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## **STATISTICAL RELEASE**

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# Mining: Production and sales (Preliminary)

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## Production: results for August 2022

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

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

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

Mining production decreased by 5,9% year-on-year in August 2022. The largest negative contributors were:

- PGMs (-12,9% and contributing -3,1 percentage points);
- gold (-17,4% and contributing -3,0 percentage points); and
- iron ore (-15,2% and contributing -2,0 percentage points).

Manganese ore was a significant positive contributor (25,4% and contributing 1,5 percentage points) – see Tables 6 and 7.

Seasonally adjusted mining production was flat in August 2022 compared with July 2022. This followed month-on-month changes of 3,1% in July 2022 and -1,0% in June 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	Mar – May 2022	Jun – Aug 2022	% change between Mar – May 2022 and Jun – Aug 2022	Contribution (% points) to the % change in total mining production
Gold	15,91	79,1	80,6	1,9	0,3
Iron ore	11,92	93,4	94,3	1,0	0,1
Chromium ore	3,62	110,0	108,4	-1,5	-0,1
Copper <sup>1</sup>	0,76	50,7	52,5	3,6	0,0
Manganese ore	6,18	104,4	117,4	12,5	0,9
PGMs	22,96	99,7	94,0	-5,7	-1,4
Nickel <sup>1</sup>	1,15	70,9	71,7	1,1	0,0
Other metallic minerals <sup>1</sup>	2,35	102,1	106,3	4,1	0,1
Diamonds <sup>1</sup>	3,20	141,4	141,5	0,1	0,0
Coal	27,85	86,9	89,0	2,4	0,6
Building materials	3,32	89,7	90,5	0,9	0,0
Other non-metallic minerals	0,78	97,4	100,9	3,6	0,0
<b>Total</b>	<b>100,00</b>	<b>93,1</b>	<b>93,7</b>	<b>0,6</b>	<b>0,6</b>

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

Seasonally adjusted mining production increased by 0,6% in the three months ended August 2022 compared with the previous three months. Manganese ore (12,5% and contributing 0,9 of a percentage point) and coal (2,4% and contributing 0,6 of a percentage point) were the largest positive contributors. PGMs (-5,7% and contributing -1,4 percentage points) was a significant negative contributor – see Table B.

