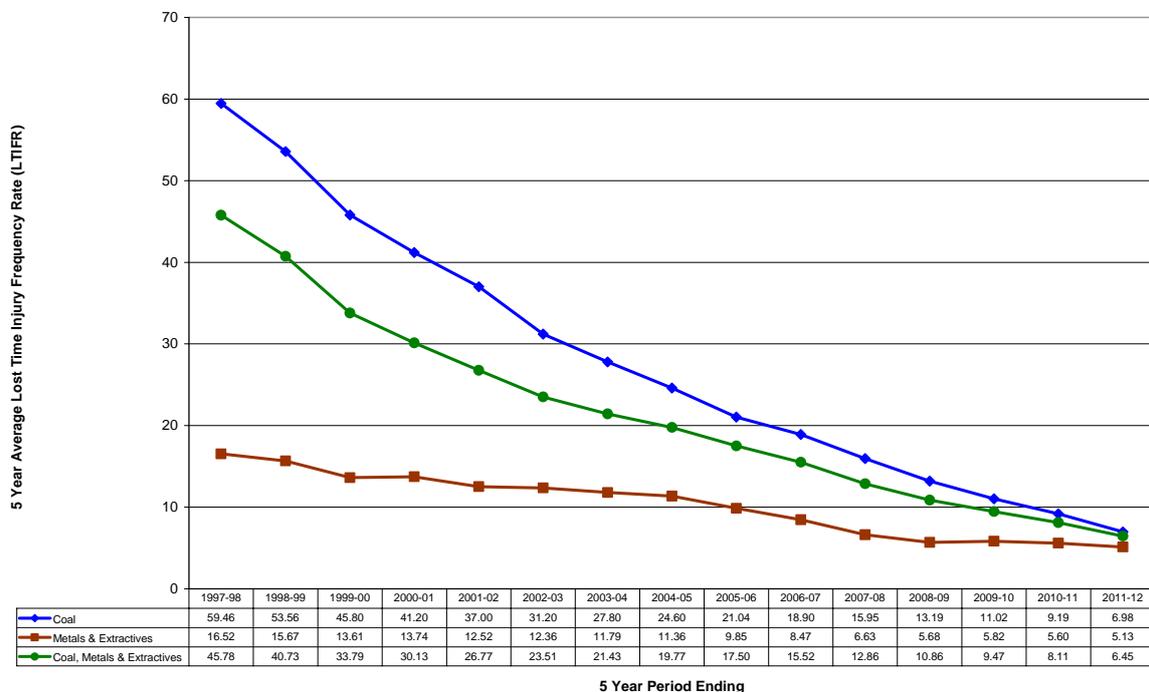


Figure 3
NSW Coal 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12

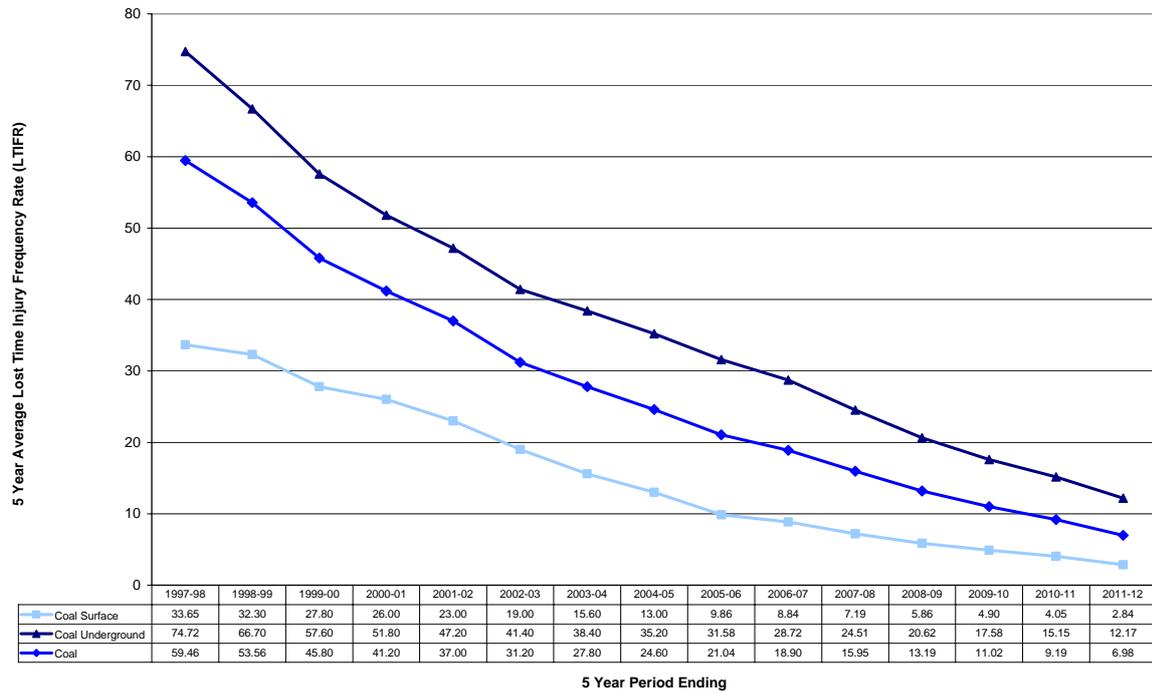
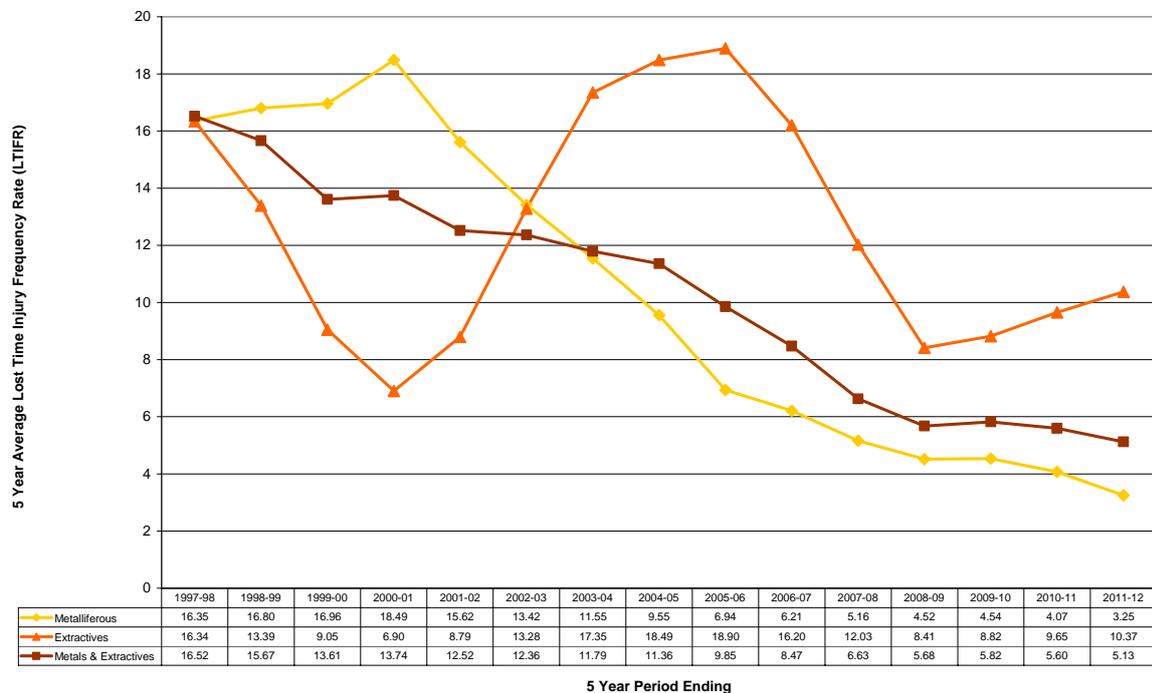


Figure 4
NSW Metalliferous and Extractives 5 Year Average Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12



Serious Bodily Injuries

The overall Five Year Average Serious Bodily Injury Frequency Rate (SBIFR) June 2012 reached a record low of 0.73 and was down 55.75% from the 1.65 recorded for the five years to June 2007.

The Five Year Average Serious Bodily Injury Frequency Rate in each of the Coal, Metalliferous and Extractives sectors was down from the five years to June 2007, and record lows were recorded in each of the three sectors.

Figure 5

NSW Coal, Metalliferous & Extractives 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2001-02 to 2011-12

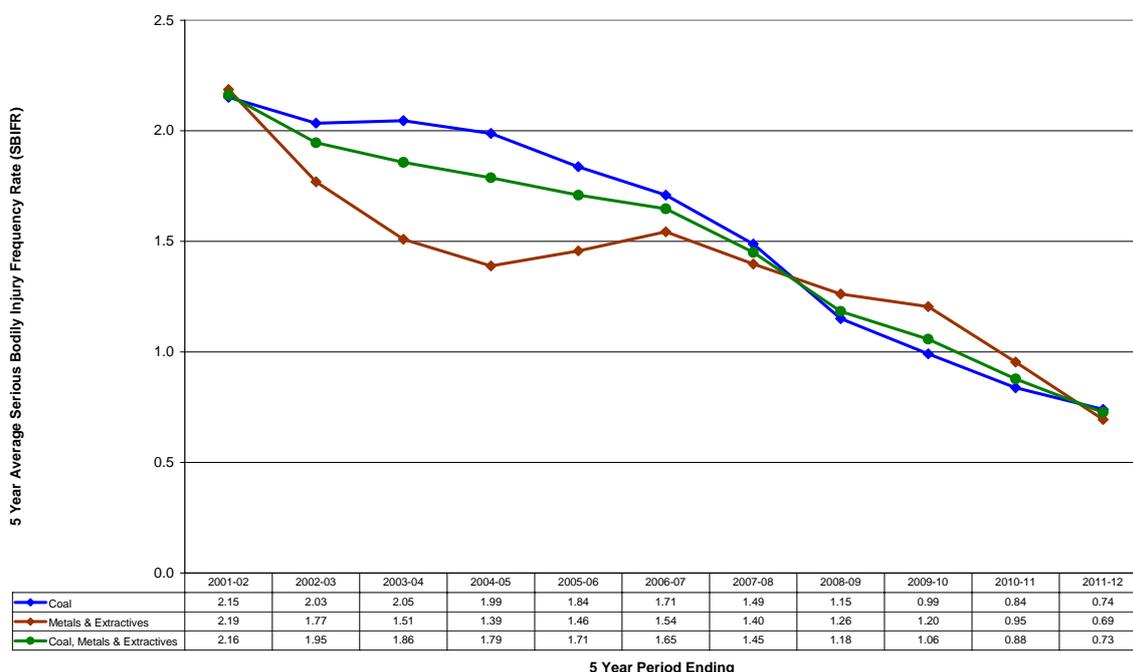


Figure 6
NSW Coal 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2001-02 to 2011-12

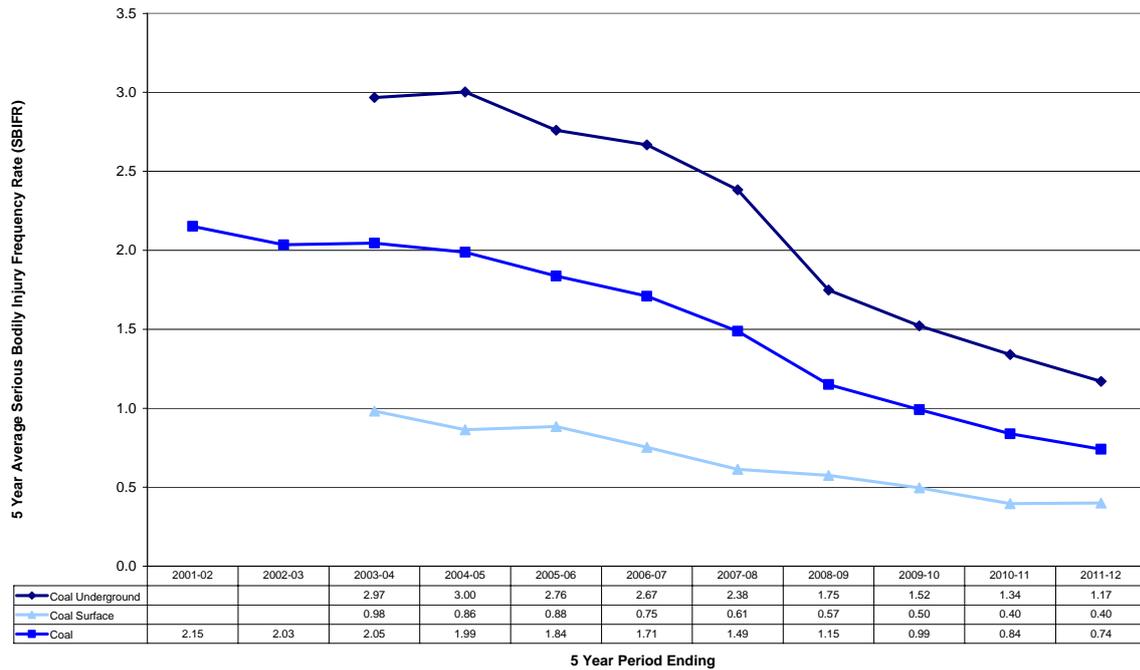
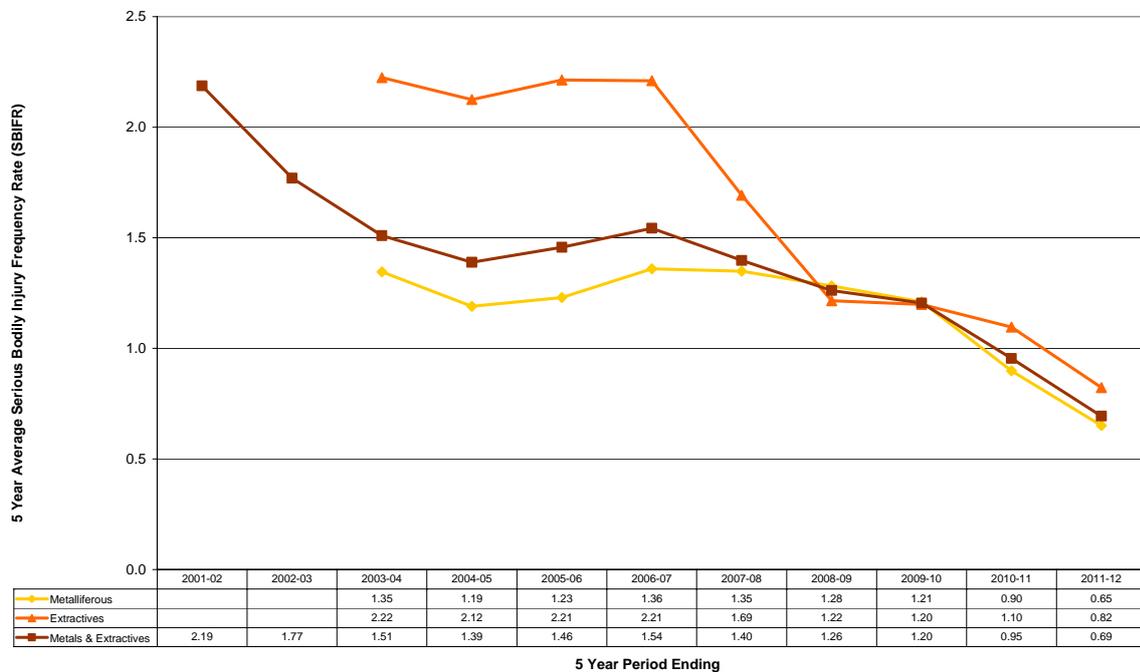


Figure 7
NSW Metalliferous and Extractives 5 Year Average Serious Bodily Injury Frequency Rate (SBIFR) 2001-02 to 2011-12



2 INTRODUCTION

Purpose

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

Objectives

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

About NSW Trade & Investment - Mine Safety

The NSW Department of Trade & Investment, Regional Infrastructure & Services (NSW Trade & Investment) is the statutory 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.resources.nsw.gov.au/safety
- NSW Mine Safety Advisory Council
www.nswminesafety.com.au

The COMET Database

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

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

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

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

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

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

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

3 MINES

3.1 Mines

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

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

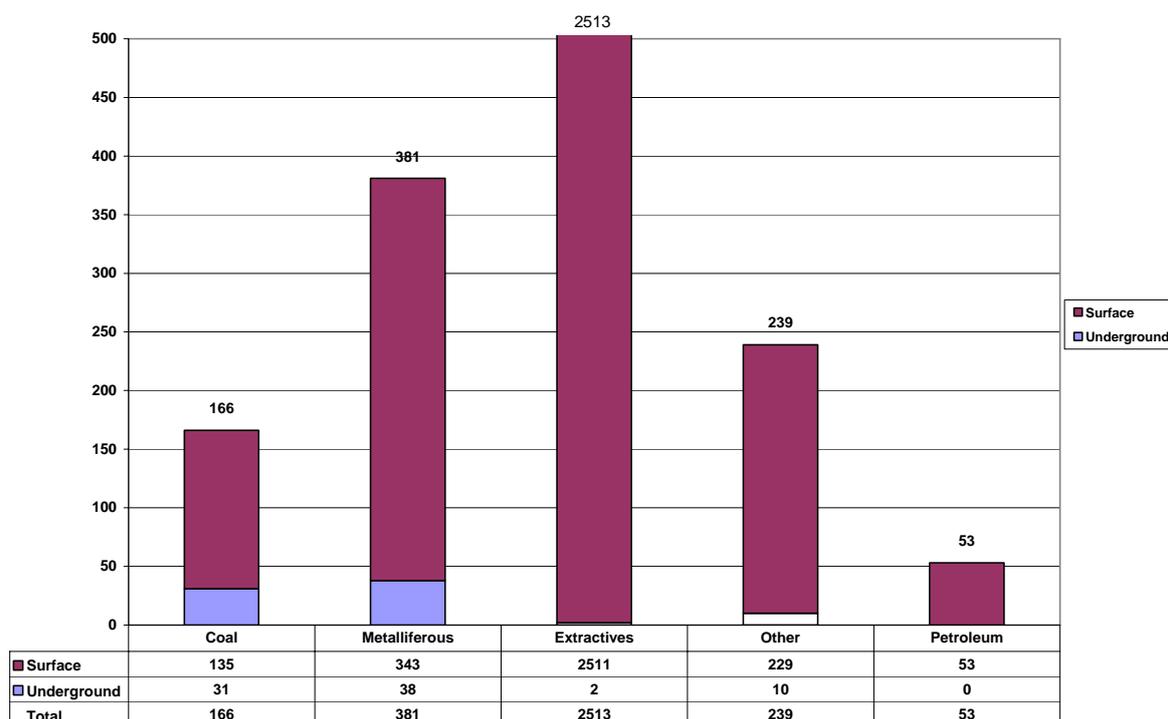
There are also approximately 3,500 opal claims, including 800 residential claims, registered in NSW, of which fewer than 1,000 are worked during a typical year. These are not included in the number of mines below.

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

3.1.1 Number of Mines by Mining Sector and Mine Operation Type

Figure 8

Number of Mines by Mining Sector and Mine Operation Type 2011-12



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

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

4 INCIDENTS

4.1 All Incidents

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

In 2011-12:

- The number of incidents notified was 5.6 times the average number of incidents notified for the five years (2001-02 to 2005-06) under the former legislation. This increase reflects the new and more inclusive reporting requirements of the current legislation.
- Almost 70% of all incidents occurred in the coal underground sector.

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

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

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

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

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

4.1.1 All Incidents by Sector

Figure 9

All Incidents by Sector 1999-00 to 2011-12

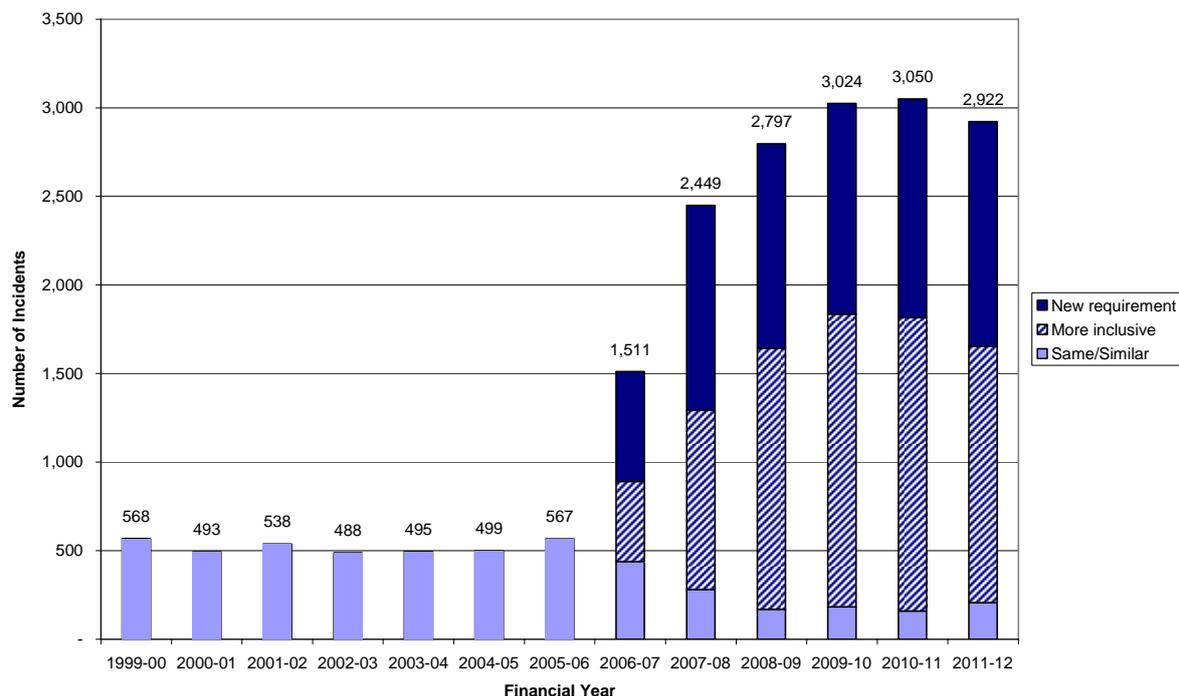
*NB Increase from mid 2006-07 due to requirements of CMHSR 2006 from mid 2006-07 and MHSR 2007 from Q2 2008-09
"Unknown" refers to incidents reported by non-mine organisations*

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	2011-12	Total
Coal	269	297	313	252	279	266	339	1,283	2,249	2,568	2,742	2,767	2,615	16,239
Metalliferous	177	119	141	132	136	147	155	149	130	146	185	164	199	1,980
Extractives	102	71	74	97	72	83	68	71	64	74	79	106	104	1,065
Non-Coal Other	9	2	1	3	4	1	3	1	2	2	4	2	1	35
Petroleum (Onshore)	1	1	2	-	1	-	-	3	-	3	12	6	1	30
Unknown	10	3	7	4	3	2	2	4	4	4	2	5	2	52
Total	568	493	538	488	495	499	567	1,511	2,449	2,797	3,024	3,050	2,922	19,401

Figure 10

All Incidents 1999-00 to 2011-12

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



4.1.2 All Incidents by Operation Type

Figure 11

All Incidents by Surface / Underground Operation 1999-00 to 2011-12

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	2011-12	Total
Underground	282	298	331	287	295	320	366	1,225	2,027	2,287	2,467	2,388	2,181	14,754
Surface	276	192	200	197	197	177	199	282	418	506	555	657	739	4,595
Unknown	10	3	7	4	3	2	2	4	4	4	2	5	2	52
Total	568	493	538	488	495	499	567	1,511	2,449	2,797	3,024	3,050	2,922	19,401

Figure 12

All Surface Incidents 1999-00 to 2011-12

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

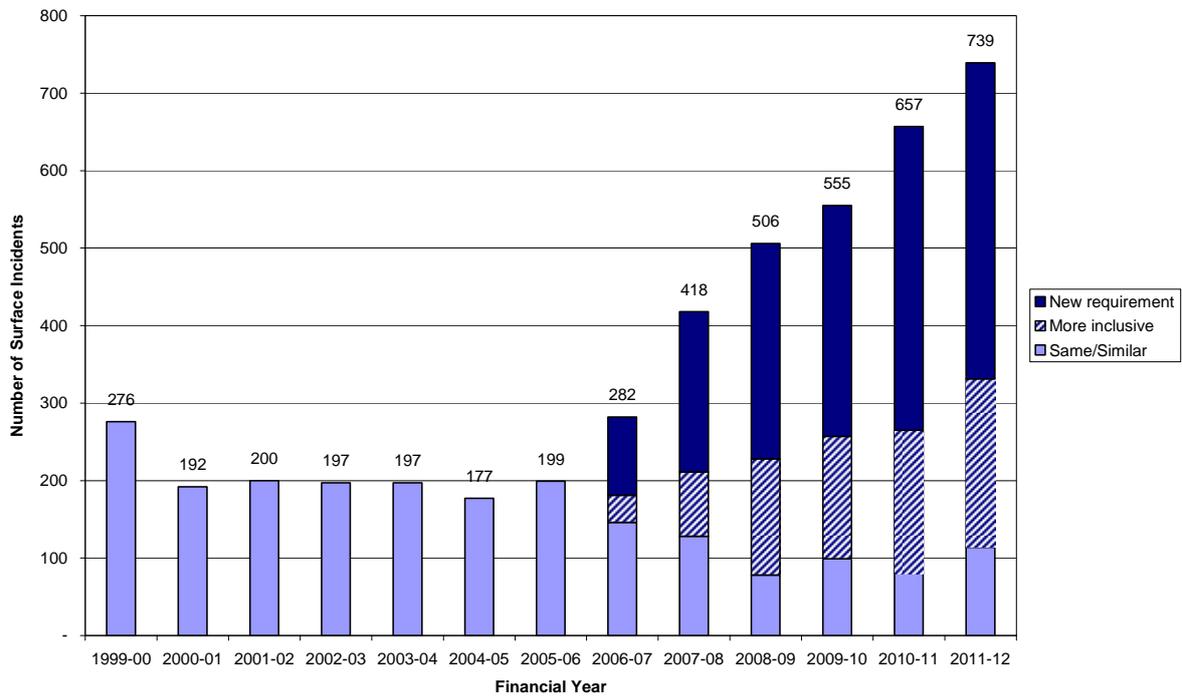
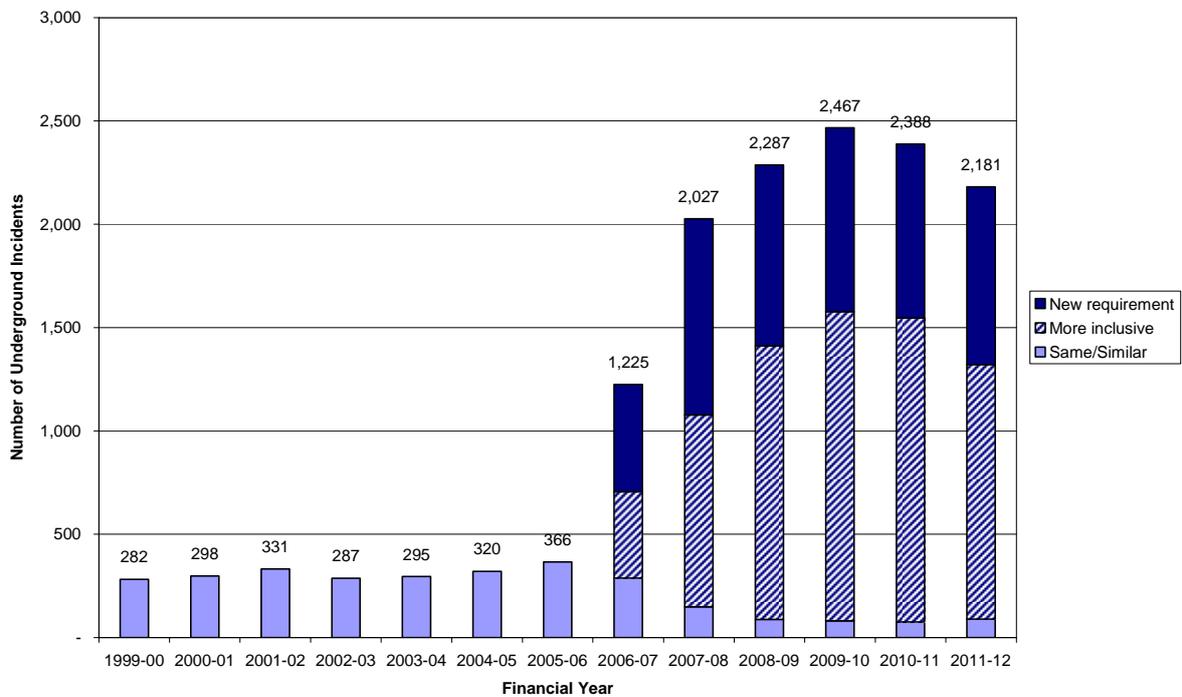


Figure 13

All Underground Incidents 1999-00 to 2011-12

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



4.1.3 All Incidents by Incident Investigation Level

Figure 14

All Incidents by Incident Investigation Level 1999-00 to 2011-12

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	2011-12	Total
Level 1 - No need to attend. Mine to investigate & report.	215	263	209	214	239	220	289	1,040	2,028	2,345	2,505	2,552	2,512	14,631
Level 2 - Official to attend mine.	48	54	65	68	68	88	216	464	415	443	516	495	408	3,348
Level 3 - Detailed investigation suitable for further action	43	16	37	35	35	17	5	7	6	9	3	3	2	218
No Data	262	160	227	171	153	174	57	-	-	-	-	-	-	1,204
Total	568	493	538	488	495	499	567	1,511	2,449	2,797	3,024	3,050	2,922	19,401

Figure 15

All Incidents by Incident Investigation Level 1999-00 to 2011-12

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

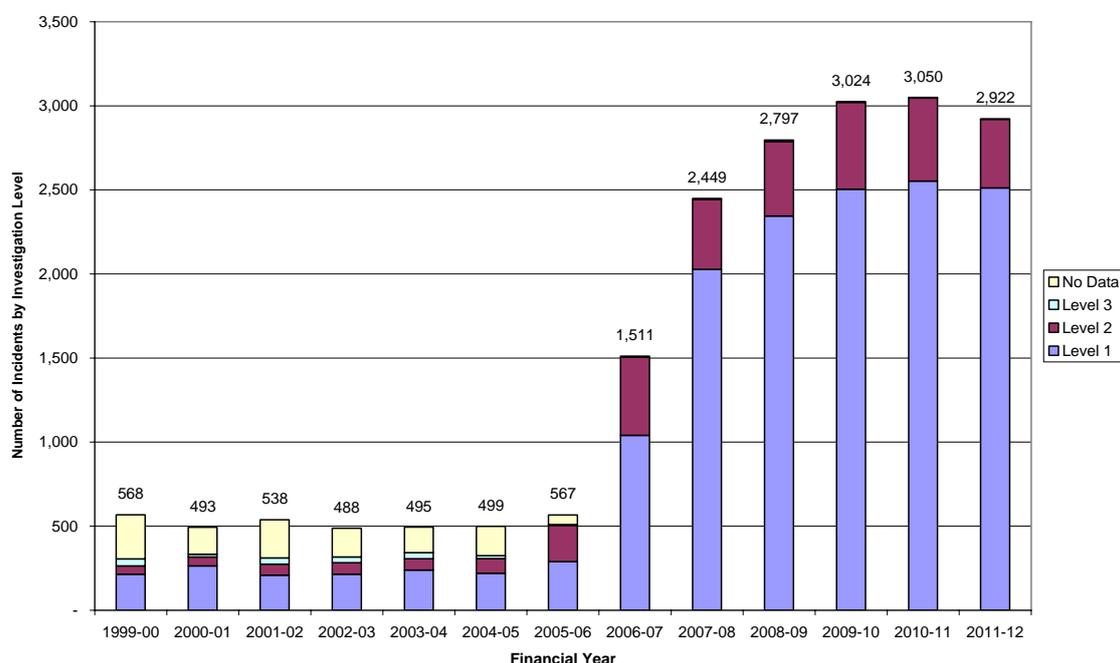
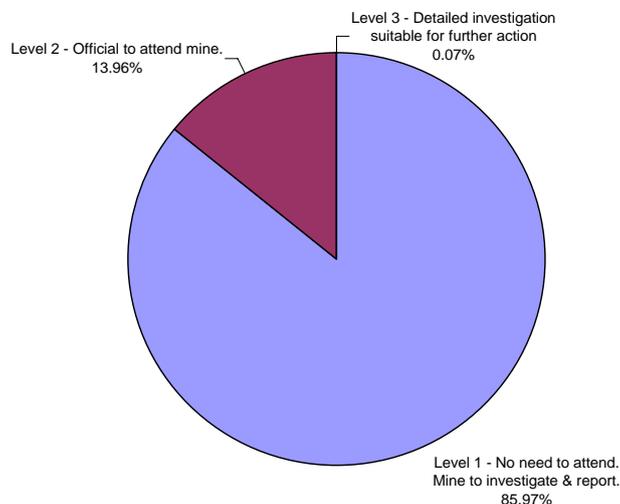


Figure 16

All Incidents by Incident Investigation Level 2011-12



4.1.4 All Incidents by Event Subtype

Figure 17

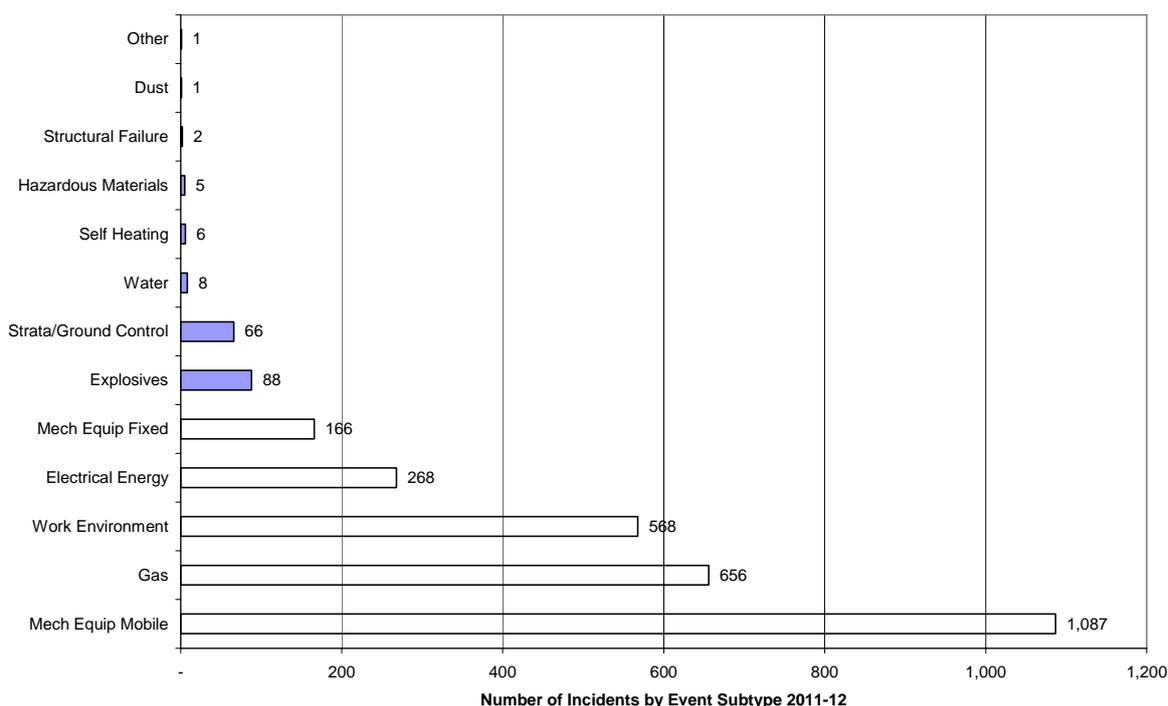
All Incidents by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Mech Equip Mobile	248	222	216	190	206	200	228	646	1,019	1,101	1,251	1,093	1,087	7,707
Gas	5	7	9	6	12	9	4	296	669	810	799	928	656	4,210
Work Environment	116	58	60	43	57	52	55	177	350	349	394	467	568	2,746
Electrical Energy	55	101	141	130	129	157	196	235	217	239	277	261	268	2,406
Mech Equip Fixed	47	34	33	43	31	25	26	46	64	159	160	136	166	970
Explosives	19	14	20	22	15	22	19	51	64	68	58	74	88	534
Strata/Ground Control	32	30	41	27	24	25	23	35	42	43	51	62	66	501
Structural Failure	10	5	4	5	8	5	7	10	11	9	11	6	2	93
Hazardous Materials	15	8	5	8	6	1	1	5	7	9	8	9	5	87
Water	10	6	1	7	2	2	4	4	3	1	5	9	8	62
Self Heating	7	4	3	3	3	-	4	5	3	7	7	3	6	55
Dust	3	2	2	2	1	1	-	-	-	2	3	1	1	18
Other	1	2	3	2	1	-	-	1	-	-	-	1	1	12
Total	568	493	538	488	495	499	567	1,511	2,449	2,797	3,024	3,050	2,922	19,401

Figure 18

All Incidents by Event Subtype 2011-12



4.2 Coal Incidents

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

In 2011-12:

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

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

4.2.1 Coal Incidents by Operation Type

Figure 19

Coal Incidents by Operation Type 1999-00 to 2011-12
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	2011-12	Total
Underground	143	197	220	181	190	207	244	1,110	1,931	2,181	2,338	2,265	2,024	13,231
Surface	126	100	93	71	89	59	95	173	318	387	404	502	591	3,008
Total	269	297	313	252	279	266	339	1,283	2,249	2,568	2,742	2,767	2,615	16,239

Figure 20

Coal Incidents 1999-00 to 2011-12
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

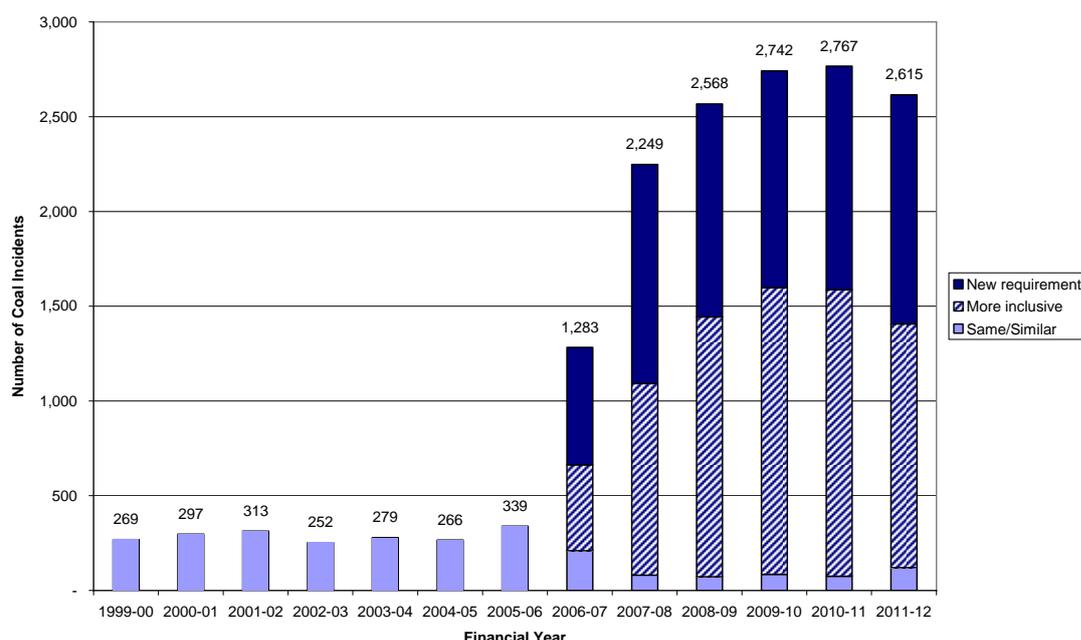


Figure 21
 Coal Surface Incidents 1999-00 to 2011-12
 NB Increase from mid 2006-07 due to requirements of CMHSR 2006

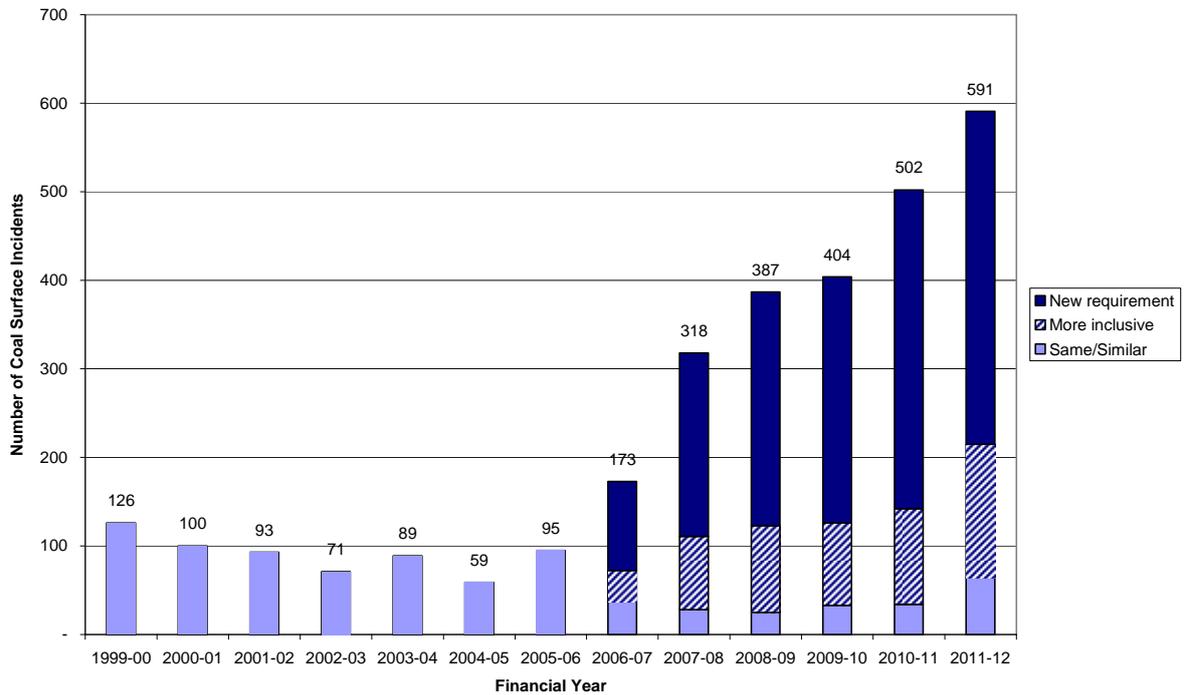
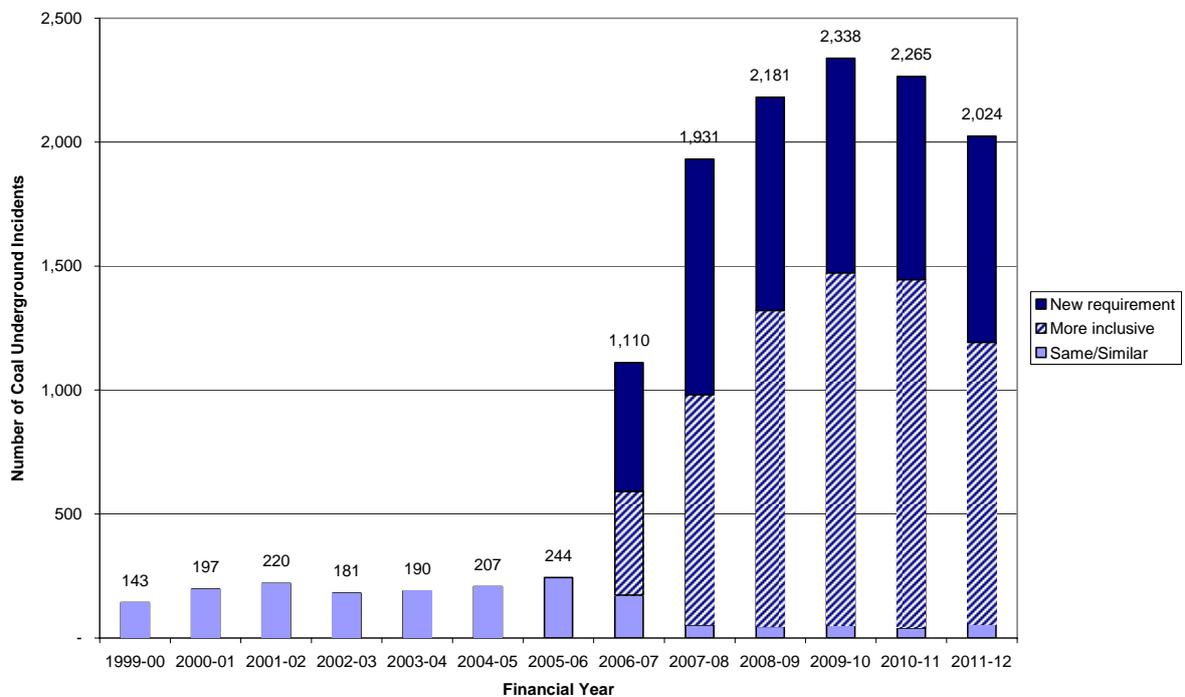


Figure 22
 Coal Underground Incidents 1999-00 to 2011-12
 NB Increase from mid 2006-07 due to requirements of CMHSR 2006



4.2.2 Coal Incidents by Incident Investigation Level

Figure 23

Coal Incidents by Incident Investigation Level 1999-00 to 2011-12
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	2011-12	Total
Level 1 - No need to attend. Mine to investigate & report.	119	192	148	138	159	146	154	919	1,925	2,224	2,342	2,387	2,336	13,189
Level 2 - Official to attend mine.	25	33	33	35	30	51	148	361	321	337	399	377	278	2,428
Level 3 - Detailed investigation suitable for further action	18	11	22	17	21	14	1	3	3	7	1	3	1	122
No Data	107	61	110	62	69	55	36	-	-	-	-	-	-	500
Total	269	297	313	252	279	266	339	1,283	2,249	2,568	2,742	2,767	2,615	16,239

Figure 24

Coal Incidents by Incident Investigation Level 1999-00 to 2011-12
NB Increase from mid 2006-07 due to requirements of CMHSR 2006

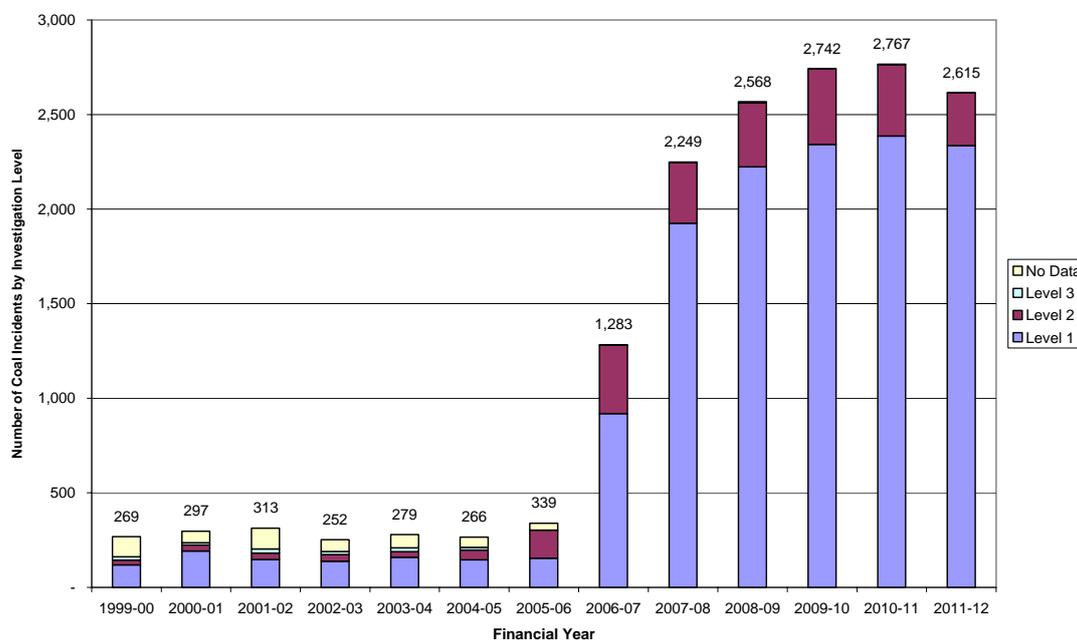
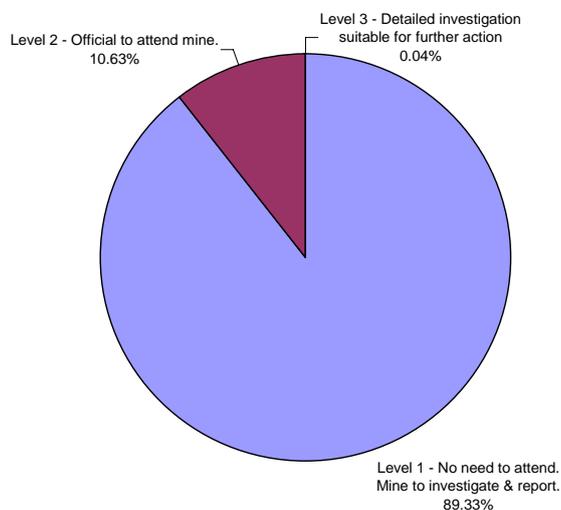


Figure 25

Coal Incidents by Incident Investigation Level 2011-12



4.2.3 Coal Incidents by Event Subtype

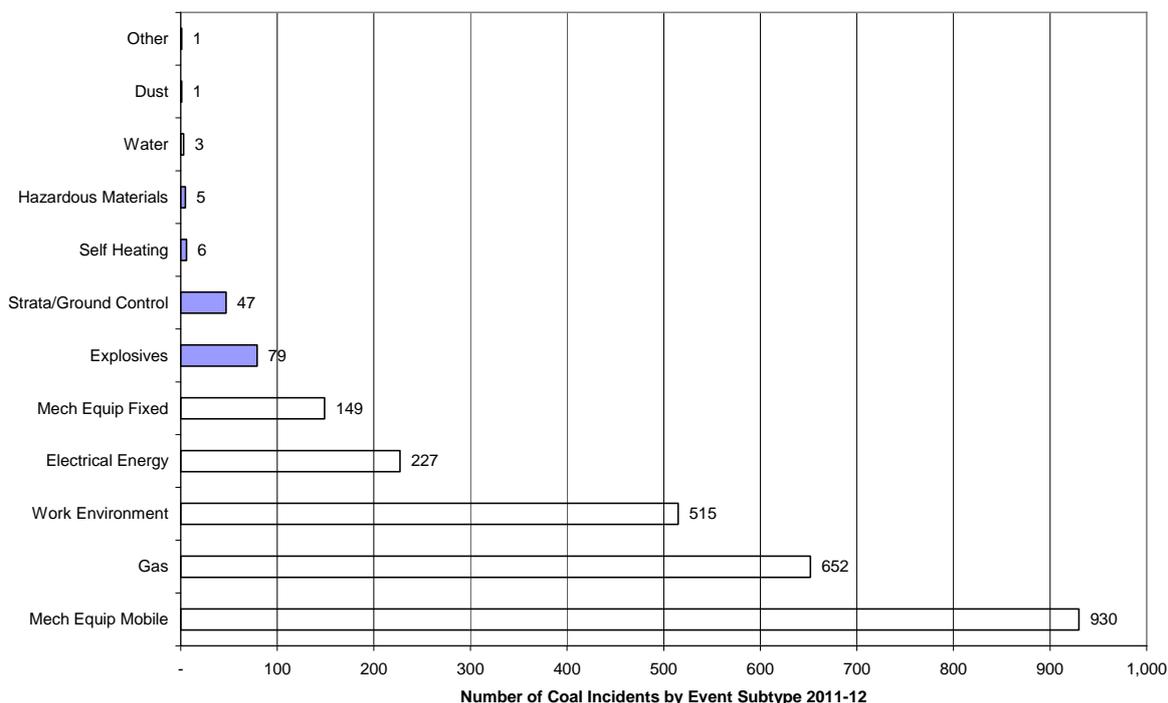
Figure 26

Coal Incidents by Event Subtype 1999-00 to 2011-12
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	2011-12	Total
Mech Equip Mobile	141	145	121	94	114	96	116	538	938	983	1,122	965	930	6,303
Gas	2	2	6	5	11	7	4	294	665	810	799	927	652	4,184
Work Environment	24	16	24	17	22	18	21	136	308	312	333	405	515	2,151
Electrical Energy	36	70	111	84	91	116	166	200	187	212	241	231	227	1,972
Mech Equip Fixed	27	29	18	25	18	13	16	39	48	146	146	123	149	797
Explosives	-	1	-	2	2	4	-	30	55	55	49	64	79	341
Strata/Ground Control	19	21	26	12	14	9	10	28	30	33	31	37	47	317
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	6	48
Hazardous Materials	5	1	1	5	-	-	-	4	6	3	5	6	5	41
Water	1	2	-	1	-	-	1	2	1	1	1	4	3	17
Dust	-	2	1	1	1	-	-	-	-	1	1	-	1	8
Other	-	1	2	1	-	-	-	-	-	-	-	-	1	5
Total	269	297	313	252	279	266	339	1,283	2,249	2,568	2,742	2,767	2,615	16,239

Figure 27

Coal Incidents by Event Subtype 2011-12
NB Increase from mid 2006-07 due to requirements of CMHSR 2006



4.2.4 Coal Incidents by Incident Type

Figure 28

Coal Incidents by Incident Type 1999-00 to 2011-12.

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	2011-12	Total
*CMRA	*1984 Dangerous Occurrence O/C	38	7	-	-	-	-	-	-	-	-	-	-	-	45
	Serious Bodily Injury CMRA	-	2	7	20	14	-	-	-	-	-	-	-	-	43
	*1984 Dangerous Occurrence U/G	22	8	-	-	-	-	-	-	-	-	-	-	-	30
	*Fatality	-	-	-	-	1	-	-	-	-	-	-	-	-	1
	Total	60	17	7	20	15	-	-	-	-	-	-	-	-	119
*CMGNR	Non Spec Acc Ending in Fat/Injury	40	38	30	19	32	29	29	33	-	-	-	-	-	250
	Notifiable Incidents DCCP CMGNR 1999, CI 83	18	20	20	9	8	8	15	5	-	-	-	-	-	103
	Total	58	58	50	28	40	37	44	38	-	-	-	-	-	353
*CMOCR	Notifiable Incidents CMOCR 1999, CI 16	49	73	54	40	64	39	67	12	-	-	-	-	-	398
	Total	49	73	54	40	64	39	67	12	-	-	-	-	-	398
*CMUGR	Other Notifiable Incidents CMUGR 1999 CI 34B	-	-	2	12	47	97	116	59	-	-	-	-	-	333
	Dangerous Occurrences CMUGR 1999, CI 34(1)	24	64	70	61	39	30	22	12	-	-	-	-	-	322
	Incidents CMUGR 1999, CI 34 (2) Repealed 4/7/2003	35	66	68	54	12	-	-	-	-	-	-	-	-	235
	Notifiable Incidents CMUGR 1999 CI 34A	-	1	7	1	38	38	76	43	-	-	-	-	-	204
	Total	59	131	147	128	136	165	214	114	-	-	-	-	-	1,094
CMHS	CMHSR 2006 CI 56(1)	-	-	-	-	-	-	-	789	1,547	1,877	2,015	2,037	1,823	10,088
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	215	484	437	434	433	471	2,474
	CMHSR 2006 CI 55	-	-	-	-	-	-	-	102	204	247	280	284	304	1,421
	CMHSR 2006 CI 57	-	-	-	-	-	-	-	-	-	1	5	4	6	16
	Total	-	1,106	2,235	2,562	2,734	2,758	2,604	13,999						
Explosives	Explosives Regulation 2005	-	-	-	-	-	-	-	1	-	-	-	-	1	2
	Total	-	1	-	-	-	-	1	2						
N/A	High Potential Incident	24	14	14	18	23	24	12	12	12	5	8	8	9	183
	Unknown	13	2	38	17	-	-	-	-	-	-	-	-	-	70
	Complaint	6	1	1	-	1	1	2	-	2	1	-	1	-	16
	Other	-	1	2	1	-	-	-	-	-	-	-	-	-	5
	Total	43	18	55	36	24	25	14	12	14	6	8	9	10	274
Total	269	297	313	252	279	266	339	1,283	2,249	2,568	2,742	2,767	2,615	16,239	

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

4.3 Non-Coal Incidents

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

In 2011-12:

- The number of metalliferous and extractives incidents was 41% higher than the average notified for the last five years (2003-04 to 2007-08) under the former legislation. This increase reflects the new and more inclusive reporting requirements of the current legislation.

