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## **STATISTICAL RELEASE**

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# Mining: Production and sales (Preliminary)

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## Production: results for September 2022

**Table A – Key growth rates in the volume of mining production**

	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Year-on-year % change, unadjusted	-15,0	-7,2	-7,0	-8,4	-6,4	-4,5
Month-on-month % change, seasonally adjusted	-4,4	1,3	-0,5	2,5	-0,6	0,1
3-month % change, seasonally adjusted <sup>1</sup>	-3,0	-1,2	-3,4	-0,2	0,2	2,2

<sup>1</sup> Percentage change between the previous three months and the three months ending in the month indicated.

Mining production decreased by 4,5% year-on-year in September 2022. The largest negative contributors were iron ore (-23,1% and contributing -2,7 percentage points) and gold (-12,4% and contributing -2,1 percentage points) – see Tables 6 and 7.

Seasonally adjusted mining production increased by 0,1% in September 2022 compared with August 2022. This followed month-on-month changes of -0,6% in August 2022 and 2,5% in July 2022.

**Table B – Seasonally adjusted index of the volume of mining production for the latest three months by mineral group and mineral (Base: 2019=100)**

Mineral group and mineral	Weight	Apr – Jun 2022	Jul – Sep 2022	% change between Apr – Jun 2022 and Jul – Sep 2022	Contribution (% points) to the % change in total mining production
Gold	15,91	76,7	84,1	9,6	1,3
Iron ore	11,92	94,3	87,8	-6,9	-0,8
Chromium ore	3,62	107,6	106,5	-1,0	0,0
Copper <sup>1</sup>	0,76	95,6	93,8	-1,9	0,0
Manganese ore	6,18	106,9	117,8	10,2	0,7
PGMs	22,96	97,8	94,2	-3,7	-0,9
Nickel <sup>1</sup>	1,15	73,8	70,3	-4,7	0,0
Other metallic minerals <sup>1</sup>	2,35	102,7	108,0	5,2	0,1
Diamonds <sup>1</sup>	3,20	126,2	152,0	20,4	0,9
Coal	27,85	86,3	89,1	3,2	0,8
Building materials	3,32	88,6	91,6	3,4	0,1
Other non-metallic minerals	0,78	94,1	99,2	5,4	0,0
<b>Total</b>	<b>100,00</b>	<b>92,1</b>	<b>94,1</b>	<b>2,2</b>	<b>2,2</b>

<sup>1</sup> Unadjusted. See notes 4, 5 and 6 on page 11.

Seasonally adjusted mining production increased by 2,2% in the third quarter of 2022 compared with the second quarter of 2022. The largest positive contributors were:

- gold (9,6% and contributing 1,3 percentage points);
- diamonds (20,4% and contributing 0,9 of a percentage point);
- coal (3,2% and contributing 0,8 of a percentage point); and
- manganese ore (10,2% and contributing 0,7 of a percentage point) – see Table B.

Figure 1 – Volume of mining production (Base: 2019=100)

