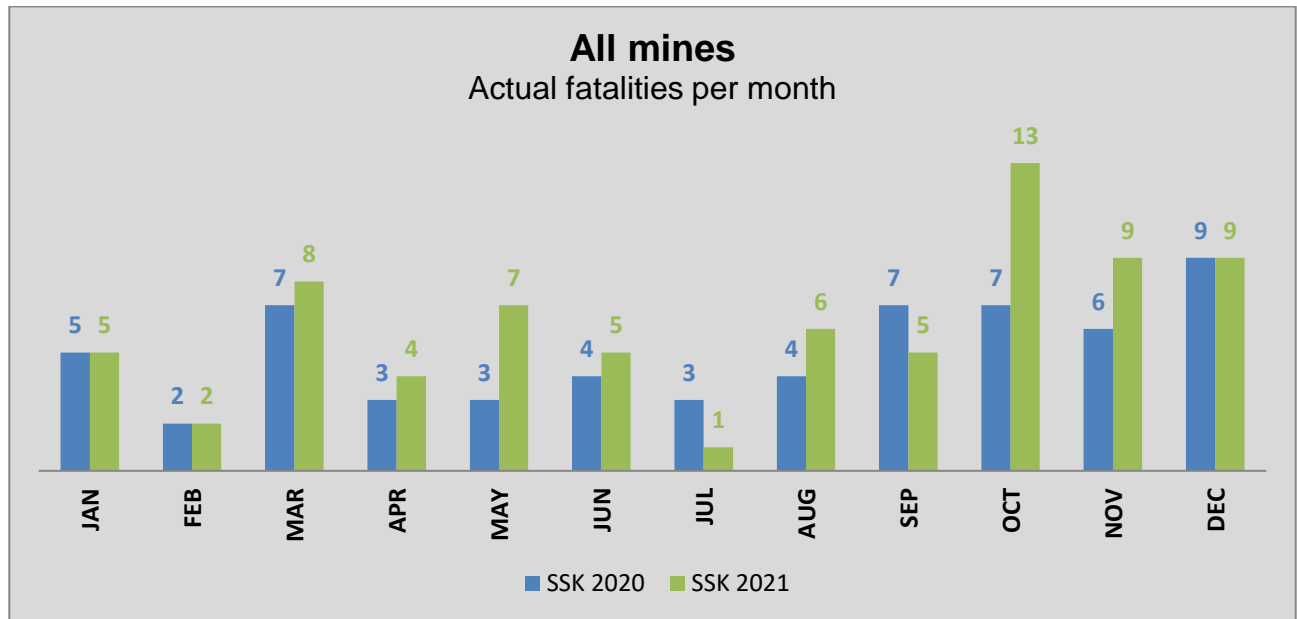




1. OVERALL FATALITIES PER MONTH

During the month of December 2021, **nine (9)** fatalities were reported whilst during the same period in 2020 **nine (9)** mine workers were fatally injured. Fatalities reported for the year up to December 2021 were **seventy four (74)** while **sixty (60)** were reported over the same period in 2020. This translates to a regression in the number of fatalities of 23% year on year.



2. STATISTICS OF FATALITIES BY REGION

The table below illustrates the progressive performance of each region with regard to fatalities. During the month of December 2021, **six (6)** of the **ten (10)** regions had not reported any fatalities.

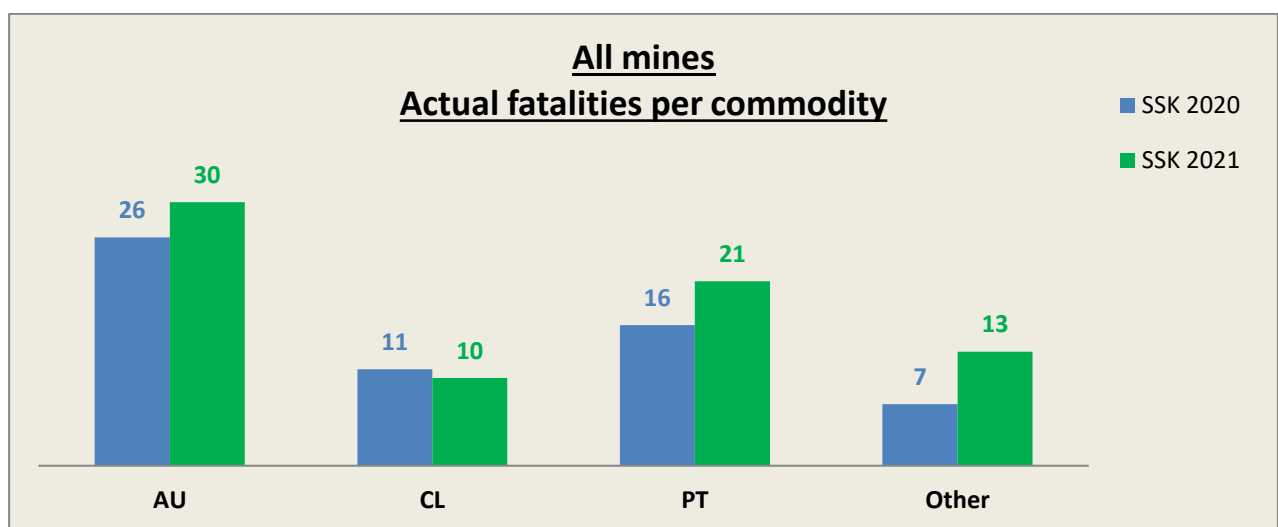
	WC	NC	FS	EC	KZN	MP	LP	GP	NW-KLD	NW-RST	TOTAL
JAN	0	0	3	0	0	0	0	1	0	1	5
FEB	0	0	1	0	0	0	0	1	0	0	2
MAR	1	1	0	0	0	2	0	0	2	2	8
APR	0	0	1	0	0	0	0	2	0	1	4
MAY	0	1	0	0	0	2	1	2	0	1	7
JUN	0	1	0	0	0	1	0	1	0	2	5
JUL	0	0	1	0	0	0	0	0	0	0	1
AUG	0	0	0	0	0	2	0	0	1	3	6
SEP	0	0	0	0	0	0	1	4	0	0	5
OCT	0	1	0	0	1	3	1	3	1	3	13
NOV	0	2	1	0	0	0	1	0	0	5	9
DEC	0	0	3	0	0	0	2	2	0	2	9
TOTAL	1	6	10	0	1	10	6	16	4	20	74