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

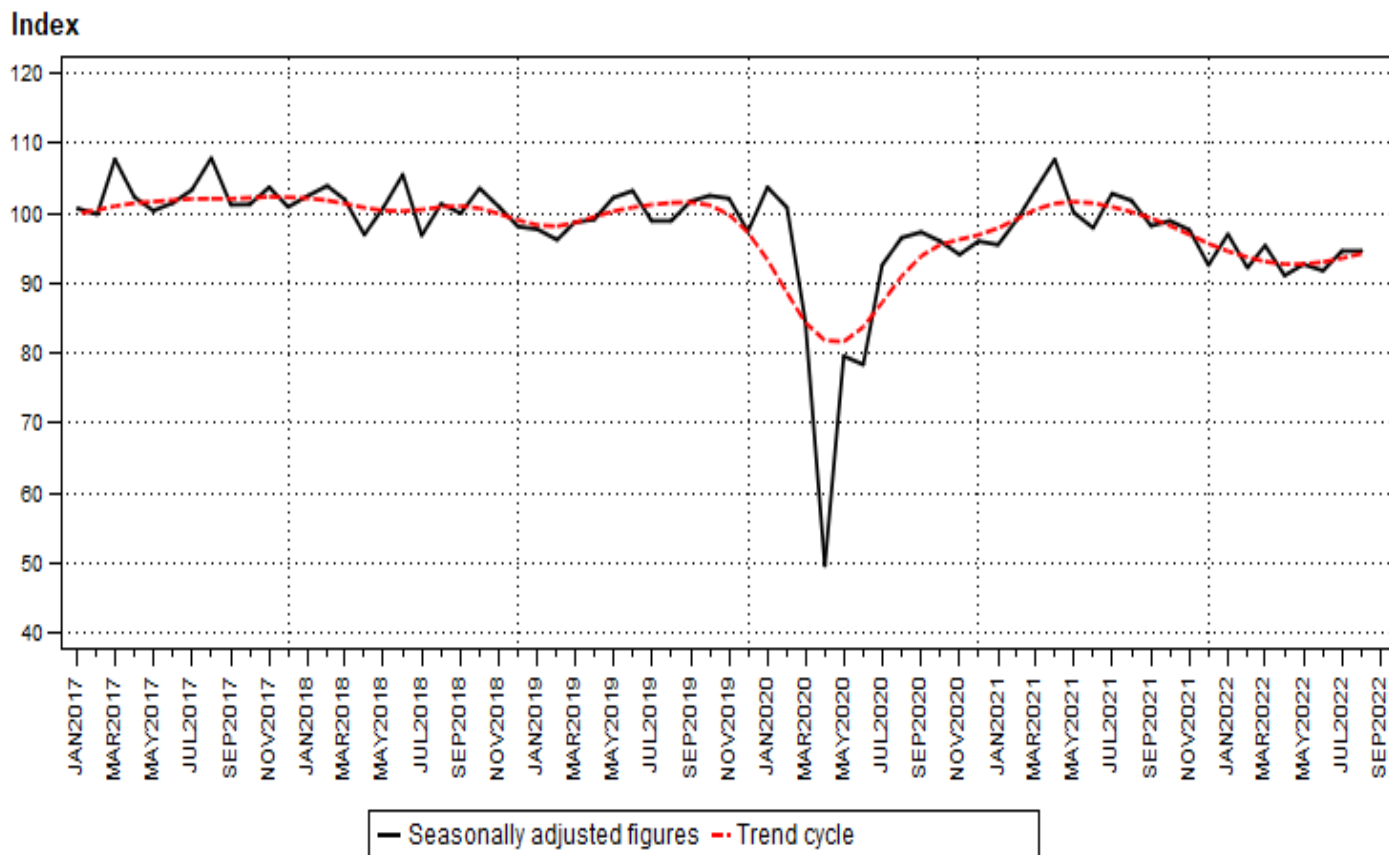
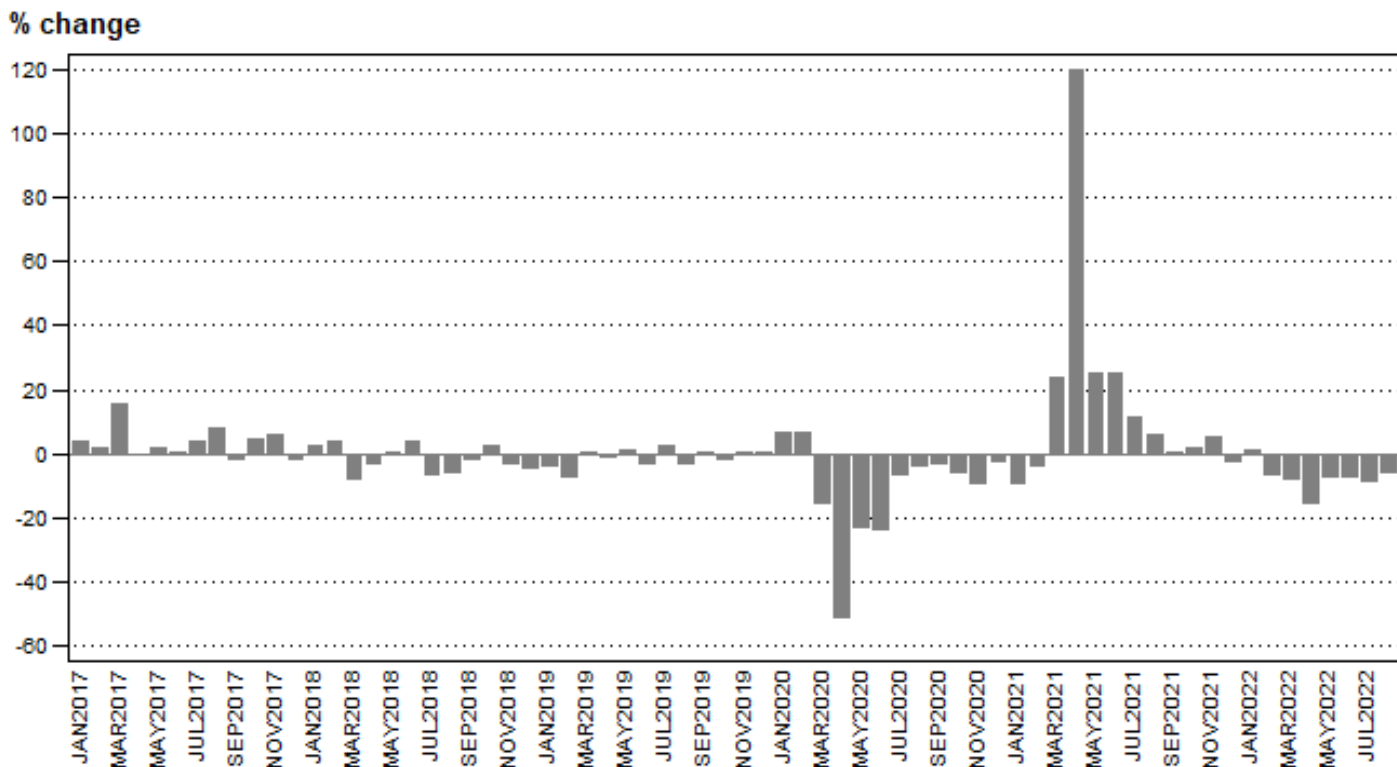