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

4.3.1 Non-Coal Incidents by Operation Type

Figure 29

Non-Coal Incidents by Operation Type 1999-00 to 2011-12

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	2011-12	Total
Surface	Metalliferous	38	18	30	26	34	39	39	35	36	42	61	44	45	487
	Extractives	102	71	74	97	71	78	62	70	62	73	77	104	101	1,042
	Non-Coal Other	9	2	1	3	2	1	3	1	2	1	1	1	1	28
	Total	149	91	105	126	107	118	104	106	100	116	139	149	147	1,557
Underground	Metalliferous	139	101	111	106	102	108	116	114	94	104	124	120	154	1,493
	Extractives	-	-	-	-	1	5	6	1	2	1	2	2	3	23
	Non-Coal Other	-	-	-	-	2	-	-	-	-	1	3	1	-	7
	Total	139	101	111	106	105	113	122	115	96	106	129	123	157	1,523
Total	288	192	216	232	212	231	226	221	196	222	268	272	304	3,080	

Figure 30

Non-Coal Incidents 1999-00 to 2011-12

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

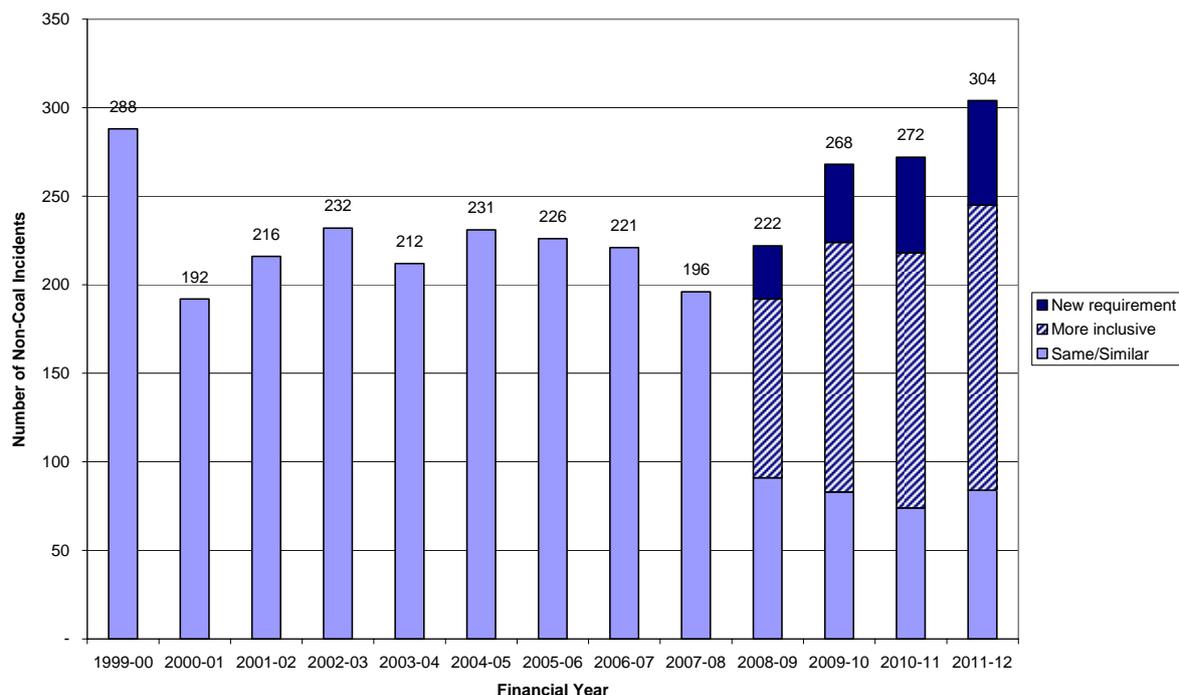


Figure 31
 Non-Coal Surface Incidents 1999-00 to 2011-12
 NB Increase from Q2 2008-09 due to requirements of MHSR 2007

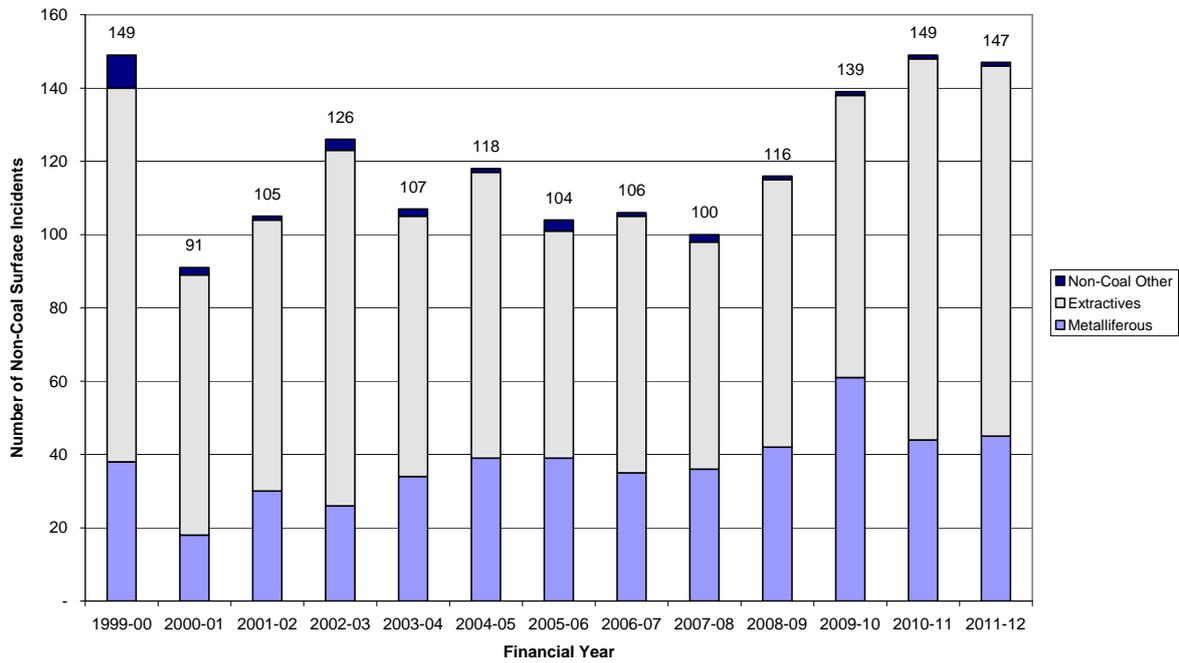
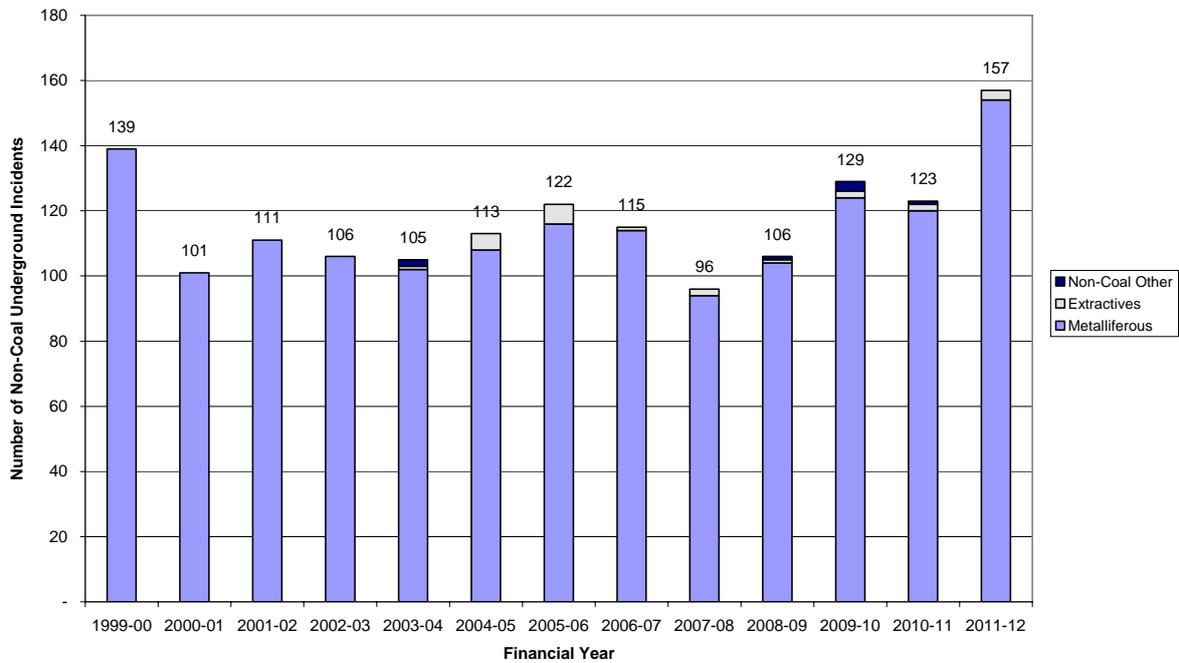


Figure 32
 Non-Coal Underground Incidents 1999-00 to 2011-12
 NB Increase from Q2 2008-09 due to requirements of MHSR 2007



4.3.2 Non-Coal Metalliferous Incidents by Incident Investigation Level

Figure 33

Non-Coal Metalliferous Incidents by Incident Investigation Level 1999-00 to 2011-12
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	2011-12	Total
Level 1 - No need to attend. Mine to investigate & report.	56	31	30	37	49	44	99	81	69	88	115	104	120	923
Level 2 - Official to attend mine.	15	11	21	17	21	17	45	65	59	56	69	60	78	534
Level 3 - Detailed investigation suitable for further action	16	4	11	11	8	2	1	3	2	2	1	-	1	62
No Data	90	73	79	67	58	84	10	-	-	-	-	-	-	461
Total	177	119	141	132	136	147	155	149	130	146	185	164	199	1,980

Figure 34

Non-Coal Metalliferous Incidents by Incident Investigation Level 1999-00 to 2011-12
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

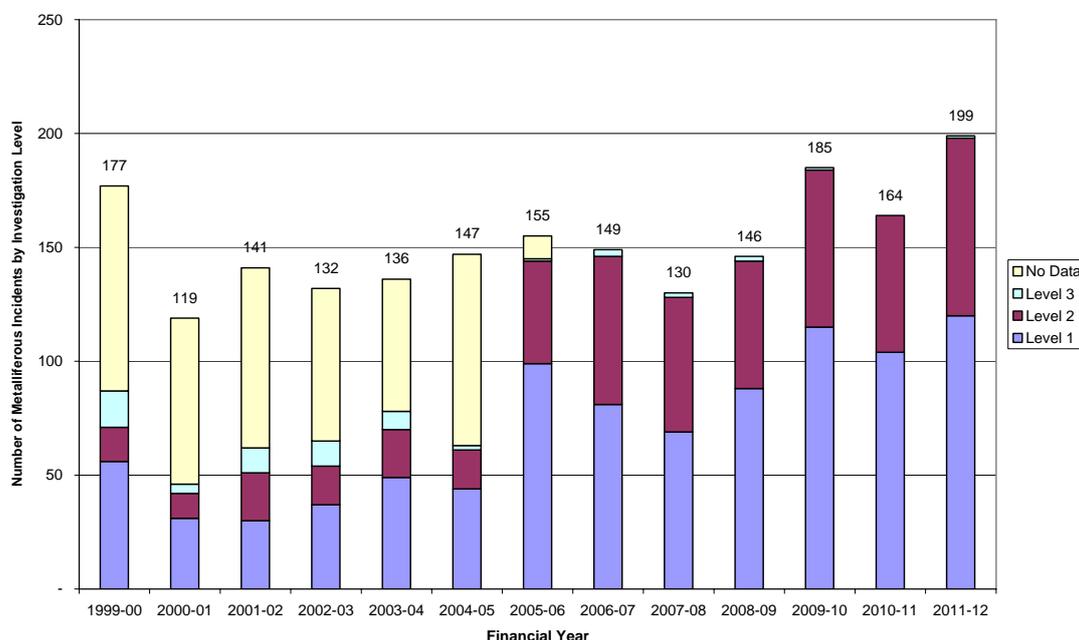
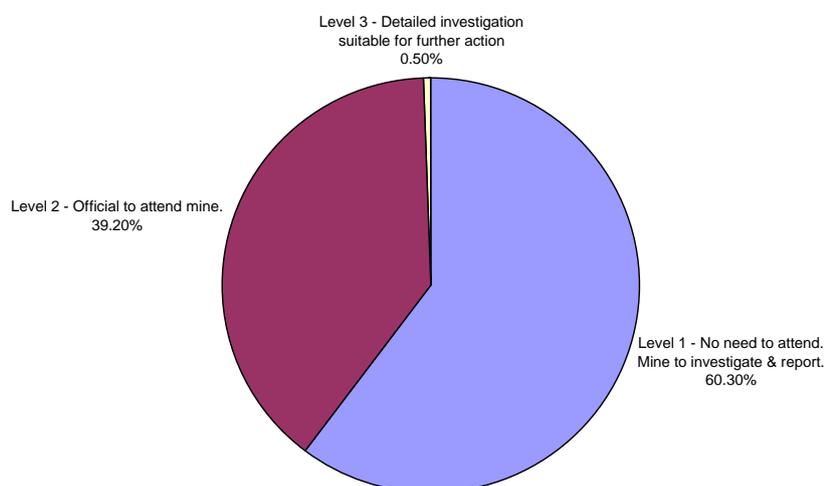


Figure 35

Non-Coal Metalliferous Incidents by Incident Investigation Level 2011-12



4.3.3 Non-Coal Metalliferous Incidents by Event Subtype

Figure 36

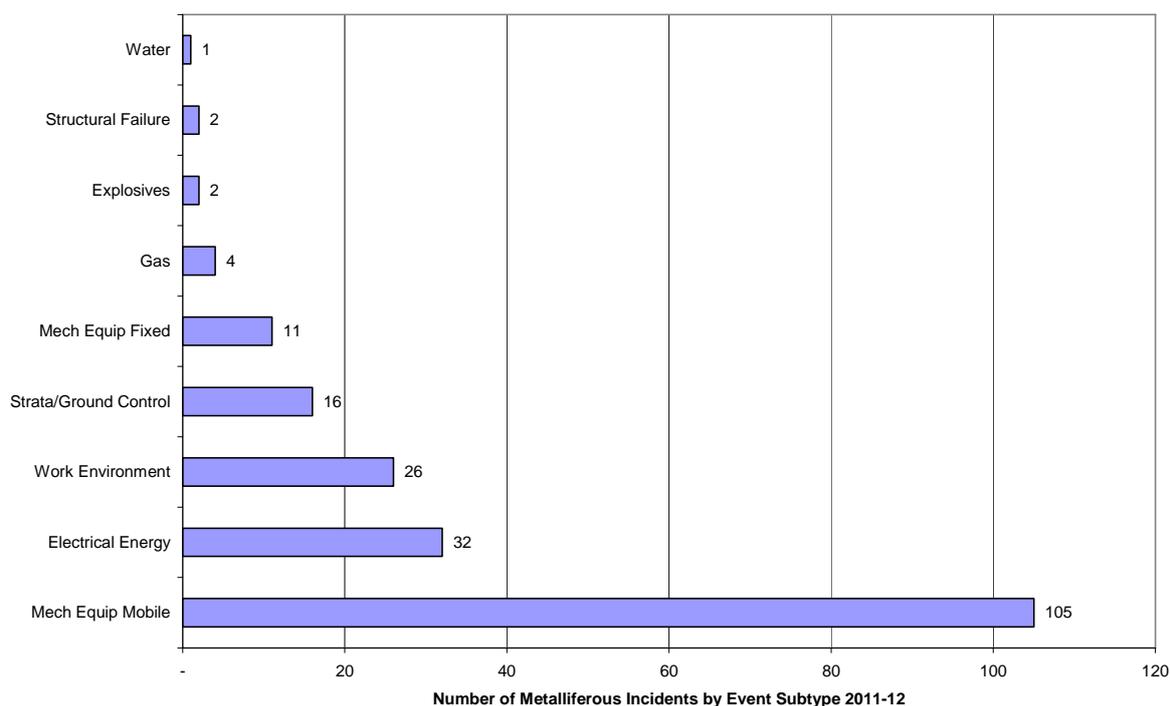
Non-Coal Metalliferous Incidents by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Mech Equip Mobile	59	50	64	56	58	67	87	75	51	80	86	81	105	919
Electrical Energy	17	27	27	28	26	31	23	27	22	17	23	21	32	321
Work Environment	54	18	15	10	23	18	17	24	24	20	34	23	26	306
Strata/Ground Control	13	7	12	14	9	13	10	7	10	7	16	22	16	156
Mech Equip Fixed	11	2	7	9	6	10	8	3	11	8	10	5	11	101
Explosives	5	4	6	2	4	2	2	5	4	5	6	4	2	51
Hazardous Materials	4	5	4	3	5	-	1	1	-	5	3	3	-	34
Water	8	3	-	5	2	2	3	2	2	-	3	2	1	33
Structural Failure	1	1	3	3	1	2	4	2	2	2	1	3	2	27
Gas	2	2	1	1	1	2	-	2	4	-	-	-	4	19
Dust	3	-	1	1	-	-	-	-	-	-	1	-	-	6
Self Heating	-	-	-	-	1	-	-	1	-	2	2	-	-	6
Other	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Total	177	119	141	132	136	147	155	149	130	146	185	164	199	1,980

Figure 37

Non-Coal Metalliferous Incidents by Event Subtype 2011-12



4.3.4 Non-Coal Metalliferous Incidents by Incident Type

Figure 38

Non-Coal Metalliferous Incidents by Incident Type 1999-00 to 2011-12

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	2011-12	Total
*MIA	Dangerous Incident	-	4	37	65	73	70	88	63	39	4	-	-	-	443
	*Pre Sept 2000 Dangerous Incident MIA	21	62	52	1	-	-	-	-	-	-	-	-	-	136
	Non Spec Acc Ending in Fat/Injury	69	9	5	1	4	4	11	18	9	4	-	-	-	134
	*1994 Emergency MIA	53	6	3	-	-	-	-	-	-	-	-	-	-	62
	*Serious Injury MIA	-	-	3	3	8	-	-	-	-	-	-	-	-	14
	*Minor Accident MIA	-	-	1	4	-	-	-	-	-	-	-	-	-	5
	*Fatality	-	-	-	1	-	-	-	-	-	-	-	-	-	1
	Total	143	81	101	75	85	74	99	81	48	8	-	-	-	795
Explosives	Explosives Regulation 2005	-	-	-	-	-	-	-	2	-	-	-	1	2	5
	Total	-	2	-	-	-	1	2	5						
MHS	MHSR 2007 Cl 145	-	-	-	-	-	-	-	-	-	91	137	121	164	513
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	-	-	10	20	23	23	76
	MHSR 2007 Cl 146(1)	-	-	-	-	-	-	-	-	-	-	1	-	-	1
	Total	-	101	158	144	187	590								
N/A	High Potential Incident	21	33	30	50	38	62	45	60	71	28	13	12	5	468
	Complaint	3	4	9	3	13	11	11	6	11	9	14	7	4	105
	UNKNOWN	10	1	-	2	-	-	-	-	-	-	-	-	-	13
	Other	-	-	1	2	-	-	-	-	-	-	-	-	1	4
	Total	34	38	40	57	51	73	56	66	82	37	27	19	10	590
Total	177	119	141	132	136	147	155	149	130	146	185	164	199	1,980	

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

4.3.5 Non-Coal Extractives Incidents by Incident Investigation Level

Figure 39

Non-Coal Extractives Incidents by Incident Investigation Level 1999-00 to 2011-12
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	2011-12	Total
Level 1 - No need to attend. Mine to investigate & report.	38	38	29	39	29	30	35	33	32	29	41	59	54	486
Level 2 - Official to attend mine.	6	9	11	16	15	20	21	37	31	45	38	47	50	346
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
Total	102	71	74	97	72	83	68	71	64	74	79	106	104	1,065

Figure 40

Non-Coal Extractives Incidents by Incident Investigation Level 1999-00 to 2011-12
NB Increase from Q2 2008-09 due to requirements of MHSR 2007

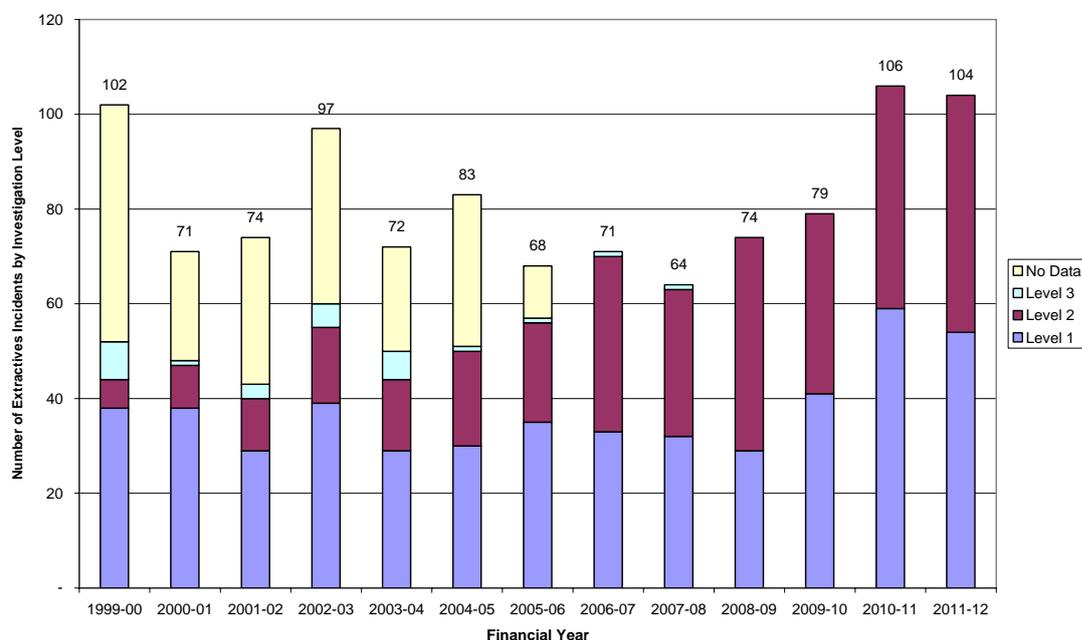
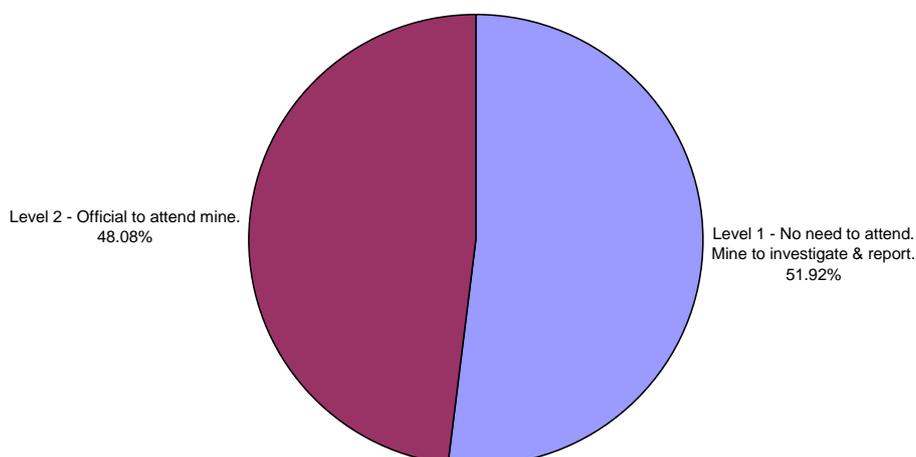


Figure 41

Non-Coal Extractives Incidents by Incident Investigation Level 2011-12



4.3.6 Non-Coal Extractives Incidents by Event Subtype

Figure 42

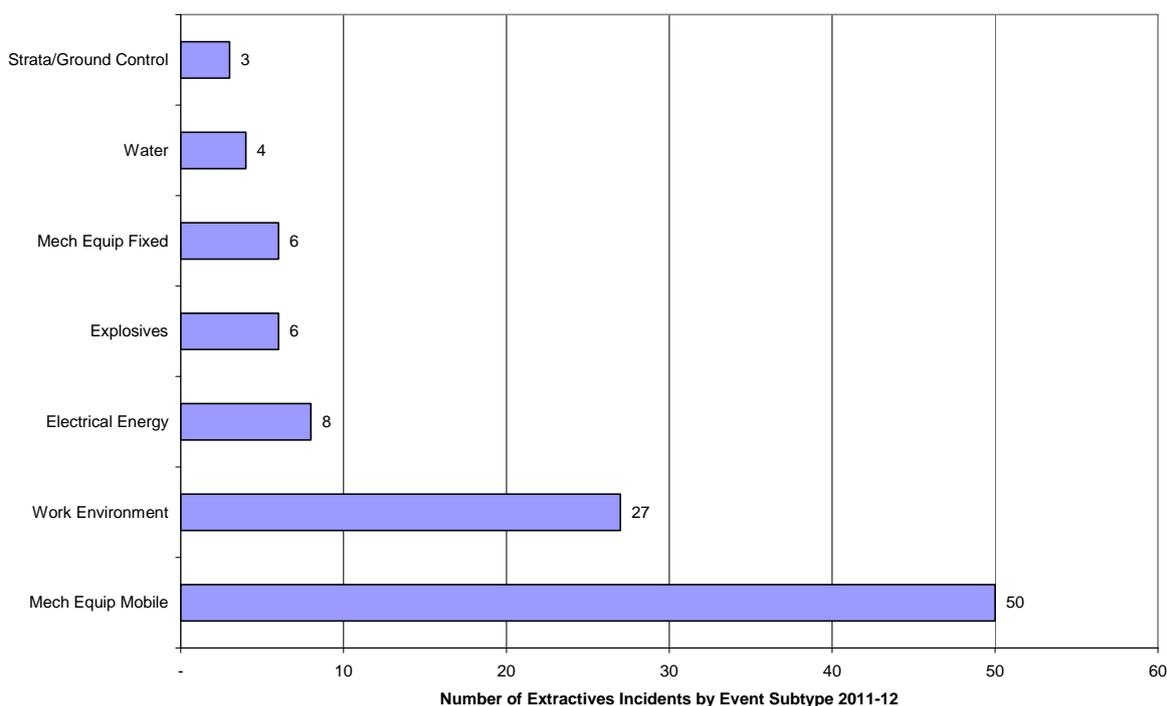
Non-Coal Extractives Incidents by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Mech Equip Mobile	43	26	27	38	29	37	25	28	29	33	33	40	50	438
Work Environment	32	23	19	16	11	14	14	14	14	15	25	38	27	262
Explosives	11	9	13	18	9	16	17	16	5	7	2	6	6	135
Electrical Energy	2	4	2	15	12	10	7	8	8	10	13	8	8	107
Mech Equip Fixed	7	3	8	8	7	2	2	4	4	5	2	6	6	64
Strata/Ground Control	-	2	2	1	1	2	2	-	2	2	2	2	3	21
Hazardous Materials	6	1	-	-	1	1	-	-	1	1	-	-	-	11
Water	-	1	1	-	-	-	-	-	-	-	1	3	4	10
Structural Failure	1	1	1	-	1	-	1	-	-	-	-	1	-	6
Other	-	1	-	1	1	-	-	1	-	-	-	1	-	5
Dust	-	-	-	-	-	1	-	-	-	1	1	-	-	3
Gas	-	-	1	-	-	-	-	-	-	-	-	1	-	2
Self Heating	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Total	102	71	74	97	72	83	68	71	64	74	79	106	104	1,065

Figure 43

Non-Coal Extractives Incidents by Event Subtype 2011-12



4.3.7 Non-Coal Extractives Incidents by Incident Type

Figure 44

Non-Coal Extractives Incidents by Incident Type 1999-00 to 2011-12

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	2011-12	Total
*MIA	Dangerous Incident	-	4	8	28	23	24	22	18	18	2	-	-	-	147
	Non Spec Acc Ending in Fat/Injury	40	13	6	1	4	1	3	10	4	-	-	-	-	82
	*1994 Emergency MIA	33	2	-	-	-	-	-	-	-	-	-	-	-	35
	*Pre Sept 2000 Dangerous Incident MIA	9	8	9	-	-	-	-	-	-	-	-	-	-	26
	*Serious Injury MIA	-	-	4	4	3	-	-	-	-	-	-	-	-	11
	*Minor Accident MIA	-	-	-	4	-	-	-	-	-	-	-	-	-	4
	Total	82	27	27	37	30	25	25	28	22	2	-	-	-	305
Explosives	Explosives Regulation 2005	-	-	-	-	-	-	1	1	-	-	-	-	-	2
	Total	-	-	-	-	-	-	1	1	-	-	-	-	-	2
MHS	MHSR 2007 CI 145	-	-	-	-	-	-	-	-	-	37	41	57	57	192
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	-	-	7	10	21	18	56
	MHSR 2007 CI 146(1)	-	-	-	-	-	-	-	-	-	2	2	2	4	10
	Total	-	46	53	80	79	258								
N/A	High Potential Incident	12	33	26	40	30	40	29	27	33	15	8	11	9	313
	Complaint	3	10	21	16	11	18	13	14	9	11	18	14	16	174
	Unknown	5	-	-	3	-	-	-	-	-	-	-	-	-	8
	Other	-	1	-	1	1	-	-	1	-	-	-	-	1	5
	Total	20	44	47	60	42	58	42	42	42	26	26	26	25	500
Total	102	71	74	97	72	83	68	71	64	74	79	106	104	1,065	

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

4.3.8 Non-Coal Other Incidents by Incident Investigation Level

Figure 45

Non-Coal Other Incidents by Incident Investigation Level 1999-00 to 2011-12
 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	2011-12	Total
Level 1 - No need to attend. Mine to investigate & report.	-	-	-	-	1	-	-	1	-	2	2	1	1	8
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
Total	9	2	1	3	4	1	3	1	2	2	4	2	1	35

Figure 46

Non-Coal Other Incidents by Incident Investigation Level 1999-00 to 2011-12
 NB MHSR 2007 commenced Q2 2008-09

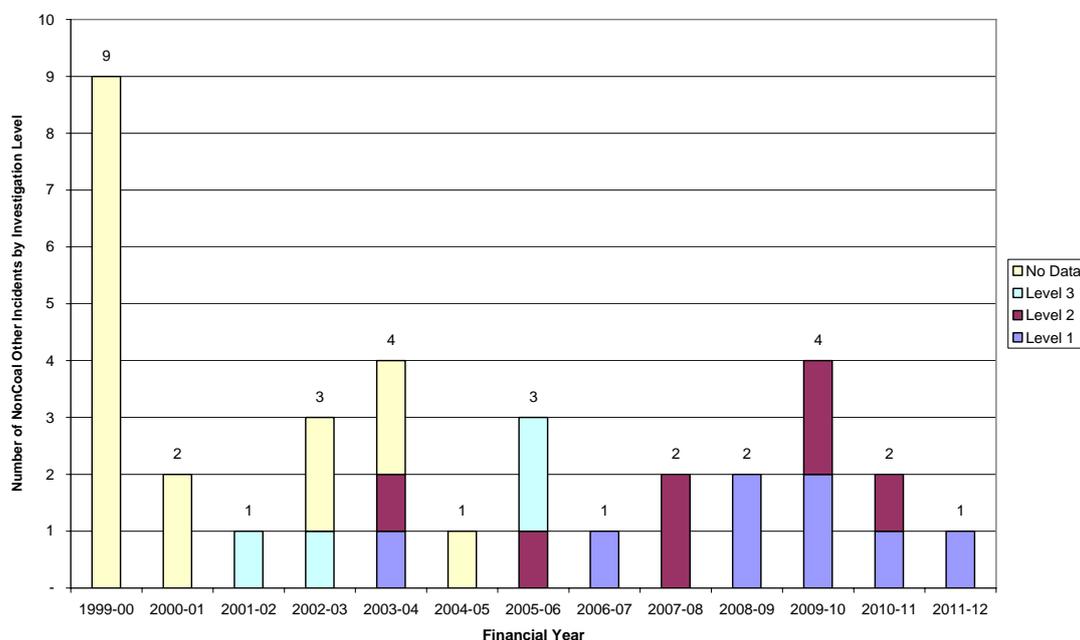
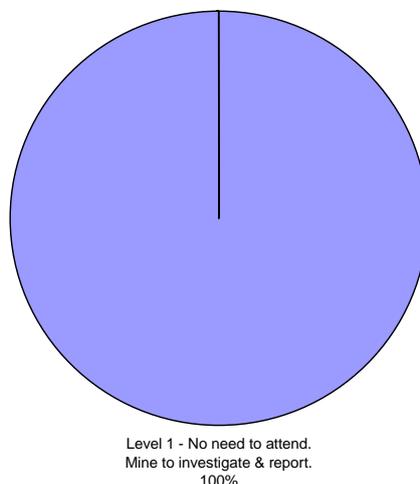


Figure 47

Non-Coal Other Incidents by Incident Investigation Level 2011-12



4.3.9 Non-Coal Other Incidents by Event Subtype

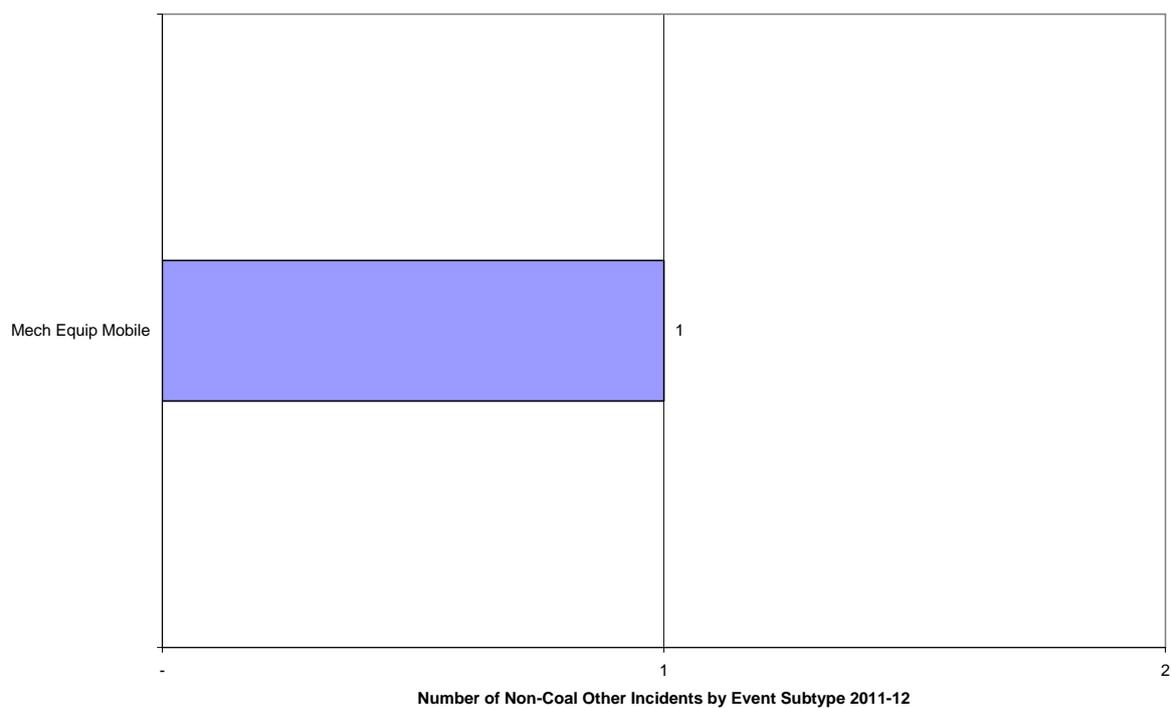
Figure 48

Non-Coal Other Incidents by Event Subtype 1999-00 to 2011-12
 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	2011-12	Total
Work Environment	3	1	-	-	1	-	2	-	1	1	1	-	-	10
Mech Equip Mobile	1	1	1	1	2	-	-	1	-	-	-	1	1	9
Strata/Ground Control	-	-	-	-	-	1	-	-	-	1	2	-	-	4
Structural Failure	1	-	-	-	1	-	1	-	-	-	1	-	-	4
Explosives	3	-	-	-	-	-	-	-	-	-	-	-	-	3
Mech Equip Fixed	-	-	-	1	-	-	-	-	1	-	-	1	-	3
Other	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Water	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total	9	2	1	3	4	1	3	1	2	2	4	2	1	35

Figure 49

Non-Coal Other Incidents by Event Subtype 2011-12



4.3.10 Non-Coal Other Incidents by Incident Type

Figure 50

Non-Coal Other Incidents by Incident Type 1999-00 to 2011-12

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	2011-12	Total
*MIA	Dangerous Incident	-	-	1	1	1	1	1	1	1	-	-	-	-	7
	Non Spec Acc Ending in Fat/Injury	3	1	-	-	2	-	-	-	-	-	-	-	-	6
	*1994 Emergency MIA	2	-	-	-	-	-	-	-	-	-	-	-	-	2
	*Minor Accident MIA	-	-	-	1	-	-	-	-	-	-	-	-	-	1
	*Pre Sept 2000 Dangerous Incident MIA	1	-	-	-	-	-	-	-	-	-	-	-	-	1
	Total	6	1	1	2	3	1	1	1	1	1	-	-	-	17
MHS	MHSR 2007 Cl 145	-	-	-	-	-	-	-	-	-	1	2	1	-	4
	Non Spec Acc Ending in Fat/Injury	-	-	-	-	-	-	-	-	-	1	-	-	-	1
	Total	-	2	2	1	-	5								
N/A	High Potential Incident	-	-	-	1	-	-	2	-	1	-	1	-	1	6
	Complaint	1	1	-	-	1	-	-	-	-	-	-	1	-	4
	Unknown	1	-	-	-	-	-	-	-	-	-	-	-	-	1
	Other	1	-	-	-	-	-	-	-	-	-	1	-	-	2
	Total	3	1	-	1	1	-	2	-	1	-	2	1	1	13
Total	9	2	1	3	4	1	3	1	2	2	4	2	1	35	

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

4.4 Petroleum (Onshore) Incidents

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

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

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

4.4.1 Petroleum (Onshore) Incidents by Incident Investigation Level

Figure 51

Petroleum (Onshore) Incidents by Incident Investigation Level 1999-00 to 2011-12

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	2011-12	Total
Level 1 - No need to attend. Mine to investigate & report.	-	1	-	-	-	-	-	3	-	-	5	1	-	10
Level 2 - Official to attend mine.	1	-	-	-	-	-	-	-	-	3	6	5	1	16
Level 3 - Detailed investigation suitable for further action	-	-	-	-	-	-	-	-	-	-	1	-	-	1
No Data	-	-	2	-	1	-	-	-	-	-	-	-	-	3
Total	1	1	2	-	1	-	-	3	-	3	12	6	1	30

Figure 52
 Petroleum (Onshore) Incidents by Incident Investigation Level 1999-00 to 2011-12

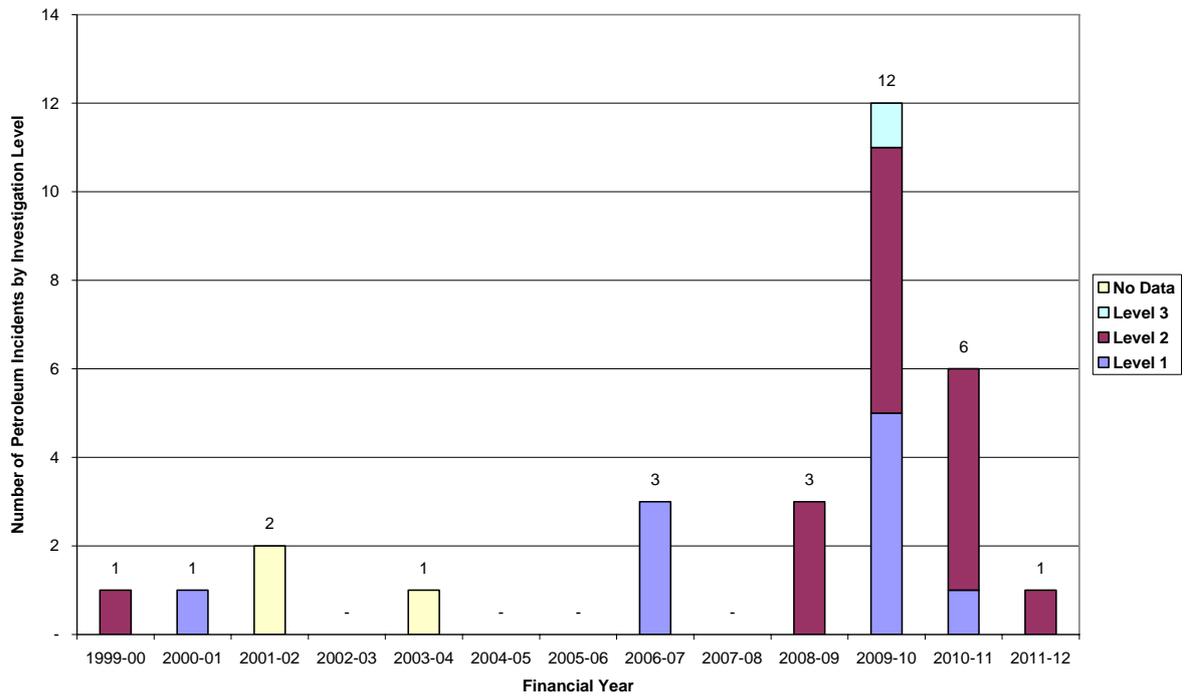
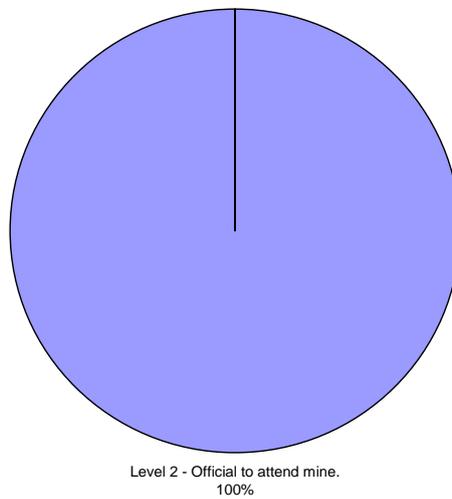


Figure 53
 Petroleum (Onshore) Incidents by Incident Investigation Level 2011-12

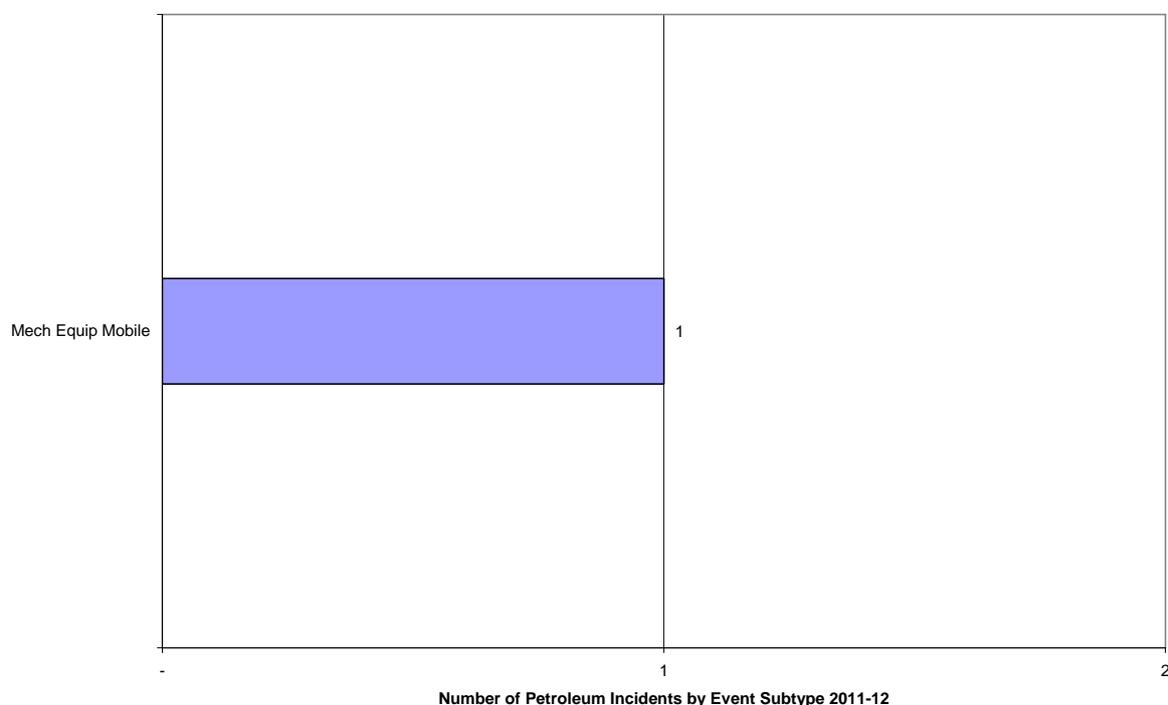


4.4.2 Petroleum (Onshore) Incidents by Event Subtype

Figure 54
Petroleum Incidents by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Mech Equip Mobile	1	-	-	-	1	-	-	2	-	3	10	4	1	22
Mech Equip Fixed	-	-	-	-	-	-	-	-	-	-	2	1	-	3
Work Environment	-	-	2	-	-	-	-	1	-	-	-	-	-	3
Electrical Energy	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Gas	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Total	1	1	2	-	1	-	-	3	-	3	12	6	1	30

Figure 55
Petroleum Incidents by Event Subtype 2011-12



4.4.3 Petroleum (Onshore) Incidents by Incident Type

Figure 56
Petroleum (Onshore) Incidents by Incident Type 1999-00 to 2011-12

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	2011-12	Total
POSch	POSch 1992	1	1	2	-	1	-	-	3	-	3	12	6	1	30
Total		1	1	2	-	1	-	-	3	-	3	12	6	1	30

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

4.5 High Potential Incidents

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

4.5.1 High Potential Incidents by Sector

Figure 57

High Potential Incidents by Sector 1999-2000 to 2011-12

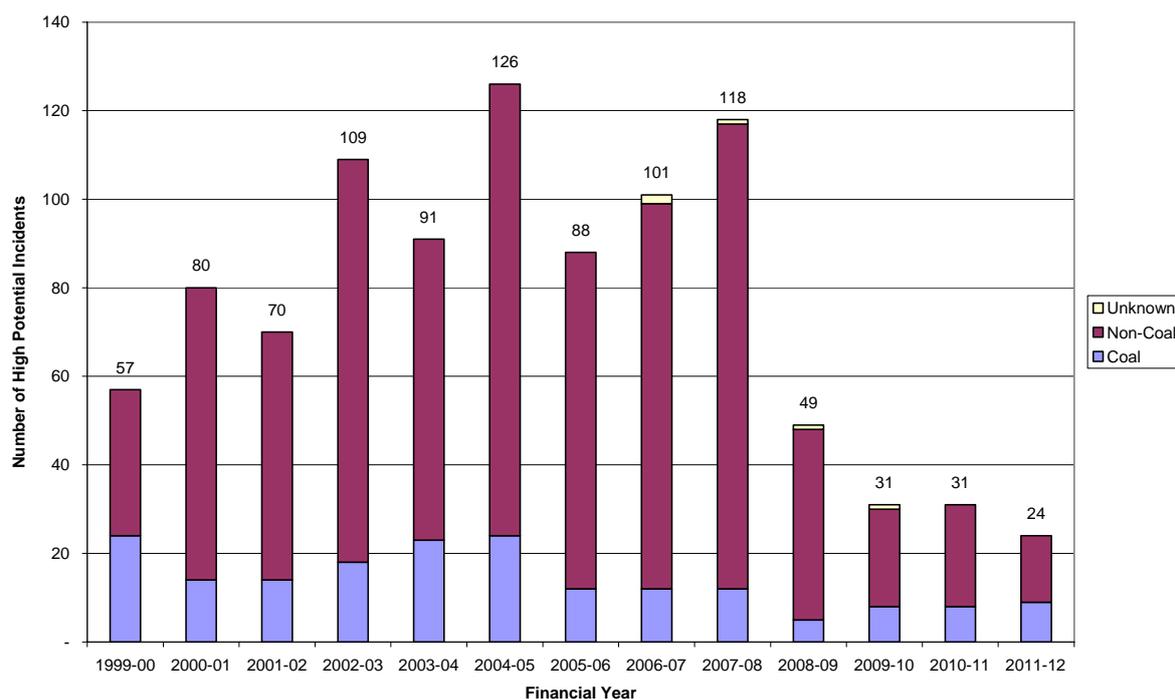
NB "Unknown" refers to incidents reported by non-mine organisations

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	2011-12	Total
Non-Coal	33	66	56	91	68	102	76	87	105	43	22	23	15	787
Coal	24	14	14	18	23	24	12	12	12	5	8	8	9	183
Unknown	-	-	-	-	-	-	-	2	1	1	1	-	-	5
Total	57	80	70	109	91	126	88	101	118	49	31	31	24	975

Figure 58

High Potential Incidents by Sector 1999-2000 to 2011-12

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



4.5.2 High Potential Incidents by Incident Investigation Level

Figure 59

High Potential Incidents by Incident Investigation Level 1999-00 to 2011-12

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	2011-12	Total
Level 1 - No need to attend. Mine to investigate & report.	16	49	45	48	45	45	58	62	68	32	18	20	14	520
Level 2 - Official to attend mine.	6	7	9	10	9	20	19	39	50	17	13	11	10	220
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
Total	57	80	70	109	91	126	88	101	118	49	31	31	24	975

Figure 60

High Potential Incidents by Incident Investigation Level 1999-00 to 2011-12

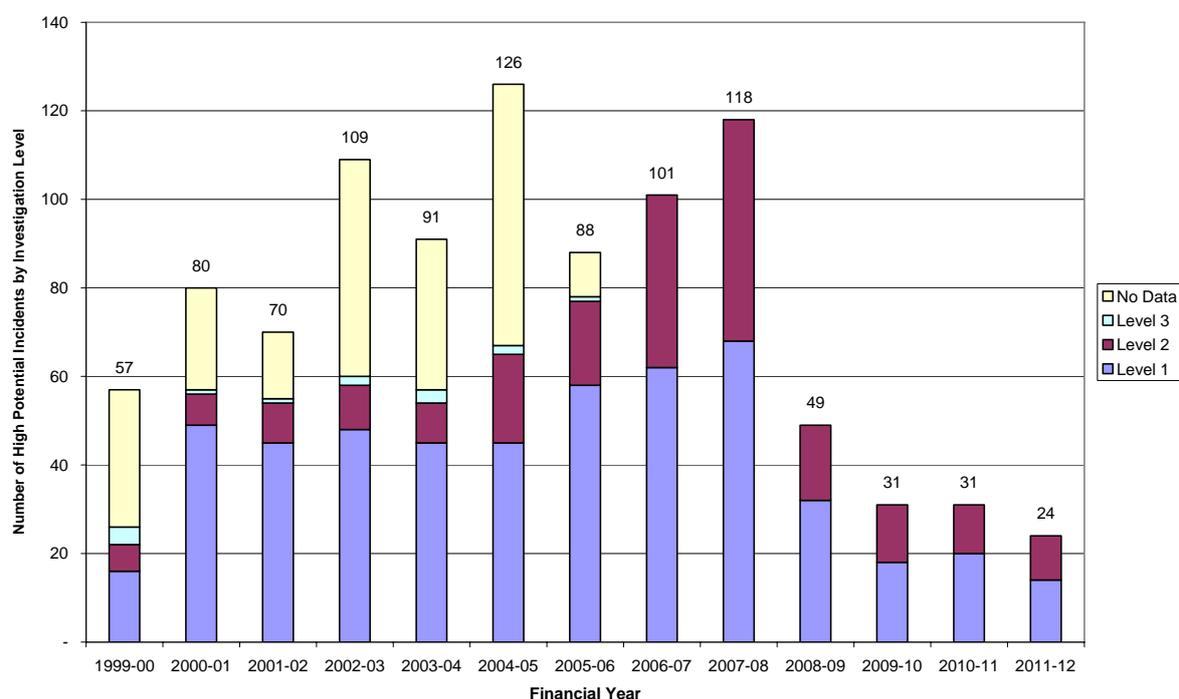
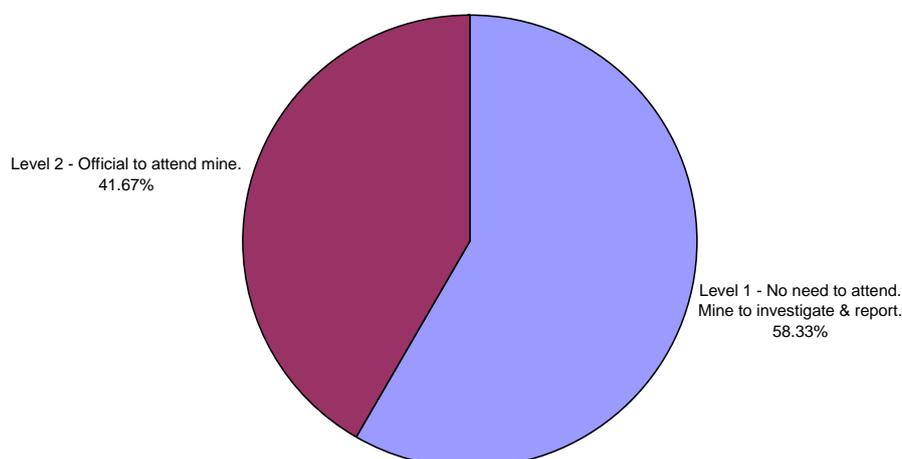


Figure 61

High Potential Incidents by Incident Investigation Level 2011-12

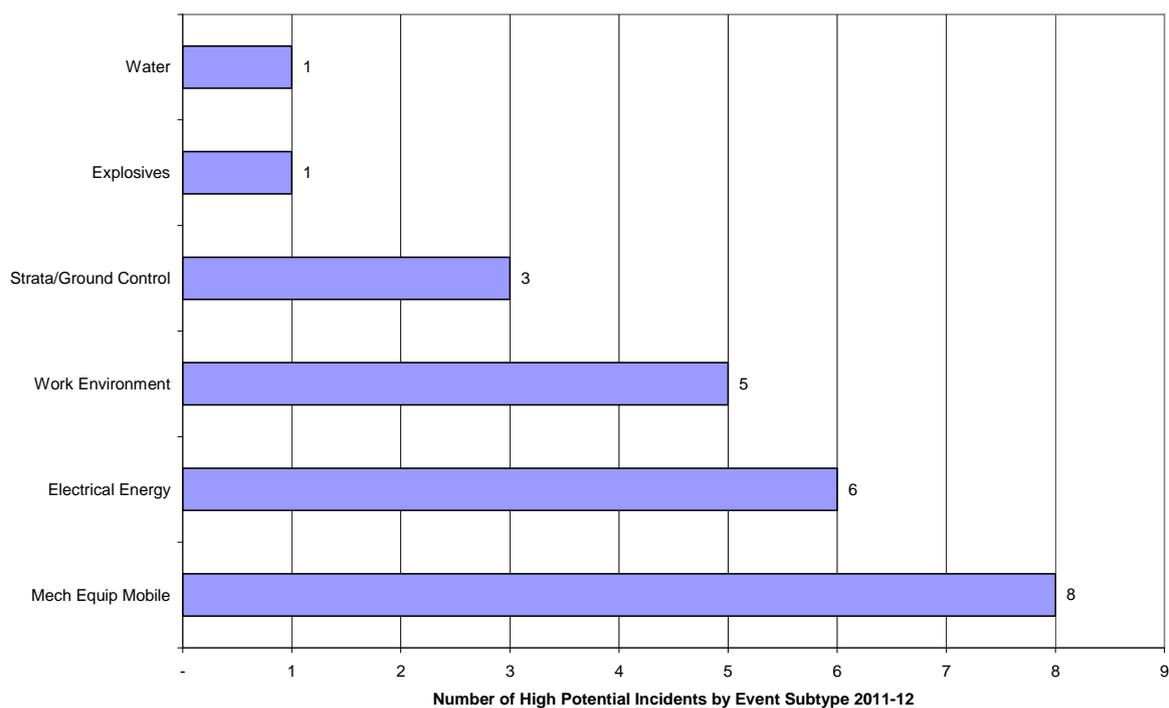


4.5.3 High Potential Incidents by Event Subtype

Figure 62
High Potential Incidents by Event Subtype 1999-2000 to 2011-12

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	2011-12	Total
Mech Equip Mobile	27	31	28	43	38	68	46	53	52	24	10	7	8	435
Electrical Energy	11	14	13	12	19	11	12	17	16	7	2	5	6	145
Work Environment	3	11	5	9	7	12	6	11	19	5	10	8	5	111
Strata/Ground Control	-	5	3	13	4	12	8	5	9	4	4	4	3	74
Explosives	4	6	7	10	5	11	7	8	5	2	1	2	1	69
Mech Equip Fixed	4	7	5	11	12	6	4	3	10	3	-	2	-	67
Hazardous Materials	5	3	2	2	-	1	1	1	-	-	2	-	-	17
Gas	-	-	2	2	3	1	1	1	4	-	1	1	-	16
Water	-	1	1	3	1	1	1	1	1	-	-	2	1	13
Structural Failure	1	1	2	2	-	2	2	-	1	1	-	-	-	12
Dust	2	1	1	2	1	1	-	-	-	1	1	-	-	10
Self Heating	-	-	1	-	1	-	-	1	1	2	-	-	-	6
Total	57	80	70	109	91	126	88	101	118	49	31	31	24	975

