

# **Mining: Production and sales (preliminary) September 2004**

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**Key figures regarding mining production as at the end of September 2004**

**Actual estimates**

	<b>September 2004</b>	<b>% change between September 2003 and September 2004</b>	<b>% change between July 2003 to September 2003 and July 2004 to September 2004</b>	<b>% change between January 2003 to September 2003 and January 2004 to September 2004</b>
Index of the physical volume of mining production (2000=100)				
Gold	85,6	-5,3%	-4,2%	-5,1%
Non-gold minerals	129,1	+5,0%	+8,1%	+9,4%
<b>Total</b>	<b>117,9</b>	<b>+2,9%</b>	<b>+5,6%</b>	<b>+6,3%</b>

**Seasonally adjusted estimates**

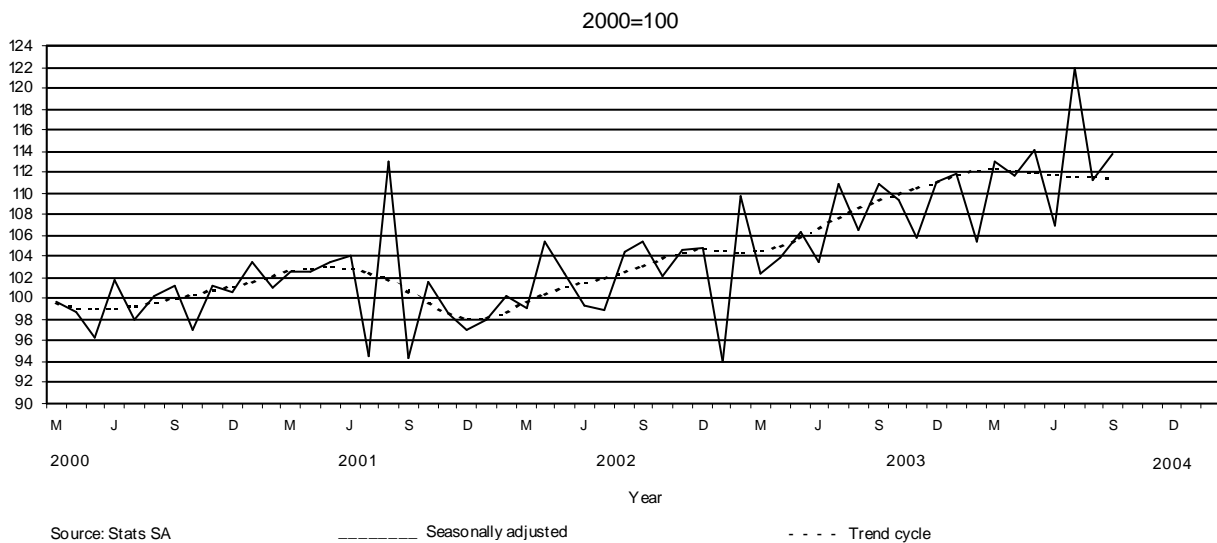
	<b>September 2004</b>	<b>% change between August 2004 and September 2004</b>	<b>% change between April 2004 to June 2004 and July 2004 to September 2004</b>
Index of the physical volume of mining production (2000=100)			
Gold	81,1	-2,3%	-1,6%
Non-gold minerals	125,1	+3,5%	+5,7%
<b>Total</b>	<b>113,8</b>	<b>+2,3%</b>	<b>+4,3%</b>

**Key findings regarding mining production as at the end of September 2004**

**Mining production increases**

The total mining production for the third quarter of 2004, after seasonal adjustment, increased by 4,3% compared with the second quarter of 2004. This increase was due to a seasonally adjusted increase of 5,7% in the production of non-gold minerals during the third quarter of 2004 compared with the second quarter of 2004. However, this increase was slightly counteracted by a seasonally adjusted decrease of -1,6% in production of gold. The seasonally adjusted increase of 5,7% in the production of non-gold minerals was mainly due to an increase in the production of PGM's (+2,1 percentage points), diamonds (+1,3 percentage points), other non-metals (+0,8 of a percentage point) and other metals (+0,2 of a percentage point).