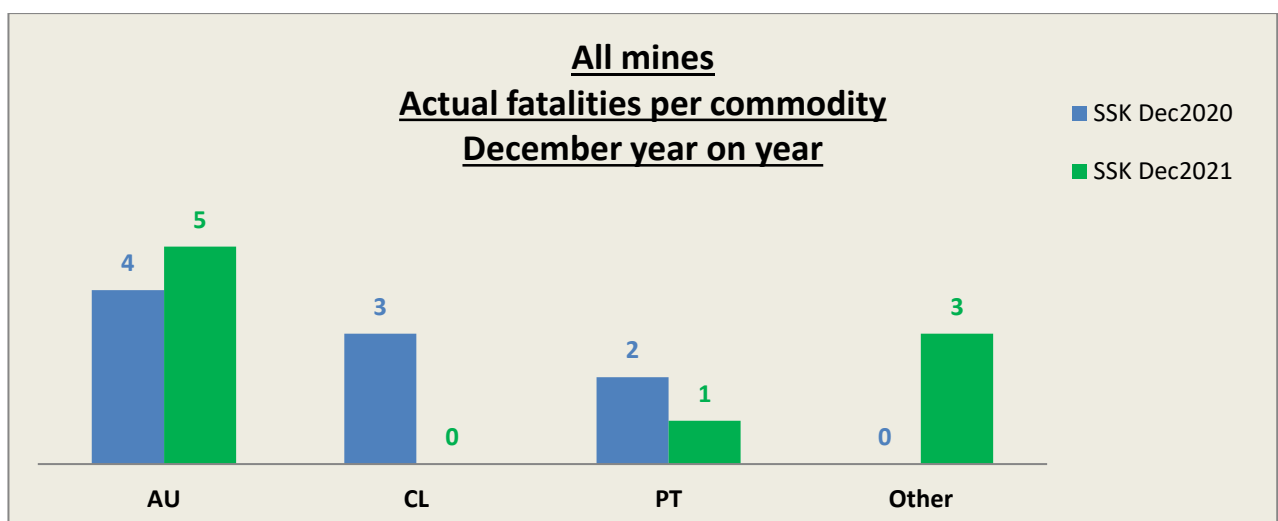
3. ANALYSIS OF FATALITIES BY COMMODITY

For the purpose of the analysis, commodities are grouped into gold (AU), platinum (PT), coal (CL) and other mines (i.e. manganese, sand, diamond, iron ore, chrome, copper, dolerite, salt and lead/zinc).

3.1 The comparison of fatalities for the year up to December 2020 and 2021 are reflected on the graph below and shows increases in fatalities of 15%, 31%, and 86% in the gold, platinum and other mines sectors respectively, while showing a decrease of 9% in the coal sector.



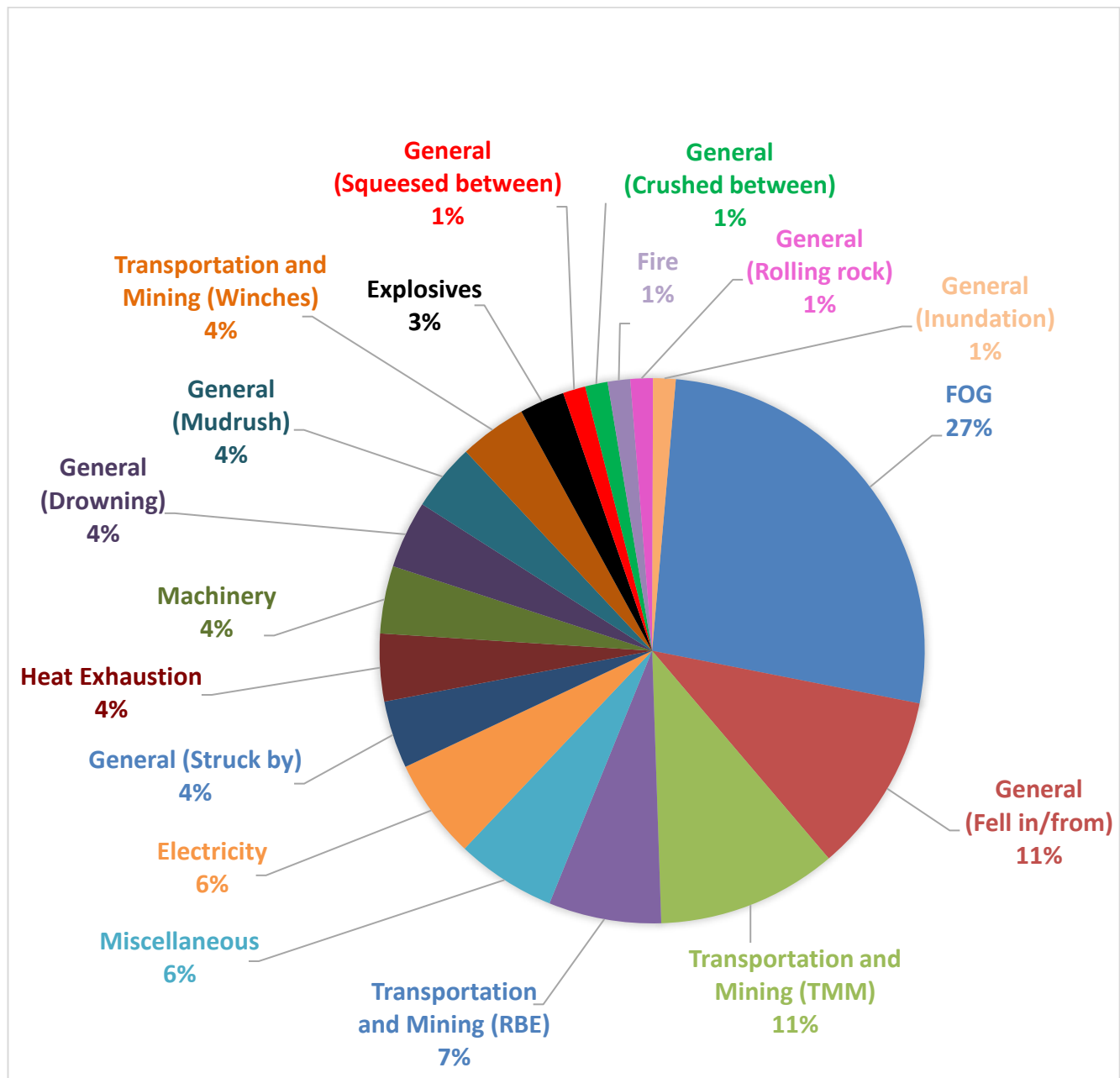
3.2 In December 2021, the gold sector had reported **five (5)** fatalities, the platinum sector **one (1)** fatality, and the other mines sector **three (3)** fatalities. The coal sector reported **none (0)**.





4. ANALYSIS OF FATALITIES BY CLASSIFICATION – ALL MINES

The graph below shows the provisional causes of fatalities per classification for the year to December 2021:



4.1 FOG (Fall of Ground) (27%)

There were **twenty (20)** fatalities reported in this category this year in 2021. **Nine (9)** were reported in the gold sector, **ten (10)** in the platinum sector and **one (1)** at a chrome mine. **Sixteen (16)** fall of ground fatalities were gravity related and **four (4)** were seismic related in the gold sector. **One (1)** was reported in December 2021 at a platinum mine.



