

Index Of The Physical Volume Of Mining Production

Third Quarter 2025
Stats Brief



Contact Statistician: Mothati Coweditse Madande **Email:** mmadande@statsbots.org.bw **Tel:** (267) 367-1300

Private Bag 0024
Gaborone
Tel: 3671300
Toll Free: 0800 600 200

Private Bag F193,
Francistown
Tel: 241 5848

E-mail:
info@statsbots.org.bw
Website
www.statsbots.org.bw

Four Thirty Square,
Plot 54350
PG Matante Road, CBD
Gaborone



STATISTICS BOTSWANA

Index Of The Physical Volume Of Mining Production

THIRD QUARTER 2025
STATS BRIEF

Table Of Contents

1.0	Preface.....	1
2.0	Summary of Findings.....	2
2.1	Index of Mining Production.....	2
2.2	Mineral Production.....	5
3.0	Technical Notes.....	17
3.1	Background.....	17
3.2	Data Collection.....	17
3.3	Scope of the Survey.....	17
4.0	Concepts, Definitions and Methods.....	17
4.1	Index of the Volume of Mining Productions.....	17
4.2	Base Period.....	17
4.3	Index weighting.....	18
4.4	Seasonal Adjustment.....	18
4.5	Year-On-Year Percentage Change.....	18
4.6	Quarter-on-Quarter Percentage Change.....	18
4.7	Index Contribution (Percentage Points).....	18
4.8	Rounding-off of Figures.....	18
4.9	Calculation of the Index of Mining Production.....	18

List of Tables

Table 1: Key Figures in the Volume of Mining Production 2015Q1 - 2025Q3.....	3
Table 2: Index of Mining Production for the Third Quarter of 2025 by Mineral Groups and Minerals.....	6
Table 3: Physical Volume of Mineral Production 2015Q1 - 2025Q3.....	7
Table 4: Index of the Volume of Mining Production by Mineral Group and Mineral 2015Q1 - 2025Q3.....	9
Table 5: Quarter-on-Quarter Percentage Change in the Volume of Mining Production by Mineral Group and Mineral 2015Q1 - 2025Q3.....	11
Table 6: Year-on-Year Percentage Change in the Volume of Mining Production by Mineral Group and Mineral 2015Q1 - 2025Q3.....	13
Table 7: Contribution of Each Mineral Group and Mineral to the Year-on-Year Percentage Change in the Volume of Mining Production 2015Q1 - 2025Q3.....	15

List of Figures

Figure 1: Total Index of Mining Production 2015Q1 - 2025Q3.....	4
Figure 2: Year-on-Year Percentage Change in the Mining Production 2015Q1 - 2025Q3.....	4



1.0 Preface

Statistics Botswana is mandated to compile data on industrial production in Botswana, hence the Index of Mining Production is confined to minerals extracted across the country. This is intended to monitor the performance of the mining sector in Botswana.

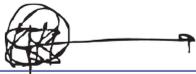
This statistical release presents quarterly Indices of Mining Production (**IMP**) for the period 2015 to the third quarter of 2025. Also included in the report are the annual **IMP** for the period 2015 to 2024, derived as the average of the four quarters of the year. The base year is 2013. Data used in this publication are sourced from the Department of Mines under the Ministry of Minerals and Energy.

The Index of Mining Production stood at 98.3 in the third quarter of 2025 compared to 71.5 registered in the corresponding quarter of 2024, showing a year-on-year increase of 37.5 percent. On a quarter-on-quarter comparison, the index increased by 89.2 percent from 52.0 recorded during the second quarter of 2025.

The release further shows the contribution of each mineral and mineral group to the Year-on-Year Percentage Change in the Volume of Mining Production, and provides the trend in the local mining sector.

For more information, contact the Directorate of Stakeholder Relations on **(+267) 3671300**. All Statistics Botswana outputs/publications are available on the website at www.statsbots.org.bw and at the Statistics Botswana Information Resource Centre.

I sincerely thank all stakeholders involved in the formulation of this brief, for their continued support, as we strive to better serve users of Statistics Botswana products and services.



Dr Khaufelo Raymond Lekobane
Statistician General
December 2025

2.0 Summary of Findings

All figures in this report are not seasonally adjusted.

Table 1 presents a summary of findings for the Index of Mining Production (**IMP**) from the first quarter of 2015 to the third quarter of 2025. This table forms the basis for the discussions under Sub-Section 2.1. Reference, however, is made to this table and other tables throughout the report.

2.1 Index of Mining Production

The Index of Mining Production stood at **98.3** during the third quarter of 2025 compared to **71.5** registered in the same quarter of the previous year, showing a year-on-year increase of **37.5** percent. The main contributor to the increase in mining production growth were Diamonds which contributed **40.5** percentage points, as shown in **Table 2**. In contrast, all other minerals contributed negatively to the overall growth of mining production, with Copper in Concentrates recording the highest decline at 2.0 percentage points.

The quarter-on-quarter analysis indicates a significant increase of **89.2** percent, from an index of **52.0** registered in the second quarter of 2025 to **98.3** observed during the period under review.

TABLE 1: Key Figures in the Volume of Mining Production 2015Q1 - 2025Q3

Base Period : 2013=100			
Period	Index of the physical volume of mining production	Year-on-year percentage change	Quarter-on-Quarter percentage change
Q1_2015	95.6	(0.7)	(8.6)
Q2_2015	98.7	(7.4)	3.3
Q3_2015	65.6	(37.9)	(33.5)
Q4_2015	77.9	(25.5)	18.7
Q1_2016	90.1	(5.7)	15.7
Q2_2016	86.0	(12.9)	(4.5)
Q3_2016	73.7	12.3	(14.3)
Q4_2016	82.4	5.8	11.8
Q1_2017	77.1	(14.4)	(6.4)
Q2_2017	87.9	2.1	13.9
Q3_2017	91.0	23.4	3.5
Q4_2017	82.8	0.5	(9.0)
Q1_2018	86.9	12.6	4.9
Q2_2018	94.0	7.0	8.3
Q3_2018	87.1	(4.2)	(7.4)
Q4_2018	95.3	15.1	9.4
Q1_2019	89.6	3.1	(6.0)
Q2_2019	85.9	(8.7)	(4.1)
Q3_2019	85.8	(1.5)	(0.1)
Q4_2019	87.8	(7.9)	2.3
Q1_2020	84.6	(5.5)	(3.6)
Q2_2020	30.0	(65.1)	(64.6)
Q3_2020	72.5	(15.5)	141.9
Q4_2020	64.0	(27.1)	(11.7)
Q1_2021	74.4	(12.1)	16.2
Q2_2021	85.6	185.6	15.0
Q3_2021	101.9	40.6	19.1
Q4_2021	82.0	28.1	(19.6)
Q1_2022	98.3	32.1	19.9
Q2_2022	90.6	5.9	(7.8)
Q3_2022	109.0	6.9	20.3
Q4_2022	97.3	18.7	(10.7)
Q1_2023	114.3	16.2	17.4
Q2_2023	98.1	8.2	(14.2)
Q3_2023	98.3	(9.8)	0.2
Q4_2023	101.8	4.6	3.6
Q1_2024	84.9	(25.7)	(16.6)
Q2_2024	79.4	(19.0)	(6.5)
Q3_2024	71.5	(27.2)	(9.9)
Q4_2024	74.0	(27.3)	3.5
Q1_2025	77.2	(9.0)	4.3
Q2_2025	52.0	(34.6)	(32.7)
Q3_2025	98.3	37.5	89.2

