

P3041.2

Manufacturing: production and sales

May 2002

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Key figures as at the end of May 2002

Actual estimates

	May 2002	% change between May 2001 and May 2002	% change between March to May 2001 and March 2002 to May 2002	% change between January 2001 to May 2001 and January 2002 to May 2002
Physical volume of manufacturing production index (1995=100)	115,9	+6,8	+6,7	+6,1
Total value of sales of manufactured Products (R million)	51 499,2	+25,3	+23,4	+21,6

Seasonally adjusted estimates

	May 2002	% change between April 2002 and May 2002	% change between December 2001 to February 2002 and March 2002 to May 2002
Physical volume of manufacturing production index (1995=100)	115,8	-2,9	+1,9
Total value of sales of manufactured Products (R million)	51 327,3	-3,3	+8,0

Key findings as at the end of May 2002

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the three months ended May 2002 reflected an increase of 1,9% after seasonal adjustment compared with the previous three months. Higher production was reported by 18 of the 27 manufacturing divisions.

The major contributor to the increase of 1,9% after seasonal adjustment in the total manufacturing production was the fabricated metal products division (contributing +0,7 of a percentage point to the increase in total manufacturing production), followed by the machinery and equipment (+0,5 of a percentage point), publishing and printing (+0,3 of a percentage point), paper and paper products (+0,2 of a percentage point), 'other' non-metallic mineral products (+0,2 of a percentage point), basic precious and non-ferrous metal products (+0,2 of a percentage point) and electrical machinery and apparatus (+0,2 of a percentage point) divisions (cf. table A).

SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products at current prices for the three months ended May 2002 reflected an increase of 8,0% (+R11 176 million) after seasonal adjustment compared with the previous three months. Higher manufacturing sales were reported by 23 of the 27 manufacturing divisions during this period. Furthermore, the actual total value of sales of manufactured products at current prices for the three months ended May 2002 reflected an increase of 23,4% (+R28 477 million) compared with the three months ended May 2001. Higher manufacturing sales were reported by 26 of the 27 manufacturing divisions during this period.

The increase of 8,0% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended May 2002 compared with the previous three months was mainly due to large increases reported by the machinery and equipment (+15,6% or +R902 million), coke and refined petroleum products (+12,9% or +R1 341 million), motor vehicles, trailers, parts and accessories (+12,4% or +R2 275 million), basic chemicals (+11,5% or +R829 million), fabricated metal products (+11,4% or +R854 million) and food and food products (+6,0% or +R1 132 million) divisions (cf. table B).

The major contributors to the increase of 23,4% in the actual value of sales of manufactured products at current prices for the three months ended May 2002 compared with the three months ended May 2001 were the motor vehicles, trailers, parts and accessories (+4,0 percentage points or +R4 847 million), food and food products (+2,9 percentage points or +R3 563 million), basic iron and steel products (+2,4 percentage points or +R2 916 million), coke and refined petroleum products (+1,8 percentage points or +R2 143 million), basic chemicals (+1,5 percentage points or +R1 868 million) and 'other' chemical products (+1,4 percentage points or +R1 742 million) divisions (cf. table C).

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Notes

Forthcoming issues	Issue	Expected release date
	June 2002	6 August 2002
	July 2002	10 September 2002
	August 2002	8 October 2002
	September 2002	12 November 2002
	October 2002	10 December 2002
	November 2002	7 January 2003
	December 2002	11 February 2003

Purpose of the survey The monthly Manufacturing Production and Sales Survey is a country-wide sample survey covering a sample of private establishments, public corporations and government establishments operating in the manufacturing industry in the South African economy. The results of this survey are used to calculate physical volume of manufacturing production indices in order to estimate the Gross Domestic Product (GDP) to monitor and develop government policy.

Additional information

Explanatory notes

Introduction

- 1** Statistics South Africa (Stats SA) conducts a monthly sample survey of the manufacturing industry covering private manufacturing establishments (branches), public corporations and government establishments. This statistical release contains detailed information regarding indices of the physical volume of manufacturing production, the total value of sales of manufactured products and unfilled orders, according to manufacturing divisions and major groups on a monthly basis.
- 2** In accordance to 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 since November 1997. Both actual and seasonally adjusted figures are presented.
- 3** 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 the future statistical release(s) as soon as more up-to-date information is available.

Scope of the survey

- 4** This survey covers manufacturing establishments conducting activities regarding -
 - the manufacturing, processing, making or packing of products;

- the slaughtering of animals, including poultry; and
- installation, assembly, completion, repair and related work.