**Figure 1 - Indices of physical volume of total mining production including gold**



**Key figures regarding mineral sales as at the end of August 2004**

**Actual estimates**

	<b>August 2004</b> R million	<b>% change between August 2003 and August 2004</b>	<b>% change between June 2003 to August 2003 and June 2004 to August 2004</b>	<b>% change between January 2003 to August 2003 and January 2004 to August 2004</b>
Mineral sales				
Gold	2 319,9	-9,4%	-12,9%	-11,0%
Non-gold minerals	7 220,3	+2,4%	+10,1%	+8,3%
<b>Total</b>	<b>9 540,2</b>	<b>-0,7%</b>	<b>+3,6%</b>	<b>+2,8%</b>

**Seasonally adjusted estimates**

	<b>August 2004</b> R million	<b>% change between July 2004 and August 2004</b>	<b>% change between March 2004 to May 2004 and June 2004 to August 2004</b>
Mineral sales			
Gold	2 283,0	+3,7%	-9,8%
Non-gold minerals	7 412,1	-8,2%	+0,6%
<b>Total</b>	<b>9 695,1</b>	<b>-5,7%</b>	<b>-2,0%</b>

## Key findings regarding mineral sales as at the end of August 2004

### Mineral sales decrease

*The seasonally adjusted value of mineral sales at current prices for the three months ended August 2004 reflected a decrease of 2,0% compared with the previous three months. However, the actual value of mineral sales at current prices for the three months ended August 2004 increased by 3,6% compared with the three months ended August 2003.*

The decrease of 2,0% in the seasonally adjusted value of mineral sales for the three months ended August 2004 compared with the previous three months can be attributed to a decrease of 9,8% (-R762,1 million) in sales of gold during the same period. However, this decrease was counteracted by an increase of 0,6% (+R144,2 million) in sales of non-gold minerals during the same period.

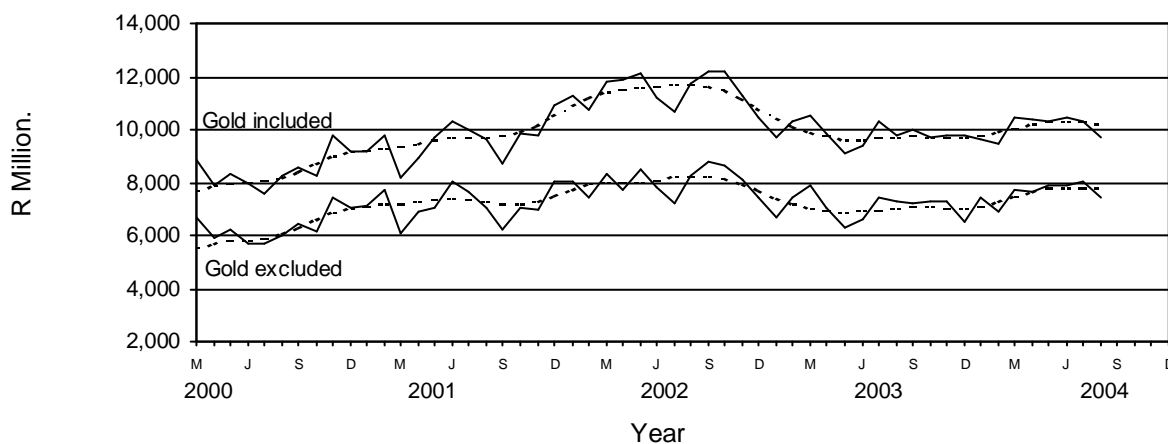
The major contributor to the increase of 3,6% in the actual value of mineral sales at current prices for the three months ended August 2004 compared with the three months ended August 2003 was PGM's (+5,1 percentage points or +R1 517,9 million). However, this increase was counteracted by a decrease in sales of gold (-3,6 percentage points or -R1 077,3 million) (see table A).

