

P3041.2

**Manufacturing: production and
sales**

April 2002

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Key figures as at the end of April 2002

Actual estimates		April 2002	% change between April 2001 and April 2002	% change between February to April 2001 and February 2002 to April 2002	% change between January 2001 to April 2001 and January 2002 to April 2002
volume of manufacturing index of sales of manufactured	Physical production (1995=100)	113,3	+12,5	+7,3	+6,8
	Total value of products (R million)	49 260,4	+30,3	+21,2	+20,6

Seasonally adjusted estimates		April 2002	% change between March 2002 and April 2002	% change between November 2001 to January 2002 and February 2002 to April 2002
volume of manufacturing index of sales of manufactured	Physical production (1995=100)	121,1	+6,4	+2,5
	Total value of products (R million)	52 823,8	+12,4	+7,6

Key findings as at the end of April 2002

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the three months ended April 2002 reflected an increase of 2,5% 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 2,5% after seasonal adjustment in the total manufacturing production was the fabricated metal products division (contributing +0,6 of a percentage point to the increase in total manufacturing production), followed by the paper and paper products (+0,5 of a percentage point), basic chemicals (+0,4 of a percentage point), beverage (+0,3 of a percentage point), 'other' chemical products (+0,3 of a percentage point), basic precious and non-ferrous metal products (+0,3 of a percentage point) and 'other' manufacturing industries (+0,3 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 April 2002 reflected an increase of 7,6% (+R10 479 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 April 2002 reflected an increase of 21,2% (+R25 342 million) compared with the three months ended April 2001. Higher manufacturing sales were reported by 26 of the 27 manufacturing divisions during this period.

The increase of 7,6% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended April 2002 compared with the previous three months was mainly due to large increases reported by the coke and refined petroleum products (+16,3% or +R1 598 million), machinery and equipment (+13,8% or +R779 million), basic chemicals (+12,9% or +R894 million), paper and paper products (+12,3% or +R826 million), motor vehicles, trailers, parts and accessories (+9,8% or +R1 770 million) and food and food products (+4,0% or +R739 million) divisions (cf. table B).

The major contributors to the increase of 21,2% in the actual value of sales of manufactured products at current prices for the three months ended April 2002 compared with the three months ended April 2001 were the motor vehicles, trailers, parts and accessories (+3,5 percentage points or +R4 206 million), basic iron and steel products (+2,4 percentage points or +R2 836 million), food and food products (+2,2 percentage points or +R2 606 million), coke and refined petroleum products (+1,5 percentage points or +R1 849 million), basic chemicals (+1,5 percentage points or +R1 777 million) and 'other' chemical products (+1,4 percentage points or +R1 644 million) divisions (cf. table C).

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Notes

Forthcoming issues	Issue	Expected release date
	May 2002	9 July 2002
	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 (April) 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.

Production index for the total manufacturing industry

13 In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined as follows:

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.

- Seasonal adjustment** 14 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.
- Trend cycle** 15 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.
- Reliability of estimates** 16 Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.
- Historical data** 17 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.
- Related publications** 18 Users may also wish to refer to the following publications which are available from Stats SA -
- 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 April 2002 is 82,8%. The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for April 2002

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	309	82,5
Beverages	67	88,1
Textile	113	85,0
Total wearing apparel	132	85,6
Tanning and dressing of leather	25	96,0
Footwear	21	90,5
Wood and products of wood	119	79,0
Paper and paper products	92	78,3
Total publishing and printing	89	71,9
Coke and refined petroleum products	30	76,7
Basic chemicals	78	93,6
Other chemical products	108	89,8
Rubber products	19	100,0
Plastic products	82	80,5
Glass and glass products	14	92,9
Other non-metallic mineral products	133	80,5
Basic iron and steel products	42	81,0
Basic precious and non-ferrous metal products	24	83,3
Fabricated metal products	231	79,7
Total machinery and equipment	184	79,9
Electrical machinery, apparatus	75	86,7
Radio, television and communication apparatus	21	81,0
Professional equipment	26	76,9
Motor vehicles; trailers; parts and accessories	115	84,3
Other transport equipment	36	91,7
Furniture	60	80,0
Other manufacturing industries	82	81,7
Total	2 327	82,8

