

Index of Mineral Production

2nd Quarter 2022



Executive Summary

This publication presents the Index of Mineral Production (IMP) covering the period 1st quarter 2019 to 2nd quarter 2022. Index of Mineral Production is an economic indicator that shows relative changes in the volume of output for the mining sector over time, in relation to a given reference period.

Construction of the IMP is based on administrative data obtained from the Ministry of Mines and Mining Development. The Laspeyres index formula was used in compilation with

2019 as the base year, in line with the United Nations' International Recommendations for the Index of Industrial Production (IRIIP), 2010.

For 2nd quarter 2022, the Index of Mineral Production stood at **117.0**, reflecting a year-on-year percentage increase of **5.1** when compared to the indicator's value of **111.4** recorded in 2nd quarter 2021.

The quarter-on-quarter comparison shows a **0.1** percent decrease in the index from **117.2** recorded in 1st quarter 2022 to **117.0** in 2nd quarter 2022.

1.0. Introduction

This publication presents the Index of Mineral Production (IMP) covering the period 1st quarter 2019 to 2nd quarter 2022. Also presented are indices for individual minerals that make up the IMP, as well as the year-on-year and quarter-on-quarter percentage changes.

Index of Mineral Production is an economic indicator that shows relative changes in the volume of output for the mining sector over time, in relation to a given reference period. The indicator

summarizes past developments in the sector while informing policy decisions, facilitating forecast of future production trend and allowing for international comparisons.

Compilation of the IMP is in response to calls for the indicator by users, the last of which was produced by ZIMSTAT prior to 2010. Since then, only volumes and values of mineral production were published in the Quarterly Digest of Statistics produced by the Agency.

1.1. Index Compilation

Construction of the IMP is based on administrative data obtained from the Ministry of Mines and Mining Development. The Laspeyres index formula was used in compilation with

2019 as the base year, in line with the United Nations' International Recommendations for the Index of Industrial Production (IRIIP), 2010.

1.2. 2nd Quarter 2022 Index of Mineral Production

The index of mineral production for 2nd quarter 2022 stood at **117.0**, reflecting a year-on-year percentage increase of **5.1** when compared to the 2021 2nd quarter value of **111.4**. The quarter-on-quarter comparison shows a **0.1** percent decrease

in the index from **117.2** recorded in first quarter 2022 to **117.0** in 2nd quarter 2022. The linear graph reflects an increase in mineral production between 1st quarter 2019 and 2nd quarter 2022, on average. (Figure 1).

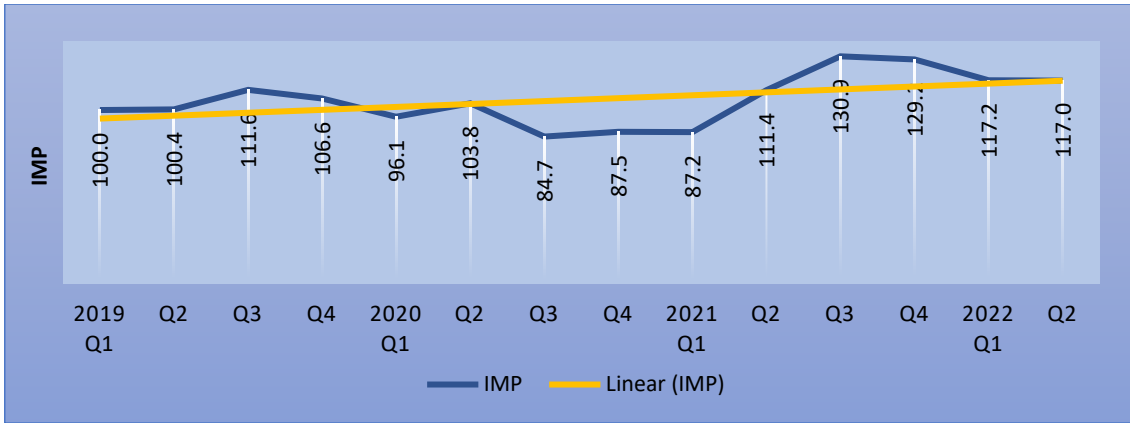


Figure 1: Index of Mineral Production, 1st Quarter 2019 to 2nd Quarter 2022

1.3. Indices for individual minerals

Gold

The output index for gold in 2nd quarter 2022 was **125.7**. This reflected a year-on-year percentage change of **35.1**, as production increased from **6,480** kgs in 2nd quarter 2021 to **8,752** kgs in 2nd quarter 2022. The quarter-on-quarter

comparison shows a **7.2** percent increase in the index from the value of **117.2** recorded in 1st quarter 2022.