Classification	5	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	6	The basic statistical unit for the collection of information is the manufacturing establishment. An establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (cf. paragraph 6).
Survey methodology and design	7	The calculation of the monthly production indices is based on the value of products and articles manufactured, after the effect of price changes has been eliminated through deflation by using appropriate sub-indices of the Production Price Index (PPI). The value of the manufactured products is obtained from a monthly sample survey of manufacturing establishments in the private and public sectors.
	8	The survey is collected by mail each month from a sample of approximately 2 330 manufacturing establishments.
	9	The above-mentioned measurement method in paragraph 7 was followed in 38 of the various major groups. On account of certain considerations more appropriate indicators were used for the seven remaining major groups namely grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, bodies for motor vehicles and 'other transport equipment'. The volume indices for the major groups grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products and bodies for motor vehicles are calculated on the basis of physical quantities. The major group tobacco products is included under 'Other' manufacturing industries. This method is also applied by other international statistical agencies for petroleum products due to the results being more satisfactory (mainly due to these commodities being relatively homogeneous and the nature of the industry). In the case of "other transport equipment" units such as ships and aircraft are completed over a relatively long period and establishments can often not report charges for work done continuously. The sales and charges for work done are only shown after completion of the product, which is not a true reflection of the real production for the month under

consideration. Therefore the index for "other transport equipment" is calculated monthly according to man-hours worked.

Sample design

- 10** The 1988 Census of Manufacturing provided the sampling frame for the selection of the monthly sample regarding manufacturing production and sales which was implemented as from January 1995. A stratified systematic sample design based on gross output was used. All statistical units were stratified by type of economic activity according to the Standard Industrial Classification of all Economic Activities (SIC) and measure of size, where measure of size was the total manufacturing gross output of the establishment. All large establishments (size category one cases) are completely enumerated. A sample was drawn from medium and small size establishments by systematically selecting establishments with equal probability.

Benchmarking

- 11** The index of physical volume of manufacturing production as well as the total value of sales of manufactured products should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities as measured by the monthly Manufacturing Production and Sales sample survey is based on information received from a sample of manufacturing establishments which is weighted according to the original sample design in order to represent the population of manufacturing establishments. It is necessary to adjust the level of activities as measured by the monthly sample survey to the level of activities as measured periodically by the Census of Manufacturing. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking. The results, due to benchmarking, were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.
- 12** The results of the 1991, 1993 and 1996 Censuses of Manufacturing and information obtained from the former TBVC states were used to adjust the level of the manufacturing production indices and the value of sales of manufactured products. The total value of output of the manufacturing major groups (which represents the total value of work done by the establishments in these major groups) as obtained from the manufacturing censuses, was deflated with appropriate sub-indices of the Production Price Index in order to calculate the real output. The latter served as benchmarks to verify or adjust the level of the monthly physical volume of manufacturing production indices. The level adjustments were done on the volume indices for January of the relevant census year (e.g. the 1996 census year covers the period 1 July 1995 to 30 June 1996 and therefore the benchmarking was done using the index of January 1996 as reference point). The motor vehicle major group is the only exception where the financial year for most of the establishments covered the period 1 January 1995 to 31 December 1995.

The benchmarking was done using the physical volume of manufacturing production index for July 1995 as reference point.

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|--|-----------|--|
| Production index for the total manufacturing industry | 13 | <p>In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined as follows:</p> <p>A weight is calculated for every major group according to the value added of the relevant major group compared with the value added to the total manufacturing industry based on the 1991, 1993 and 1996 Censuses of Manufacturing. Weights between census years are fixed and are based on the results of the most recent Census of Manufacturing. The production indices of all the major groups are multiplied by the applicable weights and aggregated to reflect the total physical volume of manufacturing production index.</p> |
| Seasonal adjustment | 14 | <p>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.</p> |
| Trend cycle | 15 | <p>The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.</p> |
| Reliability of estimates | 16 | <p>Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.</p> |
| Historical data | 17 | <p>More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups and the value of sales for the period January 1990 to September 1999 were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.</p> |
| Related publications | 18 | <p>Users may also wish to refer to the following publications which are available from Stats SA -</p> |

- P3041.3 - Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999.
- P3041.4 - Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.
- Bulletin of Statistics.
- SA Statistics.
- P0441 - Gross Domestic Product.

Unpublished statistics 19 In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as: computer printouts, diskette and CD. Generally a charge is made for providing unpublished statistics.

Rounding-off of figures 20 The figures in the tables have, where necessary, been rounded off to the nearest final digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.

Pre-release policy 21 Stats SA has adopted the confidential pre-release policy in respect of selected economic indicators and specific government departments. The policy accords with practice among leading statistical agencies. The statistical integrity of the indices and strict observance of the release time has been assured by the following procedure:
in respect of this statistical release, an official representative from the Office of the President, the Office of the Deputy President, the Department of Trade and Industry, the Department of Finance and the South African Reserve Bank receive a copy of the release on a strictly confidential basis two hours in advance of the public issue.

22 Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za.