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 February 2002 to April 2002	Quarterly percentage change (February 2002 to April 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	-2,7	-0,3
Beverages	4,6	106,3	+6,6	+0,3
Total textiles	2,9	105,5	+1,9	+0,1
Total wearing apparel	3,6	83,8	+3,8	+0,1
Tanning and dressing of leather	0,4	103,1	+0,8	+0,0
Footwear	0,9	50,1	-11,5	-0,1
Wood and products of wood	1,9	130,6	+2,3	+0,1
Paper and paper products	5,3	113,5	+8,7	+0,5
Total publishing and printing	4,1	84,0	+3,3	+0,1
Coke and refined petroleum products	4,2	106,2	-5,1	-0,2
Basic chemicals	4,5	160,9	+8,4	+0,4
Other chemical products	6,2	117,6	+4,8	+0,3
Rubber products	1,4	112,6	+7,0	+0,1
Plastic products	3,1	105,4	-0,2	-0,0
Glass and glass products	1,0	103,8	+0,3	+0,0
Other non-metallic mineral products	3,5	92,3	+1,3	+0,1
Basic iron and steel products	7,6	120,2	-4,5	-0,3
Basic precious and non-ferrous metal products	3,2	184,2	+8,2	+0,3
Fabricated metal products	7,0	121,8	+9,0	+0,6
Total machinery and equipment	5,8	114,8	+3,5	+0,2
Electrical machinery, apparatus	3,4	101,9	-1,8	-0,0
Radio, television and communication apparatus	1,0	103,3	-8,5	-0,1
Professional equipment	0,5	93,4	-2,7	-0,0
Motor vehicles; trailers; parts and accessories	8,0	148,2	+1,5	+0,1
Other transport equipment	1,0	125,3	+0,9	+0,0
Furniture	1,6	103,8	-3,6	-0,1
Other manufacturing divisions	2,6	126,3	+10,0	+0,3
Total	100,0	116,3	+2,5	+2,5

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	99,5*
F	96,7	103,1	101,1	98,0	103,2	105,9	112,0*
M	102,6	102,5	102,7	101,4	109,0	111,8	116,5
A	96,4	105,5	96,3	94,8	93,2	100,7	113,3 1/
M	104,1	106,2	101,1	101,1	106,5	108,5	
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	108,6	
S	105,2	108,2	106,8	107,0	112,4	112,4	
O	115,8	119,1	111,7	112,9	117,0	124,2	
N	114,4	111,7	109,8	115,5	120,7	125,8	
D	83,7	86,9	85,3	90,5	94,7	97,6	

Year	101,5	104,3	101,1	101,4	106,0	109,4	

Seasonally adjusted indices							
J	99,0	105,4	104,6	100,5	102,0	108,8	114,3
F	98,6	105,1	102,9	99,9	105,0	107,8	114,1
M	99,4	100,2	100,7	99,4	106,6	109,3	113,8
A	102,1	111,1	101,6	100,1	98,9	107,1	121,1
M	103,9	105,3	100,1	100,3	105,7	107,9	
J	101,6	103,3	102,7	98,5	107,8	110,8	
J	102,5	105,7	102,0	102,1	105,1	107,0	
A	104,7	103,2	97,9	101,9	107,1	107,4	
S	100,2	103,2	102,1	102,5	107,8	107,9	
O	103,4	106,4	100,4	101,8	106,0	112,6	
N	103,0	100,8	99,0	104,0	108,4	112,5	
D	98,6	102,0	100,0	106,2	110,8	113,8	