The now deceased Team Leader was fatally injured in a fall of ground accident. He was busy barring in the development end when the rock fell on him. He succumbed to injuries sustained when arrived at a private hospital.

4.2 General (Fell in/from) (11%)

There were **eight (8)** fatalities reported in this category this year in 2021. **Three (3)** were reported in the gold sector, **one (1)** at a manganese mine, **one (1)** at a coal mine, **one (1)** at a diamond mine, **one (1)** at a platinum mine and **one (1)** at a copper mine. **One (1)** was reported in December 2021 at a copper mine. The now deceased contractor Rigger subsequently succumbed to internal bleeding at a hospital in town, after he fell approximately 27m at the construction site. It appears that the now deceased was wearing his safety harness, which was not secured.

4.3 Transportation and Mining (TMM) (11%)

There were eight (8) fatalities reported in this category this year in 2021. Four (4) were reported at the gold mines, two (2) at the platinum mines, one (1) at a coal mine, and one (1) at a salt mine. Four (4) were reported in December 2021 in two incidents. In the first incident, the now deceased three (3) employees were fatally injured when the Load Haul Dump (LHD) Operator/Artisan had lost control of the LHD in the shaft bottom decline where spillage was being loaded and fatally struck two (2) employees, a Rock Drill Operator and a woman Pump Attendant. The LHD Operator had sustained serious injuries and succumbed to the injuries en route to the shaft. In the second incident, the now deceased Driver Heavy Duty was fatally injured when his truck overturned, after he lost control at a downhill circle. The truck was transporting 3.8 tons of old electrical cables to the salvage yard.

4.4 Transportation and Mining (Railbound Equipment-RBE) (7%)

There were **five (5)** fatalities reported in this category this year in 2021. **Four (4)** were reported in the platinum sector and **one (1)** in the gold sector. **None (0)** were reported in December 2021.

4.5 Miscellaneous (6%)

Miscellaneous classification refers to fatalities of which the cause cannot be readily classified, pending investigations and/or post-mortems. There were **four (4)** fatalities reported in this category this year in 2021. **Three (3)** were reported in the gold sector and **one (1)** in the coal sector. **None (0)** were reported in December 2021.

4.6 Electricity (6%)

There were **four (4)** fatalities reported in this category this year in 2021. **One (1)** was reported in the gold sector, **one (1)** in the coal sector, **one (1)** at a manganese mine and **one (1)** at a copper mine. **One (1)** was reported in December 2021 at a copper mine. The now deceased Electrical Supervisor was fatally injured during an electrocution accident. The now deceased was meant to replace a 110 volt relay on a mini substation.



4.7 General (Struck by) (4%)

There were **three (3)** fatalities reported in this category this year in 2021 in a single incident at a coal mine. **None (0)** were reported in December 2021.

4.8 Heat Exhaustion (4%)

There were **three (3)** fatalities reported in this category this year in 2021 in the gold sector in one incident. **None (0)** were reported in December 2021.

4.9 Machinery (4%)

There were **three (3)** fatality reported in this category this year in 2021. **One (1)** was reported at a coal mine, **one (1)** at a copper mine and **one (1)** at a dolomite mine. **None (0)** were reported in December 2021.

4.10 General (Drowning) (4%)

There were **three (3)** fatalities reported in this category this year in 2021 in a single incident at a coal mine. **None (0)** were reported in December 2021.

4.11 General (Mudrush) (4%)

There were **three (3)** fatalities reported in this category this year in 2021 in a single incident at a platinum mine. **None (0)** were reported in December 2021.

4.12 Transportation and Mining (Winches) (4%)

There were **three (3)** fatalities reported in this category this year in 2021 in the gold mines. **One (1)** was reported in December 2021. The now deceased Team Leader was fatally injured when he was struck by a return snatch block which came loose from the anchoring points.

4.13 Explosives (3%)

There were **two (2)** fatalities reported in this category this year in 2021, all at the gold mines. **None (0)** were reported in December 2021.

4.14 General (Squeezed between) (1%)

There was **one (1)** fatality reported in this category this year in 2021 at a sand mine. **None (0)** were reported in December 2021.

4.15 General (Crushed between) (1%)

There was **one (1)** fatality reported in this category this year in 2021 at a coal mine. **None (0)** were reported in December 2021.



4.16 Fire (1%)

There was **one (1)** fatality reported in this category this year in 2021 at a coal mine. **None (0)** were reported in December 2021.

4.17 General (Rolling rock) (1%)

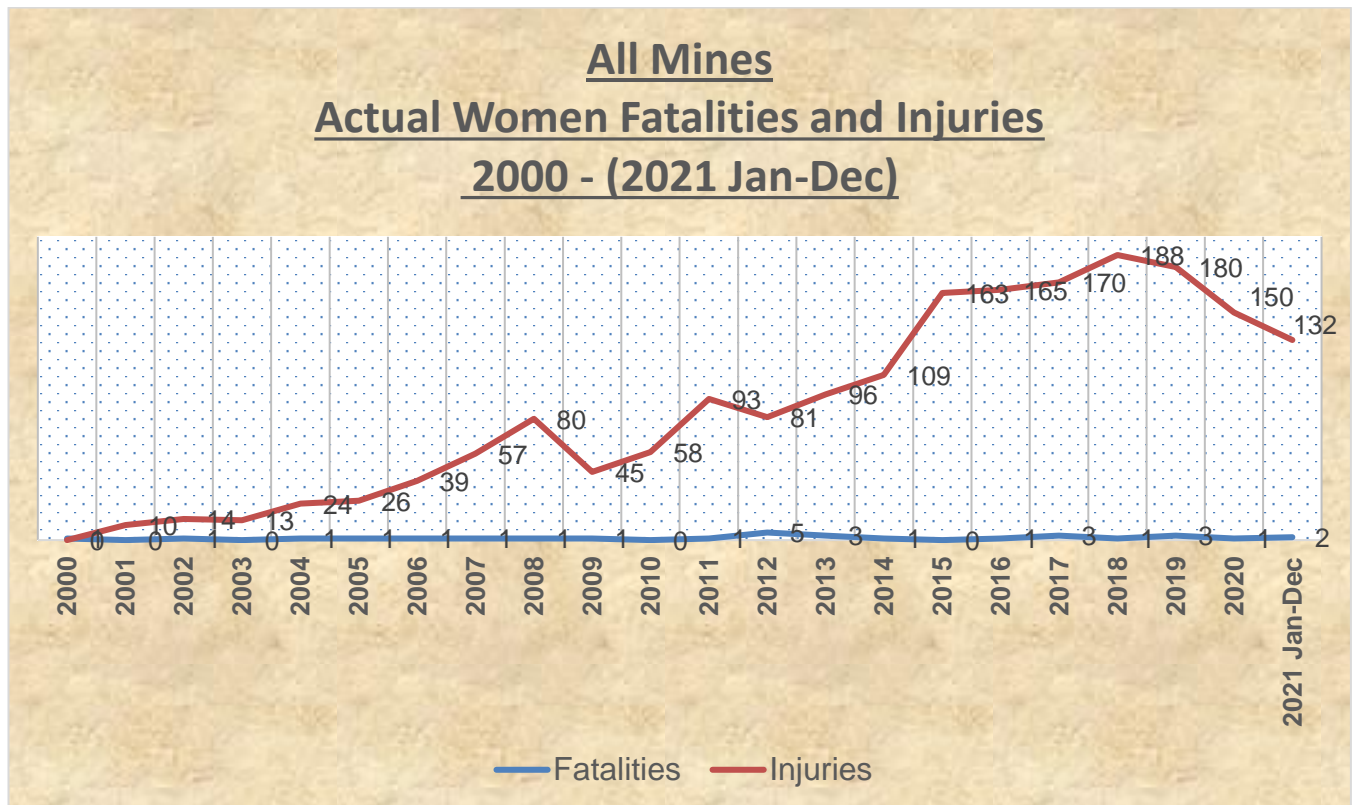
There was **one (1)** fatality reported in this category this year in 2021 at a lead/zinc mine. **None (0)** were reported in December 2021.