Figure 2 – Volume of mining production (Base: 2019=100): year-on-year percentage change



**Sales: results for August 2022**

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

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

<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 4,3% year-on-year in August 2022. The largest positive contributors were:

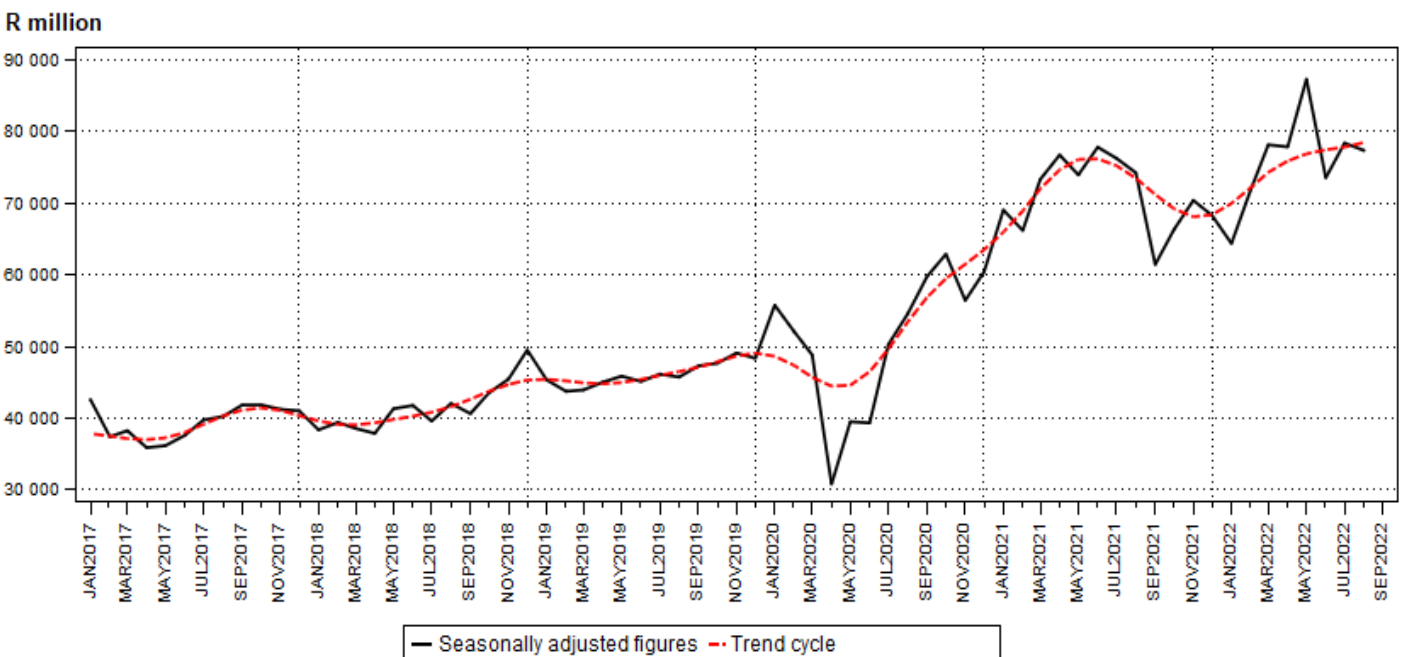
- coal (83,1% and contributing 15,0 percentage points);
- ‘other’ non-metallic minerals (70,0% and contributing 2,3 percentage points);
- manganese ore (42,4% and contributing 1,8 percentage points); and
- ‘other’ metallic minerals (86,4% and contributing 1,4 percentage points).