Symbols and abbreviations

- GDP Gross Domestic Product
- ISIC International Standard Classification of all Economic Activities
- PPI Production Price Index
- SIC Standard Industrial Classification of all Economic Activities
- SNA System of National Accounts
- Stats SA Statistics South Africa
- TBVC states Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states
- 1/ Preliminary figures
- * Revised figures

Technical notes

Response rates The response rate for the survey on manufacturing production and sales for May 2002 is 77,8%. The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for May 2002

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	306	79,1
Beverages	65	87,7
Textile	111	86,5
Total wearing apparel	131	80,2
Tanning and dressing of leather	26	73,1
Footwear	21	71,4
Wood and products of wood	122	70,5
Paper and paper products	93	74,2
Total publishing and printing	89	75,3
Coke and refined petroleum products	30	76,7
Basic chemicals	78	88,5
Other chemical products	108	85,2
Rubber products	19	100,0
Plastic products	80	76,3
Glass and glass products	14	85,7
Other non-metallic mineral products	133	74,4
Basic iron and steel products	42	81,0
Basic precious and non-ferrous metal products	23	78,3
Fabricated metal products	230	77,8
Total machinery and equipment	181	71,3
Electrical machinery, apparatus	77	74,0
Radio, television and communication apparatus	23	73,9
Professional equipment	29	75,9
Motor vehicles; trailers; parts and accessories	115	72,2
Other transport equipment	35	77,1
Furniture	60	76,7
Other manufacturing industries	82	78,0
Total	2 323	77,8

Glossary

Enterprise	An enterprise (firm) is a legal entity consisting of one or more establishments. The establishments need not necessarily all be manufacturing establishments, but some may be classifiable as other industries of the economy, such as wholesale trade, retail trade, motor trade and construction.
Establishment	An establishment is defined as an enterprise (firm), 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.
Index of physical volume of manufacturing production	The index of physical volume of manufacturing 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 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 of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).
Intercensal period	Intercensal period is the period between January of the one census year and January of the next census year.
Intermediate consumption	Intermediate consumption includes - <ul style="list-style-type: none">• purchases and transfers-in of materials;• payments to other establishments for work done;• other direct factory costs;• rent and leasing paid;• head office charges;• royalties, copyright, trade names and patent rights paid;• advertising;• insurance premiums;• services; and• secretarial and administrative fees.
Output	Output is the aggregate value of goods manufactured and work done. Output includes - <ul style="list-style-type: none">• sales and transfers-out of own manufactures, factory waste and stocks of factored

- goods;
- repairs;
- installation, erection and assembly;
- sundry trading revenue;
- sales of factored goods minus purchases of factored goods;
- rent and leasing received;
- royalties received;
- difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods;
- head office charges; and
- other revenue.

Output excludes –

- excise and customs duty paid.

Value added

Value added is the value of output less intermediate consumption. It represents the value added to the cost of the materials used in the process of production.

Sales

Sales are the total value of sales and transfers-out of all own manufactured products/articles 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 value added of a major group (i.e. output of a major group minus intermediate consumption) to the total value added of the manufacturing industry. The weight of a major group reflects the importance of the major group in the total manufacturing industry. The weights change over time due to quality changes, changes in relative prices, and changes in preference, etc. New weights need to be calculated from time to time.

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Table A - Contribution of the production by the different manufacturing divisions to the total manufacturing production (Base 1995=100)

Manufacturing Divisions	Percentage contribution to the total manufacturing production in the base year 1995 (Weights)	Average seasonally adjusted production index for the three months March 2002 to May 2002	Quarterly percentage change (March 2002 to May 2002 compared with the preceding three months)	Contribution ((percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and food products	10,7	104,4	-1,7	-0,2
Beverages	4,6	105,4	+1,2	+0,0
Total textiles	2,9	108,3	+5,7	+0,1
Total wearing apparel	3,6	84,3	+2,1	+0,1
Tanning and dressing of leather	0,4	106,8	+6,9	+0,0
Footwear	0,9	50,6	-10,8	-0,1
Wood and products of wood	1,9	134,9	+5,0	+0,1
Paper and paper products	5,3	110,7	+3,7	+0,2
Total publishing and printing	4,1	85,1	+6,1	+0,3
Coke and refined petroleum products	4,2	107,8	-3,0	-0,1
Basic chemicals	4,5	152,2	+2,6	+0,1
Other chemical products	6,2	116,7	+1,7	+0,1
Rubber products	1,4	110,0	+1,3	+0,0
Plastic products	3,1	110,1	+2,5	+0,1
Glass and glass products	1,0	106,8	+0,1	+0,0
Other non-metallic mineral products	3,5	95,3	+4,6	+0,2
Basic iron and steel products	7,6	120,9	-5,0	-0,4
Basic precious and non-ferrous metal products	3,2	184,5	+5,9	+0,2
Fabricated metal products	7,0	123,2	+9,8	+0,7
Total machinery and equipment	5,8	118,0	+9,7	+0,5
Electrical machinery, apparatus	3,4	106,3	+4,7	+0,2
Radio, television and communication apparatus	1,0	105,8	+1,1	+0,0
Professional equipment	0,5	94,7	-1,1	-0,0
Motor vehicles; trailers; parts and accessories	8,0	138,1	-0,7	-0,1
Other transport equipment	1,0	122,7	-1,7	-0,0
Furniture	1,6	104,3	-0,8	-0,0
Other manufacturing divisions	2,6	120,9	-2,7	-0,1
Total	100,0	115,8	+1,9	+1,9