The linear graph shows an increase in gold production over time. (Figure 2)

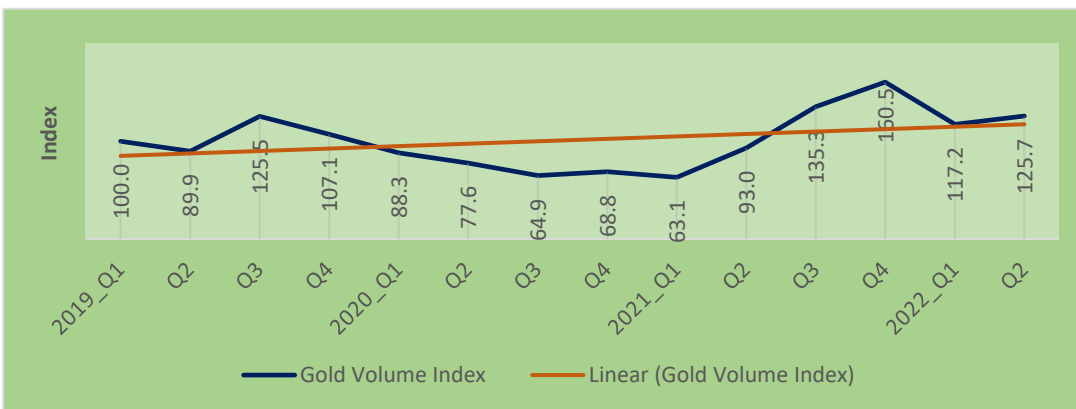


Figure 2: Gold Production Index, 1st Quarter 2019 to 2nd Quarter 2022

Platinum

Platinum output index for 2nd quarter 2022 was **110.9**. The year-on-year index decreased by **11.5** percent from the 2nd

quarter 2021 value of **125.3**. Production of the mineral declined from 4,279 kgs to 3,789 kgs. Quarter-on-quarter analysis

shows a **7.4** percent increase in the index from the 1st quarter 2022 value of **103.3**.

The linear graph shows an increase in platinum output over time. (Figure 3).

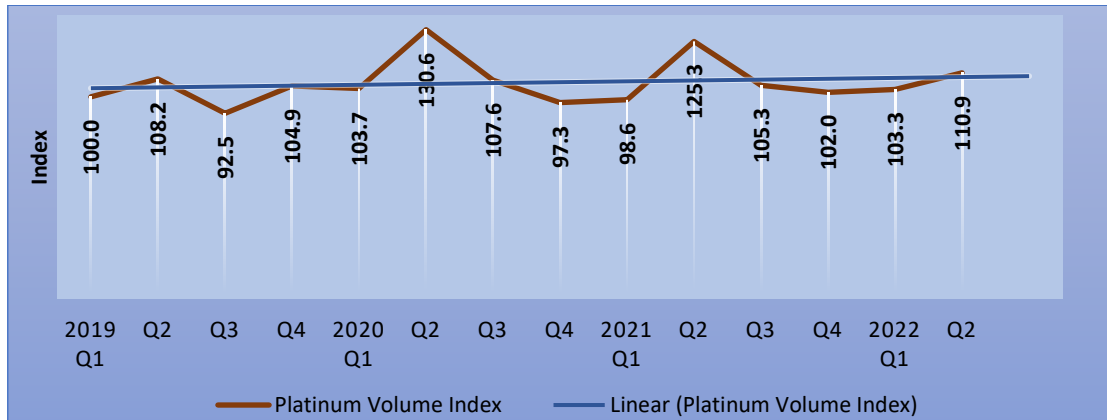


Figure 3: Platinum Production Index, 1st Quarter 2019 to 2nd Quarter 2022

Diamond

Diamond recorded an output index of **205.9** in 2nd quarter 2022. Year-on-year comparison shows a **1.0** percentage increase in the index from **203.8** recorded in 2nd quarter 2021. Output for the mineral increased from 940,082 carats in 2nd quarter 2021 to 949,921 carats in 2nd quarter 2022.