**Table A - Contribution of the mining divisions to the total value of mineral sales**

<b>Mining division</b>	<b>Percentage contribution to total mineral sales during June 2003 to August 2003</b>	<b>Percentage change between June 2003 to August 2003 and June 2004 to August 2004</b>	<b>Contribution (percentage points) to the percentage change in the total value of mineral sales 1/</b>	<b>Difference in sales of mining divisions between June 2003 to August 2003 and June 2004 to August 2004  R million</b>
<b>Gold</b>	<b>28,0</b>	<b>-12,9</b>	<b>-3,6</b>	<b>-1 077,3</b>
<b>Non-gold minerals</b>				
Iron ore	3,6	6,2	0,2	66,3
Copper	1,3	39,0	0,5	155,9
Manganese ore	1,3	3,7	0,1	14,9
Chromium	0,9	47,3	0,4	130,4
PGM's	24,3	21,0	5,1	1 517,9
Nickel	2,4	26,0	0,6	188,2
Other metallic minerals	2,8	-20,5	-0,6	-169,7
Coal	22,7	3,9	0,9	263,8
Building materials	3,0	9,3	0,3	83,6
Other non-metallic minerals	9,6	-3,3	-0,3	-93,5
<b>Total non-gold minerals</b>	<b>72,0</b>	<b>10,1</b>	<b>7,2</b>	<b>2 157,8</b>
<b>Total minerals</b>	<b>100,0</b>	<b>3,6</b>	<b>3,6</b>	<b>1 080,5</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 2003 to August 2003, divided by 100.

**Figure 2 - Total value of mineral sales including gold**



Source: Stats SA

—— Seasonally adjusted      - - - - Trend cycle

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## Contents

<b>Notes</b> .....	6
<b>Tables</b>	
Table 1 Index of the physical volume of mining production including gold (Base 2000=100) .....	7
Table 2 Seasonally adjusted indices of mining production including gold (Base 2000=100) .....	7
Table 3 Index of the physical volume of mining production excluding gold (Base 2000=100) .....	8
Table 4 Seasonally adjusted indices of mining production excluding gold (Base 2000=100) .....	8
Table 5 Indices of physical volume of mining production according to mining divisions, mineral groups and minerals (Base 2000=100) .....	9
Table 6 Total value of mineral sales including gold (R million) .....	10
Table 7 Seasonally adjusted value of mineral sales including gold (R million) .....	10
Table 8 Total value of mineral sales excluding gold (R million) .....	11
Table 9 Seasonally adjusted value of mineral sales excluding gold (R million) .....	11
Table 10 Total value of mineral sales according to mining divisions, mineral groups and minerals (R million) .....	12
<b>Explanatory notes</b> .....	13
<b>Glossary</b> .....	15
<b>General information</b> .....	16

## Notes

<b>Forthcoming issue</b>	<b>Issue</b>	<b>Expected date of publication</b>
	October 2004	7 December 2004
<b>Purpose of the survey</b>	The monthly mining production and sales survey is a survey conducted by the Minerals Bureau, covering all 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.	

**Table 1 - Index of the physical volume of mining production including gold (Base 2000=100)**

<b>Month</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003*</b>	<b>2004*</b>
January	92,6	93,8	95,0	89,0	85,1	100,4
February	99,0	99,3	96,8	94,2	101,7	97,2
March	104,8	100,0	102,3	99,1	101,8	112,6
April	96,2	95,0	98,9	102,0	101,0	108,7
May	104,5	95,7	103,6	102,9	107,1	115,3
June	103,7	106,8	108,4	104,1	108,6	111,9
July	102,5	96,9	93,5	99,0	110,7	121,2
August	98,4	102,1	115,2	107,2	109,1	113,9
September	104,4	104,9	98,4	108,1	114,6	117,9
October	104,2	100,0	105,1	106,7	114,5	
November	107,0	105,5	102,6	107,5	108,4	
December	100,9	100,2	97,2	107,0	113,3	
<b>Year</b>	<b>101,5</b>	<b>100,0</b>	<b>101,4</b>	<b>102,2</b>	<b>106,3</b>	

**Table 2 - Seasonally adjusted indices of mining production including gold (Base 2000=100)**

<b>Month</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
January	98,4	103,2	105,2	98,0	93,9	111,8
February	100,1	103,6	101,8	100,2	109,8	105,3
March	101,9	99,6	102,2	99,2	102,4	113,0
April	97,3	98,6	102,3	105,4	103,9	111,7
May	103,7	95,5	103,3	102,4	106,3	114,1
June	98,1	101,7	103,1	99,3	103,5	106,9
July	102,7	97,4	93,9	98,9	110,9	122,0
August	96,0	100,0	112,6	104,5	106,5	111,2
September	99,6	103,6	96,5	105,4	110,9	113,8
October	100,5	96,1	100,6	102,2	109,4	
November	102,8	101,7	99,3	104,7	105,8	
December	100,5	99,4	95,1	104,8	111,0	

\* Revised.