PGMs (-25,0% and contributing -9,7 percentage points), iron ore (-36,5% and contributing -4,7 percentage points) and gold (-20,5% and contributing -3,3 percentage points) were significant negative contributors – see Tables 12 and 13.

Seasonally adjusted mineral sales at current prices decreased by 1,3% in August 2022 compared with July 2022. This followed month-on-month changes of 6,6% in July 2022 and -15,8% in June 2022.

Mineral sales at current prices decreased by 5,8% in the three months ended August 2022 compared with the previous three months.

**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>1</sup>	2021 <sup>1</sup>	2022 <sup>1</sup>
Jan	83,7	87,1	89,2	86,3	92,1	84,0	84,9
Feb	84,9	86,7	90,1	83,5	89,3	86,3	80,9
Mar	92,7	107,3	99,2	99,3	84,3	104,3	96,5
Apr	96,4	96,4	93,4	93,1	46,0	101,0	85,8
May	102,1	103,9	104,7	106,3	81,9	102,8	95,6
Jun	107,6	108,6	113,2	110,3	84,5	105,5	97,9
Jul	101,9	105,7	99,2	101,9	95,6	106,4	97,7
Aug	106,1	114,9	108,4	105,6	101,7	107,7	101,3
Sep	107,9	106,3	104,9	105,5	102,1	102,4	
Oct	101,4	106,4	109,2	107,5	101,5	103,7	
Nov	102,4	108,8	105,5	106,0	96,4	101,6	
Dec	99,9	98,3	94,1	94,5	92,4	90,2	
<b>Year</b>	<b>98,9</b>	<b>102,5</b>	<b>100,9</b>	<b>100,0</b>	<b>89,0</b>	<b>99,7</b>	

<sup>1</sup> Preliminary.