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

Table 1 - Indices of the physical volume of manufacturing production: Total

Base 1995 = 100							
Month	1996	1997	1998	1999	2000	2001*	2002
Actual indices							
J	83,6	89,8	89,6	86,7	88,8	94,7	99,1*
F	96,7	103,1	101,1	98,0	103,2	105,9	111,6*
M	102,6	102,5	102,7	101,4	109,0	111,8	115,0*
A	96,4	105,5	96,3	94,8	93,2	100,7	111,6
M	104,1	106,2	101,1	101,1	106,5	108,5	115,9 1/
J	102,9	104,9	104,5	100,5	110,4	113,7	
J	104,7	108,2	104,4	104,3	107,2	109,1	
A	107,8	105,8	99,9	103,5	108,5	108,3	
S	105,2	108,2	106,8	107,0	112,4	111,7	
O	115,8	119,1	111,7	112,9	117,0	123,4	
N	114,4	111,7	109,8	115,5	120,7	125,0	
D	83,7	86,9	85,3	90,5	94,7	97,6	
Year	101,5	104,3	101,1	101,4	106,0	109,2	
Seasonally adjusted indices							
J	99,0	105,4	104,6	100,5	102,0	108,8	113,7
F	98,7	105,2	102,9	99,8	105,0	107,6	113,5
M	99,4	100,2	100,7	99,5	106,7	109,5	112,4
A	102,0	111,1	101,5	100,0	98,8	107,0	119,2
M	103,9	105,4	100,2	100,6	105,9	108,1	115,8
J	101,6	103,3	102,6	98,4	107,7	110,7	
J	102,5	105,7	102,0	102,1	105,1	107,0	
A	104,7	103,2	97,9	101,9	107,0	107,0	
S	100,2	103,2	102,1	102,5	107,9	107,2	
O	103,4	106,4	100,4	101,8	106,0	111,9	
N	103,0	100,8	99,0	104,0	108,4	111,9	
D	98,7	102,0	100,0	106,1	110,6	113,6	