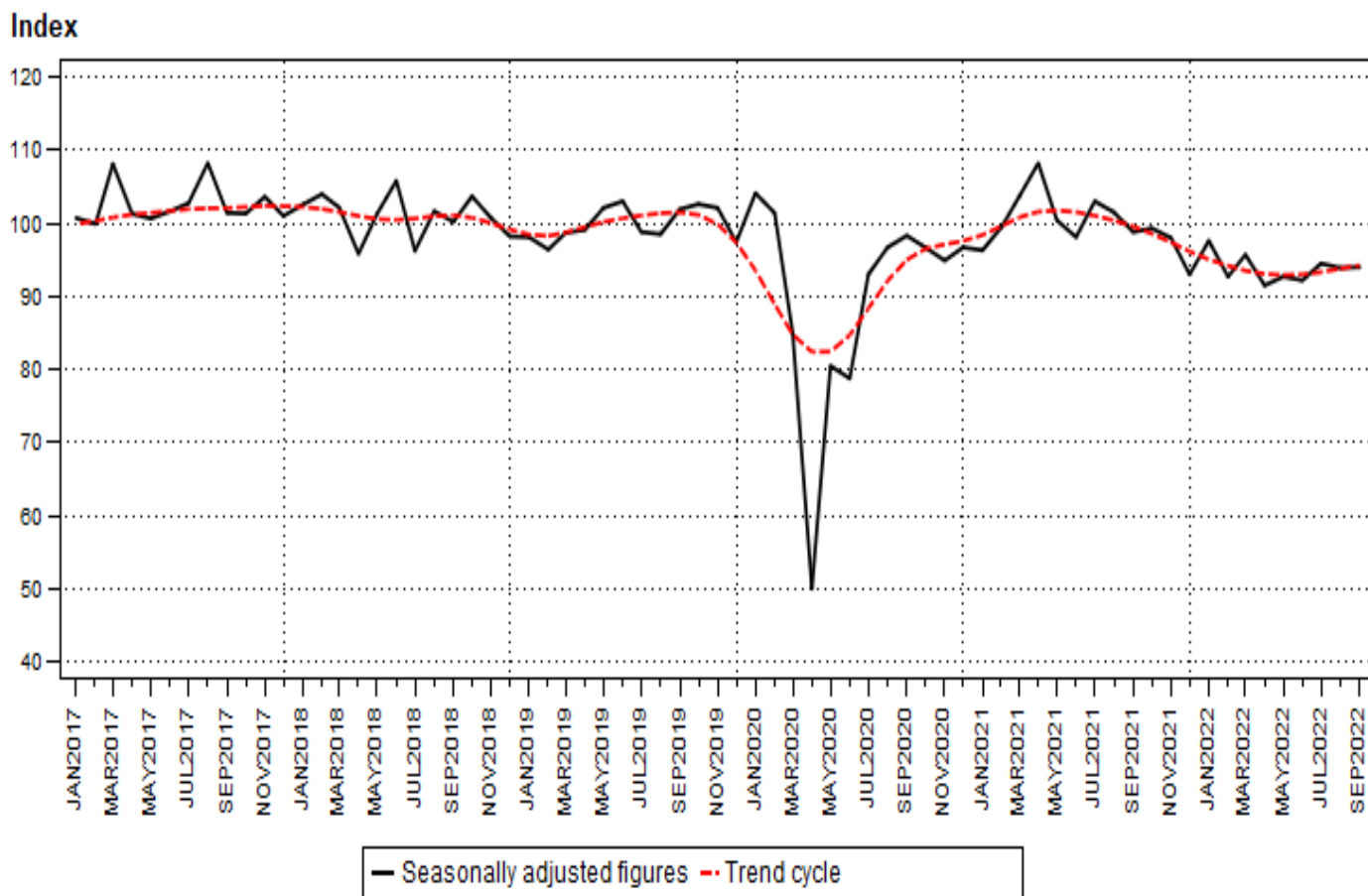
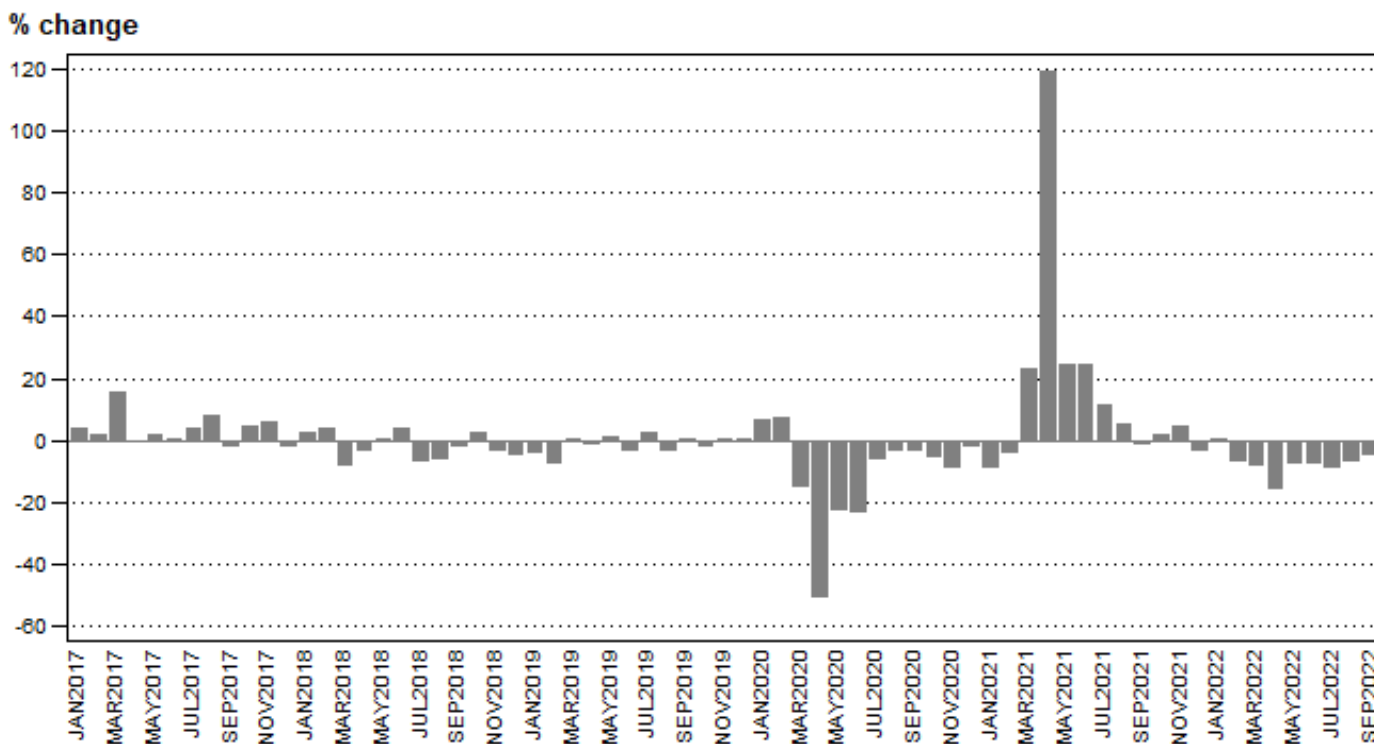