Figure 1: Total Index of Mining Production 2015Q1 - 2025Q3

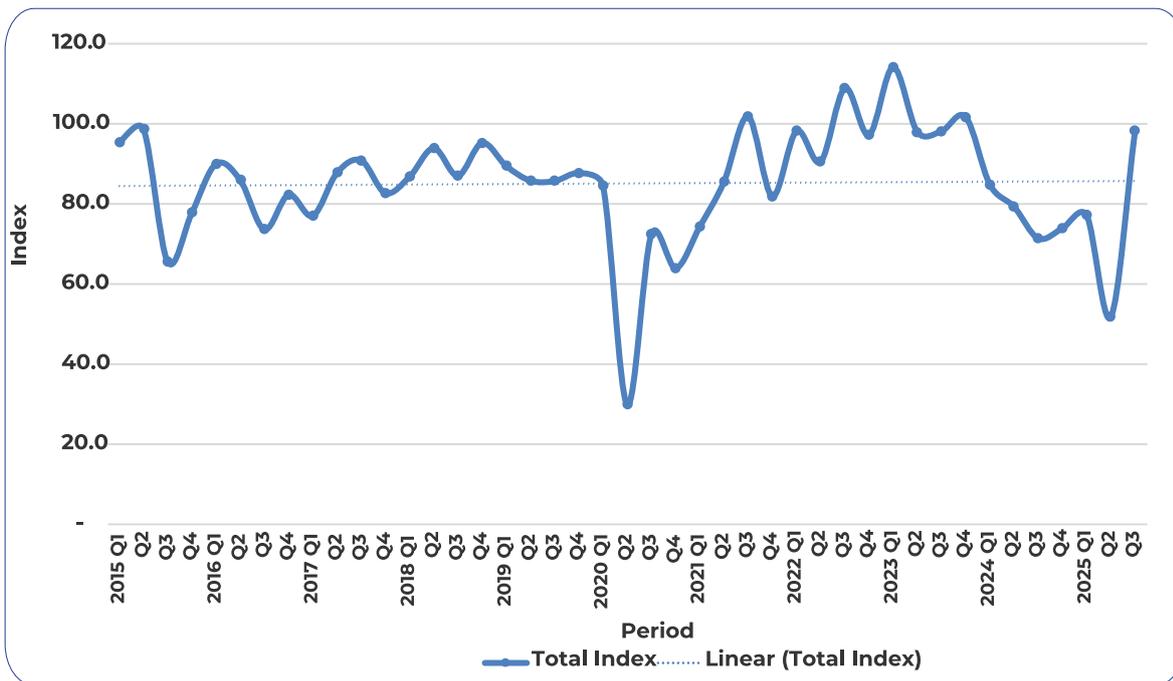
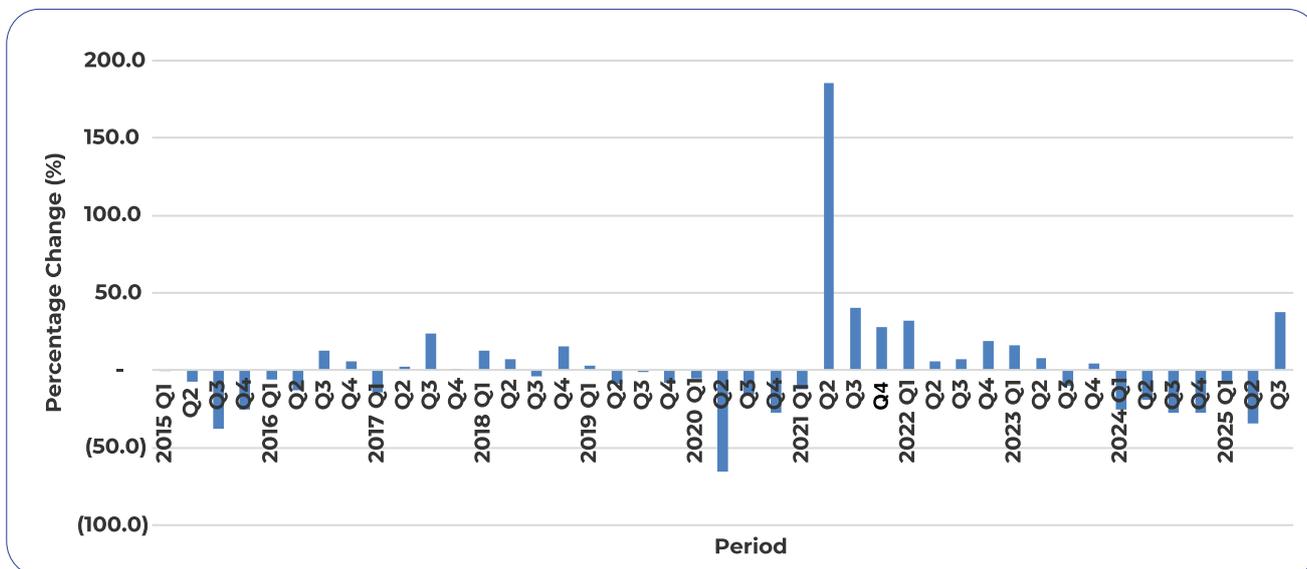


Figure 1 shows the graphical presentation of the Total Index of Mining Production from the first quarter of 2015 to the third quarter of 2025.

Figure 2: Year-on-Year Percentage Change in the Mining Production 2015Q1 - 2025Q3



2.2 Mineral Production

The discussions on mineral production compares production during the third quarter of 2025 to the same quarter of 2024, and are based on Table 2, Table 3 and Table 6. Table 5 provides analysis of the mineral production for the quarter under review, in comparison to the preceding quarter.

Diamond production recorded an increase of **49.5** percent (2,029 thousand carats), from 4,098 thousand carats during the third quarter of 2024 to 6,127 thousand carats in the third quarter of 2025. The increase marks a positive turnaround after six consecutive quarters of decline since the first quarter of 2024. The improvement in production mainly reflects better plant performance, as operations ran at full capacity during the third quarter of 2025. Similarly, a quarter-on-quarter analysis shows an increase of **123.9** percent (3,391 thousand carats), during the third quarter of 2025, from 2,736 thousand carats produced during the second quarter of 2025.

Copper in Concentrates production declined by 14.5 percent (1,882 tonnes), from 13,001 tonnes during the third quarter of 2024 to **11, 119 tonnes** during the period under review. Similarly, a quarter-on-quarter analysis indicates that production declined by 15.8 percent (2,079 tonnes) in the third quarter of 2025, from 13,198 tonnes recorded in the second quarter of 2025.

Soda Ash production declined by 27.8 percent (23, 769 tonnes), from 85, 471 tonnes during the third quarter of 2024 to 61, 702 tonnes produced during the period under review. Similarly, quarter-on-quarter analysis shows that production declined by 9.0 percent (6,077 tonnes) during the third quarter of 2025, from 67, 779 tonnes recorded during the second quarter of 2025. This decrease was primarily attributed to the alterations in the scheduling of the annual maintenance shutdown.

Salt production decreased by 7.1 percent (7,203 tonnes), from 101,136 tonnes in the third quarter of 2024 to 93,933 tonnes during the quarter under review. Similarly, a quarter-on-quarter comparison shows a decrease of 19.4 percent (22,578 tonnes), from 116,512 tonnes recorded in the second quarter of 2025.

