

Dipalopalo tsa Aforika Borwa • Statistieke Suid-Afrika • Tistatistiki ta Afrika-Dzonga • Ukuqokelelwa kwamanani eNingizimu Afrika

Mining: production and sales

September 2003

Co-operation between Statistics South Africa (Stats SA), the citizens of the country, the private sector and government institutions is essential for a successful statistical system. Without continued co-operation and goodwill, the timely release of relevant and reliable official statistics will not be possible.

Stats SA publishes approximately three hundred different 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.

This data in this statistical release adheres to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data; access by the public; integrity; and quality of the disseminated data.

Embargo: 11:00

Date: 11 November 2003

NB The compilation of statistics on mining production and sales is currently undergoing a methodological review.

This review may lead to a revision of some of the data in the series.

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Key figures regarding mining production as at the end of September 2003

Actual estimates	September 2003	% change between September 2002 and September 2003	% change between July 2002 to September 2002 and July 2003 to September 2003	% change between January 2002 to September 2002 and January 2003 to September 2003
Index of the physical volume of mining production				
Gold	87,6	-11,3%	-7,6%	-6,8%
Non-gold minerals	124,1	+11,4%	+12,0%	+8,7%
Total	114,7	+6,1%	+7,4%	+5,0%

Seasonally adjusted estimates	September 2003	% change between August 2003 and September 2003	% change between April 2003 to June 2003 and July 2003 to September 2003
Index of the physical volume of mining production			
Gold	83,3	-1,5%	-0,4%
Non-gold minerals	123,3	+5,7%	+7,6%
Total	113,0	+ 4,2%	+6,0%

Key findings regarding mining production as at the end of September 2003

Mining production increases

Total mining production for the third quarter of 2003, after seasonal adjustment, reflected an increase of 6,0% compared with the second quarter of 2003.

The increase of 6,0% after seasonal adjustment in the total mining production was due to a seasonally adjusted increase of 7,6% in the production of non-gold minerals during the third quarter of 2003 compared with the second quarter of 2003. However, this increase was to a certain extent counteracted by a decrease of 0,4% in gold production during the same period. The seasonally adjusted increase of 7,6% in the production of non-gold minerals was mainly due to the increase in the production of platinum, coal, building material and diamond mines.

2000=100 Index Year

Figure 1 - Indices of physical volume of mining production

Source: Stats SA ____ Seasonally adjusted ----- Trend cycle

Key figures regarding mineral sales as at the end of August 2003

Actual estimates	August 2003 R million	% change between August 2002 and August 2003	% change between June 2002 to August 2002 and June 2003 to August 2003	% change between January 2002 to August 2002 and January 2003 to August 2003
Mineral sales				
Gold	2 460,3	-31,0%	-20,0%	-20,6%
Non-gold minerals	7 024,1	-12,7%	-9,1%	-12,3%
Total	9 484,4	-18,4%	-12,5%	-14,9%

Seasonally	adjusted
estimates	

Mineral sales
Gold
Non-gold minerals
Total

August 2003 R million	% change between July 2003 and August 2003	% change between March 2003 to May 2003 and June 2003 to August 2003
2 345,7 7 241,7	-22,6% -7,1%	+0,1% +6,2%
9 587,4	-11,4%	+4,4%

Key findings regarding mineral sales as at the end of August 2003

Mineral sales increase

The seasonally adjusted value of mineral sales at current prices for the three months ended August 2003 reflected an increase of 4,4% compared with the previous three months. However, the actual value of mineral sales at current prices for the three months ended August 2003 reflected a decrease of 12,5% compared with the three months ended August 2002.

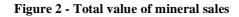
The increase of 4,4% in the seasonally adjusted value of mineral sales for the three months ended August 2003 compared with the previous three months can be attributed to an increase of 6.2% (+R1 255,8 million) in sales of non-gold minerals and 0.1% (+R6,5 million) in sales of gold minerals.