* Revised

1/ Preliminary

Table 2 - Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups

Base 1995 = 100

Manufacturing divisions and major groups	Weights	Year 2001	Actual indices			Seasonally adjusted indices					
			2001	May	April	May 1/	May	April	May		
				2001		2002		2001		2002	
				2001	2002	2001	2002				
Food and food products	10,7	104,4	103,8	99,8	104,1	102,5	105,8	103,3			
Meat, fish, fruit etc.	2,8	119,8	114,7	125,9	125,4	113,8	124,3	124,4			
Dairy products	1,4	90,9	82,0	78,9	86,5	89,6	90,1	95,0			
Grain mill products	2,1	99,8	102,6	102,5	105,8	98,9	106,6	101,7			
Other food products	4,4	100,9	104,2	88,3	95,0	100,9	98,3	93,1			
Beverages	4,6	97,2	82,7	87,0	97,1	91,5	102,5	108,2			
Total textiles	2,9	96,4	103,4	107,0	117,8	96,8	111,6	110,0			
Textiles	1,7	86,3	93,6	94,0	104,2	88,0	95,3	97,7			
Other textile products	1,2	110,8	117,3	125,3	137,1	109,2	134,7	127,3			
Total wearing apparel	3,6	78,9	77,7	84,5	86,8	78,6	89,0	87,5			
Knitted, crocheted articles	0,6	76,5	93,1	79,6	100,2	79,6	83,2	84,9			
Wearing apparel	3,0	79,4	74,6	85,5	84,1	78,4	90,2	88,0			
Tanning and dressing of leather	0,4	114,8	122,5	119,5	106,3	117,4	112,2	102,1			
Footwear	0,9	53,9	54,1	51,7	50,0	55,6	55,6	51,2			
Wood and products of wood	1,9	120,8	120,5	135,1	141,8	118,5	136,8	139,0			
Sawmilling and planing of wood	0,8	101,5	101,7	121,3	122,9	102,8	121,5	123,9			
Products of wood	1,2	133,4	132,9	144,2	154,2	128,9	146,9	148,9			
Paper and paper products	5,3	103,5	109,3	108,2	106,8	106,9	114,9	104,4			
Total publishing and printing	4,1	83,8	83,7	83,3	84,7	84,4	88,0	85,6			
Publishing	1,5	96,2	92,3	90,8	95,3	95,7	95,1	99,0			
Printing, recorded media	2,6	76,8	78,8	79,1	78,7	78,0	83,9	78,1			
Coke and refined petroleum products	4,2	104,6	91,4	103,6	107,9	92,8	104,2	109,7			
Basic chemicals	4,5	140,3	138,2	139,3	139,5	146,3	155,6	146,8			
Other chemical products	6,2	105,3	100,7	114,7	114,9	104,0	117,9	119,0			
Rubber products	1,4	99,3	117,6	100,5	119,3	107,0	107,6	107,7			
Plastic products	3,1	97,0	98,0	108,6	115,9	99,3	116,2	117,2			
Glass and glass products	1,0	98,9	89,6	104,2	100,1	98,6	106,4	110,5			
Other non-metallic mineral products	3,5	91,3	93,9	89,8	100,3	91,7	96,9	97,8			
Basic iron and steel products	7,6	115,3	111,2	121,0	124,7	106,6	122,2	119,9			
Basic precious and non-ferrous metal products	3,2	166,5	184,7	171,3	184,5	181,1	189,0	180,5			
Fabricated metal products	7,0	110,8	109,3	118,1	126,2	107,6	126,2	124,0			
Structural metal products	2,4	100,8	96,2	100,2	111,3	93,0	110,9	107,1			
Other fabricated metal product	4,6	116,1	116,0	127,3	133,9	115,1	134,1	132,7			
Total machinery and equipment	5,8	108,7	99,9	110,7	109,0	103,0	126,1	113,3			
General purpose machinery	2,5	112,3	106,4	117,4	118,9	105,2	116,7	119,4			
Special purpose machinery	2,9	104,3	92,5	102,7	95,7	99,7	132,1	103,5			
Household appliances	0,4	118,8	113,3	126,5	144,5	113,2	142,5	146,1			
Electrical machinery, apparatus	3,4	102,7	103,8	105,2	107,8	104,9	110,6	108,6			
Radio, television and communication apparatus	1,0	110,2	98,6	107,1	98,8	101,6	111,1	104,3			
Professional equipment	0,5	89,4	83,2	93,2	98,5	82,7	96,0	97,9			
Motor vehicles; trailers; parts and accessories	8,0	138,6	144,9	138,8	143,1	139,7	145,7	138,4			
Motor vehicles	4,5	127,6	129,2	120,8	128,3	124,7	132,3	124,7			
Bodies for motor vehicles; trailers and semi-trailers	0,5	66,7	82,3	61,8	73,3	71,6	55,9	62,6			
Parts and accessories	3,0	168,5	179,8	180,0	178,0	174,7	182,2	172,9			
Other transport equipment	1,0	117,6	117,2	119,6	126,2	110,2	116,7	119,0			
Furniture	1,6	98,3	103,7	97,0	105,7	103,6	105,9	105,4			
Other manufacturing divisions	2,6	110,6	113,1	117,5	125,6	112,0	146,6	124,7			
Total	100,0	109,2	108,5	111,6	115,9	108,1	119,2	115,8			

* Revised

1/ Preliminary

Table 3 - Value of sales of the manufacturing industry: Total (R'000)

Month	1996	1997	1998	1999	2000	2001*	2002
Actual values							
J	21 803 249	25 254 480	25 913 926	26 407 920	28 621 209	34 009 981	40 290 004*
F	26 328 500	29 866 793	29 901 544	30 601 551	35 186 255	39 197 755	46 604 497*
M	28 188 286	29 866 272	32 190 538	32 784 131	38 040 757	42 665 998	49 154 177*
A	26 231 967	30 438 604	29 758 879	30 497 742	32 690 714	37 831 816	49 435 836
M	28 293 052	30 626 091	30 352 835	32 731 846	37 021 372	41 114 135	51 499 213 1/
J	28 261 416	30 575 542	31 723 893	33 108 598	38 681 362	42 683 893	
J	28 378 392	31 169 707	31 732 667	33 319 382	36 233 450	41 087 369	
A	29 568 761	31 400 042	30 810 619	33 643 307	38 976 084	41 119 149	
S	29 549 724	31 344 644	32 896 327	35 776 740	39 929 861	42 303 621	
O	33 070 022	35 902 602	34 970 472	37 452 163	41 768 066	48 560 138	
N	33 084 713	33 709 581	34 300 610	38 913 647	43 875 904	49 395 982	
D	26 338 721	28 128 922	29 016 347	33 052 001	37 237 335	42 007 926	
Year	339 096 803	368 283 280	373 568 657	398 289 028	448 262 369	501 977 763	
Seasonally adjusted values							
J	26 395 504	30 493 569	31 047 350	31 453 311	33 843 349	39 829 770	47 399 844
F	26 816 931	30 511 253	30 611 346	31 402 795	36 006 360	40 134 546	47 741 714
M	26 890 962	28 713 135	30 960 479	31 576 397	36 447 250	40 887 855	47 123 778
A	27 724 391	32 107 750	31 495 746	32 357 367	34 761 215	40 321 993	53 083 216
M	28 435 036	30 703 541	30 380 148	32 779 921	36 930 091	40 960 242	51 327 324
J	28 029 622	30 209 582	31 249 206	32 551 750	37 819 274	41 664 804	
J	28 369 721	31 159 594	31 833 921	33 501 662	36 568 699	41 572 570	
A	28 807 112	30 743 201	30 345 541	33 254 014	38 589 674	40 697 078	
S	28 358 184	30 154 325	31 762 266	34 672 144	38 722 440	41 120 986	
O	29 575 036	32 172 285	31 383 309	33 817 722	38 028 248	44 366 705	
N	29 745 522	30 336 956	30 824 970	34 942 721	39 534 842	44 339 034	
D	29 282 294	30 839 663	31 478 481	35 909 195	40 381 758	45 216 652	