Figure 2 – Volume of mining production (Base: 2019=100): year-on-year percentage change



**Sales: results for September 2022**

**Table C – Key growth rates in mineral sales at current prices**

	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Year-on-year % change, unadjusted	2,1	18,1	-6,3	3,5	4,2	20,7
Month-on-month % change, seasonally adjusted	-0,2	12,4	-15,9	6,5	-1,3	-2,1
3-month % change, seasonally adjusted <sup>1</sup>	11,6	18,4	11,2	4,9	-5,8	-3,2

<sup>1</sup> Percentage change between the previous three months and the three months ending in the month indicated.

Mineral sales at current prices increased by 20,7% year-on-year in September 2022. The largest positive contributors were:

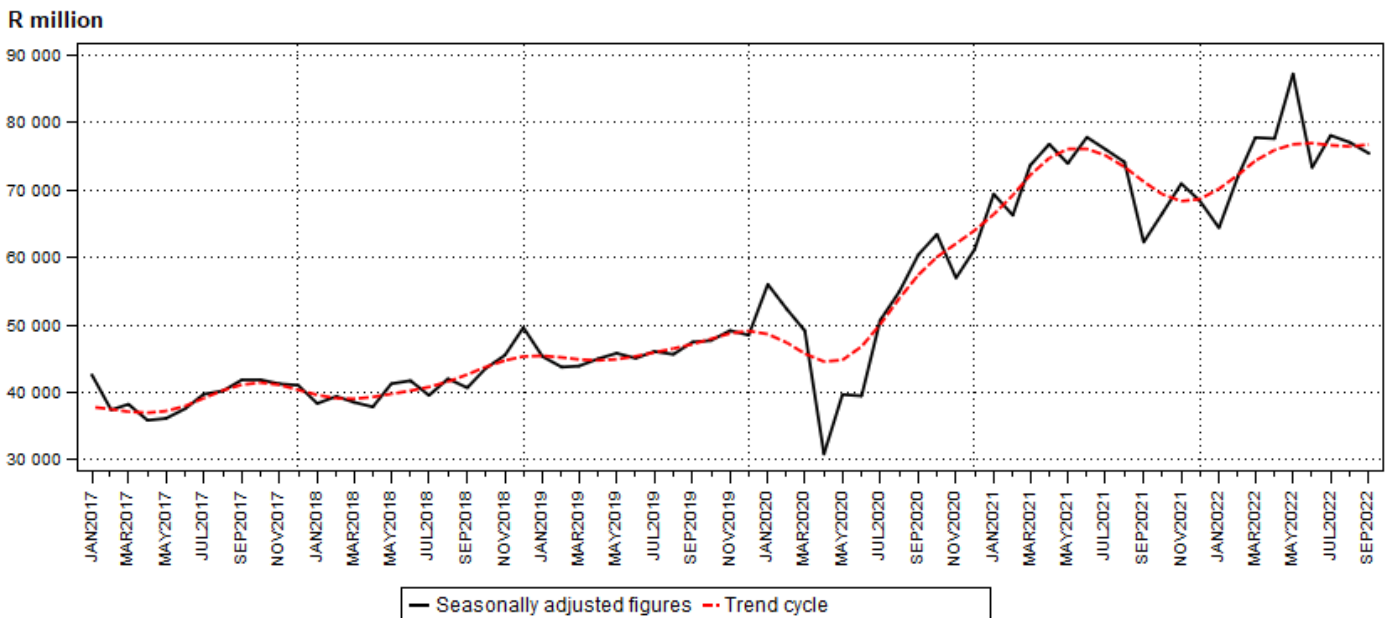
- coal (63,1% and contributing 14,1 percentage points);
- gold (122,4% and contributing 10,0 percentage points);
- ‘other’ metallic minerals (164,0% and contributing 3,1 percentage points); and
- manganese ore (33,0% and contributing 1,7 percentage points).

PGMs (-22,9% and contributing -8,8 percentage points) and iron ore (-18,2% and contributing -2,6 percentage points) were significant negative contributors – see Tables 12 and 13.

Seasonally adjusted mineral sales at current prices decreased by 2,1% in September 2022 compared with August 2022. This followed month-on-month changes of -1,3% in August 2022 and 6,5% in July 2022.

Mineral sales at current prices decreased by 3,2% in the third quarter of 2022 compared with the second quarter of 2022.

