

# Mining: production and sales

## P2041

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### **Key figures regarding mining production as at May 2000**

<b>Actual estimates</b>	<b>May 2000</b>	<b>% change between May 1999 and May 2000</b>	<b>% change between March 1999 to May 1999 and March 2000 to May 2000</b>	<b>% change between January 1999 to May 1999 and January 2000 to</b>
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				<b>May 2000</b>
Index of the physical volume of mining production	91,0	-9,0%	-4,8%	-2,5%

<b>Seasonally adjusted estimates</b>	<b>May 2000</b>	<b>% change between April 2000 and May 2000</b>	<b>% change between December 1999 to February 2000 and March 2000 to May 2000</b>
Index of the physical volume of mining production	92,4	-2,1%	-3,0%

### **Key findings regarding mining production as at May 2000**

#### **Mining production decreases**

*The total mining production for the three months up to May 2000 decreased by 3,0% after seasonal adjustment compared with the previous three months.*

The decrease of 3,0% after seasonal adjustment in the total mining production was due to a decrease of 2,7% in the production of non-gold minerals during the three months up to May 2000 compared with the previous three months. The major contributors to the decrease of 2,7% after seasonal adjustment in the production of non-gold minerals were the production of diamond (contributing 0,9 of a percentage point), platinum (contributing 0,9 of a percentage point) and copper (contributing 0,2 of a percentage point) minerals.

#### **Key figures regarding mineral sales as at April 2000**

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<b>Actual estimates</b>	<b>April 2000  R million</b>	<b>% change between April 1999 and April 2000</b>	<b>% change between February 1999 to April 1999 and February 2000 to April 2000</b>	<b>% change between January 1999 to April 1999 and January 2000 to April 2000</b>
Mineral sales	7 571,5	+32,8%	+32,6%	+25,1%

<b>Seasonally adjusted estimates</b>	<b>April 2000  R million</b>	<b>% change between March 2000 and April 2000</b>	<b>% change between November 1999 to January 2000 and February 2000 to April 2000</b>
Mineral sales	7 751,2	-13,3%	+12,4%

## Key findings regarding mineral sales as at April 2000

### Mineral sales increase

*The seasonally adjusted value of mineral sales for the three months up to April 2000 reflected an increase of 12,4% compared with the previous three months.*

The 12,4% increase in the seasonally adjusted value of mineral sales was due to an increase of 20,8% (R3 083,9 million) in non-gold mineral sales. However, this increase was partially counteracted by a decrease of 6,0% (R408,8 million) in gold sales during the three months up to April 2000 compared with the previous three months.

## Notes

### Forthcoming issues Issue Expected release date

June 2000 8 August 2000

**Purpose of the survey** The monthly mining production and sales survey is a country-wide sample survey covering a sample of mining establishments operating in the South African economy. The results of this survey are used to calculate physical 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.

## Additional information

### Explanatory notes

**Introduction 1** Statistics South Africa (Stats SA) publishes monthly information regarding the mining industry covering a sample of mining establishments (branches). This statistical release contains detailed information regarding indices of the physical volume of mining production and the total value of mineral sales according to mining divisions and major groups on a monthly basis.

**2** Data shown in the tables are compiled by Statistics South Africa (Stats SA) on the basis of mining production figures and mineral sales furnished by the Minerals Bureau, Department of Minerals and Energy.

**3** Due to mining production figures being available earlier than mineral sales figures, mining production indices are published one month earlier than mineral sales.

**4** The value of mineral sales is calculated, in general, on a free-on-rail/free-on-board basis.

**5** In order to improve timeliness, some information for the current month may have been estimated due to late response. These estimates will be revised in future statistical release(s) as soon more up-to-date information is available.

**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. Statistics in this publication are presented at SIC division, major group and subgroup level. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment (branch).

**Statistical unit 8** The basic statistical unit for the collection of information is the mining establishment. An establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (cf. paragraph 7).

**Weighting 9** The weights which are used to aggregate minerals to mineral groups and mineral groups to total mining, are based on the value of production derived from detailed information for 1995 supplied by the Minerals Bureau, Department of Minerals and Energy.

**Rebasing 10** In accordance with international practice, the indices have to be rebased every five years to a new base year. The indices in this statistical release have been calculated on the basis of 1995=100. The first results on this basis were published in May 1998. Both actual and seasonally adjusted figures are presented.

**Seasonal adjustment 11** Seasonally adjusted estimates of all items are generated each month, using the X-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. 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 more clearly recognised. Seasonal adjustment does not aim to

remove irregular or non-seasonal influences which may be present in any particular month. 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.

**Reliability of estimates 12** Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.

**Related publications 13** Users may also wish to refer to the following publications which are available from Stats SA -

- Bulletin of Statistics.
- SA Statistics.