* Revised

1/ Preliminary

Table 4 - Value of sales of manufactured products according to manufacturing divisions and major groups (R'000)

Manufacturing divisions and major groups	Year	Actual values			Seasonally adjusted values		
		May	April	May 1/	May	April	May
		2001	2002		2001	2002	
Food and food products	67 324 864	5 569 439	6 359 207	6 998 260	5 460 770	6 502 776	6 842 151
Meat, fish, fruit etc.	20 191 117	1 647 440	2 024 811	2 109 253	1 587 223	2 042 455	2 032 594
Dairy products	7 941 251	644 118	717 127	746 548	667 552	790 304	778 823
Grain mill products	17 569 435	1 508 027	1 906 153	2 074 516	1 425 849	1 954 840	1 954 243
Other food products	21 623 061	1 769 854	1 711 116	2 067 943	1 780 146	1 715 177	2 076 491
Beverages	23 706 465	1 657 936	1 869 022	1 966 858	1 880 214	2 133 322	2 251 370
Total textiles	11 022 124	940 940	1 124 383	1 236 352	879 721	1 171 240	1 161 146
Textiles	6 965 073	605 371	710 651	800 287	562 970	729 285	744 640
Other textile products	4 057 051	335 569	413 732	436 065	316 751	441 955	416 506
Total wearing apparel	10 957 867	877 145	1 061 627	1 020 692	911 083	1 046 117	1 053 707
Knitted, crocheted articles	1 846 405	178 838	188 002	217 685	154 998	181 380	187 836
Wearing apparel	9 111 462	698 307	873 625	803 007	756 085	864 737	865 871
Tanning and dressing of leather	2 724 417	265 149	274 190	234 516	229 540	265 321	201 966
Footwear	1 974 373	170 796	170 826	175 822	169 202	178 792	172 673
Wood and products of wood	10 174 337	840 731	1 089 588	1 097 855	825 568	1 138 577	1 077 519
Sawmilling and planing of wood	2 760 863	233 068	299 728	305 941	228 384	317 931	299 279
Products of wood	7 413 474	607 663	789 860	791 914	597 184	820 646	778 240
Paper and paper products	25 164 997	2 182 470	2 452 723	2 391 442	2 096 927	2 687 301	2 287 013
Total publishing and printing	12 318 990	983 070	1 153 671	1 163 087	1 001 650	1 218 654	1 186 755
Publishing	5 137 601	385 483	449 029	457 281	399 755	455 938	474 529
Printing, recorded media	7 181 389	597 587	704 642	705 806	601 895	762 716	712 226
Coke and refined petroleum products	37 699 329	3 102 491	3 946 811	3 968 718	3 184 163	4 043 179	4 076 054
Basic chemicals	25 202 064	2 061 628	2 528 874	2 549 402	2 159 858	2 737 716	2 670 876
Other chemical products	29 537 288	2 295 059	2 922 274	2 982 581	2 364 637	3 043 753	3 093 142
Rubber products	5 324 083	454 588	515 391	582 128	434 378	561 208	554 442
Plastic products	12 330 216	1 029 049	1 201 171	1 282 164	1 024 372	1 303 584	1 273 519
Glass and glass products	2 841 584	202 205	241 159	250 736	223 609	267 849	277 532
Other non-metallic mineral products	11 334 191	958 846	1 058 879	1 160 879	933 570	1 133 498	1 127 951
Basic iron and steel products	35 607 441	2 901 986	3 789 844	3 899 800	2 786 324	3 891 597	3 736 240
Basic precious and non-ferrous metal products	17 972 477	1 520 998	1 932 872	1 701 473	1 467 675	2 141 677	1 648 157
Fabricated metal products	27 712 544	2 191 359	2 729 155	2 926 024	2 213 863	2 919 018	2 948 155
Structural metal products	9 132 860	683 045	827 182	931 669	675 831	828 052	914 140
Other fabricated metal product	18 579 684	1 508 314	1 901 973	1 994 355	1 538 032	2 090 965	2 034 014
Total machinery and equipment	21 651 027	1 787 598	2 039 819	2 225 168	1 788 950	2 419 149	2 215 397
General purpose machinery	9 233 530	816 938	874 642	1 072 096	778 519	986 646	1 021 630
Special purpose machinery	10 085 479	789 319	945 426	894 785	828 898	1 183 167	932 227
Household appliances	2 332 018	181 341	219 751	258 287	181 533	249 336	261 540
Electrical machinery, apparatus	13 981 876	1 140 537	1 281 416	1 420 422	1 135 131	1 379 184	1 417 651
Radio, television and communication apparatus	3 634 854	212 875	338 294	324 025	234 463	392 474	363 941
Professional equipment	1 631 276	133 679	153 884	178 872	131 671	166 159	175 439
Motor vehicles; trailers; parts and accessories	65 043 901	5 407 430	6 945 894	7 330 473	5 225 360	7 810 929	7 112 603
Motor vehicles	45 822 893	3 698 565	4 947 914	5 153 637	3 595 685	5 733 981	5 034 521
Bodies for motor vehicles; trailers and semi-trailers	1 620 464	171 663	167 898	194 943	149 472	169 169	167 451
Parts and accessories	17 600 544	1 537 202	1 830 082	1 981 893	1 480 203	1 907 779	1 910 631
Other transport equipment	3 129 665	248 836	271 966	323 551	277 357	360 262	358 399
Furniture	6 227 972	549 967	558 247	603 612	546 164	621 325	597 118
Other manufacturing divisions	15 747 541	1 427 328	1 424 649	1 504 301	1 374 022	1 548 555	1 446 410
Total	501 977 763	41 114 135	49 435 836	51 499 213	40 960 242	53 083 216	51 327 324