* 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			
			April	March	April 1/	April	March	April	
			2001		2002		2001	2002	
Food and food products	10,7	104,4	99,5	96,8	100,5	105,6	103,9	106,5	
Meat, fish, fruit etc.	2,8	119,8	121,3	128,5	125,0	120,2	122,6	123,5	
Dairy products	1,4	90,9	82,0	91,5	82,8	92,1	89,2	92,9	
Grain mill products	2,1	99,8	91,3	106,1	104,7	95,1	106,4	109,0	
Other food products	4,4	100,9	94,7	73,7	88,3	105,5	95,2	98,7	
Beverages	4,6	97,2	88,0	113,4	87,0	103,7	105,3	102,4	
Total textiles	2,9	96,4	89,3	110,7	105,9	93,2	102,9	110,5	
Textiles	1,7	86,3	83,0	97,0	92,2	84,3	90,1	93,3	
Other textile products	1,2	110,8	98,2	130,0	125,3	105,9	121,1	134,7	
Total wearing apparel	3,6	78,9	73,1	86,2	84,4	76,7	76,2	88,9	
Knitted, crocheted articles	0,6	76,5	70,9	84,6	78,7	72,8	74,9	81,3	
Wearing apparel	3,0	79,4	73,6	86,5	85,5	77,5	76,4	90,4	
Tanning and dressing of leather	0,4	114,8	126,1	117,5	119,5	119,1	106,9	112,6	
Footwear	0,9	53,9	50,3	48,6	50,4	54,0	45,0	54,2	
Wood and products of wood	1,9	120,8	114,6	135,5	135,7	115,4	128,7	136,6	
Sawmilling and planing of wood	0,8	101,5	108,3	120,8	122,7	108,7	114,4	122,6	
Products of wood	1,2	133,4	118,7	145,1	144,2	119,8	138,1	145,9	
Paper and paper products	5,3	103,5	96,5	116,4	106,9	103,8	113,1	115,0	
Total publishing and printing	4,1	83,8	77,8	84,3	83,3	81,6	81,5	87,4	
Publishing	1,5	96,2	88,4	94,5	90,8	91,9	93,0	94,5	
Printing, recorded media	2,6	76,8	71,8	78,5	79,1	75,8	75,1	83,4	
Coke and refined petroleum products	4,2	104,6	110,5	107,3	103,6	110,8	109,3	104,7	
Basic chemicals	4,5	140,3	126,2	152,7	153,9	138,6	165,8	169,6	
Other chemical products	6,2	105,3	100,2	118,4	118,9	102,3	113,4	121,3	
Rubber products	1,4	99,3	73,8	126,5	99,3	79,2	114,9	107,9	
Plastic products	3,1	97,0	90,8	104,3	106,9	97,7	96,4	115,4	
Glass and glass products	1,0	98,9	96,8	99,2	101,9	99,8	103,4	104,6	
Other non-metallic mineral products	3,5	91,3	81,8	92,6	89,8	87,5	89,9	96,4	
Basic iron and steel products	7,6	115,3	104,9	123,2	120,1	105,9	120,5	121,6	
Basic precious and non-ferrous metal products	3,2	166,5	156,6	178,9	171,3	173,6	184,5	190,3	
Fabricated metal products	7,0	110,8	95,4	122,1	117,6	101,3	119,0	125,5	
Structural metal products	2,4	100,8	84,5	100,7	104,5	92,3	97,0	114,0	
Other fabricated metal product	4,6	116,1	101,0	133,1	124,4	106,0	130,2	131,4	
Total machinery and equipment	5,8	108,7	95,5	133,0	110,7	105,6	116,7	124,7	
General purpose machinery	2,5	112,3	115,1	127,9	117,4	114,2	118,2	116,8	
Special purpose machinery	2,9	104,3	78,2	137,9	102,7	97,6	113,9	129,3	
Household appliances	0,4	118,8	98,5	128,9	126,5	110,0	127,5	141,4	
Electrical machinery, apparatus	3,4	102,7	100,1	105,1	104,0	104,0	99,0	108,9	
Radio, television and communication apparatus	1,0	110,2	106,7	106,1	107,1	112,6	102,2	111,4	
Professional equipment	0,5	89,4	86,3	94,4	90,2	88,7	89,8	93,2	
Motor vehicles; trailers; parts and accessories	8,0	141,3	127,7	147,0	152,2	134,3	140,9	160,8	
Motor vehicles	4,5	127,6	110,5	120,4	120,8	122,7	114,1	135,8	
Bodies for motor vehicles; trailers and semi-trailers	0,5	66,7	86,2	65,8	61,8	76,6	53,8	54,4	
Parts and accessories	3,0	175,7	161,1	201,8	215,8	162,5	197,0	218,0	
Other transport equipment	1,0	117,6	119,1	128,5	119,6	114,2	131,8	115,1	
Furniture	1,6	98,3	78,1	99,2	97,0	89,2	101,6	112,3	
Other manufacturing divisions	2,6	110,6	88,2	93,5	116,7	109,1	91,4	146,9	
Total	100,0	109,4	100,7	116,5	113,3	107,1	113,8	121,1	