Silver production decreased by 27.7 percent (2,675 kilograms), from 9,643 kilograms in the third quarter of 2024 to **6,968 kilograms** during the period under review. Similarly, a quarter-on-quarter analysis shows a 31.0 percent decrease (3, 131 kilograms) in the third quarter of 2025, from 10,099 kilograms recorded in the second quarter of 2025.

Coal production declined by 12.6 percent (87,795 tonnes), decreasing from 697,054 tonnes in the third quarter of 2024 to 609,259 tonnes during the current quarter. Although production declined, it is important to note that there was no shortfall in coal supply due to adequate stockpiling. On the other hand, a quarter-on-quarter comparison indicates an increase of 11.9 percent (65,017 tonnes), with production increasing from 544,242 tonnes recorded in the second quarter of 2025.

Copper-Nickel-Cobalt Matte and Gold, recorded zero production during the period under review. The affected mines are still undergoing provisional liquidation.

TABLE 2: Index of Mining Production for the latest Quarter by Mineral Groups and Minerals

Base:2013=100					
Mineral	Weights (2013)	Jul-Sep 2024	Jul-Sep 2025	Year-on-Year Percentage Change	Contribution (% points) to the Percentage Change in the total Mining Production
Diamonds	82.5	70.9	105.9	49.5	40.5
Copper-Nickel-Cobalt Matte	8.6	n.a.	n.a.	n.a.	n.a.
Copper in Concentrates	5.5	184.8	158.0	(14.5)	(2.0)
Gold	1.4	n.a.	n.a.	n.a.	n.a.
Soda Ash	0.9	150.0	108.3	(27.8)	(0.5)
Salt	0.5	77.6	72.1	(7.1)	(0.0)
Silver	0.4	170.7	123.3	(27.7)	(0.3)
Coal	0.3	186.4	162.9	(12.6)	(0.1)
Total	100	71.5	98.3	37.5	37.5

- NB:1.** The contribution (percentage points) of a mineral to the percentage change in the total mining production is calculated by multiplying the difference in the index for the mineral by the weight of the mineral and then dividing by the previous period's total index.
2. () denotes negative numbers
 3. n.a. signifies data not available/no production during the specified period.

TABLE 3: PHYSICAL VOLUME OF MINERAL PRODUCTION

Mineral/ Unit of measure		Copper-Nickel-Cobalt Matte					Copper in Concen- trates	Gold	Soda Ash	Salt	Silver	Coal
		Diamonds	Matte	Copper	Nickel	Cobalt						
		('000 carats)	(tonnes)	(tonnes)	(tonnes)	(tonnes)	Kg	(tonnes)	(tonnes)	Kg	(tonnes)	
Year												
2015		20,823	30,993	13,888	16,789	316	8,396	753	243,369	404,295	2,801	2,065,778
2016		20,892	30,279	13,120	16,878	281	n.a.	832	280,457	399,837	n.a.	1,870,939
2017		22,941	n.a.	n.a.	n.a.	n.a.	1,239	921	226,667	369,613	n.a.	2,215,782
2018		24,496	n.a.	n.a.	n.a.	n.a.	1,462	1,105	297,237	392,244	n.a.	2,482,313
2019		23,686	-	-	-	-	-	943	264,119	383,779	-	2,110,891
2020		16,868	-	-	-	-	-	851	238,476	418,379	-	1,923,992
2021		22,696	-	-	-	-	11,742	649	261,838	484,628	10,383	2,021,218
2022		24,479	-	-	-	-	44,269	427	285,215	323,303	31,174	2,460,868
2023		25,095	-	-	-	-	54,808	331	262,052	387,956	42,955	2,064,373
2024		18,324	-	-	-	-	48,758	20	298,417	370,021	35,438	2,454,559
2012	Q1	5,352	12,216	6,183	5,970	63	1,676	406	60,354	85,746	n.a.	234,213
	Q2	5,346	11,054	5,462	5,532	60	1,609	361	56,541	101,983	n.a.	224,757
	Q3	4,384	2,843	1,424	1,404	14	2,881	329	73,583	75,854	n.a.	444,360
	Q4	5,537	9,645	4,551	5,036	58	2,577	281	58,151	104,166	n.a.	551,074
2013	Q1	4,658	9,766	4,501	5,203	62	6,612	231	70,049	126,420	5,777	401,939
	Q2	6,462	12,471	6,047	6,358	66	8,127	297	50,710	152,223	6,670	278,947
	Q3	5,541	11,961	5,894	6,000	67	6,555	309	64,311	154,529	6,099	425,630
	Q4	6,473	10,198	4,858	5,287	53	6,852	370	42,843	88,134	4,051	389,137
2014	Q1	5,870	5,193	2,447	2,715	31	6,819	291	62,090	89,417	4,136	355,096
	Q2	6,364	8,148	3,964	4,134	50	8,069	224	65,846	131,405	4,998	463,235
	Q3	6,321	5,732	2,880	2,810	42	9,573	255	66,818	151,481	7,648	488,335
	Q4	6,103	10,709	5,337	5,299	73	7,632	188	73,775	143,008	5,506	404,889
2015	Q1	5,734	9,724	4,423	5,169	132	5,230	156	41,836	80,244	2,801	474,619
	Q2	6,022	11,675	5,127	6,439	109	2,135	150	55,199	79,655	n.a.	505,016
	Q3	4,207	2,204	989	1,194	21	1,031	235	71,562	138,924	n.a.	578,979
	Q4	4,860	7,390	3,349	3,987	54	n.a.	212	74,772	105,472	n.a.	507,164
2016	Q1	5,429	13,208	5,777	7,303	128	n.a.	181	67,204	87,696	n.a.	427,894
	Q2	5,305	10,370	4,464	5,801	105	n.a.	244	47,850	73,695	n.a.	350,987
	Q3	4,601	6,701	2,879	3,774	48	n.a.	194	79,397	113,305	n.a.	549,352
	Q4	5,557	n.a.	n.a.	n.a.	n.a.	n.a.	213	86,006	125,141	n.a.	542,706
2017	Q1	5,280	n.a.	n.a.	n.a.	n.a.	n.a.	141	40,975	59,926	n.a.	490,650
	Q2	5,976	n.a.	n.a.	n.a.	n.a.	689	209	35,780	52,853	n.a.	575,250
	Q3	6,117	n.a.	n.a.	n.a.	n.a.	340	297	71,868	153,283	n.a.	583,719
	Q4	5,568	n.a.	n.a.	n.a.	n.a.	210	274	78,044	103,551	n.a.	566,163
2018	Q1	5,885	n.a.	n.a.	n.a.	n.a.	135	238	64,510	85,987	n.a.	597,298
	Q2	6,360	n.a.	n.a.	n.a.	n.a.	547	314	51,189	58,972	n.a.	664,448
	Q3	5,825	n.a.	n.a.	n.a.	n.a.	625	265	96,136	104,507	n.a.	667,782
	Q4	6,426	n.a.	n.a.	n.a.	n.a.	155	288	85,402	142,778	n.a.	552,785