Figure 63
High Potential Incidents by Event Subtype 2011-12



4.6 Complaint Incidents

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

4.6.1 Complaint Incidents by Sector

Figure 64

Complaint Incidents by Sector 1999-00 to 2011-12

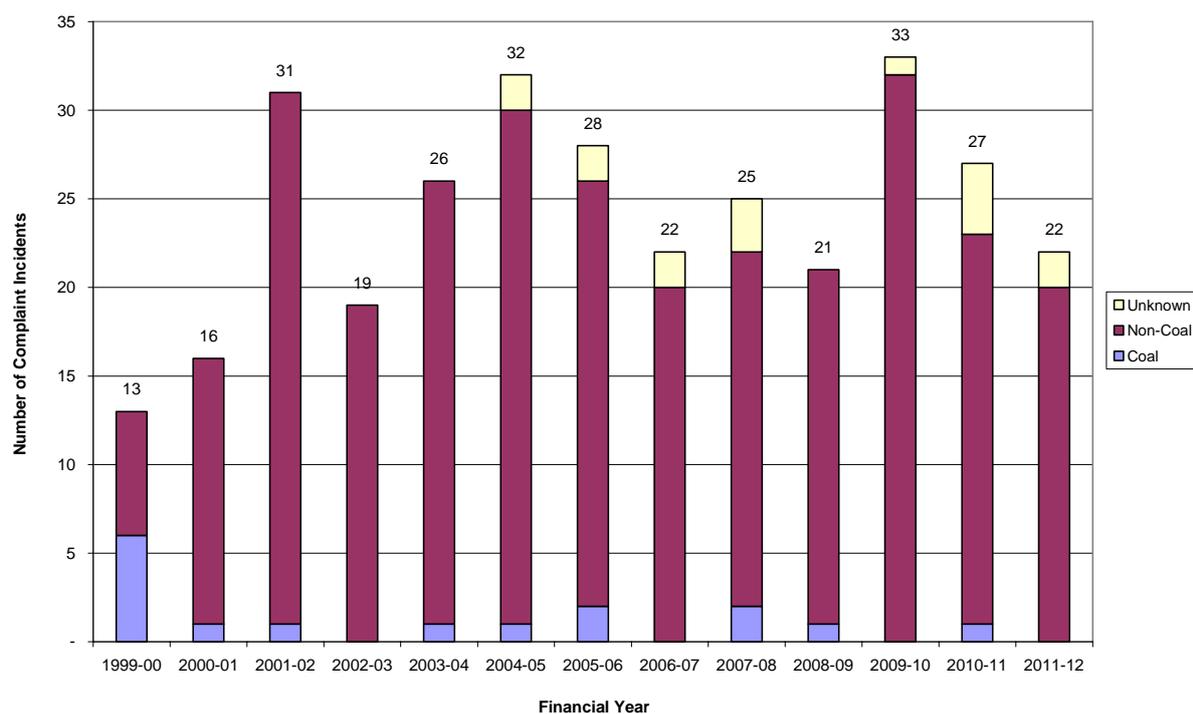
NB "Unknown" refers to incidents reported by non-mine organisations

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	2011-12	Total
Non-Coal	7	15	30	19	25	29	24	20	20	20	32	22	20	283
Coal	6	1	1	-	1	1	2	-	2	1	-	1	-	16
Unknown	-	-	-	-	-	2	2	2	3	-	1	4	2	16
Total	13	16	31	19	26	32	28	22	25	21	33	27	22	315

Figure 65

Complaint Incidents by Sector 1999-00 to 2011-12

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



4.6.2 Complaint Incidents by Incident Investigation Level

Figure 66
Complaint Incidents by Incident Investigation Level 1999-00 to 2011-12

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	2011-12	Total
Level 1 - No need to attend. Mine to investigate & report.	2	4	3	3	4	3	15	9	10	5	13	9	9	89
Level 2 - Official to attend mine.	-	1	1	2	1	3	7	13	15	16	20	18	13	110
Level 3 - Detailed investigation suitable for further action	1	-	-	2	3	-	-	-	-	-	-	-	-	6
No Data	10	11	27	12	18	26	6	-	-	-	-	-	-	110
Total	13	16	31	19	26	32	28	22	25	21	33	27	22	315

Figure 67
Complaint Incidents by Incident Investigation Level 1999-00 to 2011-12

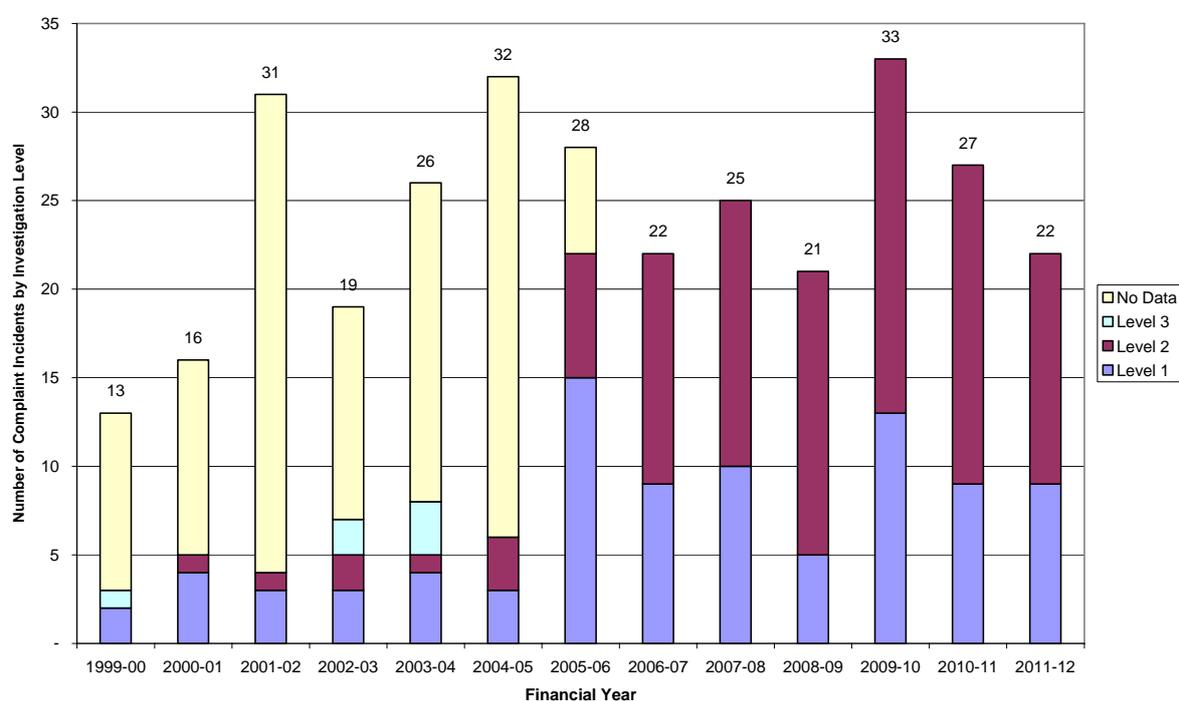
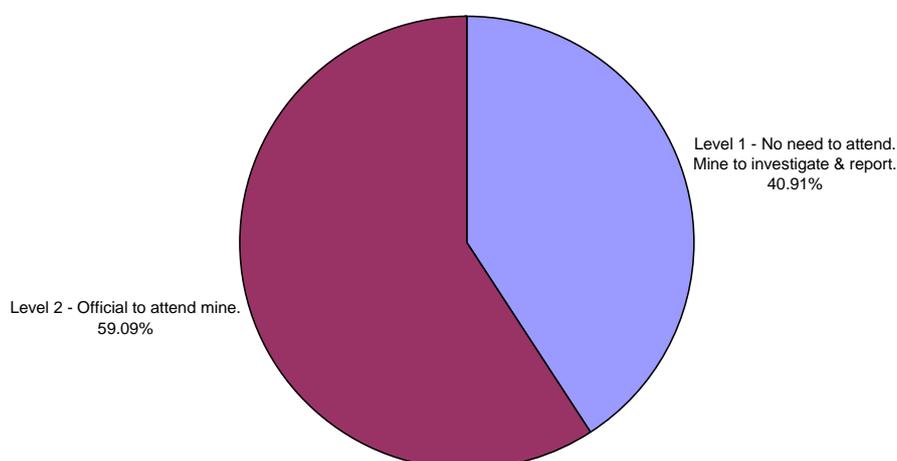


Figure 68
Complaint Incidents by Incident Investigation Level 2011-12

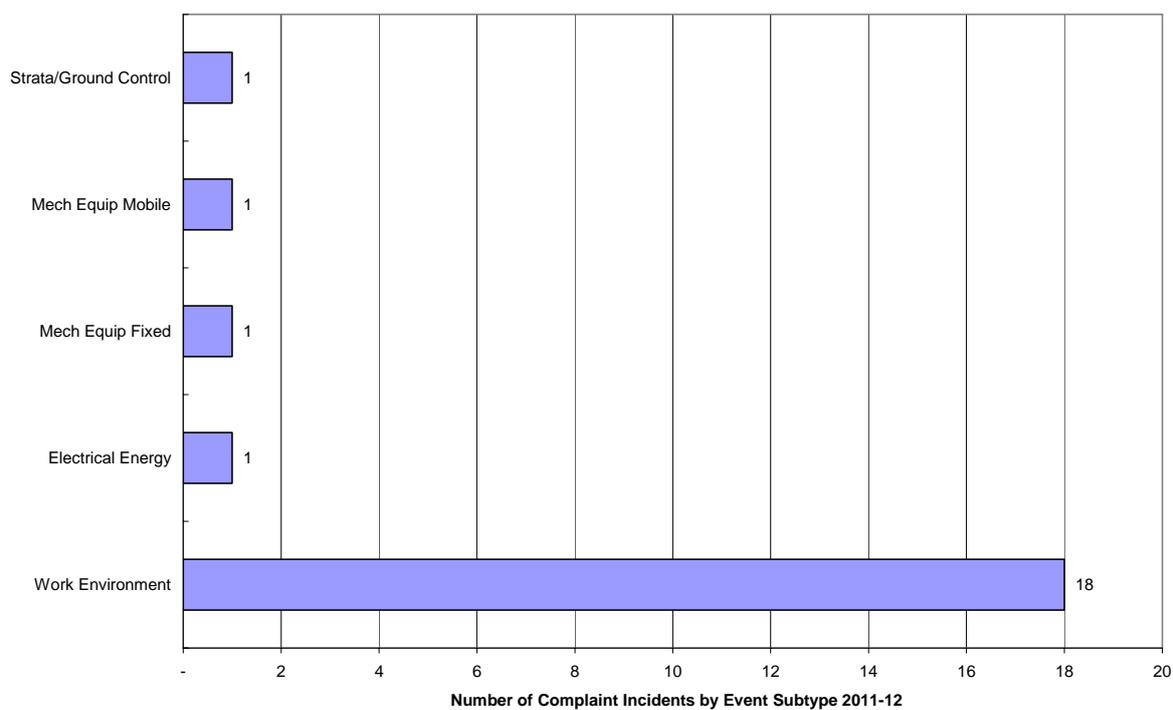


4.6.3 Complaint Incidents by Event Subtype

Figure 69
Complaint Incidents by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Work Environment	5	11	19	10	16	22	19	17	15	12	26	17	18	207
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	1	33
Strata/Ground Control	1	-	-	-	1	-	1	-	1	1	1	1	1	8
Dust	-	-	1	-	-	-	-	-	-	1	2	1	-	5
Electrical Energy	2	-	1	-	-	-	-	-	-	-	1	-	1	5
Mech Equip Fixed	-	-	1	-	-	1	-	-	-	-	-	-	1	4
Hazardous Materials	-	-	1	-	-	-	-	-	1	-	-	1	-	3
Structural Failure	-	-	-	1	-	-	2	-	-	-	-	-	-	3
Gas	-	-	-	-	-	1	-	-	1	-	-	-	-	2
Water	-	1	-	1	-	-	-	-	-	-	-	-	-	2
Total	13	16	31	19	26	32	28	22	25	21	33	27	22	315

Figure 70
Complaint Incidents by Event Subtype 2011-12



5 INJURIES

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

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

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

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

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

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

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

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

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

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

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

5.1 Hours Worked

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

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

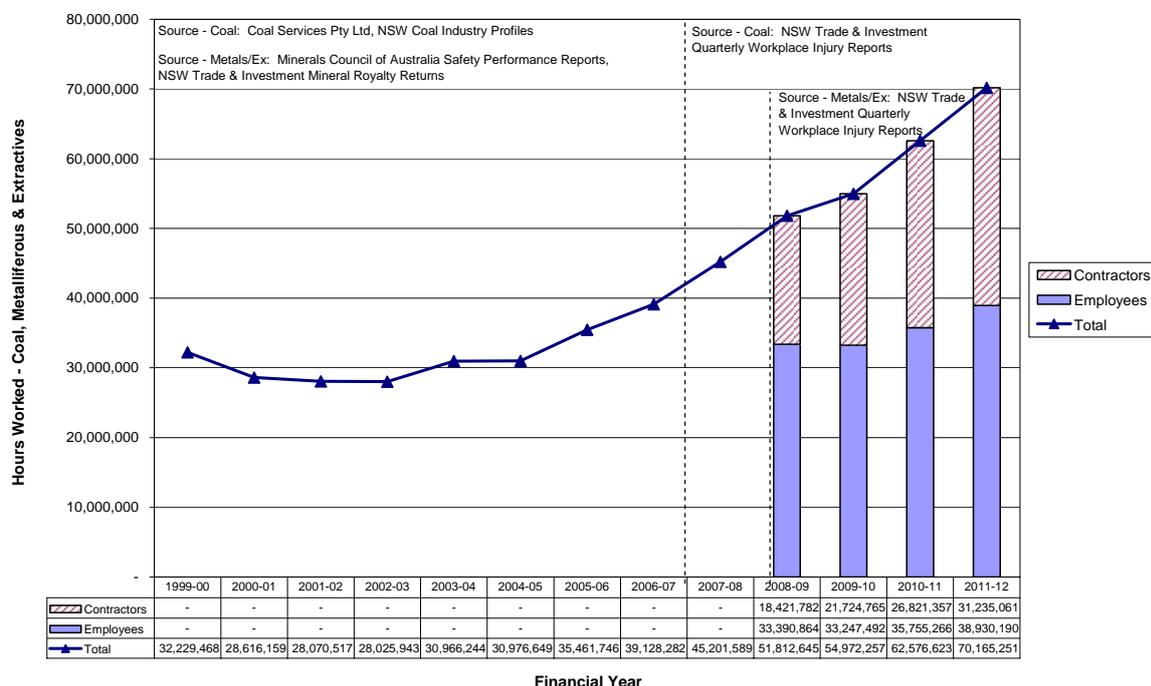
From 2010-11 to 2011-12:

- Coal sector hours worked rose by 15.5% and have doubled since 2005-06.
- Coal Underground hours worked rose by 11.9%.
- Coal Surface hours worked rose by 18.1%.
- Metalliferous sector hours worked rose by 2.8%.
- Extractives sector hours worked rose by 6.6%.
- For the combined Metalliferous and Extractives sector, hours worked rose by 3.7%.

5.1.1 Coal, Metalliferous and Extractives Hours Worked

Figure 71

NSW Coal, Metalliferous and Extractives Total Hours Worked 1999-00 to 2011-12

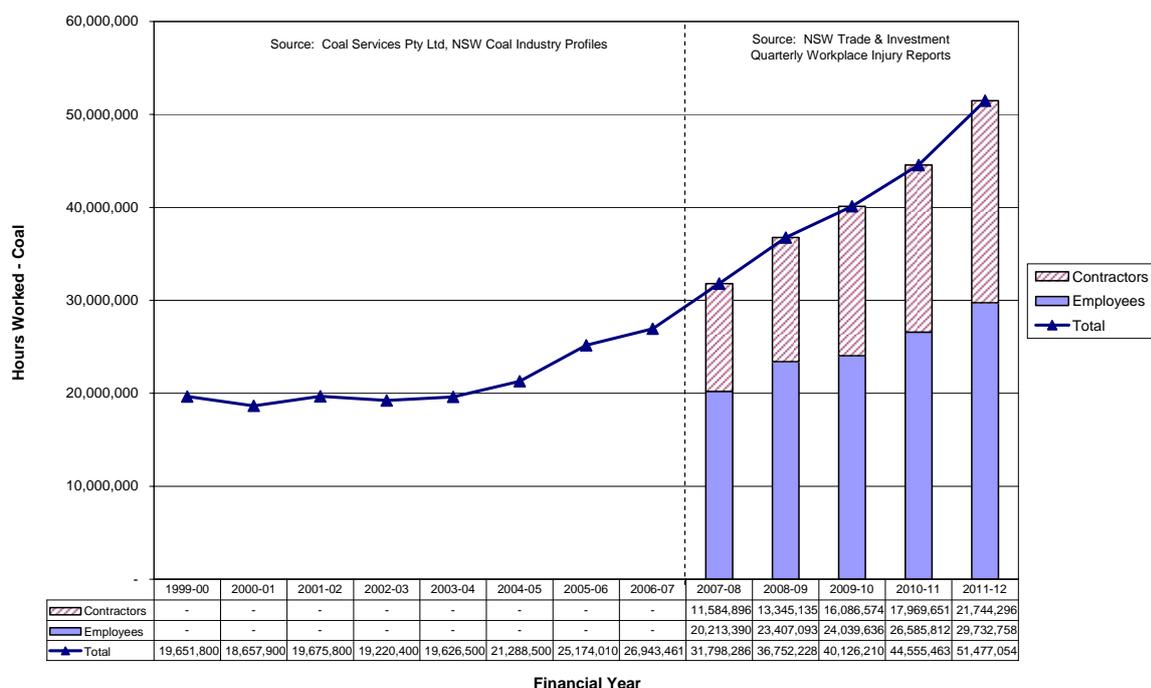


Refer to Appendix A.2 for details of Surface and Underground Hours Worked and Appendix B.9 for Sources of Data.

5.1.2 Coal Hours Worked

Figure 72

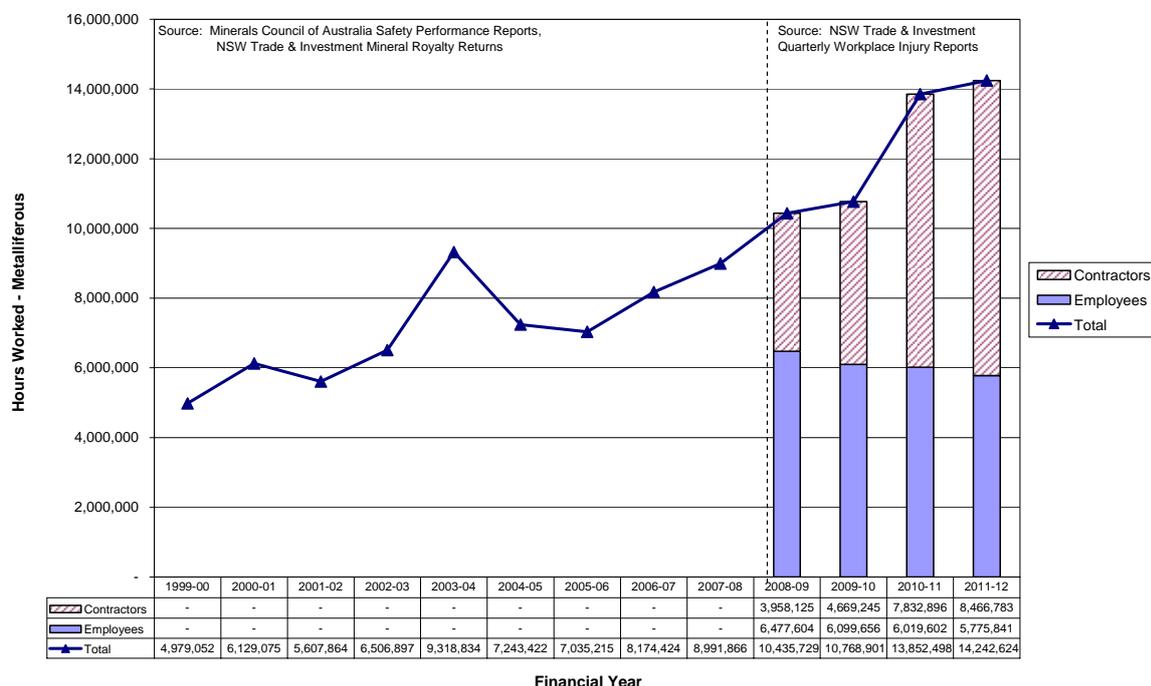
NSW Coal Total Hours Worked 1999-00 to 2011-12



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

5.1.3 Metalliferous Hours Worked

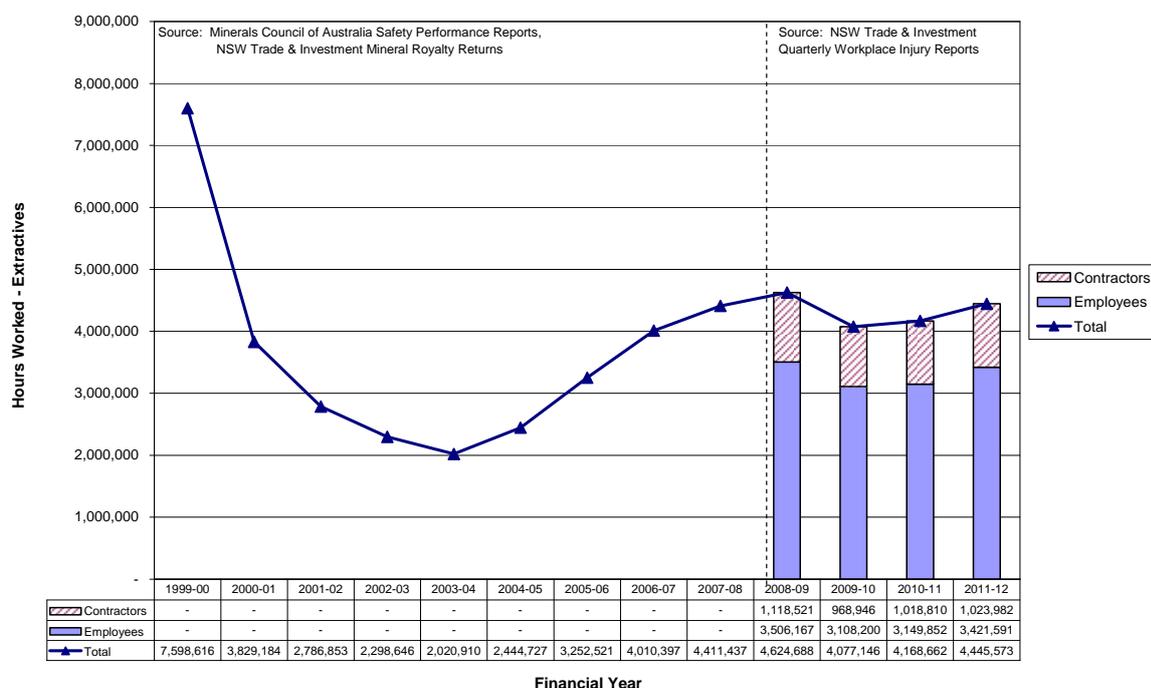
Figure 73
NSW Metalliferous Total Hours Worked 1999-00 to 2011-12



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

5.1.4 Extractives Hours Worked

Figure 74
NSW Extractives Total Hours Worked 1999-00 to 2011-12



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

5.2 Fatalities

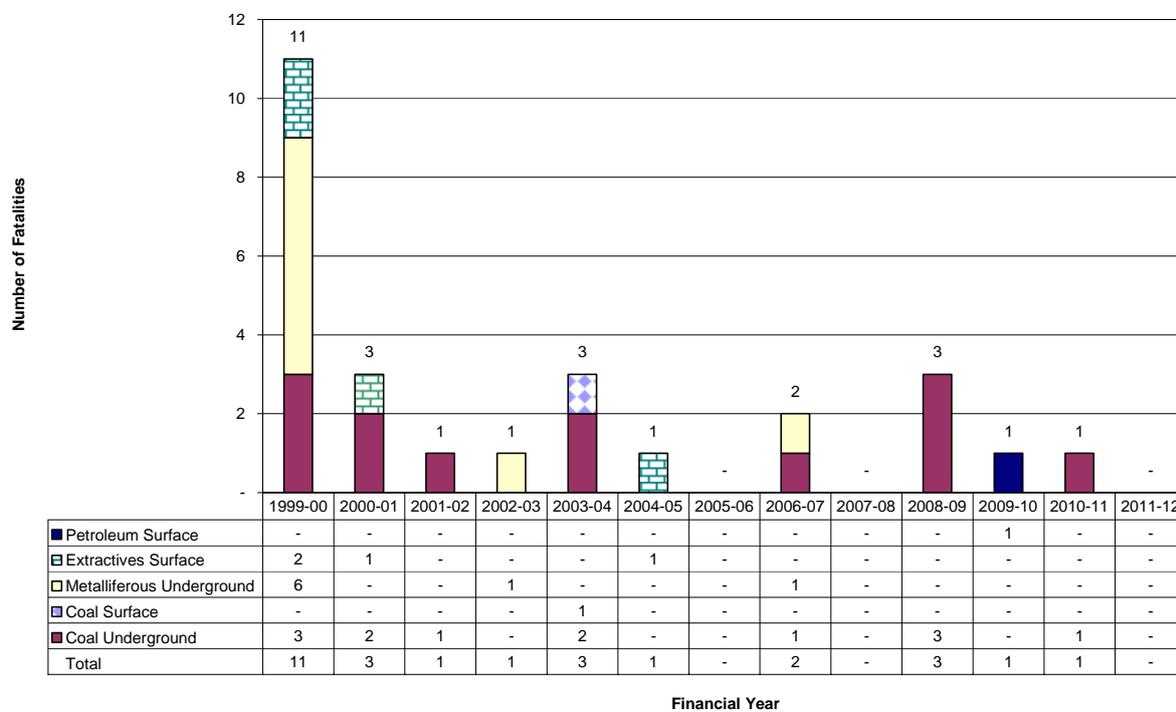
This section provides a breakdown of fatalities in the NSW Mining and Extractives industry.

- In 2011-12 all sectors were fatality free
- There were five fatalities in the NSW Mining and Extractives industry in the five years to June 2012, compared to seven and 23 deaths respectively in the previous two five year periods.
- The NSW Mining and Extractives industry as a whole has had six twelve month periods without a fatality since 2002.
- The Coal sector has reported four fatalities in each of the previous two five year periods.
- The Coal surface sector was fatality free for the eighth consecutive year and for the twelfth time in thirteen years.
- The Metalliferous surface sector has been fatality free for eighteen years.
- The Metalliferous underground sector was fatality free for the fifth consecutive year and for the tenth time in twelve years. The past five year period was fatality free and there were two fatalities in the previous five year period.
- The Extractives sector was fatality free for the seventh consecutive year and for the tenth time in eleven years. There were zero fatalities in the past five year period, and one in the previous five year period.

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

5.2.1 Fatalities by Sector

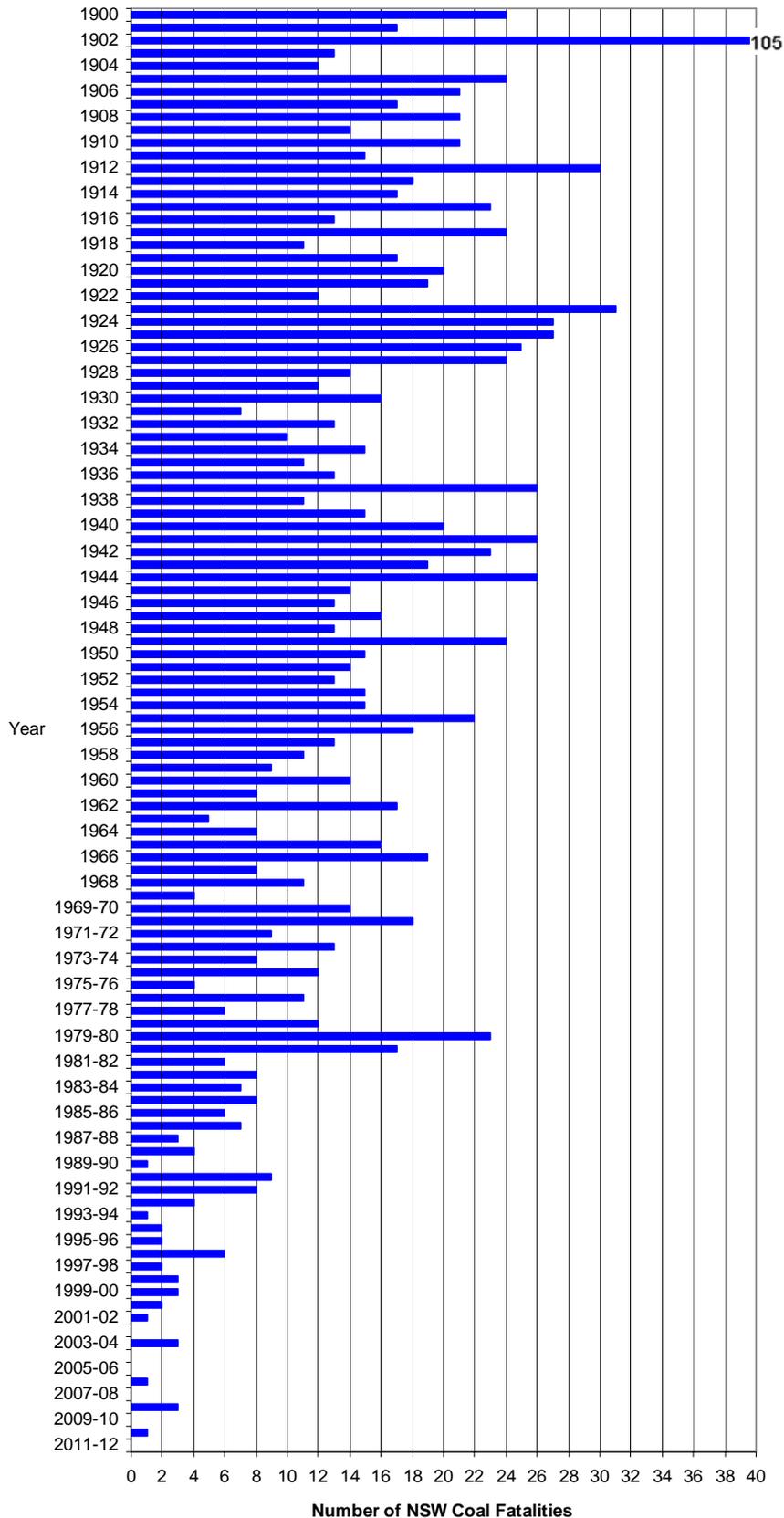
Figure 75
NSW Coal, Metalliferous & Extractives and Petroleum Fatalities by Sector 1999-99 to 2011-12



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

5.2.2 Coal Fatalities since 1900

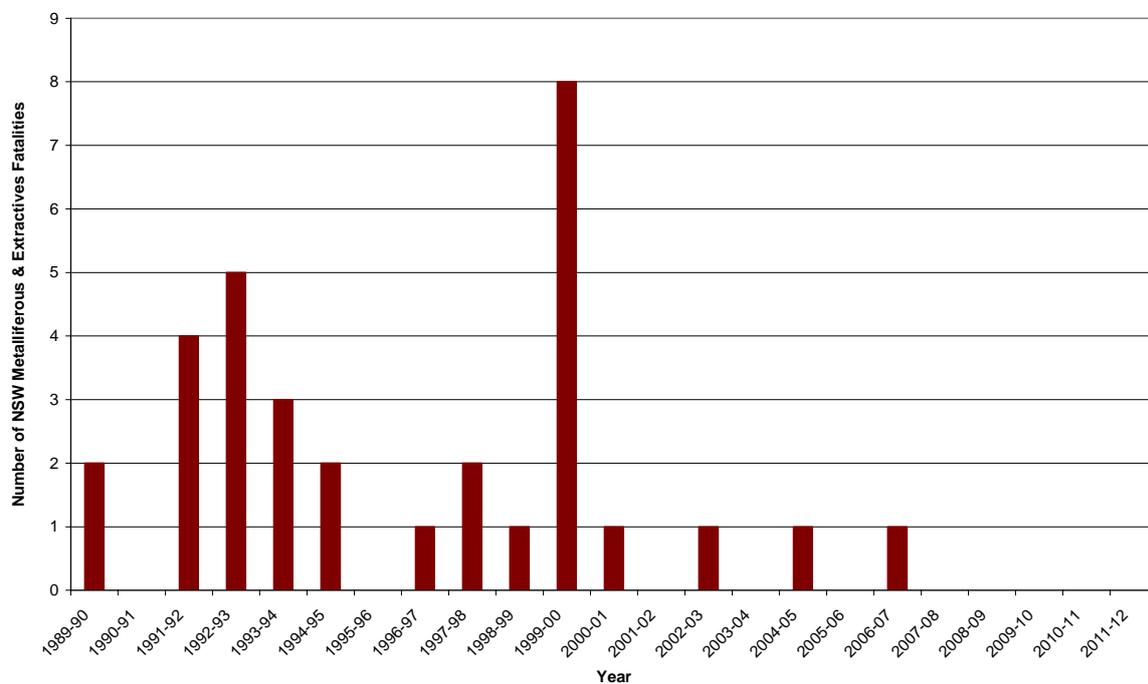
Figure 76
NSW Coal Annual Fatalities 1900 to 2011-12



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

Figure 77

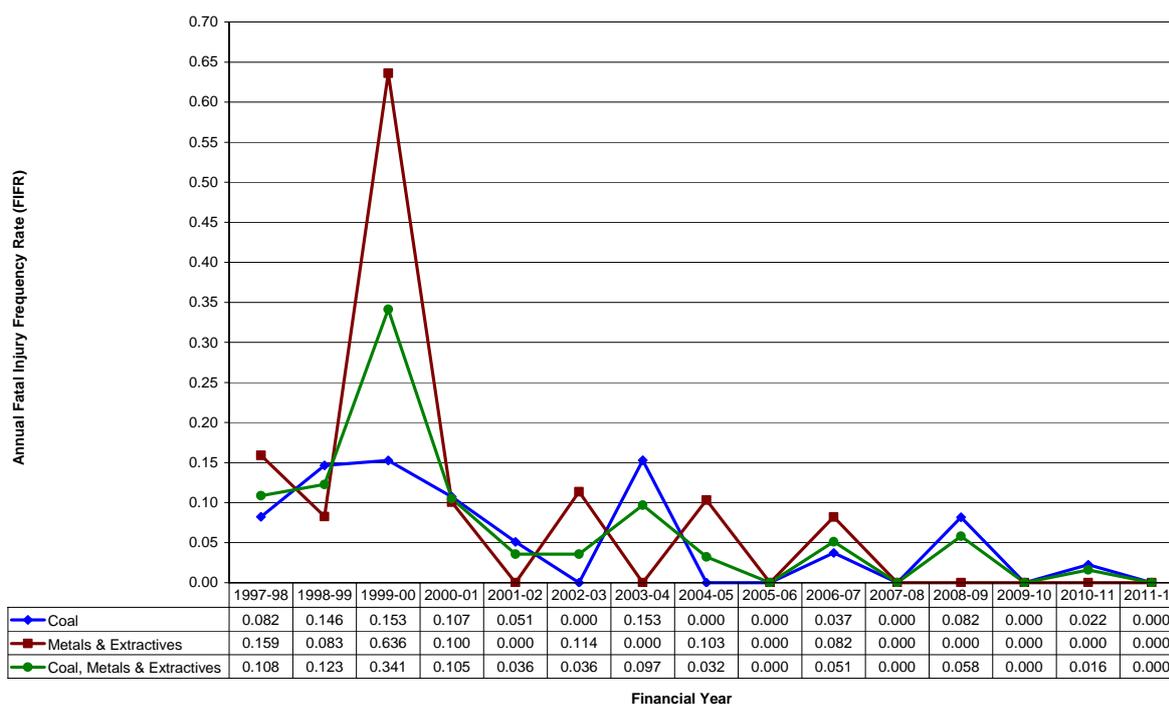
NSW Non-Coal Metalliferous & Extractives Annual Fatalities 1989-90 to 2011-12



5.2.4 Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2011-12

Figure 78

NSW Coal, Metalliferous & Extractives Mining Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2011-12

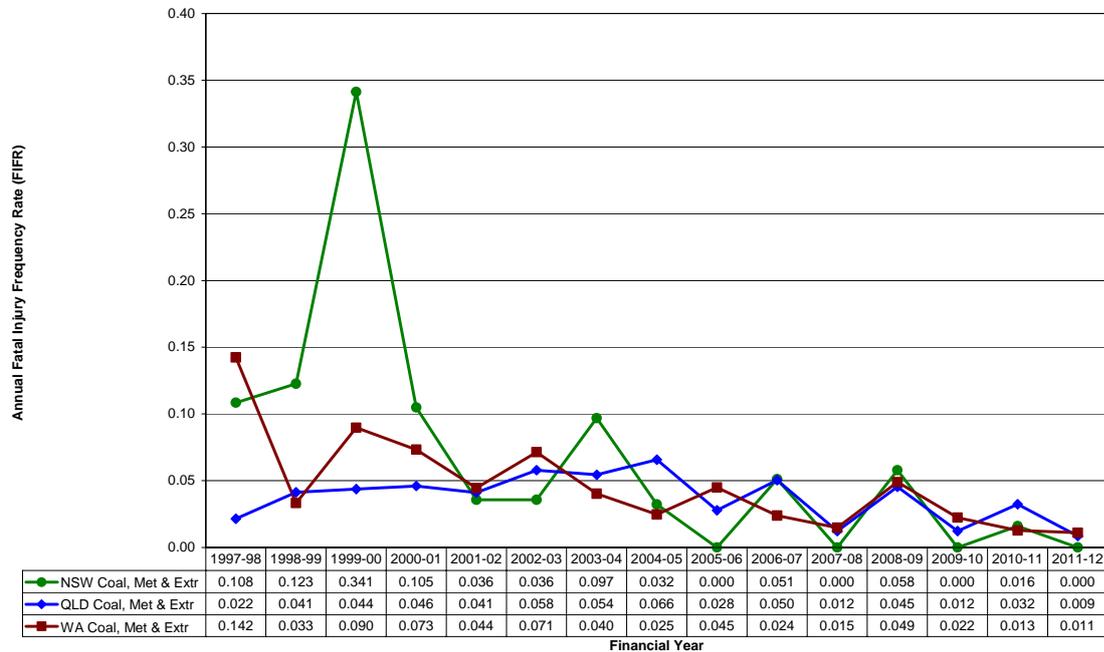


Refer to Figure 1 for Five Year Average Fatal Injury Frequency Rate 1997-98 to 2011-12

5.2.5 Annual Fatal Injury Frequency Rate (FIFR) National Comparison 1997-98 to 2011-12

Figure 79

NSW, QLD and WA Coal, Metalliferous & Extractives Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2011-12

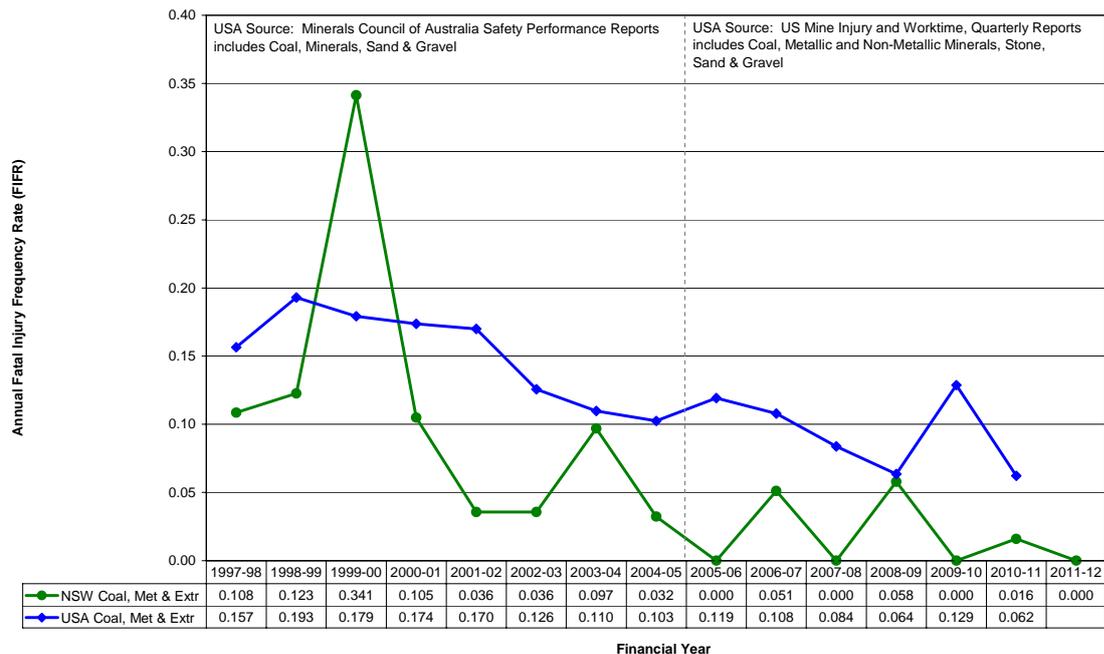


Refer to Appendix B.9 for Sources of Data

5.2.6 Annual Fatal Injury Frequency Rate (FIFR) International Comparison 1997-98 to 2011-12

Figure 80

NSW and USA Coal, Metalliferous & Extractives Annual Fatal Injury Frequency Rate (FIFR) 1997-98 to 2011-12



Refer to Appendix B.9 for Sources of Data

5.3 Lost Time Injuries (LTIs)

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

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

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

In 2011-12:

- 58.7% of all LTIs occurred at underground operations.
- The Coal LTIFR of 5.25 was 24.79% below the five year average of 6.98.
- The Metalliferous & Extractives sector LTIFR of 3.96 was 22.81% below the five year average of 5.13
- The Coal, Metalliferous & Extractives LTIFR of 4.9 was 24.03% below the five year average of 6.45

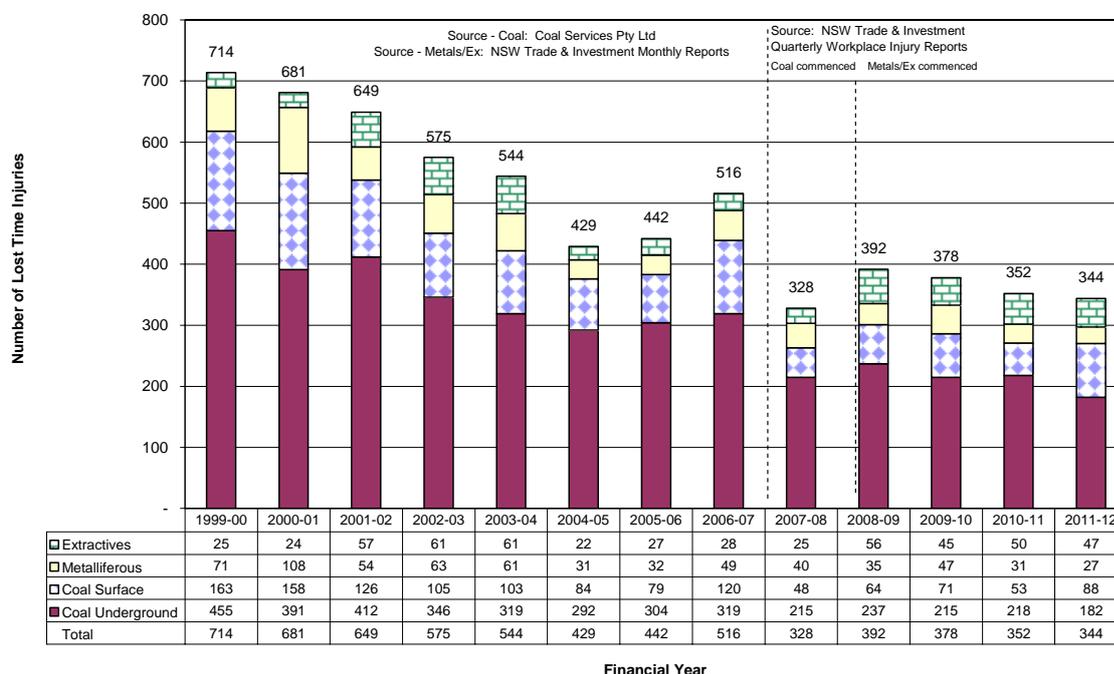
From 2010-11 to 2011-12:

- The number of Coal Surface LTIs increased 66% from 53 to 88 and the number of Coal Underground LTIs decreased 16.5% from 218 to 182. The overall number of Coal sector LTIs remained relatively constant at 270
- The Coal sector LTIFR fell by 13.65% from 6.08 to 5.25
- The number of Metalliferous LTIs fell 12.9% from 31 to a record low of 27 and Extractives LTIs fell 6%.from 50 to 47
- The overall number of LTIs in the Metalliferous & Extractives sector decreased by 8.6% from 81 to 74, and the LTIFR fell by 13.7% from 4.61 to a record low of 3.96

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

5.3.1 Lost Time Injuries by Sector

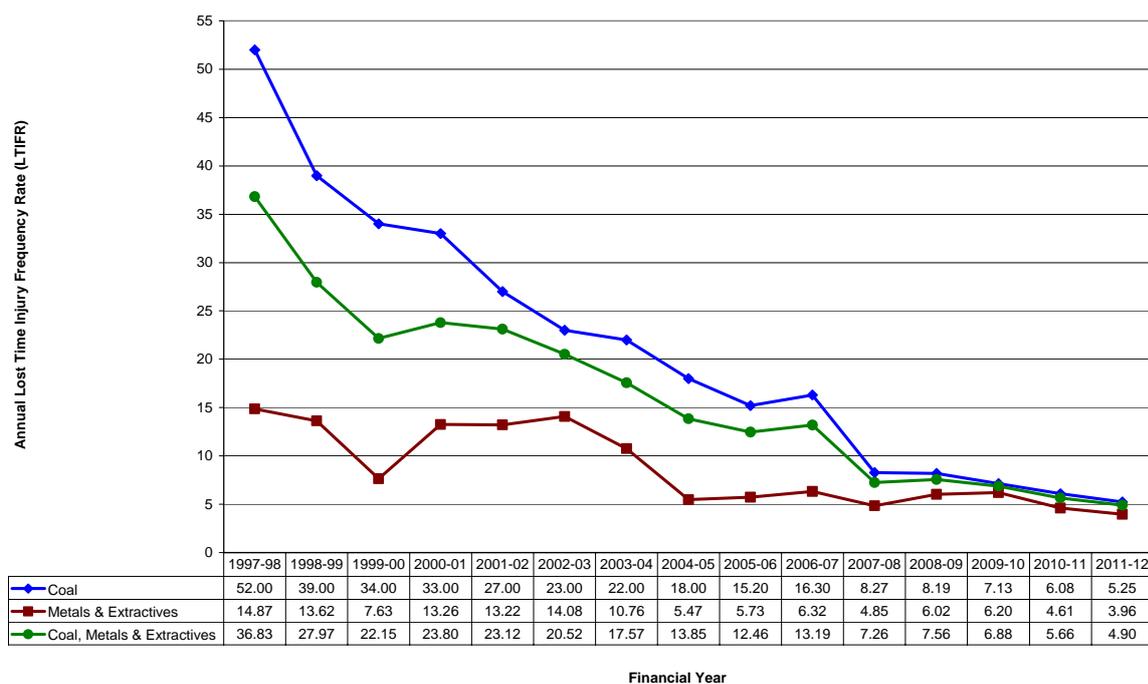
Figure 81
NSW Coal, Metalliferous & Extractives Lost Time Injuries by Sector 1999-00 to 2011-12



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

5.3.2 Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12

Figure 82
NSW Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12



Refer to Figure 2 for Five Year Average Lost Time Injury Frequency Rate 1997-98 to 2011-12

Figure 83
NSW Coal Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12

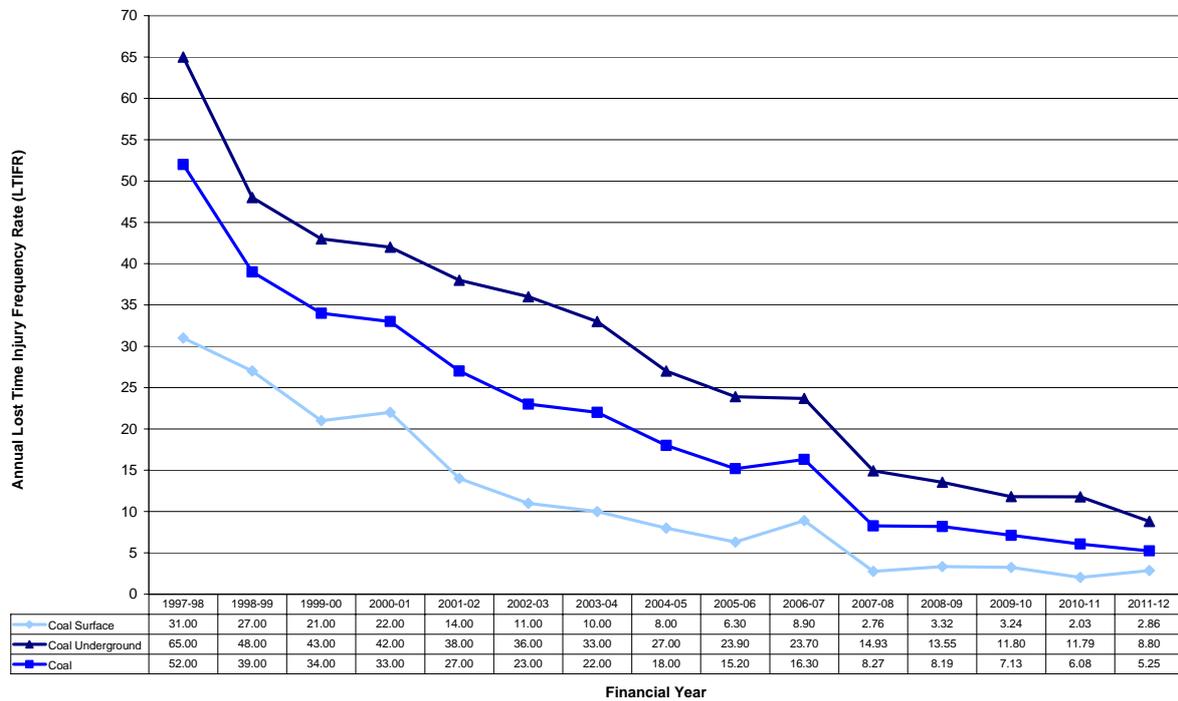
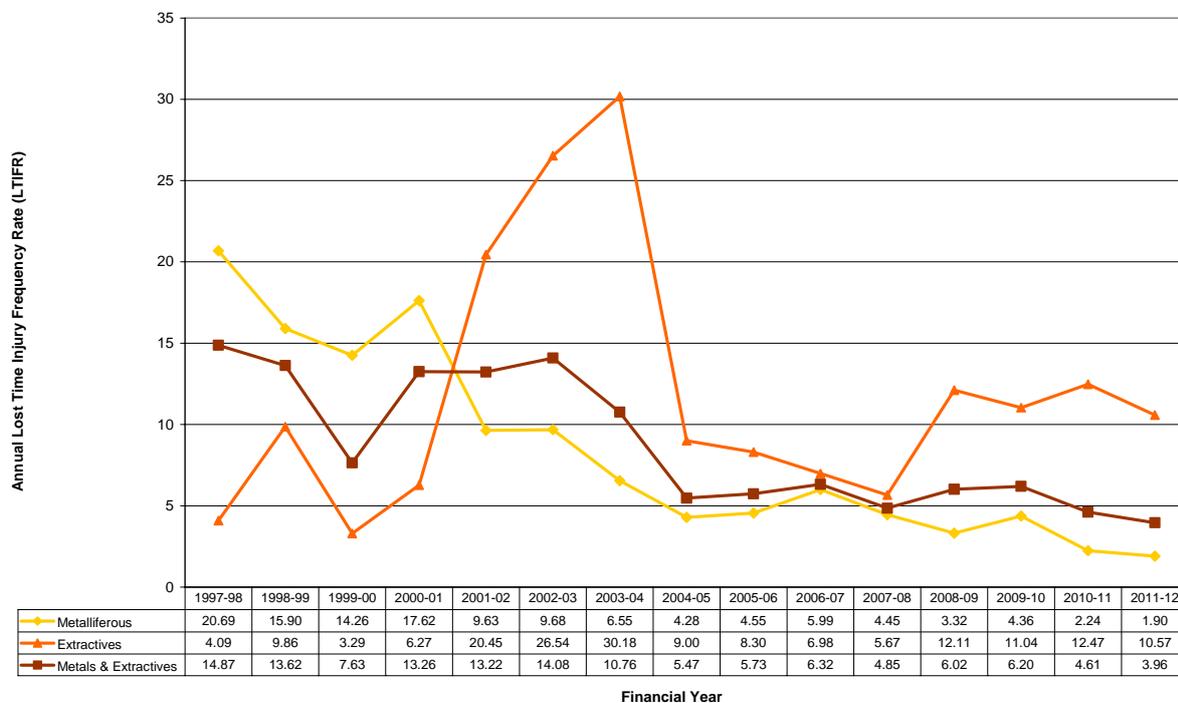


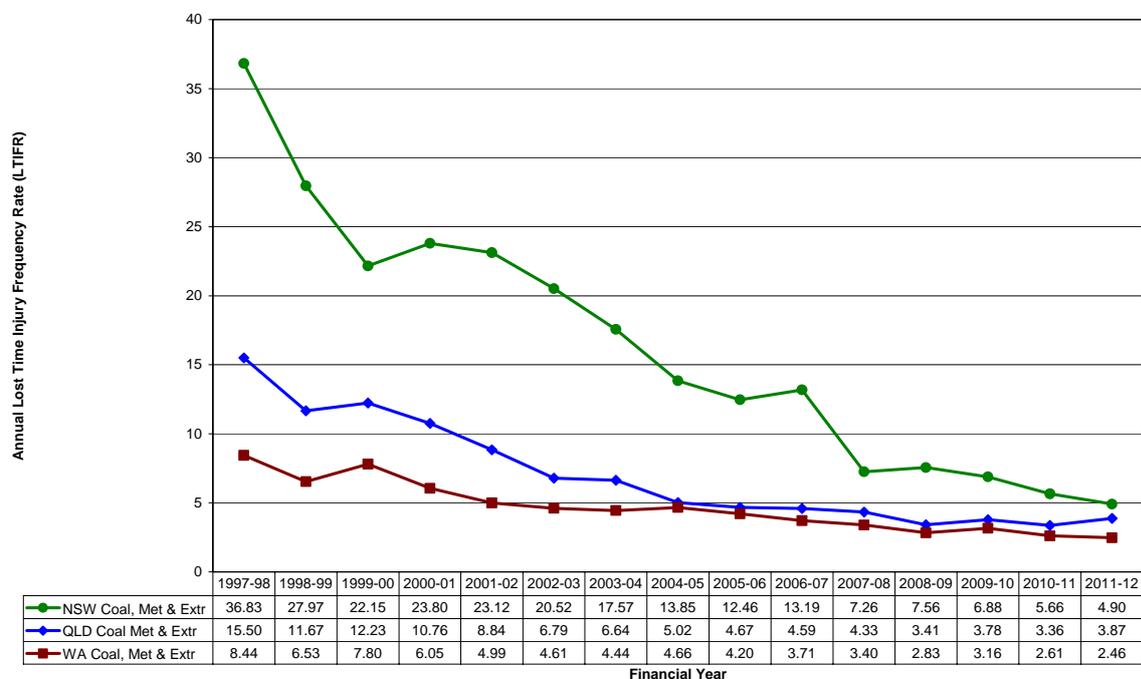
Figure 84
NSW Metalliferous and Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12



5.3.3 Annual Lost Time Injury Frequency Rate (LTIFR) National Comparison 1997-98 to 2011-12

Figure 85

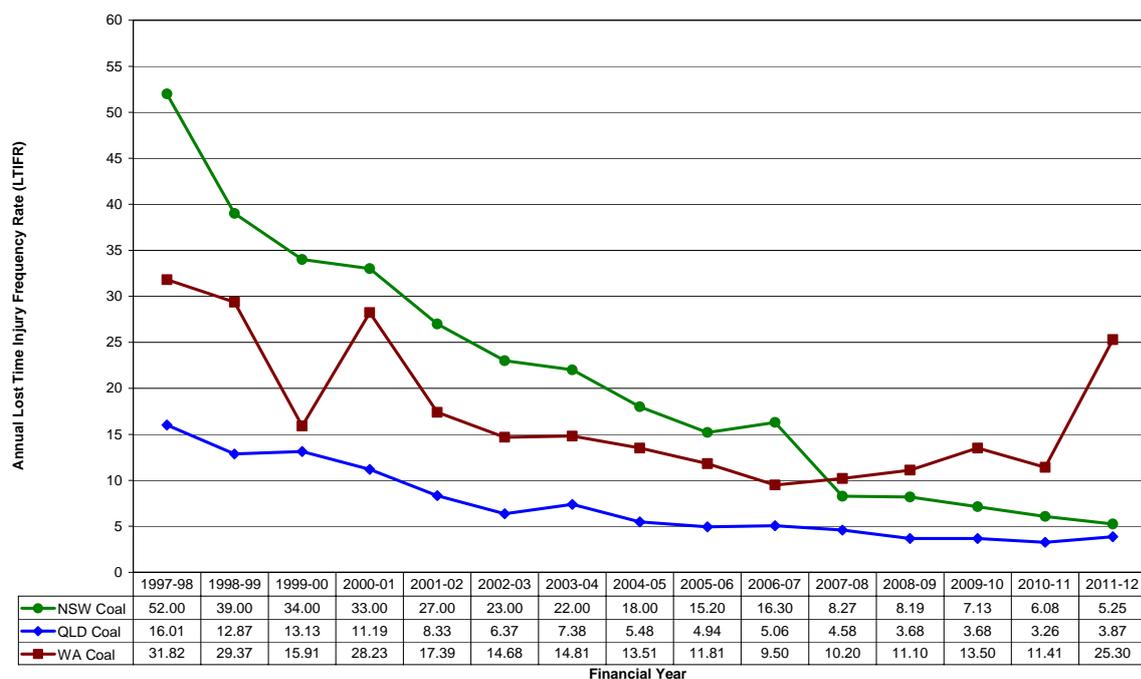
NSW, QLD and WA Coal, Metalliferous & Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12