Percentage change for the quarter-on-quarter index was **-10.2**, from the 1st quarter 2022 value of **229.3**.

The linear graph reflects an increase in diamond production over time. (Figure 4).



Figure 4: Diamond Production Index, 1st Quarter 2019 to 2nd Quarter 2022

Nickel

Nickel output index for 2nd quarter 2022 was **48.7**. Year-on-year index comparison recorded a decrease of **51.6** percent as 4,449 mt were produced in 2nd quarter of 2021 and 2,153 mt in 2nd quarter 2022.

Similarly, quarter-on-quarter output index had a percentage decrease of **32.0** from **71.7** recorded in 1st quarter 2022.

The linear graph shows a decrease in nickel production over time. (Figure 5)

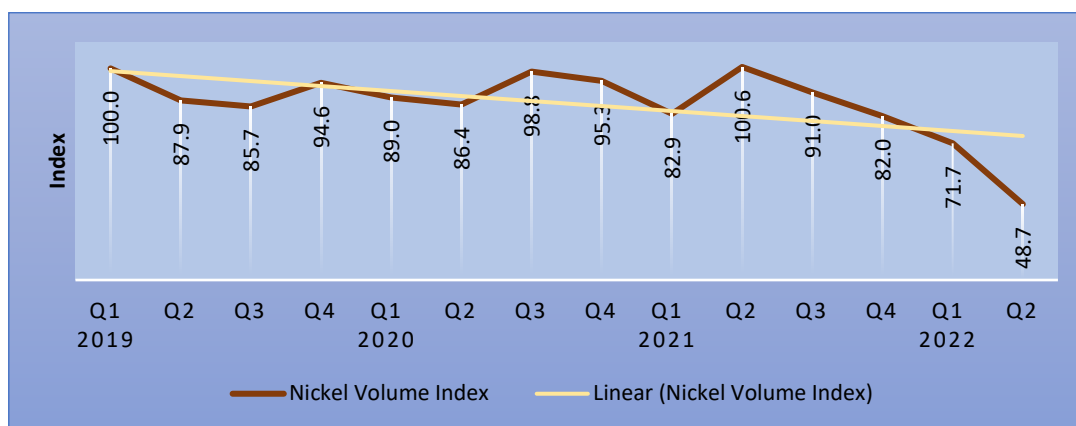


Figure 5: Nickel Index of Mineral Production, 1st Quarter 2019 to 2nd Quarter 2022

Copper

The 2nd quarter 2022 output index for copper was **79.4**. The mineral's year-on-year index analysis shows a decline of **37.8** percent as production went down to **1,688** mt in 2nd quarter 2022 from **2,716** mt in 2nd

quarter 2021. The quarter-on-quarter comparison recorded a **29.1** percent decrease in the output index from **112.0** in 1st quarter 2022. (Figure 6).

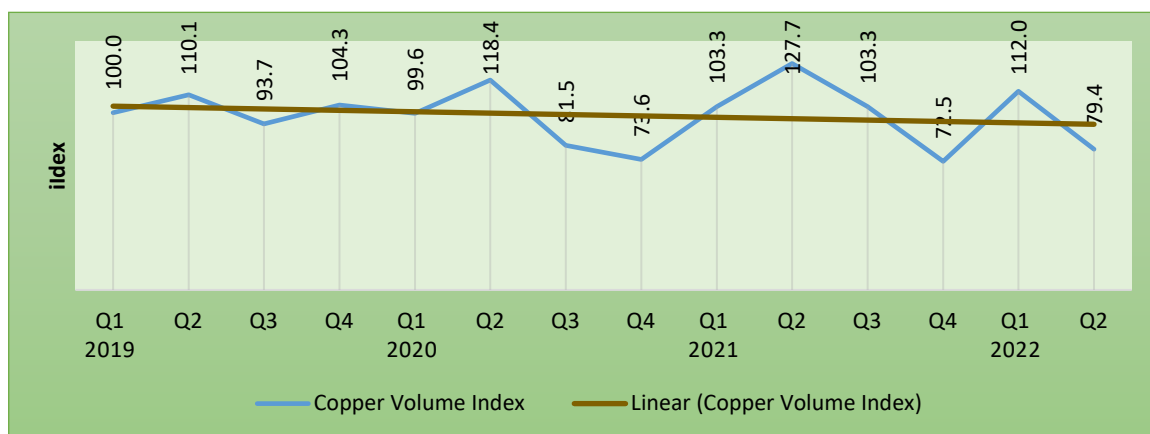


Figure 6: Copper Index of Mineral Production, 1st Quarter 2019 to 2nd Quarter 2022

Coal

Coal recorded an output index of **234.8** in 2nd quarter 2022. Year-on-year index comparison reflects a percentage increase of **27.3** from **184.4** in 2nd quarter 2021. Output went up from 711,633 mt in 2nd quarter 2021 to 905,887 mt for same quarter in 2022.