* 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	26 410 458	28 615 702	34 000 426	40 323 723*
F	26 328 500	29 866 793	29 901 544	30 607 558	35 182 383	39 179 281	46 640 934*
M	28 188 286	29 866 272	32 190 538	32 788 344	38 036 042	42 649 483	49 087 867
A	26 231 967	30 438 604	29 758 879	30 508 382	32 686 461	37 818 505	49 260 376 1/
M	28 293 052	30 626 091	30 352 835	32 737 449	37 013 710	41 099 956	
J	28 261 416	30 575 542	31 723 893	33 126 289	38 674 835	42 665 029	
J	28 378 392	31 169 707	31 732 667	33 429 319	36 229 087	41 054 895	
A	29 568 761	31 400 042	30 810 619	33 740 922	38 967 402	41 104 890	
S	29 549 724	31 344 644	32 896 327	35 884 855	39 923 901	42 296 307	
O	33 070 022	35 902 602	34 970 472	37 448 797	41 761 506	48 524 660	
N	33 084 713	33 709 581	34 300 610	38 909 651	43 868 608	49 371 757	
D	26 338 721	28 128 922	29 016 347	33 048 575	37 232 980	42 052 310	
Year	339 096 803	368 283 280	373 568 657	398 640 599	448 192 617	501 817 499	
Seasonally adjusted values							
J	26 407 833	30 512 813	31 073 107	31 490 204	33 868 564	39 853 109	47 497 865
F	26 814 233	30 505 718	30 604 628	31 404 364	35 988 073	40 098 543	47 759 656
M	26 889 039	28 710 074	30 957 492	31 569 319	36 411 319	40 818 481	47 006 508
A	27 723 008	32 105 628	31 482 356	32 335 922	34 713 225	40 214 078	52 823 775
M	28 439 648	30 712 155	30 392 858	32 788 597	37 027 114	41 086 570	
J	28 023 866	30 198 163	31 234 379	32 554 266	37 790 977	41 620 086	
J	28 367 507	31 157 685	31 836 033	33 617 192	36 574 892	41 553 846	
A	28 806 115	30 743 588	30 348 663	33 352 582	38 584 334	40 685 412	
S	28 352 418	30 143 856	31 747 700	34 769 579	38 698 053	41 091 563	
O	29 573 670	32 172 312	31 384 822	33 821 295	38 025 856	44 345 544	
N	29 751 368	30 345 053	30 836 089	34 950 603	39 539 708	44 338 982	
D	29 285 269	30 842 542	31 486 847	35 907 347	40 384 444	45 274 108	