**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	-8,8	1,1	1,1
Feb	2,1	3,9	-7,3	6,9	-3,4	-6,3	-2,6
Mar	15,7	-7,5	0,1	-15,1	23,7	-7,5	-4,5
Apr	0,0	-3,1	-0,3	-50,6	119,6	-15,0	-7,3
May	1,8	0,8	1,5	-23,0	25,5	-7,0	-7,3
Jun	0,9	4,2	-2,6	-23,4	24,9	-7,2	-7,2
Jul	3,7	-6,1	2,7	-6,2	11,3	-8,2	-7,4
Aug	8,3	-5,7	-2,6	-3,7	5,9	-5,9	-7,2
Sep	-1,5	-1,3	0,6	-3,2	0,3		
Oct	4,9	2,6	-1,6	-5,6	2,2		
Nov	6,3	-3,0	0,5	-9,1	5,4		
Dec	-1,6	-4,3	0,4	-2,2	-2,4		
<b>Year</b>	<b>3,6</b>	<b>-1,6</b>	<b>-0,9</b>	<b>-11,0</b>	<b>12,0</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	97,7	103,7	95,5	97,0	-0,4	6,5	-0,5	4,8
Feb	96,2	100,8	99,2	92,2	-1,5	-2,8	3,9	-4,9
Mar	98,7	84,6	103,3	95,4	2,6	-16,1	4,1	3,5
Apr	99,1	49,7	107,7	91,1	0,4	-41,3	4,3	-4,5
May	102,2	79,6	100,1	92,7	3,1	60,2	-7,1	1,8
Jun	103,2	78,4	97,9	91,8	1,0	-1,5	-2,2	-1,0
Jul	98,9	92,6	102,8	94,6	-4,2	18,1	5,0	3,1
Aug	98,9	96,5	101,8	94,6	0,0	4,2	-1,0	0,0
Sep	101,7	97,3	98,2		2,8	0,8	-3,5	
Oct	102,5	96,0	98,9		0,8	-1,3	0,7	
Nov	102,1	94,1	97,6		-0,4	-2,0	-1,3	
Dec	97,4	96,0	92,6		-4,6	2,0	-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	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22
Gold	15,91	77,3	68,3	74,7	77,2	85,8	94,8
Iron ore	11,92	93,0	90,6	93,9	110,2	92,6	100,9
Chromium ore	3,62	114,1	108,0	114,6	112,5	116,2	115,7
Copper	0,76	44,7	50,0	57,5	64,3	48,9	44,4
Manganese ore	6,18	93,0	115,0	108,9	121,6	125,9	130,5
PGMs	22,96	103,3	89,8	111,0	98,7	92,7	97,5
Nickel	1,15	65,2	65,7	81,8	74,0	71,8	69,2
Other metallic minerals	2,35	97,7	104,9	103,7	99,6	103,0	116,3
Diamonds	3,20	181,5	129,6	113,1	136,4	130,2	157,8
Coal	27,85	94,8	77,0	89,0	93,8	100,2	94,6
Building materials	3,32	96,2	77,0	96,2	98,4	98,1	101,3
Other non-metallic minerals	0,78	94,0	88,4	95,4	103,1	103,0	112,5
<b>Total</b>	<b>100,00</b>	<b>96,5</b>	<b>85,8</b>	<b>95,6</b>	<b>97,9</b>	<b>97,7</b>	<b>101,3</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](#)