**Unpublished statistics 14** In some cases Stats SA can also make available statistics which are not published. The statistics can be made available via: computer printouts or diskette or CD. Generally a charge is made for providing unpublished statistics.

**Rounding-off of figures 15** 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.

## Glossary

**Enterprise** An enterprise (firm) is a legal entity consisting of one or more establishments (branches). The establishments need not necessarily all be mining establishments, but some may be classifiable as other industries of the economy, such as manufacturing, wholesale trade, retail trade, motor trade and construction.

**Establishment** An establishment is defined as an enterprise, or part of an enterprise, that is situated at a single location and in which only a single (non-ancillary) productive activity is carried out or in which the principal productive activity accounts for most of the value added.

**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

**basis** docking charges are involved but no charges are made for the transport by sea.

**Index of physical volume** The index of physical volume of mining production or a production index is a statistical

**of mining production** measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The current base period is 1995. The production in the base period is set at 100.

**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 (SIC) of all Economic Activities, Fifth Edition of January 1993.

**Sales** Sales are the total value of sales and transfers-out of goods mined by the mining establishments and the amounts received for installation, erection or assembly or other services rendered.

**Weight** The weight of a major group is the ratio of the production of a major group to the total production of the mining industry. The weight of a major group reflects the importance of the major group in the total mining industry. The weights change over time due to quality changes and changes in relative prices. New weights need to be calculated from time to time.

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Table 1 - The index of the physical volume of mining production including gold (Base 1995 = 100)

Month	1994	1995	1996	1997	1998*	1999*	2000
Actual indices							
J	99,8	95,0	96,0	93,6	95,0	88,8	89,9*
F	101,9	99,3	98,3	98,8	97,3	94,9	96,0*
M	101,0	101,1	99,1	97,6	99,5	100,5	96,6*
A	99,8	95,9	93,3	96,7	95,7	92,1	91,0*
M	95,6	96,2	97,6	101,9	96,1	100,0	91,0
J	101,5	105,1	100,8	105,7	104,2	99,1	
J	100,0	100,2	98,6	100,6	97,6	98,2	
A	104,4	104,4	99,5	103,1	99,8	94,6	
S	103,6	104,6	98,8	102,6	99,9	100,2	
O	100,1	98,9	98,7	100,6	104,7	100,0	
N	104,3	100,1	100,3	104,4	102,4	102,5	
D	98,2	99,2	98,9	98,6	98,9	96,5	
Year	100,9	100,0	98,3	100,4	99,3	97,3	
Seasonally adjusted indices							
J	104,8	99,4	100,9	98,9	101,0	94,7	96,1
F	102,6	99,8	99,2	100,3	99,1	96,9	98,0
M	101,3	100,7	98,4	96,6	98,2	99,1	95,3
A	102,9	99,0	96,9	100,6	99,5	95,6	94,4
M	97,2	97,4	98,8	103,3	97,3	101,4	92,4
J	99,9	102,2	97,4	101,3	99,7	94,7	
J	100,0	100,0	98,6	100,6	97,6	98,2	
A	101,7	101,6	97,2	101,2	98,5	93,6	
S	102,0	102,2	96,6	100,2	97,7	98,0	
O	100,0	98,4	98,1	99,7	103,5	98,7	
N	102,7	98,0	98,0	101,7	99,7	99,6	
D	100,2	100,3	99,5	98,9	99,1	96,8	

Table 2 - The index of the physical volume of mining production excluding gold (Base 1995=100)

Month	1994	1995	1996	1997	1998*	1999*	2000
Actual indices							
J	92,3	1995	98,4	99,8	100,4	96,2	100,3*

F	95,8	97,0	97,0	103,3	103,8	102,0	101,7*
M	91,7	98,9	100,1	97,7	107,8	104,8	103,7*
A	93,0	95,4	95,3	101,8	104,7	97,1	99,2*
M	89,8	99,1	100,0	107,0	105,6	111,3	101,7
J	95,0	108,1	104,9	114,4	112,9	106,5	
J	94,3	100,1	103,6	107,5	105,5	109,8	
A	99,3	105,4	102,3	107,7	106,5	103,6	
S	96,5	106,1	104,0	104,7	105,8	106,9	
O	93,8	96,9	101,5	105,6	117,6	111,1	
N	99,9	100,2	102,1	106,0	111,0	114,2	
D	91,8	98,8	99,7	100,4	102,3	102,7	
Year	94,4	100,0	100,7	104,7	107,0	105,5	
Seasonally adjusted indices							
J	95,8	97,5	102,0	103,6	104,6	100,6	105,1
F	96,4	97,9	98,3	105,2	106,0	104,3	104,0
M	92,6	99,4	100,2	97,5	107,2	104,2	103,2
A	95,2	98,0	98,4	105,2	108,3	100,2	102,3
M	90,5	99,8	100,5	107,3	105,6	111,4	101,8
J	91,3	103,1	99,3	107,7	106,1	100,0	
J	92,7	98,5	102,1	105,9	103,7	107,9	
A	95,3	101,8	99,8	106,1	105,9	103,3	
S	94,8	104,4	102,9	103,9	105,3	106,6	
O	94,4	97,3	101,2	104,5	115,8	109,1	
N	98,7	99,0	100,7	104,3	108,8	111,7	
D	95,8	102,7	103,4	104,0	106,0	106,6	