* 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			
		2001	April	March	April 1/	2001	2002	April
			2002					
			2001	2002				
Food and food products	67 429 029	5 373 876	6 452 954	6 313 974	5 486 066	6 582 992	6 458 861	
Meat, fish, fruit etc.	20 191 117	1 545 212	2 089 043	2 014 550	1 561 181	2 088 441	2 038 380	
Dairy products	7 941 251	611 480	741 045	699 420	669 454	728 890	767 359	
Grain mill products	17 569 435	1 356 629	1 984 096	1 907 192	1 398 580	1 940 980	1 960 494	
Other food products	21 727 226	1 860 555	1 638 770	1 692 812	1 856 851	1 824 681	1 692 628	
Beverages	23 706 465	1 761 435	2 246 071	1 870 306	2 005 098	2 138 338	2 123 589	
Total textiles	11 024 005	833 759	1 129 647	1 107 370	856 915	1 033 571	1 148 021	
Textiles	6 965 073	532 937	732 081	695 244	544 621	655 117	711 580	
Other textile products	4 058 932	300 822	397 566	412 126	312 294	378 454	436 441	
Total wearing apparel	10 984 635	890 236	1 072 570	1 050 851	877 327	930 253	1 036 579	
Knitted, crocheted articles	1 846 405	145 900	173 511	184 392	140 109	146 881	177 710	
Wearing apparel	9 138 230	744 336	899 059	866 459	737 218	783 372	858 869	
Tanning and dressing of leather	2 724 417	233 850	232 200	274 190	221 821	214 164	260 223	
Footwear	1 974 373	155 802	165 421	167 910	165 390	155 235	176 569	
Wood and products of wood	10 174 337	771 312	1 041 117	1 084 053	805 078	990 975	1 130 959	
Sawmilling and planing of wood	2 760 863	223 222	292 286	298 288	236 646	274 506	315 153	
Products of wood	7 413 474	548 090	748 831	785 765	568 432	716 469	815 806	
Paper and paper products	25 164 997	1 822 401	2 550 308	2 424 355	1 999 392	2 406 440	2 655 115	
Total publishing and printing	12 318 990	915 041	1 083 467	1 151 865	962 859	1 059 892	1 217 825	
Publishing	5 137 601	373 867	443 503	449 029	381 611	439 446	458 373	
Printing, recorded media	7 181 389	541 174	639 964	702 836	581 248	620 446	759 452	
Coke and refined petroleum products	37 699 329	3 030 687	3 356 838	3 941 788	3 102 337	3 636 368	4 033 300	
Basic chemicals	25 095 683	1 851 208	2 440 954	2 544 665	2 003 503	2 626 108	2 759 303	
Other chemical products	29 346 729	2 311 965	2 965 203	3 014 515	2 387 475	2 780 554	3 128 363	
Rubber products	5 324 083	359 582	614 574	509 962	386 743	557 595	557 826	
Plastic products	12 330 216	903 416	1 216 506	1 182 990	974 464	1 130 714	1 281 709	
Glass and glass products	2 841 584	208 113	244 030	244 123	230 324	264 018	270 505	
Other non-metallic mineral products	11 334 191	837 089	1 067 280	1 050 722	886 827	1 022 556	1 118 172	
Basic iron and steel products	35 607 441	2 683 727	3 708 626	3 733 864	2 765 279	3 518 759	3 854 635	
Basic precious and non-ferrous metal products	17 972 477	1 313 080	1 684 379	1 932 872	1 460 148	1 617 193	2 154 299	
Fabricated metal products	27 716 406	2 289 186	2 681 476	2 721 214	2 305 729	2 477 569	2 848 615	
Structural metal products	9 136 722	988 548	776 626	862 469	877 941	687 837	794 543	
Other fabricated metal product	18 579 684	1 300 638	1 904 850	1 858 745	1 427 788	1 789 731	2 054 072	
Total machinery and equipment	21 651 027	1 472 388	2 469 306	2 024 258	1 714 224	2 041 951	2 384 666	
General purpose machinery	9 233 530	695 232	955 789	854 853	784 202	925 012	964 037	
Special purpose machinery	10 085 479	624 399	1 289 370	949 654	760 427	901 192	1 175 736	
Household appliances	2 332 018	152 757	224 147	219 751	169 596	215 747	244 894	
Electrical machinery, apparatus	13 981 876	1 059 770	1 467 041	1 314 593	1 126 762	1 370 050	1 412 943	
Radio, television and communication apparatus	3 634 854	212 918	393 547	331 809	250 980	332 914	389 994	
Professional equipment	1 631 276	123 406	161 874	148 699	132 050	157 462	160 343	
Motor vehicles; trailers; parts and accessories	65 043 901	4 508 813	6 475 136	6 869 000	4 980 416	5 728 543	7 722 319	
Motor vehicles	45 822 893	3 023 607	4 607 464	4 895 548	3 456 365	3 979 862	5 680 268	
Bodies for motor vehicles; trailers and semi-trailers	1 620 464	121 460	176 761	165 200	121 075	148 156	165 334	
Parts and accessories	17 600 544	1 363 746	1 690 911	1 808 252	1 402 976	1 600 525	1 876 717	
Other transport equipment	3 129 665	189 889	450 546	271 966	247 662	313 217	356 743	
Furniture	6 227 972	443 908	555 881	562 790	491 724	592 890	626 974	
Other manufacturing divisions	15 747 541	1 261 648	1 160 915	1 415 672	1 387 485	1 326 187	1 555 324	
Total	501 817 499	37 818 505	49 087 867	49 260 376	40 214 078	47 006 508	52 823 775	