**Figure 3 – Total value of mineral sales at current prices**



**Risenga Maluleke**  
**Statistician-General**

## Tables

Table 1 – Index of the volume of mining production (Base: 2019=100)

Month	2016	2017	2018	2019	2020 <sup>*</sup>	2021 <sup>1</sup>	2022 <sup>1</sup>
Jan	83,7	87,1	89,2	86,3	92,1	84,5	85,1
Feb	84,9	86,7	90,1	83,5	89,7	86,5	81,2
Mar	92,7	107,3	99,2	99,3	84,8	104,6	96,8
Apr	96,4	96,4	93,4	93,1	46,2	101,2	86,0
May	102,1	103,9	104,7	106,3	83,0	103,2	95,8
Jun	107,6	108,6	113,2	110,3	85,0	105,9	98,5
Jul	101,9	105,7	99,2	101,9	96,3	107,1	98,1
Aug	106,1	114,9	108,4	105,6	102,5	108,1	101,2
Sep	107,9	106,3	104,9	105,5	102,8	102,4	97,8
Oct	101,4	106,4	109,2	107,5	102,2	103,9	
Nov	102,4	108,8	105,5	106,0	97,2	101,9	
Dec	99,9	98,3	94,1	94,5	93,0	90,5	
<b>Year</b>	<b>98,9</b>	<b>102,5</b>	<b>100,9</b>	<b>100,0</b>	<b>89,6</b>	<b>100,0</b>	

<sup>1</sup> Preliminary.<sup>\*</sup> Revised.

Table 2 – Year-on-year percentage change in the volume of mining production

Month	2017	2018	2019	2020	2021	2022	2022 year-to-date
Jan	4,1	2,4	-3,3	6,7	-8,3	0,7	0,7
Feb	2,1	3,9	-7,3	7,4	-3,6	-6,1	-2,7
Mar	15,7	-7,5	0,1	-14,6	23,3	-7,5	-4,5
Apr	0,0	-3,1	-0,3	-50,4	119,0	-15,0	-7,4
May	1,8	0,8	1,5	-21,9	24,3	-7,2	-7,3
Jun	0,9	4,2	-2,6	-22,9	24,6	-7,0	-7,3
Jul	3,7	-6,1	2,7	-5,5	11,2	-8,4	-7,4
Aug	8,3	-5,7	-2,6	-2,9	5,5	-6,4	-7,3
Sep	-1,5	-1,3	0,6	-2,6	-0,4	-4,5	-7,0
Oct	4,9	2,6	-1,6	-4,9	1,7		
Nov	6,3	-3,0	0,5	-8,3	4,8		
Dec	-1,6	-4,3	0,4	-1,6	-2,7		
<b>Year</b>	<b>3,6</b>	<b>-1,6</b>	<b>-0,9</b>	<b>-10,4</b>	<b>11,6</b>		

Table 3 – Seasonally adjusted volume of total mining production

Month	Index (Base:2019=100)				Month-on-month % change			
	2019	2020	2021	2022	2019	2020	2021	2022
Jan	98,1	104,1	96,3	97,6	-0,1	6,9	-0,4	4,9
Feb	96,4	101,4	99,5	92,7	-1,7	-2,6	3,3	-5,0
Mar	98,7	85,0	103,6	95,7	2,4	-16,2	4,1	3,2
Apr	99,1	50,1	108,2	91,5	0,4	-41,1	4,4	-4,4
May	102,1	80,5	100,4	92,7	3,0	60,7	-7,2	1,3
Jun	103,0	78,8	98,1	92,2	0,9	-2,1	-2,3	-0,5
Jul	98,8	93,0	103,0	94,5	-4,1	18,0	5,0	2,5
Aug	98,5	96,7	101,5	93,9	-0,3	4,0	-1,5	-0,6
Sep	101,9	98,3	98,8	94,0	3,5	1,7	-2,7	0,1
Oct	102,6	96,7	99,3		0,7	-1,6	0,5	
Nov	102,1	94,9	98,0		-0,5	-1,9	-1,3	
Dec	97,4	96,7	93,0		-4,6	1,9	-5,1	

**Table 4 – Index of the volume of mining production by mineral group and mineral (Base: 2019=100) <sup>1</sup>**

Mineral group and mineral	Weight	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Gold	15,91	68,4	74,9	77,4	86,0	95,2	93,7
Iron ore	11,92	90,6	93,9	110,2	92,9	101,1	78,4
Chromium ore	3,62	108,0	114,5	114,0	116,2	115,4	107,7
Copper <sup>2</sup>	0,76	87,4	79,2	120,3	91,4	82,9	107,2
Manganese ore	6,18	115,0	108,9	122,6	125,0	130,1	116,5
PGMs	22,96	89,8	111,0	98,7	92,7	97,5	98,4
Nickel	1,15	65,7	81,8	74,0	71,8	69,2	69,9
Other metallic minerals	2,35	104,9	103,7	99,6	103,0	116,3	104,6
Diamonds	3,20	129,4	113,0	136,2	130,2	157,8	167,9
Coal	27,85	77,0	89,0	93,8	100,2	93,3	94,2
Building materials	3,32	77,0	95,9	98,7	99,7	103,3	101,4
Other non-metallic minerals	0,78	84,5	91,2	106,6	102,0	101,8	107,0
<b>Total</b>	<b>100,00</b>	<b>86,0</b>	<b>95,8</b>	<b>98,5</b>	<b>98,1</b>	<b>101,2</b>	<b>97,8</b>