Quarter-on-quarter analysis shows that output index was **11.3** percent higher than **210.9** recorded in 1st quarter 2022.

The linear graph presents an increase in output over time. (Figure 7)

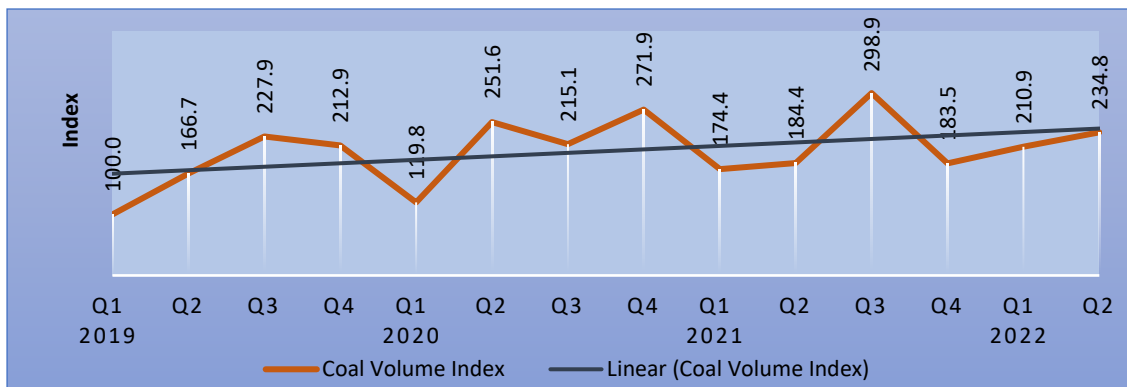


Figure 7: Coal Index of Mineral Production, 1st Quarter 2019 to 2nd Quarter 2022

Lithium

Lithium production index for 2nd quarter 2022 was **99.5** depicting a year-on-year decrease of **25.2** percent from **133.0** in 2nd quarter 2021. Production decreased to 21,070 mt from 15,755 mt in 2nd quarter 2021.

Quarter-on-quarter comparison shows an increase in output index of **45.5** percent from the index value of **68.4** in 1st quarter 2022. The linear graph reflects a decrease in lithium production over time. (Figure 8)

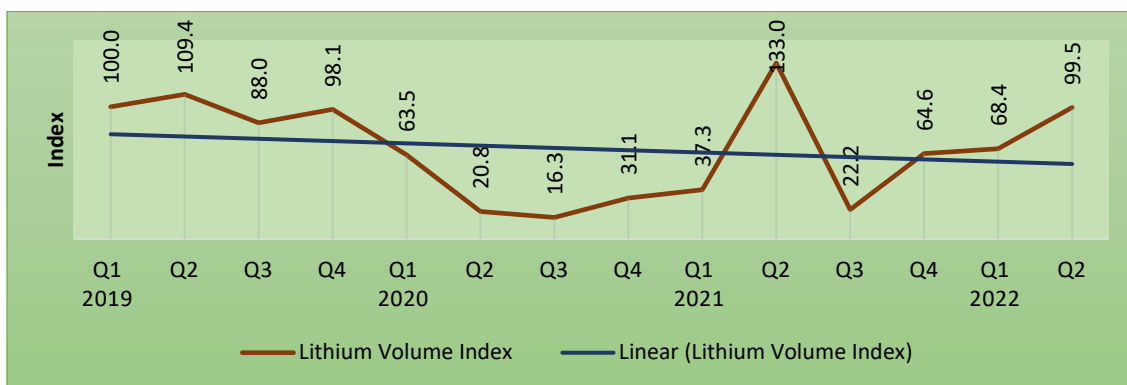


Figure 8: Lithium Index of Mineral Production, 1st Quarter 2019 to 2nd Quarter 2022

Phosphate

The 2nd quarter 2022 output index for phosphate was **55.5**. Year-on-year index analysis depicted a **45.4** percent decline from **101.8** in 2nd quarter 2021. Production decreased to 6,184 mt from 11,336 mt in 2nd quarter 2021.