\* Revised

**Table 3 - Indices of physical volume of mining production according to major divisions, major groups and minerals (Base 1995=100)**

Major divisions, major groups and minerals	Weights	Actual indices					Seasonally adjusted indices		
		1999*	2000		1999	2000		1999	
			May	Apr. *		May	May		Apr.
Total production, gold included	100,0	97,3	91,0	91,0	100,0	92,4	94,4	101,4	
Total production, gold excluded	57,5	105,5	101,7	99,2	111,3	101,8	102,3	111,4	
Gold	42,5	86,1	76,5	80,0	84,7	79,7	83,8	87,9	
Iron ore	3,0	92,3	106,1	104,9	102,5	105,0	106,7	100,9	
Chrome	1,1	134,0	143,8	126,9	145,2	139,2	137,9	140,8	
Copper	3,1	89,2	71,9	90,5	137,7	80,4	83,5	153,9	
Manganese ore	1,3	100,4	120,1	124,6	104,3	125,1	133,4	108,6	

Platinum	11,9	118,2	107,3	105,9	124,9	102,6	109,0	119,9
Nickel	1,5	121,5	113,7	108,1	130,6	115,0	115,1	131,6
Other metallic minerals	2,4	96,8	108,2	103,5	99,2	105,9	106,0	96,7
Diamonds	4,4	98,3	90,6	97,4	100,5	93,4	97,4	103,6
Coal	23,2	108,0	104,4	97,2	108,4	103,9	102,9	107,7
Building materials	3,5	82,9	80,6	78,4	86,5	76,8	74,9	82,5
Other non-metallic minerals	2,1	88,7	86,1	85,1	90,9	83,0	81,4	87,4

\* Revised

**Table 4 - Total value of mineral sales including gold (R Million)**

Month	1994	1995	1996	1997	1998*	1999*	2000
Actual values							
J	4 428,8	4 669,2	5 165,8	6 447,8	5 577,2	6 098,6	6 274,0*
F	3 619,4	4 234,8	4 604,2	5 159,4	5 316,4	5 758,9	7 162,9*
M	4 201,9	4 700,0	5 002,8	4 936,6	5 547,6	6 446,6	9 011,2*
A	4 001,4	4 413,4	5 380,9	5 576,8	5 662,1	5 700,9	7 571,5
M	4 325,1	4 704,9	5 345,1	5 309,0	5 439,6	5 697,7	
J	4 115,8	4 525,2	4 994,8	5 445,9	6 018,8	6 389,3	
J	4 669,5	4 777,7	5 795,5	5 780,3	6 669,3	5 984,5	
A	4 415,7	4 667,3	5 478,0	5 546,2	6 318,5	6 826,2	
S	4 526,6	4 840,0	5 124,5	5 568,2	6 066,8	6 557,1	
O	4 343,9	5 133,4	6 227,7	6 026,1	6 446,5	6 044,7	
N	4 153,1	4 538,8	5 117,2	5 130,8	5 995,1	7 564,0	
D	3 910,4	3 805,3	4 868,2	5 386,9	6 343,0	7 362,7	
Year	50 711,6	55 010,0	63 104,7	66 314,0	71 400,9	76 431,2	
Seasonally adjusted values							
J	4 288,2	4 538,5	5 029,3	6 315,0	5 496,2	6 024,2	6 210,8
F	4 036,6	4 641,6	4 976,4	5 486,4	5 609,5	6 076,6	7 548,1
M	4 190,9	4 676,1	4 972,4	4 897,8	5 490,2	6 373,2	8 943,6
A	3 941,6	4 340,4	5 311,7	5 577,1	5 724,1	5 827,4	7 751,2
M	4 321,9	4 699,0	5 372,3	5 398,4	5 603,5	5 919,3	
J	4 258,9	4 626,7	5 060,8	5 434,2	5 949,1	6 287,2	
J	4 250,0	4 406,6	5 402,4	5 434,9	6 344,7	5 716,1	
A	4 214,5	4 513,9	5 349,5	5 450,3	6 225,0	6 719,0	
S	4 412,0	4 755,3	5 074,0	5 556,9	6 069,2	6 564,7	
O	4 080,4	4 829,8	5 852,8	5 643,1	6 060,7	5 690,1	
N	4 441,8	4 844,8	5 454,4	5 433,2	6 329,1	7 968,6	
D	4 338,4	4 094,3	5 137,9	5 557,8	6 432,0	7 388,4	