<sup>1</sup> All index values in this table are preliminary. Annual averages and annual percentage changes are available on the following link: [Annual data](#)

<sup>2</sup> Large revisions were made in copper production and sales (2020–2022) based on data received from the Department of Mineral Resources and Energy.

**Table 5 – Seasonally adjusted index of the volume of mining production by mineral group and mineral (Base: 2019=100)**

Mineral group and mineral	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Month-on-month % change
Gold	78,6	77,3	74,1	82,9	85,4	84,1	-1,5
Iron ore	96,8	91,1	95,1	87,9	94,4	81,1	-14,1
Chromium ore	106,9	107,6	108,3	107,9	108,4	103,2	-4,8
Copper <sup>1</sup>	87,4	79,2	120,3	91,4	82,9	107,2	29,3
Manganese ore	110,5	99,3	111,0	122,1	117,8	113,4	-3,7
PGMs	94,7	105,3	93,3	94,8	92,3	95,5	3,5
Nickel <sup>1</sup>	65,7	81,8	74,0	71,8	69,2	69,9	1,0
Other metallic minerals <sup>1</sup>	104,9	103,7	99,6	103,0	116,3	104,6	-10,1
Diamonds <sup>1</sup>	129,4	113,0	136,2	130,2	157,8	167,9	6,4
Coal	83,8	86,5	88,5	92,4	85,1	89,8	5,5
Building materials	88,1	88,6	89,0	92,1	91,0	91,8	0,9
Other non-metallic minerals	90,9	90,5	101,0	100,1	99,3	98,1	-1,2
<b>Total</b>	<b>91,5</b>	<b>92,7</b>	<b>92,2</b>	<b>94,5</b>	<b>93,9</b>	<b>94,0</b>	<b>0,1</b>

<sup>1</sup> Unadjusted. See notes 4, 5 and 6 on page 11.

**Table 6 – Year-on-year percentage change in the volume of mining production by mineral group and mineral**

Mineral group and mineral	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Gold	-27,5	-28,0	-28,5	-18,9	-17,1	-12,4
Iron ore	0,7	-6,8	-0,4	-21,2	-15,0	-23,1
Chromium ore	-1,6	3,9	-0,9	-1,1	0,1	-2,8
Copper	-17,2	-28,1	12,4	-15,3	-26,2	36,4
Manganese ore	-10,4	-14,4	-0,5	11,4	25,0	-7,5
PGMs	-22,6	4,2	-10,2	-12,3	-12,9	-1,1
Nickel	-19,3	17,9	8,8	3,0	2,7	-3,1
Other metallic minerals	22,1	2,9	24,0	63,5	53,6	25,1
Diamonds	-1,6	-0,4	31,2	-14,8	-3,7	2,0
Coal	-14,6	-6,4	-5,3	-1,7	-2,7	1,6
Building materials	-19,8	-8,6	-4,0	-3,4	0,0	-2,2
Other non-metallic minerals	-1,6	-8,5	17,9	-10,5	33,9	27,8
<b>Total</b>	<b>-15,0</b>	<b>-7,2</b>	<b>-7,0</b>	<b>-8,4</b>	<b>-6,4</b>	<b>-4,5</b>

**Table 7 – Contribution of each mineral group and mineral to the year-on-year percentage change in the volume of mining production (percentage points)**

Mineral group and mineral	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Gold	-4,1	-4,5	-4,6	-3,0	-2,9	-2,1
Iron ore	0,1	-0,8	0,0	-2,8	-2,0	-2,7
Chromium ore	-0,1	0,2	0,0	0,0	0,0	-0,1
Copper	-0,1	-0,2	0,1	-0,1	-0,2	0,2
Manganese ore	-0,8	-1,1	0,0	0,7	1,5	-0,6
PGMs	-5,9	1,0	-2,4	-2,8	-3,1	-0,2
Nickel	-0,2	0,1	0,1	0,0	0,0	0,0
Other metallic minerals	0,4	0,1	0,4	0,9	0,9	0,5
Diamonds	-0,1	0,0	1,0	-0,7	-0,2	0,1
Coal	-3,6	-1,6	-1,4	-0,4	-0,7	0,4
Building materials	-0,6	-0,3	-0,1	-0,1	0,0	-0,1
Other non-metallic minerals	0,0	-0,1	0,1	-0,1	0,2	0,2
<b>Total</b>	<b>-15,0</b>	<b>-7,2</b>	<b>-7,0</b>	<b>-8,4</b>	<b>-6,4</b>	<b>-4,5</b>