Refer to Appendix B.9 for Sources of Data

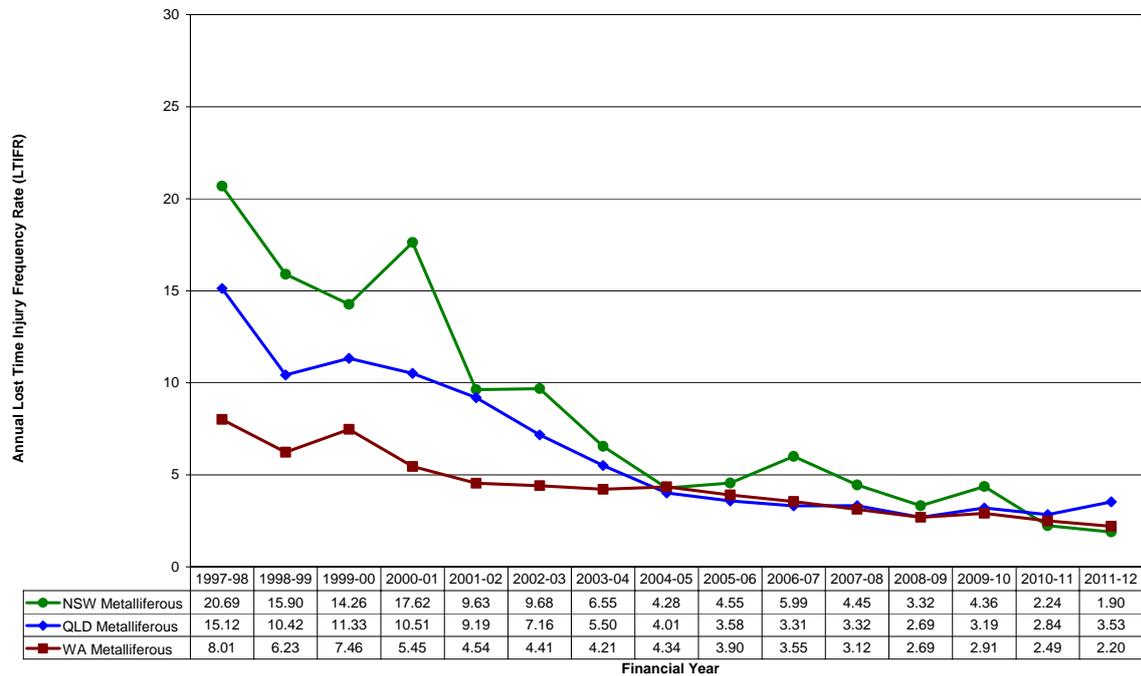
Figure 86

NSW, QLD and WA National Coal Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12



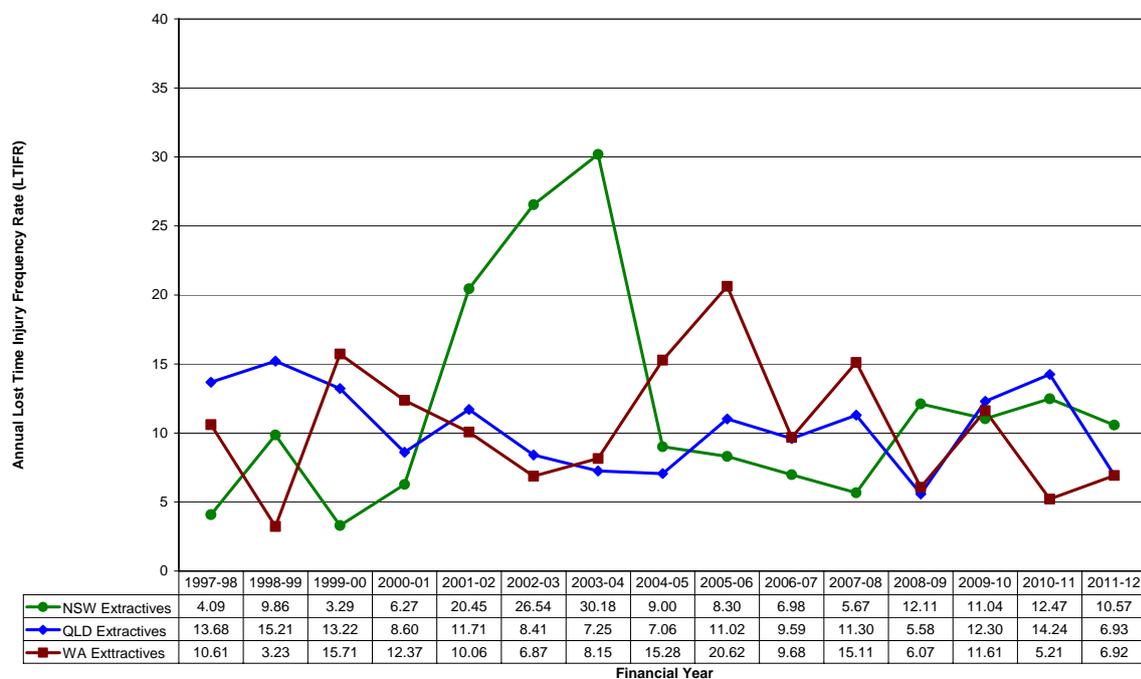
Refer to Appendix B.9 for Sources of Data

Figure 87
NSW, QLD and WA Metalliferous Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12



Refer to Appendix B.9 for Sources of Data

Figure 88
NSW, QLD and WA Extractives Annual Lost Time Injury Frequency Rate (LTIFR) 1997-98 to 2011-12



Refer to Appendix B.9 for Sources of Data

5.3.4 Annual Lost Time Injury International Comparison 1997-98 to 2011-12

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

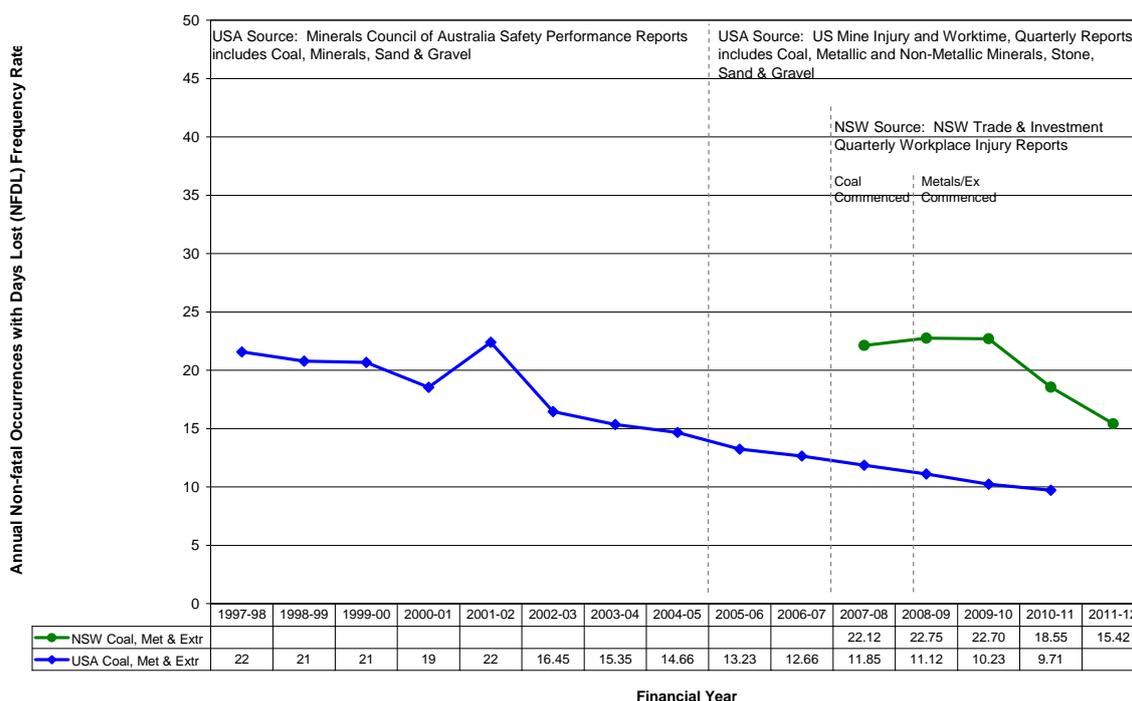
The USA NFDL is defined as “Non-Fatal Injury Occurrences with Days Lost” and represents “non-fatal injury occurrences that result in days away from work or days of restricted work activity”.

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

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

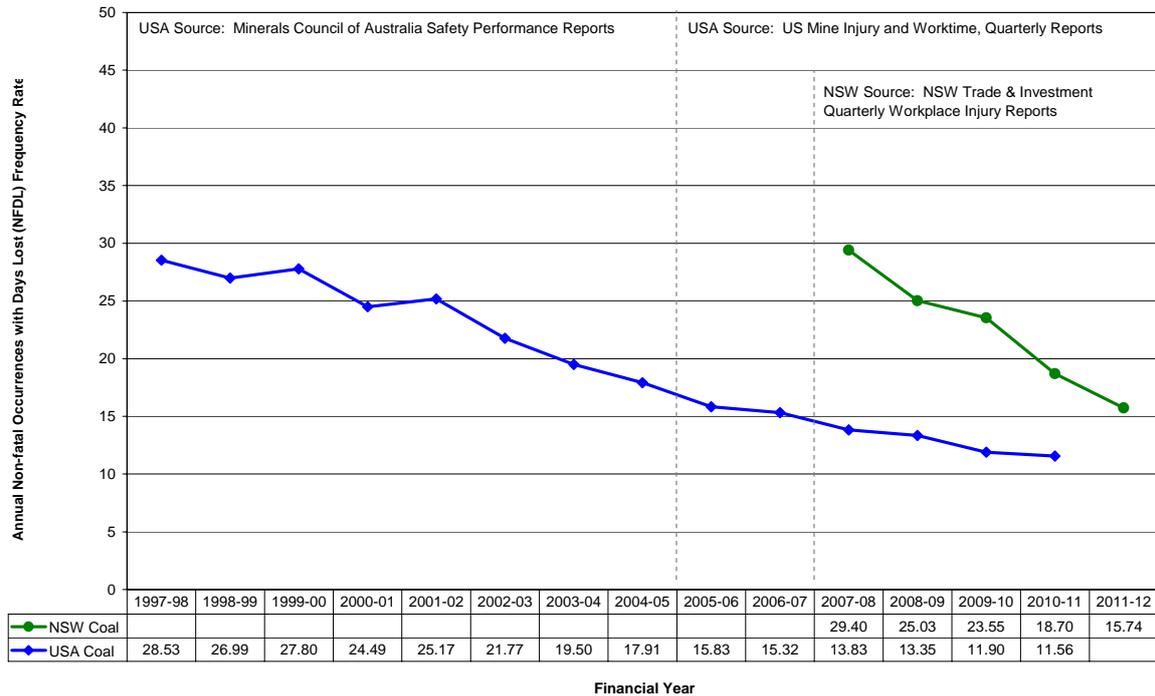
For further information refer to the *Definitions and Appendix B.9 for Sources of Data and further details of Injury Classifications*

Figure 89
NSW and USA Coal, Metalliferous & Extractives Annual NFDL Frequency Rate 1997-98 to 2011-12



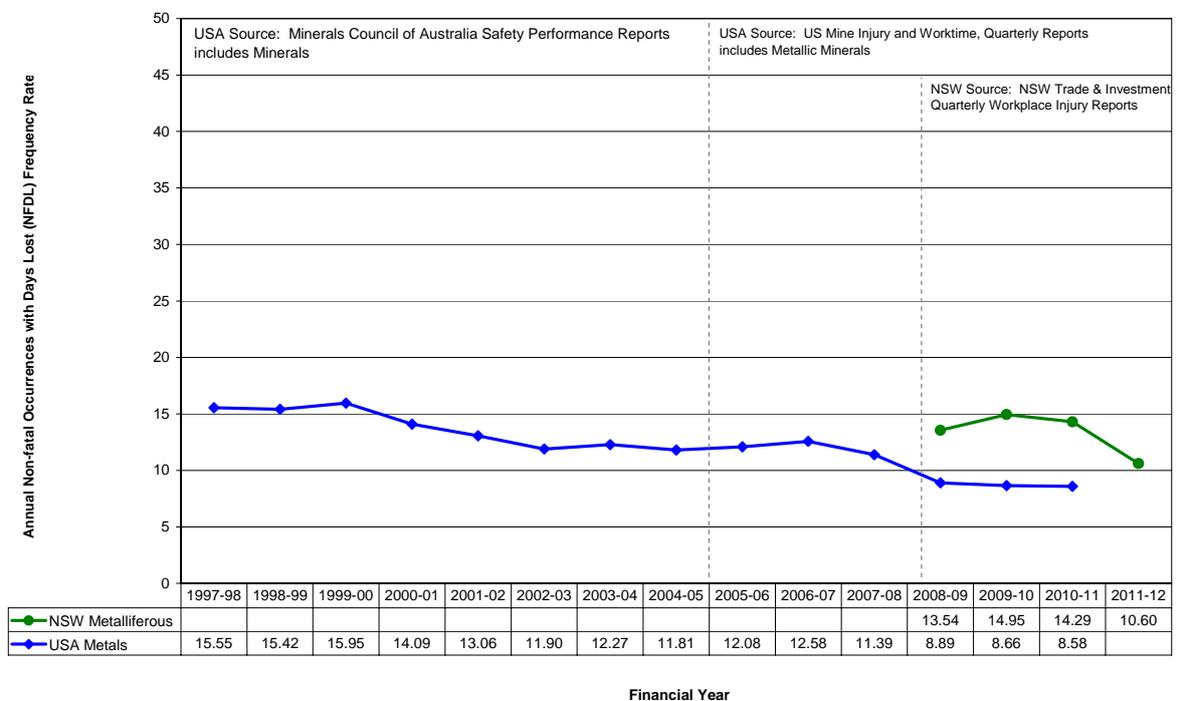
Refer to Appendix B.9 for Sources of Data

Figure 90
NSW and USA Coal Annual NFDL Frequency Rate 1997-98 to 2011-12



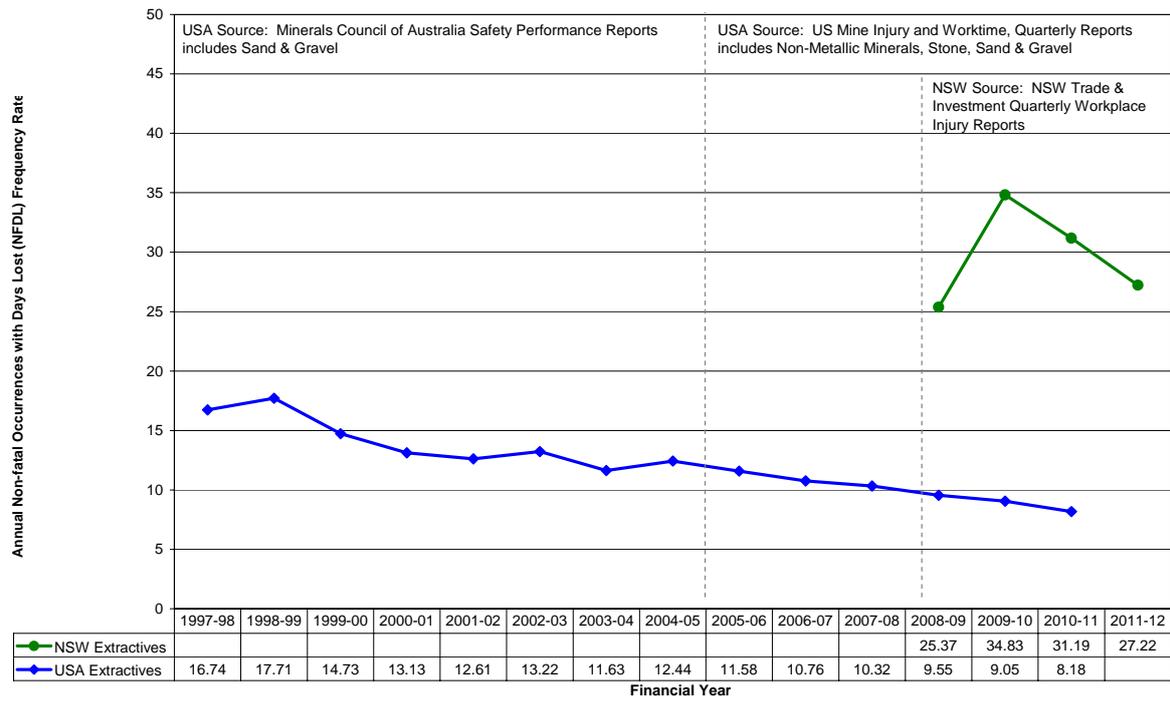
Refer to Appendix B.9 for Sources of Data

Figure 91
NSW and USA Metalliferous Annual NFDL Frequency Rate 1997-98 to 2011-12



Refer to Appendix B.9 for Sources of Data

Figure 92
NSW and USA Extractives Annual NFDL Frequency Rate 1997-98 to 2011-12



Refer to Appendix B.9 for Sources of Data

5.4 Total Recordable Injuries (TRIs)

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

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

In 2011-12:

- Over two thirds of all TRIs occurred at underground operations

From 2010-11 to 2011-12:

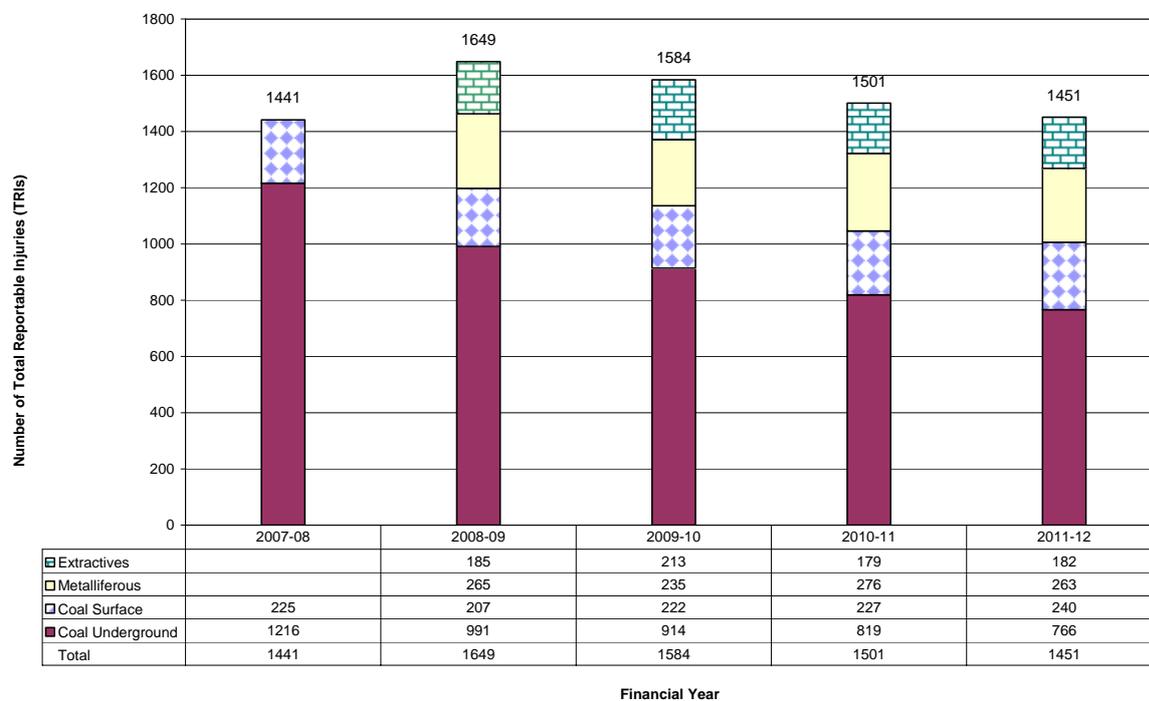
- The number of Coal underground TRIs fell by 6.47% from 819 to 766, the number of Coal surface TRIs rose by 5.73% from 227 to 240 and the total number of Coal TRIs fell by 3.82% from 1046 to 1006
- The number of Metalliferous underground TRIs rose by 17.02% from 188 to 220, the number of Metalliferous surface TRIs fell by more than half from 88 to 43 and the total number of Metalliferous TRIs fell by 4.71% from 276 to 263
- The number of Extractives TRIs rose by 1.68% from 179 to 182
- The overall number of TRIs fell by 3.33% from 1501 to 1451

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

5.4.1 Total Recordable Injuries by Sector

Figure 93

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Sector 2007-08 to 2011-12



5.4.2 Total Recordable Injuries by Injury Type

Figure 94

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2011-12

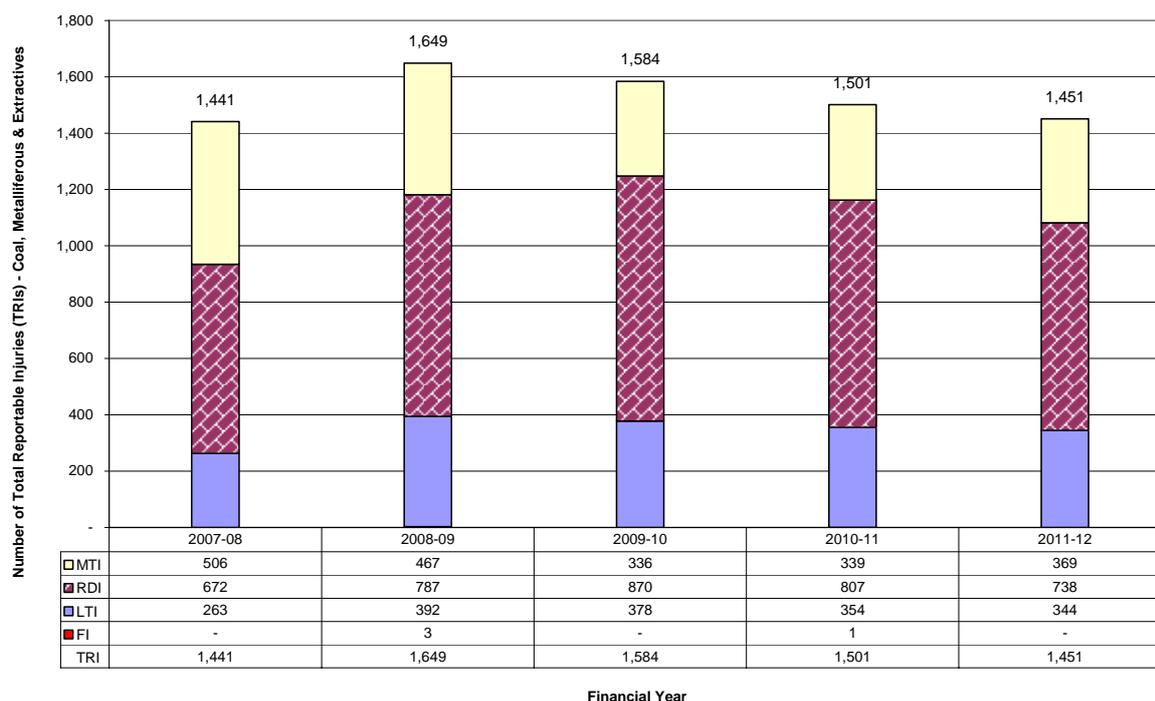


Figure 95
NSW Coal Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2011-12

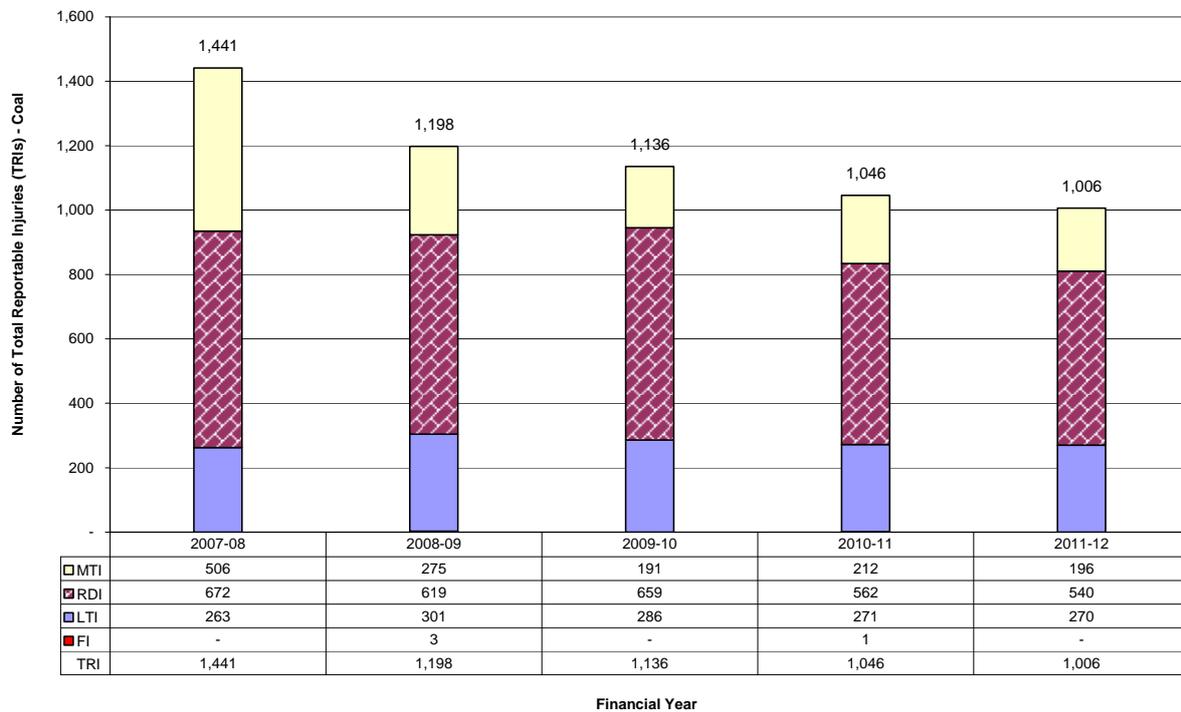
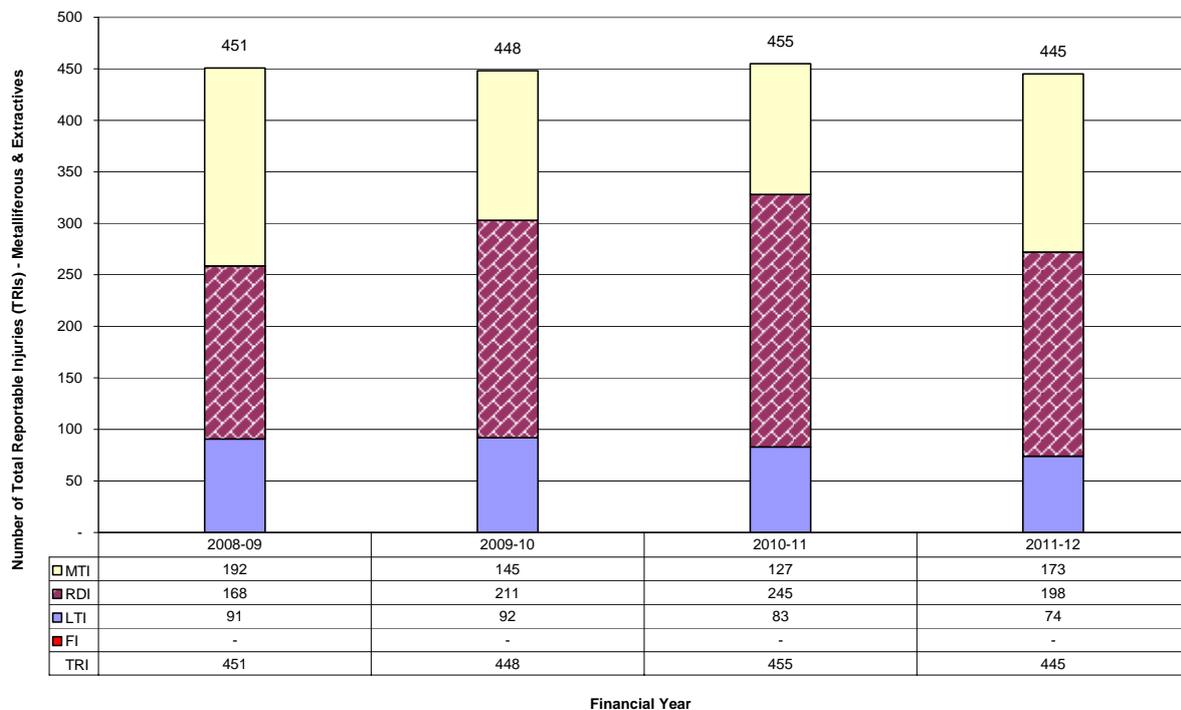


Figure 96
NSW Metalliferous & Extractives Total Recordable Injuries (TRIs) by Injury Type 2007-08 to 2011-12



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

Figure 97
NSW Coal, Metalliferous & Extractives Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2011-12



Figure 98
NSW Coal Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2011-12

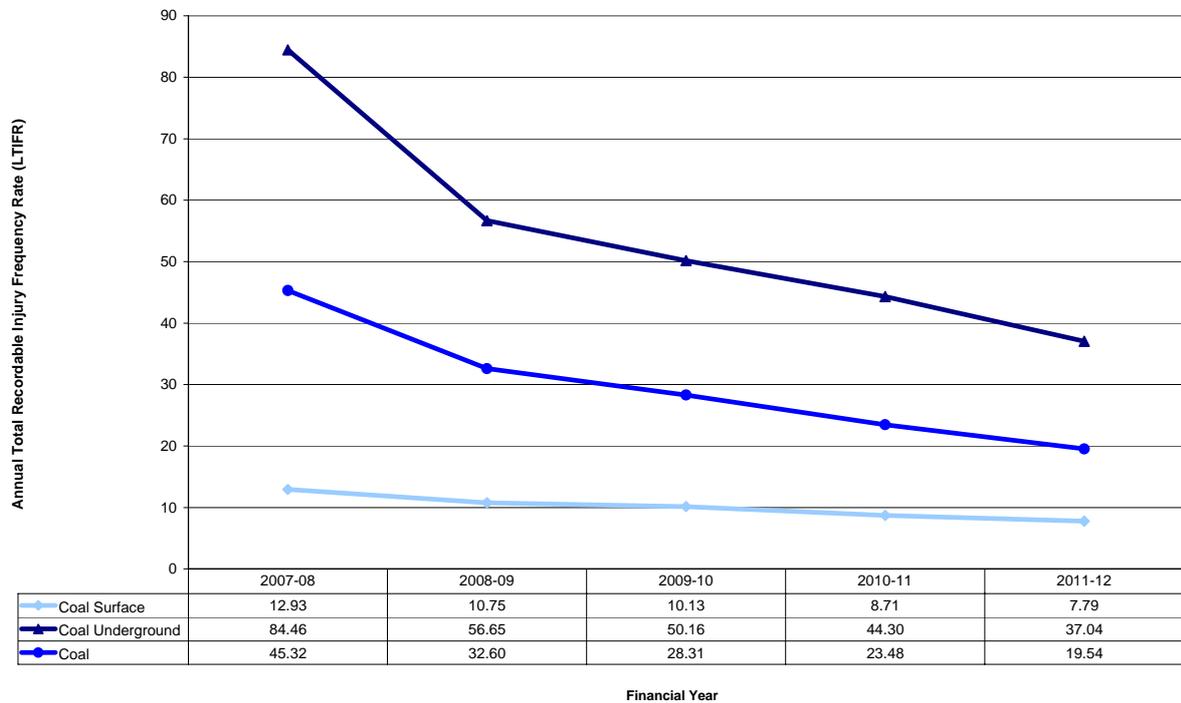
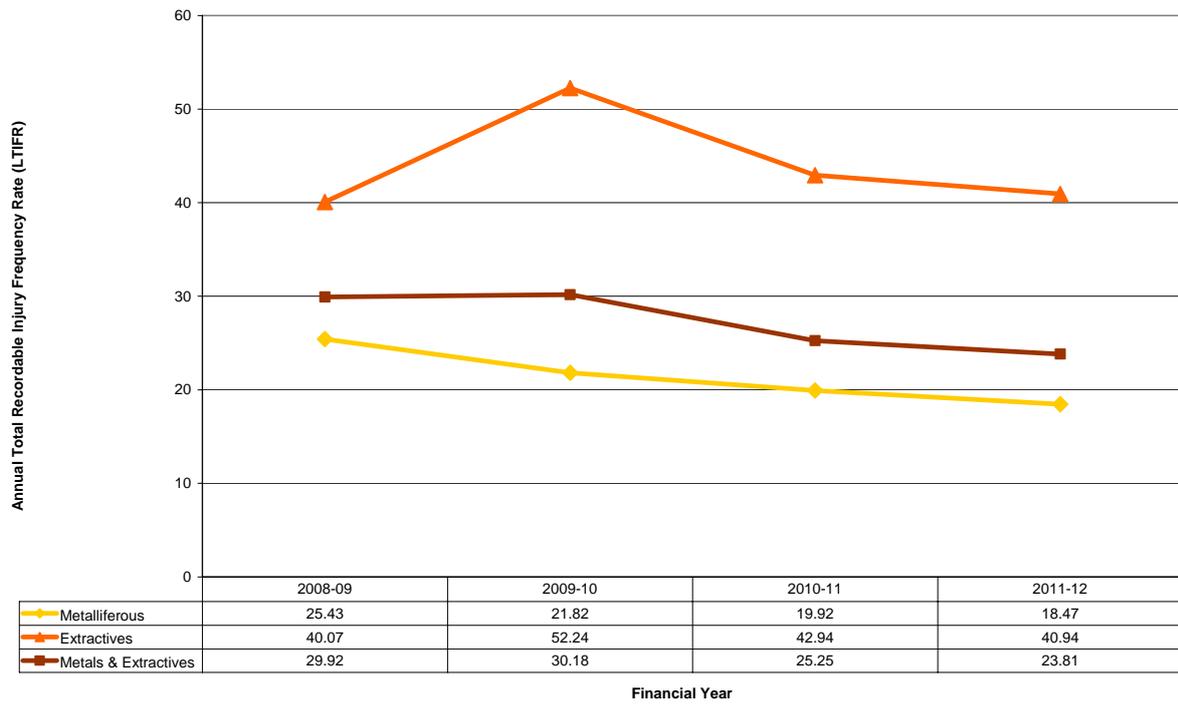


Figure 99
 NSW Metalliferous & Extractives Total Recordable Injury Frequency Rate (TRIFR) 2007-08 to 2011-12



5.5 Serious Bodily Injuries (SBIs)

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

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

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

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

In 2011-12:

- SBIs were predominantly associated with falls of person, and fractures were the most common nature of injury. Rib, leg, ankle and arm injuries featured prominently. The majority of SBIs were to direct mine employees, almost two thirds occurred in underground operations and all were related to the work environment or mobile mechanical plant.
- The Coal, Metalliferous & Extractives SBIFR of 0.76 was 4.11% above the five year average of 0.73
- The Coal sector SBIFR of 0.7 was 5.41% below the five year average of 0.74
- The Metalliferous & Extractives sector SBIFR of 0.91 was 31.88% above the five year average of 0.69

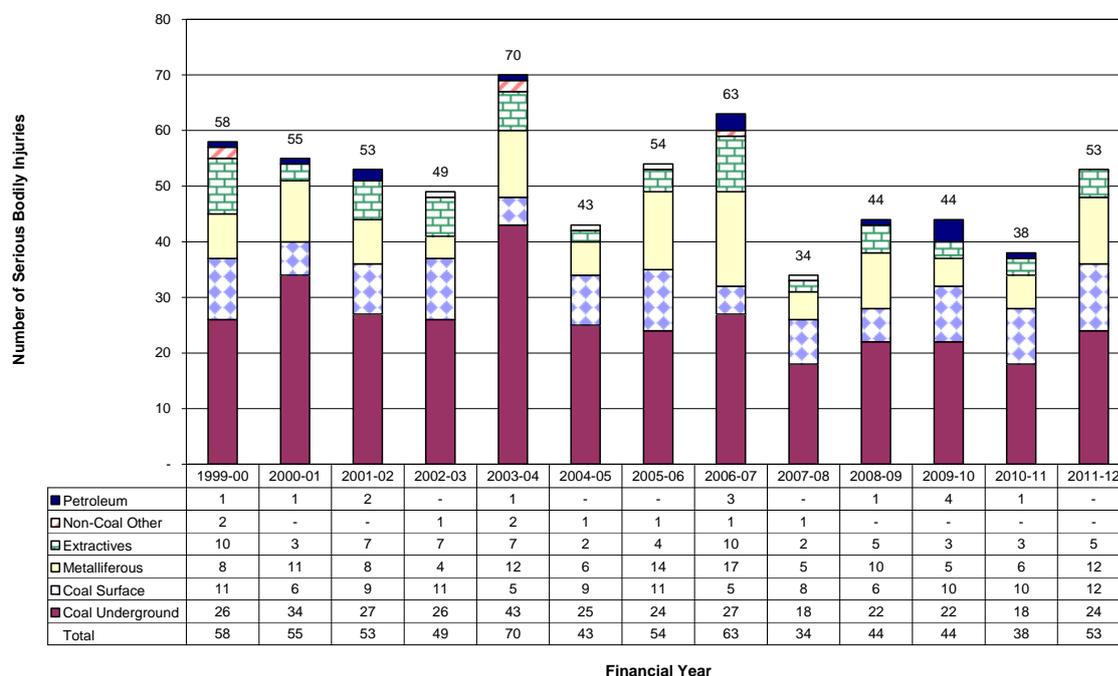
From 2010-11 to 2011-12:

- Overall, Coal, Metalliferous and Extractives SBIs rose 43.24% from 37 to 53
- Coal sector SBIs rose 25.57% from 28 to 36
- Metalliferous sector SBIs doubled from 6 to 12
- Extractives sector SBIs rose two thirds from 3 to 5
- Overall, Metalliferous & Extractives sector SBIs almost doubled from 9 to 17
- There were zero Petroleum (Onshore) SBIs

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

5.5.1 Serious Bodily Injuries by Sector

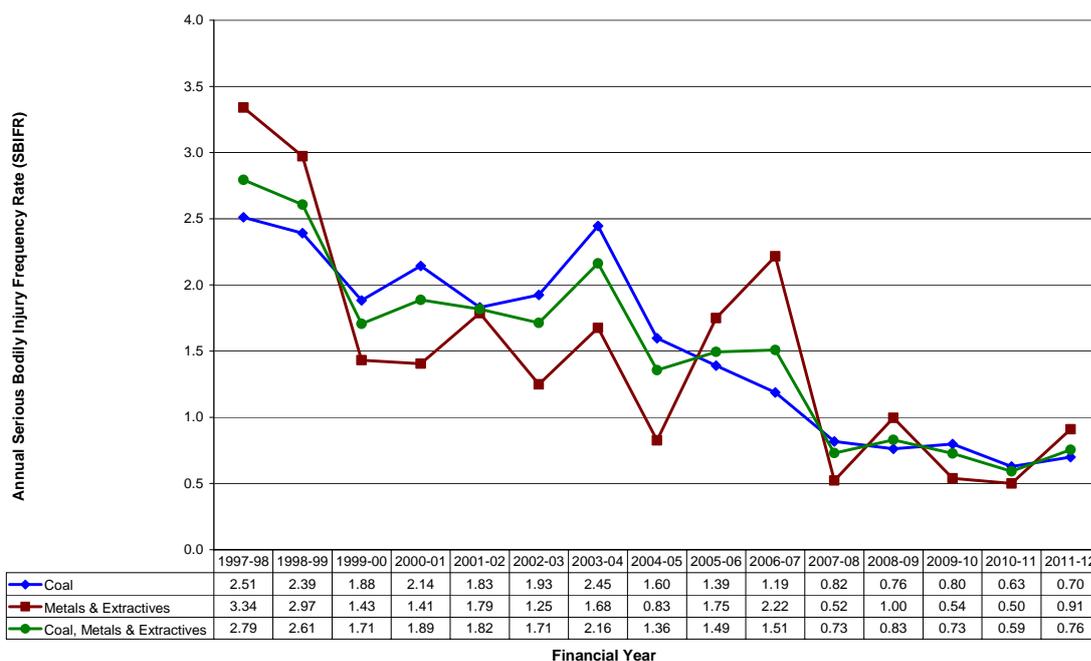
Figure 100
Serious Bodily Injuries by Sector 1999-00 to 2011-12



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

5.5.2 Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2011-12

Figure 101
NSW Coal, Metalliferous & Extractives Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2011-12



Refer to Figure 3 for Five Year Average Serious Bodily Injury Frequency Rate 2001-02 to 2011-12

Figure 102

NSW Coal Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2011-12

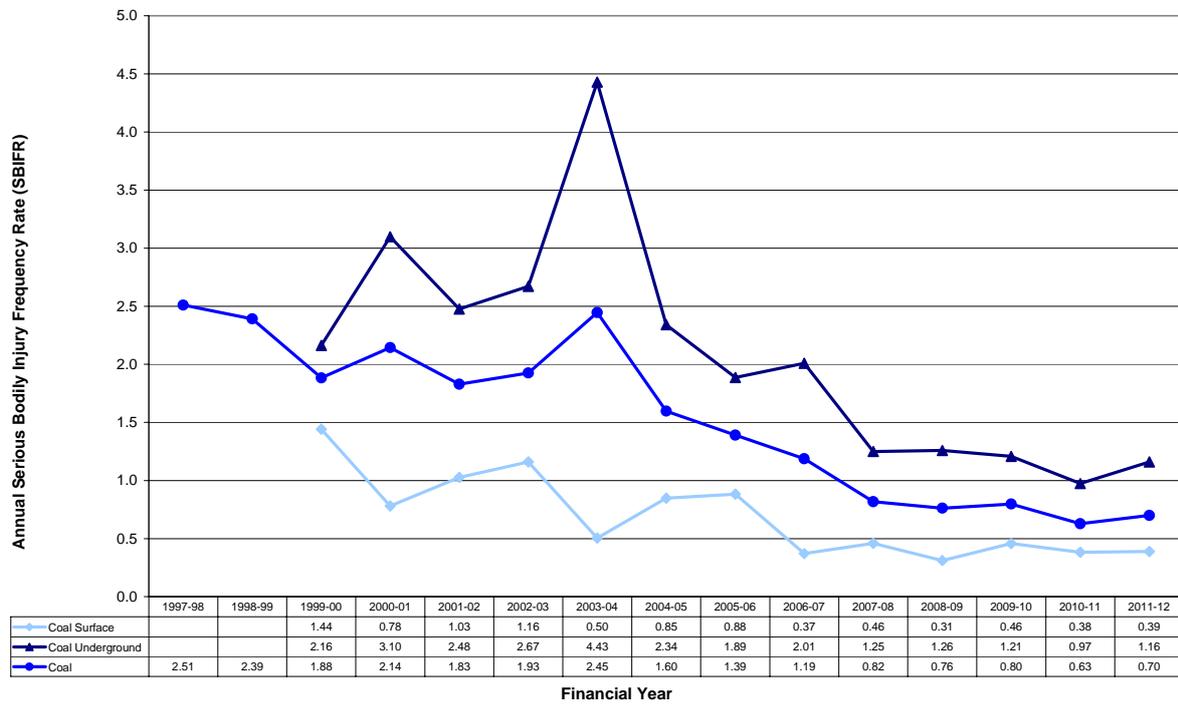
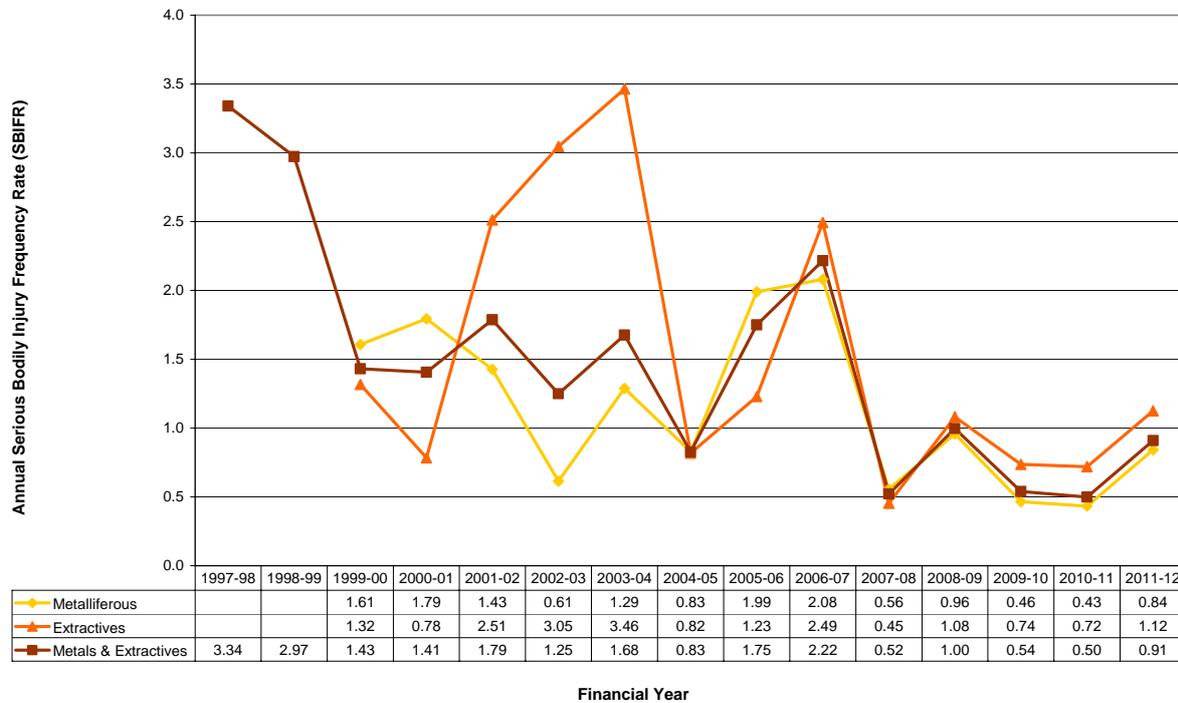


Figure 103

NSW Metalliferous & Extractives Annual Serious Bodily Injury Frequency Rate (SBIFR) 1997-98 to 2011-12



5.5.3 Serious Bodily Injuries by Event Subtype

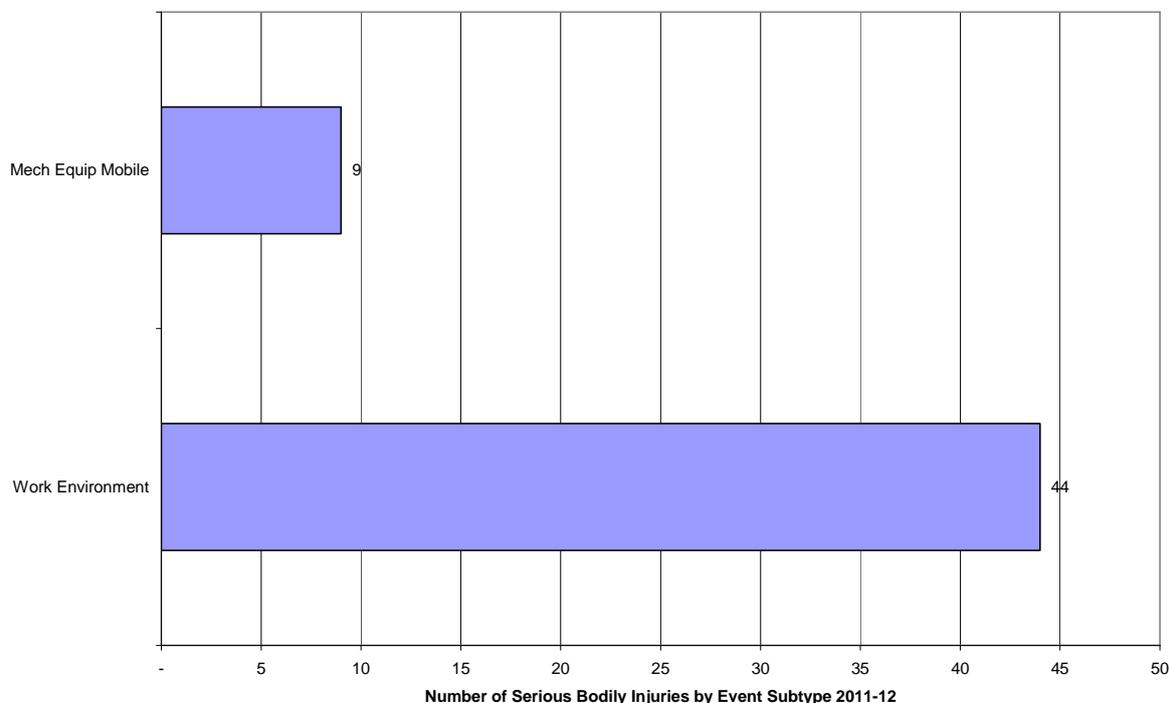
Figure 104

Serious Bodily Injuries by Event Subtype 1999-2000 to 2011-12

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	2011-12	Total
Work Environment	19	16	21	16	30	15	17	19	17	19	23	24	44	280
Mech Equip Mobile	19	18	16	21	23	22	24	31	15	21	13	11	9	243
Mech Equip Fixed	5	6	4	6	7	1	6	6	2	2	1	1	-	47
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	2	-	-	-	-	1	1	-	-	-	-	-	5
Structural Failure	1	-	-	-	1	-	-	2	-	-	-	-	-	4
Water	1	1	-	-	-	-	1	-	-	-	-	-	-	3
Explosives	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Total	57	54	51	49	69	43	54	60	34	43	40	37	53	644

Figure 105

Serious Bodily Injuries by Event Subtype 2011-12

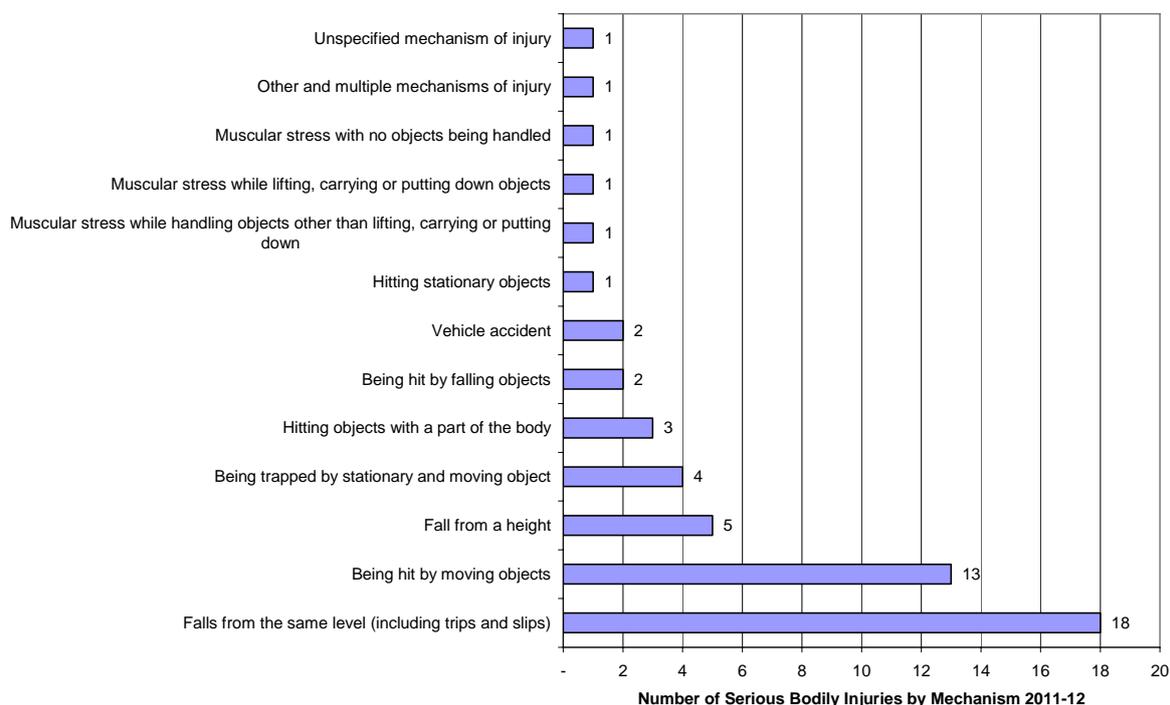


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Event Subtype.

5.5.4 Serious Bodily Injuries by Mechanism

Figure 106

Serious Bodily Injuries by Mechanism 2011-12

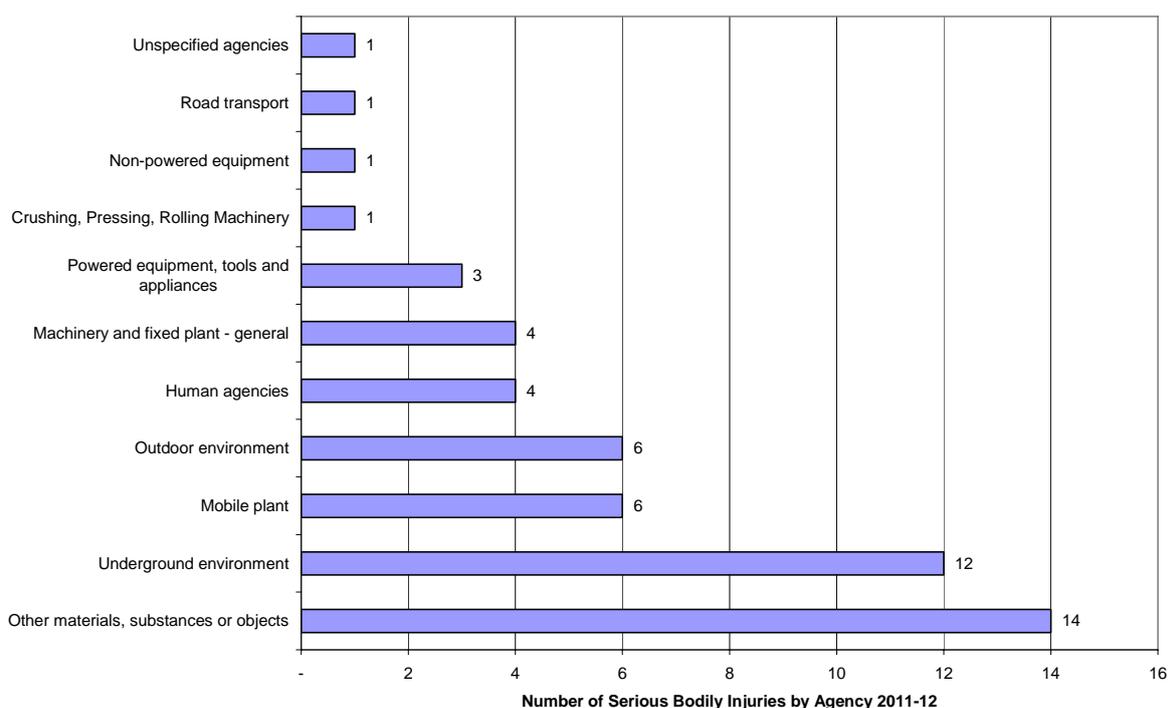


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Mechanism.

5.5.5 Serious Bodily Injuries by Agency

Figure 107

Serious Bodily Injuries by Agency 2011-12

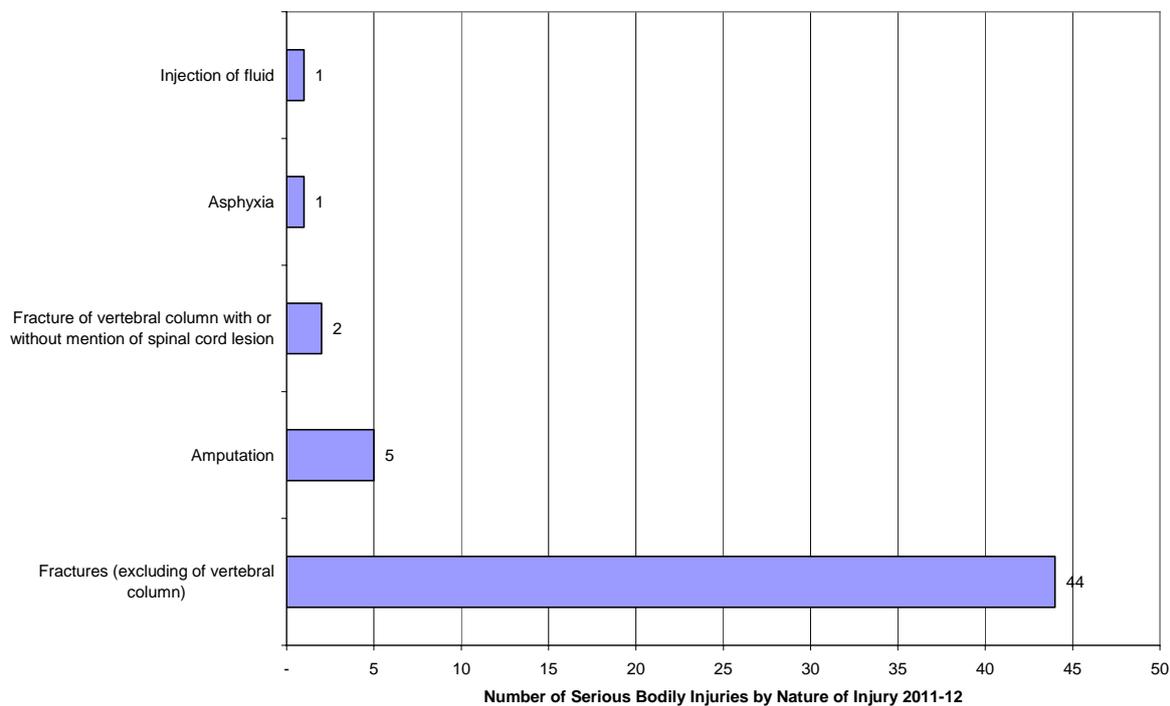


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Agency.