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

Mineral group and mineral	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Month-on-month % change
Gold	82,1	78,4	76,9	73,7	82,3	85,7	4,1
Iron ore	92,6	96,5	91,1	95,5	89,3	98,2	10,0
Chromium ore	115,2	107,1	107,8	107,6	108,3	109,2	0,8
Copper <sup>1</sup>	44,7	50,0	57,5	64,3	48,9	44,4	-9,2
Manganese ore	102,4	111,0	99,7	110,8	122,3	119,0	-2,7
PGMs	98,3	95,0	105,7	93,8	95,4	92,8	-2,7
Nickel <sup>1</sup>	65,2	65,7	81,8	74,0	71,8	69,2	-3,6
Other metallic minerals <sup>1</sup>	97,7	104,9	103,7	99,6	103,0	116,3	12,9
Diamonds <sup>1</sup>	181,5	129,6	113,1	136,4	130,2	157,8	21,2
Coal	90,5	83,6	86,5	88,4	92,6	86,0	-7,1
Building materials	93,0	85,0	91,0	88,8	92,3	90,4	-2,1
Other non-metallic minerals	93,3	98,0	100,8	100,0	100,4	102,3	1,9
<b>Total</b>	<b>95,4</b>	<b>91,1</b>	<b>92,7</b>	<b>91,8</b>	<b>94,6</b>	<b>94,6</b>	<b>0,0</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	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22
Gold	-28,3	-27,6	-28,1	-28,7	-19,1	-17,4
Iron ore	-10,6	0,7	-6,8	-0,4	-21,5	-15,2
Chromium ore	14,0	-1,6	4,0	-2,2	-1,1	0,3
Copper	-37,2	-12,4	17,6	21,6	-1,0	-11,7
Manganese ore	-17,8	-10,4	-14,4	-1,3	12,2	25,4
PGMs	-5,7	-22,6	4,2	-10,2	-12,3	-12,9
Nickel	-17,2	-19,3	17,9	8,8	3,0	2,7
Other metallic minerals	-2,5	22,0	2,9	24,0	63,5	53,6
Diamonds	45,0	-1,3	-0,3	31,7	-14,7	-3,7
Coal	-2,5	-15,0	-6,8	-5,3	-1,7	-1,4
Building materials	-3,7	-18,2	-6,1	-2,8	-1,6	1,8
Other non-metallic minerals	-2,8	0,5	-4,5	6,7	-0,8	13,1
<b>Total</b>	<b>-7,5</b>	<b>-15,0</b>	<b>-7,0</b>	<b>-7,2</b>	<b>-8,2</b>	<b>-5,9</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	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22
Gold	-4,7	-4,1	-4,5	-4,7	-3,0	-3,0
Iron ore	-1,3	0,1	-0,8	0,0	-2,8	-2,0
Chromium ore	0,5	-0,1	0,2	-0,1	0,0	0,0
Copper	-0,2	-0,1	0,1	0,1	0,0	0,0
Manganese ore	-1,2	-0,8	-1,1	-0,1	0,8	1,5
PGMs	-1,4	-6,0	1,0	-2,4	-2,8	-3,1
Nickel	-0,1	-0,2	0,1	0,1	0,0	0,0
Other metallic minerals	-0,1	0,4	0,1	0,4	0,9	0,9
Diamonds	1,7	-0,1	0,0	1,0	-0,7	-0,2
Coal	-0,6	-3,8	-1,8	-1,4	-0,4	-0,3
Building materials	-0,1	-0,5	-0,2	-0,1	0,0	0,1
Other non-metallic minerals	0,0	0,0	0,0	0,0	0,0	0,1
<b>Total</b>	<b>-7,5</b>	<b>-15,0</b>	<b>-7,0</b>	<b>-7,2</b>	<b>-8,2</b>	<b>-5,9</b>



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

Month	2016	2017	2018	2019	2020 <sup>1</sup>	2021 <sup>1</sup>	2022 <sup>1</sup>
Jan	25 021,7	37 903,7	34 420,4	41 070,7	50 855,5	63 083,5	58 880,9
Feb	30 250,9	33 691,7	34 892,7	38 202,9	44 948,4	56 815,0	61 464,9
Mar	35 051,0	39 473,2	39 778,5	45 585,3	51 236,4	77 751,7	83 673,2
Apr	36 202,7	34 917,1	37 039,5	44 538,7	30 919,9	78 337,6	80 272,8
May	36 489,3	36 288,4	41 684,6	46 519,8	40 263,5	75 765,5	89 532,9
Jun	43 040,2	40 672,0	45 024,3	48 295,2	41 729,3	81 808,0	76 846,2
Jul	33 169,6	37 150,3	37 118,1	43 596,0	48 109,1	73 613,0	76 219,0
Aug	36 902,6	40 890,3	43 022,2	47 069,2	56 334,2	76 818,8	80 139,1
Sep	47 602,2	44 264,9	43 017,4	50 009,3	63 152,0	64 808,1	
Oct	35 817,0	43 966,4	45 802,3	50 051,2	65 675,6	68 923,0	
Nov	36 800,3	42 104,9	46 680,3	50 450,7	57 804,5	71 617,2	
Dec	41 242,0	42 562,3	50 020,5	47 491,9	57 957,2	64 709,0	
<b>Total</b>	<b>437 589,5</b>	<b>473 885,2</b>	<b>498 500,8</b>	<b>552 880,9</b>	<b>608 985,6</b>	<b>854 050,4</b>	