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	April	March	April 1/	April	March	April
	2001	2002		2001	2002	
Spinning, weaving and finishing of textiles	214 898	281 955	283 693	208 051	271 707	274 300
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	28 770	36 566	31 560	29 687	34 173	32 762
Other textile articles	58 981	67 334	68 875	58 187	63 468	68 213
Knitted and crocheted fabrics and articles	96 788	131 919	140 067	98 325	134 103	142 304
Wearing apparel	680 255	800 109	842 860	669 281	782 973	827 486
Sawmilling and preserving of timber	18 301	20 622	22 787	18 354	19 596	22 943
Veneer sheets, plywood, laminboard, etc.	24 972	22 063	23 835	23 876	22 211	22 989
Builders' carpentry and joinery	40 148	38 692	35 743	44 784	44 538	39 918
Pulp, paper and paperboard	478 864	238 674	222 702	517 141	282 728	243 536
Corrugated paper and paperboard and containers	379 159	309 780	310 631	397 824	321 959	327 711
Paints, varnishes and coatings	27 403	18 999	19 300	33 440	21 376	22 774
Basic iron and steel products	2 918 321	3 579 395	4 276 372	2 877 343	3 595 694	4 215 336
Steel pipe and tube mills	188 706	236 356	480 316	186 842	259 469	474 144
Basic precious and non-ferrous metal products	1 723 079	1 718 658	1 883 487	1 681 982	1 758 477	1 829 730
Metal structures, parts	1 310 219	1 227 680	1 291 705	1 289 101	1 261 161	1 273 979
Cutlery, hand tools and general hardware	24 835	29 180	24 306	23 741	31 162	23 089
Metal containers, e.g. cans and tins	89 399	74 127	67 231	92 479	72 062	69 657
Cables, wire products, springs	66 291	56 374	57 985	66 627	53 806	58 409
Metal fasteners	56 730	70 120	66 159	57 887	70 031	67 848
All other metal products	572 634	766 781	862 292	555 379	771 977	833 407
Domestic appliances	23 458	26 222	25 591	24 857	27 893	27 203
Electric motors, generators and transformers	358 668	403 147	439 403	370 002	410 233	454 670
Insulated wire and cables	333 999	305 718	315 343	323 928	290 493	307 401
Accumulators, primary cells and primary batteries	16 285	9 723	9 693	14 979	9 078	8 866
Television, radio and communication apparatus	2 075 747	2 239 943	2 135 629	1 962 132	2 104 957	2 004 881
Motor vehicles	2 183 930	2 337 071	2 434 552	2 044 411	2 304 091	2 289 382
Parts and accessories for motor vehicles	349 720	433 984	599 008	335 527	445 322	571 907
Furniture	209 313	318 035	318 847	245 002	350 436	379 773