**Table 8 – Mineral sales at current prices (R million)**

Month	2016	2017	2018	2019	2020 *	2021 <sup>1</sup>	2022 <sup>1</sup>
Jan	25 021,7	37 903,7	34 420,4	41 070,7	51 128,5	63 479,1	58 998,4
Feb	30 250,9	33 691,7	34 892,7	38 202,9	45 135,2	56 883,8	61 635,4
Mar	35 051,0	39 473,2	39 778,5	45 585,3	51 606,4	78 183,9	83 415,9
Apr	36 202,7	34 917,1	37 039,5	44 538,7	31 064,5	78 566,0	80 234,0
May	36 489,3	36 288,4	41 684,6	46 519,8	40 521,7	75 958,2	89 739,5
Jun	43 040,2	40 672,0	45 024,3	48 295,2	41 962,5	82 014,6	76 849,0
Jul	33 169,6	37 150,3	37 118,1	43 596,0	48 588,4	73 631,0	76 212,3
Aug	36 902,6	40 890,3	43 022,2	47 069,2	56 868,0	77 069,1	80 295,9
Sep	47 602,2	44 264,9	43 017,4	50 009,3	63 394,0	65 000,2	78 430,9
Oct	35 817,0	43 966,4	45 802,3	50 051,2	66 165,3	69 016,1	
Nov	36 800,3	42 104,9	46 680,3	50 450,7	58 255,9	72 050,3	
Dec	41 242,0	42 562,3	50 020,5	47 491,9	58 501,2	64 570,6	
<b>Total</b>	<b>437 589,5</b>	<b>473 885,2</b>	<b>498 500,8</b>	<b>552 880,9</b>	<b>613 191,6</b>	<b>856 422,9</b>	

<sup>1</sup> Preliminary.

\* Revised.

**Table 9 – Year-on-year percentage change in mineral sales at current prices**

Month	2017	2018	2019	2020	2021	2022	2022 year-to-date
Jan	51,5	-9,2	19,3	24,5	24,2	-7,1	-7,1
Feb	11,4	3,6	9,5	18,1	26,0	8,4	0,2
Mar	12,6	0,8	14,6	13,2	51,5	6,7	2,8
Apr	-3,6	6,1	20,2	-30,3	152,9	2,1	2,6
May	-0,6	14,9	11,6	-12,9	87,5	18,1	5,9
Jun	-5,5	10,7	7,3	-13,1	95,4	-6,3	3,6
Jul	12,0	-0,1	17,5	11,5	51,5	3,5	3,6
Aug	10,8	5,2	9,4	20,8	35,5	4,2	3,7
Sep	-7,0	-2,8	16,3	26,8	2,5	20,7	5,4
Oct	22,8	4,2	9,3	32,2	4,3		
Nov	14,4	10,9	8,1	15,5	23,7		
Dec	3,2	17,5	-5,1	23,2	10,4		
<b>Total</b>	<b>8,3</b>	<b>5,2</b>	<b>10,9</b>	<b>10,9</b>	<b>39,7</b>		

**Table 10 – Seasonally adjusted total mineral sales at current prices**

Month	R million				Month-on-month % change			
	2019	2020	2021	2022	2019	2020	2021	2022
Jan	45 321,0	56 026,1	69 404,7	64 409,6	-8,6	15,5	13,4	-5,9
Feb	43 757,5	52 328,7	66 277,5	72 091,9	-3,4	-6,6	-4,5	11,9
Mar	43 909,1	49 139,6	73 648,1	77 793,9	0,3	-6,1	11,1	7,9
Apr	44 985,4	30 873,6	76 814,5	77 637,3	2,5	-37,2	4,3	-0,2
May	45 808,0	39 681,1	73 962,9	87 234,4	1,8	28,5	-3,7	12,4
Jun	45 067,1	39 485,0	77 842,5	73 343,2	-1,6	-0,5	5,2	-15,9
Jul	46 070,2	50 676,7	76 061,9	78 110,8	2,2	28,3	-2,3	6,5
Aug	45 648,7	54 925,5	74 155,5	77 078,5	-0,9	8,4	-2,5	-1,3
Sep	47 462,9	60 429,7	62 279,4	75 445,4	4,0	10,0	-16,0	-2,1
Oct	47 698,4	63 432,8	66 523,5		0,5	5,0	6,8	
Nov	49 172,7	56 973,6	70 962,9		3,1	-10,2	6,7	
Dec	48 492,3	61 186,3	68 412,3		-1,4	7,4	-3,6	

