

# **Index of Mineral Production**

## **1<sup>st</sup> Quarter 2025**



# *INDEX OF MINERAL PRODUCTION*

*1<sup>st</sup> QUARTER 2025*

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## Executive Summary

This publication presents the Index of Mineral Production (IMP) covering the period 1<sup>st</sup> quarter 2019 to 1<sup>st</sup> quarter 2025. 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 1<sup>st</sup> quarter 2025, the Index of Mineral Production stood at **142.4**, reflecting a year-on-year percentage decrease of **3.7** compared to the index value of **147.8** recorded in 1<sup>st</sup> quarter 2024. The quarter-on-quarter comparison shows a **42.0** percent decrease in the index from **245.8** recorded in 4<sup>th</sup> quarter 2024.

## 1.1 Introduction

This statistical release presents quarterly Indices of Mining Production (IMP) for the period 2019 to the 1<sup>st</sup> quarter of 2025. The

base year is 2019 and the production is set at 100.

## 1.2 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.

## 1.3 Summary of Findings

The index of mineral production for 1<sup>st</sup> quarter 2025 stood at **142.4**, reflecting a

year-on-year percentage decrease of **3.7** compared to the 2024 1<sup>st</sup> quarter value of

147.8. The quarter-on-quarter comparison shows a 42.0 percent decrease in the index

from 245.8 recorded in 4<sup>th</sup> quarter 2024. (Figure 1.0)

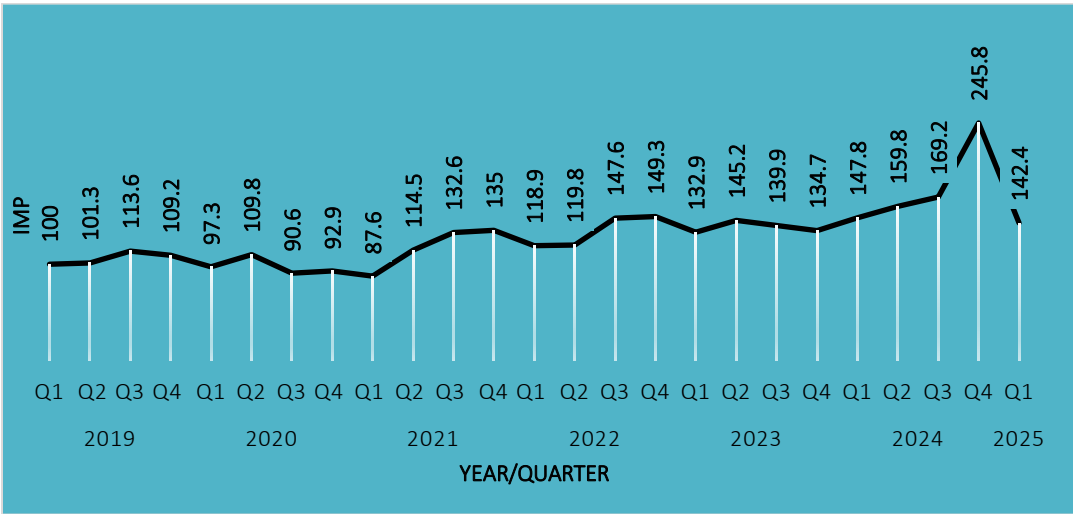


Figure 1.0: Index of Mineral Production, 1<sup>st</sup> Quarter 2019 to 1<sup>st</sup> Quarter 2025

## 1.4 Mineral Production

### Gold

The output index for gold in 1<sup>st</sup> quarter 2025 was 128.9, compared to 95.3 recorded in 1<sup>st</sup> quarter 2024. This reflects a year-on-year comparison increase in the index of 35.3

percent. The quarter-on-quarter comparison shows a percentage decrease in production of 29.3. (Figure 1.1)

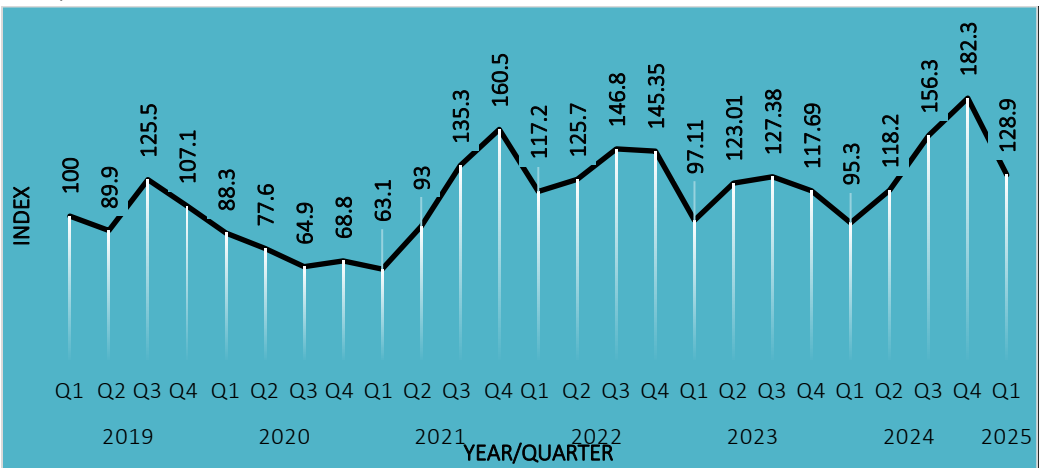


Figure 1.1: Gold production index, 1<sup>st</sup> Quarter 2019 to 1<sup>st</sup> Quarter 2025

| Quarter | Output (kgs) |
|---------|--------------|
| Q1 '25  | 8,979        |
| Q4 '24  | 12,697       |
| Q3 '24  | 10,889       |
| Q2'24   | 8,230        |
| Q1 '24  | 6,638        |

## Platinum

Platinum output index for 1<sup>st</sup> quarter 2025 was **122.3** reflecting a year-on-year decrease in the index of **16.2** percent, from the 1<sup>st</sup> quarter 2024 value of **145.9**. The quarter-on-

quarter analysis shows a **7.5** percent decrease in the index from **132.2** in 4<sup>th</sup> quarter 2024. (Figure 1.2)