4.18 General (Inundation) (1%)

There was **one (1)** fatality reported in this category this year in December 2021 at a chrome mine. The now deceased Spiral Operator was fatally injured when he was engulfed within a feedbin on surface.

5. Women Employees

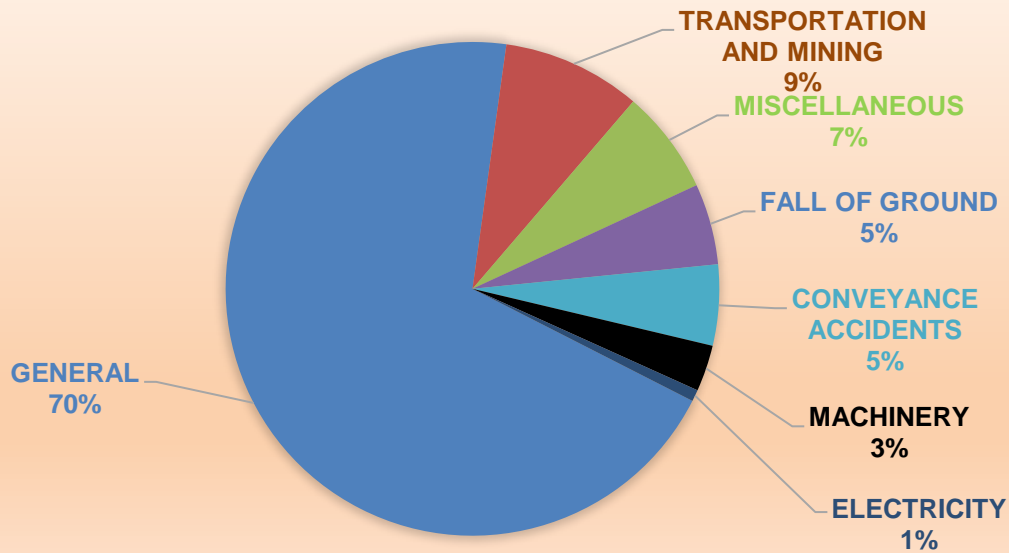
The number of women employees has steadily increased in the South African mining industry and the graph below shows injuries and fatalities to women employees across all commodities from 2000 to December 2021 per classification.



The graph below shows the percentage classifications of injuries to women employees across all commodities per classification from January to December 2021:

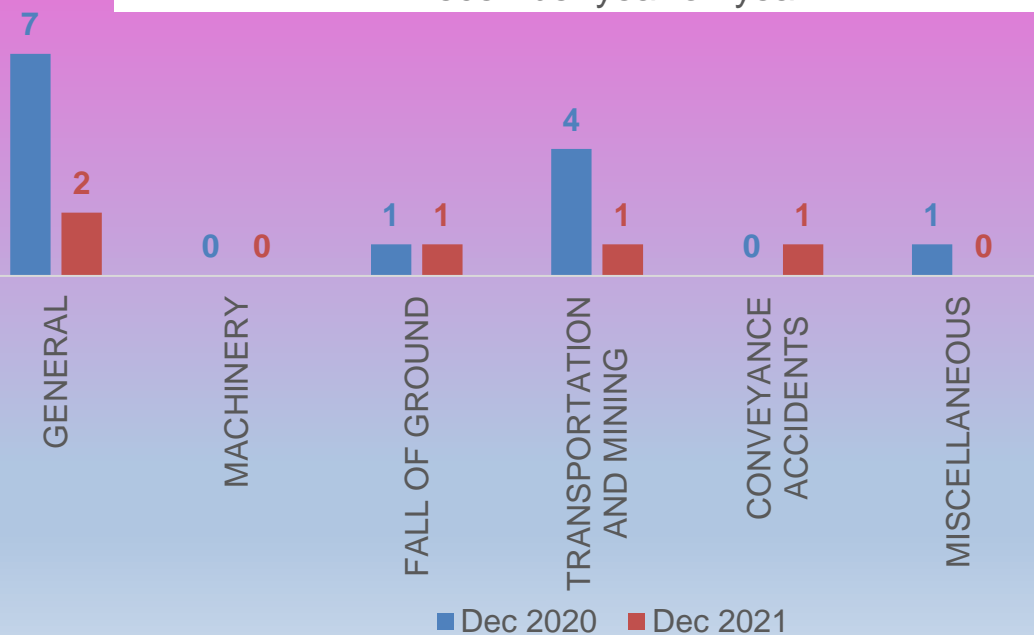


All Mines
Women Employees Injuries per Classification:
Jan-Dec 2021



The graph below shows the comparison of injuries to women employees across all commodities in December 2020 and December 2021:

All Mines
Number of Women Employees Injuries per Classification:
December year on year





6. FATALITIES AND INJURIES

6.1 FATALITIES

The table below reflects the number of fatalities that were reported for the year to December 2020 and 2021 per commodity.

	Jan-Dec 2020	Jan-Dec 2021
Gold Mines	26	30
Platinum Mines	16	21
Coal Mines	11	10
Other Mines	7	13
TOTAL	60	74

6.2 MINE INJURIES

The table below reflects the **provisional** number of injuries that were reported for the year to December 2020 and 2021 per the classification of the accident.