TABLE 3 CONT'D: PHYSICAL VOLUME OF MINERAL PRODUCTION

Mineral/ Unit of measure	Diamonds	Copper-Nickel-Cobalt Matte				Copper in Concentrates	Gold	Soda Ash	Salt	Silver	Coal	
		Matte	Copper	Nickel	Cobalt							
	('000 carats)	(tonnes)	(tonnes)	(tonnes)	(tonnes)	(tonnes)	Kg	(tonnes)	(tonnes)	Kg	(tonnes)	
Year												
2019	Q1	6,081	n.a.	n.a.	n.a.	n.a.	198	73,940	111,468	n.a.	554,636	
	Q2	5,828	n.a.	n.a.	n.a.	n.a.	270	51,229	86,686	n.a.	622,620	
	Q3	5,804	n.a.	n.a.	n.a.	n.a.	262	76,432	86,539	n.a.	476,494	
	Q4	5,973	n.a.	n.a.	n.a.	n.a.	213	62,518	99,086	n.a.	457,141	
2020	Q1	5,737	n.a.	n.a.	n.a.	n.a.	212	64,460	114,245	n.a.	581,910	
	Q2	1,925	n.a.	n.a.	n.a.	n.a.	177	67,974	100,507	n.a.	368,907	
	Q3	4,916	n.a.	n.a.	n.a.	n.a.	241	35,883	91,261	n.a.	543,793	
	Q4	4,290	n.a.	n.a.	n.a.	n.a.	222	70,159	112,366	n.a.	429,382	
2021	Q1	5,040	n.a.	n.a.	n.a.	n.a.	174	71,638	69,275	n.a.	516,868	
	Q2	5,827	n.a.	n.a.	n.a.	n.a.	186	57,962	101,776	n.a.	485,642	
	Q3	6,500	n.a.	n.a.	n.a.	n.a.	7,517	176	65,195	169,826	6,757	549,227
	Q4	5,329	n.a.	n.a.	n.a.	n.a.	4,225	113	67,043	143,751	3,626	469,481
2022	Q1	6,299	n.a.	n.a.	n.a.	n.a.	7,363	122	75,241	59,714	5,178	547,921
	Q2	5,576	n.a.	n.a.	n.a.	n.a.	10,619	150	61,647	54,124	7,542	599,474
	Q3	6,726	n.a.	n.a.	n.a.	n.a.	12,580	83	82,224	135,831	8,507	662,262
	Q4	5,878	n.a.	n.a.	n.a.	n.a.	13,707	71	66,103	73,634	9,947	651,211
2023	Q1	6,989	n.a.	n.a.	n.a.	n.a.	14,872	70	59,040	92,107	12,582	644,674
	Q2	5,922	n.a.	n.a.	n.a.	n.a.	14,096	105	45,502	71,781	10,737	470,878
	Q3	5,944	n.a.	n.a.	n.a.	n.a.	13,081	83	77,730	155,882	10,119	521,535
	Q4	6,241	n.a.	n.a.	n.a.	n.a.	12,759	72	79,780	68,186	9,517	427,286
2024	Q1	5,076	n.a.	n.a.	n.a.	n.a.	12,433	20	81,129	107,860	9,273	519,155
	Q2	4,812	n.a.	n.a.	n.a.	n.a.	11,217	n.a.	49,335	79,192	7,696	555,114
	Q3	4,098	n.a.	n.a.	n.a.	n.a.	13,001	n.a.	85,471	101,136	9,643	697,054
	Q4	4,338	n.a.	n.a.	n.a.	n.a.	12,107	n.a.	82,482	81,833	8,826	683,236
2025	Q1	4,665	n.a.	n.a.	n.a.	n.a.	11,415	n.a.	35,147	41,366	9,145	627,382
	Q2	2,736	n.a.	n.a.	n.a.	n.a.	13,198	n.a.	67,779	116,512	10,099	544,242
	Q3	6,127	n.a.	n.a.	n.a.	n.a.	11,119	n.a.	61,702	93,933	6,968	609,259

Source: Department of Mines

**TABLE 4: Index of the Volume of Mining Production by Mineral Group and Mineral
2015Q1 - 2025Q3**

BASE 2013 = 100									
	Diamonds	Copper-Nickel-Cobalt Matte	Copper in concentrates	Gold	Soda Ash	Salt	Silver	Coal	Total Index
Weights	82.5	8.6	5.5	1.4	0.9	0.5	0.4	0.3	100.0
2015	90.0	69.8	29.8	62.4	106.8	71.7	12.4	138.1	84.5
2016	90.3	68.2	n.a.	69.0	123.1	76.7	n.a.	125.1	83.1
2017	99.2	n.a.	4.4	76.3	99.5	70.9	n.a.	148.1	84.7
2018	105.9	n.a.	5.2	91.6	130.4	75.2	n.a.	166.0	90.8
2019	102.4	n.a.	n.a.	78.1	115.9	73.6	n.a.	141.1	87.3
2020	72.9	n.a.	n.a.	70.5	104.6	80.3	n.a.	128.6	62.8
2021	98.1	n.a.	41.7	53.8	114.9	93.0	45.9	135.1	86.0
2022	105.8	n.a.	157.3	35.3	125.1	62.0	138.0	164.5	98.8
2023	108.5	n.a.	194.7	27.4	115.0	74.4	190.1	138.0	103.1
2024	79.2	n.a.	173.2	1.7	130.9	71.0	157.0	164.1	77.5
2015 Q1									
Q1	99.1	87.6	74.3	51.7	73.4	61.6	49.6	126.9	95.6
Q2	104.1	105.2	30.3	49.7	96.9	61.1	n.a.	135.1	98.7
Q3	72.7	19.9	14.7	77.9	125.6	106.6	n.a.	154.8	65.6
Q4	84.0	66.6	n.a.	70.3	131.2	80.9	n.a.	135.6	77.9
2016 Q1									
Q1	93.9	119.0	n.a.	60.0	117.9	67.3	n.a.	114.4	90.1
Q2	91.7	93.4	n.a.	80.9	84.0	56.5	n.a.	93.9	86.0
Q3	79.6	60.4	n.a.	64.3	139.3	86.9	n.a.	146.9	73.7
Q4	96.1	n.a.	n.a.	70.6	150.9	96.0	n.a.	145.1	82.4
2017 Q1									
Q1	91.3	n.a.	n.a.	46.7	71.9	46.0	n.a.	131.2	77.1
Q2	103.3	n.a.	9.8	69.2	62.8	40.6	n.a.	153.8	87.9
Q3	105.8	n.a.	4.8	98.5	126.1	117.6	n.a.	156.1	91.0
Q4	96.3	n.a.	3.0	90.8	137.0	79.5	n.a.	151.4	82.8
2018 Q1									
Q1	101.8	n.a.	1.9	78.9	113.2	66.0	n.a.	159.7	86.9
Q2	110.0	n.a.	7.8	104.1	89.8	45.2	n.a.	177.7	94.0
Q3	100.7	n.a.	8.9	87.8	168.7	80.2	n.a.	178.6	87.1
Q4	111.1	n.a.	2.2	95.5	149.9	109.6	n.a.	147.8	95.3
2019 Q1									
Q1	105.1	n.a.	n.a.	65.6	129.8	85.5	n.a.	148.3	89.6
Q2	100.8	n.a.	n.a.	89.5	89.9	66.5	n.a.	166.5	85.9
Q3	100.4	n.a.	n.a.	87.0	134.1	66.4	n.a.	127.4	85.8
Q4	103.3	n.a.	n.a.	70.5	109.7	76.0	n.a.	122.3	87.8
2020 Q1									
Q1	99.2	n.a.	n.a.	70.3	113.1	87.7	n.a.	155.6	84.6
Q2	33.3	n.a.	n.a.	58.7	119.3	77.1	n.a.	98.7	30.0
Q3	85.0	n.a.	n.a.	79.8	63.0	70.0	n.a.	145.4	72.5
Q4	74.2	n.a.	n.a.	73.4	123.1	86.2	n.a.	114.8	64.0
2021 Q1									
Q1	87.1	n.a.	n.a.	57.7	125.7	53.2	n.a.	138.2	74.4
Q2	100.8	n.a.	n.a.	61.8	101.7	78.1	n.a.	129.9	85.6
Q3	112.4	n.a.	106.8	58.3	114.4	130.3	119.6	146.9	101.9
Q4	92.1	n.a.	60.0	37.4	117.7	110.3	64.2	125.6	82.0