1/ Preliminary.



**Table 3 - Index of the physical volume of mining production excluding gold (Base 2000=100)**

<b>Month</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003*</b>	<b>2004*</b>
January	90,6	94,4	98,3	89,6	85,7	109,6
February	96,1	96,4	98,6	95,8	107,3	103,2
March	98,6	97,9	104,4	101,0	106,2	123,2
April	91,6	94,1	102,2	105,3	106,3	118,0
May	105,1	96,6	108,9	107,0	114,7	126,2
June	100,7	107,5	112,5	107,3	116,4	121,0
July	103,5	97,6	93,7	102,4	118,8	134,2
August	97,1	101,7	124,5	111,2	116,3	123,7
September	100,6	105,1	99,7	111,4	122,9	129,1
October	104,6	100,6	110,2	111,9	124,2	
November	107,7	107,4	106,8	113,3	115,8	
December	97,2	100,8	97,7	111,2	123,0	
<b>Year</b>	<b>99,5</b>	<b>100,0</b>	<b>104,8</b>	<b>105,6</b>	<b>113,1</b>	

**Table 4 - Seasonally adjusted indices of mining production excluding gold (Base 2000=100)**

<b>Month</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
January	95,9	103,7	108,9	98,7	94,5	122,5
February	98,1	101,3	104,4	102,8	117,1	113,2
March	98,2	98,2	105,0	101,7	107,2	123,9
April	93,5	97,7	105,9	109,1	109,6	121,5
May	102,6	95,1	107,5	105,5	112,9	123,9
June	95,8	101,9	106,5	101,8	110,3	115,0
July	102,4	97,3	93,2	101,6	118,7	135,0
August	95,5	100,0	122,0	108,6	113,7	120,9
September	97,9	105,4	99,0	109,5	119,6	125,1
October	99,6	95,5	104,3	106,1	117,4	
November	102,9	103,0	102,9	110,0	112,7	
December	99,8	101,1	96,1	109,5	121,0	

\* Revised.

1/ Preliminary.

**Table 5 - Indices of physical volume of mining production according to mining divisions, mineral groups and minerals (Base 2000=100)**

Minerals	Weights	2003	Actual indices			Seasonally adjusted indices		
			September 2004	August * 2004	September 2003	September 2004	August 2004	September 2003
Total, gold included	100,0	<b>106,3</b>	<b>117,9</b>	<b>113,9</b>	114,6	113,8	111,2	110,9
Total, gold excluded	74,3	<b>113,1</b>	<b>129,1</b>	<b>123,7</b>	122,9	125,1	120,9	119,6
Gold	25,7	86,7	85,6	85,6	90,4	81,1	83,0	85,6
Iron ore	3,1	114,6	112,0	106,4	118,4	124,5	104,7	131,9
Chrome	1,1	111,1	116,8	121,6	116,8	113,3	117,6	113,0
Copper	1,6	88,3	75,2	68,8	85,6	75,7	70,2	84,8
Manganese ore	1,3	93,4	118,4	120,4	86,4	119,9	116,2	87,4
PGM's	27,6	128,8	152,4	146,0	147,6	144,2	143,1	140,6
Nickel	2,0	112,0	111,2	118,4	106,8	110,2	110,3	105,3
Other metallic minerals	2,9	84,0	87,2	86,4	92,0	89,2	83,1	94,3
Diamonds	8,4	117,5	163,2	133,6	121,2	157,9	132,4	118,0
Coal	20,0	105,6	109,6	112,0	113,2	107,2	109,1	110,8
Building materials	2,6	94,3	112,0	116,8	108,4	102,6	110,5	99,8
Other non-metallic minerals	3,8	81,4	84,8	76,4	73,6	85,6	75,3	74,4

\* Revised.

1/ Preliminary.