	INJURIES		
	Jan-Dec 2020	Jan-Dec 2021	% Change
FALL OF GROUND	309	374	21
Rockburst	72	82	14
Strainburst	45	31	-31
Gravity	192	261	36
MACHINERY	120	157	31
Conveyor belts	29	29	0
Drives, Belts and chains	10	16	60
Portable power tools	60	75	25
Other machinery (not included in TMM)	21	37	76
RAILBOUND	116	122	5
Locomotive	19	30	58
Locomotive drawn vehicle	27	18	-33
Rerailing	14	9	-36
Coupling/uncoupling	32	32	0
Rocker arm shovel	11	7	-36
Personnel transport	6	11	83
Hand trammed	5	11	120
Other Transport	2	4	100
WINCHES	90	90	0
Scraper Winch Installation	57	63	11
Single drum winch	6	10	67



	Jan-Dec 2020	Jan-Dec 2021	% Change
Double drum winch	15	11	-27
Mono rope/rail	12	6	-50
TRACKLESS MOBILE MACHINES	116	101	-13
Tractor/Trailer	2	5	150
Coal Mining Machines	4	4	0
Mechanical Loaders	10	7	-30
Transporters	35	28	-20
Motor vehicles	19	11	-42
T&M lifting machines	14	14	0
T&M mobile drilling machines	25	21	-16
Other Transport	7	11	57
GENERAL	956	1051	10
Fall of material/rolling rock	119	127	7
Manual handling of material	220	266	21
Manual handling of mineral	38	46	21
Falling in/from	25	32	28
Slipping and falling	317	383	21
Burning and scalding	27	26	-4
Splinters	24	18	-25
Dust, gas and fumes	43	20	-53
Inundation/Drowning	3	1	100
Struck by ventilation door	8	19	138
Struck by any object manual handling	132	113	-14
Conveyance accidents (shaft/winze)	24	41	71
Electricity (Not causing fires)	11	12	9
Fires	0	4	400
Explosives	3	11	267
Subsidence or caving	0	1	100
Diving sickness	0	1	100
Heat sickness	7	4	-43
Miscellaneous	24	67	179
TOTAL	1776	2036	15



7. OCCUPATIONAL MEDICINE Q1 REPORT: APRIL-DECEMBER 2021

7.1 INTRODUCTION

In terms of section 11(5B) of the Mine Health and Safety Act (MHSA), Act No. 29 of 1996, as amended; the employer must notify the Principal Inspector of mines (PloMs) of any occurrence at the mine that results in serious illness or death of any person. The employers submit to the PloMs, the Health Incident Reports (HIRs) DMRE 231 Forms completed by the Occupational Medical Practitioners (OMPs) on monthly basis to report occupational diseases diagnosed amongst mine employees during medical surveillance.

7.2 DISCLAIMER ON THE STATUTORY REPORTS (HIRs) SUBMISSION STATUS

The submission of HIRs for reporting of occupational diseases by mines was hugely impacted during the period of shutdown/reduced mining activities in the South African Mining Industry (SAMI) when the South African President, Honourable Cyril Ramaphosa declared a national state of disaster which was followed by a nationwide lock-down from Thursday 26 March 2020 in order to curb the spread of COVID-19. Most mines resumed operations in line with the gradual and phased easing of the lockdown restrictions to lower Coronavirus alert levels and the slight improvement on the submission of HIRs was noted from September 2020.

7.3 OCCUPATIONAL DISEASES REPORTED

During April 2021-December 2021, the mines reported a total of **1 023** occupational diseases from the Health Incident Reports (HIRs) when compared to **767** cases reported during the same period in 2020/21. The Eastern Cape region did not report any occupational diseases for both reporting periods.

Calculation of the percentage change:

$$(1\ 023-767) / 767 \times 100 = \mathbf{33.38\%}$$

7.4 ANALYSIS OF OCCUPATIONAL DISEASES REPORTED PER REGION

Table 7.4.1 Analysis of occupational diseases reported per region: April 2021-December 2021 and April 2020-December 2020

Disclaimer: The Coal workers' pneumoconiosis (CWP) case from KZN region that was reported and captured in 2021/22 Q2 (April 2021-September 2021) report has been removed as it was already reported and captured in March 2021 for the 2020/21 Q4 Report (April 2020-March 2021). The region confirmed the correction by email correspondence.



Occupational Health and Safety Report

December 2021

	EC		FS		GR		KZN		LP		Mpu		NC		NWK		NWR		WC		TOTAL		Percentage change
	Q3 2020/21	Q3 2021/22	Q3 2020/21	Q3 2021/22	Q3 2020/21	Q3 2021/22	Q3 2020/21	Q3 2021/22	Q3 2020/21	Q3 2021/22	Q3 2020/21	Q3 2021/22	Q3 2020/21	Q3 2021/22	Q3 2020/21	Q3 2021/22	Q3 2020/21	Q3 2021/22	Q3 2020/21	Q3 2021/22	Q3 2020/21	Q3 2021/22	
PTB	0	0	52	56	65	110	2	8	28	10	25	42	10	4	32	45	90	139	0	1	304	415	36.51
Sil+TB	0	0	3	0	2	10	0	0	0	0	0	0	0	0	2	7	2	1	0	0	9	18	100.00
MDR-TB	0	0	1	2	3	3	0	0	0	0	0	2	1	0	0	1	1	2	0	0	6	10	66.67
XDR-TB	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	-100.00
Silicosis	0	0	71	64	44	41	0	1	1	1	0	0	0	0	28	43	6	7	0	0	150	157	4.67
Asbestosis	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	1	-50.00
CWP	0	0	0	1	0	0	0	0	0	1	1	5	0	0	0	0	0	0	0	0	1	7	600.00
COAD	0	0	24	18	5	5	0	0	0	0	4	6	0	0	2	7	0	6	0	0	35	42	20.00
Occ asthma	0	0	0	0	0	4	0	0	1	1	0	0	1	0	0	1	0	0	0	0	2	6	200.00
Occ lung cancer	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	#DIV/0!
NIHL	0	0	26	35	64	100	1	2	10	15	6	23	2	5	37	45	91	104	8	14	245	343	40.00
Occ skin diseases	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	3	0	0	1	4	300.00
Platinum salt sensitivity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	-100.00
Musculoskeletal disorders	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	-100.00
Progressive massive fibrosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!
Other occ diseases	0	0	0	0	0	0	0	0	2	1	1	2	2	1	0	0	2	15	0	0	7	19	171.43
Total	0	0	177	176	185	275	4	11	43	30	38	80	17	10	102	149	193	277	8	15	767	1023	33.38



7.5 ANALYSIS OF OCCUPATIONAL DISEASES REPORTED BY COMMODITY

The table below illustrates a comparison of occupational diseases reported per sector during April 2021- December 2021 when compared to the same period in 2020/21. Generally, the mining sector reported occupational diseases as follows: in gold **609** cases from **468** cases; in platinum **282** cases from **217** cases; in coal **73** cases from **37** cases; in diamond **5** cases from **3** cases; in chrome **21** cases from **14** cases; in manganese **2** cases from **6** cases; in iron ore **5** cases from **8** cases; and in other mines **26** cases from **14** cases.