TABLE 4 CONT'D: Index of the Volume of Mining Production by Mineral Group and Mineral 2015Q1 - 2025Q3

BASE 2013 = 100									
	Diamonds	Copper-Nickel-Cobalt Matte	Copper in concentrates	Gold	Soda Ash	Salt	Silver	Coal	Total Index
Weights	82.5	8.6	5.5	1.4	0.9	0.5	0.4	0.3	100.0
2022 Q1	108.9	n.a.	104.4	40.4	132.1	45.8	91.7	146.5	98.3
Q2	96.4	n.a.	150.9	49.9	108.2	41.5	133.5	160.3	90.6
Q3	116.3	n.a.	178.8	27.5	144.3	104.2	150.6	177.1	109.0
Q4	101.6	n.a.	194.8	23.6	116.0	56.5	176.1	174.2	97.3
2023 Q1	120.8	n.a.	211.4	23.1	103.6	70.7	222.7	172.4	114.3
Q2	102.4	n.a.	200.3	35.0	79.9	55.1	190.1	125.9	98.1
Q3	102.8	n.a.	185.9	27.6	136.4	119.6	179.1	139.5	98.3
Q4	107.9	n.a.	181.3	23.9	140.0	52.3	168.5	114.3	101.8
2024 Q1	87.8	n.a.	176.7	6.6	142.4	82.8	164.1	138.8	84.9
Q2	83.2	n.a.	159.4	n.a.	86.6	60.8	136.2	148.5	79.4
Q3	70.9	n.a.	184.8	n.a.	150.0	77.6	170.7	186.4	71.5
Q4	75.0	n.a.	172.1	n.a.	144.8	62.8	156.2	182.7	74.0
2025 Q1	80.7	n.a.	162.2	n.a.	61.7	31.7	161.9	167.8	77.2
Q2	47.3	n.a.	187.6	n.a.	119.0	89.4	178.8	145.6	52.0
Q3	105.9	n.a.	158.0	n.a.	108.3	72.1	123.3	162.9	98.3

Note: 1. n.a. Signifies data not available/no production during the specified period.

TABLE 5: Quarter- on- Quarter Percentage Change in the Volume of Mining Production by Mineral Group and Mineral 2015Q1 - 2025Q3

BASE 2013 = 100									
	Diamonds	Copper-Nickel- -Cobalt Matte	Copper in Concentrate	Gold	Soda Ash	Salt	Silver	Coal	Total
Year/ Weights	82.5	8.6	5.5	1.4	0.9	0.5	0.4	0.3	100
2015 Q1	(6.0)	(9.2)	(31.5)	(17.0)	(43.3)	(43.9)	(49.1)	17.2	(8.6)
Q2	5.0	20.1	(59.2)	(3.8)	31.9	(0.7)	(100.0)	6.4	3.3
Q3	(30.1)	(81.1)	(51.7)	56.7	29.6	74.4	n.a.	14.6	(33.5)
Q4	15.5	235.3	(100.0)	(9.7)	4.5	(24.1)	n.a.	(12.4)	18.7
2016 Q1	11.7	78.7	n.a.	(14.7)	(10.1)	(16.9)	n.a.	(15.6)	15.7
Q2	(2.3)	(21.5)	n.a.	34.8	(28.8)	(16.0)	n.a.	(18.0)	(4.5)
Q3	(13.3)	(35.4)	n.a.	(20.5)	65.9	53.7	n.a.	56.5	(14.3)
Q4	20.8	(100.0)	n.a.	9.8	8.3	10.4	n.a.	(1.2)	11.8
2017 Q1	(5.0)	n.a.	n.a.	(33.8)	(52.4)	(52.1)	n.a.	(9.6)	(6.4)
Q2	13.2	n.a.	n.a.	48.2	(12.7)	(11.8)	n.a.	17.2	13.9
Q3	2.4	n.a.	(50.7)	41.9	100.9	190.0	n.a.	1.5	3.5
Q4	(9.0)	n.a.	(38.2)	(7.6)	8.6	(32.4)	n.a.	(3.0)	(9.0)
2018 Q1	5.7	n.a.	(35.7)	(13.2)	(17.3)	(17.0)	n.a.	5.5	4.9
Q2	8.1	n.a.	305.2	32.0	(20.6)	(31.4)	n.a.	11.2	8.3
Q3	(8.4)	n.a.	14.3	(15.6)	87.8	77.2	n.a.	0.5	(7.4)
Q4	10.3	n.a.	(75.2)	8.7	(11.2)	36.6	n.a.	(17.2)	9.4
2019 Q1	(5.4)	n.a.	(100.0)	(31.3)	(13.4)	(21.9)	n.a.	0.3	(6.0)
Q2	(4.2)	n.a.	n.a.	36.6	(30.7)	(22.2)	n.a.	12.3	(4.1)
Q3	(0.4)	n.a.	n.a.	(2.9)	49.2	(0.2)	n.a.	(23.5)	(0.1)
Q4	2.9	n.a.	n.a.	(18.9)	(18.2)	14.5	n.a.	(4.1)	2.3
2020 Q1	(4.0)	n.a.	n.a.	(0.3)	3.1	15.3	n.a.	27.3	(3.6)
Q2	(66.4)	n.a.	n.a.	(16.5)	5.5	(12.0)	n.a.	(36.6)	(64.6)
Q3	155.3	n.a.	n.a.	36.0	(47.2)	(9.2)	n.a.	47.4	141.9
Q4	(12.7)	n.a.	n.a.	(8.0)	95.5	23.1	n.a.	(21.0)	(11.7)
2021 Q1	17.5	n.a.	n.a.	(21.4)	2.1	(38.3)	n.a.	20.4	16.2
Q2	15.6	n.a.	n.a.	7.0	(19.1)	46.9	n.a.	(6.0)	15.0
Q3	11.6	n.a.	n.a.	(5.5)	12.5	66.9	n.a.	13.1	19.1
Q4	(18.0)	n.a.	(43.8)	(35.9)	2.8	(15.4)	(46.3)	(14.5)	(19.6)
2022 Q1	18.2	n.a.	74.3	8.1	12.2	(58.5)	42.8	16.7	19.9
Q2	(11.5)	n.a.	44.2	23.4	(18.1)	(9.4)	45.6	9.4	(7.8)
Q3	20.6	n.a.	18.5	(44.9)	33.4	151.0	12.8	10.5	20.3
Q4	(12.6)	n.a.	9.0	(14.1)	(19.6)	(45.8)	16.9	(1.7)	(10.7)
2023 Q1	18.9	n.a.	8.5	(2.0)	(10.7)	25.1	26.5	(1.0)	17.4
Q2	(15.3)	n.a.	(5.2)	51.2	(22.9)	(22.1)	(14.7)	(27.0)	(14.2)
Q3	0.4	n.a.	(7.2)	(20.9)	70.8	117.2	(5.8)	10.8	0.2
Q4	5.0	n.a.	(2.5)	(13.5)	2.6	(56.3)	(6.0)	(18.1)	3.6