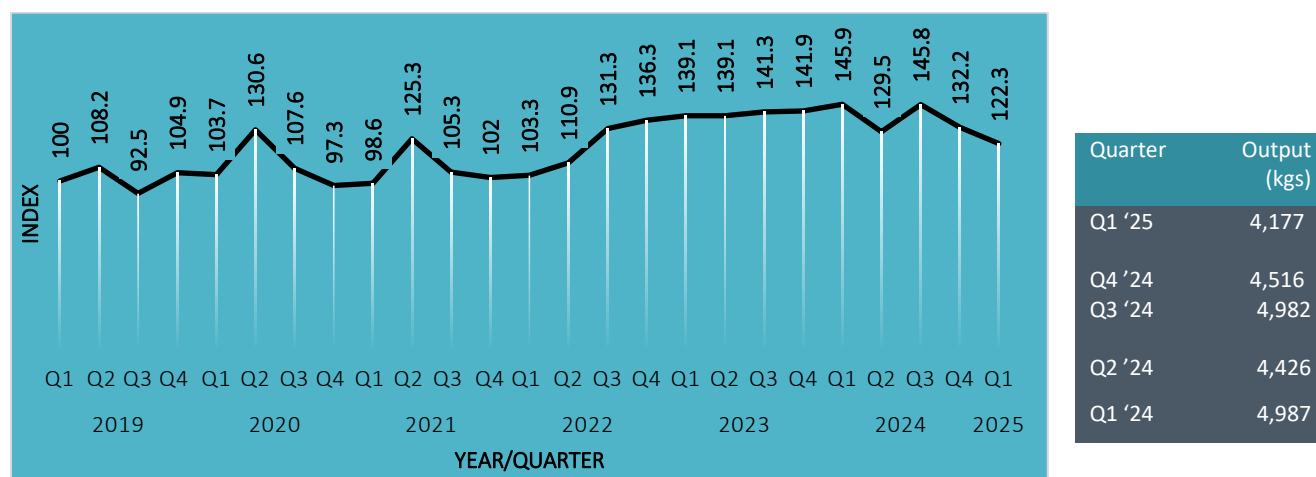


Figure 1.2: Platinum production index, 1<sup>st</sup> Quarter 2019 to 1<sup>st</sup> Quarter 2025

## Diamond

Diamond recorded an output index of **169.6** in the 1<sup>st</sup> quarter of 2025 compared to **307.2** in 1<sup>st</sup> quarter 2024. The year-on-year comparison shows a decrease in the index of

**44.8** percent. Quarter-on-quarter analysis shows a percentage decrease of **44.9** percent, from **308.4** in 4<sup>th</sup> quarter 2024.

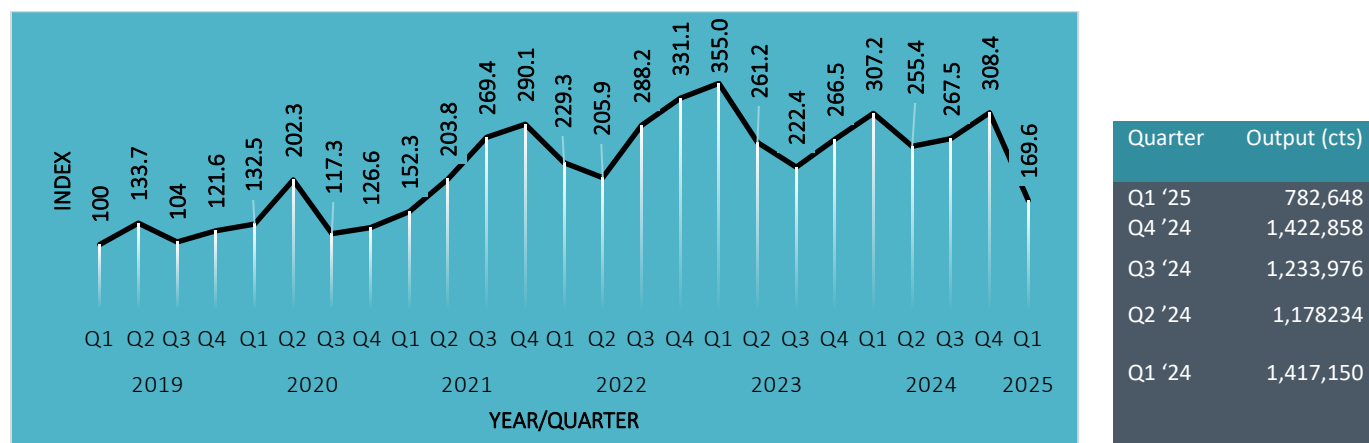
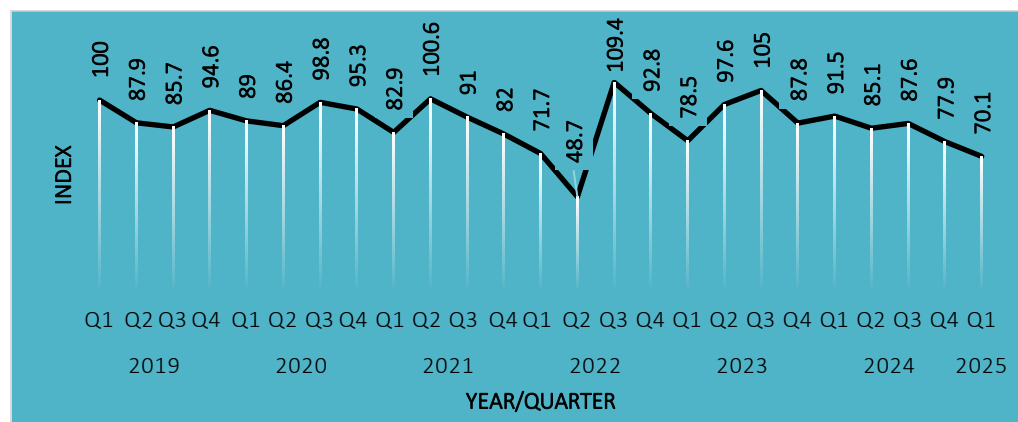


Figure 1.3: Diamond production index, 1<sup>st</sup> Quarter 2019 to 1<sup>st</sup> Quarter 2025

## Nickel

Nickel output index for 1<sup>st</sup> quarter 2024 was **70.1**, with the year-on-year comparison reflecting a decrease of **23.4** percent from **91.5** recorded in 1<sup>st</sup> quarter 2024. The

quarter-on-quarter comparison showed a percentage decrease of **10.2**, attributed to a decrease in production from **3,448mt** in 4<sup>th</sup> quarter 2024 to **3,097mt** in 1<sup>st</sup> quarter 2025.