No occupational diseases were reported from the copper sector for both reporting periods.

Table 7.5.1 Analysis of occupational diseases reported by commodity: April 2021- December 2021 and April 2020- December 2020

Disclaimer: The Coal workers' pneumoconiosis (CWP) case from KZN region coal mine that was reported and captured in 2021/22 Q2 (April 2021-September 2021) report has been removed as it was already reported and captured in March 2021 for the 2020/21 Q4 Report (April 2020-March 2021). The region confirmed the correction by email correspondence.

Occupational Health and Safety Report: December 2021

	Gold		Platinum		Coal		Diamond		Copper		Chrome		Manganese		Iron Ore		Other mines		TOTAL	
	Q 3 2020/21	Q3 2021/22	Q 3 2020/21	Q3 2021/22	Q 3 2020/21	Q3 2021/22	Q 3 2020/21	Q3 2021/22	Q 3 2020/21	Q3 2021/22	Q 3 2020/21	Q3 2021/22	Q 3 2020/21	Q3 2021/22	Q 3 2020/21	Q3 2021/22	Q 3 2020/21	Q3 2021/22	Q 3 2020/21	Q3 2021/22
PTB	153	215	108	136	25	42	1	2	0	0	5	11	3	1	6	1	3	7	304	415
Sil+TB	7	17	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	18
MDR-TB	4	8	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6	10
XDR-TB	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Silicosis	143	148	7	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	150	157
Asbestosis	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	1
CWP	0	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	1	7
COAD	32	31	0	6	3	5	0	0	0	0	0	0	0	0	0	0	0	0	35	42
Occ asthma	0	2	0	0	0	0	0	3	0	0	1	1	0	0	1	0	0	0	2	6
Occ lung cancer	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
NIHL	125	184	94	110	6	18	2	0	0	0	8	8	0	1	1	3	9	19	245	343
Occ skin diseases	1	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4
Platinum salt sensitivity	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Musculoskeletal disorders	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0
Progressive massive fibrosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other occ diseases	0	2	3	16	2	0	0	0	0	0	0	0	2	0	0	1	0	0	7	19
Total	468	609	217	282	37	73	3	5	0	0	14	21	6	2	8	5	14	26	767	1023



7.6 ANALYSIS OF OCCUPATIONAL DISEASES BY DISEASE CLASSIFICATION GROUPS

7.6.1 OCCUPATIONAL LUNG DISEASES (OLD)

During April 2021-December 2021, the mines reported a total of **657** occupational lung diseases (OLD) cases when compared to **511** cases during the same period in 2020/21. The OLD reported include the following: Pulmonary tuberculosis (PTB), Silico-tuberculosis (Sil+TB), Multidrug-resistant TB (MDR TB); Extremely-drug resistant TB (XDR-TB), Silicosis, Asbestosis, Coal workers' pneumoconiosis (CWP) Chronic obstructive airways disease (COAD), Occupational asthma, Occupational lung cancer and Progressive massive fibrosis (PMF).

The requirements of the COVID-19 Guideline placed restrictions on the initial return to work amongst employees with comorbidities, and this could be a reason of the increase on the number of OLD cases reported during April 2021-December 2021 when compared to the same period in 2020/21. All employees that were classified under the category of vulnerable groups were those with known comorbid conditions including chronic respiratory conditions and or OLD.

7.6.1.1 SILICOSIS

During April 2021-December 2021, the mines reported a total of **157** silicosis cases when compared to **150** cases reported during the same period in 2020/21. The gold sector reported the highest number of **148** cases which is, followed by the platinum sector with **8** cases and the coal sector with **1** case.

7.6.1.2 PULMONARY TUBERCULOSIS (PTB)

The mines reported a total of **415** pulmonary tuberculosis (PTB) cases during April 2021-December 2021 when compared to **304** cases reported during the same period in 2020/21. The gold sector reported the highest number of **215** cases, followed by the platinum sector with **136** cases and the coal sector with **42** cases.

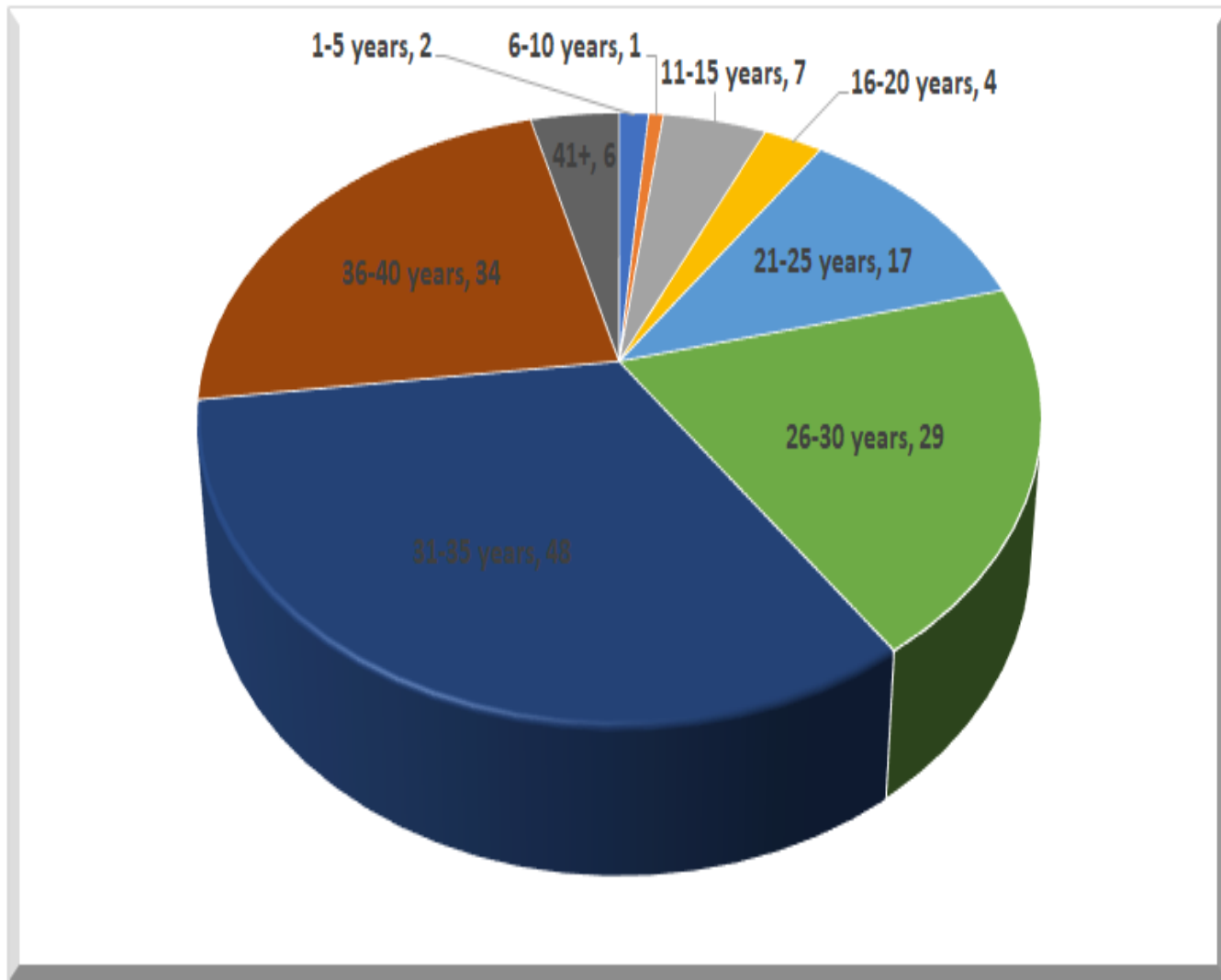
7.6.2 NOISE INDUCED HEARING LOSS (NIHL)