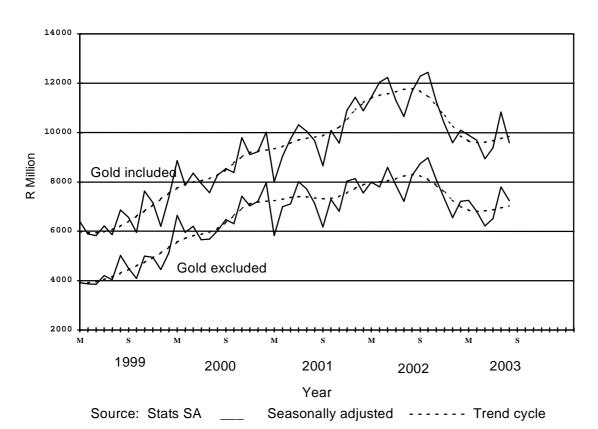
The major contributors to the decrease of 12,5% in the actual value of mineral sales at current prices for the three months ended August 2003 compared with the three months ended August 2002 were gold (-6,2 percentage points or -R2 118,8 million), platinum (-3,8 percentage points or -R1 258,4 million) and coal (-1,9 percentage points or -R650,3 million). This decrease was partially counteracted by an increase of 1,5% (+R529,0 million) in the sales of other non-metallic minerals (see table B).

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

Mining division	Percentage contribution to mineral sales during June 2002 to August 2002	change between gral sales luring e 2002 to gust 2002 August 2003 August 2003 August 2003		Difference in total mineral sales between June 2002 to August 2002 and June 2003 to August 2003 R million
Gold	31,2	-20,0	-6,2	-2 118,8
Non-gold minerals				
Iron ore	4,1	-27,4	-1,1	-380,9
Copper	1,5	-22,4	-0,3	-115,4
Manganese ore	1,5	-18,3	-0,3	-93,6
Chromium	0,8	-3,4	0,0	-9,4
Platinum	25,1	-15,1	-3,8	-1, 285,4
Nickel	1,9	10,4	0,2	68,5
Other metallic minerals	3,1	-22,4	-0,7	-238,1
Coal	20,8	-9,2	-1,9	-650,3
Building materials	2,4	5,8	0,1	48,0
Other non-metallic	7,6	20,4	1,5	529,0
Total non-gold minerals	68,8	-9,1	-6,3	-2 127,6
Total minerals	100,0	-12,5	-12,5	-4 246,4

^{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 June 2002 to August 2002, divided by 100.





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Notes

Forthcoming issues	Issue	Expected date of publication
	October 2003 November 2003 December 2003	09 December 2003 13 January 2004 10 February 2004
Purpose of the survey	sample of mining establis survey are used to calculate	duction and sales survey is a country-wide sample survey covering a hments operating in the South African economy. The results of this e physical volume of mining production indices in order to estimate the DP) and its components, which in turn are used to develop and monitor

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

Month	1997	1998	1999	2000	2001	2002	2003
				Actual indices	 3		
 J	97,6	99,1	92,6	93,8	95,0	89,0	85 , 2
F	103,1	101,5	99,0	99,3	96,8	94,2	104,0
M	101,8	103,8	104,8	100,0	102,3	99,1	103,5
A	100,9	99,8	96,2	95,0	98,9	102,0	103,5
M	106,3	100,3	104,5	95,7	103,6	102,9	107,4
J	110,2	108,8	103,7	106,8	108,4	104,1	109,6
J	105,0	101,8	102,5	96,9	93,5	99,0	111,6
A	107,5	104,1	98,4	102,1	115,2	107,2	111,4
s	107,1	104,2	104,4	104,9	98,4	108,1	114,7
0	105,0	109,3	104,2	100,0	105,1	106,6	
N	108,9	106,8	107,0	105,5	102,6	107,5	
D	102,8	103,2	100,9	100,2	97,2	107,0	
Year	104,7	103,6	101,5	100,0	101,4	102,2	
				Seasonally adju	usted indice	s	
 Ј	100,0	101,7	97,9	102,2	104,1	97,4	92,8
F	99,4	101,1	100,0	103,4	101,3	99,2	110,3
M	96,5	99,8	101,8	99,4	101,9	98,9	103,6
A	101,0	101,6	97,0	98,2	101,9	105,1	106,3
M	103,8	98,5	103,7	95,6	103,4	102,7	106,9
J	102,7	103,6	98,1	101,8	103,1	99,3	103,9
J	102,4	99,1	103,8	98,8	95,2	100,9	114,6
A	101,6	98,6	95,9	100,0	112,5	104,4	108,4
s	100,7	99,9	99,9	104,0	97,1	106,5	113,0
0	99,0	105,2	100,3	96,1	100,7	102,3	
N	102,0	101,2	102,8	101,5	98,9	103,7	
D	100,0	101,9	100,4	99,4	95,4	105,5	