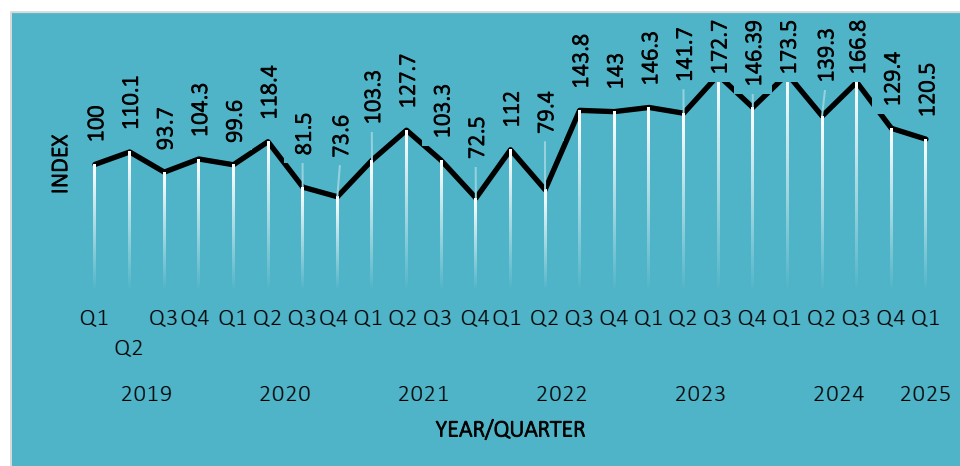
| Quarter | Output (MT) |
|---------|-------------|
| Q1 '25  | 3,097       |
| Q4 '24  | 3,448       |
| Q3 '24  | 3,873       |
| Q2 '24  | 3,761       |
| Q1 '24  | 4,046       |

Figure 1.4: Nickel production index, 1<sup>st</sup> Quarter 2019 to 1<sup>st</sup> Quarter 2025

## Copper

The 1<sup>st</sup> quarter 2025 output index for copper was **120.5**. The year-on-year index analysis shows a decrease of **30.6** percent, as production went down from **3,689mt** in 1<sup>st</sup>

quarter 2024 to **2,562mt** in 1<sup>st</sup> quarter 2025. The quarter-on-quarter comparison reflects a **6.9** percent decrease in the output index from **129.4** recorded in 4<sup>th</sup> quarter 2024.



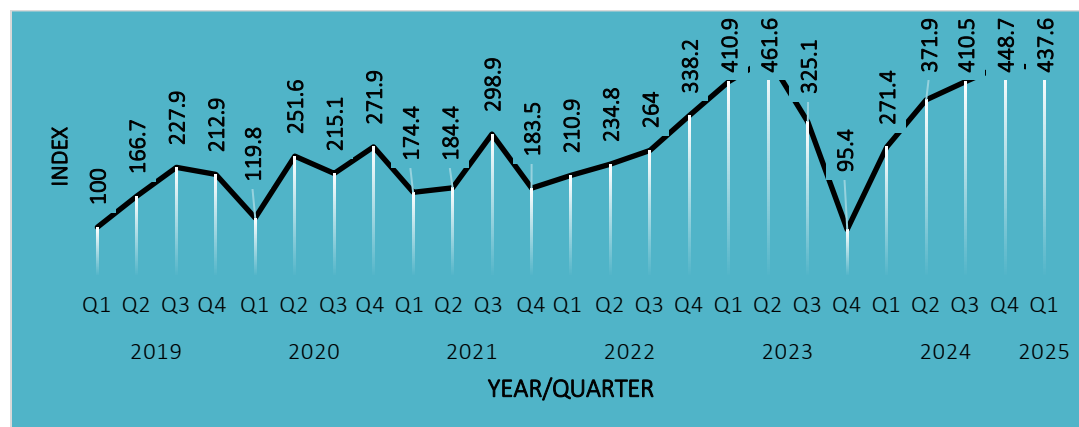
| Quarter | Output (MT) |
|---------|-------------|
| Q1 '25  | 2,562       |
| Q4 '24  | 2,752       |
| Q3 '24  | 3,547       |
| Q2 '24  | 2,961       |
| Q1 '24  | 3,689       |

Figure 1.5: Copper production index, 1<sup>st</sup> Quarter 2019 to 1<sup>st</sup> Quarter 2025

## Coal

Coal recorded an output index of **437.6** in 1<sup>st</sup> quarter 2025, an increase of **61.2** percent from **271.4** recorded in 1<sup>st</sup> quarter 2024. The

quarter-on-quarter analysis indicates a percentage decrease of **2.5**, from **448.7** recorded in 4<sup>th</sup> quarter 2024.



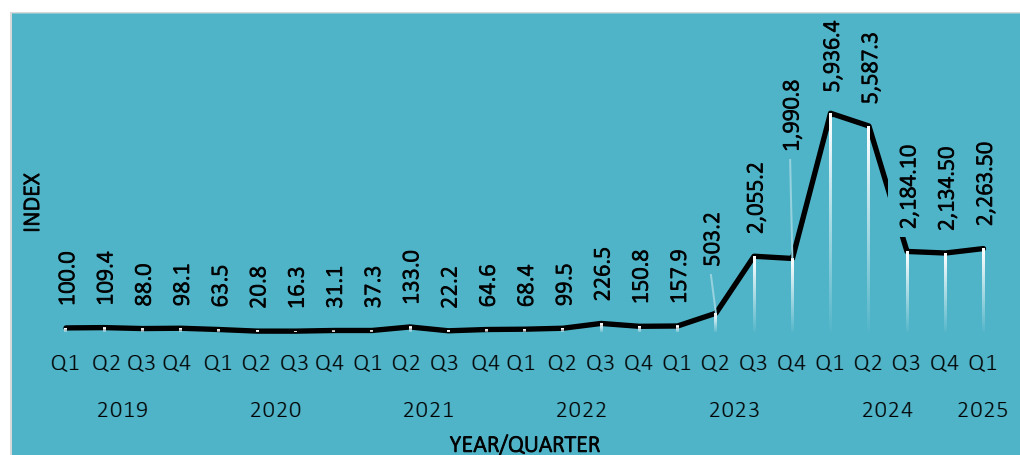
| Quarter | Output (MT) |
|---------|-------------|
| Q1 '25  | 1,688,429   |
| Q4 '24  | 1,731,331   |
| Q3 '24  | 1,584,035   |
| Q2 '24  | 1,434,880   |
| Q1 '24  | 1,047,279   |

Figure 1.6: Coal production index, 1<sup>st</sup> Quarter 2019 to 1<sup>st</sup> Quarter 2025

## Lithium

Lithium production index for 1<sup>st</sup> quarter 2025 was **2,263.5** depicting a year-on-year decrease of **61.9** percent from **5,936.4** in 1<sup>st</sup> quarter 2024. Production increased to

**358,468mt** in 1<sup>st</sup> quarter 2025 from **338,038mt** in 4<sup>th</sup> quarter 2024, resulting in a quarter-on-quarter increase in the output index of **6.0** percent.



| Quarter | Output (MT) |
|---------|-------------|
| Q1 '25  | 358,468     |
| Q4 '24  | 338,038     |
| Q3 '24  | 345,892     |
| Q2 '24  | 884,860     |
| Q1 '24  | 940,138     |

Figure 1.7: Lithium production index, 1<sup>st</sup> Quarter 2019 to 1<sup>st</sup> Quarter 2025

Granite

The 1<sup>st</sup> quarter 2025 production index for granite stood at **63.1**, recording a year-on-year percentage decrease of **94.7** when

compared to the 1<sup>st</sup> quarter 2024 index value of **1,181.3**.