* Revised

1/ Preliminary

Table 5 - Value of unfilled orders according to selected manufacturing subgroups (R'000)

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	May	April	May 1/	May	April	May
	2001	2002		2001	2002	
Spinning, weaving and finishing of textiles	238 849	281 255	301 379	227 692	273 567	286 087
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	27 363	33 096	35 603	28 085	34 973	36 461
Other textile articles	51 467	69 246	64 878	55 094	68 612	70 037
Knitted and crocheted fabrics and articles	96 560	140 067	140 222	99 727	140 789	145 617
Wearing apparel	641 091	816 270	840 623	640 334	804 700	842 512
Sawmilling and preserving of timber	18 283	22 787	23 641	19 017	22 750	24 700
Veneer sheets, plywood, laminboard, etc.	32 937	23 835	22 319	31 696	22 931	21 489
Builders' carpentry and joinery	37 902	35 743	36 801	39 595	39 432	38 496
Pulp, paper and paperboard	274 855	222 702	198 742	299 873	266 096	217 232
Corrugated paper and paper-board and containers	391 554	310 631	316 453	411 434	327 347	333 143
Paints, varnishes and coatings	26 610	19 300	18 199	30 754	22 672	20 844
Basic iron and steel products	3 086 678	4 205 324	4 654 713	3 163 808	4 139 739	4 777 047
Steel pipe and tube mills	207 125	563 558	589 195	194 837	565 445	547 063
Basic precious and non-ferrous metal products	1 787 199	1 883 487	1 864 319	1 705 190	1 818 766	1 774 009
Metal structures, parts	1 402 468	1 286 994	1 389 158	1 305 394	1 266 926	1 288 870
Cutlery, hand tools and general hardware	20 326	24 306	23 230	21 826	23 208	24 887
Metal containers, e.g. cans and tins	84 811	67 231	66 639	85 910	69 164	67 090
Cables, wire products, springs	70 744	57 985	58 747	67 778	57 701	56 379
Metal fasteners	59 360	66 159	72 573	60 091	68 897	73 620
All other metal products	572 504	862 292	852 708	573 352	843 905	854 837
Domestic appliances	30 578	25 591	26 289	29 951	27 096	25 764
Electric motors, generators and transformers	366 254	449 172	437 209	370 843	462 675	443 696
Insulated wire and cables	333 177	315 343	354 521	345 439	309 294	370 309
Accumulators, primary cells and primary batteries	11 602	9 693	9 226	11 071	8 896	8 829
Television, radio and communication apparatus	2 055 572	2 149 546	2 294 041	1 875 528	2 011 827	2 083 282
Motor vehicles	2 234 640	2 434 552	2 674 839	2 070 217	2 307 092	2 491 080
Parts and accessories for motor vehicles	325 985	569 455	517 695	309 834	569 597	493 811
Furniture	237 116	315 866	303 433	277 547	375 092	354 114