<sup>1</sup> Preliminary.**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	23,8	24,0	-6,7	-6,7
Feb	11,4	3,6	9,5	17,7	26,4	8,2	0,4
Mar	12,6	0,8	14,6	12,4	51,8	7,6	3,2
Apr	-3,6	6,1	20,2	-30,6	153,4	2,5	3,0
May	-0,6	14,9	11,6	-13,4	88,2	18,2	6,3
Jun	-5,5	10,7	7,3	-13,6	96,0	-6,1	3,9
Jul	12,0	-0,1	17,5	10,4	53,0	3,5	3,9
Aug	10,8	5,2	9,4	19,7	36,4	4,3	3,9
Sep	-7,0	-2,8	16,3	26,3	2,6		
Oct	22,8	4,2	9,3	31,2	4,9		
Nov	14,4	10,9	8,1	14,6	23,9		
Dec	3,2	17,5	-5,1	22,0	11,6		
<b>Total</b>	<b>8,3</b>	<b>5,2</b>	<b>10,9</b>	<b>10,1</b>	<b>40,2</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	45 344,2	55 774,2	69 053,9	64 381,0	-8,4	15,4	14,3	-5,7
Feb	43 743,0	52 099,8	66 202,0	71 918,5	-3,5	-6,6	-4,1	11,7
Mar	43 937,3	48 832,5	73 322,4	78 158,4	0,4	-6,3	10,8	8,7
Apr	45 026,3	30 773,2	76 736,1	77 871,7	2,5	-37,0	4,7	-0,4
May	45 859,2	39 500,3	73 961,3	87 322,7	1,8	28,4	-3,6	12,1
Jun	45 127,0	39 339,5	77 829,6	73 552,4	-1,6	-0,4	5,2	-15,8
Jul	46 136,4	50 284,4	76 269,4	78 401,3	2,2	27,8	-2,0	6,6
Aug	45 733,6	54 583,0	74 258,5	77 368,7	-0,9	8,5	-2,6	-1,3
Sep	47 298,1	59 791,6	61 446,2		3,4	9,5	-17,3	
Oct	47 663,6	62 887,3	66 321,1		0,8	5,2	7,9	
Nov	49 093,0	56 436,7	70 404,9		3,0	-10,3	6,2	
Dec	48 351,6	60 400,6	68 291,5		-1,5	7,0	-3,0	

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

Mineral group and mineral	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22
Gold	8 639,5	6 208,3	9 184,7	5 428,5	8 173,8	9 700,6
Iron ore	8 698,8	9 321,1	11 690,8	9 192,5	7 936,5	6 244,8
Chromium ore	2 870,8	2 865,2	3 399,6	3 053,8	3 173,1	2 725,4
Copper	241,5	213,3	344,1	354,3	156,1	325,7
Manganese ore	3 375,5	3 835,6	4 901,4	4 539,3	4 465,3	4 677,8
PGMs	30 127,5	29 291,1	27 742,2	23 503,3	22 646,8	22 426,8
Nickel	1 475,7	931,9	1 478,6	1 393,8	811,2	1 020,5
Other metallic minerals	2 376,3	1 536,8	2 322,8	2 441,7	2 860,6	2 291,3
Coal	21 960,8	21 647,6	24 762,2	21 411,4	22 135,4	25 389,6
Building materials	1 066,4	902,7	1 054,2	1 156,2	1 096,5	1 128,1
Other non-metallic minerals	2 840,5	3 519,2	2 652,3	4 371,4	2 763,6	4 208,5
<b>Total</b>	<b>83 673,2</b>	<b>80 272,8</b>	<b>89 532,9</b>	<b>76 846,2</b>	<b>76 219,0</b>	<b>80 139,1</b>