**Table 11 – Mineral sales at current prices by mineral group and mineral (R million) <sup>1</sup>**

Mineral group and mineral	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Gold	6 208,3	9 184,7	5 428,5	8 173,8	9 700,6	11 761,5
Iron ore	9 321,1	11 696,1	9 195,4	7 947,1	6 466,4	7 683,5
Chromium ore	2 865,2	3 397,9	3 021,3	3 172,2	2 709,3	2 690,8
Copper <sup>2</sup>	221,8	610,8	402,3	156,1	564,1	498,6
Manganese ore	3 835,6	4 901,4	4 544,2	4 461,3	4 676,9	4 468,6
PGMs	29 291,1	27 742,2	23 503,3	22 646,8	22 426,8	19 156,5
Nickel	931,9	1 478,6	1 393,8	811,2	1 020,5	1 404,1
Other metallic minerals	1 536,8	2 322,8	2 441,7	2 860,3	2 291,3	3 234,3
Coal	21 647,6	24 762,2	21 411,4	22 130,8	25 405,5	23 768,1
Building materials	902,2	1 050,6	1 157,0	1 094,3	1 150,0	1 111,5
Other non-metallic minerals	3 472,4	2 592,2	4 350,1	2 758,3	3 884,5	2 653,3
<b>Total</b>	<b>80 234,0</b>	<b>89 739,5</b>	<b>76 849,0</b>	<b>76 212,3</b>	<b>80 295,9</b>	<b>78 430,9</b>

<sup>1</sup> All values in this table are preliminary.

<sup>2</sup> Large revisions were made in copper production and sales (2020–2022) based on data received from the Department of Mineral Resources and Energy.

**Table 12 – Year-on-year percentage change in mineral sales at current prices by mineral group and mineral**

Mineral group and mineral	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Gold	-10,6	165,1	-54,4	-2,0	-20,5	122,4
Iron ore	-18,3	-5,5	-26,0	-33,1	-34,3	-18,2
Chromium ore	40,6	86,6	63,9	93,3	35,5	36,5
Copper	-58,8	16,3	-9,8	-27,2	28,2	1,9
Manganese ore	35,6	52,4	86,5	43,6	42,4	33,0
PGMs	-24,2	-26,3	-30,8	-29,4	-25,0	-22,9
Nickel	81,1	84,8	71,2	561,7	30,7	100,1
Other metallic minerals	12,3	45,3	34,8	99,4	86,4	164,0
Coal	91,3	119,5	69,2	84,2	83,2	63,1
Building materials	-3,2	-4,1	9,2	1,9	7,9	-1,7
Other non-metallic minerals	70,6	20,5	62,6	59,1	56,6	32,0
<b>Total</b>	<b>2,1</b>	<b>18,1</b>	<b>-6,3</b>	<b>3,5</b>	<b>4,2</b>	<b>20,7</b>

**Table 13 – Contribution of each mineral group and mineral to the year-on-year percentage change in mineral sales at current prices (percentage points)**

Mineral group and mineral	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22
Gold	-0,9	7,5	-7,9	-0,2	-3,2	10,0
Iron ore	-2,7	-0,9	-3,9	-5,3	-4,4	-2,6
Chromium ore	1,1	2,1	1,4	2,1	0,9	1,1
Copper	-0,4	0,1	-0,1	-0,1	0,2	0,0
Manganese ore	1,3	2,2	2,6	1,8	1,8	1,7
PGMs	-11,9	-13,0	-12,7	-12,8	-9,7	-8,8
Nickel	0,5	0,9	0,7	0,9	0,3	1,1
Other metallic minerals	0,2	1,0	0,8	1,9	1,4	3,1
Coal	13,1	17,7	10,7	13,7	15,0	14,1
Building materials	0,0	-0,1	0,1	0,0	0,1	0,0
Other non-metallic minerals	1,8	0,6	2,0	1,4	1,8	1,0
<b>Total</b>	<b>2,1</b>	<b>18,1</b>	<b>-6,3</b>	<b>3,5</b>	<b>4,2</b>	<b>20,7</b>

## Survey information

<b>Introduction</b>	1	Statistics South Africa (Stats SA) publishes monthly mining production indices and mineral sales based on the information furnished by the Department of Mineral Resources and Energy (DMRE). Data in this release are presented by mineral group and mineral.
	2	In accordance with international practice, the indices are usually re-based every five years to a new base year. The current base year of the index of the volume of mining production is 2019=100. Both actual and seasonally adjusted figures are presented.
	3	The value of mineral sales is calculated, in general, on a free-on-rail/free-on-board basis.
	4	In order to improve timeliness, some information for the current month had to be estimated due to late response. These estimates will be revised in future statistical release(s) as soon as more up-to-date information is available.
<b>Purpose of the survey</b>	5	The monthly mining production and sales survey is conducted by the DMRE, covering all mining establishments operating in the South African economy. The results of this survey are used to calculate the volume of mining production indices in order to estimate the gross domestic product (GDP) and its components, which in turn are used to develop and monitor government policy.
<b>Scope of the survey</b>	6	This survey covers mining establishments conducting activities regarding the extracting, dressing and beneficiating of minerals occurring naturally, for example solids such as coal and ores.
<b>Classification</b>	7	The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities</i> (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities</i> (ISIC) with suitable adaptations for local conditions. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment. Statistics in this publication are presented by mineral group and mineral.
<b>Statistical unit</b>	8	The statistical unit for the collection of information is the mining establishment. An establishment is the smallest economic unit that functions as a separate entity.
<b>Rounding-off of figures</b>	9	The figures in the tables have, where necessary, been rounded off to the nearest digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.
<b>Historical data and past publications</b>	10	Historical mining data and past publications are available on the Stats SA website. Click on the following link ( <a href="#">Time series data</a> ) or ( <a href="#">Past publications</a> ) to access the data and releases electronically. Annual averages and annual percentage changes are available on the following link: <a href="#">Annual data</a>