5.5.6 Serious Bodily Injuries by Nature of Injury

Figure 108

Serious Bodily Injuries by Nature of Injury 2011-12

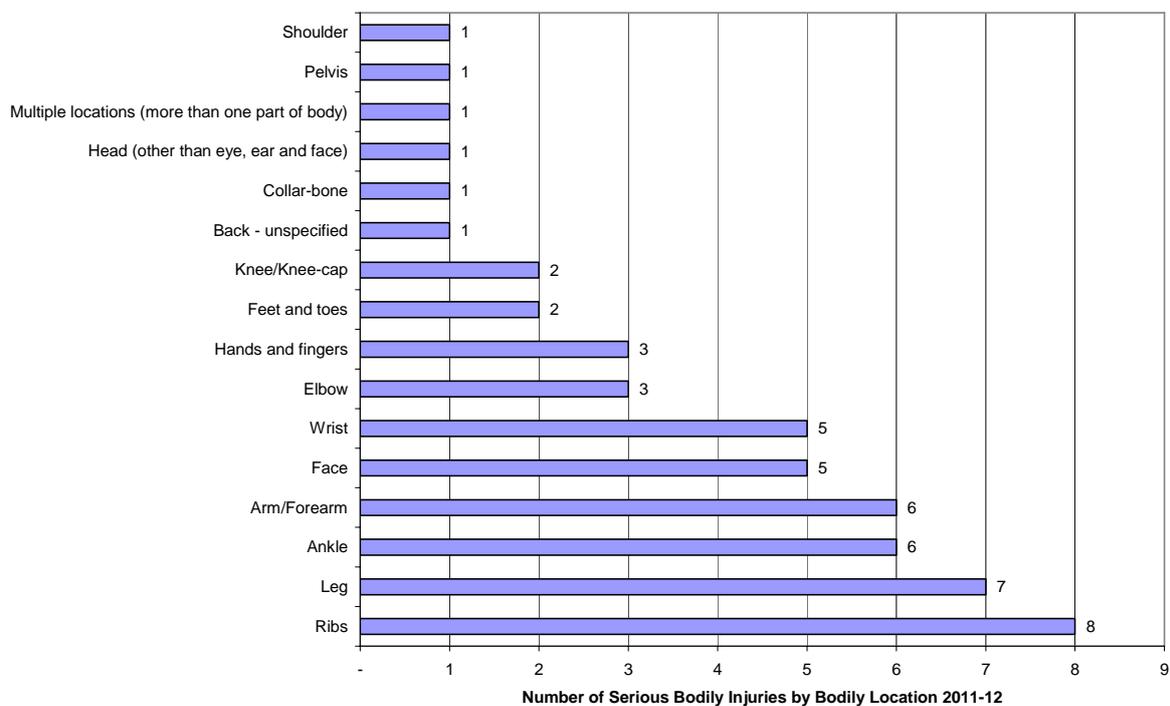


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Nature of Injury.

5.5.7 Serious Bodily Injuries by Bodily Location

Figure 109

Serious Bodily Injuries by Bodily Location 2011-12

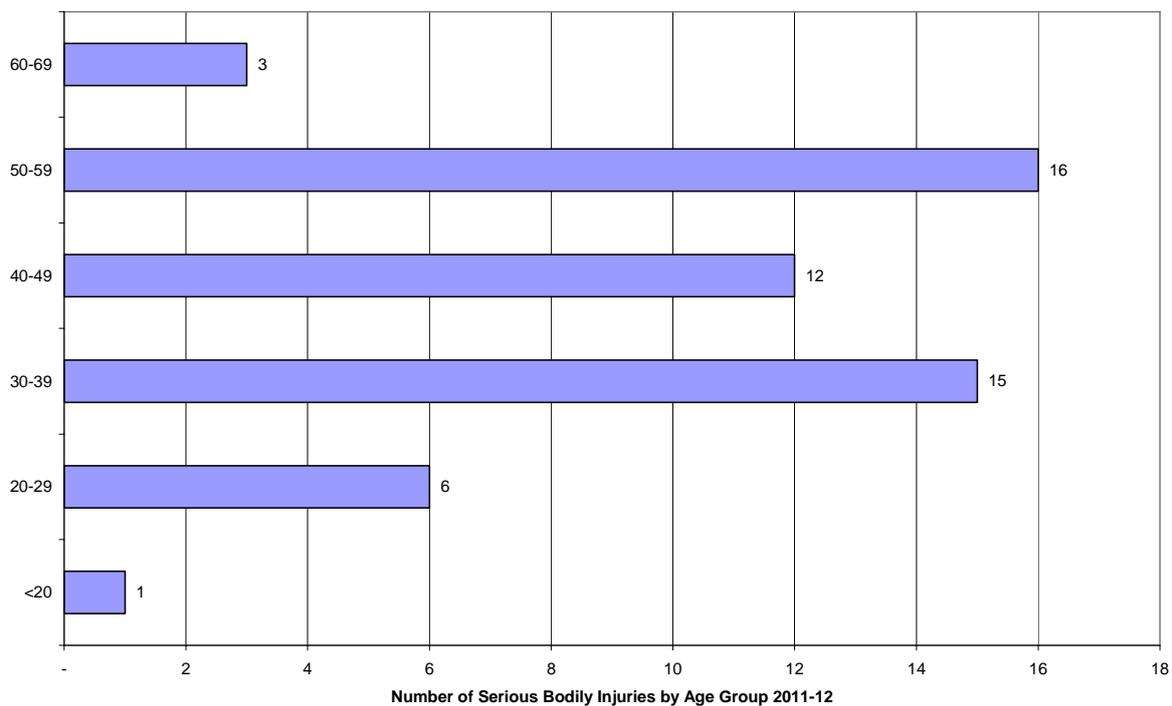


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Bodily Location.

5.5.8 Serious Bodily Injuries by Age Group

Figure 110

Serious Bodily Injuries by Age Group 2011-12

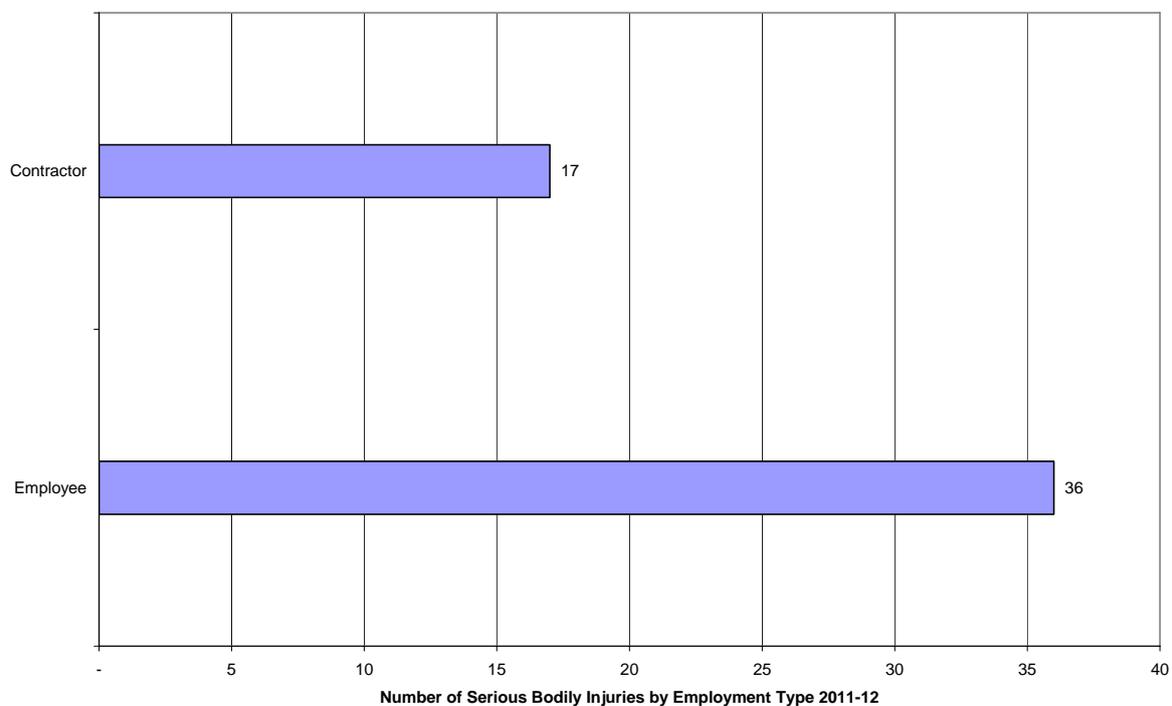


Refer to Appendix A.6 for further details of Serious Bodily Injuries by Age Group.

5.5.9 Serious Bodily Injuries by Employment Type

Figure 111

Serious Bodily Injuries by Employment Type 2011-12



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

5.6 Notifiable Injury Outcomes

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

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

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

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

In 2011-12:

- The most common causes of injuries with notifiable outcomes were muscular stressing, falls (including slips and trips) or being hit by moving or falling objects. The most common natures of injury were sprains and strains. Hand and finger injuries featured prominently, 79.2% occurred in underground operations and the majority were related to either the work environment or mobile mechanical equipment.

From 2010-11 to 2011-12:

- 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 4.4% from 407 to 425 and the number of injuries that resulted in an outcome of hospital inpatient admission increased by 28.2% from 78 to 100.
- 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 21.1% from 19 to 23 while the number of injuries that resulted in an outcome of hospital inpatient admission remained constant at 28.

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

5.6.1 Notifiable Injury Outcomes by Injury Outcome

Figure 112

Notifiable Injury Outcomes by Injury Outcome mid 2006-07 to 2011-12

Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
>=7 days lost time/alternative duties	193	426	417	422	426	448	2,332
Hospital inpatient admission	34	75	101	122	106	128	566
Lost consciousness	3	5	4	6	-	1	19
Entrapment	-	-	3	1	1	1	6
Fatality	-	-	3	-	1	-	4
Total	230	506	528	551	534	578	2,927

Figure 113

Notifiable Injury Outcomes by Injury Outcome mid 2006-07 to 2011-12

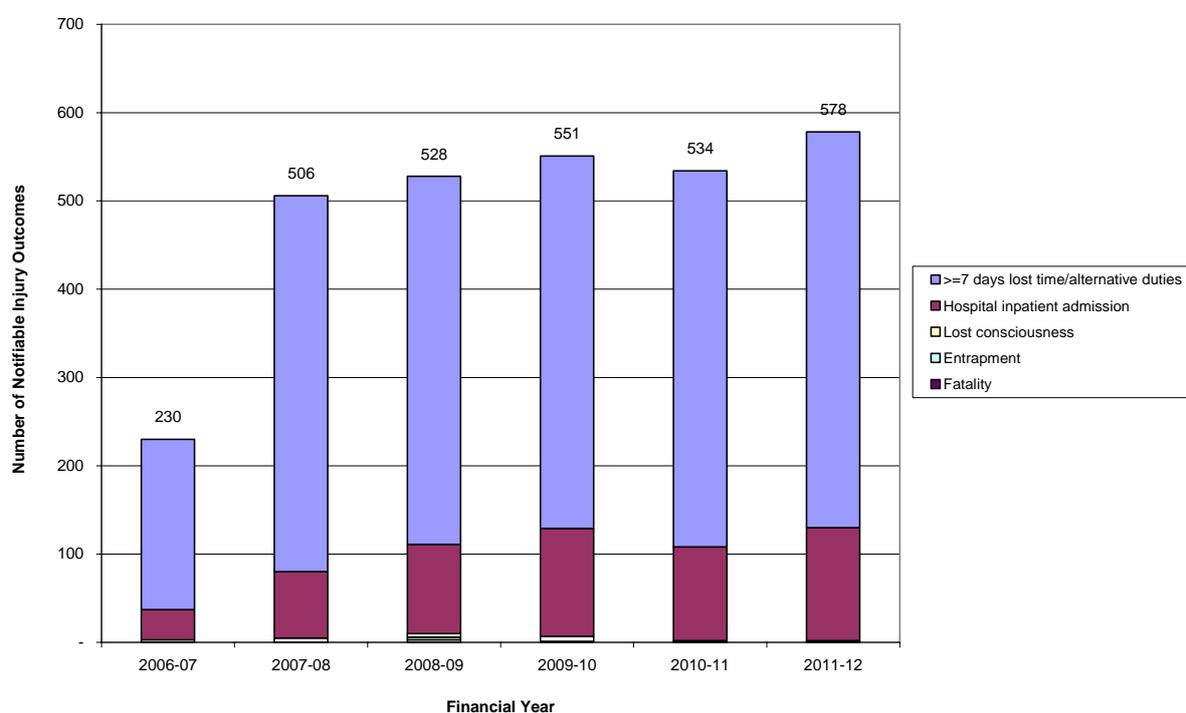
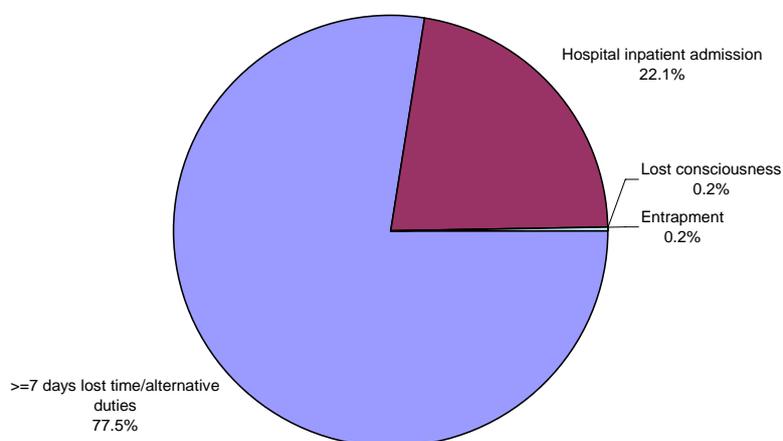


Figure 114

Notifiable Injury Outcomes 2011-12

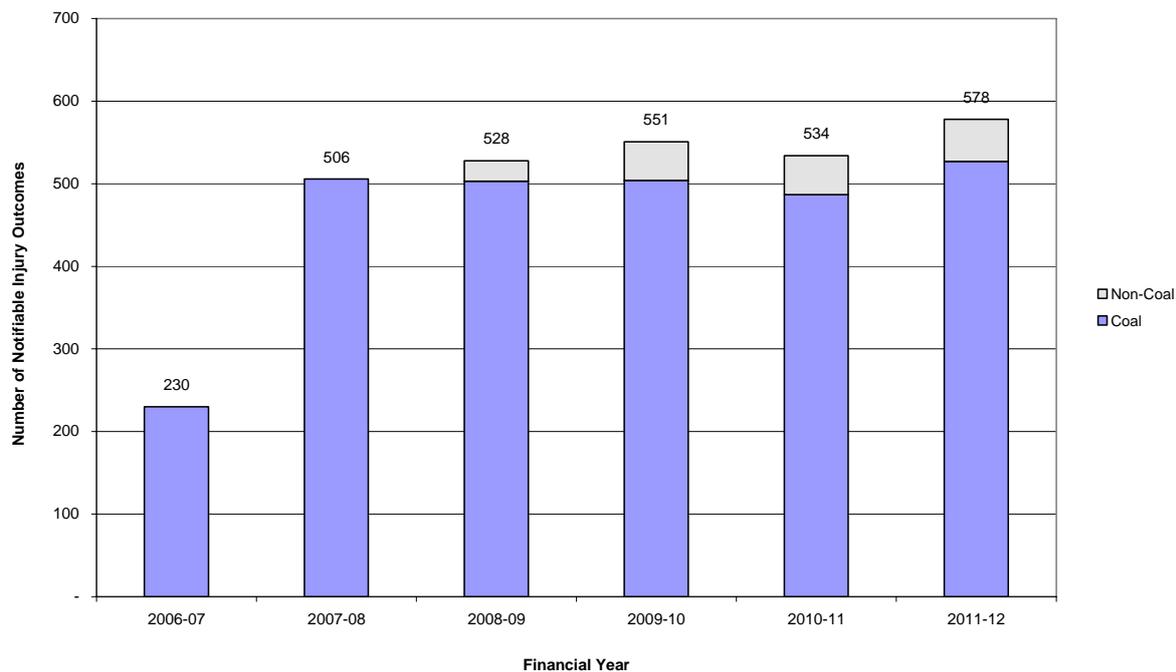


Refer to Appendix A.7 for further details of Notifiable Injury Outcomes.

5.6.2 Notifiable Injury Outcomes by Sector

Figure 115

Notifiable Injury Outcomes by Sector mid 2006-07 to 2011-12

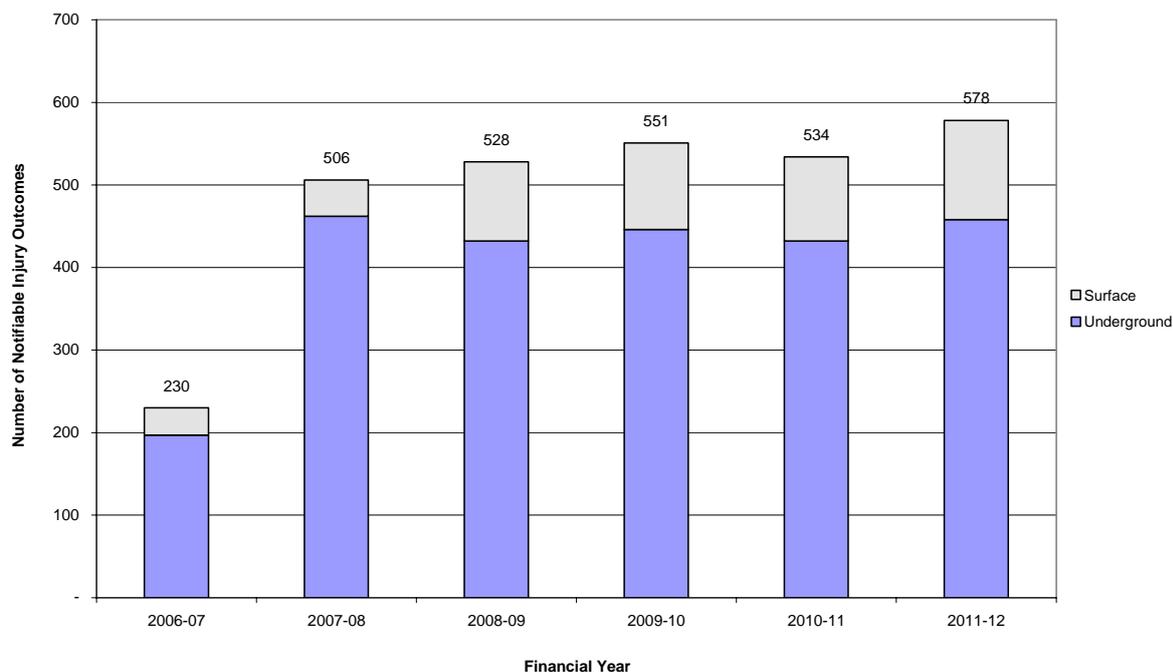


Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Sector

5.6.3 Notifiable Injury Outcomes by Operation Type

Figure 116

Notifiable Injury Outcomes by Surface/Underground Operation mid 2006-07 to 2011-12



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

5.6.4 Notifiable Injury Outcomes by Event Subtype

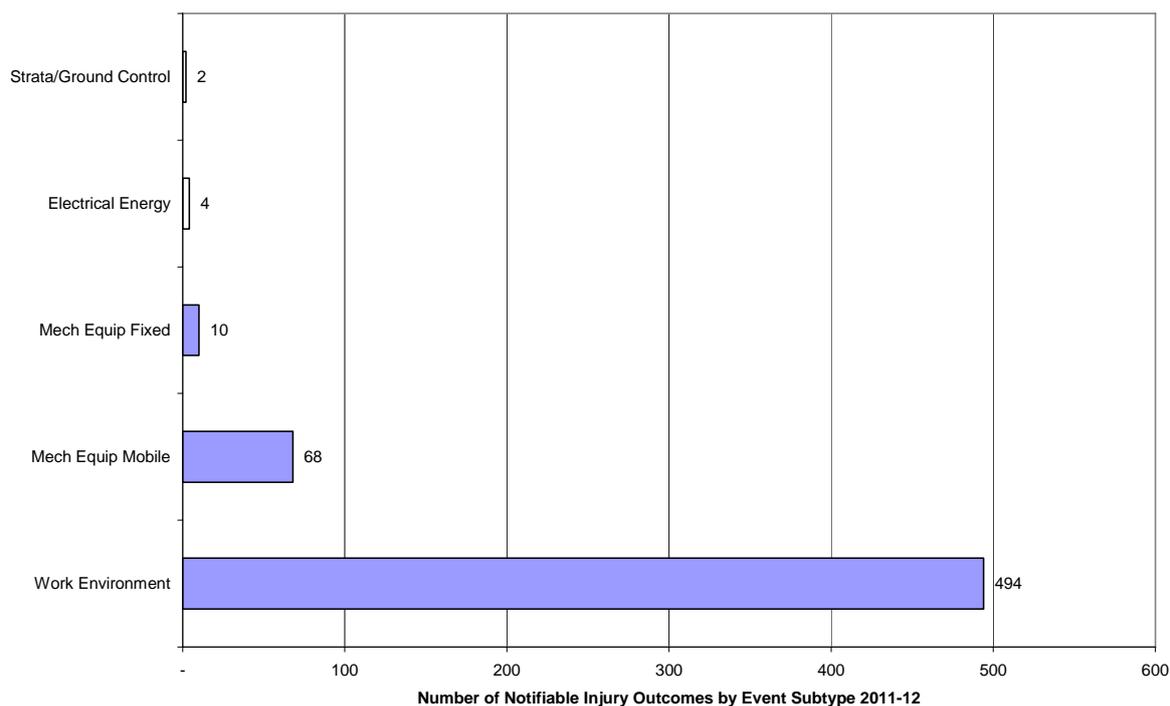
Figure 117

Notifiable Injury Outcomes by Event Subtype mid 2006-07 to 2011-12

Event Subtype	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Work Environment	129	312	325	367	406	494	2,033
Mech Equip Mobile	87	178	174	153	97	68	757
Mech Equip Fixed	6	8	17	14	15	10	70
Strata/Ground Control	3	2	6	8	5	2	26
Electrical Energy	1	2	5	5	3	4	20
Hazardous Materials	3	2	-	2	1	-	8
Explosives	-	-	-	2	5	-	7
Gas	-	2	-	-	-	-	2
Structural Failure	1	-	1	-	-	-	2
Self Heating	-	-	-	-	1	-	1
Water	-	-	-	-	1	-	1
Total	230	506	528	551	534	578	2,927

Figure 118

Notifiable Injury Outcomes by Event Subtype 2011-12



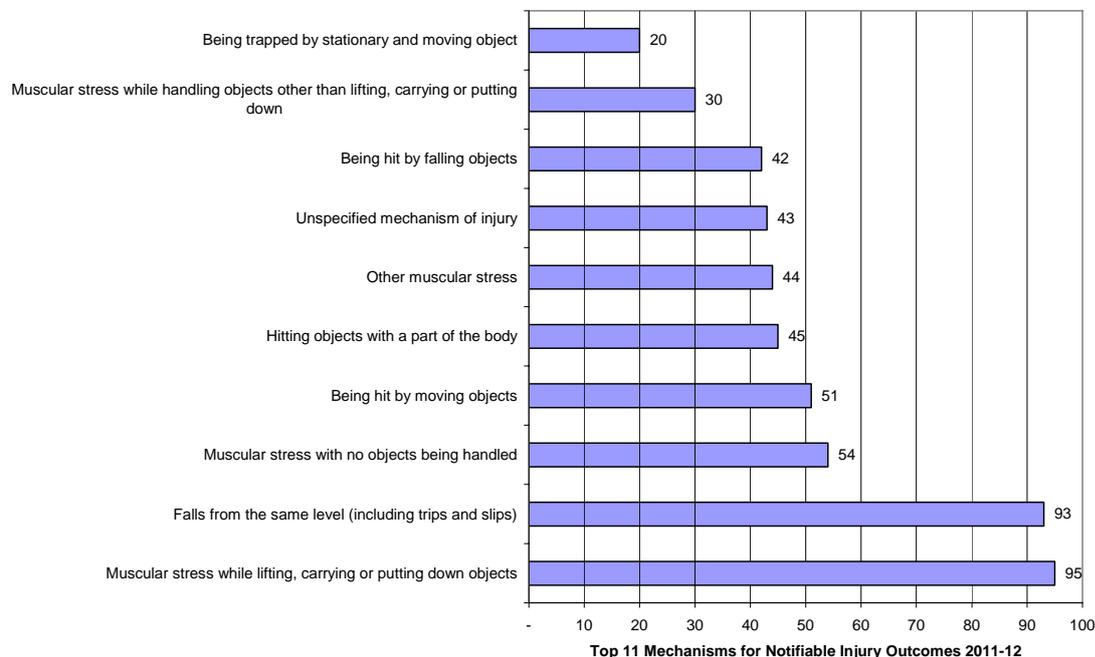
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Event Subtype.

5.6.5 Notifiable Injury Outcomes by Mechanism

Figure 119

Top 10 Mechanisms for Notifiable Injury Outcomes 2011-12

The top 10 mechanisms represent 517 (89%) of 578 notifiable injury outcomes.



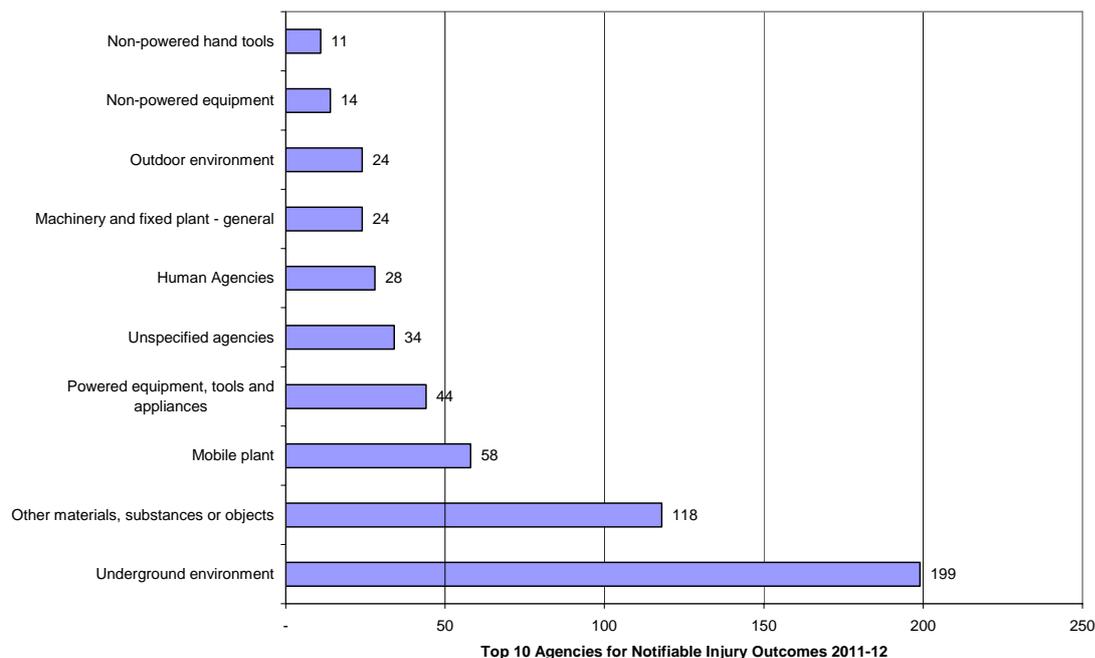
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Mechanism.

5.6.6 Notifiable Injury Outcomes by Agency

Figure 120

Top 10 Agencies for Notifiable Injury Outcomes 2011-12

The top 10 agencies represent 554 (96%) of 578 notifiable injury outcomes.



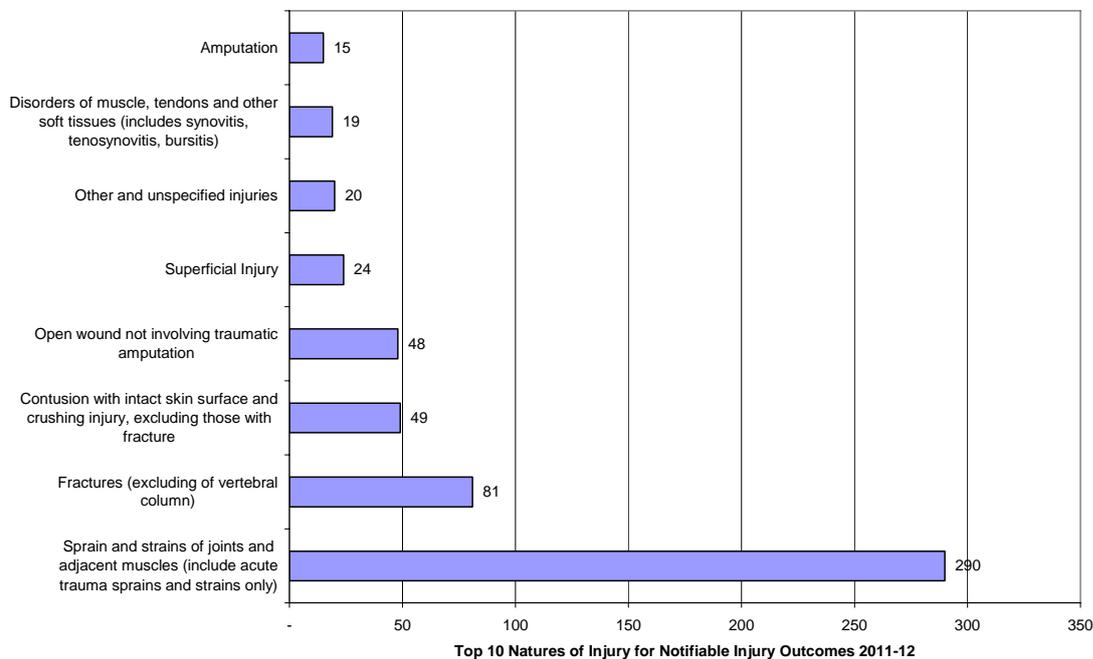
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Agency.

5.6.7 Notifiable Injury Outcomes by Nature of Injury

Figure 121

Top 8 Natures of Injury for Notifiable Injury Outcomes 2011-12

The top 8 natures of injury represent 546 (94%) of 578 notifiable injury outcomes.



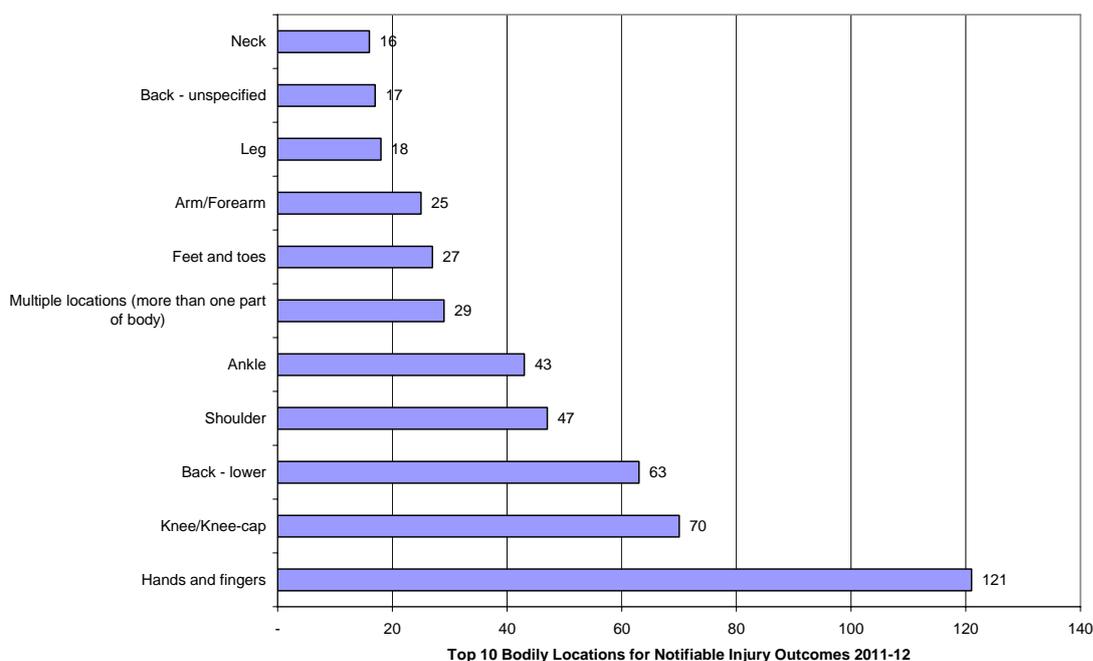
Refer to Appendix A.7 for further details of Notifiable Injury Outcomes by Nature of Injury.

5.6.8 Notifiable Injury Outcomes by Bodily Location

Figure 122

Top 11 Bodily Locations for Notifiable Injury Outcomes 2011-12

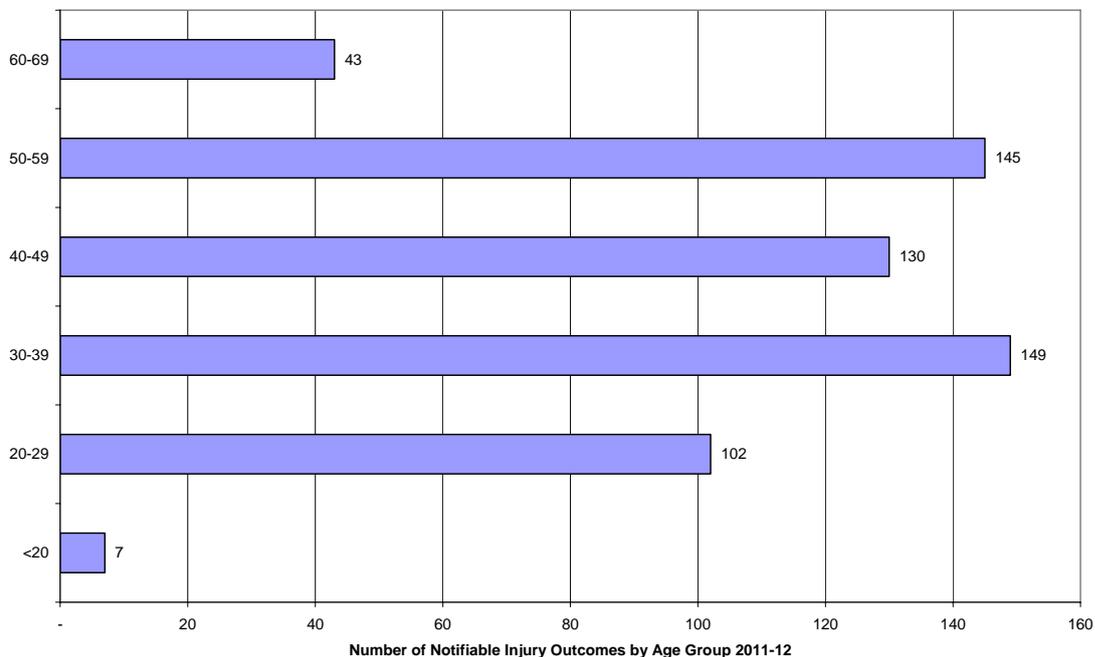
The top 11 bodily locations represent 476 (82%) of 578 notifiable injury outcomes



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

5.6.9 Notifiable Injury Outcomes by Age Group

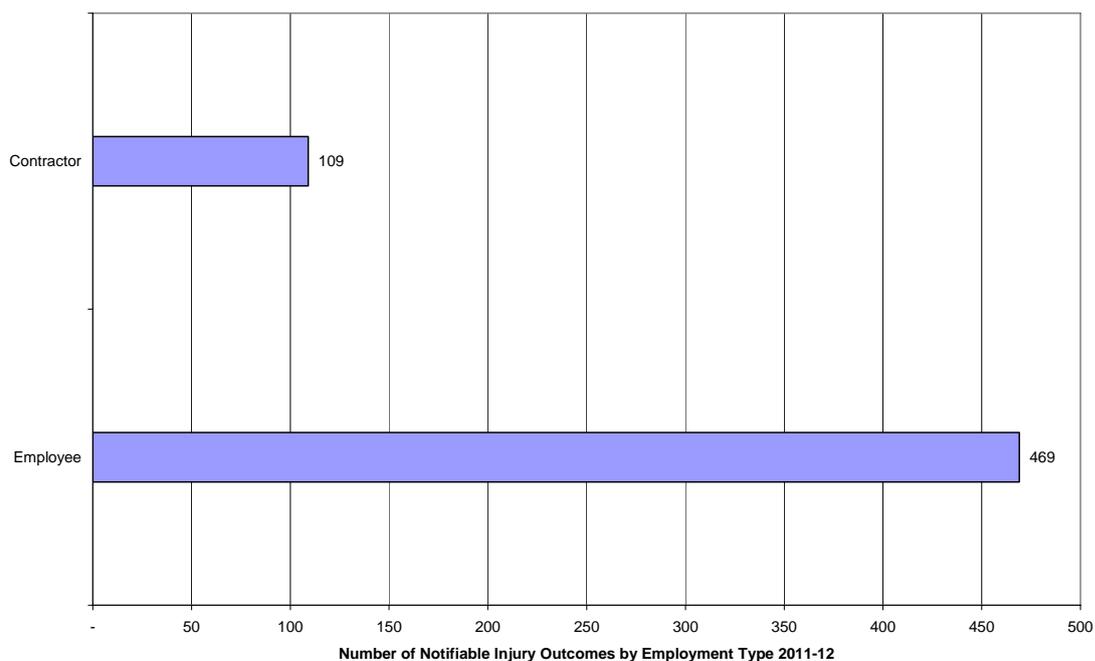
Figure 123
Notifiable Injury Outcomes by Age Group 2011-12



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

5.6.10 Notifiable Injury Outcomes by Employment Type

Figure 124
Notifiable Injury Outcomes by Employment Type 2011-12



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

6 ASSESSMENTS

6.1 All Assessments

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

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

6.1.1 All Assessments by Sector

Figure 125

All Assessments by Sector 1999-00 to 2011-12

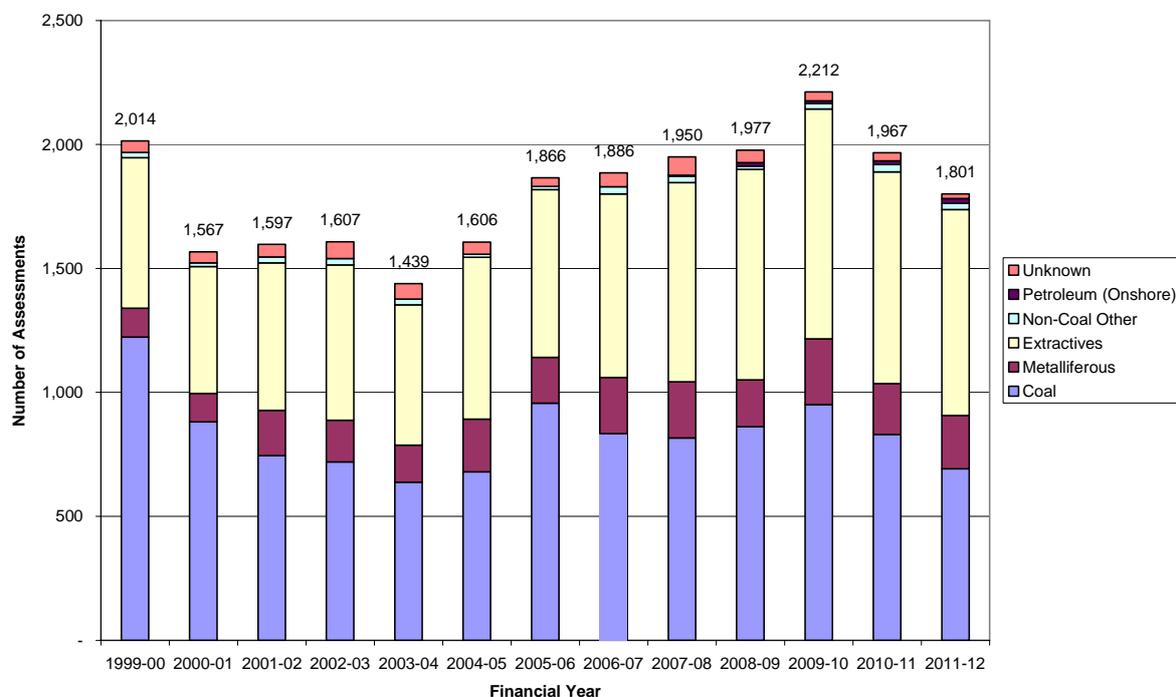
NB "Unknown" refers to assessments conducted for non-mine organisations

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	2011-12	Total
Coal	1,223	881	745	720	638	679	956	833	816	862	951	830	692	10,826
Metalliferous	117	115	183	167	149	213	185	227	227	189	265	206	215	2,458
Extractives	607	512	594	627	566	653	677	741	803	849	927	854	830	9,240
Non-Coal Other	21	14	24	26	23	12	13	28	26	13	23	29	26	278
Petroleum (Onshore)	-	-	-	-	-	-	-	-	4	14	10	15	19	62
Unknown	46	45	51	67	63	49	35	57	74	50	36	33	19	625
Total	2,014	1,567	1,597	1,607	1,439	1,606	1,866	1,886	1,950	1,977	2,212	1,967	1,801	23,489

Figure 126

All Assessments by Sector 1999-00 to 2011-12

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



6.1.2 All Assessments by Operation Type

Figure 127

All Assessments by Operation Type 1999-00 to 2011-12

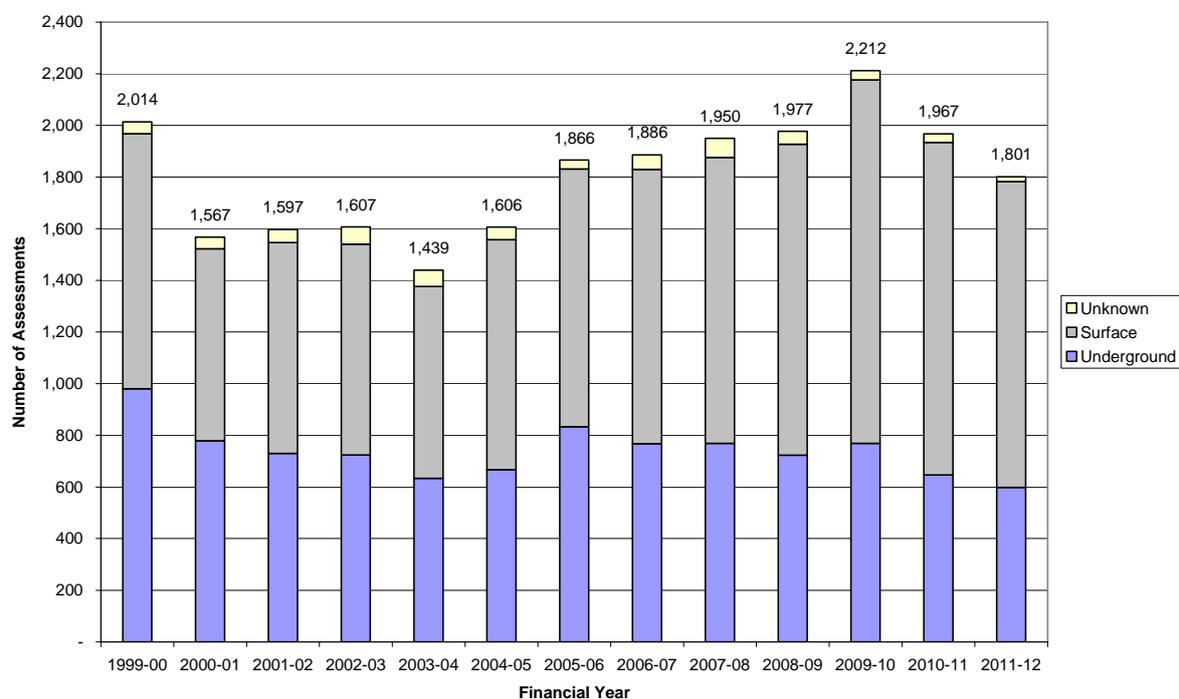
NB "Unknown" refers to assessments conducted for non-mine organisations

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	2011-12	Total
Underground	980	779	730	724	633	667	833	767	769	723	769	646	598	9,618
Surface	988	743	816	816	743	890	998	1,062	1,107	1,204	1,407	1,288	1,184	13,246
Unknown	46	45	51	67	63	49	35	57	74	50	36	33	19	625
Total	2,014	1,567	1,597	1,607	1,439	1,606	1,866	1,886	1,950	1,977	2,212	1,967	1,801	23,489

Figure 128

All Assessments by Operation Type 1999-00 to 2011-12

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



6.1.3 All Assessments by Event Subtype

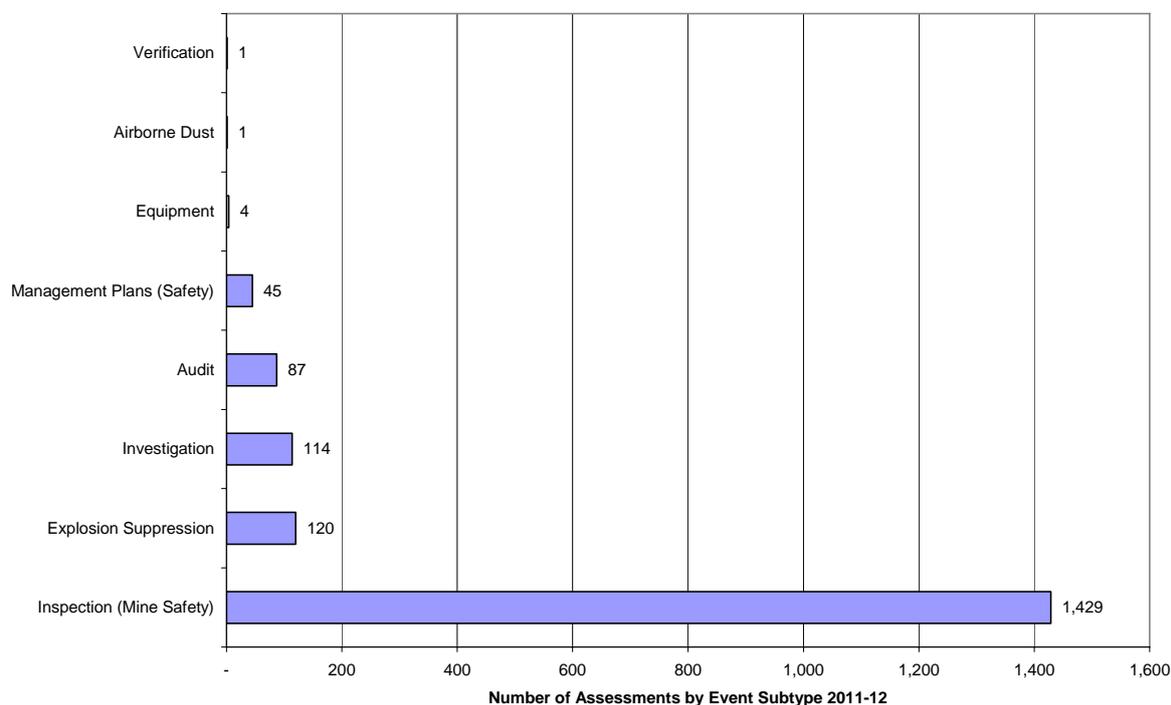
Figure 129

All Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	1,106	1,062	1,128	1,077	927	1,177	1,272	1,270	1,371	1,387	1,466	1,427	1,429	16,099
Audit	80	146	199	232	202	101	288	212	266	304	393	190	87	2,700
Explosion Suppression	206	224	162	178	143	105	90	91	116	103	159	156	120	1,853
Management Plans (Safety)	431	53	29	59	54	86	119	148	58	71	115	118	45	1,386
Investigation	38	47	52	37	52	44	58	109	105	74	55	53	114	838
Verification	148	33	26	18	10	9	14	16	12	9	3	5	1	304
Equipment	3	-	-	-	-	44	16	31	9	18	17	18	4	160
Airborne Dust	1	2	1	6	50	34	1	2	8	8	1	-	1	115
Seminar/Workshop	-	-	-	-	1	-	5	2	5	3	-	-	-	16
Closure	1	-	-	-	-	2	2	4	-	-	2	-	-	11
Resource Recovery (Safety)	-	-	-	-	-	4	1	1	-	-	1	-	-	7
Total	2,014	1,567	1,597	1,607	1,439	1,606	1,866	1,886	1,950	1,977	2,212	1,967	1,801	23,489

Figure 130

All Assessments by Event Subtype 2011-12



6.2 Coal Assessments

6.2.1 Coal Assessments by Operation Type

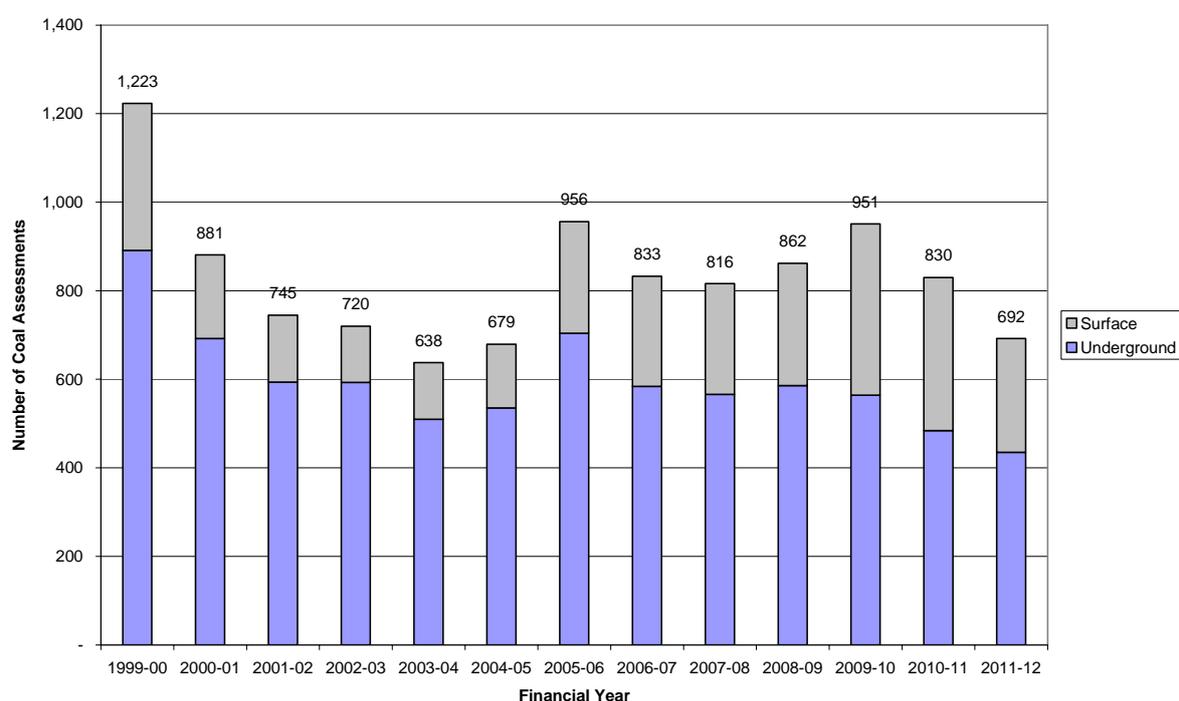
Figure 131

Coal Assessments by Operation Type 1999-00 to 2011-12

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	2011-12	Total
Underground	891	692	594	593	510	535	704	584	566	586	564	484	435	7,738
Surface	332	189	151	127	128	144	252	249	250	276	387	346	257	3,088
Total	1,223	881	745	720	638	679	956	833	816	862	951	830	692	10,826

Figure 132

Coal Assessments 1999-00 to 2011-12



6.2.2 Coal Assessments by Event Subtype

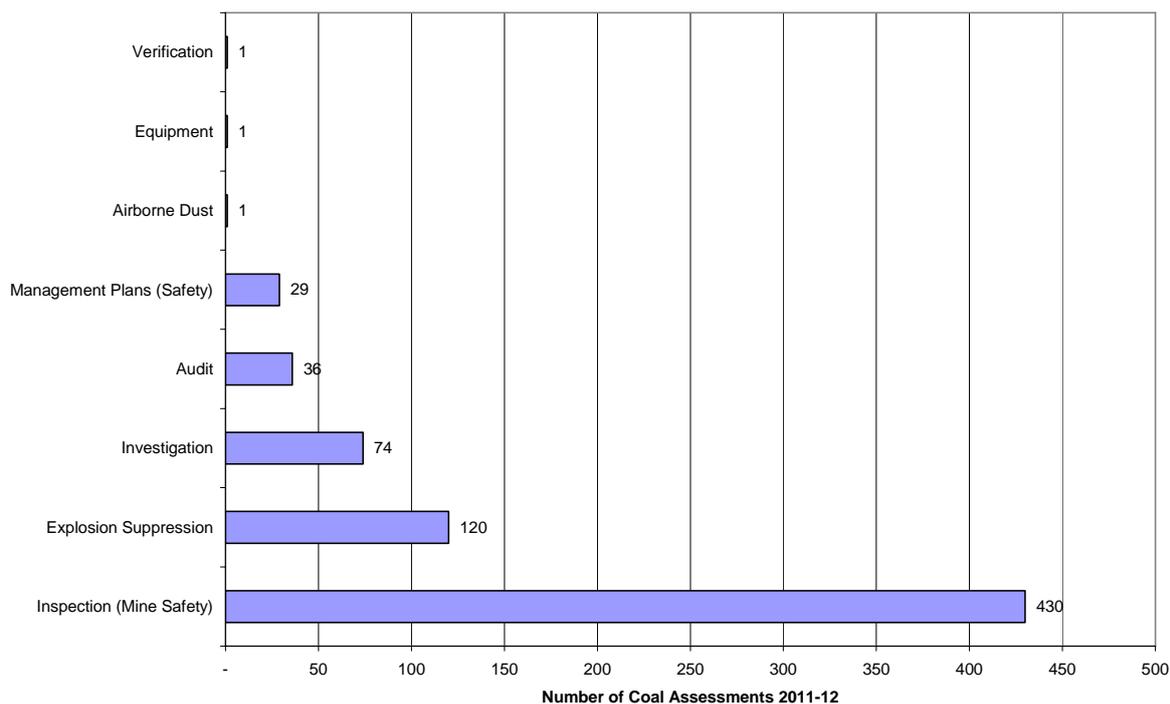
Figure 133

Coal Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	520	473	404	310	282	410	517	400	462	464	519	501	430	5,692
Explosion Suppression	204	223	161	177	143	105	90	91	116	103	159	156	120	1,848
Audit	66	118	156	183	107	43	224	143	122	187	205	71	36	1,661
Management Plans (Safety)	419	51	12	39	41	54	96	132	43	54	57	79	29	1,106
Investigation	4	14	9	4	18	7	17	50	64	40	8	16	74	325
Airborne Dust	1	2	1	6	47	34	1	2	4	3	1	-	1	103
Equipment	-	-	-	-	-	24	9	14	5	11	1	6	1	71
Verification	9	-	2	1	-	-	1	-	-	-	-	1	1	15
Resource Recovery (Safety)	-	-	-	-	-	1	1	-	-	-	1	-	-	3
Closure	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Seminar/Workshop	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Total	1,223	881	745	720	638	679	956	833	816	862	951	830	692	10,826