**Table 5 - Total value of mineral sales excluding gold (R Million)**

Month	1994	1995	1996	1997	1998*	1999*	2000
Actual values							
J	2 106,9	2 612,9	2 764,4	3 394,4	3 737,4	4 033,7	4 506,8*
F	1 965,1	2 454,0	2 613,0	3 280,4	3 579,7	3 796,9	5 011,0*
M	2 095,5	2 678,6	3 031,1	3 172,6	3 713,2	3 940,2	6 741,0*
A	2 165,1	2 390,1	2 828,6	3 441,4	3 779,7	3 796,8	5 827,0
M	2 118,6	2 716,5	3 078,3	3 245,0	3 683,6	3 821,5	
J	2 239,9	2 751,4	3 104,1	3 663,5	4 123,1	4 411,3	
J	2 266,1	2 727,9	3 229,8	3 429,2	4 285,8	4 050,1	
A	2 319,0	2 577,6	3 066,1	3 555,0	4 122,3	4 929,3	
S	2 333,5	2 695,9	3 088,7	3 573,9	3 857,5	4 489,7	
O	2 076,3	2 635,1	3 539,1	3 566,2	4 175,6	3 986,7	
N	2 029,1	2 819,6	3 130,9	3 332,1	3 955,3	5 029,1	
D	2 043,2	2 615,1	3 148,1	3 583,1	4 092,9	5 155,5	
Year	25 758,3	31 674,7	36 622,2	41 236,8	47 106,1	51 440,8	
Seasonally adjusted values							
J	2 137,1	2 617,0	2 741,0	3 351,0	3 674,7	3 956,3	4 418,6
F	2 077,6	2 577,9	2 720,2	3 410,5	3 724,0	3 970,0	5 243,9
M	2 047,7	2 621,5	2 973,4	3 120,3	3 674,4	3 926,6	6 749,7
A	2 134,9	2 365,3	2 813,6	3 450,4	3 803,4	3 827,5	5 884,9
M	2 114,1	2 705,0	3 082,7	3 283,7	3 775,7	3 952,8	
J	2 106,4	2 598,3	2 936,9	3 468,4	3 888,2	4 150,6	
J	2 199,0	2 632,4	3 131,6	3 331,8	4 199,9	3 980,6	
A	2 239,6	2 524,7	3 029,6	3 517,7	4 076,0	4 853,0	
S	2 255,1	2 640,7	3 061,2	3 582,3	3 881,8	4 520,5	
O	2 127,7	2 692,0	3 571,4	3 559,0	4 134,9	3 935,1	
N	2 148,4	2 984,4	3 302,4	3 492,4	4 134,3	5 259,8	
D	2 180,0	2 751,2	3 248,2	3 632,5	4 084,0	5 116,2	

\* Revised

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**Table 6 - Total value of mineral sales according to major divisions, major groups and minerals  
(R million)**

Major divisions, major groups and minerals	Actual value				Seasonally adjusted value		
	1999*	2000		1999	2000		1999
		Apr.	Mar.	Apr.	Apr.	Mar.	Apr.
Total sales, gold included	76 431,2	7 571,5	9 011,2	5 700,9	7 751,2	8 943,6	5 827,4
Total sales, gold excluded	51 440,8	5 827,0	6 741,0	3 796,8	5 884,9	6 749,7	3 827,5

Gold	24 990,3	1 744,5	2 270,2	1 904,1	1 866,3	2 193,9	1 999,9
Iron ore	2 205,9	285,1	243,2	191,2	258,2	250,5	175,4
Chrome	999,9	74,3	87,0	77,4	75,2	91,2	77,7
Copper	1 388,3	128,6	122,1	99,2	138,1	111,3	106,3
Manganese ore	934,6	82,5	118,4	111,7	71,9	98,4	99,8
Platinum	14 903,1	1 935,8	2 271,5	1 122,0	..	..	..
Nickel	1 147,8	147,3	161,3	81,3	147,7	172,1	81,4
Other metallic minerals	2 411,1	170,5	183,0	174,0	198,6	168,3	201,3
Coal	17 622,0	1 553,5	1 562,6	1 349,8	1 633,0	1 558,4	1 424,6
Building materials	2 509,7	202,2	220,6	228,8	198,6	209,7	225,4
- Granite or norite	627,7	54,1	56,6	71,3	51,3	58,8	67,9
- Lime and limestone	883,3	72,9	81,1	71,4	74,1	78,9	72,5
- Other building materials	998,7	75,2	82,9	86,0	76,8	75,9	87,6
Other non-metallic minerals	7 318,5	1 247,2	1 771,3	361,4	1 375,3	2 443,5	389,8

\* Revised