**Table 6 - Total value of mineral sales including gold (R million)**

<b>Month</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003*</b>	<b>2004</b>
January	6 098,8	6 244,1	9 241,5	11 387,0	9 868,8	9 782,3
February	5 763,6	7 115,7	9 711,7	10 634,4	10 236,5	9 428,2
March	6 445,1	8 958,5	8 134,9	11 639,2	9 829,3	10 137,8
April	5 706,5	7 521,3	8 554,2	11 194,9	9 294,1	9 789,3
May	5 702,9	8 222,7	9 675,9	12 145,3	9 104,1	10 322,0
June	6 391,3	8 222,5	10 640,7	11 637,2	9 745,9	10 798,6
July	5 996,1	7 640,3	10 146,3	10 779,9	10 403,7	10 503,3
August	6 852,9	8 223,4	9 586,4	11 633,5	9 612,0	9 540,2
September	6 548,3	8 568,9	8 711,5	12 115,1	10 008,1	
October	6 005,9	8 317,6	9 999,6	12 514,2	9 989,4	
November	7 573,0	9 828,5	9 627,7	11 059,4	9 521,3	
December	7 346,9	9 474,9	11 327,7	10 764,4	9 891,7	
<b>Year</b>	<b>76 431,3</b>	<b>98 338,4</b>	<b>115 358,1</b>	<b>137 504,5</b>	<b>117 504,9</b>	

**Table 7 - Seasonally adjusted value of mineral sales including gold (R million)**

<b>Month</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
January	5 995,1	6 174,0	9 142,6	11 304,9	9 668,0	9 652,1
February	5 884,5	7 180,1	9 808,5	10 776,1	10 299,8	9 505,1
March	6 521,3	9 777,6	8 211,1	11 820,9	10 503,0	10 416,8
April	5 914,0	7 767,3	8 957,7	11 898,4	9 817,8	10 349,4
May	5 818,5	8 281,0	9 719,0	12 132,4	9 065,9	10 295,1
June	6 268,4	7 948,9	10 327,0	11 190,9	9 372,3	10 470,5
July	5 833,0	7 427,3	10 025,7	10 675,9	10 290,0	10 277,8
August	6 812,1	8 280,3	9 637,3	11 758,8	9 797,5	9 695,1
September	6 779,5	8 597,2	8 684,5	12 206,6	10 003,9	
October	5 930,4	8 346,6	9 844,5	12 153,8	9 728,0	
November	7 662,3	9 935,5	9 758,9	11 293,0	9 748,5	
December	7 147,9	9 069,4	10 892,0	10 486,7	9 762,9	

\* Revised.

1/ Preliminary.

**Table 8 - Total value of mineral sales excluding gold (R million)**

Month	1999	2000	2001	2002	2003*	2004
January	4 033,9	4 476,9	7 181,9	8 002,3	6 744,1	7 442,4
February	3 801,6	4 963,8	7 720,8	7 368,2	7 452,6	6 891,9
March	3 938,7	6 688,4	5 912,0	8 110,9	7 140,7	7 452,2
April	3 802,4	5 790,2	6 748,0	7 481,9	6 815,2	7 328,5
May	3 826,7	6 166,9	7 139,7	8 619,3	6 477,2	7 983,7
June	4 413,3	5 908,5	8 245,9	8 035,5	6 759,5	8 027,8
July	4 061,6	5 700,6	7 779,6	7 344,7	7 613,1	8 335,0
August	4 956,0	5 892,6	6 942,5	8 065,2	7 052,7	7 220,3
September	4 480,8	6 479,6	6 219,3	8 562,1	7 092,3	
October	3 947,8	6 047,1	6 971,4	8 711,8	7 345,5	
November	5 038,1	7 529,4	6 953,1	7 981,8	7 140,4	
December	5 139,7	7 422,4	8 532,3	7 834,8	6 818,4	
<b>Year</b>	<b>51 440,6</b>	<b>73 066,4</b>	<b>86 346,5</b>	<b>96 118,5</b>	<b>84 451,7</b>	

**Table 9 - Seasonally adjusted value of mineral sales excluding gold (R million)**

Month	1999	2000	2001	2002	2003	2004
January	3 949,4	4 417,9	7 116,2	8 010,6	6 656,0	7 409,0
February	3 805,2	4 929,6	7 748,9	7 403,3	7 425,5	6 883,3
March	4 046,1	7 563,0	6 041,6	8 363,0	7 853,2	7 756,4
April	3 871,0	5 843,9	6 920,2	7 708,7	7 050,0	7 627,3
May	3 850,4	6 129,5	7 073,4	8 471,9	6 338,7	7 869,2
June	4 257,3	5 679,5	8 043,6	7 822,5	6 607,3	7 909,6
July	3 996,8	5 536,6	7 662,5	7 207,9	7 457,1	8 075,4
August	4 980,3	6 024,5	7 079,4	8 289,3	7 297,6	7 412,1
September	4 722,4	6 543,8	6 252,1	8 759,7	7 178,3	
October	4 067,1	6 260,5	7 048,9	8 650,4	7 304,2	
November	5 053,4	7 571,8	7 002,2	8 088,9	7 252,3	
December	4 926,1	6 984,2	8 012,6	7 421,1	6 520,2	

\* Revised.