Quarter-on-quarter comparison shows a **10.1** percent decline in the index from **61.8** recorded in 1st quarter 2022. The linear graph shows phosphate production declining over time. (Figure 9)

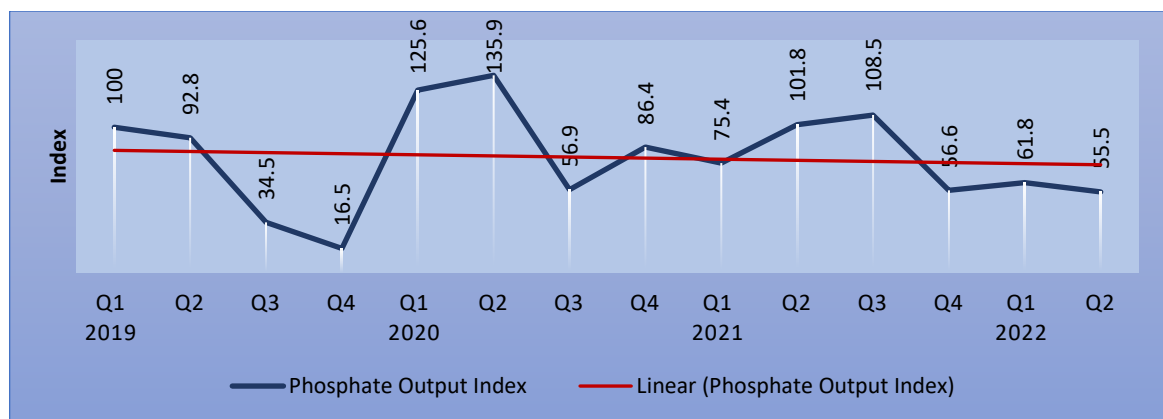


Figure 9: Phosphate Output Index, 1st Quarter 2019 to 2nd Quarter 2022

Granite

Second quarter 2022 production index for granite stood at **287.8**, recording a year-on-year percentage increase of **129.1** when compared to the 2nd quarter 2021 index value of **125.6**. The mineral's production increased from 47,453 mt 2nd

quarter in 2021 to 108,708 mt in 2nd quarter 2022.

Conversely, quarter-on-quarter index comparison shows a percentage decline of **59.0** from **701.9** in 1st quarter 2022. (Figure 10)

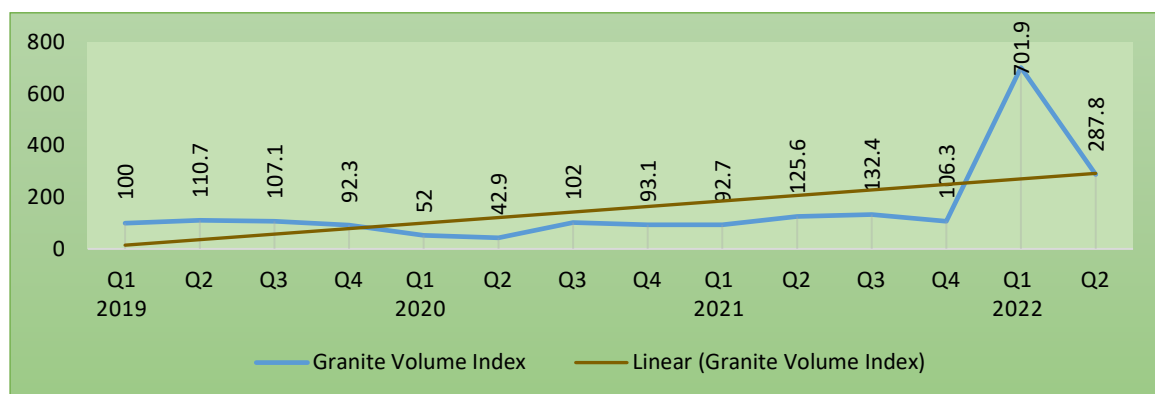


Figure 10: Granite Index of Mineral Production, 1st Quarter 2019 to 2nd Quarter 2022