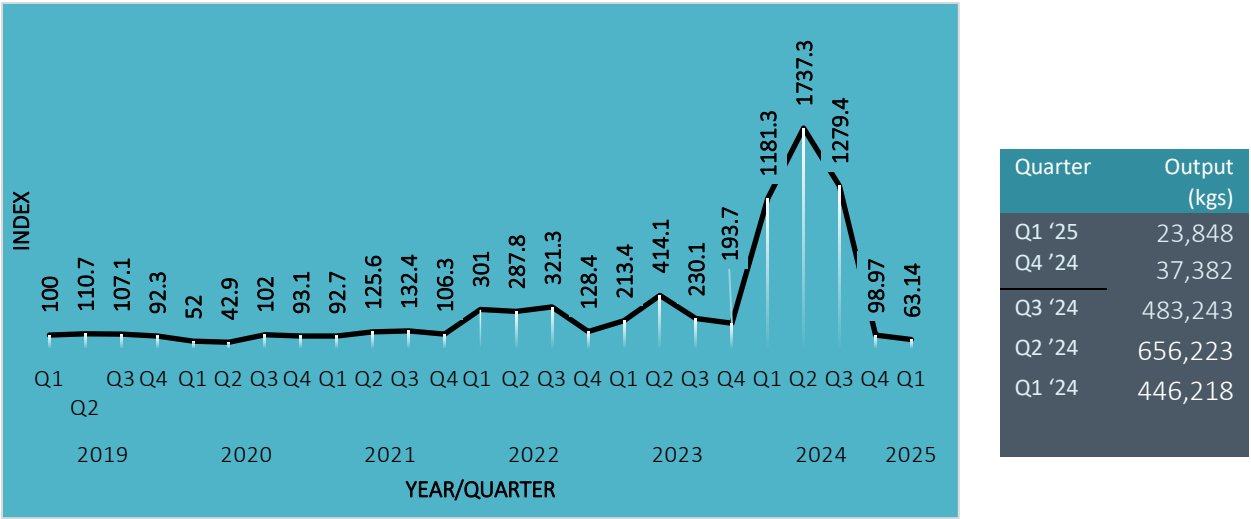


Figure 1.8: Granite Production index, 1<sup>st</sup> Quarter 2019 to 1<sup>st</sup> Quarter 2025

## 1.5 Appendices--

### Appendix A: Physical Volume of Mineral Production, 1<sup>st</sup> Quarter 2019 to 1<sup>st</sup> Quarter 2025

| Mineral |                | Gold (kgs) | Platinum (kgs) | Palladium (kgs) | Rhodium (kgs) | Iridium (kgs) | Ruthenium (kgs) | Diamond (cts) | Chrome (MT) | Nickel (MT) | Copper (MT) | Cobalt (MT) | Coal (MT) | Lithium (MT) | Phosphate (T) | Granite (MT) | Feldspar (MT) | Vermiculite (MT) |
|---------|----------------|------------|----------------|-----------------|---------------|---------------|-----------------|---------------|-------------|-------------|-------------|-------------|-----------|--------------|---------------|--------------|---------------|------------------|
|         | weights        | 44.37      | 11.34          | 16.08           | 3.64          | 0.48          | 0.31            | 5.00          | 6.84        | 5.44        | 1.35        | 0.23        | 4.11      | 0.26         | 0.23          | 0.19         | 0.03          | 0.10             |
| 2019    | Q <sub>1</sub> | 6,965      | 3,417          | 2,825           | 306           | 210           | 189             | 461,348       | 419,486     | 4,421       | 2,126       | 95          | 385,843   | 15,837       | 11,136        | 37,772       | 859           | 6,127            |
|         | Q <sub>2</sub> | 6,261      | 3,695          | 3,085           | 327           | 228           | 211             | 617,044       | 366,978     | 3,884       | 2,342       | 102         | 643,285   | 17,326       | 10,337        | 41,810       | 565           | 5,525            |
|         | Q <sub>3</sub> | 8,744      | 3,159          | 2,735           | 279           | 188           | 189             | 479,922       | 394,253     | 3,791       | 1,993       | 108         | 879,154   | 13,929       | 3,839         | 40,440       | 640           | 7,515            |
|         | Q <sub>4</sub> | 7,458      | 3,585          | 2,994           | 312           | 219           | 202             | 560,875       | 369,347     | 4,183       | 2,217       | 97          | 821,640   | 15,531       | 1,836         | 34,862       | 384           | 6,357            |
| 2020    | Q <sub>1</sub> | 6,152      | 3,544          | 2,957           | 317           | 216           | 205             | 611,333       | 353,668     | 3,936       | 2,119       | 322         | 462,140   | 10,063       | 13,989        | 19,639       | -             | 7,536            |
|         | Q <sub>2</sub> | 5,408      | 4,461          | 3,780           | 399           | 299           | 224             | 933,507       | 350,784     | 3,818       | 2,518       | 72          | 970,967   | 3,293        | 15,131        | 16,208       | -             | 7,401            |
|         | Q <sub>3</sub> | 4,519      | 3,675          | 3,138           | 345           | 189           | 311             | 541,390       | 256,192     | 4,369       | 1,732       | 386         | 830,105   | 2,583        | 6,341         | 38,518       | -             | 3,781            |
|         | Q <sub>4</sub> | 4,794      | 3,325          | 3,015           | 307           | 133           | 286             | 584,228       | 311,494     | 4,213       | 1,564       | 177         | 487,672   | 4,920        | 9,623         | 35,159       | -             | 7,670            |
| 2021    | Q <sub>1</sub> | 4,397      | 3,369          | 2,925           | 305           | 162           | 286             | 702,639       | 364,025     | 3,666       | 2,196       | 79          | 672,862   | 5,911        | 8,392         | 35,032       | -             | 3,986            |
|         | Q <sub>2</sub> | 6,480      | 4,279          | 3,715           | 392           | 170           | 364             | 940,082       | 372,036     | 4,449       | 2,716       | 93          | 711,633   | 21,070       | 11,336        | 47,453       | -             | 6,463            |
|         | Q <sub>3</sub> | 9,423      | 3,598          | 3,107           | 327           | 143           | 305             | 1,243,080     | 321,596     | 4,022       | 2,196       | 88          | 1,153,391 | 3,521        | 12,087        | 49,997       | -             | 10,251           |
|         | Q <sub>4</sub> | 11,178     | 3,486          | 2,873           | 309           | 137           | 295             | 1,338,500     | 186,699     | 3,623       | 1,541       | 85          | 708,125   | 10,224       | 6,298         | 40,147       | -             | 7,013            |
| 2022    | Q <sub>1</sub> | 8,166      | 3,530          | 3,100           | 329           | 127           | 284             | 1,057,710     | 386,576     | 3,167       | 2,382       | 41          | 813,608   | 10,825       | 6,882         | 113,818      | -             | 3,255            |
|         | Q <sub>2</sub> | 8,752      | 3,789          | 3,175           | 330           | 128           | 290             | 949,921       | 239,333     | 2,153       | 1,688       | 37          | 905,887   | 15,755       | 6,184         | 108,708      | -             | 6,481            |
|         | Q <sub>3</sub> | 10,223     | 4,485          | 3,781           | 397           | 169           | 377             | 1,329,807     | 344,131     | 4,837       | 3,057       | 53          | 1,018,507 | 35,866       | 6,956         | 121,352      | -             | 8,397            |
|         | Q <sub>4</sub> | 10,124     | 4,657          | 3,879           | 405           | 178           | 390             | 1,527,573     | 184,118     | 4,103       | 3,041       | 81          | 1,304,972 | 23,884       | 0             | 48,495       | 0             | 8,247            |

