

**P2041**

**Mining: production and sales**

September 2002

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## Key figures regarding mining production as at the end of September 2002

### Actual estimates

	September 2002	% change between September 2001 and September 2002	% change between July 2001 to September 2001 and July 2002 to September 2002	% change between January 2001 to September 2001 and January 2002 to September 2002
Index of the physical volume of mining production				
Gold	78,5	+0,9%	+1,8%	+0,8%
Non-gold minerals	109,2	+2,4%	+2,3%	-1,6%
<b>Total</b>	<b>96,1</b>	<b>+1,8%</b>	<b>+2,1%</b>	<b>-0,8%</b>

### Seasonally adjusted estimates

	September 2002	% change between August 2002 and September 2002	% change between April 2002 to June 2002 and July 2002 to September 2002
Index of the physical volume of mining production			
Gold	74,6	-1,6%	-1,7%
Non-gold minerals	109,7	-2,1%	+2,3%
<b>Total</b>	<b>94,8</b>	<b>-1,9%</b>	<b>+1,0%</b>

## Key findings regarding mining production as at the end of September 2002

### Mining production increases

*Total mining production for the third quarter of 2002 after seasonal adjustment reflected an increase of 1,0% compared with the second quarter of 2002. However, the total mining production for the first nine months of 2002 decreased by 0,8% compared with the first nine months of 2001.*

The increase of 1,0% after seasonal adjustment in the total mining production was due to a seasonally adjusted increase of 2,3% in the production of non-gold minerals during the third quarter of 2002 compared with the second quarter of 2002. The major contributors to the seasonally adjusted increase of 2,3% in the production of non-gold minerals were platinum, coal and diamond mines.

The decrease of 0,8% in the total mining production for the first nine months of 2002 compared with the first nine months of 2001 was due to a decrease of 1,6% in the production of non-gold minerals during the above-mentioned period.

## Key findings regarding mineral sales as at the end of August 2002

### Mineral sales decrease

*The seasonally adjusted value of mineral sales at current prices for the three months ended August 2002 reflected a decrease of 5,6% compared with the previous three months. However, the actual value of mineral sales at current prices for the three months ended August 2002 reflected an increase of 10,1% compared with the three months ended August 2001.*

The decrease of 5,6% in the seasonally adjusted value of mineral sales for the three months ended August 2002 compared with the previous three months can mainly be attributed to a decrease of 9,8% (+R1 120,2 million) in sales of gold and 3,6% (+R848,4 million) in non-gold mineral sales.

The 10,1% increase in the actual value of mineral sales at current prices for the three months ended August 2002 compared with the three months ended August 2001 was mainly due to an increase of 40,3% (+R2 983,1 million) in sales of gold and 0,3% (+R75,8 million) in non-gold mineral sales. The increase of 0,3% in non-gold mineral sales was mainly due to increases of 47,7% (+R172,6 million) in sales of copper, 41,2% (+R405,2 million) in sales of iron ore, 39,1% (+R184,2 million) in sales of nickel and 37,4% (+R114,1 million) in sales of manganese ore.

**Table A - Contribution by the different mining divisions to the total mineral sales.**

Mining division	Percentage contribution to mineral sales during June 2001 to August 2001	Quarterly percentage change between June 2001 to August 2001 and June 2002 to August 2002	Contribution (percentage points) to the percentage change in the sales 1/	Difference in total mineral sales between June 2001 to August 2001 and June 2002 to August 2002 R million
<b>Gold</b>	<b>24,5</b>	<b>40,3</b>	<b>9,8</b>	<b>2 983,1</b>
<b>Non-gold minerals</b>				
Iron ore	3,3	41,2	1,3	405,2
Copper	1,2	47,7	0,6	172,6
Manganese ore	1,0	37,4	0,4	114,1
Chromium	0,9	9,7	0,1	25,2
Platinum	29,6	-4,1	-1,2	-368,8
Nickel	1,6	39,1	0,6	184,2
Other metallic minerals	2,7	31,9	0,8	256,6
Coal	23,4	-2,7	-0,6	- 188,7
Building materials	2,3	2,7	0,1	20,6
Other non-metallic	9,5	-18,9	-1,8	-545,2
<b>Total non-gold minerals</b>	<b>75,5</b>	<b>0,3</b>	<b>0,3</b>	<b>75,8</b>
<b>Total minerals</b>	<b>100,0</b>	<b>10,1</b>	<b>10,1</b>	<b>3 058,9</b>

1/ The contribution to the percentage change in sales is calculated by multiplying the quarterly percentage change of each mineral with the percentage contribution to total mineral sales during June 2001 to August 2001, divided by 100.

