

Mining: Production and sales (preliminary)

December 2004

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Table A – Selected key figures regarding mining production for December 2004

Actual estimates	December 2004	% change between December 2003 and December 2004	% change between October 2003 to December 2003 and October 2004 to December 2004	% change between January 2003 to December 2003 and January 2004 to December 2004
Index of the physical volume of mining production (2000=100)				
Gold	78,4	-8,0%	-8,0%	-8,4%
Non-gold minerals	139,1	+12,8%	+7,4%	+9,6%
Total	123,6	+8,9%	+4,4%	+5,9%

Seasonally adjusted estimates

	December 2004	% change between November 2004 and December 2004	% change between July 2004 to September 2004 and October 2004 to December 2004
Index of the physical volume of mining production (2000=100)			
Gold	75,9	-4,2%	-1,6%
Non-gold minerals	135,4	+8,5%	-2,9%
Total	120,1	+6,2%	-2,7%

Key findings regarding mining production for the year 2004

Mining production increases

The total mining production for the year 2004, increased by 5,9% compared with year 2003.

The increase of 5,9% in the total mining production was mainly due to an increase of 9,6% in the production of non-gold minerals whereas the production of gold reflected a decrease of 8,4% during the above-mentioned period.

Key findings regarding mining production as at the end of December 2004

Mining production decreases

The total mining production for the fourth quarter of 2004, after seasonal adjustment, decreased by 2,7% compared with the third quarter of 2004. This decrease was due to a seasonally adjusted decrease of 2,9% in the production of non-gold minerals and 1,6% in the production of gold during the fourth quarter of 2004 compared with the third quarter of 2004. The seasonally adjusted decrease of 2,9% in the production of non-gold minerals was mainly due to a decrease in the production of PGM's (-5,2 percentage points). However, this decrease was counteracted by a seasonally adjusted increase in the production of coal (+2,1 percentage points) (see table 6).