|      |                |        |       |       |     |     |     |           |         |       |       |       |           |         |       |         |   |        |
|------|----------------|--------|-------|-------|-----|-----|-----|-----------|---------|-------|-------|-------|-----------|---------|-------|---------|---|--------|
| 2023 | Q <sub>1</sub> | 6,764  | 4,753 | 3,957 | 415 | 184 | 399 | 1,637,554 | 206,354 | 3,471 | 3,111 | 104   | 1,585,335 | 25,000  | 0     | 80,587  | 0 | 4,819  |
|      | Q <sub>2</sub> | 8,568  | 4,751 | 3,973 | 416 | 274 | 241 | 1,204,805 | 274,978 | 4,313 | 3,013 | 87    | 1,781,034 | 79,689  | 5,594 | 156,403 | 0 | 8,283  |
|      | Q <sub>3</sub> | 8,602  | 4,828 | 3,990 | 419 | 182 | 397 | 1,035,905 | 248,176 | 4,643 | 3,671 | 87    | 1,254,418 | 325,479 | 0.00  | 86,911  | 0 | 7,473  |
|      | Q <sub>4</sub> | 8,198  | 4,848 | 3,936 | 422 | 318 | 294 | 1,229,677 | 475,247 | 3,882 | 3,113 | 98    | 368,228   | 315,287 | 0     | 73,190  | 0 | 7,701  |
| 2024 | Q <sub>1</sub> | 6,638  | 4,987 | 4,136 | 437 | 219 | 368 | 1,417,150 | 165,469 | 4,046 | 3,689 | 85    | 1,047,279 | 940,138 | 0     | 446,218 | 0 | 4,222  |
|      | Q <sub>2</sub> | 8,230  | 4,426 | 3,706 | 392 | 157 | 351 | 1,178,234 | 807,230 | 3,761 | 2,961 | 76    | 1,434,880 | 884,860 | 0     | 656,223 | 0 | 4,848  |
|      | Q <sub>3</sub> | 10,889 | 4,982 | 4,120 | 451 | 205 | 433 | 1,233,976 | 461,552 | 3,873 | 3,547 | 92    | 1,584,035 | 345,892 | 0     | 483,243 | 0 | 8,090  |
|      | Q <sub>4</sub> | 12,697 | 4,516 | 3,641 | 424 | 225 | 460 | 1,422,858 | 566,669 | 3,448 | 2,752 | 91.14 | 1,731,331 | 338,038 | 0     | 37,382  | 0 | 36,837 |
| 2025 | Q <sub>1</sub> | 8,979  | 4,177 | 3,414 | 394 | 308 | 405 | 782,648   | 465,639 | 3,097 | 2,562 | 77.74 | 1,688,429 | 358,468 | 0     | 23,848  | 0 | 3,028  |