Table 2 - Index of the physical volume of mining production excluding gold (Base 2000=100)

Month	1997	1998	1999	2000	2001	2002	2003
				Actual indic	ces		
J	94,0	94,5	90,6	94,4	98,3	89,6	85,9
F j	97,3	97,8	96,1	96,4	98,6	95,8	110,4
м	92,0	101,5	98,6	97,9	104,4	101,0	108,6
A İ	95,9	98,6	91,6	94,1	102,2	105,3	109,7
M İ	100,8	99,5	105,1	96,6	108,9	107,0	115,2
J	107,7	106,4	100,7	107,5	112,5	107,3	117,9
J	101,3	99,4	103,5	97,6	93,7	102,4	120,0
A į	101,5	100,3	97,1	101,7	124,5	111,2	119,8
s į	98,7	99,7	100,6	105,1	99,7	111,4	124,1
0	99,4	110,8	104,6	100,6	110,2	111,9	
N	99,9	104,5	107,7	107,4	106,8	113,4	
D	94,6	96,3	97,2	100,8	97,7	111,3	
Year	98,6	100,8	99,5	100,0	104,8	105,6	
				Seasonally ad	ljusted indice	:s	
 Ј	95,7	96,3	95,3	102,4	107,6	98,2	93,5
F İ	94,4	98,3	98,0	101,0	103,7	101,5	118,1
м	89,7	98,0	98,1	98,0	104,7	101,4	109,3
a i	96,3	100,0	93,1	97,2	105,4	108,7	112,7
м	98,6	96,3	102,5	95,1	107,4	105,6	113,5
Jį	99,3	101,5	95,8	102,1	106,6	102,0	111,3
Jį	98,4	95,8	103,9	99,1	95,0	104,2	123,3
A İ	97,1	95,6	95,4	100,0	121,8	108,4	116,6
s į	95,5	97,7	98,2	105,9	99,7	110,9	123,3
o i	94,1	105,0	99,4	95,4	104,3	106,1	
n i	95,9	99,2	102,9	102,7	102,2	108,6	
рİ	95,8	99,1	99,8	101,3	96,6	110,5	

^{*} Revised

Table 3 - Indices of physical volume of mining production according to major divisions, major groups and minerals (Base 2000=100)

Actual indices | Seasonally adjusted | indices Minerals |Weights |-----| Sep. | Aug. * | Sep. | Sep. | Aug. | Sep. 100,0 102,2 114,7 111,4 108,1 113,0 108,4 106,5 74,3 105,6 124,1 119,8 111,4 123,3 116,6 110,9 Total, gold included Total, gold excluded 25,7 92,4 87,6 87,2 98,8 83,3 84,6 3,1 109,2 118,8 114,0 94,0 133,4 111,5 1,1 96,6 118,0 118,0 112,4 109,2 114,8 98,8 83,3 84,6 94,0 133,4 111,5 Gold 93.7 105,3 Iron ore Chrome 104,2 1,6 94,7 72,4 84,4 1,3 92,3 86,4 92,0 85,6 62,2 84,6 97,2 87,2 91,8 Copper 73,8 Manganese ore 97,8 27,6 115,9 146,8 138,0 128,4 144,8 135,5 Platinum 127,4 2,0 | 105,3 | 134,8 | 130,4 | 114,4 | 128,9 | 125,1 | 2,9 | 99,6 | 90,8 | 90,4 | 92,0 | 95,1 | 89,0 Nickel 109,1 Other metallic minerals 95,9 8,4 100,6 115,2 120,8 106,0 119,5 118,4 Diamonds 110,1 20,0 99,8 114,4 110,8 102,4 112,6 107,4 Coal 100,6 2,6 | 99,4 | 128,8 | 105,2 | 109,6 | 121,1 | 96,8 | 3,8 | 90,6 | 85,6 | 88,0 | 93,2 | 84,6 | 81,3 Building materials 103,3 Other non-metallic minerals 92,5 ._____