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

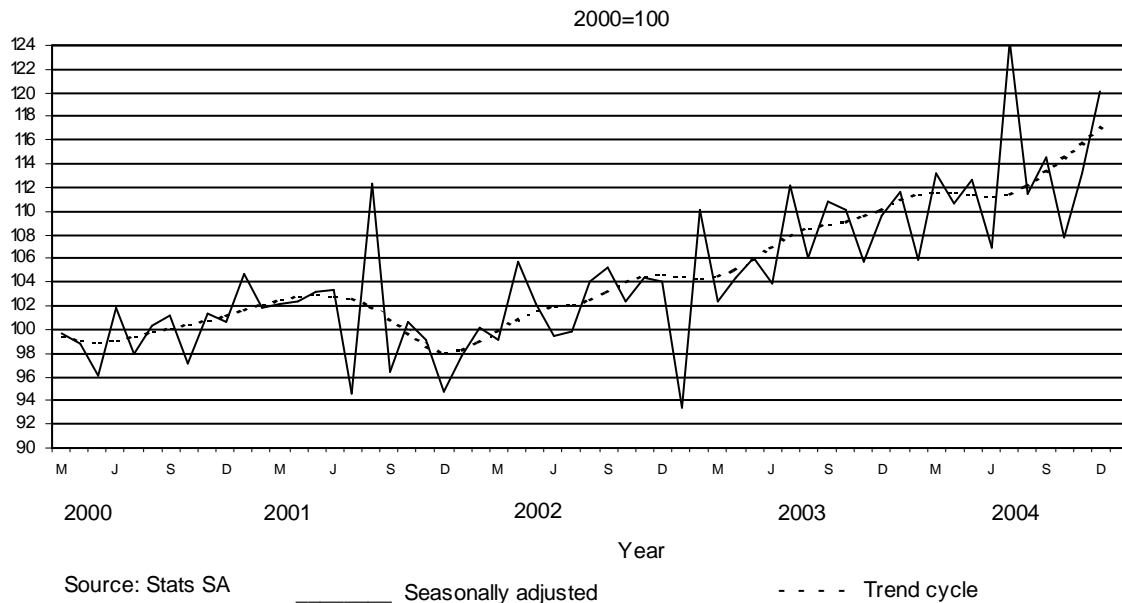


Table B – Selected key figures regarding mineral sales for November 2004

Actual estimates

	November 2004 R million	% change between November 2003 and November 2004	% change between September 2003 to November 2003 and September 2004 to November 2004	% change between January 2003 to November 2003 and January 2004 to November 2004
Mineral sales				
Gold	2 402,0	+0,9%	-7,3%	-10,4%
Non-gold minerals	8 689,4	+21,4%	+18,2%	+11,8%
Total	11 091,4	+16,3%	+11,4%	+5,6%

Seasonally adjusted estimates

	November 2004 R million	% change between October 2004 and November 2004	% change between June 2004 to August 2004 and September 2004 to November 2004
Mineral sales			
Gold	2 514,0	+12,7%	+2,2%
Non-gold minerals	8 858,4	+12,7%	+5,8%
Total	11 372,4	+12,7%	+5,0%

Key findings regarding mineral sales as at the end of November 2004

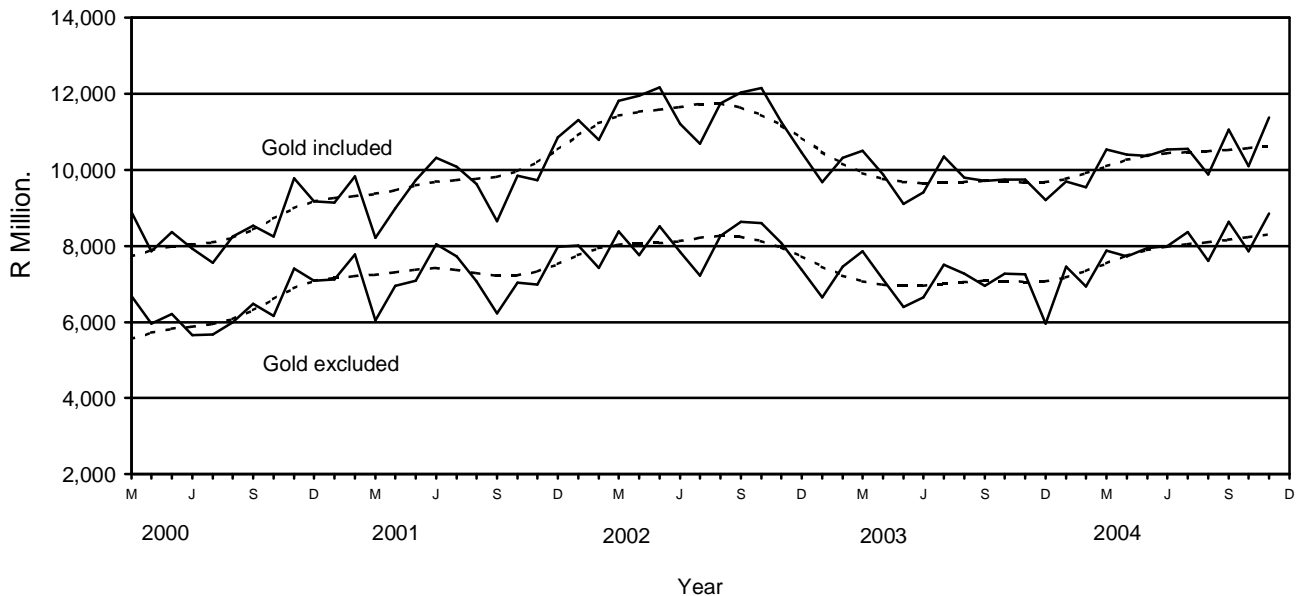
Mineral sales increase

The seasonally adjusted value of mineral sales at current prices for the three months ended November 2004 reflected an increase of 5,0% compared with the previous three months. Furthermore, the actual value of mineral sales at current prices for the three months ended November 2004 increased by 11,4% compared with the three months ended November 2003.