## Appendix B: Index of Volume of Mineral Production, 1<sup>st</sup> Quarter 2019 to 4<sup>th</sup> Quarter 2024

| <i>Mineral</i> |                | Gold        | Platinum    | Palladium   | Rhodium    | Iridium    | Ruthenium  | Diamond    | Chrome     | Nickel     | Copper     | Cobalt     | Coal       | Lithium    | Phosphate  | Granite    | Feldspar   | Vermiculite | Quarterly index |
|----------------|----------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-----------------|
|                | <b>Weights</b> | <b>44.4</b> | <b>11.3</b> | <b>16.1</b> | <b>3.6</b> | <b>0.5</b> | <b>0.3</b> | <b>5.0</b> | <b>6.8</b> | <b>5.4</b> | <b>1.3</b> | <b>0.2</b> | <b>4.1</b> | <b>0.3</b> | <b>0.2</b> | <b>0.2</b> | <b>0.0</b> | <b>0.1</b>  | <b>100.0</b>    |
| 2019           | Q <sub>1</sub> | 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           |
|                | Q <sub>2</sub> | 89.9        | 108.2       | 109.2       | 106.7      | 108.6      | 111.8      | 133.7      | 87.5       | 87.9       | 110.1      | 107.6      | 166.7      | 109.4      | 92.8       | 110.7      | 65.8       | 90.2        | 101.3           |
|                | Q <sub>3</sub> | 125.5       | 92.5        | 96.8        | 91.0       | 89.5       | 100.2      | 104.0      | 94.0       | 85.7       | 93.7       | 114.0      | 227.9      | 88.0       | 34.5       | 107.1      | 74.5       | 122.6       | 113.6           |
|                | Q <sub>4</sub> | 107.1       | 104.9       | 106.0       | 101.9      | 104.2      | 106.8      | 121.6      | 88.0       | 94.6       | 104.3      | 101.9      | 212.9      | 98.1       | 16.5       | 92.3       | 44.7       | 103.8       | 109.2           |
| 2020           | Q <sub>1</sub> | 88.3        | 103.7       | 104.7       | 103.4      | 102.8      | 108.4      | 132.5      | 84.3       | 89.0       | 99.6       | 339.2      | 119.8      | 63.5       | 125.6      | 52.0       | 0.0        | 123.0       | 97.3            |
|                | Q <sub>2</sub> | 77.6        | 130.6       | 133.8       | 130.3      | 142.2      | 118.5      | 202.3      | 83.6       | 86.4       | 118.4      | 75.7       | 251.6      | 20.8       | 135.9      | 42.9       | 0.0        | 120.8       | 109.8           |
|                | Q <sub>3</sub> | 64.9        | 107.6       | 111.1       | 112.6      | 90.2       | 164.6      | 117.3      | 61.1       | 98.8       | 81.5       | 406.3      | 215.1      | 16.3       | 56.9       | 102.0      | 0.0        | 61.7        | 90.6            |
|                | Q <sub>4</sub> | 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       | 86.4       | 93.1       | 0.0        | 125.2       | 92.9            |
| 2021           | Q <sub>1</sub> | 63.1        | 98.6        | 103.5       | 99.6       | 77.1       | 151.1      | 152.3      | 86.8       | 82.9       | 103.3      | 83.6       | 174.4      | 37.3       | 75.4       | 92.7       | 0.0        | 65.1        | 87.6            |
|                | Q <sub>2</sub> | 93.0        | 125.3       | 131.5       | 127.9      | 80.9       | 192.5      | 203.8      | 88.7       | 100.6      | 127.7      | 98.3       | 184.4      | 133.0      | 101.8      | 125.6      | 0.0        | 105.5       | 114.5           |
|                | Q <sub>3</sub> | 135.3       | 105.3       | 110.0       | 106.8      | 55.1       | 161.2      | 269.4      | 76.7       | 91.0       | 103.3      | 93.2       | 298.9      | 22.2       | 108.5      | 132.4      | 0.0        | 167.3       | 132.6           |
|                | Q <sub>4</sub> | 160.5       | 102.0       | 101.7       | 100.9      | 65.3       | 155.8      | 290.1      | 44.5       | 82.0       | 72.5       | 89.3       | 183.5      | 64.6       | 56.6       | 106.3      | 0.0        | 114.5       | 135.0           |
| 2022           | Q <sub>1</sub> | 117.2       | 103.3       | 109.7       | 107.3      | 60.5       | 150.3      | 229.3      | 92.2       | 71.7       | 112.0      | 42.8       | 210.9      | 68.4       | 61.8       | 301.0      | 0.0        | 53.1        | 118.9           |
|                | Q <sub>2</sub> | 125.7       | 110.9       | 112.4       | 107.8      | 60.9       | 153.5      | 205.9      | 57.1       | 48.7       | 79.4       | 39.1       | 234.8      | 99.5       | 55.5       | 287.8      | 0.0        | 105.8       | 119.8           |
|                | Q <sub>3</sub> | 146.8       | 131.3       | 133.8       | 129.5      | 80.3       | 199.6      | 288.2      | 82.0       | 109.4      | 143.8      | 55.7       | 264.0      | 226.5      | 62.5       | 321.3      | 0.0        | 137.1       | 147.6           |
|                | Q <sub>4</sub> | 145.4       | 136.3       | 137.3       | 132.3      | 84.6       | 206.1      | 331.1      | 43.9       | 92.8       | 143.0      | 85.1       | 338.2      | 150.8      | 0.00       | 128.4      | 0.00       | 134.6       | 149.3           |
| 2023           | Q <sub>1</sub> | 97.1        | 139.1       | 140.1       | 135.4      | 87.6       | 211.0      | 355.0      | 49.2       | 78.5       | 146.3      | 109.4      | 410.9      | 157.9      | 0.00       | 213.4      | 0.00       | 78.6        | 132.8           |
|                | Q <sub>2</sub> | 123.1       | 139.1       | 140.7       | 135.7      | 130.6      | 127.4      | 261.2      | 65.6       | 97.6       | 141.7      | 92.0       | 461.6      | 503.2      | 50.2       | 414.1      | 0.00       | 135.2       | 145.2           |
|                | Q <sub>3</sub> | 127.4       | 141.3       | 141.3       | 137.0      | 86.9       | 209.8      | 224.5      | 59.2       | 105.0      | 172.7      | 91.38      | 325.1      | 2,055.2    | 0.0        | 230.1      | 0.00       | 122.0       | 144.1           |
|                | Q <sub>4</sub> | 117.7       | 141.9       | 139.3       | 137.6      | 151.5      | 155.3      | 266.5      | 113.3      | 87.8       | 146.4      | 103.54     | 95.4       | 1,990.8    | 0.0        | 193.8      | 0.0        | 125.69      | 134.7           |
| 2024           | Q <sub>1</sub> | 95.3        | 146.0       | 146.4       | 142.6      | 104.3      | 194.6      | 307.8      | 104.5      | 91.5       | 173.5      | 89.58      | 271.43     | 5,936.4    | 0.0        | 1181.3     | 0.0        | 68.91       | 147.8           |
|                | Q <sub>2</sub> | 118.2       | 129.5       | 131.2       | 127.9      | 74.9       | 185.7      | 255.4      | 192.4      | 85.1       | 139.3      | 79.7       | 371.9      | 5,587.3    | 0.0        | 1,737.3    | 0.0        | 79.1        | 159.8           |
|                | Q <sub>3</sub> | 156.3       | 145.8       | 145.9       | 147.2      | 97.6       | 228.9      | 267.5      | 110.0      | 87.6       | 166.8      | 97.4       | 410.5      | 2,184.1    | 0.00       | 1,279.4    | 0.00       | 132.0       | 169.2           |
|                | Q <sub>4</sub> | 182.28      | 132.17      | 128.88      | 138.49     | 107.3      | 243.4      | 308.4      | 1116.78    | 77.9       | 129.4      | 96.1       | 448.71     | 2,134.49   | 0.00       | 98.97      | 0.00       | 601.2       | 245.8           |
| 2025           | Q <sub>1</sub> | 128.91      | 122.25      | 120.85      | 128.66     | 146.70     | 214.25     | 169.64     | 111.0      | 70.07      | 120.49     | 81.92      | 437.60     | 2,263.49   | 0.00       | 63.14      | 0.00       | 49.42       | 142.4           |

## Appendix C: Year-on-Year Percentage Change in Volume of Mineral Production Index, 1<sup>st</sup> Quarter 2019 to 4<sup>th</sup> Quarter 2024