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

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

Mineral group and mineral	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22
Gold	-11,3	-10,6	165,1	-54,4	-2,0	-20,5
Iron ore	-25,3	-18,3	-5,5	-26,0	-33,2	-36,5
Chromium ore	58,8	40,6	86,6	65,6	93,4	36,3
Copper	-2,0	-23,5	35,0	38,3	-27,2	55,3
Manganese ore	0,4	35,6	52,4	86,3	43,8	42,4
PGMs	-5,7	-24,2	-26,3	-30,8	-29,4	-25,0
Nickel	103,0	81,1	84,8	71,2	561,7	30,7
Other metallic minerals	9,9	12,3	45,3	34,8	99,4	86,4
Coal	84,1	90,3	118,3	69,3	84,2	83,1
Building materials	-0,3	-2,2	-2,4	9,9	3,0	7,0
Other non-metallic minerals	-8,6	74,7	21,8	63,8	60,0	70,0
<b>Total</b>	<b>7,6</b>	<b>2,5</b>	<b>18,2</b>	<b>-6,1</b>	<b>3,5</b>	<b>4,3</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	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22
Gold	-1,4	-0,9	7,6	-7,9	-0,2	-3,3
Iron ore	-3,8	-2,7	-0,9	-3,9	-5,4	-4,7
Chromium ore	1,4	1,1	2,1	1,5	2,1	0,9
Copper	0,0	-0,1	0,1	0,1	-0,1	0,2
Manganese ore	0,0	1,3	2,2	2,6	1,8	1,8
PGMs	-2,3	-11,9	-13,1	-12,8	-12,8	-9,7
Nickel	1,0	0,5	0,9	0,7	0,9	0,3
Other metallic minerals	0,3	0,2	1,0	0,8	1,9	1,4
Coal	12,9	13,1	17,7	10,7	13,7	15,0
Building materials	0,0	0,0	0,0	0,1	0,0	0,1
Other non-metallic minerals	-0,3	1,9	0,6	2,1	1,4	2,3
<b>Total</b>	<b>7,6</b>	<b>2,5</b>	<b>18,2</b>	<b>-6,1</b>	<b>3,5</b>	<b>4,3</b>

## Survey information

- Introduction**
- 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.
- Purpose of the survey**
- 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.
- Scope of the survey**
- 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.
- Classification**
- 7 The 1993 edition of the *Standard Industrial Classification of all Economic Activities* (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 *International Standard Industrial Classification of all Economic Activities* (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.
- Statistical unit**
- 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.
- Rounding-off of figures**
- 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.
- Historical data and past publications**
- 10 Historical mining data and past publications are available on the Stats SA website. Click on the following link ([Time series data](#)) or ([Past publications](#)) to access the data and releases electronically. Annual averages and annual percentage changes are available on the following link: [Annual data](#)

## 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 3 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

**Free-on-rail** Free-on-rail relates to goods sold on the local market where no railage or road transport costs are involved.

**Free-on-board** 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.

**Industry** An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the *System of National Accounts (SNA)* in the same way as in the *Standard Industrial Classification of all Economic Activities (SIC)*, Fifth Edition of January 1993.

**PGMs – Platinum group metals** Platinum group metals include platinum, iridium, osmiridium, palladium, rhodium, ruthenium and osmium.

**Sales** 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>	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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