The increase of 5,0% in the seasonally adjusted value of mineral sales for the three months ended November 2004 compared with the previous three months can be attributed to an increase of 5,8% (+R1 395,5 million) in sales of non-gold minerals and an increase of 2,2% (+R151,9 million) in sales of gold during the same period.

The major contributors to the increase of 11,4% in the actual value of mineral sales at current prices for the three months ended November 2004 compared with the three months ended November 2003 were other non-metals (+6,0 percentage points or +R1 760,5 million), coal (+3,5 percentage points or +R1 035,6 million) and PGM's (+1,3 percentage points or +R396,4 million) (see table 12).

Figure 2 - Total value of mineral sales including gold



Source: Stats SA

—— Seasonally adjusted

- - - - Trend cycle

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Forthcoming issue	Issue	Expected date of publication
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	January 2005	10 March 2005
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Purpose of the survey	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.
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Table 1 - Index of the physical volume of mining production including gold (Base 2000=100)

Month	1999	2000	2001	2002	2003*	2004*
January	92,6	93,8	95,0	89,0	85,1	100,6
February	99,0	99,3	96,8	94,2	101,7	97,4
March	104,8	100,0	102,3	99,1	101,8	112,8
April	96,2	95,0	98,9	102,0	101,0	107,5
May	104,5	95,7	103,6	102,9	107,1	114,4
June	103,7	106,8	108,4	104,1	108,6	111,4
July	102,5	96,9	93,5	99,0	110,7	122,2
August	98,4	102,1	115,2	107,2	109,1	115,0
September	104,4	104,9	98,4	108,1	114,6	118,8
October	104,2	100,0	105,1	106,7	114,5	111,8
November	107,0	105,5	102,6	107,5	108,6	116,0
December	100,9	100,2	97,2	107,1	113,5	1/ 123,6
Year	101,5	100,0	101,4	102,2	106,4	112,6

1/ Preliminary.

* Revised.

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

Month	1999	2000	2001	2002	2003	2004
January	98,3	103,0	104,8	97,7	93,4	111,6
February	100,0	103,6	101,9	100,2	110,1	105,9
March	101,9	99,5	102,2	99,2	102,3	113,1
April	97,2	98,5	102,4	105,7	104,4	110,7
May	103,7	95,6	103,2	102,2	106,1	112,7
June	98,2	101,8	103,3	99,5	103,9	106,9
July	103,3	97,9	94,6	99,8	112,1	124,3
August	96,0	100,0	112,3	104,1	106,0	111,5
September	99,4	103,4	96,5	105,3	110,8	114,5
October	100,3	96,0	100,6	102,4	110,1	107,8
November	102,8	101,5	99,2	104,3	105,8	113,1
December	100,5	99,5	94,8	104,0	109,7	120,1

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

Month	1999	2000	2001	2002	2003*	2004*
January	90,6	94,4	98,3	89,6	85,7	110,0
February	96,1	96,4	98,6	95,8	107,3	103,6
March	98,6	97,9	104,4	101,0	106,2	123,5
April	91,6	94,1	102,2	105,3	106,3	118,3
May	105,1	96,6	108,9	107,0	114,7	126,6
June	100,7	107,5	112,5	107,3	116,4	121,5
July	103,5	97,6	93,7	102,4	118,8	136,8
August	97,1	101,7	124,5	111,2	116,3	126,5
September	100,6	105,1	99,7	111,4	122,9	131,8
October	104,6	100,6	110,2	111,9	124,2	123,2
November	107,7	107,4	106,8	113,3	116,2	128,2
December	97,2	100,8	97,7	111,3	123,3	1/ 139,1
Year	99,5	100,0	104,8	105,6	113,2	124,1

1/ Preliminary.

* Revised.