* Revised

Table C - Contribution of the manufacturing divisions to total value of sales of manufactured products

Manufacturing	Percentage contribution to total value of sales of manufactured products March 2001 to May 2001	Percentage change between March 2001 to May 2001 and March 2002 to May 2002	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions between March 2001 to May 2001 and March 2002 to May 2002
				R'000
Food and food products	13,4	21,9	2,9	3 562 675
Beverages	4,4	13,5	0,6	725 550
Total textiles	2,3	26,5	0,6	729 820
Total Wearing apparel	2,3	12,4	0,3	346 024
Tanning and dressing of leather	0,6	-5,5	-0,0	-43 380
Footwear	0,4	3,3	0,0	16 238
Wood and products of wood	2,0	33,3	0,7	805 435
Paper and paper products	5,1	19,2	1,0	1 189 362
Total publishing and printing	2,4	16,3	0,4	477 586
Coke and refined petroleum products	7,5	23,5	1,8	2 143 442
Basic chemicals	4,6	33,1	1,5	1 867 664
Other chemical products	5,9	24,4	1,4	1 742 423
Rubber products	1,1	29,4	0,3	388 725
Plastic products	2,5	22,6	0,5	679 847
Glass and glass products	0,5	17,7	0,1	110 498
Other non-metallic mineral products	2,3	19,2	0,4	533 012
Basic iron and steel products	7,0	34,3	2,4	2 916 364
Basic precious and non-ferrous metal products	3,6	20,0	0,7	887 613
Fabricated metal products	5,7	20,5	1,2	1 415 017
Total machinery and equipment	4,4	24,1	1,1	1 303 306
Electrical machinery, apparatus	2,9	21,0	0,6	728 756
Radio, television and communication apparatus	0,7	32,2	0,2	259 764
Professional equipment	0,3	25,8	0,1	101 534
Motor vehicles; trailers; parts and accessories	13,1	30,5	4,0	4 847 011
Other transport equipment	0,7	26,2	0,2	217 156
Furniture	1,2	17,0	0,2	249 859
Other manufacturing divisions	3,1	7,2	0,2	275 976
Total	100,0	23,4	23,4	28 477 277

1/ The contribution (percentage points) is calculated by multiplying the percentage change of each manufacturing division with the percentage contribution of the same divisions during corresponding period, divided by 100.

Table B - Contribution of the manufacturing divisions to the total value of seasonally adjusted sales of manufactured products

Manufacturing Divisions	Seasonally adjusted sales March 2002 to May 2002	Percentage change between December 2001 to February 2002 and March 2002 to May 2002	Difference in seasonally adjusted sales of manufacturing divisions between December 2001 to February 2002 and March 2002 to May 2002
	R'000		R'000
Food and food products	19 932 969	+6,0	1 132 102
Beverages	6 538 025	+7,1	435 792
Total textiles	3 366 997	+12,0	361 339
Total Wearing apparel	3 019 366	+1,4	40 236
Tanning and dressing of leather	677 512	+1,1	7 277
Footwear	506 997	-4,6	-24 269
Wood and products of wood	3 210 011	+11,8	338 923
Paper and paper products	7 372 906	+5,3	370 182
Total publishing and printing	3 471 267	+11,0	344 477
Coke and refined petroleum products	11 757 259	+12,9	1 341 153
Basic chemicals	8 014 903	+11,5	828 932
Other chemical products	8 941 907	+6,3	533 412
Rubber products	1 674 114	+11,5	172 832
Plastic products	3 691 955	+4,8	167 514
Glass and glass products	808 977	+0,2	1 874
Other non-metallic mineral products	3 298 662	+7,9	240 757
Basic iron and steel products	11 171 985	+1,7	183 468
Basic precious and non-ferrous metal products	5 418 546	-2,3	-129 949
Fabricated metal products	8 350 702	+11,4	854 247
Total machinery and equipment	6 676 666	+15,6	902 491
Electrical machinery, apparatus	4 201 779	+10,7	404 884
Radio, television and communication apparatus	1 095 037	+9,4	93 912
Professional equipment	499 819	-0,5	-2 526
Motor vehicles; trailers; parts and accessories	20 668 541	+12,4	2 274 522
Other transport equipment	1 034 190	+24,9	206 282
Furniture	1 811 474	+5,7	97 273
Other manufacturing industries	4 321 755	-0,0	-1 026
Total	151 534 318	+8,0	11 176 109