* 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 February 2001 to April 2001	Percentage change between February 2001 to April 2001 and February 2002 to April 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 February 2001 to April 2001 and February 2002 to April 2002
				R'000
Food and food products	13,3	16,4	2,2	2 606 092
Beverages	4,6	9,4	0,4	521 446
Total textiles	2,3	20,8	0,5	560 708
Total Wearing apparel	2,3	13,3	0,3	362 322
Tanning and dressing of leather	0,6	-2,8	-0,0	-21 187
Footwear	0,4	5,5	0,0	26 200
Wood and products of wood	2,0	29,5	0,6	697 419
Paper and paper products	5,0	22,7	1,1	1 346 174
Total publishing and printing	2,4	14,1	0,3	402 869
Coke and refined petroleum products	7,5	20,6	1,5	1 848 815
Basic chemicals	4,7	31,5	1,5	1 777 400
Other chemical products	5,9	23,4	1,4	1 643 684
Rubber products	1,1	28,0	0,3	370 663
Plastic products	2,4	22,4	0,5	657 491
Glass and glass products	0,5	13,8	0,1	89 832
Other non-metallic mineral products	2,2	15,6	0,4	419 241
Basic iron and steel products	6,9	34,4	2,4	2 835 855
Basic precious and non-ferrous metal products	3,5	21,7	0,8	902 860
Fabricated metal products	5,7	18,1	1,0	1 230 500
Total machinery and equipment	4,3	24,6	1,1	1 274 858
Electrical machinery, apparatus	2,9	17,3	0,5	605 004
Radio, television and communication apparatus	0,8	12,5	0,1	124 040
Professional equipment	0,3	20,8	0,1	81 897
Motor vehicles; trailers; parts and accessories	13,2	26,7	3,5	4 205 867
Other transport equipment	0,7	25,2	0,2	207 842
Furniture	1,2	19,3	0,2	268 006
Other manufacturing divisions	3,3	7,5	0,2	296 010
Total	100,0	21,2	21,2	25 341 908

1/ The contribution (percentage points) is calculated by multiplying the percentage change of each manufacturing division with the percentage contribution of the same division 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 February 2002 to April 2002	Percentage change between November 2001 to January 2002 and February 2002 to April 2002	Difference in seasonally adjusted sales of manufacturing divisions between November 2001 to January 2002 and February 2002 to April 2002
	R'000		R'000
Food and food products	19 249 196	+4,0	739 498
Beverages	6 391 235	+6,2	372 605
Total textiles	3 216 672	+6,8	206 127
Total Wearing apparel	2 966 767	-1,2	-35 311
Tanning and dressing of leather	696 746	+6,8	44 500
Footwear	506 642	-4,0	-20 977
Wood and products of wood	3 083 357	+8,0	229 198
Paper and paper products	7 520 912	+12,3	825 622
Total publishing and printing	3 344 960	+6,0	189 946
Coke and refined petroleum products	11 380 028	+16,3	1 597 671
Basic chemicals	7 844 473	+12,9	893 586
Other chemical products	8 727 806	+5,2	431 751
Rubber products	1 639 455	+11,5	169 552
Plastic products	3 610 279	+4,9	169 108
Glass and glass products	792 660	+1,0	7 494
Other non-metallic mineral products	3 172 918	+5,8	173 852
Basic iron and steel products	11 095 487	+5,0	530 773
Basic precious and non-ferrous metal products	5 348 562	-1,0	-53 521
Fabricated metal products	7 951 431	+7,5	555 345
Total machinery and equipment	6 427 693	+13,8	778 872
Electrical machinery, apparatus	4 078 103	+9,7	360 389
Radio, television and communication apparatus	1 077 387	+7,0	70 540
Professional equipment	478 601	-0,7	-3 597
Motor vehicles; trailers; parts and accessories	19 826 995	+9,8	1 769 976
Other transport equipment	965 252	+17,1	140 996
Furniture	1 799 361	+5,8	97 948
Other manufacturing industries	4 396 963	+5,7	237 043
Total	147 589 939	+7,6	10 478 984