Figure 134

Coal Assessments by Event Subtype 2011-12



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

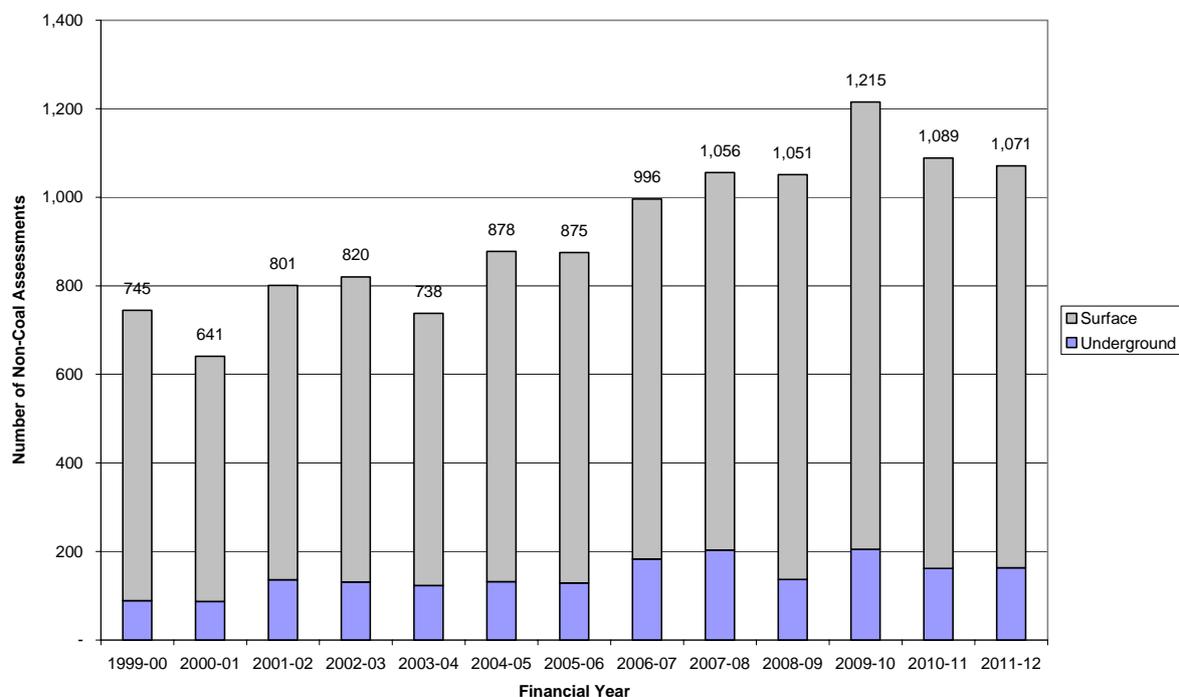
6.3 Non-Coal Assessments

6.3.1 Non-Coal Assessments by Operation Type

Figure 135
Non-Coal Assessments by Operation Type 1999-00 to 2011-12

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	2011-12	Total
Surface	Metalliferous	36	35	71	63	56	101	73	57	60	63	81	65	69	830
	Extractives	606	511	589	622	558	644	668	729	787	842	917	842	824	9,139
	Non-Coal Other	14	8	5	4	1	1	5	27	6	9	12	20	15	127
	Total	656	554	665	689	615	746	746	813	853	914	1,010	927	908	10,096
Underground	Metalliferous	81	80	112	104	93	112	112	170	167	126	184	141	146	1,628
	Extractives	1	1	5	5	8	9	9	12	16	7	10	12	6	101
	Non-Coal Other	7	6	19	22	22	11	8	1	20	4	11	9	11	151
	Total	89	87	136	131	123	132	129	183	203	137	205	162	163	1,880
Total	745	641	801	820	738	878	875	996	1,056	1,051	1,215	1,089	1,071	11,976	

Figure 136
Non-Coal Assessments 1999-00 to 2011-12



6.3.2 Non-Coal Metalliferous Assessments by Event Subtype

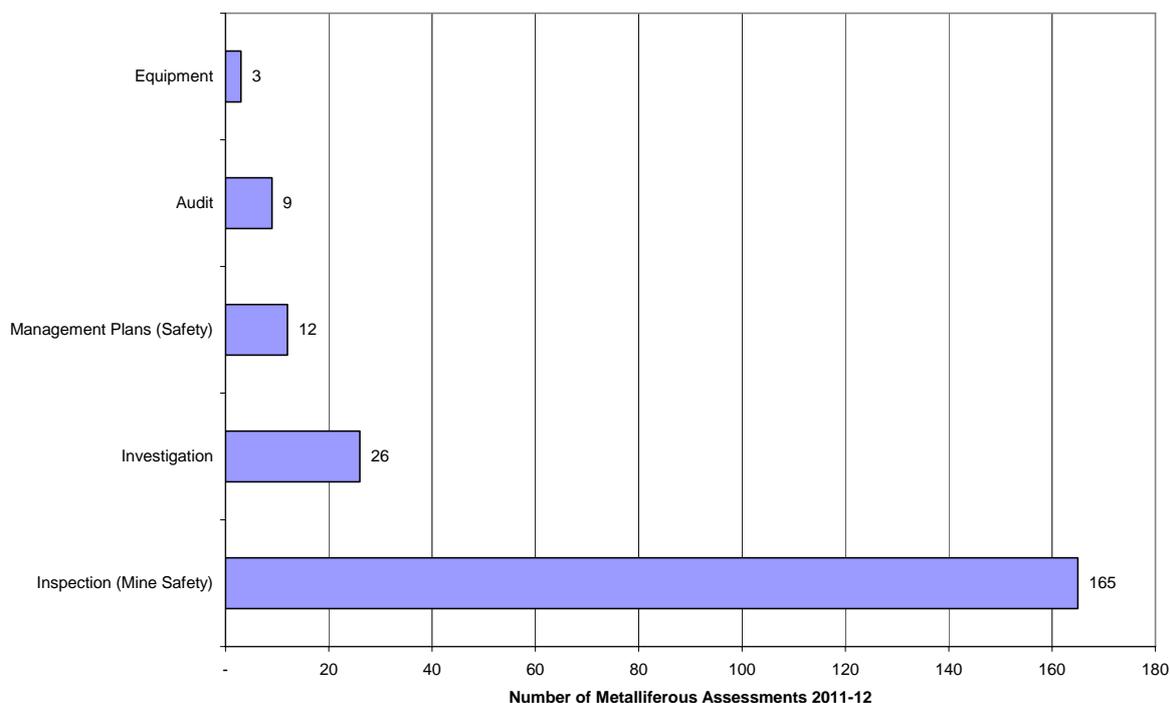
Figure 137

Non-Coal Metalliferous Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	85	89	128	125	113	164	134	148	150	143	174	133	165	1,751
Investigation	16	17	33	21	18	23	16	43	28	21	40	30	26	332
Audit	5	6	8	10	9	6	24	16	30	18	29	24	9	194
Verification	6	2	12	7	6	8	5	13	11	4	2	2	-	78
Management Plans (Safety)	4	1	2	4	3	7	5	3	8	3	10	8	12	70
Equipment	-	-	-	-	-	2	1	4	-	-	10	9	3	29
Resource Recovery (Safety)	-	-	-	-	-	3	-	-	-	-	-	-	-	3
Closure	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Total	117	115	183	167	149	213	185	227	227	189	265	206	215	2,458

Figure 138

Non-Coal Metalliferous Assessments by Event Subtype 2011-12



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

6.3.3 Non-Coal Extractives Assessments by Event Subtype

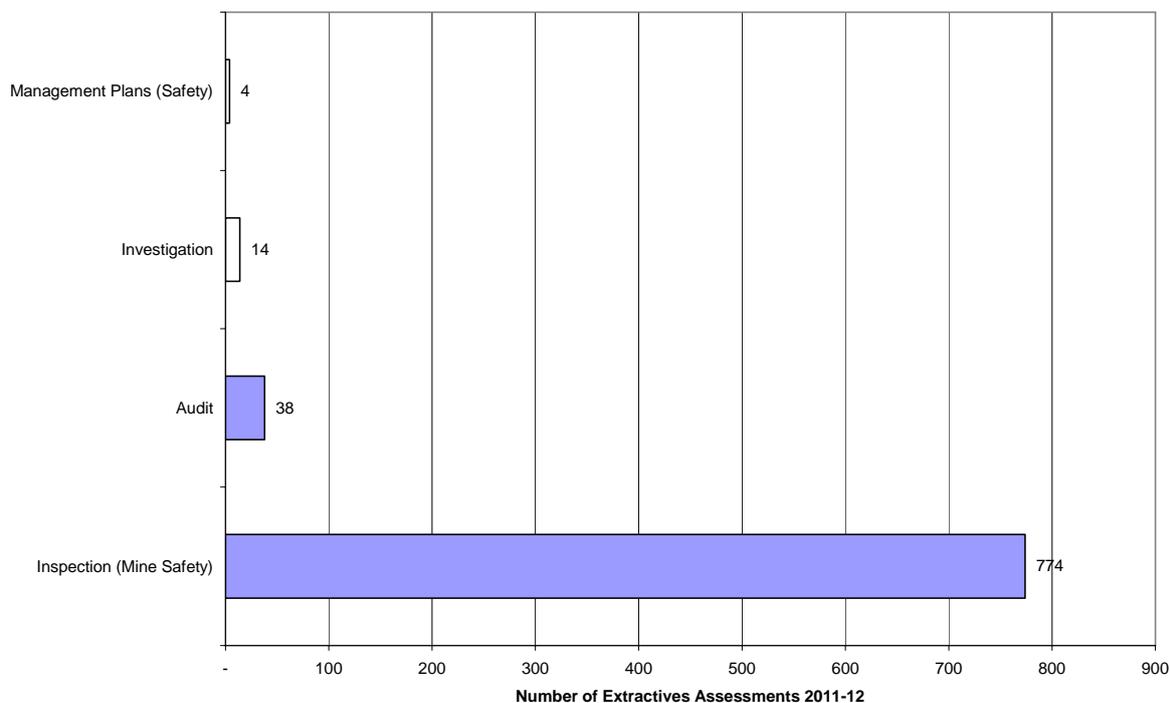
Figure 139

Non-Coal Extractives Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	457	464	549	583	482	562	584	664	716	728	720	728	774	8,011
Audit	2	7	14	8	57	49	34	46	63	86	149	86	38	639
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	4	179
Investigation	13	10	10	10	14	13	23	14	13	10	7	6	14	157
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
Total	607	512	594	627	566	653	677	741	803	849	927	854	830	9,240

Figure 140

Non-Coal Extractives Assessments by Event Subtype 2011-12



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

6.3.4 Non-Coal Other Assessments by Event Subtype

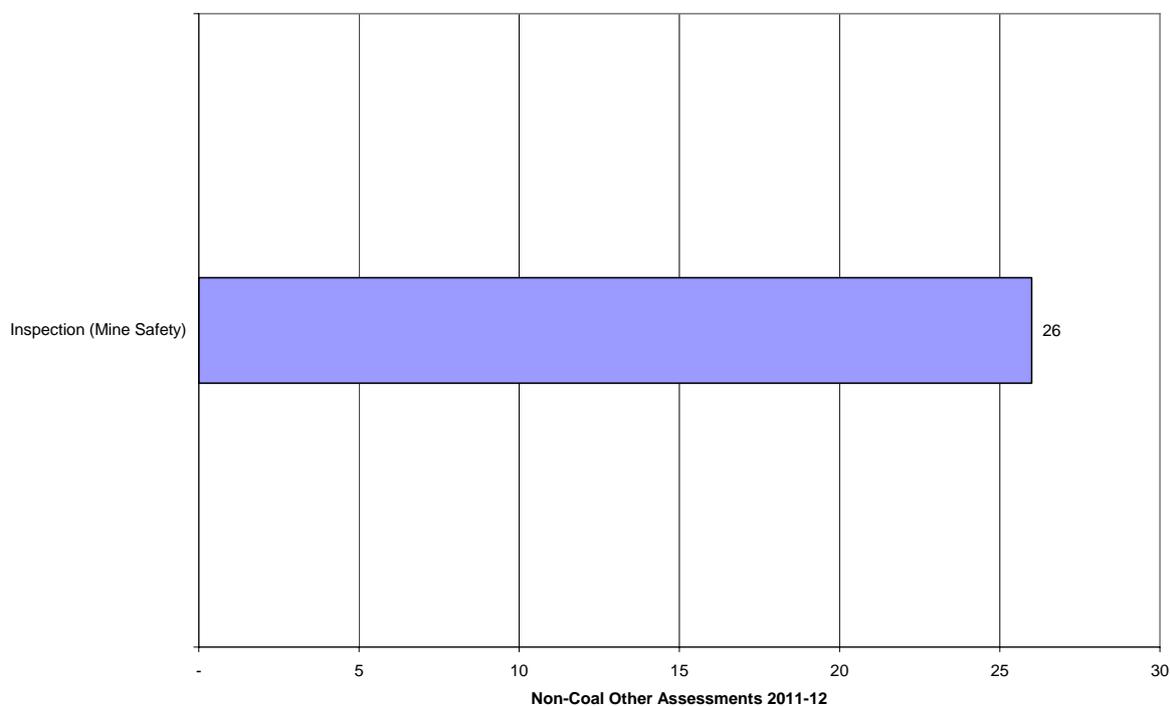
Figure 141

Non-Coal Other Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	18	9	20	12	20	10	13	27	24	12	21	28	26	240
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
Total	21	14	24	26	23	12	13	28	26	13	23	29	26	278

Figure 142

Non-Coal Other Assessments by Event Subtype 1999-00 to 2011-12



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

6.4 Petroleum (Onshore) Assessments

Petroleum assessments recorded in the COMET database appear below.

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

6.4.1 Petroleum (Onshore) Assessments by Event Subtype

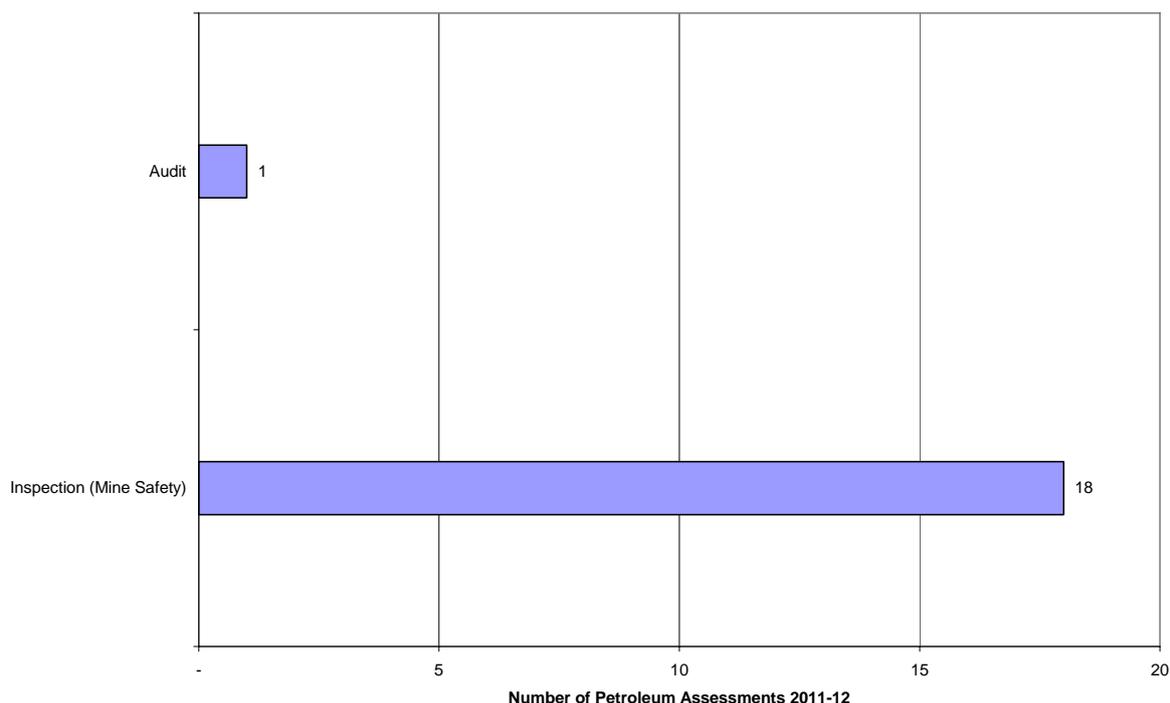
Figure 143

Petroleum (Onshore) Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	-	-	-	-	-	-	-	-	1	12	8	14	18	53
Audit	-	-	-	-	-	-	-	-	3	2	2	1	1	9
Total	-	-	-	-	-	-	-	-	4	14	10	15	19	62

Figure 144

Petroleum (Onshore) Assessments by Event Subtype 2011-12



7 ENFORCEMENT AND ADVICE NOTICES

7.1 All Enforcement and Advice Notices

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

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

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

7.1.1 All Enforcement and Advice Notices by Sector

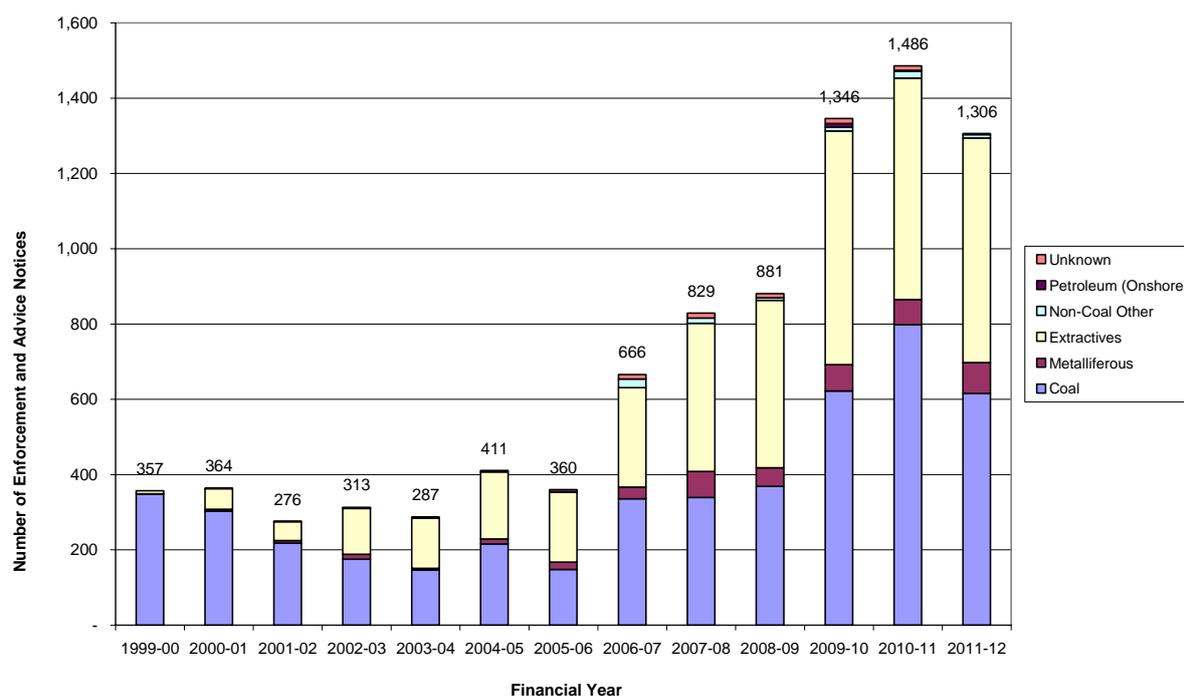
Figure 145

All Enforcement and Advice Notices by Sector 1999-00 to 2011-12
 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	2011-12	Total
Coal	348	303	218	175	147	216	148	336	339	369	622	798	616	4,635
Metalliferous	1	5	7	13	4	13	20	31	69	49	70	67	82	431
Extractives	8	55	50	122	134	178	185	264	394	445	621	588	596	3,640
Non-Coal Other	-	-	1	1	1	-	2	23	14	7	10	19	9	87
Petroleum (Onshore)	-	-	-	-	-	-	-	-	-	-	10	2	-	12
Unknown	-	1	-	2	1	4	5	12	13	11	13	12	3	77
Total	357	364	276	313	287	411	360	666	829	881	1,346	1,486	1,306	8,882

Figure 146

All Enforcement and Advice Notices by Sector 1999-00 to 2011-12
 NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09



7.1.2 All Enforcement and Advice Notices by Operation Type

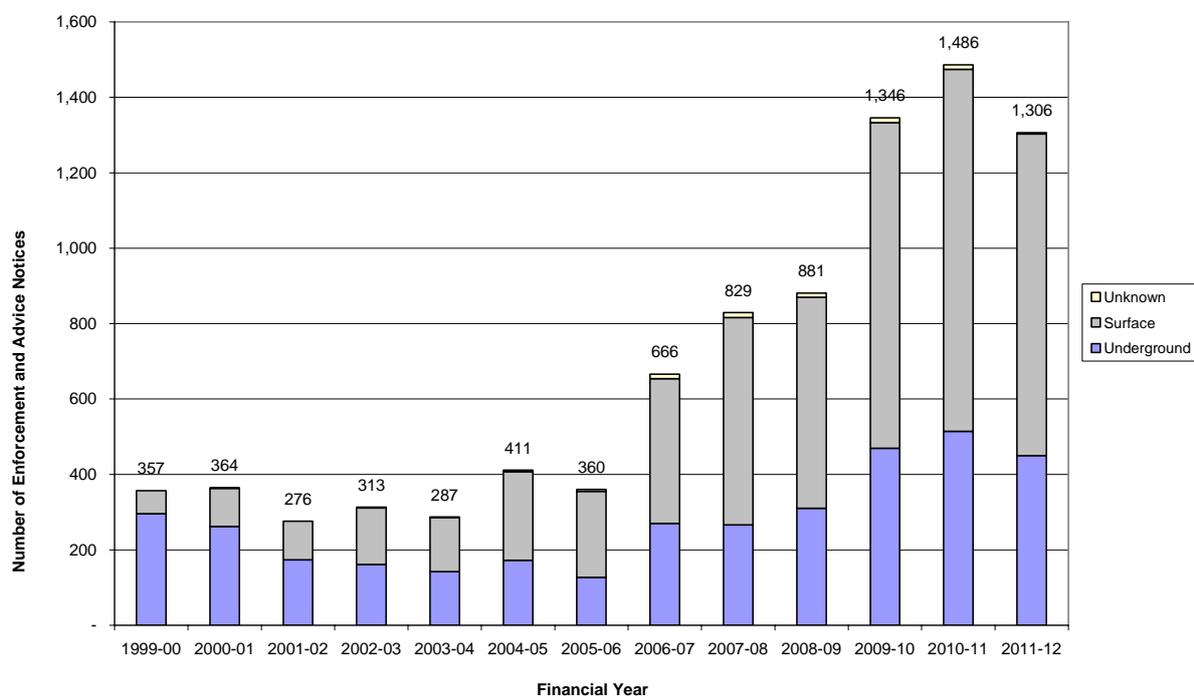
Figure 147

All Enforcement and Advice Notices by Operation Type 1999-00 to 2011-12
 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	2011-12	Total
Underground	296	262	173	161	142	172	127	270	266	310	469	514	450	3,612
Surface	61	101	103	150	144	235	228	384	550	560	864	960	853	5,193
Unknown	-	1	-	2	1	4	5	12	13	11	13	12	3	77
Total	357	364	276	313	287	411	360	666	829	881	1,346	1,486	1,306	8,882

Figure 148

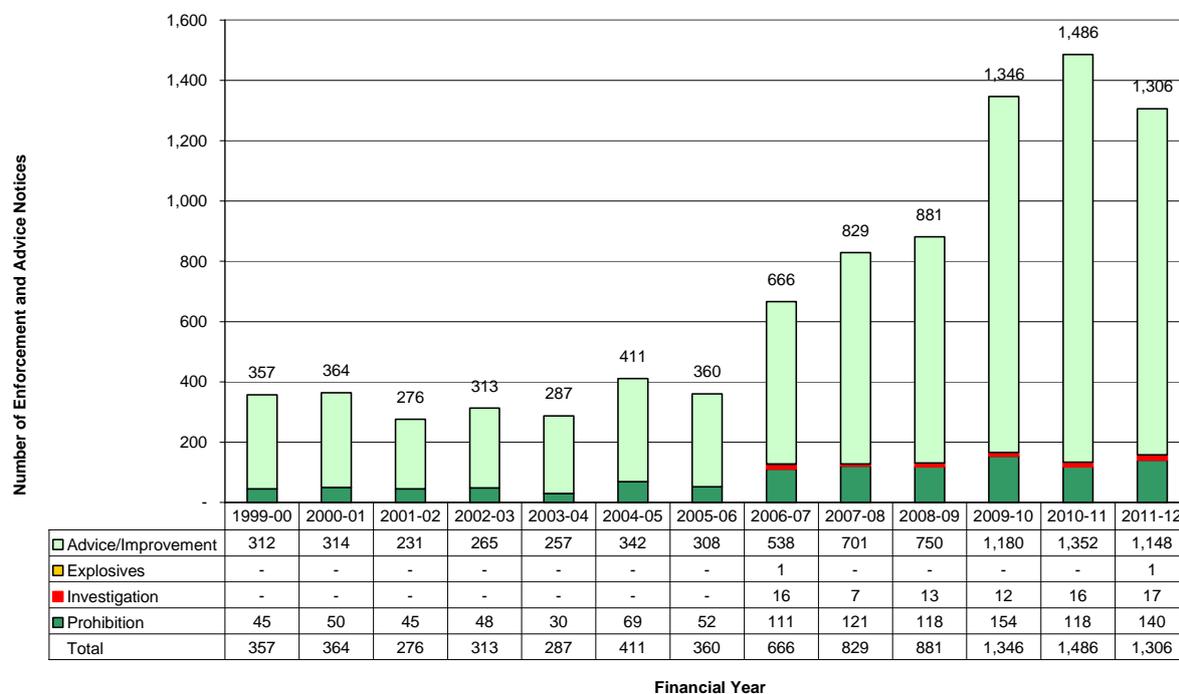
All Enforcement and Advice Notices by Operation Type 1999-00 to 2011-12
 NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09



7.1.3 All Enforcement and Advice Notices by Notice Category

Figure 149

All Enforcement and Advice Notices by Notice Category 1999-00 to 2011-12
 NB CMHSR 2006 commenced mid 2006-07 and MHSR 2007 commenced Q2 2008-09



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

7.2 Coal Enforcement and Advice Notices

7.2.1 Coal Enforcement and Advice Notices by Operation Type

Figure 150

Coal Enforcement and Advice Notices by Operation Type 1999-00 to 2011-12

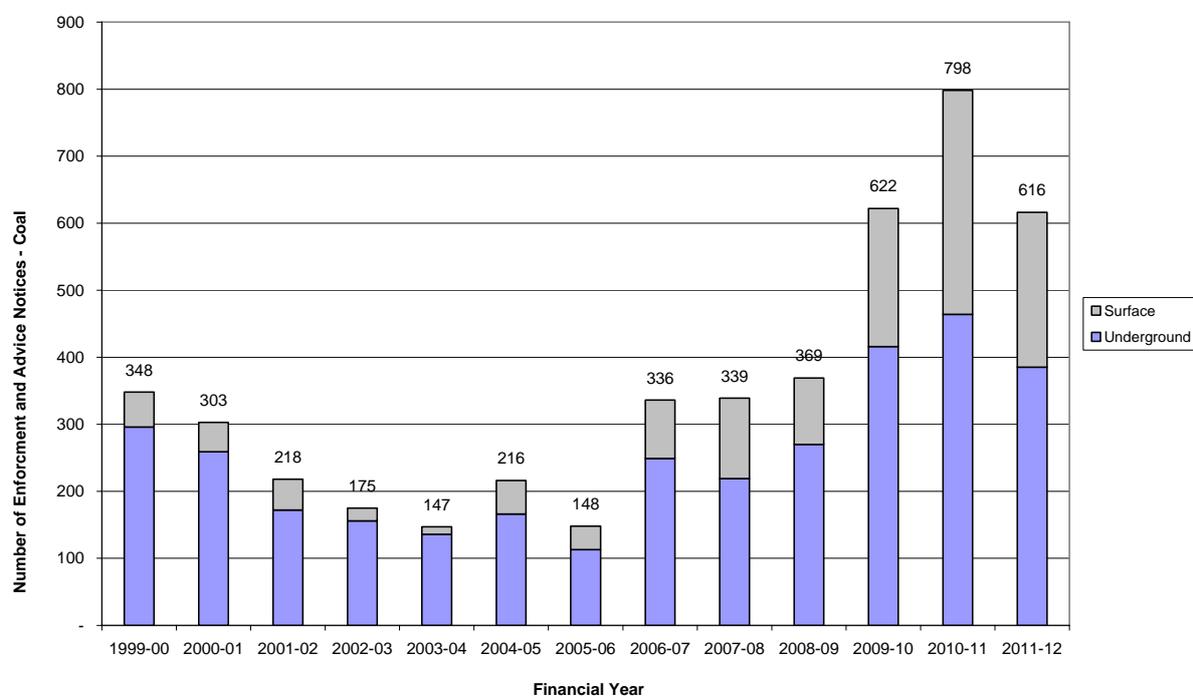
NB CMHSR 2006 commenced mid 2006-07

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	2011-12	Total
Underground	296	259	172	156	136	166	113	249	219	270	416	464	385	3,301
Surface	52	44	46	19	11	50	35	87	120	99	206	334	231	1,334
Total	348	303	218	175	147	216	148	336	339	369	622	798	616	4,635

Figure 151

Coal Enforcement and Advice Notices 1999-00 to 2011-12

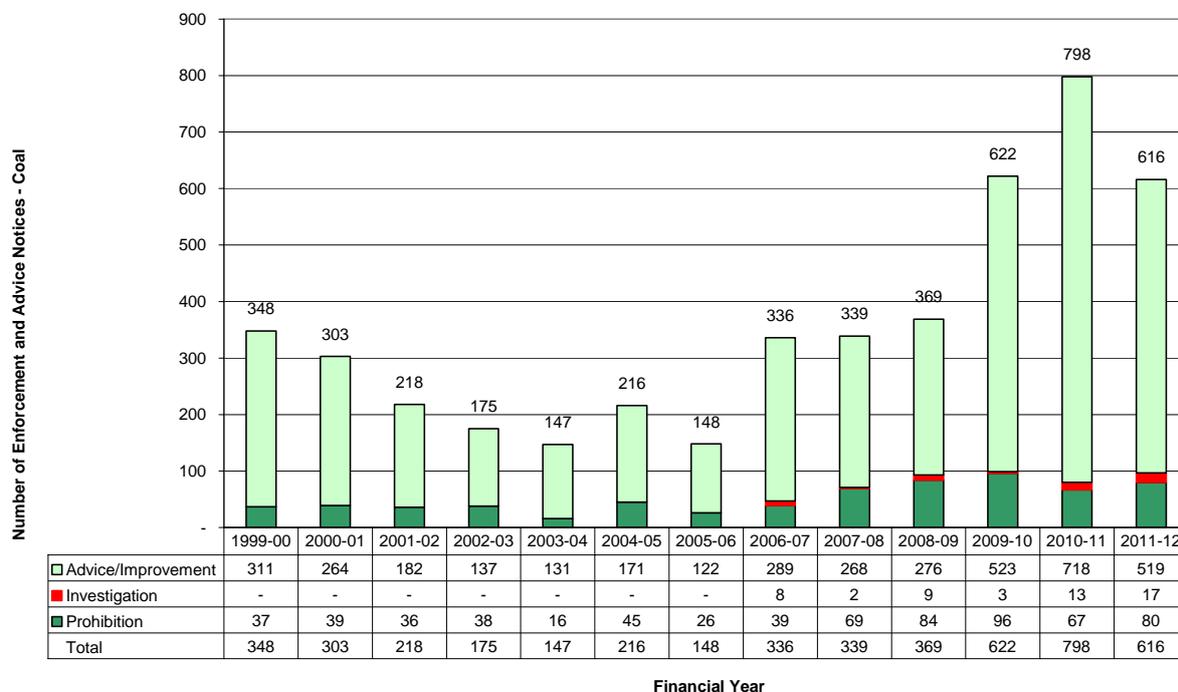
NB CMHSR 2006 commenced mid 2006-07



7.2.2 Coal Enforcement and Advice Notices by Notice Category

Figure 152

Coal Enforcement and Advice Notices by Notice Category 1999-00 to 2011-12
 NB CMHSR 2006 commenced mid 2006-07



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

7.3 Non-Coal Enforcement and Advice Notices

7.3.1 Non-Coal Enforcement and Advice Notices by Operation Type

Figure 153

Non-Coal Enforcement and Advice Notices by Operation Type 1999-00 to 2011-12

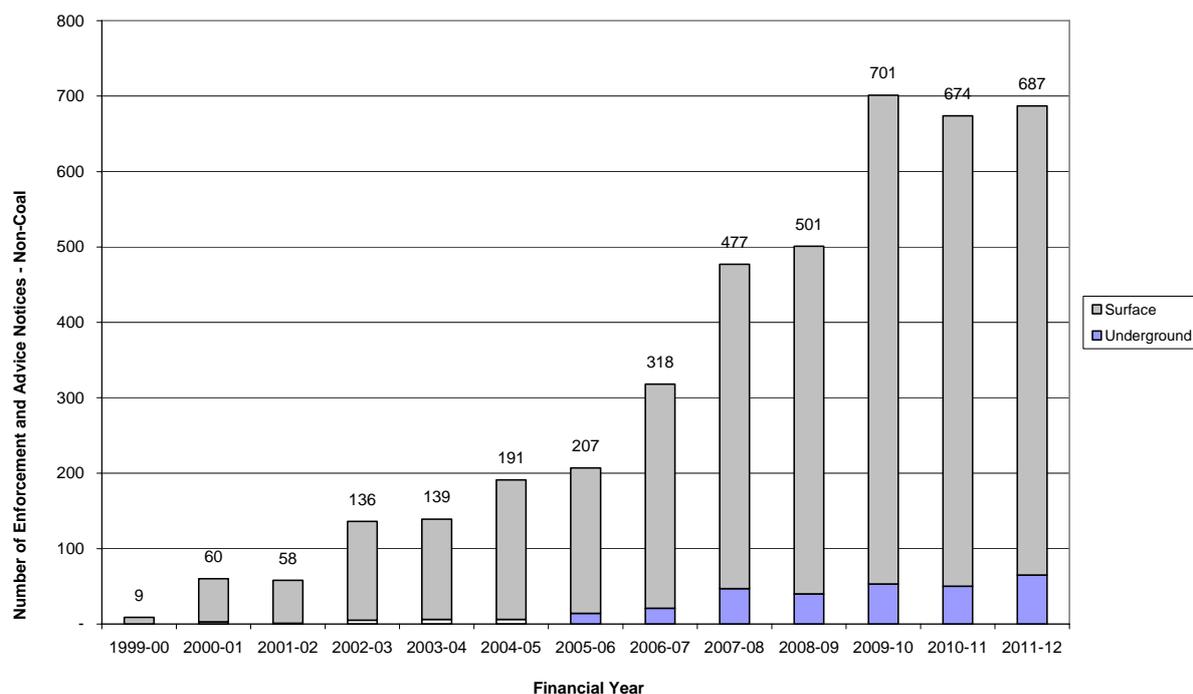
NB MHSR 2007 commenced Q2 2008-09

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	2011-12	Total
Surface	Metalliferous	1	2	6	8	-	9	7	12	27	10	21	28	21	152
	Extractives	8	55	50	122	132	176	184	262	389	444	619	583	595	3,619
	Non-Coal Other	-	-	1	1	1	-	2	23	14	7	8	13	6	76
	Total	9	57	57	131	133	185	193	297	430	461	648	624	622	3,847
Underground	Metalliferous	-	3	1	5	4	4	13	19	42	39	49	39	61	279
	Extractives	-	-	-	-	2	2	1	2	5	1	2	5	1	21
	Non-Coal Other	-	-	-	-	-	-	-	-	-	-	2	6	3	11
	Total	-	3	1	5	6	6	14	21	47	40	53	50	65	311
Total	9	60	58	136	139	191	207	318	477	501	701	674	687	4,158	

Figure 154

Non-Coal Enforcement and Advice Notices 1999-00 to 2011-12

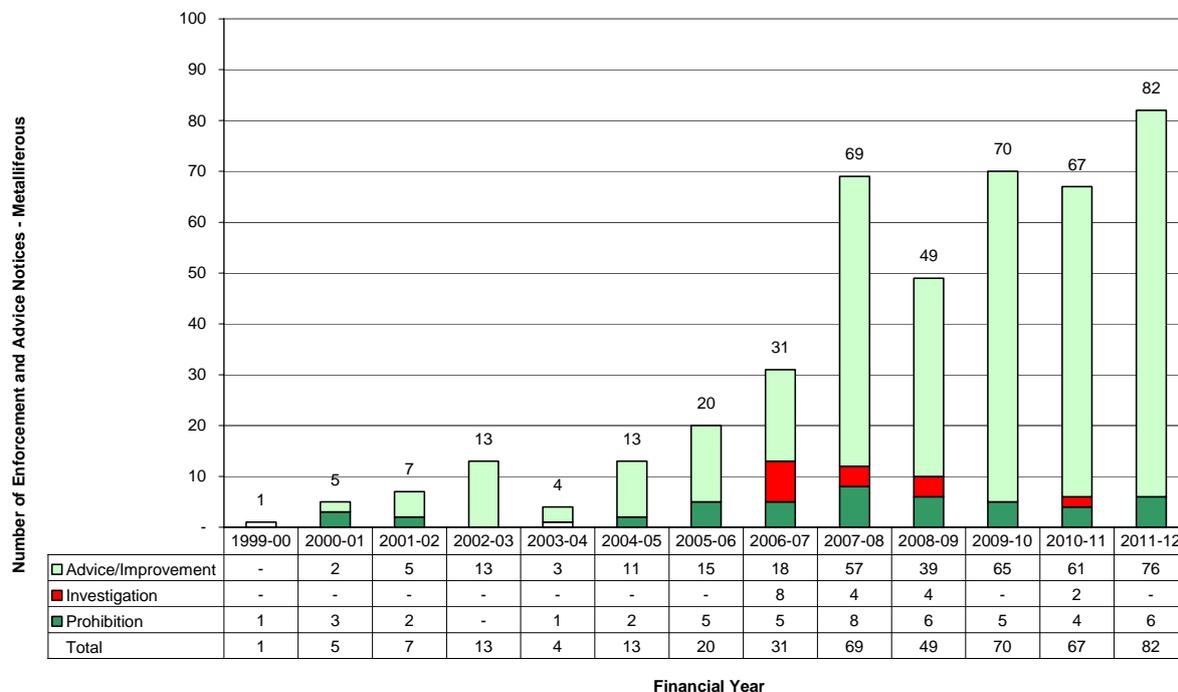
NB MHSR 2007 commenced Q2 2008-09



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

Figure 155

Non-Coal Metalliferous Enforcement and Advice Notices by Notice Category 1999-00 to 2011-12
 NB MHSR 2007 commenced Q2 2008-09



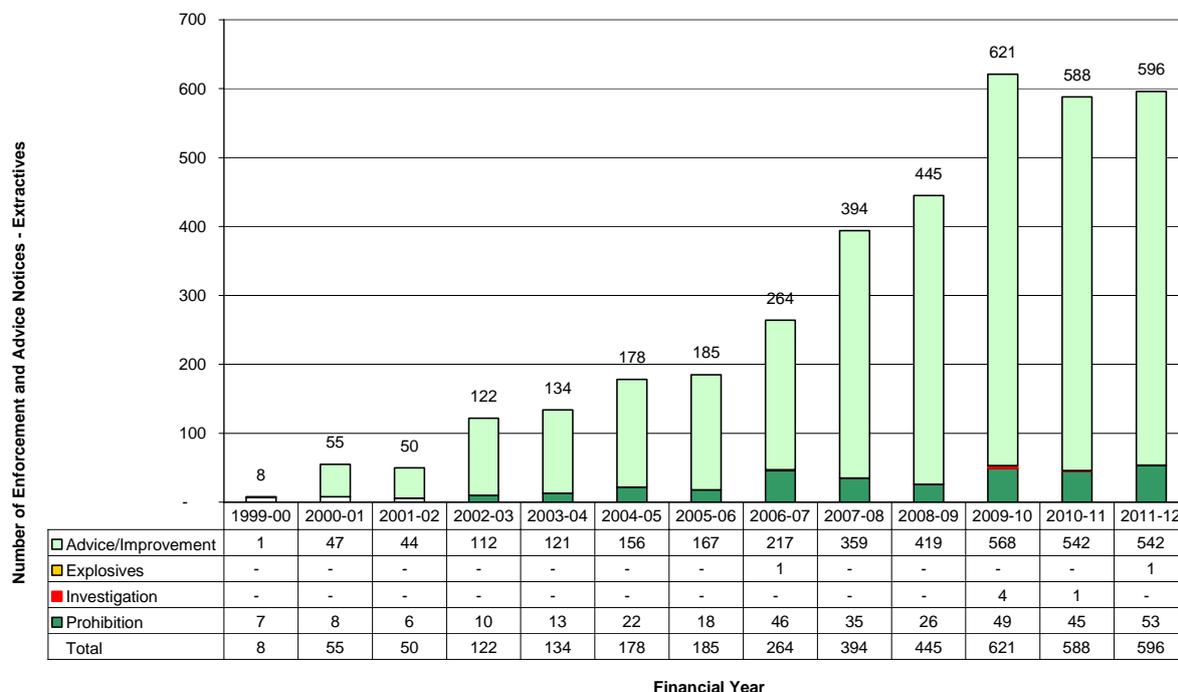
Refer to Appendix A.9 for a more detailed breakdown of Non-Coal Metalliferous Surface and Underground Enforcement and Advice Notices by Notice Category and Type

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

Figure 156

Non-Coal Extractives Enforcement and Advice Notices by Notice Category 1999-00 to 2011-12

NB MHSR 2007 commenced Q2 2008-09



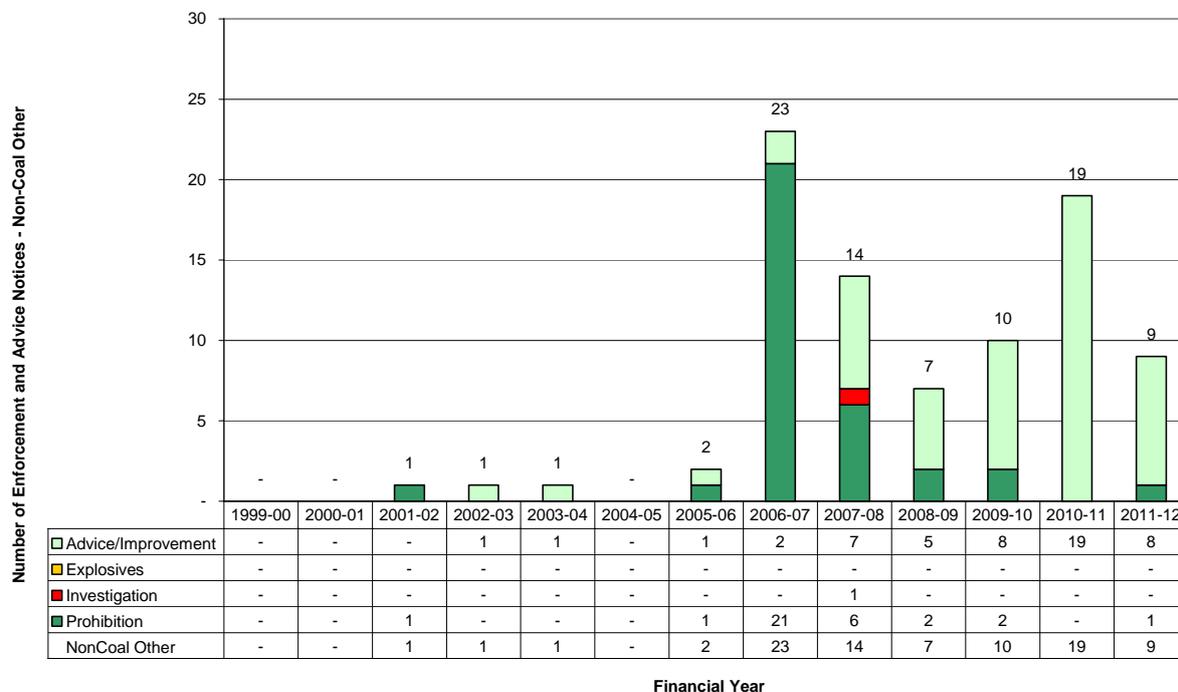
Refer to Appendix A.9 for a more detailed breakdown of Non-Coal Extractives Surface and Underground Enforcement and Advice Notices by Notice Category and Type

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

Figure 157

Non-Coal Other Enforcement and Advice Notices by Notice Category 1999-00 to 2011-12

NB MHSR 2007 commenced Q2 2008-09



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

7.4 Petroleum (Onshore) Enforcement and Advice Notices

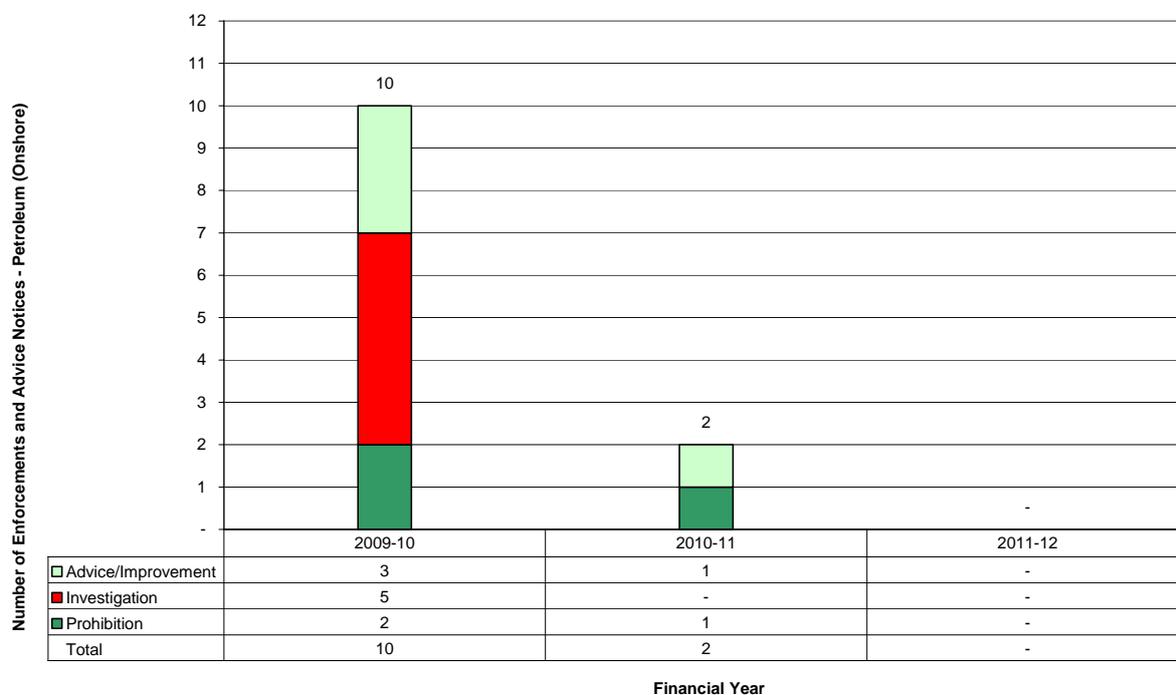
Petroleum enforcement and advice notices recorded in the COMET database appear below.

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

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

Figure 158

Petroleum (Onshore) Enforcement and Advice Notices by Notice Category 2009-10 to 2011-12



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

APPENDIX A ADDITIONAL FIGURES

Appendix A.1 Incidents

Figure 159

Coal Surface Incidents by Incident Type and Subtype 1999-00 to 2011-12

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	2011-12	Total	
*CMRA	*1984 Dangerous Occurrence O/C	*Unplanned movement 6(g) CMRA OC	22	3	-	-	-	-	-	-	-	-	-	-	-	25	
		*Outbreak of fire 6(a) CMRA OC	12	1	-	-	-	-	-	-	-	-	-	-	-	13	
		*Failure highwall, lowwall, spoil area 6(h) CMRA OC	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
		*Self heating of coal 6(b) CMRA OC	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
		*Electric shock 6(d) CMRA OC	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Total	38	5	-	-	-	-	-	-	-	-	-	-	-	-	43
	*Serious Bodily Injury CMRA	*Fracture(s)	-	-	2	9	2	-	-	-	-	-	-	-	-	-	13
		*Dislocation	-	-	1	-	1	-	-	-	-	-	-	-	-	-	2
		*Burns requiring hospital treatment	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
	Total	-	-	4	9	3	-	-	-	-	-	-	-	-	-	16	
	*CMRA Total	38	5	4	9	3	-	-	-	-	-	-	-	-	-	59	
	*CMGMR	*Non Spec Acc Ending in Fat/Injury	*SBI/SI	11	5	5	3	2	7	10	2	-	-	-	-	-	45
			*Lost Time Injury	-	1	-	1	1	-	-	2	-	-	-	-	-	-
*Fatality			-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
*Minor injury			-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
*MTI with NO Lost Time			1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Total			12	6	5	4	4	7	10	5	-	-	-	-	-	-	53
*Notifiable Incidents DCCP CMGMR 1999, CI 83		*Elect shock 83(1)(b)	6	4	7	4	4	6	6	2	-	-	-	-	-	-	39
		*Unplanned movement 83(1)(c)	5	8	3	1	1	2	5	1	-	-	-	-	-	-	26
		*Outbreak fire 83(1)(a)	1	-	-	-	1	-	4	-	-	-	-	-	-	-	6
		*Failure structure 83(1)(d)	2	-	1	-	2	-	-	-	-	-	-	-	-	-	5
Total	14	12	11	5	8	8	15	3	-	-	-	-	-	-	76		
*CMGMR Total	26	18	16	9	12	15	25	8	-	-	-	-	-	-	129		
*CMOCR	*Notifiable Incidents CMOCR 1999, CI 16	*Unplanned movement 16(1)(f)	30	42	32	21	49	26	46	3	-	-	-	-	-	249	
		*Elect shock 16(1)(d)	6	13	12	6	8	6	10	5	-	-	-	-	-	66	
		*Outbreak fire 16(1)(a)	7	11	5	7	2	2	5	2	-	-	-	-	-	41	
		*Failure high-lowwall etc 16(1)(g)	3	5	5	2	3	4	3	2	-	-	-	-	-	27	
		*Self heat 16(1)(b)	1	1	-	1	1	-	2	-	-	-	-	-	-	6	
		*Failure structure 16(1)(h)	2	1	-	1	-	-	-	-	-	-	-	-	-	4	
		*Flyrock 16(1)(j)	-	-	-	1	-	1	1	-	-	-	-	-	-	3	
		*Injury from Blasting 16(1)(e)	-	-	-	1	1	-	-	-	-	-	-	-	-	2	
	Total	49	73	54	40	64	39	67	12	-	-	-	-	-	-	398	
*CMOCR Total	49	73	54	40	64	39	67	12	-	-	-	-	-	-	398		
CMHS	CMHSR 2006 CI 55	55(h) collision on surface involving vehicle or mobile plant with gross weight > 2 tonnes	-	-	-	-	-	-	-	30	72	62	70	94	103	431	
		55(i) loss of control of heavy vehicle or large plant on surface	-	-	-	-	-	-	-	15	11	22	25	22	16	111	
		55(j) overturning of heavy vehicle or large plant on surface	-	-	-	-	-	-	-	4	11	15	11	17	14	72	
		55(c)(vi) unintended activation / movement of vehicles or machinery	-	-	-	-	-	-	-	3	5	5	11	9	21	54	

Coal Surface Incidents by Incident Type and Subtype 1999-00 to 2011-12 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	2011-12	Total		
		55(d)(i) involving electricity, person suffers injury, receives treatment from health professional or unable to attend work	-	-	-	-	-	-	-	1	6	4	7	1	13	32		
		55(c)(iv) failure of strata / slope stability control measures	-	-	-	-	-	-	-	-	2	5	7	3	6	6	29	
		55(c)(i) damage to any plant / building / structure	-	-	-	-	-	-	-	-	-	3	3	3	6	10	25	
		55(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	-	-	-	-	-	-	-	-	1	1	2	7	6	5	22	
		55(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	-	5	3	-	1	3	12	
		55(k) ejection of fly rock so that it falls outside blast exclusion zone or near people	-	-	-	-	-	-	-	-	-	2	-	3	1	1	7	
		55(g) abnormal inrush of fluid	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	
		Total	-	-	-	-	-	-	-	-	56	121	124	140	163	193	797	
	CMHSR 2006 CI 56(1)		56(1)(n) uncontrolled explosion, fire / misfire of explosives in surface parts	-	-	-	-	-	-	-	35	80	95	90	105	148	553	
			56(1)(p) unintended activation or movement of vehicles/machinery, no immediate threat to life or incapacitating injury	-	-	-	-	-	-	-	-	20	64	83	83	143	139	532
			56(1)(e) contact of person with energised electrical item supplied above extra low voltage	-	-	-	-	-	-	-	-	3	6	8	13	15	14	59
			56(1)(o) escape of fluid under pressure that could place any person at risk	-	-	-	-	-	-	-	-	-	4	4	8	5	6	27
			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	1	4
			56(1)(h) unplanned fall of roof / roof sides, impedes passage / disrupts mine ventilation / extends outside bolted zone	-	-	-	-	-	-	-	-	-	1	-	-	1	-	2
	Total	-	-	-	-	-	-	-	-	62	155	192	194	270	308	1,181		
CMHSR 2006 CI 57		57(c) the unintended activation or movement of machinery (other than a vehicle)	-	-	-	-	-	-	-	-	-	1	5	4	5	15		
		Total	-	-	-	-	-	-	-	-	-	-	1	5	4	5	15	
Non Spec Acc Ending in Fat/Injury		Notifiable Injury/Outcome	-	-	-	-	-	-	-	31	38	69	62	61	82	343		
		Total	-	-	-	-	-	-	-	-	31	38	69	62	61	82	343	
CMHS Total			-	-	-	-	-	-	-	149	314	386	401	498	588	2,336		

Coal Surface Incidents by Incident Type and Subtype 1999-00 to 2011-12 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	2011-12	Total	
Explosives	Explosives Regulation 2005	Loss or theft of explosives or explosive precursors Cl 39	-	-	-	-	-	-	-	1	-	-	-	-	1	2	
		Total	-	-	-	-	-	-	-	-	1	-	-	-	-	1	2
	Explosives Total		-	-	-	-	-	-	-	1	-	-	-	-	1	2	
N/A	Complaint	Mine Employee Complaint	1	-	-	-	1	-	-	-	1	-	-	-	-	3	
		Other	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
		Total	1	-	-	-	1	-	-	1	-	1	-	-	-	-	4
	High Potential Incident	Electrical energy from apparatus such as cables, transformers, switch gear, connections	1	-	1	2	5	1	-	-	-	1	-	-	2	-	13
		Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	2	2	-	1	-	-	2	-	2	-	-	1	1	-	11
		High wall/Pit wall	1	-	-	1	-	-	-	-	-	-	-	1	-	1	4
		Other	2	-	-	-	-	-	1	-	1	-	-	-	-	-	4
		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, CH4	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		Explosives incident not a dangerous incident	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
		Hydraulic pressure from pump stations & reticulation or equipment	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
		Lightning strike	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		Spontaneous combustion such as coal	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
		Water - from rain or storms	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
	Wildlife such as kangaroos, snakes, spiders	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
	Total			7	3	3	5	9	5	2	3	3	1	3	4	1	49
	Other	Non-mining Fatality/Injury	-	-	1	-	-	-	-	-	-	-	-	-	-	1	2
		Total	-	-	1	-	-	-	-	-	-	-	-	-	-	1	2
	Unknown	Unknown	5	1	15	8	-	-	-	-	-	-	-	-	-	-	29
		Total	5	1	15	8	-	-	-	-	-	-	-	-	-	-	29
		N/A Total		13	4	19	13	10	5	3	3	4	1	3	4	2	84
	Coal Surface Incidents Total			126	100	93	71	89	59	95	173	318	387	404	502	591	3,008