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

Month	1999	2000	2001	2002	2003	2004
January	95,8	103,4	108,4	98,3	93,9	122,2
February	98,0	101,2	104,5	103,0	117,7	114,1
March	98,2	98,1	105,0	101,7	107,3	124,2
April	93,4	97,6	106,0	109,3	109,9	121,9
May	102,6	95,1	107,2	105,1	112,5	123,7
June	95,9	102,1	106,8	102,3	111,1	116,3
July	103,2	98,0	94,2	102,8	120,2	139,4
August	95,5	100,0	121,6	108,1	113,0	122,7
September	97,6	105,1	98,9	109,4	119,4	127,4
October	99,4	95,3	104,3	106,4	118,5	118,1
November	102,9	102,8	102,8	109,6	112,9	124,8
December	99,9	101,3	95,7	108,3	119,1	135,4

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

Minerals	Weights	2004	Actual indices			Seasonally adjusted indices		
			December 2004	November 2004*	December 2003	December 2004	November 2004	December 2003
Total, gold included	100,0	112,6	123,6	116,0	113,5	120,1	113,1	109,7
Total, gold excluded	74,3	124,1	139,1	128,2	123,3	135,4	124,8	119,1
Gold	25,7	79,4	78,4	80,8	85,2	75,9	79,2	82,4
Iron ore	3,1	117,4	126,4	117,6	115,6	126,1	119,1	115,5
Chrome	1,1	117,5	126,8	128,8	97,6	138,2	124,5	106,5
Copper	1,6	75,3	72,8	69,6	86,8	70,8	69,0	85,5
Manganese ore	1,3	113,5	133,6	118,8	106,4	129,6	118,2	103,9
PGM's	27,6	144,8	170,4	135,2	164,4	142,5	134,4	138,2
Nickel	2,0	112,3	129,2	106,8	114,4	123,9	107,5	109,7
Other metallic minerals	2,9	82,9	87,6	89,6	66,0	85,1	89,4	64,1
Diamonds	8,3	130,6	136,0	143,2	120,4	148,6	137,8	132,9
Coal	20,0	112,3	119,6	130,8	97,6	137,0	121,7	111,5
Building materials	2,6	113,1	114,8	120,0	85,2	133,4	116,8	99,4
Other non-metallic minerals	3,8	97,6	124,4	114,4	74,0	128,2	114,8	76,5

* Revised.

Table 6 - Contribution of the mining divisions to the total mining production (Base 2000=100)

Mining division	Percentage contribution to the total mining production using the weights	Average seasonally adjusted Production index for October to December 2004	Quarterly percentage change October 2004 to December 2004 compared with the preceding three months	Contribution (percentage points) to the percentage change in the total mining production 1/
Gold	25,7	77,7	-1,6	-0,4
Non-gold minerals				
Iron ore	3,1	120,0	3,8	0,1
Copper	1,6	70,3	-4,0	-0,1
Manganese ore	1,3	121,8	7,9	0,1
Chromium	1,1	127,6	7,5	0,0
PGM's	27,6	134,4	-18,8	-5,2
Nickel	2,0	115,9	9,5	0,2
Other metallic minerals	2,9	88,0	4,4	0,1
Diamonds	8,3	143,7	5,2	0,4
Coal	20,0	121,2	10,7	2,1
Building materials	2,6	119,9	5,5	0,2
Other non-metallic minerals	3,8	121,1	-5,3	-0,2
Total non-gold minerals	74,3	126,1	-2,9	-2,3
Total minerals	100	113,7	-2,7	-2,7

1/ The contribution is calculated by multiplying the quarterly percentage change of each mining division with its corresponding weight in the base year, divided by 100.

Table 7 - Total value of mineral sales including gold (R million)

Month	1999	2000	2001	2002	2003*	2004
January	6 098,8	6 244,1	9 241,5	11 387,0	9 868,8	9 798,3
February	5 763,6	7 115,7	9 711,7	10 634,4	10 236,5	9 441,5
March	6 445,1	8 958,5	8 134,9	11 639,2	9 829,3	10 224,6
April	5 706,5	7 521,3	8 554,2	11 194,9	9 294,1	9 763,4
May	5 702,9	8 222,7	9 675,9	12 145,3	9 104,1	10 320,4
June	6 391,3	8 222,5	10 640,7	11 637,2	9 745,9	10 816,7
July	5 996,1	7 640,3	10 146,3	10 779,9	10 403,7	10 689,7
August	6 852,9	8 223,4	9 586,4	11 633,5	9 612,0	9 707,0
September	6 548,3	8 568,9	8 711,5	12 115,1	10 008,1	11 367,6
October	6 005,9	8 317,6	9 999,6	12 514,2	9 989,4	10 436,7
November	7 573,0	9 828,5	9 627,7	11 059,4	9 535,8	1/ 11 091,4
December	7 346,9	9 474,9	11 327,7	10 764,4	9 899,4	
Year	76 431,3	98 338,4	115 358,1	137 504,5	117 527,1	