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## Notes

<b>Forthcoming issues</b>	<b>Issue</b>	<b>Expected date of publication</b>
	October 2002	10 December 2002
	November 2002	14 January 2003
	December 2002	04 February 2003
	January 2003	11 March 2003
<b>Purpose of the survey</b>	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 as 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.

<b>Reliability of estimates</b>	12	Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.
<b>Related publications</b>	13	Users may also wish to refer to the following publications which are available from Stats SA - <ul style="list-style-type: none"><li>• Bulletin of Statistics.</li><li>• SA Statistics.</li></ul>
<b>Unpublished statistics</b>	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.
<b>Rounding-off of figures</b>	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

<b>Enterprise</b>	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.
<b>Establishment</b>	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.
<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 basis</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 the transport by sea.
<b>Index of physical volume of mining production</b>	The index of physical volume of mining production or a production index is a statistical 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.
<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 System of National Accounts (SNA) in the same way as in the Standard Industrial Classification (SIC) of all Economic Activities, Fifth Edition of May 1993.
<b>Sales</b>	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.
<b>Weight</b>	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.

## **For more information**

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English only.

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

Month	1996	1997	1998	1999	2000	2001*	2002
Actual indices							
J	96,0	93,6	95,0	88,8	89,9	90,5	87,1*
F	98,3	98,8	97,3	94,9	96,0	93,1	90,4*
M	99,1	97,6	99,5	100,5	97,4	97,0	93,0*
A	93,3	96,7	95,7	92,2	92,1	93,2	92,2*
M	97,6	101,9	96,1	100,1	92,5	96,8	96,9*
J	100,8	105,7	104,3	99,4	101,7	100,7	98,4*
J	98,6	100,6	97,6	98,2	94,6	91,8	96,9*
A	99,5	103,1	99,8	94,3	100,4	100,0	99,3*
S	98,8	102,6	99,9	100,1	100,9	94,4	96,1
O	98,7	100,6	104,7	99,9	97,8	97,7	
N	100,3	104,4	102,4	102,6	103,2	95,0	
D	98,9	98,6	98,9	96,7	94,2	90,4	
Year	98,3	100,4	99,3	97,3	96,7	95,1	
Seasonally adjusted indices							
J	101,0	99,4	101,8	95,6	97,3	98,3	94,8
F	99,6	100,5	99,7	97,7	99,3	96,6	94,1
M	97,8	96,3	98,4	99,6	96,7	96,6	92,6
A	96,8	100,4	99,4	95,7	95,4	96,4	95,5
M	98,3	102,7	96,8	101,1	92,9	96,9	97,0
J	98,5	102,8	100,8	95,6	97,6	96,5	94,3
J	98,8	101,0	98,1	99,5	95,6	92,9	98,2
A	96,9	100,6	97,5	92,3	97,9	97,5	96,6
S	95,7	99,4	97,1	97,7	98,9	92,7	94,8
O	97,7	98,8	102,1	96,6	94,2	93,6	
N	97,7	101,2	99,1	99,0	99,5	91,7	
D	100,5	99,5	99,5	97,0	95,4	90,8	

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

Month	1996	1997	1998	1999	2000	2001*	2002
Actual indices							
J	98,4	99,8	100,4	96,2	100,2	105,4	98,5*
F	97,0	103,3	103,8	102,0	101,5	106,2	102,8*
M	100,1	97,7	107,8	104,7	104,9	110,3	104,8*
A	95,3	101,8	104,7	97,2	100,8	107,9	104,2*
M	100,0	107,0	105,6	111,6	104,2	114,6	113,4*
J	104,9	114,4	113,0	106,9	113,2	116,5	113,4*
J	103,6	107,5	105,5	109,9	107,0	103,0	113,7*
A	102,3	107,7	106,4	103,1	111,9	120,4	114,8*
S	104,0	104,7	105,8	106,8	112,2	106,6	109,2
O	101,5	105,6	117,6	111,0	110,4	115,0	
N	102,1	106,0	110,9	114,4	118,8	110,1	
D	99,7	100,4	102,2	103,2	104,0	99,1	
Year	100,7	104,7	107,0	105,6	107,4	109,6	
Seasonally adjusted indices							
J	102,1	104,5	105,8	102,2	107,1	113,2	106,0
F	99,0	105,6	106,9	105,6	105,7	110,9	107,8
M	99,1	96,8	107,4	104,8	105,5	111,1	105,7
A	98,2	105,0	108,3	100,8	104,5	111,9	108,3
M	99,6	106,4	104,7	110,8	102,6	112,7	111,2
J	101,4	110,4	108,6	102,4	108,5	111,4	108,5
J	102,5	106,4	104,5	109,9	106,7	103,0	113,9
A	99,3	105,4	104,3	101,4	109,6	117,8	112,0
S	101,4	102,6	104,4	106,1	112,0	106,6	109,7
O	100,4	103,0	113,3	105,4	104,2	107,9	
N	100,1	103,2	107,5	110,0	113,8	105,6	
D	105,0	104,8	106,2	106,6	108,7	102,3	