Figure 160

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2011-12

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	2011-12	Total	
*CMRA	*1984 Dangerous Occurrence O/C	*Outbreak of fire 6(a) CMRA OC	-	2	-	-	-	-	-	-	-	-	-	-	-	2	
		Total	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2
	*1984 Dangerous Occurrence U/G	*Fire below ground 6(b) CMRA UG	12	7	-	-	-	-	-	-	-	-	-	-	-	-	19
		*Arcing 6(n) CMRA UG	4	1	-	-	-	-	-	-	-	-	-	-	-	-	5
		*Buried continuous miner 7 CMRA UG	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
		*Electric shock 6(l) CMRA UG	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		*Fire on surface 6(c) CMRA UG	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		*Ignition of gas not dust 6(a) CMRA UG	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		*Insurge of gas 6(j) CMRA UG	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		Total	22	8	-	-	-	-	-	-	-	-	-	-	-	-	30
	*Fatality	*Not Applicable	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		Total	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
	*Serious Bodily Injury CMRA	*Fracture(s)	-	-	3	7	9	-	-	-	-	-	-	-	-	-	19
		*Injection hydraulics 85(g)	-	-	-	1	2	-	-	-	-	-	-	-	-	-	3
		*Burns requiring hospital treatment	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2
		*Dislocation	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
		*Amputation	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
	Total	-	2	3	11	11	-	-	-	-	-	-	-	-	-	27	
	*CMRA Total		22	12	3	11	12	-	-	-	-	-	-	-	-	-	60
*Non Spec Acc Ending in Fat/Injury	*SBI/SI	25	30	22	14	27	22	16	17	-	-	-	-	-	-	173	
	*Lost Time Injury	-	-	1	-	-	-	2	8	-	-	-	-	-	-	11	
	*Fatality	3	2	1	-	1	-	1	-	1	-	-	-	-	-	8	
	*Minor injury	-	-	1	1	-	-	-	1	2	-	-	-	-	-	5	
	Total	28	32	25	15	28	22	19	28	-	-	-	-	-	-	197	
*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
		Total	4	8	9	4	-	-	-	2	-	-	-	-	-	-	27
*CMGNR Total		32	40	34	19	28	22	19	30	-	-	-	-	-	-	224	
*CMUGR	*Dangerous Occurrences CMUGR 1999, CI 34(1)	*Failure explosion protection 34(1)(g)	5	38	44	37	12	-	-	-	-	-	-	-	-	-	136
		*Outbreak fire self heat 34(1)(b)	17	18	17	15	17	24	15	6	-	-	-	-	-	-	129
		*Ignition gas dust 34(1)(a)	-	2	2	2	8	3	1	5	-	-	-	-	-	-	23
		*Damage failure haulage 34(1)(f)	2	4	4	4	-	-	5	-	-	-	-	-	-	-	19
		*Failure ventilation 34(1)(c)	-	-	2	2	1	1	1	-	-	-	-	-	-	-	7
		*Inrush 34(1)(d)	-	1	-	1	-	1	-	-	-	-	-	-	-	-	3
		*Outburst 34(1)(e)	-	1	1	-	-	-	-	1	-	-	-	-	-	-	3
		*Ignition explosives 34(1)(h)	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		*Pillar collapse 34(1)(i)	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
		Total	24	64	70	61	39	30	22	12	-	-	-	-	-	-	322
	*Incidents CMUGR 1999, CI 34 (2) Repealed 4/7/2003	*Unplanned movement 34(2)(e)	17	37	51	38	9	-	-	-	-	-	-	-	-	-	152
		*Elect shock 34(2)(h)	5	7	7	9	1	-	-	-	-	-	-	-	-	-	29
		*Fall roof sides 34(2)(a)	3	6	4	4	2	-	-	-	-	-	-	-	-	-	19
		*Entrapment breaker line 34(2)(d)	2	9	2	1	-	-	-	-	-	-	-	-	-	-	14
		*Entrapment cont. miner 34(2)	6	2	1	1	-	-	-	-	-	-	-	-	-	-	10
*Windblast 34(2)(b)	-	4	2	-	-	-	-	-	-	-	-	-	-	-	6		
*Failure structure 34(2)(g)	2	1	1	1	-	-	-	-	-	-	-	-	-	-	5		
Total	35	66	68	54	12	-	-	-	-	-	-	-	-	-	235		

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2011-12 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	2011-12	Total	
*CMUGR	*Notifiable Incidents CMUGR 1999 CI 34A	*Unplanned movement 34A (1)(b)	-	1	7	-	29	29	57	27	-	-	-	-	-	150	
		*Elect shock 34A (1)(a)	-	-	-	1	7	8	17	14	-	-	-	-	-	-	47
		*Failure structure 34A (1)c	-	-	-	-	2	1	2	2	-	-	-	-	-	-	7
		Total	-	1	7	1	38	38	76	43	-	-	-	-	-	-	204
	*Other Notifiable Incidents CMUGR 1999 CI 34B	*Arcing on electric cable 34B (1)(a)	-	-	-	2	15	50	76	33	-	-	-	-	-	-	176
		*Failure explosion protection 34B (1)(g)	-	-	1	9	24	39	34	20	-	-	-	-	-	-	127
		*Fall roof sides 34B (1)(b)	-	-	1	-	6	3	4	4	-	-	-	-	-	-	18
		*Entrapment cont. miner 34B (1)(d)	-	-	-	1	1	3	1	1	-	-	-	-	-	-	7
		*Entrapment breaker line 34B (1)(e)	-	-	-	-	-	2	1	1	-	-	-	-	-	-	4
		*Windblast 34B (1)c	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
		Total	-	-	2	12	47	97	116	59	-	-	-	-	-	-	333
	*CMUGR Total		59	131	147	128	136	165	214	114						1,094	
CMHS	CMHSR 2006 CI 55	55(l) failure of any part of powered winding system or damage to shaft or shaft equipment	-	-	-	-	-	-	-	14	12	31	54	46	22	179	
		55(e) uncontrolled explosion / fire / misfire of explosives in underground parts	-	-	-	-	-	-	-	4	25	37	29	20	21	136	
		55(h) collision on surface involving vehicle or mobile plant with gross weight > 2 tonnes	-	-	-	-	-	-	-	4	5	14	16	22	30	91	
		55(c)(vi) unintended activation / movement of vehicles or machinery	-	-	-	-	-	-	-	6	14	6	15	5	9	55	
		55(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	-	-	-	-	-	-	-	7	8	10	7	10	5	47	
		55(d)(i) involving electricity, person suffers injury, receives treatment from health professional or unable to attend work	-	-	-	-	-	-	-	3	7	13	7	8	6	44	
		55(j) overturning of heavy vehicle or large plant on surface	-	-	-	-	-	-	-	-	4	5	4	2	2	17	
		55(i) loss of control of heavy vehicle or large plant on surface	-	-	-	-	-	-	-	-	4	3	2	1	2	3	15
		55(c)(iv) failure of strata / slope stability control measures	-	-	-	-	-	-	-	-	3	1	1	3	4	12	
		55(c)(i) damage to any plant / building / structure	-	-	-	-	-	-	-	-	2	1	-	1	1	3	8
		55(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	2	1	2	3	-	-	8
		55(f) uncontrolled outburst of gas	-	-	-	-	-	-	-	-	-	-	1	2	-	5	8
55(g) abnormal inrush of fluid	-	-	-	-	-	-	-	-	-	-	1	-	2	1	4		
	Total									46	83	123	140	121	111	624	

Coal Underground Incidents by Incident Type and Subtype 1999-00 to 2011-12 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	2011-12	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	647	4,115		
		56(1)(m) in-service failure of explosion-protection characteristics	-	-	-	-	-	-	-	57	137	322	477	344	348	1,685		
		56(1)(o) escape of fluid under pressure that could place any person at risk	-	-	-	-	-	-	-	-	236	357	278	202	184	185	1,442	
		56(1)(p) unintended activation or movement of vehicles/machinery, no immediate threat to life or incapacitating injury	-	-	-	-	-	-	-	-	69	121	164	217	189	205	965	
		56(1)(l) event in hazardous zone, underground parts, electric arc observed or leaves visible evidence on electric cable	-	-	-	-	-	-	-	-	49	69	76	82	71	70	417	
		56(1)(h) unplanned fall of roof / roof sides, impedes passage / disrupts mine ventilation / extends outside bolted zone	-	-	-	-	-	-	-	-	20	27	29	24	23	33	156	
		56(1)(e) contact of person with energised electrical item supplied above extra low voltage	-	-	-	-	-	-	-	-	8	10	3	8	7	10	46	
		56(1)(n) uncontrolled explosion, fire / misfire of explosives in surface parts	-	-	-	-	-	-	-	-	-	-	12	2	8	10	10	42
		56(1)(j) burial of machinery, cannot be recovered under own tractive effort	-	-	-	-	-	-	-	-	-	1	4	1	4	9	6	25
		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)(d) spill / incident, exposure / potential exposure to notifiable or prohibited carcinogenic substance	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	3
		56(1)(i) windblast results in injuries requiring treatment by medical practitioner	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	3
		Total			-	-	-	-	-	-	-	727	1,392	1,685	1,821	1,765	1,515	8,907
		CMHSR 2006 CI 57	57(c) unintended activation or movement of machinery (other than vehicle)		-	-	-	-	-	-	-	-	-	-	-	-	1	1
Total	-			-	-	-	-	-	-	-	-	-	-	-	-	1	1	
Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome		-	-	-	-	-	-	-	184	446	368	372	372	389	2,131		
		Total	-	-	-	-	-	-	-	184	446	368	372	372	389	2,131		
CMHS Total			-	-	-	-	-	-	-	957	1,921	2,176	2,333	2,258	2,016	11,663		
N/A	Complaint	Mine Employee Complaint	2	-	1	-	-	-	-	-	-	1	-	1	-	5		
		Other	2	1	-	-	-	1	1	-	-	-	-	-	-	-	5	
		Public Complaint	1	-	-	-	-	-	-	-	-	1	-	-	-	-	2	
		Total	5	1	1	-	-	-	1	1	-	1	1	-	1	-	12	
	High Potential Incident	Electrical energy from apparatus such as cables, transformers, switch gear, connections	2	1	4	4	4	3	3	5	2	1	-	-	1	4	34	
		Mining equipment such as continuous miners, excavators, drills, shovels	4	1	1	2	2	6	1	-	1	-	-	-	-	1	19	
Other		-	-	1	3	1	4	-	1	-	1	1	1	1	1	14		
	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 2011-12 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	2011-12	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 ₂ , CH ₄	-	1	-	1	2	-	-	-	2	-	1	1	-	8		
		Fixed mechanical equipment such as conveyors, crushers, screens	1	3	2	-	1	-	-	1	-	-	-	-	-	1	9	
		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	
		Water - from rain or storms	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	
		Water pressure from pump stations & reticulation or equipment	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
		Wildlife such as kangaroos, snakes, spiders	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
		Total			17	11	11	13	14	19	10	9	9	4	6	4	7	134
		Other	Non-mining Fatality/Injury		-	1	1	1	-	-	-	-	-	-	-	-	-	3
			Total		-	1	1	1	-	-	-	-	-	-	-	-	-	3
		UNKNOWN	Unknown		8	1	23	9	-	-	-	-	-	-	-	-	-	41
			Total		8	1	23	9	-	-	-	-	-	-	-	-	-	41
N/A Total			30	14	36	23	14	20	11	9	10	5	6	5	7	190		
Coal Underground Incidents Total			143	197	220	181	190	207	244	1,110	1,931	2,181	2,339	2,263	2,023	13,231		

Figure 161

Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 1999-00 to 2011-12

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	2011-12	Total	
*MIA	*1994 Emergency MIA	*Failure of workings of mine MIA	5	-	-	-	-	-	-	-	-	-	-	-	-	5	
		*Machinery out of control MIA	5	-	-	-	-	-	-	-	-	-	-	-	-	-	5
		*Outbreak of fire MIA	5	-	-	-	-	-	-	-	-	-	-	-	-	-	5
		*Potential to cause serious injury	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
		*Explosion/ignition dust MIA	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		*Exposure hazardous materials MIA	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		Total	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	*Pre Sept 2000 Dangerous Incident MIA	*Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	1	4	9	-	-	-	-	-	-	-	-	-	-	-	14
		*Electrical energy from apparatus such as cables, transformers, switch gear, connections	2	3	3	-	-	-	-	-	-	-	-	-	-	-	8
		*High wall/Pit wall	-	-	3	-	-	-	-	-	-	-	-	-	-	-	3
		*Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	-	3	-	-	-	-	-	-	-	-	-	-	-	-	3
		*Flammable gases such as Acetylene, LPG	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		*Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
		*Mining equipment such as continuous miners, excavators, drills, shovels	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	*Slopes/grades/ramps where equipment can move in an uncontrolled manner	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
	Total	5	10	17	-	-	-	-	-	-	-	-	-	-	-	-	32
	*Serious Injury MIA	*Fracture(s)	-	-	-	2	2	-	-	-	-	-	-	-	-	-	4
		*Asphyxia	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
		*Dislocation	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
	Total	-	-	-	2	4	-	-	-	-	-	-	-	-	-	-	6
	*Dangerous Incident	*Electric shock Cl 68(5)(a)	-	-	-	6	5	5	5	5	7	4	-	-	-	-	32
		*Mobile Plant - general transport/traffic	-	-	-	3	1	6	11	2	2	2	-	-	-	-	25
		*Mobile Plant - fires on equipment (surface)	-	-	3	5	5	2	2	-	1	-	-	-	-	-	18
		*Outbreak of fire due to electrical equipment Cl 68(5)(c)	-	-	2	-	1	1	1	-	1	-	-	-	-	-	6
		*Isolation of energy	-	-	-	-	-	1	2	1	-	-	-	-	-	-	4
		*Misfire - significant Cl 65(1)	-	-	-	2	1	-	-	1	-	-	-	-	-	-	4
		*Fixed Equipment - fire (surface)	-	-	-	-	-	-	-	1	2	-	-	-	-	-	3
		*Structural Failure	-	-	-	-	-	-	1	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 Cl 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 Cl 68(5)(d)		-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	
Total	-	-	6	17	16	17	24	14	12	-	-	-	-	-	-	106	

Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 1999-00 to 2011-12 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	2011-12	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
		Total	9	2	-	1	1	1	1	3	5	1	1	-	-	-	24
*MIA Total			33	12	23	20	21	18	27	19	13	1	-	-	-	187	
Explosives	Explosives Regulation 2005	Serious Incidents involving explosives Cl 75	-	-	-	-	-	-	-	1	-	-	-	-	-	1	
		Total	-	1	-	-	-	-	-	-	1						
Explosives Total			-	1	-	-	-	-	-	1							
MHS	MHSR 2007 Cl 145	145(e) uncontrolled explosion or fire	-	-	-	-	-	-	-	-	-	15	18	13	13	59	
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	-	2	3	8	4	17
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	-	-	-	-	1	6	2	4	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	4	3	1	12
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	-	-	-	-	1	4	2	2	9
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	-	-	-	-	1	3	4	1	9
		145(j) the loss of control of a vehicle or other machinery at the mine	-	-	-	-	-	-	-	-	-	-	-	2	3	4	9
		145(d)(ii) any incident involving electricity: (ii) where a vehicle, machinery or other plant makes contact with an energised high voltage source involving a risk to any person)	-	-	-	-	-	-	-	-	-	-	-	1	-	3	4
		145(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2
		145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2
		145(c)(i) damage to any plant, equipment, building or structure	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
		145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
		145(g) uncontrolled issue of gas or fluids	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
		145(p) burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
Total			-	27	41	37	35	140									
Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	Total	-	3	7	5	7	22									
		Total	-	30	48	42	42	162									
MHS Total			-	30	48	42	42	162									
N/A	Complaint	Mine Employee Complaint	-	2	1	-	2	3	1	-	3	2	6	-	1	21	
		Public Complaint	-	-	1	-	2	3	1	-	1	-	1	1	1	11	
		Other	-	-	-	-	1	1	3	-	2	-	-	-	-	7	
		Total	-	2	2	-	5	7	5	-	6	2	7	1	2	39	
	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	1	2	-	1	12	

Non-Coal Metalliferous Surface Incidents by Incident Type and Subtype 1999-00 to 2011-12 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	2011-12	Total
		Mining equipment such as continuous miners, excavators, drills, shovels	-	-	-	-	-	2	-	1	2	2	-	1	-	8
		High wall/Pit wall	-	-	-	-	-	1	-	3	3	-	-	-	-	7
		Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	-	-	-	-	-	-	1	2	1	-	-	-	-	4
		Explosive Incident not a Dangerous Incident	-	-	-	-	-	-	-	-	2	-	1	-	-	3
		Slopes/grades/ramps where equipment can move in a uncontrolled manner	-	-	-	1	1	-	-	1	-	-	-	-	-	3
		Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	1	-	-	-	-	1	-	-	-	-	-	-	-	2
		Fixed mechanical equipment such as conveyors, crushers, screens	1	-	-	1	-	-	-	-	-	-	-	-	-	2
		Stored pressure/energy such as accumulators, spring/tension devices	-	-	-	-	1	-	-	-	-	1	-	-	-	2
		Biological such as exposure to work related bacteria	-	1	-	-	-	-	-	-	-	-	-	-	-	1
		Explosive gases such as H ₂ , CH ₄	-	-	-	1	-	-	-	-	-	-	-	-	-	1
		Total	3	4	5	6	8	14	7	15	17	9	6	1	1	96
	UNKNOWN	UNKNOWN	2	-	-	-	-	-	-	-	-	-	-	-	-	2
		Total	2	-	2											
	N/A Total		5	6	7	6	13	21	12	15	23	11	13	2	3	137
	Non-Coal Metalliferous Surface Incidents Total		38	18	30	26	34	39	39	35	36	42	61	44	45	487

Figure 162

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 1999-00 to 2011-12

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	2011-12	Total		
*MIA	*1994 Emergency MIA	*Machinery out of control MIA	15	1	1	-	-	-	-	-	-	-	-	-	-	17		
		*Outbreak of fire MIA	7	3	2	-	-	-	-	-	-	-	-	-	-	-	12	
		*Potential to cause serious injury	7	2	-	-	-	-	-	-	-	-	-	-	-	-	9	
		*Failure of workings of mine MIA	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
		*Inrush of water MIA	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
		Total	34	6	3	-	-	43										
	*Fatality	*Not Applicable	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
		Total	-	-	-	-	1	-	-	1								
	*Minor Accident MIA	*Lost Time Injury	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3	
		*MTI with NO Lost Time	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2	
		Total	-	-	1	4	-	-	5									
	*MIA	*Pre Sept 2000 Dangerous Incident MIA	*Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	3	24	20	-	-	-	-	-	-	-	-	-	-	47	
			*Electrical energy from apparatus such as cables, transformers, switch gear, connections	2	12	6	-	-	-	-	-	-	-	-	-	-	-	20
			*Other	-	3	2	-	-	-	-	-	-	-	-	-	-	-	5
			*Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers	2	2	1	-	-	-	-	-	-	-	-	-	-	-	5
			*Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	3	1	-	-	-	-	-	-	-	-	-	-	-	-	4
			*Roof/back	2	-	1	-	-	-	-	-	-	-	-	-	-	-	3
			*Water - in large volumes	1	-	1	1	-	-	-	-	-	-	-	-	-	-	3
			*Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2
			*Fixed mechanical equipment such as conveyors, crushers, screens	1	-	1	-	-	-	-	-	-	-	-	-	-	-	2
			*Flammable gases such as Acetylene, LPG	1	1	-	-	-	-	-	-	-	-	-	-	-	-	2
			*High wall/Pit wall	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2
			*Mining equipment such as continuous miners, excavators, drills, shovels	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2
*Rib/sides			-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
*Stored pressure/energy such as accumulators, spring/tension devices			-	1	1	-	-	-	-	-	-	-	-	-	-	-	2	
*Explosive dusts such as coal, sulphide dust			1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
*Other gases with health effects such as			-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
*Water - from rain or storms	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1			
Total	16	52	35	1	-	104												
*Serious Injury MIA	*Fracture(s)	-	-	3	1	4	-	-	-	-	-	-	-	-	-	8		
	Total	-	-	3	1	4	-	8										
Dangerous Incident	*Mobile Plant - fires on equipment (underground)	-	-	1	3	4	9	26	29	9	-	-	-	-	-	81		
	*Electric shock cl 68 (5)	-	1	7	9	11	13	7	7	8	1	-	-	-	-	64		
	*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 2011-12
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	2011-12	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	2	-	-	-	-	-	-	9
		*Inrush of Water Material or Gas	-	1	-	-	1	1	2	-	3	-	-	-	-	-	8
		*Structural Failure	-	-	-	-	-	-	4	2	2	-	-	-	-	-	8
		*Unplanned movement due to electricity CI 68(5)(d)	-	1	1	2	1	2	1	-	-	-	-	-	-	-	8
		*Winding systems	-	-	-	-	1	2	1	1	-	-	-	-	-	-	5
		*Guarding - conveyors	-	-	-	-	-	2	1	-	-	-	-	-	-	-	3
		*Slope stability	-	-	-	-	1	-	1	1	-	-	-	-	-	-	3
		*Fixed Equipment - fire (surface)	-	-	-	-	-	-	1	-	-	1	-	-	-	-	2
		*Misfire - significant CI 65(1)	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
		*Ventilation U/G - fumes	-	-	-	1	-	1	-	-	-	-	-	-	-	-	2
		*Hazardous chemicals	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		*Working at height	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
	Total			4	31	48	57	53	64	49	27	4	-	-	-	337	
	*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
		*MTI with NO Lost Time	4	1	-	-	-	-	-	-	-	-	-	-	-	-	5
		*Fatality	3	-	-	-	-	-	-	1	-	-	-	-	-	-	4
*Minor injury		-	-	-	-	1	-	2	-	-	-	-	-	-	-	3	
Total	60	7	5	3	3	8	13	8	3	-	-	-	-	-	110		
*MIA Total	110	69	78	55	64	56	72	62	35	7	-	-	-	-	608		
Explosives	Explosives Regulation 2005	75(1)(a) uncontrolled explosion or fire involving explosives	-	-	-	-	-	-	-	1	-	-	-	-	1	2	
		39 Loss or theft of explosives or explosive precursors	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
		75(1)(cc) incident involving explosives and involving risk of an uncontrolled explosion of fire or of any such death, injury or damage	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
	Total	-	-	-	-	-	-	-	-	1	-	-	-	1	2	4	
Explosives Total	-	-	-	-	-	-	-	-	1	-	-	-	1	2	4		
MHS	MHSR 2007 CI 145	145(e) uncontrolled explosion or fire	-	-	-	-	-	-	-	-	22	28	24	37	111		
		145(j) loss of control of vehicle or other machinery	-	-	-	-	-	-	-	-	-	11	12	10	14	47	
		145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present	-	-	-	-	-	-	-	-	-	2	12	14	13	41	
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	-	-	-	3	5	8	16	32	
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	4	7	7	7	25	
		145(p) burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	2	6	5	9	22	
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	-	-	-	4	5	3	7	19	
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	-	-	-	-	1	3	7	11	
145(m) failure of any part of powered winding system or damage to shaft or shaft equipment	-	-	-	-	-	-	-	-	-	4	4	1	2	11			

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 1999-00 to 2011-12
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	2011-12	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	4	10		
		145(d)(ii) involving electricity, vehicle / machinery / other plant makes contact with energised high voltage source involving risk to person	-	-	-	-	-	-	-	-	-	-	3	2	2	2	9	
		145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	-	-	-	-	4	1	3	8	
		145(c)(ii) imminent risk of explosion or fire	-	-	-	-	-	-	-	-	-	-	3	-	-	4	7	
		145(g) uncontrolled issue of gas or fluids	-	-	-	-	-	-	-	-	-	-	2	3	-	2	7	
		145(c)(i) damage to any plant, equipment, building or structure,	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	6
		145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	-	-	-	-	3	1	1	1	6	
		145(o) airblast	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
	Total	-	-	-	-	-	-	-	-	-	-	-	64	96	84	129	373	
	MHSR 2007 CI 146(1)	146(1)(e) a significant misfire of explosives	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
	Total	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	-	7	13	18	16	54	
	Total	-	-	-	-	-	-	-	-	-	-	-	7	13	18	16	54	
MHS Total	-	-	-	-	-	-	-	-	-	-	-	71	110	102	145	428		
N/A	Complaint	Mine Employee Complaint	1	1	4	2	3	-	2	4	2	5	5	3	2	34		
		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	
	Total	3	2	7	3	8	4	6	6	5	7	7	6	2	-	66		
	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	-	-	2	-	47	
		Other	2	-	3	3	5	7	3	7	5	-	2	5	1	-	43	
		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	1	-	11	
		Mining equipment such as continuous miners, excavators, drills, shovels	-	-	-	-	-	1	-	2	2	-	1	1	1	1	8	
		Explosive gases such as H, CH4	-	-	1	-	4	-	-	1	-	-	-	-	-	-	6	
		Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	-	1	-	1	-	-	-	2	1	1	-	-	-	-	6	

Non-Coal Metalliferous Underground Incidents by Incident Type and Subtype 1999-00 to 2011-12
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	2011-12	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
	Total			18	29	25	44	30	48	38	45	54	19	7	11	4	372
	Other	Non-mining Fatality/Injury		-	-	1	2	-	-	-	-	-	-	-	-	1	4
		Total		-	-	1	2	-	-	-	-	-	-	-	-	1	4
	UNKNOWN	Unknown		8	1	-	2	-	-	-	-	-	-	-	-	-	11
		Total		8	1	-	2	-	-	-	-	-	-	-	-	-	11
	N/A Total			29	32	33	51	38	52	44	51	59	26	14	17	7	453
Non-Coal Metalliferous Underground Incidents Total			139	101	111	106	102	108	116	114	94	104	124	120	154	1,493	

Figure 163

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 1999-00 to 2011-12

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	2011-12	Total	
*MIA	*1994 Emergency MIA	*Potential to cause serious injury	11	1	-	-	-	-	-	-	-	-	-	-	-	12	
		*Machinery out of control MIA	10	1	-	-	-	-	-	-	-	-	-	-	-	11	
		*Failure of workings of mine MIA	5	-	-	-	-	-	-	-	-	-	-	-	-	5	
		*Outbreak of fire MIA	4	-	-	-	-	-	-	-	-	-	-	-	-	4	
		*Exposure hazardous materials MIA	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
		*Spillage MIA	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
		Total	33	2	-	-	-	-	-	-	-	-	-	-	-	35	
	*Minor Accident MIA	*Lost Time Injury	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
		*MTI with NO Lost Time	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
		Total	-	-	-	4	-	-	-	-	-	-	-	-	-	-	4
	*Pre Sept 2000 Dangerous Incident MIA	*Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	3	5	4	-	-	-	-	-	-	-	-	-	-	-	12
		*Other	2	3	2	-	-	-	-	-	-	-	-	-	-	-	7
		*Fixed mechanical equipment such as conveyors, crushers, screens	2	-	1	-	-	-	-	-	-	-	-	-	-	-	3
		*Floor	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
*Slopes/grades/ramps where equipment can move in a uncontrolled manner		1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
*Thermal heat sources such as electrical apparatus, engines, pumps, friction points such as bearings, idlers		-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
	*Water - from rain or storms	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
	Total	9	8	9	-	-	-	-	-	-	-	-	-	-	-	26	
*Serious Injury MIA	*Fracture(s)	-	-	4	3	3	-	-	-	-	-	-	-	-	-	10	
	*Burns requiring hospital treatment	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	
	Total	-	-	4	4	3	-	-	-	-	-	-	-	-	-	11	
*Dangerous Incident	*Mobile Plant - general transport/traffic	-	1	3	10	7	10	7	7	3	7	1	-	-	-	49	
	*Electric shock Cl 68(5)(a)	-	1	-	8	7	2	3	6	3	-	-	-	-	-	30	
	*Outbreak of fire due to electrical equipment cl 68 (5)	-	-	-	2	2	5	2	1	-	-	-	-	-	-	12	
	*Misfire - significant Cl 65(1)(c)	-	-	-	2	-	2	3	2	-	-	-	-	-	-	9	
	*Ejection of Flyrock Cl 64(2)	-	-	1	1	2	-	2	-	1	1	-	-	-	-	8	
	*Isolation of energy	-	1	-	2	2	1	1	-	1	-	1	-	-	-	8	
	*Guarding - conveyors	-	-	2	-	-	-	-	-	-	-	3	-	-	-	5	
	*Mobile Plant - fires on equipment (surface)	-	-	2	-	1	1	-	-	-	-	-	-	-	-	4	
	*Slope stability	-	1	-	-	-	-	1	-	1	1	-	-	-	-	4	
	*Explosives - NEC	-	-	-	-	-	-	-	1	2	-	-	-	-	-	3	
	*Fault with an explosive Cl 66(2)	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	
	*Rock falls - (major) Ground Movement	-	-	-	1	1	-	-	-	-	-	-	-	-	-	2	
	*Structural Failure	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	
	*Working at height	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2	
	*Fixed Equipment - fire (surface)	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	
	*Mobile Plant - tyres, rims	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	
	*Unplanned movement due to electricity Cl 68(5)(d)	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	
	Total	-	4	8	28	22	23	20	18	18	2	-	-	-	143		
*Non Spec Acc Ending in Fat/Injury	*Lost Time Injury	20	7	3	-	1	-	1	1	1	1	-	-	-	-	34	
	*SBI/SI	9	2	2	1	3	1	2	9	2	-	-	-	-	-	31	
	*MTI with NO Lost Time	9	1	-	-	-	-	-	-	-	-	-	-	-	-	10	
	*Fatality	2	1	-	-	-	-	-	-	-	-	-	-	-	-	3	
	*Minor injury	-	2	1	-	-	-	-	-	-	1	-	-	-	-	4	
	Total	40	13	6	1	4	1	3	10	4	-	-	-	-	82		
*MIA Total		82	27	27	37	29	24	23	28	22	2	-	-	-	301		

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 1999-00 to 2011-12 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	2011-12	Total	
Explosives	Explosives Regulation 2005	75(1)(a) uncontrolled explosion or fire involving explosives	-	-	-	-	-	-	-	1	-	-	-	-	-	1	
		75(1)(cc) incident involving explosives and involving risk of an uncontrolled explosion or fire or of any such death, injury or damage	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
		Total	-	-	-	-	-	-	-	1	1	-	-	-	-	-	2
Explosives Total			-	-	-	-	-	-	1	1	-	-	-	-	-	2	
MHS	MHSR 2007 CI 145	145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	8	7	10	7	32	
		145(j) loss of control of vehicle or other machinery	-	-	-	-	-	-	-	-	-	6	7	3	8	24	
		145(e) uncontrolled explosion or fire	-	-	-	-	-	-	-	-	-	5	4	8	5	22	
		145(i) collision involving vehicle or other machinery that results in substantial damage, impedes safe operations	-	-	-	-	-	-	-	-	-	3	1	7	7	18	
		145(d)(iii) involving electricity, person receives electric shock from source operating above extra low voltage	-	-	-	-	-	-	-	-	-	5	2	2	4	13	
		145(c)(i) damage to any plant, equipment, building or structure	-	-	-	-	-	-	-	-	-	2	1	6	3	12	
		145(c)(v) unintended activation or movement of vehicles/machinery	-	-	-	-	-	-	-	-	-	2	2	4	4	12	
		145(f) escape of fluid under high pressure that endangers a person	-	-	-	-	-	-	-	-	-	4	3	2	3	12	
		145(d)(i) involving electricity, person suffers injury, receives medical treatment or unable to attend work	-	-	-	-	-	-	-	-	-	1	7	1	1	10	
		145(g) an uncontrolled issue of gas or fluids	-	-	-	-	-	-	-	-	-	-	1	3	4	8	
		145(d)(ii) where a vehicle, machinery or other plant makes contact with an energised high voltage source involving a risk to any person	-	-	-	-	-	-	-	-	-	-	1	3	2	6	
		145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	-	-	-	1	2	3	6	
		145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present	-	-	-	-	-	-	-	-	-	1	1	3	-	5	
		145(l) ejection of fly rock so that it falls outside a blast exclusion zone (being the area below, at or above ground level from which all unauthorised persons are excluded during blasting)	-	-	-	-	-	-	-	-	-	-	-	-	1	3	4
145(p) the burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1		
Total			-	-	-	-	-	-	-	-	-	37	39	55	54	185	

Non-Coal Extractives Surface Incidents by Incident Type and Subtype 1999-00 to 2011-12 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	2011-12	Total	
MHS	MHSR 2007 CI 146(1)	146(1)(e) significant misfire of explosives	-	-	-	-	-	-	-	-	-	1	-	2	2	5	
		146(1)(f) a problem or fault in an explosive product or accessory	-	-	-	-	-	-	-	-	-	-	-	2	-	1	3
		146(1)(d) spill or incident resulting in exposure or potential exposure of person to notifiable or prohibited carcinogenic substance	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	Total	-	-	-	-	-	-	-	-	-	-	-	1	2	2	4	9
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	-	7	10	21	18	56
Total	-	-	-	-	-	-	-	-	-	-	-	7	10	21	18	56	
MHS Total	Total	-	-	-	-	-	-	-	-	-	-	45	51	78	76	250	
N/A	Complaint	Public Complaint	2	7	16	12	7	11	11	10	7	7	11	9	9	119	
		Mine Employee Complaint	-	2	3	2	2	2	2	-	4	1	3	6	4	6	35
		Other	1	1	2	2	2	3	1	-	1	1	1	1	1	1	17
		Total	3	10	21	16	11	16	12	14	9	11	18	14	16	171	
	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	3	116	
		Other	5	9	8	11	9	13	7	9	3	-	1	1	1	77	
		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	-	-	-	-	2	13
		Fixed mechanical equipment such as conveyors, crushers, screens	1	2	-	-	1	1	-	-	2	3	-	-	-	-	10
		High wall/Pit wall	-	1	1	-	-	1	1	-	1	-	-	-	1	-	6
		Explosive Incident not a Dangerous Incident	-	-	-	-	-	-	-	-	-	1	2	-	1	1	5
		Flammable/explosive liquid chemicals such as petrol, diesel, oils, degreasers, solvents	-	2	-	2	-	-	-	-	-	-	-	-	-	1	5
		Dusts that can effect health such as coal, silica	-	-	-	-	-	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, CH4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
		Fines or build up of combustible particles	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
		Flammable gases such as Acetylene, LPG	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
		Hydraulic pressure from pump stations & reticulation or equipment	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
		Lightning strike	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
	Low wall	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	
	Noise greater than 85dBA	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
	Water - from rain or storms	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	
Total	12	33	26	40	30	38	26	26	31	15	8	11	9	305			
Other	Non-mining Fatality/Injury	-	1	-	1	1	-	-	1	-	-	-	-	1	-	5	
	Total	-	1	-	1	1	-	-	1	-	-	-	-	1	-	5	
UNKNOWN	UNKNOWN	5	-	-	3	-	-	-	-	-	-	-	-	-	-	8	
	Total	5	-	-	3	-	-	-	-	-	-	-	-	-	-	8	
N/A Total	Total	20	44	47	60	42	54	38	41	40	26	26	26	25	489		
Non-Coal Extractives Surface Incidents Total			102	71	74	97	71	78	62	70	62	73	77	104	101	1,042	

Figure 164

Non-Coal Extractives Underground Incidents by Incident Type and Subtype 1999-00 to 2011-12

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	2011-12	Total	
*MIA	*Dangerous Incident	*Ejection of Flyrock CI 64(2)	-	-	-	-	-	1	-	-	-	-	-	-	-	1	
		*Electric shock CI 68(5)(a)	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
		*Rock falls - (major) Ground Movement	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
		*Airblast	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
		Total	-	-	-	-	1	1	2	-	-	-	-	-	-	-	4
		*MIA Total	-	-	-	-	1	1	2	-	-	-	-	-	-	-	4
MHS	MHSR 2007 CI 145	145(h) an abnormal inrush of fluid materials	-	-	-	-	-	-	-	-	-	-	1	2	-	3	
		145(j) loss of control of vehicle or other machinery	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2
		145(n) unplanned fall of ground that impedes passage , disrupts production or ventilation or involves failure of ground support where persons could be present	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
		145(p) the burial of machinery such that it cannot be recovered under its own tractive effort	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
		Total	-	-	-	-	-	-	-	-	-	-	-	2	2	3	7
	MHSR 2007 CI 146(1)	146(1)(e) significant misfire of explosives	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Total	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
MHS Total	-	-	-	-	-	-	-	-	-	-	-	1	2	2	3	8	
N/A	Complaint	Mine Employee Complaint	-	-	-	-	-	1	1	-	-	-	-	-	-	-	2
		Other	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
		Total	-	-	-	-	-	2	1	-	-	-	-	-	-	-	3
	High Potential Incident	Mobile mechanical equipment such as trucks, load-haul-dumps,utes,rail,winders	-	-	-	-	-	-	-	1	1	2	-	-	-	-	4
		Roof/backsc	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2
		Electrical energy from apparatus such as cables, transformers, switch gear, connections	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Fall of things (other than roof/wall & rib/sides) such as components, tools, structures	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	
Total	-	-	-	-	-	-	2	3	1	2	-	-	-	-	-	8	
N/A Total	-	-	-	-	-	-	4	4	1	2	-	-	-	-	-	11	
Non-Coal Extractives Underground Incidents Total			-	-	-	-	1	5	6	1	2	1	2	2	3	23	

Figure 165
Non-Coal Other Incidents by Incident Type and Subtype 1999-00 to 2011-12

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	2011-12	Total	
*MIA	*1994 Emergency MIA	*Explosion/ignition dust MIA	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
		Total	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
	*Minor Accident MIA	*MTI with NO Lost Time	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
		Total	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
	*Pre Sept 2000 Dangerous Incident MIA	*Mobile mechanical equipment such as trucks, load-haul-dumps, utes, rail, winders	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
		Total	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
	*Dangerous Incident	*Dangerous Incident	*Mobile Plant - general transport/traffic	-	-	-	1	-	-	-	1	-	-	-	-	-	2
			*Isolation of energy	-	-	-	-	-	-	-	1	-	-	-	-	-	1
			*Rock falls - (major) Ground Movement	-	-	-	-	-	1	-	-	-	-	-	-	-	1
			*Structural Failure	-	-	-	-	1	-	-	-	-	-	-	-	-	1
*Winding systems			-	-	1	-	-	-	-	-	-	-	-	-	-	1	
*Working at height			-	-	-	-	-	-	-	-	-	1	-	-	-	1	
	Total	-	-	1	-	-	-	7									
*Non Spec Acc Ending in Fat/Injury	*SBI/SI	2	-	-	-	2	-	-	-	-	-	-	-	-	4		
	*Lost Time Injury	1	1	-	-	-	-	-	-	-	-	-	-	-	2		
	Total	3	1	-	-	2	-	-	-	-	-	-	-	-	6		
*MIA Total			6	1	1	2	3	1	1	1	1	-	-	-	-	17	
MHS	MHSR 2007 CI 145	145(n) unplanned fall of ground that impedes passage, disrupts production or ventilation or involves failure of ground support where persons could be present	-	-	-	-	-	-	-	-	-	1	2	-	-	3	
		145(k) overturning of vehicle or other machinery	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
		Total	-	-	-	-	-	-	-	-	-	-	1	2	1	-	4
	Non Spec Acc Ending in Fat/Injury	Notifiable Injury/Outcome	-	-	-	-	-	-	-	-	-	1	-	-	-	1	
	Total	-	-	-	-	-	-	-	-	-	1	-	-	-	1		
MHS Total			-	-	-	-	-	-	-	-	-	2	2	1	-	5	
N/A	Complaint	Mine Employee Complaint	-	-	-	-	1	-	-	-	-	-	-	1	-	2	
		Other	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
		Public Complaint	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
		Total	1	1	-	-	1	-	-	-	-	-	-	1	-	4	
	High Potential Incident	Other	-	-	-	-	-	-	-	2	-	1	-	1	-	4	
		Mining equipment such as continuous miners, excavators, drills, shovels	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
	Other	Mobile mechanical equipment such as trucks, load-haul-dumps, utes, rail, winders	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
		Total	-	-	-	1	-	-	-	2	-	1	-	1	-	6	
	UNKNOW	Non-mining Fatality/Injury	1	-	-	-	-	-	-	-	-	-	-	1	-	2	
		Total	1	-	-	-	-	-	-	-	-	-	-	1	-	2	
N/A Total	UNKNOW	UNKNOW	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
	Total	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
N/A Total			3	1	-	1	1	-	2	-	1	-	2	1	1	13	
Non-Coal Other Incidents Total			9	2	1	3	4	1	3	1	2	2	4	2	1	35	

Figure 166
Petroleum (Onshore) Incidents by Incident Type and Subtype 1999-00 to 2011-12

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	2011-12	Total	
POASch	POASch 1992	POASch1992 CI 301(2) death or serious injury	1	1	2	-	1	-	-	3	-	1	3	1	-	13	
		POASch1992 CI 304 potentially hazardous event	-	-	-	-	-	-	-	-	-	-	1	8	4	1	14
		POASch1992 CI 306(1)(c) uncontrolled escape or ignition of petroleum, flammable or combustible material or toxic chemicals causing potentially hazardous situation	-	-	-	-	-	-	-	-	-	-	1	1	1	-	3
	Total	1	1	2	-	1	-	-	3	-	3	12	6	1	30		
Petroleum Incidents Total			1	1	2	-	1	-	3	-	3	12	6	1	30		

Appendix A.2 Hours Worked

Figure 167

NSW Coal Hours Worked by Operation Type 1999-00 to 2011-12

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	10,213,714	7,186,551	17,400,265	9,999,676	4,398,345	14,398,021	20,213,390	11,584,896	31,798,286
2008-09	11,493,880	7,766,499	19,260,379	11,913,213	5,578,636	17,491,849	23,407,093	13,345,135	36,752,228
2009-10	12,050,472	9,854,466	21,904,938	11,989,164	6,232,108	18,221,272	24,039,636	16,086,574	40,126,210
2010-11	14,624,701	11,443,504	26,068,205	11,961,111	6,526,147	18,487,258	26,585,812	17,969,651	44,555,463
2011-12	17,150,700	13,645,540	30,796,240	12,582,058	8,098,756	20,680,814	29,732,758	21,744,296	51,477,054

Figure 168

NSW Metalliferous Hours Worked by Operation Type 1999-00 to 2011-12

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	1,694,092	3,853,769	4,317,927	2,264,033	6,581,960	6,477,604	3,958,125	10,435,729
2009-10	2,107,963	1,896,740	4,004,703	3,991,693	2,772,505	6,764,198	6,099,656	4,669,245	10,768,901
2010-11	2,257,950	2,994,831	5,252,781	3,761,652	4,838,065	8,599,717	6,019,602	7,832,896	13,852,498
2011-12	2,000,904	2,494,158	4,495,062	3,774,937	5,972,625	9,747,562	5,775,841	8,466,783	14,242,624

Figure 169

NSW Extractives Total Hours Worked 1999-00 to 2011-12

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	3,506,167	1,118,521	4,624,688
2009-10	3,108,200	968,946	4,077,146
2010-11	3,149,852	1,018,810	4,168,662
2011-12	3,421,591	1,023,982	4,445,573

Appendix A.3 Fatalities

Figure 170

NSW Coal, Metalliferous & Extractives Fatalities by Sector 1999-99 to 2011-12

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	2011-12	Total
Coal	Surface	-	-	-	-	1	-	-	-	-	-	-	-	-	1
	Underground	3	2	1	-	2	-	-	1	-	3	-	1	-	13
	Total	3	2	1	-	3	-	-	1	-	3	-	1	-	14
Metalliferous	Underground	6	-	-	1	-	-	-	1	-	-	-	-	-	8
	Total	6	-	-	1	-	-	-	1	-	-	-	-	-	8
Extractives	Surface	2	1	-	-	-	1	-	-	-	-	-	-	-	4
	Total	2	1	-	-	-	1	-	4						
Petroleum	Surface	-	-	-	-	-	-	-	-	-	-	1	-	-	1
	Total	-	-	-	-	-	-	-	-	-	-	1	-	-	1
Total		11	3	1	1	3	1	-	2	-	3	1	1	-	27

Figure 171

NSW Coal, Metalliferous & Extractives Fatalities by Operation Type 1999-99 to 2011-12

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	2011-12	Total
Surface	Coal	-	-	-	-	1	-	-	-	-	-	-	-	-	1
	Extractives	2	1	-	-	-	1	-	-	-	-	-	-	-	4
	Petroleum	-	-	-	-	-	-	-	-	-	-	1	-	-	1
	Total	2	1	-	-	1	1	-	-	-	-	1	-	-	6
Underground	Coal	3	2	1	-	2	-	-	1	-	3	-	1	-	13
	Metalliferous	6	-	-	1	-	-	-	1	-	-	-	-	-	8
	Total	9	2	1	1	2	-	-	2	-	3	-	1	-	21
Total		11	3	1	1	3	1	-	2	-	3	1	1	-	27

Appendix A.4 Lost Time Injuries (LTIs)

Figure 172

NSW Coal, Metalliferous & Extractives Lost Time Injuries by Sector 1999-00 to 2011-12

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	2011-12	Total
Coal	Surface	163	158	126	105	103	84	79	120	48	64	71	53	88	1,262
	Underground	455	391	412	346	319	292	304	319	215	237	215	218	182	3,905
	Total	618	549	538	451	422	376	383	439	263	301	286	271	270	5,167
Metalliferous	Surface	12	8	2	3	3	3	7	15	5	8	8	5	7	86
	Underground	59	100	52	60	58	28	25	34	35	27	39	26	20	563
	Total	71	108	54	63	61	31	32	49	40	35	47	31	27	649
Extractives	Surface	25	24	57	61	61	22	27	28	25	56	45	52	47	530
	Total	25	24	57	61	61	22	27	28	25	56	45	52	47	530
Total		714	681	649	575	544	429	442	516	328	392	378	354	344	6,346

Figure 173

NSW Coal, Metalliferous & Extractives Lost Time Injuries by Operation Type 1999-00 to 2011-12

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	2011-12	Total
Surface	Coal	163	158	126	105	103	84	79	120	48	64	71	53	88	1,262
	Metalliferous	12	8	2	3	3	3	7	15	5	8	8	5	7	86
	Extractives	25	24	57	61	61	22	27	28	25	56	45	52	47	530
	Total	200	190	185	169	167	109	113	163	78	128	124	110	142	1,878
Underground	Coal	455	391	412	346	319	292	304	319	215	237	215	218	182	3,905
	Metalliferous	59	100	52	60	58	28	25	34	35	27	39	26	20	563
Total		514	491	464	406	377	320	329	353	250	264	254	244	202	4,468
Total		714	681	649	575	544	429	442	516	328	392	378	354	344	6,346

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

Figure 174

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Sector 2007-08 to 2011-12

Sector	Operation Type	2007-08					2008-09					2009-10					2010-11					2011-12					Total TRI
		FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	
Coal	Surface	-	48	81	96	225	-	64	81	62	207	-	71	80	71	222	-	53	90	84	227	-	88	87	65	240	1,121
	Underground	-	215	591	410	1,216	3	237	538	213	991	-	215	579	120	914	1	218	472	128	819	-	182	453	131	766	4,706
	Total	-	263	672	506	1,441	3	301	619	275	1,198	-	286	659	191	1,136	1	271	562	212	1,046	-	270	540	196	1,006	5,827
Metalliferous	Surface	-	-	-	-	-	8	16	13	37	-	8	20	8	36	-	5	65	18	88	-	7	15	21	43	204	
	Underground	-	-	-	-	-	27	91	111	228	-	39	94	66	199	-	26	102	60	188	-	20	109	91	220	835	
	Total	-	-	-	-	-	35	107	124	265	-	47	114	74	235	-	31	167	78	276	-	27	124	112	263	1,039	
Extractives	Surface	-	-	-	-	-	56	61	68	185	-	45	97	71	213	-	52	78	49	179	-	47	74	61	182	759	
	Total	-	-	-	-	-	56	61	68	185	-	45	97	71	213	-	52	78	49	179	-	47	74	61	182	759	
Total		-	263	672	506	1,441	3	392	787	467	1,649	-	378	870	336	1,584	1	354	807	339	1,501	-	344	738	369	1,451	7,626

Figure 175

NSW Coal, Metalliferous & Extractives Total Recordable Injuries (TRIs) by Operation Type 2007-08 to 2011-12

Sector	Operation Type	2007-08					2008-09					2009-10					2010-11					2011-12					Total TRI
		FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	FI	LTI	RDI	MTI	TRI	
Surface	Coal	-	48	81	96	225	-	64	81	62	207	-	71	80	71	222	-	53	90	84	227	-	88	87	65	240	1,121
	Metalliferous	-	-	-	-	-	-	8	16	13	37	-	8	20	8	36	-	5	65	18	88	-	7	15	21	43	204
	Extractives	-	-	-	-	-	-	56	61	68	185	-	45	97	71	213	-	52	78	49	179	-	47	74	61	182	759
	Total	-	48	81	96	225	-	128	158	143	430	-	124	197	150	471	-	110	233	151	494	-	142	176	147	465	1,620
Underground	Coal	-	215	591	410	1,216	3	237	538	213	991	-	215	579	120	914	1	218	472	128	819	-	182	453	131	766	4,706
	Metalliferous	-	-	-	-	-	-	27	91	111	228	-	39	94	66	199	-	26	102	60	188	-	20	109	91	220	835
	Total	-	215	591	410	1,216	3	264	629	324	1,219	-	254	673	186	1,113	1	244	574	188	1,007	-	202	562	222	996	5,541
Total		-	263	672	506	1,441	3	392	787	467	1,649	-	378	870	336	1,584	1	354	807	339	1,501	-	344	738	369	1,451	7,626

Appendix A.6 Serious Bodily Injuries (SBIs)

Figure 176

Serious Bodily Injuries by Sector 1999-2000 to 2011-12

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	2011-12	Total
Coal	Surface	11	6	9	11	5	9	11	5	8	6	10	10	12	113
	Underground	26	34	27	26	43	25	24	27	18	22	22	18	24	336
	Total	37	40	36	37	48	34	35	32	26	28	32	28	36	449
Metalliferous	Surface	-	3	-	3	5	2	7	6	1	2	2	1	3	35
	Underground	8	8	8	1	7	4	7	11	4	8	3	5	9	83
	Total	8	11	8	4	12	6	14	17	5	10	5	6	12	118
Extractives	Surface	10	3	7	7	7	2	4	10	2	5	3	3	5	68
	Total	10	3	7	7	7	2	4	10	2	5	3	3	5	68
Non-Coal Other	Surface	2	-	-	1	1	1	1	1	1	-	-	-	-	8
	Underground	-	-	-	-	1	-	-	-	-	-	-	-	-	1
	Total	2	-	-	1	2	1	1	1	1	-	-	-	-	9
Petroleum	Surface	1	1	2	-	1	-	-	3	-	1	4	1	-	14
	Total	1	1	2	-	1	-	-	3	-	1	4	1	-	14
Total		58	55	53	49	70	43	54	63	34	44	44	38	53	658

Figure 177

Serious Bodily Injuries by Operation Type 1999-2000 to 2011-12

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	2011-12	Total
Surface	Coal	11	6	9	11	5	9	11	5	8	6	10	10	12	113
	Metalliferous	-	3	-	3	5	2	7	6	1	2	2	1	3	35
	Extractives	10	3	7	7	7	2	4	10	2	5	3	3	5	68
	Non-Coal Other	2	-	-	1	1	1	1	1	1	-	-	-	-	8
	Petroleum	1	1	2	-	1	-	-	3	-	1	4	1	-	14
	Total	24	13	18	22	19	14	23	25	12	14	19	15	20	238
Underground	Coal	26	34	27	26	43	25	24	27	18	22	22	18	24	336
	Metalliferous	8	8	8	1	7	4	7	11	4	8	3	5	9	83
	Non-Coal Other	-	-	-	-	1	-	-	-	-	-	-	-	-	1
	Total	34	42	35	27	51	29	31	38	22	30	25	23	33	420
Total		58	55	53	49	70	43	54	63	34	44	44	38	53	658

Figure 178
Serious Bodily Injuries by Mechanism 1999-2000 to 2011-12

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	2011-12	Total
Falls from the same level (including trips and slips)	7	5	10	11	17	6	9	14	12	7	10	10	18	136
Fall from a height	7	11	8	11	13	4	9	13	7	5	10	8	5	111
Being hit by moving objects	6	8	6	5	7	6	6	12	-	7	4	8	13	88
Being hit by falling objects	7	7	6	5	4	2	6	7	1	3	4	-	2	54
Unspecified mechanism of injury	8	2	1	-	4	-	1	1	4	1	2	3	1	28
Being trapped by stationary and moving object	-	-	1	2	2	2	1	4	2	5	2	2	4	27
Vehicle accident	1	1	2	3	3	3	1	-	2	4	3	2	2	27
Hitting objects with a part of the body	-	-	-	1	1	6	3	2	3	3	1	1	3	24
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 and multiple mechanisms of injury	1	1	-	1	1	1	-	2	1	-	-	-	1	9
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
Hitting stationary objects	1	3	1	-	2	-	-	-	-	-	-	-	1	8
Contact with hot objects	-	-	-	-	-	-	-	-	-	1	2	-	-	3
Exposure to variations in pressure (other than sound)	-	-	1	1	-	-	-	-	-	-	-	1	-	3
Muscular stress while lifting, carrying or putting down objects	-	-	-	-	-	-	-	1	-	-	-	1	1	3
Other muscular stress	-	-	-	1	1	-	1	-	-	-	-	-	-	3
Contact with, or exposure to, biological factors	1	-	-	-	-	1	-	-	-	-	-	-	-	2
Exposure to radiation	1	-	1	-	-	-	-	-	-	-	-	-	-	2
Exposure to sharp sudden sound	-	-	-	-	1	-	-	-	-	-	-	-	-	1
Long term contact with chemical or substance	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Muscular stress while handling objects other than lifting, carrying or putting down	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Muscular stress with no objects being handled	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Total	57	54	51	49	69	43	54	60	34	43	40	37	53	644

Figure 179
Serious Bodily Injuries by Agency 1999-2000 to 2011-12

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	2011-12	Total
Underground environment	10	11	14	5	22	7	11	16	11	3	8	8	12	138
Mobile plant	9	6	8	16	11	18	18	12	7	13	6	7	6	137
Machinery and fixed plant - general	8	13	9	8	10	2	6	7	4	4	1	-	4	76
Other materials, substances or objects	2	-	2	1	2	1	4	4	2	5	9	3	14	49
Outdoor environment	3	1	6	1	4	3	5	5	2	2	2	2	6	42
Powered equipment, tools and appliances	2	4	-	3	7	5	3	2	1	2	5	4	3	41
Human agencies	4	-	2	4	2	1	1	1	2	2	2	4	4	29
Non-powered equipment	1	1	1	1	2	-	2	2	1	5	1	-	1	18
Other	9	2	2	2	3	-	-	-	-	-	-	-	-	18
Road transport	1	2	1	2	1	1	-	4	-	2	3	-	1	18
Crushing, Pressing, Rolling Machinery	1	2	2	2	-	-	-	4	1	1	1	2	1	17
Unspecified agencies	3	1	-	-	1	2	1	-	1	2	1	3	1	16
Chemicals	2	2	2	1	1	2	2	-	-	-	-	-	-	12
Indoor environment	-	-	1	1	2	1	-	3	1	-	1	1	-	11
Unknown	2	5	1	1	1	-	-	-	-	-	-	-	-	10
Other transport	-	2	-	1	-	-	-	-	1	1	-	2	-	7
Non-powered hand tools	-	2	-	-	-	-	1	-	-	1	-	1	-	5
Total	57	54	51	49	69	43	54	60	34	43	40	37	53	644

Figure 180
Serious Bodily Injuries by Nature of Injury 1999-2000 to 2011-12

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	2011-12	Total
Fractures (excluding of vertebral column)	30	31	34	33	46	24	28	45	25	33	34	35	44	442
Burns	12	7	7	4	7	11	13	3	-	2	2	-	-	68
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	2	27
Amputation	2	1	1	2	2	1	1	3	2	4	-	1	5	25
Injection of fluid	1	2	1	2	3	1	1	1	2	1	2	-	1	18
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	-	-	-	-	-	1	7
Haemorrhage - Internal	-	-	-	-	-	1	-	-	-	1	1	-	-	3
Sight - Loss/Impairment	-	1	1	-	-	1	-	-	-	-	-	-	-	3
Superficial injury	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Total	57	54	51	49	69	43	54	60	34	43	40	37	53	644

Figure 181
Serious Bodily Injuries by Bodily Location 1999-2000 to 2011-12

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	2011-12	Total
Arm/Forearm	10	9	10	12	11	11	11	8	4	2	1	6	6	101
Leg	-	8	5	6	9	5	11	11	7	9	8	5	7	91
Ribs	1	5	9	8	10	4	4	6	4	5	5	6	8	75
Ankle	-	3	5	6	7	3	1	6	2	1	5	4	6	49
Hands and fingers	5	3	5	2	7	4	5	4	1	3	2	1	3	45
Wrist	-	1	-	-	-	-	-	7	4	5	5	8	5	35
Multiple locations (more than one part of body)	11	4	3	1	1	1	3	3	-	2	3	-	1	33
Face	2	2	1	-	1	2	2	1	1	3	3	1	5	24
Back - unspecified	2	3	-	1	4	1	2	3	2	-	-	-	1	19
Shoulder-blade	-	-	3	2	4	1	4	1	-	1	1	-	-	17
Shoulder	1	1	1	1	1	-	-	2	4	2	1	-	1	15
Hip	7	4	-	1	1	1	1	-	-	-	-	-	-	14
Skull	-	-	1	1	-	2	1	5	1	-	-	2	-	13
Elbow	-	-	-	-	2	1	4	-	-	-	2	-	3	12
Knee/Knee-cap	-	2	1	2	2	1	1	-	-	-	-	-	2	11
Trunk (other than back and excl internal organ)	7	1	-	-	1	1	-	-	-	1	-	-	-	11
Feet and toes	-	-	1	1	1	-	-	-	1	2	-	1	2	9
Head (other than eye, ear and face)	4	-	-	1	1	-	-	-	-	2	-	-	1	9
Unknown	2	4	1	1	1	-	-	-	-	-	-	-	-	9
Neck	2	-	-	1	-	2	-	-	-	1	-	2	-	8
Eye	2	1	1	-	-	1	1	-	-	1	-	-	-	7
Pelvis	-	-	1	-	-	-	-	1	1	2	1	-	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	-	-	-	-	2	-	1	-	-	-	1	-	-	4
Collar-bone	-	-	1	-	-	-	-	1	-	-	-	-	1	3
Internal organs (located in the trunk)	-	-	-	-	-	-	-	1	-	1	-	-	-	2
Back - upper	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Total	57	54	51	49	69	43	54	60	34	43	40	37	53	644