|      | Mineral        | Gold   | Platinum | Palladium | Rhodium | Iridium | Ruthenium | Diamond | Chrome | Nickel | Copper | Cobalt | Coal  | Lithium | Phosphate | Granite | Feldspar | Vermiculite | Yearly %change |
|------|----------------|--------|----------|-----------|---------|---------|-----------|---------|--------|--------|--------|--------|-------|---------|-----------|---------|----------|-------------|----------------|
|      | Weights        | 44.4   | 11.3     | 16.1      | 3.6     | 0.5     | 0.3       | 5.0     | 6.8    | 5.4    | 1.3    | 0.2    | 4.1   | 0.3     | 0.2       | 0.2     | 0.0      | 0.1         | 100.0          |
| 2019 | Q <sub>1</sub> | 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            |
|      | Q <sub>2</sub> | 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            |
|      | Q <sub>3</sub> | 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            |
|      | Q <sub>4</sub> | 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 | Q <sub>1</sub> | -11.7  | 3.7      | 4.7       | 3.4     | 2.8     | 8.4       | 32.5    | -15.7  | -11.0  | -0.4   | 239.2  | 19.8  | -36.5   | 25.6      | -48.0   | -100.0   | 23.0        | -2.7           |
|      | Q <sub>2</sub> | -13.6  | 20.7     | 22.5      | 22.1    | 30.9    | 6.1       | 51.3    | -4.4   | -1.7   | 7.5    | -29.7  | 50.9  | -81.0   | 46.4      | -61.2   | -100.0   | 34.0        | 8.4            |
|      | Q <sub>3</sub> | -48.3  | 16.3     | 14.7      | 23.7    | 0.7     | 64.4      | 12.8    | -35.0  | 15.3   | -13.1  | 256.5  | -5.6  | -81.5   | 65.2      | -4.8    | -100.0   | -49.7       | -20.3          |
|      | Q <sub>4</sub> | -35.7  | -7.3     | 0.7       | -1.7    | -39.3   | 41.6      | 4.2     | -15.7  | 0.7    | -29.4  | 82.8   | 27.7  | -68.3   | 424.1     | 0.9     | -100.0   | 20.6        | -14.9          |
| 2021 | Q <sub>1</sub> | -28.5  | -4.9     | -1.1      | -3.6    | -24.9   | 39.4      | 14.9    | 2.9    | -6.9   | 3.7    | -75.4  | 45.6  | -41.3   | -40.0     | 78.4    | -        | -47.1       | -10.0          |
|      | Q <sub>2</sub> | 19.8   | -4.1     | -1.7      | -1.8    | -43.1   | 62.4      | 0.7     | 6.1    | 16.5   | 7.9    | 29.9   | -26.7 | 539.8   | -25.1     | 192.8   | -        | -12.7       | 4.3            |
|      | Q <sub>3</sub> | 108.5  | -2.1     | -1.0      | -5.1    | -38.9   | -2.1      | 129.6   | 25.5   | -7.9   | 26.8   | -77.1  | 38.9  | 36.3    | 90.6      | 29.8    | -        | 171.1       | 46.3           |
|      | Q <sub>4</sub> | 133.1  | 4.9      | -4.7      | 0.8     | 3.2     | 3.1       | 129.1   | -40.1  | -14.0  | -1.5   | -52.0  | -32.5 | 107.8   | -34.6     | 14.2    | -        | -8.6        | 45.2           |
| 2022 | Q <sub>1</sub> | 85.7   | 4.8      | 6.0       | 7.7     | -21.6   | -0.5      | 50.5    | 6.2    | -13.6  | 8.4    | -48.8  | 20.9  | 83.1    | -18.0     | 224.5   | -        | -18.3       | 35.7           |
|      | Q <sub>2</sub> | 35.1   | -11.5    | -14.5     | -15.7   | -24.7   | -20.3     | 1.0     | -35.7  | -51.6  | -37.8  | -60.2  | 27.3  | -25.2   | -45.4     | 129.1   | -        | 0.3         | 4.7            |
|      | Q <sub>3</sub> | 8.5    | 24.7     | 21.7      | 21.2    | 45.7    | 23.8      | 7.0     | 7.0    | 20.3   | 39.2   | -40.3  | -11.7 | 918.6   | -42.5     | 142.7   | -        | -18.1       | 11.3           |
|      | Q <sub>4</sub> | -9.43  | 33.58    | 35.01     | 31.07   | 29.57   | 32.27     | 14.13   | -1.38  | 13.24  | 97.35  | -4.73  | 84.3  | 133.61  | -100.00   | 20.80   | 0.0      | 17.59       | 10.63          |
| 2023 | Q <sub>1</sub> | -17.2  | 34.62    | 27.65     | 26.17   | 44.91   | 40.38     | 54.8    | -46.62 | 9.58   | 30.61  | 155.95 | 94.9  | 131.0   | -100.00   | -29.1   | 0.0      | 48.03       | 16.77          |
|      | Q <sub>2</sub> | -2.11  | 25.39    | 25.13     | 25.81   | 114.53  | -17.01    | 26.8    | 14.89  | 100.35 | 78.46  | 135.26 | 96.6  | 405.8   | -9.54     | 43.9    | 0.0      | 27.80       | 20.45          |
|      | Q <sub>3</sub> | -15.9  | 7.66     | 5.56      | 5.75    | 8.16    | 5.12      | -22.1   | -27.9  | -4.01  | 20.11  | 64.16  | 23.2  | 807.5   | -100      | -28.4   | 0.0      | -11.0       | -5.2           |
|      | Q <sub>4</sub> | -19.03 | 4.1      | 1.48      | 4.02    | 79.13   | -24.65    | -19.5   | 158.12 | -5.39  | 2.34   | 21.67  | -71.8 | 1220.1  |           | 50.9    |          | -6.61       | -13.41         |
| 2024 | Q <sub>1</sub> | -1.86  | 4.93     | 4.51      | 5.38    | 19.02   | -7.77     | -13.5   | -19.81 | 16.57  | 18.59  | -18.14 | -33.9 | 3660.6  | 0         | 453.7   | 0        | -12.38      | 5664.32        |
|      | Q <sub>2</sub> | -3.94  | -6.84    | -6.72     | -5.71   | -42.7   | 45.8      | -2.21   | 193.6  | -12.8  | -1.7   | -13.4  | -19.4 | 1010.3  | 0         | 319.57  | 0        | -41.47      | 3.71           |
|      | Q <sub>3</sub> | 22.7   | 3.2      | 3.2       | 7.4     | 12.4    | 9.1       | 20.3    | 86.0   | -16.6  | -14.8  | -4.3   | 26.3  |         | 0         | 437.50  | 0        | 8.2         | 20.1           |
|      | Q <sub>4</sub> | 54.8   | -6.8     | -7.5      | 0.6     | -29.2   | 56.8      | 15.7    | 885.8  | -11.2  | -11.6  | -7.2   | 370.2 | 7.2     |           | -48.9   |          | 378.3       | 82.55          |
| 2025 | Q <sub>1</sub> | 35.3   | -16.2    | -17.5     | -9.7    | 40.82   | 10.2      | -44.8   | 6.2    | -23.4  | -30.6  | -8.6   | 246.9 | -61.87  |           | -94.7   |          | -28.3       | -3.67          |

Appendix D: Quarter-On-Quarter Percentage Change in Volume of Mineral Production Index, 1<sup>st</sup> Quarter 2019 to 4<sup>th</sup> Quarter 2024