\* Revised



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

Minerals	Weights	Actual indices				Seasonally adjusted indices		
		2001	2002		2001	2002		2001
			Sep.	Aug.*	Sep.	Sep.	Aug.	Sep.
Total, gold included	100,0	95,1	96,1	99,3	94,4	94,8	96,6	92,7
Total, gold excluded	57,5	109,6	109,2	114,8	106,6	109,7	112,0	106,6
Gold	42,5	75,4	78,5	78,4	77,8	74,6	75,8	73,8
Iron ore	3,0	108,8	105,9	116,2	97,9	118,8	115,6	109,2
Chrome	1,1	108,2	140,7	128,0	101,3	132,3	125,3	95,1
Copper	3,1	87,7	70,2	83,6	108,0	63,5	82,8	97,2
Manganese ore	1,3	107,5	95,3	95,6	103,8	95,8	97,3	103,6
Platinum	11,9	124,9	135,4	142,5	118,4	140,9	140,5	123,4
Nickel	1,5	122,3	120,0	149,1	125,1	115,0	144,3	119,7
Other metallic minerals	2,4	99,4	92,9	87,8	92,3	94,2	85,2	93,3
Diamonds	4,4	107,1	111,8	104,1	96,7	113,7	105,8	97,9
Coal	23,2	107,6	101,1	110,4	105,5	100,0	106,1	103,9
Building materials	3,5	111,3	118,9	103,4	111,8	110,9	100,6	104,9
Other non-metallic minerals	2,1	86,5	94,3	102,6	83,4	95,3	94,7	84,8

\* Revised

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

Month	1996	1997	1998	1999	2000	2001*	2002
Actual values							
J	5 165,8	6 447,8	5 577,2	6 098,8	6 244,1	9 232,0	11 383,4*
F	4 604,2	5 159,4	5 316,4	5 763,6	7 115,7	9 707,7	10 548,2*
M	5 002,8	4 936,6	5 547,6	6 445,1	8 958,5	8 120,1	11 583,8*
A	5 380,9	5 576,8	5 662,1	5 706,5	7 521,3	8 542,7	11 124,6*
M	5 345,1	5 309,0	5 433,1	5 702,9	8 222,7	9 664,7	12 158,4*
J	4 994,8	5 445,9	6 017,2	6 391,3	8 222,5	10 621,3	11 515,3*
J	5 795,5	5 780,3	6 669,1	5 996,1	7 640,3	10 148,0	10 698,4*
A	5 478,0	5 546,2	6 318,5	6 852,9	8 223,4	9 478,3	11 092,8
S	5 124,5	5 568,2	6 066,8	6 548,3	8 568,9	8 706,0	
O	6 227,7	6 026,1	6 446,0	6 005,9	8 317,6	9 987,3	
N	5 117,2	5 130,8	5 994,9	7 573,0	9 828,5	9 611,4	
D	4 868,2	5 386,9	6 343,0	7 346,9	9 474,9	11 344,1	
Year	63 104,7	66 314,0	71 391,9	76 431,3	98 338,4	115 163,6	
Seasonally adjusted values							
J	4 988,0	6 173,5	6 027,9	5 957,1	6 129,9	9 063,3	11 249,0
F	4 895,0	5 374,1	5 948,2	5 893,3	7 201,1	9 913,2	10 789,7
M	5 009,2	4 929,4	5 584,0	6 471,7	9 573,2	8 014,9	11 415,3
A	5 401,3	5 616,8	6 552,6	5 932,2	7 741,4	8 916,3	11 848,5
M	5 362,4	5 360,6	5 529,2	5 795,4	8 166,7	9 569,6	11 945,8
J	5 086,4	5 487,9	5 937,7	6 252,7	7 888,9	10 195,8	11 041,8
J	5 430,0	5 569,7	6 479,9	5 926,5	7 617,9	10 740,6	10 953,1
A	5 383,7	5 477,6	6 283,5	6 852,9	8 311,3	9 530,1	11 246,1
S	5 096,1	5 640,0	6 141,5	6 845,3	8 698,0	8 831,0	
O	5 840,1	5 707,0	6 306,5	6 000,3	8 532,1	10 281,6	
N	5 363,0	5 262,6	6 081,0	7 586,4	9 833,7	9 584,5	
D	5 142,4	5 527,5	6 310,9	7 118,5	8 983,7	10 780,7	