During April 2021-December 2021, the mines reported a total of **343** noise-induced hearing loss (NIHL) cases when compared to **245** cases reported during the same period in 2020/21. The gold sector reported the highest number of **184** cases; followed by the platinum sector with **110** cases; the coal sector with **18** cases and the chrome sector with **8** cases.



7.7 ANALYSIS OF SILICOSIS CASES REPORTED FROM GOLD MINES BY YEARS OF SERVICE

Figure 7.7.1 Analysis of silicosis cases reported from gold mines by years of service: April 2021-December 2021



The figure above shows **148** silicosis cases reported from the gold sector during April 2021-December 2021. The **2** cases reported had **1-5** years of service and **1** case had **6-10** years of service. All **3** cases reported with ≤ 10 years of service reportedly fall under the category of acute silicosis which results from short-term exposure to large amounts of respirable crystalline silica dust. The reported employees could be '**possible**' Novice silicosis cases, which raises a concern considering the revised 2014 Occupational Health (OH) Milestones on the elimination of occupational lung diseases (OLD) which the SAMI should achieve by 2024.

The **7** cases with **11-15** years of service, **4** cases had **16-20** years of service; **17** cases had **21-25** years of service; **29** cases with **26-30** years of service; **48** cases had **31-35** years of service, which is the highest number; **34** cases had **36-40** years of service and **6** cases had **> 41** years



of service on the mines. No female employees were reported with silicosis for both reporting periods.

The Occupational Health (OH) Directorates (Occupational Hygiene and Medicine) within the Mine Health and Safety Inspectorate (MHSI) in head office should collaborate with the regions to engage the respective mines to follow up on their remedial action plans implemented based on the outcomes of investigations conducted by employers in terms of section 11 (5) of the MHSA.

7.8 ANALYSIS OF NOISE INDUCED HEARING LOSS CASES REPORTED BY COMMODITY, PERCENTAGE LOSS OF HEARING (PLH) AND YEARS OF SERVICE: APRIL 2021-DECEMBER 2021

Table 7.8.1 Analysis of noise-induced hearing loss (NIHL) from gold mines: April 2021-December 2021 HIRs

	Years of service	Percentage loss of hearing (PLH)									Total
		10-15%	16-20%	21-25%	26-30%	31-35%	36-40%	41-45%	46-50%	>50%	
Gold	1 - 5	0	0	0	0	0	0	0	0	0	0
	6 - 10	2	0	0	1	0	0	0	0	1	4
	10-15	8	5	1	0	0	0	0	0	0	14
	16 - 20	13	3	1	0	0	0	0	0	1	18
	21-25	14	4	5	4	1	0	2	0	0	30
	26-30	19	3	4	1	1	1	0	0	0	29
	31-35	30	3	6	1	0	0	0	0	1	41
	36-40	22	9	2	4	1	0	1	0	2	41
	41+	3	2	1	0	1	0	0	0	0	7
	Total	111	29	20	11	4	1	3	0	5	184

The table above shows **184** noise induced hearing loss (NIHL) cases reported from the gold sector. The analysis shows **4** cases reported with **6-10** years of service and within the following percentage loss of hearing (PLH) ranges: **1** case **>50%** and **26-30%** PLH respectively, and the severity of hearing loss for the cases raises a concern considering that the employees' years of exposure on the mines is ≤ 10 years. The **2** cases reported were within the **10-15%** PLH.



Occupational Health and Safety Report:

December 2021

Table 7.8.2 Analysis of noise-induced hearing loss (NIHL) from platinum mines: April-October 2021 HIRs

	Years of service	Percentage loss of hearing (PLH)									
		10-15%	16-20%	21-25%	26-30%	31-35%	36-40%	41-45%	46-50%	>50%	Total
Platinum	1 - 5	2	0	0	0	0	0	0	0	0	2
	6 - 10	3	0	0	0	0	0	0	0	0	3
	11-15	14	6	4	1	0	0	0	0	0	25
	16 - 20	5	6	2	0	0	0	0	0	0	13
	21-25	8	0	2	0	1	0	0	0	0	11
	26-30	7	0	0	0	0	1	0	0	0	8
	31-35	8	2	1	0	0	0	0	0	0	11
	36-40	17	8	3	0	0	0	1	0	0	29
	41+	6	1	0	0	0	0	0	0	1	8
	Total	70	23	12	1	1	1	1	0	1	110

The table above shows **110** NIHL cases reported from the platinum sector. The analysis shows **5** cases reported as follows: **2** cases within **10-15%** PLH range and **1-5** years of service; and **3** cases within **10-15%** PLH range and **6-10** years of service.

Table 7.8.3 Analysis of noise-induced hearing loss (NIHL) from coal mines: April 2021- December 2021 HIRs

	Years of service	Percentage loss of hearing (PLH)									
		10-15%	16-20%	21-25%	26-30%	31-35%	36-40%	41-45%	46-50%	>50%	Total
Coal	1 - 5	0	0	0	0	0	0	0	0	0	0
	6 - 10	0	0	0	1	0	0	0	0	0	1
	10-15	1	2	2	0	0	1	1	0	0	7
	16 - 20	1	0	2	0	0	0	0	0	0	3
	21-25	1	0	0	0	0	0	0	0	0	1
	26-30	1	0	0	0	0	0	0	0	0	1
	31-35	1	0	0	0	0	0	0	0	0	1
	36-40	2	0	0	0	0	0	0	0	0	2
	41+	2	0	0	0	0	0	0	0	0	2
	Total	9	2	4	1	0	1	1	0	0	18



Occupational Health and Safety Report: December 2021

The table above shows **18** NIHL cases reported from the coal sector. The analysis shows **1** case reported within **26-30%** PLH and **6-10** years of service and the severity of hearing loss for the case reported raises a concern considering that the employee's years of exposure on the mine/s is ≤ 10 years.