| Mineral |                | Gold  | Platinum | Palladium | Rhodium | Iridium | Ruthenium | Diamond | Chrome | Nickel | Copper | Cobalt | Coal  | Lithium | Phosphate | Granite | Feldspar | Vermiculite | Quarterly<br>% change |
|---------|----------------|-------|----------|-----------|---------|---------|-----------|---------|--------|--------|--------|--------|-------|---------|-----------|---------|----------|-------------|-----------------------|
|         | Weights        | 44.4  | 11.3     | 16.1      | 3.6     | 0.5     | 0.3       | 5.0     | 6.8    | 5.4    | 1.3    | 0.2    | 4.1   | 0.3     | 0.2       | 0.2     | 0.0      | 0.1         | 100.0                 |
| 2019    | Q <sub>1</sub> | 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                   |
|         | Q <sub>2</sub> | -10.1 | 8.2      | 9.2       | 6.7     | 8.6     | 11.8      | 33.7    | -12.5  | -12.1  | 10.1   | 7.6    | 66.7  | 9.4     | -7.2      | 10.7    | -34.2    | -9.8        | 1.3                   |
|         | Q <sub>3</sub> | 39.7  | -14.5    | -11.3     | -14.7   | -17.6   | -10.4     | -22.2   | 7.4    | -2.4   | -14.9  | 6.0    | 36.7  | -19.6   | -62.9     | -3.3    | 13.3     | 36.0        | 12.2                  |
|         | Q <sub>4</sub> | -14.7 | 13.5     | 9.5       | 12.0    | 16.5    | 6.6       | 16.9    | -6.3   | 10.3   | 11.3   | -10.6  | -6.5  | 11.5    | -52.2     | -13.8   | -40.0    | -15.4       | -3.9                  |
| 2020    | Q <sub>1</sub> | -17.5 | -1.2     | -1.2      | 1.4     | -1.4    | 1.6       | 9.0     | -4.2   | -5.9   | -4.4   | 232.9  | -43.8 | -35.2   | 661.9     | -43.7   | -100.0   | 18.5        | -10.9                 |
|         | Q <sub>2</sub> | -12.1 | 25.9     | 27.8      | 26.0    | 38.4    | 9.3       | 52.7    | -0.8   | -3.0   | 18.8   | -77.7  | 110.1 | -67.3   | 8.2       | -17.5   | 0.0      | -1.8        | 12.8                  |
|         | Q <sub>3</sub> | -16.4 | -17.6    | -17.0     | -13.6   | -36.6   | 38.9      | -42.0   | -27.0  | 14.4   | -31.2  | 437.0  | -14.5 | -21.6   | -58.1     | 137.6   | 0.0      | -48.9       | -17.5                 |
|         | Q <sub>4</sub> | 6.1   | -9.5     | -3.9      | -11.0   | -29.8   | -8.2      | 7.9     | 21.6   | -3.6   | -9.7   | -54.2  | 26.4  | 90.5    | 51.8      | -8.7    | 0.0      | 102.8       | 2.6                   |
| 2021    | Q <sub>1</sub> | -8.3  | 1.3      | -3.0      | -0.5    | 21.9    | 0.0       | 20.3    | 16.9   | -13.0  | 40.4   | -55.1  | -35.9 | 20.1    | -12.8     | -0.4    | 0.0      | -48.0       | -5.7                  |
|         | Q <sub>2</sub> | 47.4  | 27.0     | 27.0      | 28.3    | 4.9     | 27.4      | 33.8    | 2.2    | 21.3   | 23.7   | 17.6   | 5.8   | 256.5   | 35.1      | 35.5    | 0.0      | 62.1        | 30.6                  |
|         | Q <sub>3</sub> | 45.4  | -15.9    | -16.4     | -16.4   | -31.9   | -16.2     | 32.2    | -13.6  | -9.6   | -19.1  | -5.2   | 62.1  | -83.3   | 6.6       | 5.4     | 0.0      | 58.6        | 15.8                  |
|         | Q <sub>4</sub> | 18.6  | -3.1     | -7.5      | -5.5    | 18.4    | -3.4      | 7.7     | -41.9  | -9.9   | -29.8  | -4.2   | -38.6 | 190.4   | -47.9     | -19.7   | 0.0      | -31.6       | 1.8                   |
| 2022    | Q <sub>1</sub> | -26.9 | 1.3      | 7.9       | 6.3     | -7.4    | -3.5      | -21.0   | 107.1  | -12.6  | 54.5   | -52.1  | 14.9  | 5.9     | 9.3       | 183.2   | 0.0      | -53.6       | -11.9                 |
|         | Q <sub>2</sub> | 7.2   | 7.3      | 2.4       | 0.5     | 0.7     | 2.1       | -10.2   | -38.1  | -32.0  | -29.1  | -8.6   | 11.3  | 45.5    | -10.1     | -4.4    | 0.0      | 99.1        | 0.7                   |
|         | Q <sub>3</sub> | 16.8  | 18.4     | 19.1      | 20.1    | 31.9    | 30.1      | 40.0    | 43.8   | 124.7  | 81.0   | 42.4   | 12.4  | 127.6   | 12.5      | 11.6    | 0.0      | 29.6        | 23.2                  |
|         | Q <sub>4</sub> | -1.0  | 3.8      | 2.6       | 2.1     | 5.3     | 3.23      | 14.9    | -46.5  | -15.2  | -0.5   | 52.9   | 28.1  | -33.4   | -100.0    | -60.0   | 0.0      | -1.8        | 1.1                   |
| 2023    | Q <sub>1</sub> | -33.2 | 2.1      | 2.0       | 2.3     | 3.6     | 2.4       | 7.2     | 12.1   | -15.4  | 2.3    | 28.6   | 21.5  | 4.7     | 0.0       | 66.2    | 0.0      | -41.55      | -11.0                 |
|         | Q <sub>2</sub> | 26.7  | -0.04    | 0.4       | 0.2     | 49.1    | -39.7     | -26.4   | 33.3   | 24.3   | -3.1   | -16.0  | 12.3  | 218.8   | 0.0       | 94.1    | 0.0      | 71.9        | 9.4                   |
|         | Q <sub>3</sub> | 0.4   | 1.6      | 0.4       | 1.0     | -33.5   | 64.8      | -14.0   | -9.8   | 7.7    | 21.9   | -0.7   | -29.6 | 308.4   | -100      | -44.4   | 0.0      | -9.8        | -3.0                  |
|         | Q <sub>4</sub> | -4.6  | 0.4      | -1.4      | 0.5     | 74.5    | -26.0     | 18.8    | 91.5   | -16.4  | -25.2  | 1.8    | -70.7 | -3.1    | 0         | -15.8   | 0        | 3.04        | -4.4                  |
| 2024    | Q <sub>1</sub> | -19.0 | 2.9      | 5.1       | 3.7     | -31.2   | 25.4      | 15.3    | -65.2  | 4.2    | 18.5   | -13.5  | 184.4 | 198.2   | 0         | 509.7   | 0        | -45.2       | -9.8                  |
|         | Q <sub>2</sub> | 24.0  | -11.3    | -10.4     | -10.4   | -28.1   | -4.5      | -16.86  | 84.1   | -7.0   | -19.6  | -11.3  | 37.0  | -5.9    | 0         | 47.1    | 0        | 14.8        | 8.1                   |
|         | Q <sub>3</sub> | 32.3  | 12.6     | 11.2      | 15.3    | 30.7    | 23.3      | 4.7     | -42.8  | 2.9    | 19.8   | 22.2   | 10.4  | -60.9   | 0         | -26.4   | 0        | 66.9        | 5.9                   |
|         | Q <sub>4</sub> | 16.6  | -9.4     | -11.6     | -5.9    | 9.9     | 6.3       | 15.3    | 22.7   | -10.9  | -22.43 | -1.4   | 9.3   | -.3     | 0         | -92.3   | 0        | 355.4       | 45.3                  |
| 2025    | Q <sub>1</sub> | -29.3 | -7.5     | -6.2      | -7.1    | 36.7    | -11.98    | -44.99  | -17.8  | -10.6  | -6.90  | -14.7  | 109.8 | 6.04    | 0         | -36.20  | 0        | -91.78      | -42.1                 |