^{*} Revised

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

Month	1997	1998	1999	2000	2001	2002*	2003*
 				Actual values	3		
 J	6 447,8	5 577,2	6 098,8	6 244,1	9 241,5	11 394,3	9 744,2
F	5 159,4	5 316,4	5 763,6	7 115,7	9 711,7	10 647,7	10 151,2
м	4 936,6	5 547,6	6 445,1	8 958,5	8 134,9	11 633,4	9 700,3
A	5 576,8	5 662,1	5 706,5	7 521,3	8 554,2	11 194,6	9 113,8
M	5 309,0	5 433,1	5 702,9	8 222,7	9 675,9	12 146,6	9 010,9
J	5 445,9	6 017,2	6 391,3	8 222,5	10 640,7	11 637,6	9 718,1
J	5 780,3	6 669,1	5 996,1	7 640,3	•	10 763,8	10 570,2
A	5 546,2	6 318,5	6 852,9	8 223,4	9 586,4	11 617,7	9 484,4
S	5 568,2	6 066,8	6 548,3	8 568,9	8 711,5	12 094,4	
0	6 026,1	6 446,0	6 005,9	8 317,6	9 999,6	12 503,6	
N	5 130,8	5 994,9	7 573,0	9 828,5	•	11 029,1	
D	5 386,9	6 343,0	7 346,9	9 474,9	11 327,7	10 753,9	
Year	66 314,0	71 391,9	76 431,3	98 338,4	115 358,1	137 416,7	
				Seasonally ad	justed values		
J	6 192,9	6 068,7	5 987,0	6 163,5	9 155,6	11 365,0	9 584,0
F	5 372,1	5 948,0	5 877,2	7 159,9	9 750,2	10 694,9	10 093,2
M	4 933,8	5 588,2	6 482,2	9 457,8	8 080,8	11 587,7	9 899,9
A	5 607,1	6 543,3	5 910,4	7 761,0	8 950,5	11 925,4	9 686,2
M	5 362,1	5 537,2	5 814,2	8 258,8	9 680,7	12 097,7	8 938,6
J	5 490,0	5 937,6	6 263,9	7 929,8	10 302,3	11 221,8	9 372,8
J	5 552,2	6 434,2	5 862,7	7 496,8	•	10 715,9	10 826,8
A	5 472,9	-	6 804,7	8 283,8	9 596,5	11 658,7	9 587,4
s	5 629,8	6 137,5	6 780,2	8 628,7	8 759,9	12 281,6	
0	5 689,9	6 283,3	5 949,8	8 406,1	9 973,4	12 440,6	
N	5 285,1	6 127,8	7 698,0	9 984,5	•	11 256,9	
D	5 530,8	6 317,1	7 150,0	9 044,6	10 838,2	10 363,2	