Table 1: Physical Volume of Mineral Production (1st Quarter 2019 to 2nd Quarter 2022)

Mineral	Gold (kgs)	Platinum (kgs)	Palladium (kgs)	Rhodium (kgs)	Iridium (kgs)	Ruthenium (kgs)	Diamonds (cts)	Chrome (MT)	Nickel (MT)	Copper (MT)	Cobalt (MT)	Coal (MT)	HCFC (MT)	Lithium (MT)	Phosphate (T)	Granite (MT)	Feldspar (MT)	Vermiculite (MT)	
	Weights	40.47	10.34	14.66	3.32	0.44	0.29	4.56	6.24	4.96	1.23	0.21	3.74	8.78	0.24	0.21	0.17	0.03	0.09
2019	Q1	6,965	3,417	2,825	306	210	189	461,348	419,486	4,421	2,126	95	385,843	90,139	15,837	11,136	37,772	859	6,127
	Q2	6,261	3,695	3,085	327	228	211	617,044	366,978	3,884	2,342	102	643,285	81,849	17,326	10,337	41,810	565	5,525
	Q3	8,744	3,159	2,735	279	188	189	479,922	394,253	3,791	1,993	108	879,154	81,241	13,929	3,839	40,440	640	7,515
	Q4	7,458	3,585	2,994	312	219	202	560,875	369,347	4,183	2,217	97	821,640	71,159	15,531	1,836	34,862	384	6,357
2020	Q1	6,152	3,544	2,957	317	216	205	611,333	353,668	3,936	2,119	322	462,140	75,189	10,063	13,989	19,639	0	7,536
	Q2	5,408	4,461	3,780	399	299	224	933,507	350,784	3,818	2,518	72	970,967	37,710	3,293	15,131	16,208	0	7,401
	Q3	4,519	3,675	3,138	345	189	311	541,390	256,192	4,369	1,732	386	830,105	20,694	2,583	6,341	38,518	0	3,781
	Q4	4,794	3,325	3,015	307	133	286	584,228	311,494	4,213	1,564	177	487,672	28,064	4,920	9,623	35,159	0	7,670
2021	Q1	4,397	3,369	2,925	305	162	286	702,639	364,025	3,666	2,196	79	672,862	74,442	5,911	8,392	35,032	0	3,986
	Q2	6,480	4,279	3,715	392	170	364	940,082	372,036	4,449	2,716	93	711,633	71,454	21,070	11,336	47,453	0	6,463
	Q3	9,423	3,598	3,107	327	143	305	1,243,080	321,596	4,022	2,196	88	1,153,391	102,648	3,521	12,087	49,997	0	10,251
	Q4	11,178	3,486	2,873	309	137	295	1,338,500	186,699	3,623	1,541	85	708,125	62,233	10,224	6,298	40,147	0	7,013
2022	Q1	8,166	3,530	3,100	329	127	284	1,057,710	386,576	3,167	2,382	41	813,608	82,617	10,825	6,882	265,120	0	3,255
	Q2	8,752	3,789	3,175	330	128	290	949,921	239,333	2,153	1,688	37	905,887	79,778	15,755	6,184	108,708	0	6,481

Table 2: Index of Volume of Mineral Production (1st Quarter 2019 to 2nd Quarter 2022)