TABLE 5 CONT'D: Quarter- on- Quarter Percentage Change in the Volume of Mining Production by Mineral Group and Mineral 2015Q1 - 2025Q3

BASE 2013 = 100									
	Diamonds	Copper-Nickel- -Cobalt Matte	Copper in Concentrate	Gold	Soda Ash	Salt	Silver	Coal	Total
Year/ Weights	82.5	8.6	5.5	1.4	0.9	0.5	0.4	0.3	100
2023 Q1	18.9	n.a.	8.5	(2.0)	(10.7)	25.1	26.5	(1.0)	17.4
Q2	(15.3)	n.a.	(5.2)	51.2	(22.9)	(22.1)	(14.7)	(27.0)	(14.2)
Q3	0.4	n.a.	(7.2)	(20.9)	70.8	117.2	(5.8)	10.8	0.2
Q4	5.0	n.a.	(2.5)	(13.5)	2.6	(56.3)	(6.0)	(18.1)	3.6
2024 Q1	(18.7)	n.a.	(2.6)	(72.3)	1.7	58.2	(2.6)	21.5	(16.6)
Q2	(5.2)	n.a.	(9.8)	(100.0)	(39.2)	(26.6)	(17.0)	6.9	(6.5)
Q3	(14.8)	n.a.	15.9	n.a.	73.2	27.7	25.3	25.6	(9.9)
Q4	5.8	n.a.	(16.9)	n.a.	(3.5)	(19.1)	(8.5)	(2.0)	3.5
2025 Q1	7.5	n.a.	(5.7)	n.a.	(57.4)	(49.5)	3.6	(8.2)	4.3
Q2	(41.3)	n.a.	15.6	n.a.	92.8	181.7	10.4	(13.3)	(32.7)
Q3	123.9	n.a.	(15.8)	n.a.	(9.0)	(19.4)	(31.0)	11.9	89.2

Note: 1. () Denote negative numbers

2. n.a. Signifies data not available/no production during the specified period

TABLE 6: Year-on-Year Percentage Change in the Volume of Mining Production by Mineral Group and Mineral 2015Q1 - 2025Q3

	Diamonds	Copper Nickel- Cobalt Matte	Copper in Concentrates	Gold	Soda Ash	Salt	Silver	Coal	Total
Weights	82.5	8.6	5.5	1.4	0.9	0.5	0.4	0.3	100.0
2015	(15.6)	4.1	(73.8)	(21.4)	(9.4)	(21.5)	(87.4)	20.7	(18.2)
2016	0.3	(2.3)	(100.0)	10.5	15.2	(1.1)	(100.0)	(9.4)	(1.6)
2017	9.8	(100.0)	n.a.	10.7	(19.2)	(7.6)	n.a.	18.4	2.0
2018	6.8	n.a.	18.0	20.0	31.1	6.1	n.a.	12.0	7.3
2019	(3.3)	n.a.	(100.0)	(14.7)	(11.1)	(2.2)	n.a.	(15.0)	(3.9)
2020	(28.8)	n.a.	n.a.	(9.7)	(9.7)	9.0	n.a.	(8.9)	(28.1)
2021	34.6	n.a.	...	(23.7)	9.8	15.8	...	5.1	37.0
2022	7.9	n.a.	277.0	(34.3)	8.9	(33.3)	200.3	21.8	14.9
2023	2.5	n.a.	23.8	(22.4)	(8.1)	20.0	37.8	(16.1)	4.3
2024	(27.0)	n.a.	(11.0)	(94.0)	13.9	(4.6)	(17.4)	18.9	(24.9)
2015 Q1	(2.3)	87.3	(23.3)	(46.3)	(32.6)	(10.3)	(32.3)	33.7	(0.7)
Q2	(5.4)	43.3	(73.5)	(33.0)	(16.2)	(39.4)	(100.0)	9.0	(7.4)
Q3	(33.4)	(61.5)	(89.2)	(7.8)	7.1	(8.3)	(100.0)	18.6	(37.9)
Q4	(20.4)	(31.0)	(100.0)	12.9	1.4	(26.2)	(100.0)	25.3	(25.5)
2016 Q1	(5.3)	35.8	(100.0)	16.0	60.6	9.3	(100.0)	(9.8)	(5.7)
Q2	(11.9)	(11.2)	(100.0)	62.7	(13.3)	(7.5)	n.a.	(30.5)	(12.9)
Q3	9.4	204.0	(100.0)	(17.4)	10.9	(18.4)	n.a.	(5.1)	12.3
Q4	14.3	(100.0)	n.a.	0.4	15.0	18.6	n.a.	7.0	5.8
2017 Q1	(2.7)	(100.0)	n.a.	(22.1)	(39.0)	(31.7)	n.a.	14.7	(14.4)
Q2	12.6	(100.0)	n.a.	(14.3)	(25.2)	(28.3)	n.a.	63.9	2.1
Q3	32.9	(100.0)	n.a.	52.9	(9.5)	35.3	n.a.	6.3	23.4
Q4	0.2	n.a.	...	28.7	(9.3)	(17.3)	n.a.	4.3	0.5
2018 Q1	11.5	n.a.	...	68.7	57.4	43.5	n.a.	21.7	12.6
Q2	6.4	n.a.	(20.6)	50.2	43.1	11.6	n.a.	15.5	7.0
Q3	(4.8)	n.a.	83.8	(10.6)	33.8	(31.8)	n.a.	14.4	(4.2)
Q4	15.4	n.a.	(26.2)	5.1	9.4	37.9	n.a.	(2.4)	15.1
2019 Q1	3.3	n.a.	(100.0)	(16.9)	14.6	29.6	n.a.	(7.1)	3.1
Q2	(8.4)	n.a.	(100.0)	(14.0)	0.1	47.0	n.a.	(6.3)	(8.7)
Q3	(0.4)	n.a.	(100.0)	(1.0)	(20.5)	(17.2)	n.a.	(28.6)	(1.5)
Q4	(7.1)	n.a.	(100.0)	(26.1)	(26.8)	(30.6)	n.a.	(17.3)	(7.9)
2020 Q1	(5.7)	n.a.	n.a.	7.2	(12.8)	2.5	n.a.	4.9	(5.5)
Q2	(67.0)	n.a.	n.a.	(34.5)	32.7	15.9	n.a.	(40.7)	(65.1)
Q3	(15.3)	n.a.	n.a.	(8.3)	(53.1)	5.5	n.a.	14.1	(15.5)
Q4	(28.2)	n.a.	n.a.	4.1	12.2	13.4	n.a.	(6.1)	(27.1)
2021 Q1	(12.1)	n.a.	n.a.	(17.9)	11.1	(39.4)	n.a.	(11.2)	(12.1)
Q2	202.7	n.a.	n.a.	5.2	(14.7)	1.3	n.a.	31.6	185.6
Q3	32.2	n.a.	n.a.	(26.9)	81.7	86.1	n.a.	1.0	40.6
Q4	24.2	n.a.	...	(49.1)	(4.4)	27.9	...	9.3	28.1

TABLE 6 CONT'D: Year-on-Year Percentage Change in the Volume of Mining Production by Mineral Group and Mineral 2015Q1 - 2025Q3