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

Month	1997	1998	1999	2000	2001	2002*	2003*
				Actual values			
 J	 3 394,4	3 737,4	4 033,9	4 476,9	7 181,9	8 009,6	6 609,2
F	3 280,4	3 579,7	3 801,6	4 963,8	7 720,8	7 381,4	7 345,2
M	3 172,6	3 713,2	3 938,7	6 688,4	5 912,0	8 105,1	6 999,0
A	3 441,4	3 779,7	3 802,4	5 790,2	6 748,0	7 481,5	6 619,5
M	3 245,0	3 677,1	3 826,7	6 166,9	7 139,7	8 620,6	6 377,4
J	3 663,5	4 121,5	4 413,3	5 908,5	8 245,9	8 035,9	6 716,2
J	3 429,2	4 285,6	4 061,6	5 700,6	7 779,6	7 328,5	7 545,9
A	3 555,0	4 122,2	4 956,0	5 892,6	6 942,5	8 049,4	7 024,1
S	3 573,9	3 857,5	4 480,8	6 479,6	6 219,3	8 541,4	
0	3 566,2	4 175,0	3 947,8	6 047,1	6 971,4	8 701,2	
N	3 332,1	3 955,1	5 038,1	7 529,4	6 953,1	7 951,5	
D	3 583,1	4 092,9	5 139,7	7 422,4	8 532,3	7 824,2	
Year	41 236,8	47 096,9	51 440,6	73 066,4	86 346,5	96 030,3	
				Seasonally adj	usted values		
J	3 240,5	4 257,1	3 941,5	4 409,9	7 132,3	8 071,6	6 550,9
F	3 295,2	4 069,3	3 796,4	4 911,4	7 698,0	7 345,1	7 222,3
M	3 135,2	3 745,2	4 004,6	7 243,5	5 914,2	8 140,1	7 256,2
A	3 476,9	4 611,9	3 878,1	5 845,4	6 906,0	7 675,3	6 818,1
M	3 240,8	3 705,3	3 844,1	6 103,3	7 036,1	8 445,0	6 218,9
J	3 540,3	3 935,3	4 248,8	5 650,7	7 993,8	7 785,8	6 512,5
J	3 424,2	4 234,7	4 038,6	5 613,8	7 977,9	7 278,1	7 794,8
A	3 541,2	4 139,1	4 970,1	6 032,7	7 062,9	8 249,2	7 241,7
S	3 648,3	3 937,1	4 720,6	6 557,8	6 282,7	8 732,9	
0	3 550,7	4 273,1	4 087,8	6 330,3	7 198,2	8 973,4	
N	3 364,8	3 979,0	5 071,2	7 613,6	7 033,2	8 085,1	
D	3 680,5	4 042,6	4 928,3	6 963,8	7 972,7	7 330,2	

^{*} Revised

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

Actual value | Seasonally adjusted value | |-----| 2003 | 2002 | 2003 2002 |-----|----|-----|------|------| Aug. | Jul.* | Aug. | Aug. | Jul. | Aug. Total, gold included 137 416,7 9 484,4 10 570,2 11 617,7 9 587,4 10 826,8 11 658,7 96 030,3 7 024,1 7 545,9 8 049,4 7 241,7 7 794,8 8 249,2 Total, gold excluded 41 386,1 2 460,4 3 024,2 3 568,3 2 345,7 3 032,0 3 409,5 Gold. 437,7 271,1 327,8 431,1 276,2 322,3 89,4 91,0 90,1 85,5 92,7 127,5 134,6 188,3 134,7 157,3 192,8 71,5 167,0 186,0 84,1 Iron ore 5 108,8 1 101,2 Chrome 85,6 199,7 Copper 2 143,3 192,8 71,5 167,0 186,0 84,1 164,0 2 391,4 2 636,3 2 530,7 2 792,7 2 303,3 2 946,2 71,5 167,0 1 626,4 Manganese ore 34 828,7 Platinum 2 639,0 | 273,2 276,9 257,9 264,0 293,7 251,7 4 480,1 280,2 249,6 430,1 269,8 269,4 420,0 Nickel Other metallic minerals 28 558,2 2 207,2 2 316,2 2 604,3 2 012,1 2 459,1 2 382,0 Coal 266,6 283,9 43,5 55,6 283,0 292,0 289,2 Building materials 3 230,5 270,9 77,1 68,7 - Granite or norite 48,7 52,5 885,4 55,6 1 061,9 1 283,4 105,7 107,7 92,6 128,7 131,8 119,6 101,8 103,0 121,3 125,3 - Lime and limestone 89,1 89,1| | 113,1 - Other building materials Other non-metallic minerals | 12 313,4 | 908,1 1 150,2 1 060,7 | 954,1 1 529,0 1 091,4

^{*} Revised

Additional information

Explanatory notes

Introduction

- 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.
- 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 has been changed from 1995=100 to 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.
- 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

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

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

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

Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.

Historical data

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 January 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, January 1990 to November 2002, published on 11 February 2003 on the Stats SA website www.statssa.gov.za.

Related publications

- Users may also wish to refer to the following publications which are available from Stats SA -
 - Bulletin of Statistics.
 - SA Statistics.

Unpublished statistics

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

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 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.

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 production of a mineral group to the total

production 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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