1/ Preliminary.

**Table 10 – Total value of mineral sales according to mining divisions, mineral groups and minerals (R million)**

Minerals	2003	Actual value			Seasonally adjusted value		
		August 2004	July * 2004	August 2003	August 2004	July 2004	August 2003
Total, gold included	117 504,9	9 540,2	10 503,3	9 612,0	9 695,1	10 277,8	9 797,5
Total, gold excluded	84 451,7	7 220,3	8 335,0	7 052,7	7 412,1	8 075,4	7 297,6
Gold	33 053,0	2 319,9	2 168,3	2 559,4	2 283,0	2 202,4	2 499,9
Iron ore	4 191,0	371,8	360,5	292,7	375,2	350,0	295,2
Chrome	1 151,6	121,5	146,9	87,8	127,7	143,5	90,1
Copper	1 641,3	191,5	167,0	127,5	198,3	186,9	132,7
Manganese ore	1 467,5	167,9	130,9	189,9	159,1	158,3	186,0
PGM's	28 823,9	2 674,8	3 108,4	2 390,9	2 987,7	2 838,3	2 686,5
Nickel	2 729,2	315,1	314,3	273,2	290,2	322,1	255,2
Other metallic minerals	2 946,7	170,6	276,7	282,0	158,1	279,4	266,1
Coal	26 734,1	2 436,9	2 146,5	2 294,8	2 272,2	2 324,7	2 136,2
Building materials	3 524,5	335,3	326,7	293,3	317,5	311,7	276,8
- Granite or norite	766,5	43,7	40,4	52,9	39,8	39,9	47,1
- Lime and limestone	1 207,9	106,5	115,3	101,2	104,8	108,6	99,2
- Other building material	1 550,1	185,0	171,0	139,2	172,9	163,2	130,5
Other non-metallic minerals	11 241,8	435,2	1 357,1	820,6	526,1	1 160,5	972,8

\* Revised.

1/ Preliminary.

## Explanatory notes

- Introduction**
- 1 Statistics South Africa (Stats SA) publishes monthly information regarding the mining industry on the basis of mining production figures and mineral sales furnished by the Minerals Bureau, Department of Minerals and Energy. 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 mineral groups on a monthly basis.
  - 2 In accordance with international practice, the indices have to be re-based every five years to a new base year. The base year of the index of the physical volume of mining production is currently 2000=100. Both actual and seasonally adjusted figures are presented.
  - 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.
- 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 (see 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 2000 supplied by the Minerals Bureau, Department of Minerals and Energy.
- Seasonal adjustment**
- 10 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>	<b>11</b>	Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.
<b>Historical data</b>	<b>12</b>	More comprehensive detail on the method of calculation and historical data in respect of the production indices according to mining mineral groups for the period February 1990 to November 2002 is available in statistical release P2041.1, entitled <i>Mining statistics: Indices of the physical volume of mining production, Base: 2000=100, February 1990 to November 2002</i> , published on 11 February 2003 on the Stats SA website <a href="http://www.statssa.gov.za">www.statssa.gov.za</a>
<b>Related publications</b>	<b>13</b>	Users may also wish to refer to the following publications which are available from Stats SA - <ul style="list-style-type: none"><li>• <i>Bulletin of Statistics.</i></li><li>• <i>SA Statistics.</i></li></ul>
<b>Unpublished statistics</b>	<b>14</b>	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>	<b>15</b>	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>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 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 2000. 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 <i>System of National Accounts (SNA)</i> in the same way as in the <i>Standard Industrial Classification (SIC) of all Economic Activities</i> , Fifth Edition of May 1993.
<b>PGM' s - Platinum Group Metals</b>	Platinum Group Metals includes platinum; iridium; osmiridium; palladium; rhodium; ruthenium and osmium.
<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 mineral group is the ratio of the sales of a mineral group to the total sales 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 changes and changes in relative prices. New weights need to be calculated from time to time.



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