1/ Preliminary.

* Revised.

Table 8 - Seasonally adjusted value of mineral sales including gold (R million)

Month	1999	2000	2001	2002	2003	2004
January	5 991,1	6 166,3	9 140,5	11 308,0	9 670,8	9 703,0
February	5 891,7	7 193,8	9 834,1	10 793,3	10 325,8	9 546,6
March	6 523,0	9 774,3	8 213,7	11 824,6	10 509,4	10 534,0
April	5 920,5	7 785,1	8 987,8	11 948,8	9 889,0	10 406,5
May	5 819,5	8 289,0	9 733,1	12 168,2	9 113,2	10 362,6
June	6 266,5	7 943,5	10 322,8	11 208,6	9 411,2	10 539,2
July	5 841,6	7 443,0	10 087,7	10 696,2	10 357,6	10 551,0
August	6 814,2	8 272,3	9 626,6	11 756,1	9 795,4	9 880,7
September	6 794,2	8 601,4	8 646,0	12 038,8	9 714,4	11 054,7
October	5 929,5	8 336,9	9 851,2	12 148,9	9 752,2	10 091,2
November	7 622,0	9 878,3	9 733,6	11 261,7	9 740,8	1/ 11 372,4
December	7 146,5	9 053,1	10 860,1	10 451,2	9 213,5	

Table 9 - 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	7 458,4
February	3 801,6	4 963,8	7 720,8	7 368,2	7 452,6	6 905,2
March	3 938,7	6 688,4	5 912,0	8 110,9	7 140,7	7 539,0
April	3 802,4	5 790,2	6 748,0	7 481,9	6 815,2	7 340,6
May	3 826,7	6 166,9	7 139,7	8 619,3	6 477,2	7 976,4
June	4 413,3	5 908,5	8 245,9	8 035,5	6 759,5	8 068,1
July	4 061,6	5 700,6	7 779,6	7 337,9	7 613,1	8 544,4
August	4 956,0	5 892,6	6 942,5	8 064,1	7 052,7	7 418,4
September	4 480,8	6 479,6	6 219,3	8 558,4	7 092,3	8 782,5
October	3 947,8	6 047,1	6 971,4	8 709,8	7 345,5	8 060,1
November	5 038,1	7 529,4	6 953,1	7 962,6	7 154,9	1/ 8 689,4
December	5 139,7	7 422,4	8 532,3	7 832,6	6 826,2	
Year	51 440,6	73 066,4	86 346,5	96 083,5	84 474,0	

1/ Preliminary.

* Revised.

Table 10 - Seasonally adjusted value of mineral sales excluding gold (R million)

Month	1999	2000	2001	2002	2003	2004
January	3 945,7	4 410,7	7 114,5	8 014,3	6 656,7	7 457,3
February	3 813,0	4 944,5	7 777,3	7 428,0	7 458,2	6 930,3
March	4 049,4	7 561,7	6 048,3	8 376,3	7 867,7	7 882,8
April	3 876,4	5 860,5	6 948,4	7 753,1	7 114,1	7 719,0
May	3 852,7	6 139,6	7 093,6	8 518,4	6 396,2	7 940,8
June	4 256,1	5 674,7	8 040,6	7 839,7	6 644,8	7 997,8
July	4 004,3	5 550,4	7 720,3	7 217,1	7 511,9	8 361,9
August	4 982,5	6 015,9	7 061,9	8 264,1	7 269,0	7 601,5
September	4 736,9	6 547,0	6 223,4	8 635,8	6 960,5	8 637,8
October	4 065,5	6 249,4	7 037,2	8 607,0	7 279,4	7 860,5
November	5 010,1	7 512,9	6 980,2	8 072,7	7 263,6	8 858,4
December	4 924,1	6 967,1	7 978,8	7 380,1	5 963,0	