	Diamonds	Copper Nickel- Cobalt Matte	Copper in Concentrates	Gold	Soda Ash	Salt	Silver	Coal	Total
Weights	82.5	8.6	5.5	1.4	0.9	0.5	0.4	0.3	100.0
2022 Q1	25.0	n.a	...	(30.0)	5.0	(13.8)	...	6.0	32.1
Q2	(4.3)	n.a	...	(19.2)	6.4	(46.8)	...	23.4	5.9
Q3	3.5	n.a	67.4	(52.9)	26.1	(20.0)	25.9	20.6	6.9
Q4	10.3	n.a	224.4	(36.8)	(1.4)	(48.8)	174.3	38.7	18.7
2023 Q1	10.9	n.a	102.0	(42.8)	(21.5)	54.2	143.0	17.7	16.2
Q2	6.2	n.a	32.7	(29.9)	(26.2)	32.6	42.4	(21.5)	8.2
Q3	(11.6)	n.a	4.0	0.6	(5.5)	14.8	19.0	(21.2)	(9.8)
Q4	6.2	n.a	(6.9)	1.3	20.7	(7.4)	(4.3)	(34.4)	4.6
2024 Q1	(27.4)	n.a	(16.4)	(71.3)	37.4	17.1	(26.3)	(19.5)	(25.7)
Q2	(18.7)	n.a	(20.4)	(100.0)	8.5	10.3	(28.3)	17.9	(19.0)
Q3	(31.0)	n.a	(0.6)	(100.0)	10.0	(35.1)	(4.7)	33.7	(27.2)
Q4	(30.5)	n.a	(5.1)	(100.0)	3.4	20.0	(7.3)	59.9	(27.3)
2025 Q1	(8.1)	n.a	(8.2)	(100.0)	(56.7)	(61.6)	(1.4)	20.8	(9.0)
Q2	(43.1)	n.a	17.7	n.a	37.3	47.1	31.2	(2.0)	(34.6)
Q3	49.5	n.a	(14.5)	n.a	(27.8)	(7.1)	(27.7)	(12,6	37.5

Note: 1. () Denote negative numbers

2. ... Data is not zero, but the figure is not significant enough to be measured

3. "n.a." Signifies data not available/no production during the specified period

TABLE 7: Contribution of Each Mineral Group and Mineral to the Year- on-Year Percentage Change in the Volume of Mining Production 2015Q1 - 2025Q3

	Diamonds	Copper-Nickel-Cobalt Matte	Copper in Concentrates	Gold	Soda Ash	Salt	Silver	Coal	Total
Weights	82.5	8.6	5.5	1.4	0.9	0.5	0.4	0.3	100.0
2015	(13.2)	0.2	(4.5)	(0.2)	(0.1)	(0.1)	(0.4)	0.1	(18.2)
2016	0.3	(0.2)	(1.9)	0.1	0.2	0.0	(0.1)	(0.0)	(1.6)
2017	8.8	(7.0)	0.3	0.1	(0.3)	0.0	0.0	0.1	2.0
2018	6.5	0.0	0.1	0.3	0.3	0.0	0.0	0.1	7.3
2019	(3.2)	0.0	(0.3)	(0.2)	(0.1)	(0.0)	0.0	(0.1)	(3.9)
2020	(27.8)	0.0	0.0	(0.1)	(0.1)	0.0	0.0	(0.0)	(28.1)
2021	33.1	0.0	3.6	(0.4)	0.1	0.1	0.3	0.0	37.0
2022	7.4	0.0	7.4	(0.3)	0.1	(0.2)	0.5	0.1	14.9
2023	2.2	0.0	2.1	(0.1)	(0.1)	0.1	0.2	(0.1)	4.3
2024	(23.4)	0.0	(1.1)	(0.3)	0.1	(0.0)	(0.1)	0.1	(24.9)
2015 Q1	(2.0)	3.6	(1.3)	(0.6)	(0.3)	(0.0)	(0.1)	0.1	(0.7)
Q2	(4.6)	2.6	(4.3)	(0.3)	(0.2)	(0.2)	(0.4)	0.0	(7.4)
Q3	(28.5)	(2.6)	(6.3)	(0.1)	0.1	(0.0)	(0.6)	0.1	(37.9)
Q4	(17.0)	(2.5)	(5.7)	0.1	0.0	(0.1)	(0.4)	0.1	(25.5)
2016 Q1	(4.6)	2.8	(4.3)	0.1	0.4	0.0	(0.2)	(0.0)	(5.7)
Q2	(10.4)	(1.0)	(1.7)	0.4	(0.1)	(0.0)	0.0	(0.1)	(12.9)
Q3	8.6	5.3	(1.2)	(0.3)	0.2	(0.2)	0.0	(0.0)	12.3
Q4	12.8	(7.3)	0.0	0.0	0.2	0.1	0.0	0.0	5.8
2017 Q1	(2.4)	(11.3)	0.0	(0.2)	(0.5)	(0.1)	0.0	0.0	(14.4)
Q2	11.1	(9.3)	0.6	(0.2)	(0.2)	(0.1)	0.0	0.2	2.1
Q3	29.3	(7.0)	0.4	0.6	(0.2)	0.2	0.0	0.0	23.4
Q4	0.2	0.0	0.2	0.3	(0.2)	(0.1)	0.0	0.0	0.5
2018 Q1	11.2	0.0	0.1	0.6	0.5	0.1	0.0	0.1	12.6
Q2	6.2	0.0	(0.1)	0.6	0.3	0.0	0.0	0.1	7.0
Q3	(4.6)	0.0	0.2	(0.2)	0.4	(0.2)	0.0	0.1	(4.2)
Q4	14.8	0.0	(0.1)	0.1	0.1	0.2	0.0	(0.0)	15.1
2019 Q1	3.2	0.0	(0.1)	(0.2)	0.2	0.1	0.0	(0.0)	3.1
Q2	(8.1)	0.0	(0.5)	(0.2)	0.0	0.1	0.0	(0.0)	(8.7)
Q3	(0.3)	0.0	(0.6)	(0.0)	(0.4)	(0.1)	0.0	(0.1)	(1.5)
Q4	(6.8)	0.0	(0.1)	(0.4)	(0.4)	(0.2)	0.0	(0.1)	(7.9)
2020 Q1	(5.5)	0.0	0.0	0.1	(0.2)	0.0	0.0	0.0	(5.5)
Q2	(64.8)	0.0	0.0	(0.5)	0.3	0.1	0.0	(0.2)	(65.1)
Q3	(14.8)	0.0	0.0	(0.1)	(0.7)	0.0	0.0	0.1	(15.5)
Q4	(27.3)	0.0	0.0	0.0	0.1	0.1	0.0	(0.0)	(27.1)
2021 Q1	(11.7)	0.0	0.0	(0.2)	0.1	(0.2)	0.0	(0.1)	(12.0)
Q2	185.7	0.0	0.0	0.1	(0.5)	0.0	0.0	0.3	185.6
Q3	31.2	0.0	8.1	(0.4)	0.6	0.4	0.7	0.0	40.6
Q4	23.1	0.0	5.1	(0.8)	(0.1)	0.2	0.4	0.0	28.1

TABLE 7 CONT'D: Contribution of Each Mineral Group and Mineral to the Year- on-Year Percentage Change in the Volume of Mining Production 2015Q1 - 2025Q3