Mineral	Gold	Platinum	Palladium	Rhodium	Iridium	Ruthenium	Diamonds	Chrome	Nickel	Copper	Cobalt	Coal	HCFC	Lithium	Phosphate	Granite	Feldspar	Vermiculite	Quarterly Index	
	Weights	40.5	10.3	14.7	3.3	0.4	0.3	4.6	6.2	5.0	1.2	0.2	3.7	8.8	0.2	0.2	0.2	0.0	0.1	100.0
2019	Q1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Q2	89.9	108.2	109.2	106.7	108.6	111.8	133.7	87.5	87.9	110.1	107.6	166.7	90.8	109.4	92.8	110.7	65.8	90.2	100.4
	Q3	125.5	92.5	96.8	91.0	89.5	100.2	104.0	94.0	85.7	93.7	114.0	227.9	90.1	88.0	34.5	107.1	74.5	122.6	111.6
	Q4	107.1	104.9	106.0	101.9	104.2	106.8	121.6	88.0	94.6	104.3	101.9	212.9	78.9	98.1	16.5	92.3	44.7	103.8	106.6
2020	Q1	88.3	103.7	104.7	103.4	102.8	108.4	132.5	84.3	89.0	99.6	339.2	119.8	83.4	63.5	125.6	52.0	0.0	123.0	96.1
	Q2	77.6	130.6	133.8	130.3	142.2	118.5	202.3	83.6	86.4	118.4	75.7	251.6	41.8	20.8	135.9	42.9	0.0	120.8	103.8
	Q3	64.9	107.6	111.1	112.6	90.2	164.6	117.3	61.1	98.8	81.5	406.3	215.1	23.0	16.3	56.9	102.0	0.0	61.7	84.7
	Q4	68.8	97.3	106.7	100.2	63.3	151.2	126.6	74.3	95.3	73.6	186.2	271.9	31.1	31.1	86.4	93.1	0.0	125.2	87.5
2021	Q1	63.1	98.6	103.5	99.6	77.1	151.1	152.3	86.8	82.9	103.3	83.6	174.4	82.6	37.3	75.4	92.7	0.0	65.1	87.2
	Q2	93.0	125.3	131.5	127.9	80.9	192.5	203.8	88.7	100.6	127.7	98.3	184.4	79.3	133.0	101.8	125.6	0.0	105.5	111.4
	Q3	135.3	105.3	110.0	106.8	55.1	161.2	269.4	76.7	91.0	103.3	93.2	298.9	113.9	22.2	108.5	132.4	0.0	167.3	130.9
	Q4	160.5	102.0	101.7	100.9	65.3	155.8	290.1	44.5	82.0	72.5	89.3	183.5	69.0	64.6	56.6	106.3	0.0	114.5	129.2
2022	Q1	117.2	103.3	109.7	107.3	60.5	150.3	229.3	92.2	71.7	112.0	42.8	210.9	91.7	68.4	61.8	701.9	0.0	53.1	117.2
	Q2	125.7	110.9	112.4	107.8	60.9	153.5	205.9	57.1	48.7	79.4	39.1	234.8	88.5	99.5	55.5	287.8	0.0	105.8	117.0

Table 3: Year-on Year Percentage Change in Volume of Mineral Production Index (1st Quarter 2019 to 2nd Quarter 2022)

Mineral	Gold	Platinum	Palladium	Rhodium	Iridium	Ruthenium	Diamonds	Chrome	Nickel	Copper	Cobalt	Coal	HCFC	Lithium	Phosphate	Granite	Feldspar	Vermiculite	Yearly Percentage change	
Weights	40.47	10.34	14.66	3.32	0.44	0.29	4.56	6.24	4.96	1.23	0.21	3.74	8.78	0.24	0.21	0.17	0.03	0.09	100.00	
2019	Q1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Q2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Q3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Q4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2020	Q1	-11.7	3.7	4.7	3.4	2.8	8.4	32.5	-15.7	-11.0	-0.4	239.2	19.8	-16.6	-36.5	25.6	-48.0	-100.0	23.0	-3.9
	Q2	-13.6	20.7	22.5	22.1	30.9	6.1	51.3	-4.4	-1.7	7.5	-29.7	50.9	-53.9	-81.0	46.4	-61.2	-100.0	34.0	3.4
	Q3	-48.3	16.3	14.7	23.7	0.7	64.4	12.8	-35.0	15.3	-13.1	256.5	-5.6	-74.5	-81.5	65.2	-4.8	-100.0	-49.7	-24.1
	Q4	-35.7	-7.3	0.7	-1.7	-39.3	41.6	4.2	-15.7	0.7	-29.4	82.8	27.7	-60.6	-68.3	424.1	0.9	-100.0	20.6	-17.9
2021	Q1	-28.5	-4.9	-1.1	-3.6	-24.9	39.4	14.9	2.9	-6.9	3.7	-75.4	45.6	-1.0	-41.3	-40.0	78.4	n/a	-47.1	-9.3
	Q2	19.8	-4.1	-1.7	-1.8	-43.1	62.4	0.7	6.1	16.5	7.9	29.9	-26.7	89.5	539.8	-25.1	192.8	n/a	-12.7	7.3
	Q3	108.5	-2.1	-1.0	-5.1	-38.9	-2.1	129.6	25.5	-7.9	26.8	-77.1	38.9	396.0	36.3	90.6	29.8	n/a	171.1	54.7
	Q4	133.1	4.9	-4.7	0.8	3.2	3.1	129.1	-40.1	-14.0	-1.5	-52.0	-32.5	121.8	107.8	-34.6	14.2	n/a	-8.6	47.6
2022	Q1	85.7	4.8	6.0	7.7	-21.6	-0.5	50.5	6.2	-13.6	8.4	-48.8	20.9	11.0	83.1	-18.0	656.8	n/a	-18.3	34.4
	Q2	35.1	-11.5	-14.5	-15.7	-24.7	-20.3	1.0	-35.7	-51.6	-37.8	-60.2	27.3	11.6	-25.2	-45.4	129.1	n/a	0.3	5.1