Table 11 – Total value of mineral sales according to mining divisions, mineral groups and minerals (R million)

Minerals	2003	Actual value			Seasonally adjusted value		
		November 2004	October 2004*	November 2003	November 2004	October 2004	November 2003
Total, gold included	117 5227,1	11 091,4	10 436,7	9 535,8	11 372,4	10 091,2	9 740,8
Total, gold excluded	84 474,0	8 689,4	8 060,1	7 154,9	8 858,4	7 860,5	7 263,6
Gold	33 053,0	2 402,0	2 376,6	2 380,9	2 514,0	2 230,7	2 477,2
Iron ore	4 191,0	396,7	396,1	333,7	384,7	422,1	320,2
Chrome	1 151,6	151,8	148,5	100,5	145,6	160,3	96,4
Copper	1 641,3	151,0	167,8	146,0	149,9	150,9	142,6
Manganese ore	1 467,5	163,0	162,0	154,5	197,3	187,6	182,9
PGM's	28 823,9	2 435,8	2 464,1	2 450,7	2 569,3	2 601,6	2 585,8
Nickel	2 729,2	265,8	266,4	279,6	263,9	268,6	276,9
Other metallic minerals	2 946,7	322,1	319,2	247,0	302,3	280,0	230,1
Coal	26 734,1	2 840,8	2 346,3	2 067,4	2 982,3	2 321,5	2 159,6
Building materials	3 545,5	358,4	327,0	351,3	333,6	296,9	319,5
- Granite or norite	766,5	40,0	34,1	88,1	30,7	32,9	69,4
- Lime and limestone	1 207,9	113,9	95,8	101,8	110,4	89,6	98,7
- Other building material	1 571,2	204,5	197,1	161,4	192,5	174,4	151,4
Other non-metallic minerals	11 242,7	1 603,9	1 462,8	1 024,2	1 529,5	1 171,0	949,6

* Revised.

Table 12 - Contribution of the mining divisions to the total value of mineral sales

Mining division	Percentage contribution to total mineral sales during September 2003 to November 2003	Percentage change between September 2003 to November 2003 and September 2004 to November 2004	Contribution (percentage points) to the percentage change in the total value of mineral sales 1/	Difference in sales of mining divisions between September 2003 to November 2003 and September 2004 to November 2004 R million
Gold	26,9	7,3	-2,0	-577,0
Non-gold minerals				
Iron ore	3,5	14,0	0,5	145,7
Copper	1,4	21,8	0,3	91,9
Manganese ore	1,2	48,1	0,6	168,2
Chromium	1,0	48,5	0,5	147,7
PGM's	26,2	5,1	1,3	396,4
Nickel	2,6	8,7	0,2	65,7
Other metallic minerals	2,3	22,2	0,5	152,2
Coal	22,2	15,8	3,5	1 035,6
Building materials	3,6	-2,3	-0,0	-24,5
Other non-metallic minerals	9,1	65,8	6,0	1 760,5
Total non-gold minerals	73,1	18,2	13,4	3 939,4
Total minerals	100,0	11,4	11,4	3 362,4

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 September 2003 to November 2003, divided by 100.

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.

- Reliability of estimates** **11** Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.
- Historical data** **12** 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 *Mining statistics: Indices of the physical volume of mining production, Base: 2000=100, February 1990 to November 2002*, published on 11 February 2003 on the Stats SA website www.statssa.gov.za
- 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 not included in standard publications. 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

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 basis	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.
Index of physical volume of mining production	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.
Industry	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 January 1993.
PGM' s - Platinum Group Metals	Platinum Group Metals includes platinum; iridium; osmiridium; palladium; rhodium; ruthenium and osmium.
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 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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