Table 7.8.4 Analysis of noise-induced hearing loss (NIHL) from chrome mines: April 2021- December 2021 HIRs

	Years of service	Percentage loss of hearing (PLH)										
		10-15%	16-20%	21-25%	26-30%	31-35%	36-40%	41-45%	46-50%	>50%	Total	
Chrome	1 - 5	0	0	0	0	0	0	0	0	0	0	0
	6 - 10	2	0	0	0	0	0	0	0	0	0	2
	11-15	1	0	0	0	0	0	0	0	0	0	1
	16 - 20	0	1	0	0	0	0	0	0	0	0	1
	21-25	0	0	0	0	0	0	0	0	0	0	0
	26-30	0	0	0	1	0	0	0	0	0	0	1
	31-35	0	0	0	0	1	0	0	0	0	0	1
	36-40	2	0	0	0	0	0	0	0	0	0	2
	41+	0	0	0	0	0	0	0	0	0	0	0
	Total	5	1	0	1	1	0	0	0	0	0	8

The table above shows **8** NIHL cases reported from the chrome sector. The analysis shows **2** cases reported within **10-15%** PLH range and **6-10** years of service.

7.9 ANALYSIS OF DEATHS DUE TO WORK-RELATED DISEASES

The mines did not report any death cases due to work related diseases during both reporting periods.

7.10 CONCLUSION

A notable improvement on the total number of Health Incident Reports (HIRs) submitted by mines during April-December 2021 can be attributed to various factors including the mining activities almost back to normal; the strides taken by the SAMI on the implementation of the mandatory COVID-19 Code of Practices (CoPs) in line with the revised COVID-19 Guideline, as well as the introduction of the COVID-19 vaccinations.

7.11 RECOMMENDATIONS

The mining industry should continually implement occupational health programmes over and above the implementation of initiatives towards the prevention, mitigation, and management of COVID-19. The mines, particularly gold, platinum, coal, and chrome sector should review their TB and hearing conservation programmes and implement strategies and initiatives towards the reduction of the incidence of occupational lung diseases (OLD) and noise induced hearing loss (NIHL).



8. STATUS REPORT ON THE MINE HEALTH AND SAFETY COUNCIL (MHSC) AWARD SCHEME 2020

Table 8.1 Mines that have achieved the safety awards:

No	Mine	Award	Date recorded	Last fatality (prior to achievement)
1	Mototolo: Lebowa Mine	Thousand (12)	21/01/2021	Never
2	Sibanye Cooke	Million (2)	26/01/2021	27/06/2016
3	Impala Platinum 11 C Shaft	Million (1)	26/01/2021	05/09/2014
4	Impala Platinum 20 Shaft	Million (3)	28/02/2021	28/09/2017
5	Impunzi Opencast	Thousand (18)	29/02/2021	31/03/2004
6	Booyse dal Platinum Mine	Million (6)	05/02/2021	Never
7	Impala Platinum 16 Shaft	Million (3)	06/02/2021	28/09/2017
8	Tharisa Minerals: Mining	Million (3)	10/02/2021	28/09/2015
9	Impala Platinum 1 Shaft	Million (1)	13/02/2021	06/08/2019
10	Wonderfontein Colliery	Thousand (8)	25/02/2021	Never
11	Moab Khotsong	Million (1)	03/03/2021	03/06/2020
12	Khwezela Colliery	Thousand (10)	05/03/2021	10/01/2012
13	Mponeng	Million (1)	15/03/2021	16/04/2020
14	Assmang Manganese Black Rock Mine	Million (9)	23/03/2021	24/04/2009
15	Forzando Colliery South Mine	Thousand (16)	26/03/2021	Never
16	Tharisa Minerals: Processing	Thousand (7)	27/03/2021	05/11/2014
17	Dorstfontein Colliery East Mine	Thousand (10)	18/04/2021	Never
18	Greenside Colliery	Thousand (8)	21/04/2021	20/02/2013
19	Ekapa Resources U/G	Thousand (6)	01/05/2021	22/01/2012
20	Rietvly Silica Mine	Thousand (7)	04/05/2021	Never
21	Goedgevonden Colliery	Thousand (14)	15/05/2021	23/06/2008
22	Helena Mine	Thousand (5)	17/05/2021	20/09/2016
23	Tselentis Colliery	Thousand (19)	31/05/2021	05/09/1991
24	Impala Platinum 11 Shaft	Million (1)	10/06/2021	05/09/2014
25	Impala Platinum 14 Shaft	Million (6)	12/06/2021	23/01/2016



**Occupational Health and Safety Report:
December 2021**

No	Mine	Award	Date recorded	Last fatality (prior to achievement)
26	Ekapa Resources Surface	Thousand (12)	17/06/2021	14/01/2005
27	Forzando Colliery North Mine	Thousand (23)	17/06/2021	15/06/1999
28	Assmang Iron Ore Beeshoek Mine	Thousand (20)	17/07/2021	12/03/2003
29	Thornccliffe Mine	Thousand (3)	19/06/2021	27/08/2018
30	Sibanye Marikana Operations: K 3 Shaft	Million (3)	20/06/2021	19/03/2019
31	Namakwa Diamonds	Thousand (6)	30/06/2021	Never
32	Mototolo: Concentrator	Thousand (13)	30/06/2021	Never
33	Harmony Tshepong	Million (1)	05/07/2021	10/10/2020
34	Sibanye Marikana Operations: 4B/1B Shafts	Million (3)	08/07/2021	29/06/2017
35	Barberton Mines	Million (1)	15/07/2021	21/07/2020
36	Manungu Colliery	Thousand (6)	29/07/2021	Never
37	Sibanye Kloof	Million (1)	07/08/2021	29/03/2021
38	New Vaal Colliery	Thousand (16)	24/08/2021	09/03/2015
39	Modikwa Platinum	Million (1)	31/08/2021	11/10/2020
40	Harmony Doornkop	Million (1)	02/09/2021	10/09/2020
41	Graspan Colliery	Thousand (20)	03/09/2021	Never
42	Mototolo: Borwa Mine	Thousand (8)	10/09/2021	18/10/2011
43	Magareng Mine	Thousand (1)	18/09/2021	20/10/2020
44	Verkeerdepan Colliery	Thousand (3)	01/10/2021	Never
45	Harmony Savuka Gold Plant	Million (4)	11/10/2021	01/01/1961
46	Sibanye Beatrix	Million (1)	14/10/2021	23/04/2021
47	Impala Platinum 12 Shaft	Million (1)	20/10/2021	18/05/2020
48	Sibanye Driefontein	Million (1)	08/11/2021	16/06/2021
49	Impala Platinum 20 Shaft	Million (4)	11/11/2021	28/09/2017
50	Isibonelo Colliery	Thousand (12)	15/11/2021	11/06/2005
51	Dorstfontein Colliery West Mine	Thousand (8)	18/12/2021	15/03/2012