## Technical notes

<b>Index of the volume of mining production</b>	<b>1</b>	The index of the volume of mining production, also known 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 current base period is 2019. The production in the base period is set at 100.
<b>Index weighting</b>	<b>2</b>	The weight of a mineral group is the ratio of its value added to the total value added of the mining industry. The weight of a mineral group reflects the importance of the mineral group in the total mining industry. The weights change over time due to quality improvements and changes in relative prices. New weights will be calculated annually.
	<b>3</b>	The weights, which are used to aggregate minerals to mineral groups and mineral groups to total mining, are derived from national accounts value added data. The latest weights (implemented in the May 2022 publication) are based on an average of value added data for the years 2017, 2018 and 2019. These weights are applicable from January 2019.
<b>Seasonal adjustment</b>	<b>4</b>	Seasonally adjusted estimates are generated each month using the X-12-ARIMA Seasonal Adjustment Program developed by the United States Census Bureau. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be recognised more clearly. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which may be present in any particular month.
	<b>5</b>	Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour. The X-12-ARIMA procedure for mining production and sales is described in more detail on the Stats SA website at: <a href="#">Click to download seasonal adjustment for mining production and sales February 2022</a>
<b>Calendar effects</b>	<b>6</b>	These are effects due to calendar variations. Such calendar effects include the number of working/trading days in a week, moving holidays such as Easter and the length of month (some months have more days than others).
<b>Trend cycle</b>	<b>7</b>	The trend is the long-term pattern or movement of a time series. The X-12-ARIMA Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates to estimate the underlying trend cycle.
<b>Reliability of estimates</b>	<b>8</b>	Figures for the latest 2 calendar years are preliminary.
<b>Month-on-month percentage change</b>	<b>9</b>	The month-on-month percentage change in a variable for any given month is the change between that month and the previous month, expressed as a percentage of the latter.
<b>Year-on-year percentage change</b>	<b>10</b>	The year-on-year percentage change in a variable for any given period is the change between that period and the corresponding period of the previous year, expressed as a percentage of the latter.
<b>Index contribution (percentage points)</b>	<b>11</b>	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.

**Sales contribution (percentage points)** 12 The contribution (percentage points) to the percentage change in total sales for a given period is calculated by multiplying the percentage change of each mineral group or mineral with its percentage contribution to total mineral sales of the previous period, divided by 100.

## Glossary

<b>Free-on-rail</b>	Free-on-rail relates to goods sold on the local market where no railage or road transport costs are involved.																
<b>Free-on-board</b>	Free-on-board relates to goods destined for the export market. Railage, road transport and docking charges are involved but no charges are made for transport by sea.																
<b>Industry</b>	An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the <i>System of National Accounts (SNA)</i> in the same way as in the <i>Standard Industrial Classification of all Economic Activities (SIC)</i> , Fifth Edition of January 1993.																
<b>PGMs – Platinum group metals</b>	Platinum group metals include platinum, iridium, osmiridium, palladium, rhodium, ruthenium and osmium.																
<b>Sales</b>	Sales are the total value of sales of primary minerals at the first point of saleability by the mining establishment.																
<b>Symbols and abbreviations</b>	<table> <tr> <td>DMRE</td> <td>Department of Mineral Resources and Energy</td> </tr> <tr> <td>GDP</td> <td>Gross domestic product</td> </tr> <tr> <td>ISIC</td> <td>International Standard Industrial Classification</td> </tr> <tr> <td>PGMs</td> <td>Platinum group metals</td> </tr> <tr> <td>SIC</td> <td>Standard Industrial Classification of all Economic Activities</td> </tr> <tr> <td>SNA</td> <td>System of National Accounts</td> </tr> <tr> <td>Stats SA</td> <td>Statistics South Africa</td> </tr> <tr> <td>*</td> <td>Revised</td> </tr> </table>	DMRE	Department of Mineral Resources and Energy	GDP	Gross domestic product	ISIC	International Standard Industrial Classification	PGMs	Platinum group metals	SIC	Standard Industrial Classification of all Economic Activities	SNA	System of National Accounts	Stats SA	Statistics South Africa	*	Revised
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*	Revised																

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