	Diamonds	Copper-Nickel- Cobalt Matte	Copper in Concentrates	Gold	Soda Ash	Salt	Silver	Coal	Total
Weights	82.5	8.6	5.5	1.4	0.9	0.5	0.4	0.3	100.0
2022 Q1	24.1	0.0	7.7	(0.3)	0.1	(0.0)	0.6	0.0	32.1
Q2	(4.2)	0.0	9.7	(0.2)	0.1	(0.2)	0.7	0.1	5.9
Q3	3.2	0.0	3.9	(0.4)	0.3	(0.1)	0.1	0.1	6.9
Q4	9.5	0.0	9.0	(0.2)	(0.0)	(0.3)	0.6	0.1	18.7
2023 Q1	10.0	0.0	5.9	(0.2)	(0.3)	0.1	0.6	0.1	16.2
Q2	5.4	0.0	3.0	(0.2)	(0.3)	0.1	0.3	(0.1)	8.2
Q3	(10.2)	0.0	0.4	0.0	(0.1)	0.1	0.1	(0.1)	(9.8)
Q4	5.3	0.0	(0.8)	0.0	0.2	(0.0)	(0.0)	(0.2)	4.6
2024 Q1	(23.9)	0.0	(1.7)	(0.2)	0.3	0.1	(0.2)	(0.1)	(25.7)
Q2	(16.1)	0.0	(2.3)	(0.5)	0.1	0.0	(0.2)	0.1	(19.0)
Q3	(26.8)	0.0	(0.1)	(0.4)	0.1	(0.2)	(0.0)	0.1	(27.2)
Q4	(26.7)	0.0	(0.5)	(0.3)	0.0	0.1	(0.1)	0.2	(27.3)
2025 Q1	(6.9)	0.0	(0.9)	(0.1)	(0.8)	(0.3)	(0.0)	0.1	(9.0)
Q2	(37.3)	0.0	1.9	0.0	0.4	0.2	0.2	(0.0)	(34.6)
Q3	40.5	0.0	(2.0)	0.0	(0.5)	(0.0)	(0.3)	(0.1)	37.5

Note: 1. () Denote negative numbers.

3.0 Technical Notes

3.1 Background

Mining activity in Botswana started in the 19th century with the production of Gold by Europeans from the Tati Reefs, which is now the modern Francistown area. However, much of this activity could not be accounted for, despite its significant contribution to the economy at that time. With the discovery and successful exploitation of a sizable diamond kimberlite deposit at Orapa in 1971 and the production of copper and nickel at Selebi Phikwe in 1973, the economy transformed into a mineral dependent one. The Orapa mine was, by global standards, an exceptional deposit. In 1982, a second and much larger and richer diamond mine was opened at Jwaneng. Since the early 1980s, the mining industry has been the largest contributor to real Gross Domestic Product (GDP), contributing between 20 and 50 percent.

The mining sector, particularly the diamond industry, has played a pivotal role in shaping Botswana's economic landscape and development over the years. The high-quality diamonds have been a resource instrumental in fuelling economic growth, foreign exchange earnings, and job creation. Revenues generated from the sale of diamonds are reinvested into critical areas such as Education, Healthcare, and infrastructure development.

With such a significant contribution to the economic growth, the need for a measure of the change in the production of minerals in Botswana cannot be over emphasised. The index of the physical volume of mining production is such a measure that provides a relative change over time in mining production. The IMP can also be used as a deflator to calculate the GDP at constant prices.

3.2 Data collection

Data from mining establishments in the country are included in the mining production statistics published by the Department of Mines under the Ministry of Minerals and Energy. Statistics Botswana receives the data from the Department of Mines once data collection is complete. The mineral production data is used to compute the volume of mining production indices. After cleaning the data, producing statistical tables and reports in accordance with international standards and guidelines, Statistics Botswana packages and disseminates the information to consumers through the website.

3.3 Scope of the survey

The survey covers all mining establishments conducting activities relating to the extraction of minerals such as Diamonds, Copper-Nickel-Cobalt Matte, Copper in Concentrates, Gold, Soda Ash, Salt, Silver, Coal, Semi-precious stones and the quarrying of building materials. The activities are classified according to the International Standard of Industrial Classification of all Economic Activities, ISIC Rev 4, and the Central Product Classification (CPC) Version 2.

4.0 Concepts, definitions and methods

4.1 Index of the volume of mining productions

The index of the volume of mining production, which can also be referred to as the production index is a statistical measure of the change in the volume of production. The production index of a mineral group is the ratio between the volume of production of a mineral group in a given period and the volume of production of the same mineral group in the base period. The index form is used not only for intertemporal comparisons, but also for comparisons between countries.

It is worth noting that IMP is an important macro-economic indicator which monitors progress and fluctuation of the mineral sector production in the economy. The Index is also known to be an effective tool that measures current production, which indicates relative changes over time in the physical volume of mining production.

4.2 Base Period

The base period, which is typically one year, serves as the benchmark for comparing other periods and provides the weights for an index based on its values. The base period used in this brief is 2013 and it is set at 100.

4.3 Index weighting

The weight of the mineral group is the ratio of the estimated value of production of a mineral group to the total estimated value of production of the mining industry. The weight of a mineral group reflects the importance of the mineral group in the total mining industry. The relative importance of various mineral groups is different and these differentials need to be reflected while measuring the performance of the entire mining sector.

4.4 Seasonal Adjustment

Seasonal adjustment is a means of removing the estimated effects of normal seasonal fluctuations and typical calendar effects from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which may be present in any particular period.

The data produced are not seasonally adjusted. However, there is a further scope of producing and disseminating an additional seasonally adjusted series only when there is a clear statistical evidence and economic interpretation of the seasonal/calendar effects.

4.5 Year-on-year percentage change

Year-on-Year percentage change in a variable for any given period is the rate of change expressed over the same period in the previous year.

4.6 Quarter-on-Quarter percentage change

Quarter-on-Quarter percentage change in a variable for any given period is the rate of change expressed over the previous quarter.

4.7 Index Contribution (percentage points)

The contribution (percentage points) of a mineral group or mineral to the percentage change in the total mining production for a given period is calculated by multiplying the difference in the index for each mineral group or mineral by the weight of the mineral group or mineral and then dividing by the previous period's total index. It indicates the extent to which each mineral group affects the overall growth of mining production.

4.8 Rounding-off of figures

The figures in the tables have, where necessary, been rounded off to the nearest number shown. There may be slight discrepancies between the sums of the constituent items and the totals shown.

4.9 Calculation of the Index of Mining Production

To calculate the evolution of physical volume of mining production on a quarterly basis, a Laspeyres indicator, base year 2013=100, was used. The index is calculated as the weighted arithmetic mean of the

production relatives in respect of selected items. The weighted average is done to measure the importance of various mineral groups in the mining sector when calculating the comprehensive growth rate of the sector.

$$I = \frac{\sum R_i * W_i}{\sum W_i}$$

Where; **I** is the index, **R_i** is the production relative of item **i** and **W_i** is the weight allocated to item **i**

The production relative **R_i** of the **i**th item for the quarter has been calculated by using the formula:

$$R_i = \frac{P_{ic}}{P_{io}} * 100$$

Where **P_{ic}** is the production of the **i**th item in the current quarter and **P_{io}** is the production of the **i**th item in the base year.



Private Bag 0024
Gaborone
Tel: 3671300
Toll Free: 0800 600 200

Private Bag F193,
Francistown
Tel: 241 5848

E-mail:
info@statsbots.org.bw
Website
www.statsbots.org.bw

Four Thirty Square,
Plot 54350
PG Matante Road, CBD
Gaborone



STATISTICS BOTSWANA