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

Month	1996	1997	1998	1999	2000	2001*	2002
Actual values							
J	2 764,4	3 394,4	3 737,4	4 033,9	4 476,9	7 172,4	7 998,7*
F	2 613,0	3 280,4	3 579,7	3 801,6	4 963,8	7 716,8	7 283,5*
M	3 031,1	3 172,6	3 713,2	3 938,7	6 688,4	5 897,2	8 055,5*
A	2 828,6	3 441,4	3 779,7	3 802,4	5 790,2	6 736,4	7 411,6*
M	3 078,3	3 245,0	3 677,1	3 826,7	6 166,9	7 128,5	8 604,2*
J	3 104,1	3 663,5	4 121,5	4 413,3	5 908,5	8 226,4	7 916,0*
J	3 229,8	3 429,2	4 285,6	4 061,6	5 700,6	7 781,2	7 256,3*
A	3 066,1	3 555,0	4 122,2	4 956,0	5 892,6	6 834,4	7 745,5
S	3 088,7	3 573,9	3 857,5	4 480,8	6 479,6	6 213,8	
O	3 539,1	3 566,2	4 175,0	3 947,8	6 047,1	6 959,1	
N	3 130,9	3 332,1	3 955,1	5 038,1	7 529,4	6 936,9	
D	3 148,1	3 583,1	4 092,9	5 139,7	7 422,4	8 548,7	
Year	36 622,2	41 236,8	47 096,9	51 440,6	73 066,4	86 151,8	
Seasonally adjusted values							
J	2 704,6	3 224,2	4 219,1	3 917,3	4 379,3	7 038,6	7 938,4
F	2 632,2	3 299,8	4 073,1	3 818,5	4 959,0	7 865,7	7 448,6
M	2 997,2	3 134,5	3 746,1	4 001,6	7 375,7	5 877,2	8 036,4
A	2 887,6	3 479,8	4 607,1	3 874,8	5 793,4	6 827,8	7 484,3
M	3 069,9	3 240,0	3 701,5	3 835,0	6 030,0	6 954,7	8 305,7
J	2 956,0	3 538,2	3 934,7	4 236,6	5 602,2	7 871,1	7 573,3
J	3 146,3	3 428,4	4 252,5	4 067,8	5 695,0	8 336,3	7 406,2
A	3 055,0	3 545,3	4 150,2	5 010,0	6 043,1	6 960,9	7 998,5
S	3 077,6	3 658,1	3 940,5	4 782,2	6 617,1	6 348,2	
O	3 534,6	3 566,3	4 294,7	4 130,7	6 436,4	7 458,5	
N	3 215,5	3 357,4	3 963,9	5 023,4	7 533,0	6 928,2	
D	3 330,3	3 680,1	4 042,9	4 916,0	6 936,6	7 995,9	

\* Revised

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

Minerals	Actual value					Seasonally adjusted value		
	2001	2002		2001	2002		2001	
		Aug.	Jul.*		Aug.	Aug.		Jul.
Total, gold included	115 163,6	11 092,8	10 698,4	9 478,3	11 246,1	10 953,1	9 530,1	
Total, gold excluded	86 151,8	7 745,5	7 256,3	6 834,4	7 998,5	7 406,2	6 960,9	
Gold	29 011,7	3 347,3	3 442,1	2 643,9	3 247,6	3 546,9	2 569,2	
Iron ore	4 128,9	431,1	469,7	381,5	440,3	491,5	386,4	
Chrome	1 002,3	96,5	111,4	89,4	88,3	118,0	82,6	
Copper	1 927,2	208,0	163,1	150,9	222,5	208,0	160,3	
Manganese ore	1 301,5	138,5	116,6	72,8	161,4	138,7	84,2	
Platinum	33 370,8	2 606,9	3 145,4	2 179,4	2 998,2	2 736,3	2 489,7	
Nickel	1 809,6	257,6	222,6	141,4	265,1	239,1	144,5	
Other metallic minerals	3 276,2	427,4	293,9	262,8	448,3	306,3	272,9	
Coal	25 859,7	2 445,5	2 075,5	2 514,0	2 250,6	2 209,6	2 319,4	
Building materials	2 850,2	255,9	278,3	262,6	240,8	277,4	245,9	
- Granite or norite	717,0	52,5	72,8	78,1	45,2	81,0	68,5	
- Lime and limestone	914,6	92,3	92,5	81,3	87,7	89,0	77,0	
- Other building materials	1 218,3	111,1	113,1	103,1	107,9	107,4	100,4	
Other non-metallic minerals	10 625,4	878,2	379,8	779,7	883,0	681,3	775,0	

\* Revised