Figure 182
Serious Bodily Injuries by Age Group 1999-2000 to 2011-12

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	2011-12	Total
<20	5	3	1	4	2	2	2	1	2	1	-	1	1	25
20-29	7	9	7	3	10	9	12	11	7	7	6	8	6	102
30-39	14	10	18	14	14	9	10	17	5	9	11	10	15	156
40-49	14	19	15	15	22	11	19	12	7	12	12	10	12	180
50-59	10	9	7	11	19	10	10	13	9	11	9	8	16	142
60-69	3	1	2	1	2	1	1	2	3	3	2	-	3	24
Unknown	4	3	1	1	-	1	-	4	1	-	-	-	-	15
Total	57	54	51	49	69	43	54	60	34	43	40	37	53	644

Figure 183
Serious Bodily Injuries by Employment Type 1999-2000 to 2011-12

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	2011-12	Total
Employee	45	39	43	33	56	25	37	34	23	26	23	21	36	441
Contractor	9	9	6	15	12	17	17	26	11	17	17	15	17	188
Other	3	6	2	1	1	1	-	-	-	-	-	1	-	15
Total	57	54	51	49	69	43	54	60	34	43	40	37	53	644

Appendix A.7 Notifiable Injury Outcomes

Figure 184

Notifiable Injury Outcomes by Sector mid 2006-07 to 2011-12

Sector	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Coal	>=7 days lost time/alternative duties	193	426	408	399	407	425	2,258
	Hospital inpatient admission	34	75	86	98	78	100	471
	Lost consciousness	3	5	3	6	-	1	18
	Entrapment	-	-	3	1	1	1	6
	Fatality	-	-	3	-	1	-	4
	Total		230	506	503	504	487	527
Non-Coal	Hospital inpatient admission	-	-	15	24	28	28	95
	>=7 days lost time/alternative duties	-	-	9	23	19	23	74
	Lost consciousness	-	-	1	-	-	-	1
	Total	-	-	25	47	47	51	170
Total		230	506	528	551	534	578	2,927

Figure 185

Notifiable Injury Outcomes by Surface/Underground Operation mid 2006-07 to 2011-12

Operation Type	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Surface	>=7 days lost time/alternative duties	28	31	67	77	72	77	352
	Hospital inpatient admission	5	12	26	28	29	43	143
	Lost consciousness	-	1	2	-	-	-	3
	Entrapment	-	-	1	-	1	-	2
	Total	33	44	96	105	102	120	500
Underground	>=7 days lost time/alternative duties	165	395	350	345	354	371	1,980
	Hospital inpatient admission	29	63	75	94	77	85	423
	Lost consciousness	3	4	2	6	-	1	16
	Fatality	-	-	2	1	-	1	4
	Entrapment	-	-	3	-	1	-	4
	Total	197	462	432	446	432	458	2,427
Total		230	506	528	551	534	578	2,927

Figure 186

Notifiable Injury Outcomes by Event Subtype mid 2006-07 to 2011-12

Event Subtype	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Work Environment	>=7 days lost time/alternative duties	118	268	276	296	336	402	1,696
	Hospital inpatient admission	10	42	47	67	69	91	326
	Lost consciousness	1	2	1	4	-	1	9
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	1	-	1	-	2
Total		129	312	325	367	406	494	2,033
Mech Equip Mobile	>=7 days lost time/alternative duties	67	147	125	111	69	35	554
	Hospital inpatient admission	19	28	44	40	27	32	190
	Lost consciousness	1	3	2	2	-	-	8
	Entrapment	-	-	1	-	1	1	3
	Fatality	-	-	2	-	-	-	2
Total		87	178	174	153	97	68	757
Mech Equip Fixed	>=7 days lost time/alternative duties	5	6	9	7	9	9	45
	Hospital inpatient admission	1	2	8	7	6	1	25
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
Total		6	8	17	14	15	10	70
Strata/Ground Control	>=7 days lost time/alternative duties	1	2	4	5	5	2	19
	Hospital inpatient admission	2	-	-	2	-	-	4
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	2	1	-	-	3
	Fatality	-	-	-	-	-	-	-
Total		3	2	6	8	5	2	26
Electrical Energy	>=7 days lost time/alternative duties	-	1	2	2	1	-	6
	Hospital inpatient admission	1	1	2	3	2	4	13
	Lost consciousness	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
Total		1	2	5	5	3	4	20
Hazardous Materials	>=7 days lost time/alternative duties	2	1	-	-	-	-	3
	Hospital inpatient admission	1	1	-	2	1	-	5
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
Total		3	2	-	2	1	-	8
Explosives	>=7 days lost time/alternative duties	-	-	-	1	4	-	5
	Hospital inpatient admission	-	-	-	1	1	-	2
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
Total		-	-	-	2	5	-	7
Gas	>=7 days lost time/alternative duties	-	1	-	-	-	-	1
	Hospital inpatient admission	-	1	-	-	-	-	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
Total		-	2	-	-	-	-	2
Structural Failure	>=7 days lost time/alternative duties	-	-	1	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	1	-	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
Total		1	-	1	-	-	-	2
Self Heating	>=7 days lost time/alternative duties	-	-	-	-	1	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
Total		-	-	-	-	1	-	1
Water	>=7 days lost time/alternative duties	-	-	-	-	1	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
Total		-	-	-	-	1	-	1
Total		230	506	528	551	534	578	2,927

Figure 187

Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2011-12

Mechanism	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Falls from the same level (including trips and slips)	>=7 days lost time/alternative duties	28	46	77	75	76	77	379
	Hospital inpatient admission	1	6	13	12	13	16	61
	Lost consciousness	-	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	29	52	90	88	89	93	441
Other muscular stress	>=7 days lost time/alternative duties	68	106	57	60	48	40	379
	Hospital inpatient admission	7	7	3	6	3	4	30
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	75	113	60	66	51	44	409
Muscular stress while lifting, carrying or putting down objects	>=7 days lost time/alternative duties	8	39	52	69	66	87	321
	Hospital inpatient admission	-	7	4	13	8	8	40
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	8	46	56	82	74	95	361
Being hit by falling objects	>=7 days lost time/alternative duties	11	34	37	37	37	27	183
	Hospital inpatient admission	2	12	17	16	16	15	78
	Lost consciousness	2	1	1	-	-	-	4
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	2	-	-	-	2
	Total	15	47	57	53	53	42	267
Being hit by moving objects	>=7 days lost time/alternative duties	8	29	26	30	25	25	143
	Hospital inpatient admission	6	8	23	15	20	26	98
	Lost consciousness	1	2	1	1	-	-	5
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	1	-	1	-	2
	Total	15	39	51	46	46	51	248
Unspecified mechanism of injury	>=7 days lost time/alternative duties	25	51	36	21	30	31	194
	Hospital inpatient admission	3	5	2	5	9	12	36
	Lost consciousness	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	28	57	38	26	39	43	231
Hitting objects with a part of the body	>=7 days lost time/alternative duties	11	25	30	25	40	35	166
	Hospital inpatient admission	-	5	7	9	8	10	39
	Lost consciousness	-	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	11	30	37	35	48	45	206
Muscular stress with no objects being handled	>=7 days lost time/alternative duties	9	27	26	26	31	52	171
	Hospital inpatient admission	2	4	1	1	1	2	11
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	1	-	1
	Fatality	-	-	-	-	-	-	-
	Total	11	31	27	27	33	54	183
Muscular stress while handling objects other than lifting, carrying or putting down	>=7 days lost time/alternative duties	2	15	15	14	28	28	102
	Hospital inpatient admission	-	2	-	3	3	2	10
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	2	17	15	17	31	30	112

Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2011-12 continued

Mechanism	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Being trapped by stationary and moving object	>=7 days lost time/alternative duties	1	8	9	22	8	10	58
	Hospital inpatient admission	3	5	5	14	7	10	44
	Lost consciousness	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	4	13	15	36	15	20	103
Fall from a height	>=7 days lost time/alternative duties	7	6	6	14	10	7	50
	Hospital inpatient admission	1	1	3	10	5	6	26
	Lost consciousness	-	-	-	1	-	1	2
	Entrapment	-	-	-	-	-	1	1
	Fatality	-	-	-	-	-	-	-
	Total	8	7	9	25	15	15	79
Hitting stationary objects	>=7 days lost time/alternative duties	6	9	12	10	5	4	46
	Hospital inpatient admission	-	2	4	2	1	3	12
	Lost consciousness	-	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	6	11	16	13	6	7	59
Hitting moving objects	>=7 days lost time/alternative duties	-	10	12	3	5	3	33
	Hospital inpatient admission	-	2	3	3	-	1	9
	Lost consciousness	-	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	12	15	7	5	4	43
Vehicle accident	>=7 days lost time/alternative duties	3	6	6	2	2	5	24
	Hospital inpatient admission	2	2	4	1	2	3	14
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	5	8	10	3	4	8	38
Other and multiple mechanisms of injury	>=7 days lost time/alternative duties	1	1	3	-	2	7	14
	Hospital inpatient admission	1	3	2	-	2	5	13
	Lost consciousness	-	1	-	-	-	-	1
	Entrapment	-	-	1	-	-	-	1
	Fatality	-	-	-	-	-	-	-
	Total	2	5	6	-	4	12	29
Rep move't with low muscle loading	>=7 days lost time/alternative duties	1	3	3	6	5	4	22
	Hospital inpatient admission	1	-	2	2	1	1	7
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	2	3	5	8	6	5	29
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	-	-	-	-	-	-	-
	Total	1	2	7	10	6	-	26
Contact with electricity	>=7 days lost time/alternative duties	-	1	2	1	1	-	5
	Hospital inpatient admission	1	1	3	3	2	3	13
	Lost consciousness	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	2	6	4	3	3	19

Notifiable Injury Outcomes by Mechanism mid 2006-07 to 2011-12 continued

Mechanism	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Contact with hot objects	>=7 days lost time/alternative duties	-	-	1	2	1	3	7
	Hospital inpatient admission	-	1	-	2	1	1	5
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	1	1	4	2	4	12
Other contact with chemical or substance (includes insect and spider bites and stings)	>=7 days lost time/alternative duties	1	4	-	-	2	2	9
	Hospital inpatient admission	1	-	1	-	-	-	2
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	2	4	1	-	2	2	11
Slide or cave-in	>=7 days lost time/alternative duties	1	-	2	-	-	-	3
	Hospital inpatient admission	2	-	-	-	-	-	2
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	2	1	-	-	3
	Fatality	-	-	-	-	-	-	-
	Total	3	-	4	1	-	-	8
Contact with exposure to heat and cold	>=7 days lost time/alternative duties	1	-	1	-	-	1	3
	Hospital inpatient admission	-	1	1	-	-	-	2
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	1	2	-	-	1	5
Exposure to mechanical vibration	>=7 days lost time/alternative duties	-	3	-	-	-	-	3
	Hospital inpatient admission	1	-	-	-	-	-	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	3	-	-	-	-	4
Exposure to mental stress factors	>=7 days lost time/alternative duties	-	-	-	-	2	-	2
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	-	-	2	-	2
Contact with, or exposure to, biological factors	>=7 days lost time/alternative duties	-	1	-	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	1	-	-	-	-	1
Long term contact with chemical or substance	>=7 days lost time/alternative duties	-	1	-	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	1	-	-	-	-	1
Total		230	506	528	551	534	578	2,927

Figure 188
Notifiable Injury Outcomes by Agency mid 2006-07 to 2011-12

Agency	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Underground environment	>=7 days lost time/alternative duties	74	169	157	125	138	171	834
	Hospital inpatient admission	10	26	18	17	21	26	118
	Lost consciousness	1	2	-	4	-	1	8
	Entrapment	-	-	2	-	-	1	3
	Fatality	-	-	-	-	1	-	1
	Total		85	197	177	146	160	199
Mobile plant	>=7 days lost time/alternative duties	42	94	101	95	63	36	431
	Hospital inpatient admission	11	20	31	23	12	22	119
	Lost consciousness	-	-	1	1	-	-	2
	Entrapment	-	-	-	-	1	-	1
	Fatality	-	-	1	-	-	-	1
	Total		53	114	134	119	76	58
Other materials, substances or objects	>=7 days lost time/alternative duties	13	50	53	83	108	102	409
	Hospital inpatient admission	1	8	15	30	24	16	94
	Lost consciousness	1	2	1	-	-	-	4
	Entrapment	-	-	-	1	-	-	1
	Fatality	-	-	-	-	-	-	-
	Total		15	60	69	114	132	118
Powered equipment, tools and appliances	>=7 days lost time/alternative duties	5	9	11	13	21	23	82
	Hospital inpatient admission	3	3	6	16	9	21	58
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	1	-	-	-	1
	Total		8	12	18	29	30	44
Unspecified agencies	>=7 days lost time/alternative duties	17	14	19	21	14	22	107
	Hospital inpatient admission	-	1	2	4	4	12	23
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total		17	15	21	25	18	34
Machinery and fixed plant - general	>=7 days lost time/alternative duties	3	15	13	15	15	15	76
	Hospital inpatient admission	1	3	9	8	8	9	38
	Lost consciousness	-	1	1	-	-	-	2
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	1	-	-	-	1
	Total		4	19	24	23	23	24
Human Agencies	>=7 days lost time/alternative duties	11	18	10	13	14	26	92
	Hospital inpatient admission	1	1	2	3	7	2	16
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total		12	19	12	16	21	28
Non-powered equipment	>=7 days lost time/alternative duties	4	8	14	23	18	10	77
	Hospital inpatient admission	-	3	5	8	9	4	29
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total		4	11	19	31	27	14
Outdoor environment	>=7 days lost time/alternative duties	10	12	14	10	10	20	76
	Hospital inpatient admission	-	4	2	4	3	4	17
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	1	-	-	-	1
	Fatality	-	-	-	-	-	-	-
	Total		10	16	17	14	13	24

Notifiable Injury Outcomes by Agency mid 2006-07 to 2011-12 continued

Agency	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Non-powered hand tools	>=7 days lost time/alternative duties	2	6	5	7	12	7	39
	Hospital inpatient admission	-	1	5	2	2	4	14
	Lost consciousness	1	-	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	3	7	10	9	14	11	54
Road transport	>=7 days lost time/alternative duties	5	14	6	8	4	7	44
	Hospital inpatient admission	2	-	1	3	1	1	8
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	7	14	7	11	5	8	52
Crushing, Pressing, Rolling Machinery	>=7 days lost time/alternative duties	1	4	3	4	2	2	16
	Hospital inpatient admission	3	2	4	2	2	4	17
	Lost consciousness	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	4	6	8	6	4	6	34
Indoor environment	>=7 days lost time/alternative duties	3	5	4	2	3	2	19
	Hospital inpatient admission	1	-	1	-	3	1	6
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	4	5	5	2	6	3	25
Other transport	>=7 days lost time/alternative duties	1	3	5	2	4	5	20
	Hospital inpatient admission	-	1	-	-	1	1	3
	Lost consciousness	-	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	4	5	3	5	6	24
Non-physical agencies	>=7 days lost time/alternative duties	1	2	2	1	-	-	6
	Hospital inpatient admission	-	1	-	-	-	1	2
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	3	2	1	-	1	8
Chemicals	>=7 days lost time/alternative duties	1	2	-	-	-	-	3
	Hospital inpatient admission	1	1	-	1	-	-	3
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	2	3	-	1	-	-	6
Biological agencies	>=7 days lost time/alternative duties	-	1	-	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	1	-	-	-	-	1
Live Animals	>=7 days lost time/alternative duties	-	-	-	-	-	-	-
	Hospital inpatient admission	-	-	-	1	-	-	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	-	1	-	-	1
Total	230	506	528	551	534	578	2,927	

Figure 189

Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2011-12

Nature of Injury	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Sprain and strains of joints and adjacent muscles (include acute trauma sprains and strains only)	>=7 days lost time/alternative duties	126	281	270	255	270	264	1,466
	Hospital inpatient admission	8	19	20	33	26	26	132
	Lost consciousness	-	1	-	1	-	-	2
	Entrapment	-	-	-	1	1	-	2
	Fatality	-	-	-	-	-	-	-
	Total		134	301	290	290	297	290
Fractures (excluding of vertebral column)	>=7 days lost time/alternative duties	4	22	37	56	44	49	212
	Hospital inpatient admission	1	15	25	31	25	32	129
	Lost consciousness	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	2	-	-	-	2
	Total		5	37	65	87	69	81
Open wound not involving traumatic amputation	>=7 days lost time/alternative duties	1	19	35	41	36	30	162
	Hospital inpatient admission	2	8	18	20	20	18	86
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total		3	27	53	61	56	48
Contusion with intact skin surface and crushing injury, excluding those with fracture	>=7 days lost time/alternative duties	3	26	15	33	30	34	141
	Hospital inpatient admission	3	10	9	8	9	14	53
	Lost consciousness	-	1	-	-	-	-	1
	Entrapment	-	-	1	-	-	1	2
	Fatality	-	-	-	-	-	-	-
	Total		6	37	25	41	39	49
Superficial Injury	>=7 days lost time/alternative duties	22	41	31	15	11	20	140
	Hospital inpatient admission	3	7	7	10	6	4	37
	Lost consciousness	3	-	2	1	-	-	6
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total		28	48	40	26	17	24
Other and unspecified injuries	>=7 days lost time/alternative duties	18	15	4	3	9	10	59
	Hospital inpatient admission	3	3	2	4	5	10	27
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total		21	18	6	7	14	20
Disorders of muscle, tendons and other soft tissues (includes synovitis, tenosynovitis, bursitis)	>=7 days lost time/alternative duties	6	5	3	2	3	15	34
	Hospital inpatient admission	4	1	-	-	-	4	9
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total		10	6	3	2	3	19
Amputation	>=7 days lost time/alternative duties	-	1	3	-	4	6	14
	Hospital inpatient admission	4	3	6	1	3	9	26
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total		4	4	9	1	7	15
Burns	>=7 days lost time/alternative duties	2	-	5	3	2	3	15
	Hospital inpatient admission	1	2	2	4	3	1	13
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total		3	2	7	7	5	4

Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2011-12 continued

Nature of Injury	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Hernia	>=7 days lost time/alternative duties	2	-	3	3	3	6	17
	Hospital inpatient admission	1	2	2	2	2	2	11
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	3	2	5	5	5	8	28
Dislocations	>=7 days lost time/alternative duties	3	4	2	-	6	4	19
	Hospital inpatient admission	-	1	-	1	1	-	3
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	3	5	2	1	7	4	22
Intracranial injury, including concussion	>=7 days lost time/alternative duties	-	1	-	2	1	-	4
	Hospital inpatient admission	-	-	1	-	-	-	1
	Lost consciousness	-	2	-	4	-	1	7
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	1	-	-	-	1
	Total	-	3	2	6	1	1	13
Electrocution, electric shock (excl serious electrical burn, lightning, static)	>=7 days lost time/alternative duties	-	1	-	-	1	-	2
	Hospital inpatient admission	1	-	3	1	2	2	9
	Lost consciousness	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	1	4	1	3	2	12
Foreign body on external eye, in ear or nose or in respiratory, digestive or reproductive systems (include choking)	>=7 days lost time/alternative duties	2	1	1	-	1	3	8
	Hospital inpatient admission	1	1	-	2	-	-	4
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	3	2	1	2	1	3	12
Multiple injuries (only to be used where no principal injury can be identified)	>=7 days lost time/alternative duties	-	1	1	1	2	1	6
	Hospital inpatient admission	1	-	2	1	-	-	4
	Lost consciousness	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	1	-	1
	Total	1	2	3	2	3	1	12
Mental disorders	>=7 days lost time/alternative duties	-	-	6	1	1	-	8
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	2	-	-	-	2
	Fatality	-	-	-	-	-	-	-
	Total	-	-	8	1	1	-	10
Fracture of vertebral column with or without mention of spinal cord lesion	>=7 days lost time/alternative duties	-	2	-	1	-	1	4
	Hospital inpatient admission	-	2	-	-	1	1	4
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	4	-	1	1	2	8
Eye disorders (non-traumatic)	>=7 days lost time/alternative duties	2	-	1	-	2	-	5
	Hospital inpatient admission	-	-	1	-	1	-	2
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	2	-	2	-	3	-	7

Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2011-12 continued

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

Notifiable Injury Outcomes by Nature of Injury mid 2006-07 to 2011-12 continued

Nature of Injury	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Effects of weather (incl lightning, static), exposure, air pressure and other external causes, not elsewhere classified (includes bends, drowning, electrocution, electric shock)	>=7 days lost time/alternative duties	1	-	-	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	-	-	-	-	-	-
Infectious and parasitic diseases	>=7 days lost time/alternative duties	-	-	-	-	-	-	-
	Hospital inpatient admission	-	-	-	-	1	-	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	-	-	1	-	-
Other diseases of the musculoskeletal system and connective tissue	>=7 days lost time/alternative duties	-	-	-	1	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	-	1	-	-	-
Sight - Loss/Impairment	>=7 days lost time/alternative duties	-	1	-	-	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	1	-	-	-	-	-
Total	230	506	528	551	534	578	2,927	

Figure 190

Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2011-12

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Hands and fingers	>=7 days lost time/alternative duties	15	73	61	70	69	71	359
	Hospital inpatient admission	6	29	33	38	27	50	183
	Lost consciousness	1	-	1	-	-	-	2
	Entrapment	-	-	-	-	1	-	1
	Fatality	-	-	-	-	-	-	-
	Total	22	102	95	108	97	121	545
Knee/Knee-cap	>=7 days lost time/alternative duties	36	61	49	45	63	59	313
	Hospital inpatient admission	2	8	6	4	10	11	-
	Lost consciousness	-	-	-	1	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	38	69	55	50	73	70	355
Shoulder	>=7 days lost time/alternative duties	16	42	41	32	42	41	214
	Hospital inpatient admission	3	7	4	15	6	6	41
	Lost consciousness	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	19	50	45	47	48	47	256
Back - unspecified	>=7 days lost time/alternative duties	45	72	65	16	12	16	226
	Hospital inpatient admission	-	2	5	1	-	1	9
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	45	74	70	17	12	17	235
Back - lower	>=7 days lost time/alternative duties	-	-	22	61	56	60	199
	Hospital inpatient admission	-	-	-	7	4	3	14
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	22	68	60	63	213
Ankle	>=7 days lost time/alternative duties	15	38	22	29	26	37	167
	Hospital inpatient admission	1	-	2	4	5	6	18
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	16	38	24	33	31	43	185
Feet and toes	>=7 days lost time/alternative duties	5	23	22	26	17	19	112
	Hospital inpatient admission	4	5	9	4	4	8	34
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	1	-	-	-	1
	Total	9	28	32	30	21	27	147
Neck	>=7 days lost time/alternative duties	9	29	23	23	22	16	122
	Hospital inpatient admission	-	2	1	7	5	-	15
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	9	31	24	30	27	16	137

Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2011-12 continued

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2011-12	2011-12	Total
Multiple locations (more than one part of body)	>=7 days lost time/alternative duties	3	13	18	25	25	20	104
	Hospital inpatient admission	-	-	3	10	2	8	23
	Lost consciousness	-	1	-	-	-	-	1
	Entrapment	-	-	-	-	-	1	1
	Fatality	-	-	-	-	-	-	-
	Total	3	14	21	35	27	29	129
Leg	>=7 days lost time/alternative duties	7	20	19	14	12	12	84
	Hospital inpatient admission	3	4	8	6	8	6	35
	Lost consciousness	1	-	-	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	11	24	27	20	20	18	120
Arm/Forearm	>=7 days lost time/alternative duties	8	8	10	7	15	21	69
	Hospital inpatient admission	4	4	7	1	10	4	30
	Lost consciousness	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	12	12	18	8	25	25	100
Wrist	>=7 days lost time/alternative duties	6	5	10	12	14	9	56
	Hospital inpatient admission	1	1	1	3	3	3	12
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	7	6	11	15	17	12	68
Head (other than eye, ear and face)	>=7 days lost time/alternative duties	4	5	6	7	4	1	27
	Hospital inpatient admission	1	-	2	-	2	3	8
	Lost consciousness	1	3	1	5	-	1	11
	Entrapment	-	-	2	-	-	-	2
	Fatality	-	-	1	-	-	-	1
	Total	6	8	12	12	6	5	49
Elbow	>=7 days lost time/alternative duties	2	5	4	4	15	11	41
	Hospital inpatient admission	1	1	2	2	1	-	7
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	3	6	6	6	16	11	48
Trunk (other than back and excluding internal organ)	>=7 days lost time/alternative duties	7	4	7	4	5	6	33
	Hospital inpatient admission	4	2	3	2	2	1	14
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	1	-	-	-	1
	Fatality	-	-	-	-	-	-	-
	Total	11	6	11	6	7	7	48
Ribs	>=7 days lost time/alternative duties	-	5	6	11	4	8	34
	Hospital inpatient admission	-	1	1	1	2	3	8
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	6	7	12	6	11	42

Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2011-12 continued

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2011-12	2011-12	Total
Face	>=7 days lost time/alternative duties	3	3	4	5	3	7	25
	Hospital inpatient admission	1	3	2	4	2	3	15
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	4	6	6	9	5	10	40
Abdominal Muscles and Tendons	>=7 days lost time/alternative duties	-	-	1	11	5	9	26
	Hospital inpatient admission	-	-	-	3	2	4	9
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	1	14	7	13	35
General and unspecified locations	>=7 days lost time/alternative duties	2	-	10	1	4	2	19
	Hospital inpatient admission	-	3	2	3	1	3	12
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	1	-	1
	Total	2	3	12	4	6	5	32
Thigh	>=7 days lost time/alternative duties	1	5	4	2	1	7	20
	Hospital inpatient admission	-	-	2	1	5	1	9
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	5	6	3	6	8	29
Eye	>=7 days lost time/alternative duties	4	4	5	-	2	5	20
	Hospital inpatient admission	2	-	3	1	2	-	8
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	6	4	8	1	4	5	28
Hip	>=7 days lost time/alternative duties	2	5	3	7	3	1	21
	Hospital inpatient admission	-	1	1	1	-	1	4
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	1	-	-	1
	Fatality	-	-	-	-	-	-	-
	Total	2	6	4	9	3	2	26
Pelvis	>=7 days lost time/alternative duties	1	-	1	2	-	2	6
	Hospital inpatient admission	-	1	1	2	-	1	5
	Lost consciousness	-	-	1	-	-	-	1
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	1	1	3	4	-	3	12
Shoulder-blade	>=7 days lost time/alternative duties	2	1	2	2	-	1	8
	Hospital inpatient admission	1	-	-	-	1	-	2
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	3	1	2	2	1	1	10

Notifiable Injury Outcomes by Bodily Location mid 2006-07 to 2011-12 continued

Bodily Location	Outcome	2006-07	2007-08	2008-09	2009-10	2011-12	2011-12	Total
Back - other and multiple	>=7 days lost time/alternative duties	-	-	1	1	1	3	6
	Hospital inpatient admission	-	-	-	-	-	1	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	1	1	1	4	7
Back - upper	>=7 days lost time/alternative duties	-	-	-	2	2	3	7
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	-	2	2	3	7
Internal organs (located in the trunk)	>=7 days lost time/alternative duties	-	2	1	-	-	-	3
	Hospital inpatient admission	-	-	2	1	-	1	4
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	2	3	1	-	1	7
Skull	>=7 days lost time/alternative duties	-	-	-	-	3	-	3
	Hospital inpatient admission	-	1	-	-	2	-	3
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	1	-	-	-	1
	Total	-	1	1	-	5	-	7
Ear	>=7 days lost time/alternative duties	-	2	-	1	1	-	4
	Hospital inpatient admission	-	-	1	-	-	-	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	2	1	1	1	-	5
Collar-bone	>=7 days lost time/alternative duties	-	1	-	-	-	1	2
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	1	-	-	-	1	2
Jaw	>=7 days lost time/alternative duties	-	-	-	1	-	-	1
	Hospital inpatient admission	-	-	-	1	-	-	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	-	2	-	-	2
Respiratory system	>=7 days lost time/alternative duties	-	-	-	1	-	-	1
	Hospital inpatient admission	-	-	-	-	-	-	-
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	-	-	1	-	-	1
Total	230	506	528	551	534	578	2,927	

Figure 191
Notifiable Injury Outcomes by Age Group mid 2006-07 to 2011-12

Age Group	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
<20	>=7 days lost time/alternative duties	-	5	4	4	11	5	29
	Hospital inpatient admission	-	-	1	2	6	2	11
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	5	5	6	17	7	40
20-29	>=7 days lost time/alternative duties	24	54	57	69	58	75	337
	Hospital inpatient admission	3	18	18	25	17	27	108
	Lost consciousness	-	1	2	1	-	-	4
	Entrapment	-	-	2	-	-	-	2
	Fatality	-	-	-	-	-	-	-
	Total	27	73	79	95	75	102	451
30-39	>=7 days lost time/alternative duties	39	100	103	113	98	117	570
	Hospital inpatient admission	9	13	32	30	31	30	145
	Lost consciousness	-	1	1	1	-	1	4
	Entrapment	-	-	1	1	-	1	3
	Fatality	-	-	1	-	-	-	1
	Total	48	114	138	145	129	149	723
40-49	>=7 days lost time/alternative duties	60	122	110	114	128	98	632
	Hospital inpatient admission	12	18	24	29	27	32	142
	Lost consciousness	1	2	1	3	-	-	7
	Entrapment	-	-	-	-	1	-	1
	Fatality	-	-	1	-	-	-	1
	Total	73	142	136	146	156	130	783
50-59	>=7 days lost time/alternative duties	65	130	130	104	116	119	664
	Hospital inpatient admission	8	23	21	31	23	26	132
	Lost consciousness	2	1	-	1	-	-	4
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	1	-	1	-	2
	Total	75	154	152	136	140	145	802
60-69	>=7 days lost time/alternative duties	3	15	13	18	15	33	97
	Hospital inpatient admission	2	2	5	4	2	10	25
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	5	17	18	22	17	43	122
>=70	>=7 days lost time/alternative duties	-	-	-	-	-	1	1
	Hospital inpatient admission	-	1	-	-	-	1	2
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	-	1	-	-	-	2	3
Unknown	>=7 days lost time/alternative duties	2	-	-	-	-	-	2
	Hospital inpatient admission	-	-	-	1	-	-	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total	2	-	-	1	-	-	3
Total	230	506	528	551	534	578	2,927	

Figure 192

Notifiable Injury Outcomes by Employment Type mid 2006-07 to 2011-12

Employment Type	Outcome	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Employee	>=7 days lost time/alternative duties	169	367	356	345	348	383	1,968
	Hospital inpatient admission	28	58	74	81	73	85	399
	Lost consciousness	2	4	4	5	-	1	16
	Entrapment	-	-	2	1	1	-	4
	Fatality	-	-	2	-	1	-	3
	Total		199	429	438	432	423	469
Contractor	>=7 days lost time/alternative duties	24	59	61	77	78	65	364
	Hospital inpatient admission	6	17	27	41	32	43	166
	Lost consciousness	1	1	-	1	-	-	3
	Entrapment	-	-	1	-	-	1	2
	Fatality	-	-	1	-	-	-	1
	Total		31	77	90	119	110	109
Other	>=7 days lost time/alternative duties	-	-	-	-	-	-	-
	Hospital inpatient admission	-	-	-	-	1	-	1
	Lost consciousness	-	-	-	-	-	-	-
	Entrapment	-	-	-	-	-	-	-
	Fatality	-	-	-	-	-	-	-
	Total		-	-	-	-	1	-
Total		230	506	528	551	534	578	2,927

Appendix A.8 Assessments

Figure 193

Coal Surface Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	144	152	135	104	86	112	157	168	196	189	250	253	191	2,137
Audit	18	20	10	12	19	11	69	45	35	50	106	29	8	432
Management Plans (Safety)	165	12	3	9	12	10	14	29	11	26	27	58	8	384
Investigation	-	5	3	1	5	1	7	4	6	6	3	6	50	97
Equipment	-	-	-	-	-	7	4	3	2	4	-	-	-	20
Airborne Dust	-	-	-	1	6	3	1	-	-	1	-	-	-	12
Verification	5	-	-	-	-	-	-	-	-	-	-	-	-	5
Resource Recovery (Safety)	-	-	-	-	-	-	-	-	-	-	1	-	-	1
Total	332	189	151	127	128	144	252	249	250	276	387	346	257	3,088

Figure 194

Coal Underground Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	376	321	269	206	196	298	360	232	266	275	269	248	239	3,555
Explosion Suppression	204	223	161	177	143	105	90	91	116	103	159	156	120	1,848
Audit	48	98	146	171	88	32	155	98	87	137	99	42	28	1,229
Management Plans (Safety)	254	39	9	30	29	44	82	103	32	28	30	21	21	722
Investigation	4	9	6	3	13	6	10	46	58	34	5	10	24	228
Airborne Dust	1	2	1	5	41	31	-	2	4	2	1	-	1	91
Equipment	-	-	-	-	-	17	5	11	3	7	1	6	1	51
Verification	4	-	2	1	-	-	1	-	-	-	-	1	1	10
Resource Recovery (Safety)	-	-	-	-	-	1	1	-	-	-	-	-	-	2
Closure	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Seminar/Workshop	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Total	891	692	594	593	510	535	704	584	566	586	564	484	435	7,738

Figure 195

Non-Coal Metalliferous Surface Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	23	31	49	51	45	73	45	41	43	44	57	44	59	605
Investigation	6	2	15	4	8	13	11	13	6	8	12	10	3	111
Audit	1	1	3	1	-	3	12	1	5	8	8	5	2	50
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	4	25
Equipment	-	-	-	-	-	-	-	-	-	-	1	2	1	4
Resource Recovery (Safety)	-	-	-	-	-	3	-	-	-	-	-	-	-	3
Closure	1	-	-	-	-	-	-	-	-	-	-	-	-	1
Total	36	35	71	63	56	101	73	57	60	63	81	65	69	830

Figure 196

Non-Coal Metalliferous Underground Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	62	58	79	74	68	91	89	107	107	99	117	89	106	1,146
Investigation	10	15	18	17	10	10	5	30	22	13	28	20	23	221
Audit	4	5	5	9	9	3	12	15	25	10	21	19	7	144
Verification	2	2	9	2	3	2	3	12	6	2	2	2	-	47
Management Plans (Safety)	3	-	1	2	3	4	2	2	7	2	7	4	8	45
Equipment	-	-	-	-	-	2	1	4	-	-	9	7	2	25
Total	81	80	112	104	93	112	112	170	167	126	184	141	146	1,628

Figure 197

Non-Coal Extractives Surface Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	456	463	544	578	475	554	577	655	702	723	712	717	769	7,925
Audit	2	7	14	8	57	49	34	44	61	84	148	85	38	631
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	4	178
Investigation	13	10	10	10	13	12	22	13	13	10	6	6	13	151
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
Total	606	511	589	622	558	644	668	729	787	842	917	842	824	9,139

Figure 198

Non-Coal Extractives Underground Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	1	1	5	5	7	8	7	9	14	5	8	11	5	86
Audit	-	-	-	-	-	-	-	2	2	2	1	1	-	8
Investigation	-	-	-	-	1	1	1	1	-	-	1	-	1	6
Management Plans (Safety)	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Total	1	1	5	5	8	9	9	12	16	7	10	12	6	101

Figure 199

Non-Coal Other Surface Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	12	6	5	3	1	1	5	26	5	8	12	19	15	118
Audit	1	-	-	-	-	-	-	1	1	-	-	1	-	4
Investigation	-	2	-	1	-	-	-	-	-	-	-	-	-	3
Verification	1	-	-	-	-	-	-	-	-	1	-	-	-	2
Total	14	8	5	4	1	1	5	27	6	9	12	20	15	127

Figure 200

Non-Coal Other Underground Assessments by Event Subtype 1999-00 to 2011-12

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	2011-12	Total
Inspection (Mine Safety)	6	3	15	9	19	9	8	1	19	4	9	9	11	122
Audit	1	3	3	13	3	-	-	-	1	-	-	-	-	24
Equipment	-	-	-	-	-	2	-	-	-	-	2	-	-	4
Management Plans (Safety)	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Total	7	6	19	22	22	11	8	1	20	4	11	9	11	151

Appendix A.9 Enforcement and Advice Notices

Figure 201

Coal Surface and Underground Enforcement and Advice Notices by Notice Category and Type
1999-00 to 2011-12

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	2011-12	Total	
Coal Surface	Advice/Improvement	CMRA S 61	39	34	28	12	9	32	25	29							208
		CMHSA S 150								46	96	64	143	303	181		833
		OHSA S 91							1	5	10	5	25	5	4		55
		WHSa S 191														7	7
	Total		39	34	28	12	9	32	26	80	106	69	168	308	192		1,103
	Prohibition	CMRA S 63	13	10	18	7	2	18	9	-							77
		CMHSR CI 51								6	11	29	34	15	27		122
		OHSA S 93								-	-	2	-	3	4	2	11
		WHSa S 195														3	3
	Total		13	10	18	7	2	18	9	6	13	29	37	19	32		213
	Investigation	OHSA S 62								1	1	-	1	6	6		15
		OHSA S 70								-	-	-	-	1	-		1
		OHSA S 72								-	-	-	-	-	-		-
		OHSA S 89								-	-	1	-	-	1		2
		WHSa S 177															-
		WHSa S 178															-
		WHSa S 198															-
	Total		-	-	-	-	-	-	-	1	1	1	1	7	7		18
Total		52	44	46	19	11	50	35	87	120	99	206	334	231		1,334	
Coal Underground	Advice/Improvement	CMRA S 61	272	230	154	125	122	139	92	94							1,228
		CMHSA S 150								88	147	190	331	395	320		1,471
		OHSA S 91							4	27	15	17	24	15	5		107
		WHSa S 191														2	2
	Total		272	230	154	125	122	139	96	209	162	207	355	410	327		2,808
	Prohibition	CMRA S 63	24	29	18	31	14	27	17	15							175
		CMHSR CI 51								10	49	51	55	45	40		250
		OHSA S 93								8	7	4	4	3	6		32
		WHSa S 195														2	2
	Total		24	29	18	31	14	27	17	33	56	55	59	48	48		459
	Investigation	OHSA S 62								-	-	2	1	5	2		10
		OHSA S 70								-	-	-	-	-	-		-
		OHSA S 72								-	-	-	-	-	-		-
		OHSA S 89								7	1	6	1	1	4		20
		WHSa S 177														1	1
		WHSa S 178														2	2
	Total		-	-	-	-	-	-	-	7	1	8	2	6	10		34
	Total		296	259	172	156	136	166	113	249	219	270	416	464	385		3,301
Total		348	303	218	175	147	216	148	336	339	369	622	798	616		4,635	

Figure 202

Non-Coal Metalliferous Surface and Underground Enforcement and Advice Notices by Notice Category and Type 1999-00 to 2011-12

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	2011-12	Total	
Metalliferous Surface	Advice/Improvement	MIA S 36B	-	2	5	8	-	9	5	7	20	2				58	
		MHSA S 131										6	21	24	21	72	
		OHSA S 91							-	1	1	1	-	2	-	5	
		WHS S 191														-	
		Total	-	2	5	8	-	9	5	8	21	9	21	26	21	135	
	Prohibition	MIA S 37	1	-	1	-	-	-	1	-	-	-	-	-	-	-	3
		MIA S 37A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		MHSR CI 158															-
		OHSA S 93							1	4	2	-	-	2	-	9	
		WHS S 195														-	
	Total	1	-	1	-	-	-	2	4	2	-	-	2	-	12		
	Investigation	OHSA S 62									-	2	-	-	-	-	2
		OHSA S 70									-	1	-	-	-	-	1
		OHSA S 72										1	1	-	-	2	
		OHSA S 89									-	-	-	-	-	-	
		WHS S 177														-	
		WHS S 178														-	
		WHS S 198														-	
		Total	-	-	-	-	-	-	-	-	4	1	-	-	-	5	
	Explosives	EXPLR CI 99															-
Total		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total		1	2	6	8	-	9	7	12	27	10	21	28	21	152		
Metalliferous Underground	Advice/Improvement	MIA S 36B	-	-	-	5	3	2	8	10	33	7				68	
		MHSA S 131										22	44	34	55	155	
		OHSA S 91							2	-	3	1	-	1	-	7	
		WHS S 191														-	
		Total	-	-	-	5	3	2	10	10	36	30	44	35	55	230	
	Prohibition	MIA S 37	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2
		MIA S 37A	-	2	-	-	1	2	2	-	2	-	-	-	-	-	9
		MHSR CI 158										4	4	1	4	13	
		OHSA S 93							1	1	4	2	1	1	1	11	
		WHS S 195														1	
	Total	-	3	1	-	1	2	3	1	6	6	5	2	6	36		
	Investigation	OHSA S 62								8	-	-	-	1	-	9	
		OHSA S 70								-	-	-	-	-	-	-	
		OHSA S 72								-	-	1	-	-	-	1	
		OHSA S 89								-	-	2	-	1	-	3	
		WHS S 177														-	
		WHS S 178														-	
		WHS S 198														-	
	Total	-	-	-	-	-	-	-	8	-	3	-	2	-	13		
	Explosives	EXPLR CI 99															-
Total		-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total		-	3	1	5	4	4	13	19	42	39	49	39	61	279		
Total		1	5	7	13	4	13	20	31	69	49	70	67	82	431		

Figure 203

Non-Coal Extractives Surface and Underground Enforcement and Advice Notices by Notice Category and Type 1999-00 to 2011-12

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	2011-12	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	497	512	1,786	
		OHSA S 91							11	38	77	70	85	40	13	334	
		WHS A S 191														16	16
		Total	1	47	44	112	120	154	166	215	354	418	566	537	541	3,275	
	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	44	117	
		OHSA S 93							9	43	29	15	24	8	2	130	
		WHS A S 195														7	7
	Total	7	8	6	10	12	22	18	46	35	26	49	45	53	337		
	Investigation	OHSA S 62									-	-	-	4	-	-	4
		OHSA S 70									-	-	-	-	-	-	-
		OHSA S 72									-	-	-	-	-	-	-
		OHSA S 89									-	-	-	-	1	-	1
		WHS A S 177															-
		WHS A S 178															-
		WHS A S 198															-
	Total	-	-	-	-	-	-	-	-	-	-	-	4	1	-	5	
	Explosives	EXPLR CI 99									1	-	-	-	-	1	2
		Total	-	-	-	-	-	-	-	-	1	-	-	-	-	1	2
	Total		8	55	50	122	132	176	184	262	389	444	619	583	595	3,619	
Extractives Underground	Advice/Improvement	MIA S 36B	-	-	-	-	1	2	-	2	5	-				10	
		MHSA S 131										1	2	5	1	9	
		OHSA S 91								1	-	-	-	-	-	1	
		WHS A S 191														-	
		Total	-	-	-	-	1	2	1	2	5	1	2	5	1	20	
	Prohibition	MIA S 37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		MIA S 37A	-	-	-	-	1	-	-	-	-	-	-	-	-	1	
		MHSR CI 158														-	
		OHSA S 93								-	-	-	-	-	-	-	
		WHS A S 195														-	
	Total	-	-	-	-	1	-	1									
	Investigation	OHSA S 62									-	-	-	-	-	-	-
		OHSA S 70									-	-	-	-	-	-	-
		OHSA S 72									-	-	-	-	-	-	-
		OHSA S 89									-	-	-	-	-	-	-
		WHS A S 177															-
		WHS A S 178															-
		WHS A S 198															-
	Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Explosives	EXPLR CI 99									-	-	-	-	-	-	-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total		-	-	-	-	2	2	1	2	5	1	2	5	1	21	
Total		8	55	50	122	134	178	185	264	394	445	621	588	596	3,640		

Figure 204

Non-Coal Other Enforcement and Advice Notices by Notice Category and Type 1999-00 to 2011-12

Sector	Enforcement Category	Enforcement Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
NonCoal Other Surface	Advice/Improvement	MIA S 36B	-	-	-	1	1	-	1	-	2	-	-	-	-	5
		MHSA S 131	-	-	-	-	-	-	-	-	-	4	7	13	6	30
		OHSA S 91	-	-	-	-	-	-	-	-	2	5	1	-	-	8
		WHSa S 191	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Total	-	-	-	1	1	-	1	2	7	5	7	13	6	43
	Prohibition	MIA S 37	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		MIA S 37A	-	-	1	-	-	-	-	-	-	-	-	-	-	1
		MHSR CI 158	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSA S 93	-	-	-	-	-	-	-	1	21	6	2	1	-	31
		WHSa S 195	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	1	-	-	-	-	1	21	6	2	1	-	32	
	Investigation	OHSA S 62	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSA S 70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSA S 72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		OHSA S 89	-	-	-	-	-	-	-	-	1	-	-	-	-	1
		WHSa S 177	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHSa S 178	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHSa S 198	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-	-	-	1	-	-	-	1	
	Explosives	EXPLR CI 99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	Total	-	-	1	1	1	-	2	23	14	7	8	13	6	76
	NonCoal Other Underground	Advice/Improvement	MIA S 36B	-	-	-	-	-	-	-	-	-	-	-	-	-
MHSA S 131			-	-	-	-	-	-	-	-	-	-	1	6	2	9
OHSA S 91			-	-	-	-	-	-	-	-	-	-	-	-	-	
WHSa S 191			-	-	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	-	-	-	-	-	1	6	2	9
Prohibition		MIA S 37	-	-	-	-	-	-	-	-	-	-	-	-	-	
		MIA S 37A	-	-	-	-	-	-	-	-	-	-	-	-	-	
		MHSR CI 158	-	-	-	-	-	-	-	-	-	-	-	-	1	1
		OHSA S 93	-	-	-	-	-	-	-	-	-	-	1	-	-	1
		WHSa S 195	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-	-	-	-	1	-	1	2	
Investigation		OHSA S 62	-	-	-	-	-	-	-	-	-	-	-	-	-	
		OHSA S 70	-	-	-	-	-	-	-	-	-	-	-	-	-	
		OHSA S 72	-	-	-	-	-	-	-	-	-	-	-	-	-	
		OHSA S 89	-	-	-	-	-	-	-	-	-	-	-	-	-	
		WHSa S 177	-	-	-	-	-	-	-	-	-	-	-	-	-	
		WHSa S 178	-	-	-	-	-	-	-	-	-	-	-	-	-	
		WHSa S 198	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total		-	-	-	-	-	-	-	-	-	-	-	-	-		
Explosives		EXPLR CI 99	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Total	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total		Total	-	-	-	-	-	-	-	-	-	-	2	6	3	11
Total		Total	-	-	1	1	1	-	2	23	14	7	10	19	9	87

Figure 205

Petroleum (Onshore) Enforcement and Advice Notices by Notice Category and Type 1999-00 to 2011-12

Sector	Enforcement Category	Enforcement Type	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Petroleum	Advice/Improvement	OHSA S 91	-	-	-	-	-	-	-	-	-	-	3	1	-	4
		Total	-	-	-	-	-	-	-	-	-	-	-	3	1	4
	Prohibition	OHSA S 93	-	-	-	-	-	-	-	-	-	-	-	2	1	3
		Total	-	-	-	-	-	-	-	-	-	-	-	2	1	3
	Investigation	OHSA S 62	-	-	-	-	-	-	-	-	-	-	-	5	-	5
		Total	-	-	-	-	-	-	-	-	-	-	-	5	-	5
Total	Total	-	-	-	-	-	-	-	-	-	-	-	10	2	12	

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

Figure 206

Number of Mines by Mining Sector, Mine Type and Mine Operation Type 2011-12

Mining Sector	Mine Type	Underground	Surface								Total	
			Open Cut	Borrow Pit	Processing	Dredging	Opal Mining (All Types)	To Be Determined	Exploration	Total		
Coal	Total	31	35	1	19	0	0	0	0	80	135	166
	Total	31	35	1	19	0	0	0	0	80	135	166
Non Coal	Metaliferous	Metals	38	19	9	1	0	0	0	302	331	369
		Mineral Sands	0	5	1	3	2	0	0	1	12	12
		Total	38	24	10	4	2	0	0	303	343	381
	Extractives	Construction Materials	1	745	1,481	1	22	0	3	213	2,465	2,466
		Industrial Minerals	1	33	1	0	2	0	0	10	46	47
		Total	2	778	1482	1	24	0	3	223	2511	2513
	Other	Ancillary to Mining	0	0	0	1	0	0	1	12	14	14
		Gemstones or Precious Stones	9	5	2	52	0	26	8	19	112	121
		Opal Claim	1	1	0	0	0	0	0	0	1	2
		Readymix/Bitumen	0	0	0	1	0	0	0	0	1	1
		To Be Determined	0	0	0	0	0	0	5	95	100	100
		Treatment Plant	0	0	0	1	0	0	0	0	1	1
		Total	10	6	2	55	0	26	14	126	229	239
	Total	50	808	1494	60	26	26	17	652	3,083	3,133	
	Petroleum	Petroleum	0	0	0	7	0	0	0	46	53	53
Total		0	0	0	7	0	0	0	46	53	53	
Total		81	843	1495	86	26	26	17	778	3,271	3,352	

APPENDIX B ADDITIONAL INFORMATION

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

Figure 207
COMET Mine Types and Mining Sectors

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

Figure 208
COMET Mine Operation Types

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

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

Appendix B.2 COMET Incident Event Subtypes

Figure 209
COMET Incident Event Subtypes

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

Appendix B.3 COMET Incident Types and Relevant Legislation

Figure 210

COMET Incident Types under former and current legislation

Mine Category	Legislation		Commenced	Status	Legislation Category	COMET Incident Type
Coal	Coal Mines Regulation Act 1982	CMRA 1982	26/03/1984	Repealed	*CMRA	*1984 Dangerous Occurrence O/C *1984 Dangerous Occurrence U/G *Serious Bodily Injury CMRA *Fatality
	Coal Mines (General) Regulation 1999	CMGNR1999	1/09/1999	Repealed	*CMGNR	*Notifiable Incidents DCCP CMGNR 1999, CI 83 *Non Spec Acc Ending in Fat/Injury
	Coal Mines (Open Cut) Regulation 1999	CMOCR 1999	1/09/1999	Repealed	*CMOCR	*Notifiable Incidents CMOCR 1999, CI 16
	Coal Mines (Underground) Regulation 1999	CMUGR 1999	1/09/1999	Repealed	*CMUGR	*Dangerous Occurrences CMUGR 1999, CI 34(1) *Notifiable Incidents CMUGR 1999 CI 34A *Other Notifiable Incidents CMUGR 1999 CI 34B *Incidents CMUGR 1999, CI 34(2) Repealed 4/7/2003
	Coal Mine Health and Safety Act 2002 Coal Mine Health and Safety Regulation 2006	CMHSA 2002 CMHSR 2006	23/12/2006	Current	CMHS	CMHSR 2006 CI 55 CMHSR 2006 CI 56(1) Non Spec Acc Ending in Fat/Injury
Non-Coal	Mines Inspection Act 1901 Mines Inspection Regulation 1999 Mines Inspection General Rule 2000	MIA 1901 MIR 1999 MIGR 2000	1/02/1902 30/07/1999 01/09/2000	Repealed	*MIA	*1994 Emergency MIA *Minor Accident MIA *Pre Sept 2000 Dangerous Incident MIA *Serious Injury MIA *Dangerous Incident *Non Spec Acc Ending in Fat/Injury
	Mine Health and Safety Act 2004 Mine Health and Safety Regulation 2007	MHSA 2004 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 211

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

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

Figure 212

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

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

Figure 213

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

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

Appendix B.5 Notifiable Injury Outcomes and Relevant Legislation

Figure 214

Notifiable Injury Outcomes under current legislation

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

Notifiable Injury Outcomes under current legislation continued

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

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

Figure 215

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

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

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

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

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

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

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

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

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

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

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

Former Legislation CMRA 1982, CMGR 1999 CMOCR 1999, CMUGR 1999		Current Legislation CMHSA 2002, CMHSR 2006		Comment
CMOCR 1999 CI 16 CMUGR 1999 CI 34(1) CMGMR 1999 CI 83	<p>Outbreak fire 16(1)(a) An outbreak of fire endangering persons or causing serious property damage</p> <p>Outbreak fire self heat 34(1)(b) an outbreak of fire or spontaneous heating of coal or other material underground or initial spontaneous heating in a coal stock pile on the surface</p> <p>Outbreak fire 83(1)(a) An outbreak or fire endangering persons or causing serious property damage</p>	CI 55(e)	an uncontrolled explosion or fire or a misfire of explosives in the underground parts of a coal operation	Different More inclusive
CMUGR 1999 CI 34(1)	<p>Outburst 34(1)(e) A coal or rock outburst that endangers a person or disrupts mine ventilation</p>	CI 55(f)	an uncontrolled outburst of gas	Similar Less inclusive
CMOCR 1999, CI 16 CMUGR 1999 CI 34(1)	<p>Inrush 16(1)(c) An abnormal inrush of water, or material that flows when wet, from any source such as to endanger persons or property</p> <p>Inrush 34(1)(d) An inrush within the meaning of Division 8</p>	CI 55(g)	an abnormal inrush of fluid	Similar More inclusive
		CI 55(h)	a collision on the surface part of the coal operation involving a vehicle or mobile plant with a gross weight of more than 2 tonnes	New
		CI 55(i)	the loss of control of a heavy vehicle or other large plant on the surface part of the coal operation	New
		CI 55(j)	the overturning of a heavy vehicle or other large plant on the surface part of the coal operation	New
CMOCR 1999, CI 16	<p>Flyrock 16(1)(j) The ejection of flyrock outside the boundary of a mine's lease area during 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)	Self heat 16(1)(b) Initial self-heating of the coal strata or overburden in a part of a mine Outbreak fire self heat 34(1)(b) An outbreak of fire or spontaneous heating of coal or other material	CI 56(1)(f)	initial self-heating of coal or other material, or any heating of coal in the underground parts of a coal operation that results in withdrawal of people	Similar
CMUGR 1999 CI 34(1)	Failure ventilation 34(1)(c) Failure of ventilation that results in an accumulation of gas that requires the withdrawal of persons	CI 56(1)(g)	an accumulation of gas that requires the withdrawal of people or results in the tripping off of electric power	Different More inclusive
CMUGR 1999 CI 34B	Fall roof sides 34B(1)(b) An unplanned fall of roof or sides of a mine that impedes passage or disrupts mine ventilation	CI 56(1)(h)	an unplanned fall of a roof or sides that impedes passage or disrupts mine ventilation or extends outside the bolted zone	Similar More inclusive
CMUGR 1999 CI 34B	Windblast 34B(1)(c) A windblast that results in injuries requiring first-aid treatment	CI 56(1)(i)	A windblast that results in injuries requiring treatment by a medical practitioner	Similar Less inclusive
CMUGR 1999 CI 34B	Entrapment breaker line 34B(1)(e) Entrapment of a breaker line support by a fall of roof such that it is unable to be recovered under its own tractive effort	CI 56(1)(j)	the burial of machinery such that it cannot be recovered under its own tractive effort	Similar More inclusive
CMUGR 1999 CI 34B	Entrapment cont miner 34B(1)(d) Entrapment of a continuous miner by a fall of roof or sides such that it is unable to be recovered under its own tractive effort			
CMUGR 1999 CI 34B	Creep 34B(1)(f) A creep, progressive pillar collapse or significant deviation from predicted surface subsidence	CI 56(1)(k)	A creep or progressive pillar collapse	Similar Less inclusive

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

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

Figure 216

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Appendix B.7 COMET Assessment Event Subtypes

Figure 217
COMET Assessment Event Subtypes

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

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

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

Figure 218
Enforcement and Advice Notice Categories and Types

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

*indicates repealed legislation

Appendix B.9 Sources of Data

Figure 219
Sources of NSW Data

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

Figure 220
Sources of Other National and International Data

Data	Source
Queensland, Australia	<ul style="list-style-type: none"> • Queensland Department of Natural Resources and Mines (data for 2010-11 to 2011-12) • Queensland Mines and Quarries Safety Performance and Health Reports 2000-01 to 2009-10 (data to 2008-09)
Western Australia	<ul style="list-style-type: none"> • Western Australia Department of Mines and Petroleum (data for 2010-11 to 2011-12) • Safety Performance in the Western Australian Mineral Industry Accident and Injury Statistics 2006-07 to 2009-10 <p><i>Note:</i></p> <ul style="list-style-type: none"> - Coal is surface only - Metalliferous excludes construction materials - Extractives includes construction materials - Exploration is not included <ul style="list-style-type: none"> • Safety Performance Report of the Australian Minerals Industry – Minerals Council of Australia 2007-08 (data to 2005-06)
United States of America	<ul style="list-style-type: none"> • USA Mine Safety and Health Administration Mine Injury and Worktime, Quarterly Reports from 2006 <p><i>Note:</i></p> <ul style="list-style-type: none"> - Metalliferous includes metallic minerals - Extractives includes non-metallic minerals, stone, sand & gravel <ul style="list-style-type: none"> • Safety Performance Report of the Australian Minerals Industry – Minerals Council of Australia 2007-08 (data to 2005) <p><i>Note:</i></p> <ul style="list-style-type: none"> - Metalliferous includes metals - Extractives includes sand & gravel

Appendix B.10 Links to Other Sources of Information

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

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

NSW Trade & Investment – Mine Safety

PO Box 344
Hunter Region Mail Centre NSW 2310

Telephone: (02) 4931 6666

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

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

Regional Offices

Maitland

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

Lightning Ridge

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

Thornton

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

Armidale

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

Lithgow

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

Wollongong

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

Broken Hill

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Level 2, 32 Sulphide Street
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Orange

NSW Trade & Investment - Mine Safety
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Cobar

NSW Trade & Investment - Mine Safety
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Singleton

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