Table 4: Quarter on Quarter Percentage Change in Volume of Mineral Production Index (1st Quarter 2019 to 2nd Quarter 2022)

Mineral	Gold	Platinum	Palladium	Rhodium	Iridium	Ruthenium	Diamonds	Chrome	Nickel	Copper	Cobalt	Coal	HCFC	Lithium	Phosphate	Granite	Feldspar	Vermiculite	Quarterly Percentage change	
	Weights	40.47	10.34	14.66	3.32	0.44	0.29	4.56	6.24	4.96	1.23	0.21	3.74	8.78	0.24	0.21	0.17	0.03	0.09	100.00
2019	Q1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Q2	-10.1	8.2	9.2	6.7	8.6	11.8	33.7	-12.5	-12.1	10.1	7.6	66.7	-9.2	9.4	-7.2	10.7	-34.2	-9.8	0.4
	Q3	39.7	-14.5	-11.3	-14.7	-17.6	-10.4	-22.2	7.4	-2.4	-14.9	6.0	36.7	-0.7	-19.6	-62.9	-3.3	13.3	36.0	11.1
	Q4	-14.7	13.5	9.5	12.0	16.5	6.6	16.9	-6.3	10.3	11.3	-10.6	-6.5	-12.4	11.5	-52.2	-13.8	-40.0	-15.4	-4.5
2020	Q1	-17.5	-1.2	-1.2	1.4	-1.4	1.6	9.0	-4.2	-5.9	-4.4	232.9	-43.8	5.7	-35.2	661.9	-43.7	-100.0	18.5	-9.8
	Q2	-12.1	25.9	27.8	26.0	38.4	9.3	52.7	-0.8	-3.0	18.8	-77.7	110.1	-49.8	-67.3	8.2	-17.5	n/a	-1.8	8.0
	Q3	-16.4	-17.6	-17.0	-13.6	-36.6	38.9	-42.0	-27.0	14.4	-31.2	437.0	-14.5	-45.1	-21.6	-58.1	137.6	n/a	-48.9	-18.4
	Q4	6.1	-9.5	-3.9	-11.0	-29.8	-8.2	7.9	21.6	-3.6	-9.7	-54.2	26.4	35.6	90.5	51.8	-8.7	n/a	102.8	3.3
2021	Q1	-8.3	1.3	-3.0	-0.5	21.9	0.0	20.3	16.9	-13.0	40.4	-55.1	-35.9	165.3	20.1	-12.8	-0.4	n/a	-48.0	-0.4
	Q2	47.4	27.0	27.0	28.3	4.9	27.4	33.8	2.2	21.3	23.7	17.6	5.8	-4.0	256.5	35.1	35.5	n/a	62.1	27.7
	Q3	45.4	-15.9	-16.4	-16.4	-31.9	-16.2	32.2	-13.6	-9.6	-19.1	-5.2	62.1	43.7	-83.3	6.6	5.4	n/a	58.6	17.6
	Q4	18.6	-3.1	-7.5	-5.5	18.4	-3.4	7.7	-41.9	-9.9	-29.8	-4.2	-38.6	-39.4	190.4	-47.9	-19.7	n/a	-31.6	-1.4
2022	Q1	-26.9	1.3	7.9	6.3	-7.4	-3.5	-21.0	107.1	-12.6	54.5	-52.1	14.9	32.8	5.9	9.3	560.4	n/a	-53.6	-9.3
	Q2	7.2	7.3	2.4	0.5	0.7	2.1	-10.2	-38.1	-32.0	-29.1	-8.6	11.3	-3.4	45.5	-10.1	-59.0	n/a	99.1	-0.1