



# Manufacturing: production and sales

June 2002

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### Key figures as at the end of June 2002

<b>Actual estimates</b>		<b>June 2002</b>	<b>% change between June 2001 and June 2002</b>	<b>% change between April 2001 to June 2001 and April 2002 to June 2002</b>	<b>% change between January 2001 to June 2001 and January 2002 to June 2002</b>
of	Physical volume				
	manufacturing production index (1995=100)	112,5	-0,1	+5,3	+4,5
sales	Total value of				
	of manufactured products (R million)	50 242,7	+17,6	+24,6	+21,2

<b>Seasonally adjusted estimates</b>		<b>June 2002</b>	<b>% change between May 2002 and June 2002</b>	<b>% change between January 2002 to March 2002 and April 2002 to June 2002</b>
	Physical volume of manufacturing production index (1995=100)	111,1	-3,7	+1,7
	Total value of sales of manufactured products (R million)	49 101,6	-4,3	+7,7

### Key findings as at the end of June 2002

#### MANUFACTURING PRODUCTION INCREASES

*Manufacturing production for the second quarter of 2002 reflected an increase of 1,7% after seasonal adjustment compared with the first quarter of 2002. Higher production was reported by 16 of the 27 manufacturing divisions. Furthermore, total manufacturing production for the first six months of 2002 increased by 4,5% compared with the first six months of 2001.*

The major contributor to the increase of 1,7% after seasonal adjustment in the total manufacturing production was the machinery and equipment division (contributing +0,5 of a percentage point to the increase in total manufacturing production), followed by the plastic products (+0,3 of a percentage point), fabricated metal products (+0,3 of a percentage point), electrical machinery and apparatus (+0,3 of a percentage point), wearing apparel (+0,2 of a percentage point), wood and products of wood (+0,2 of a percentage point), 'other' non-metallic mineral products (+0,2 of a percentage point) and 'other' manufacturing industries (+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 second quarter of 2002 reflected an increase of 7,7% (+R11 050 million) after seasonal adjustment compared with the first quarter of 2002. Higher manufacturing sales were reported by all 27 manufacturing divisions during this period. Furthermore, the actual total value of sales of manufactured products at current prices for the second quarter of 2002 reflected an increase of 24,6% (+R29 909 million) compared with the second quarter of 2001. Higher manufacturing sales were reported by all 27 manufacturing divisions during this period.*

The increase of 7,7% after seasonal adjustment in the total value of sales of manufactured products at current prices for the second quarter of 2002 compared with the first quarter of 2002 was mainly due to large increases reported by the machinery and equipment (+15,9% or +R959 million), motor vehicles, trailers, parts and accessories (+12,1% or +R2 220 million), fabricated metal products (+11,0% or +R854 million), coke and refined petroleum products (+9,2% or +R996 million), 'other' chemical products (+7,3% or +R616 million) and food and food products (+5,6% or +R1 086 million) divisions (cf. table B).

The major contributors to the increase of 24,6% in the actual value of sales of manufactured products at current prices for the second quarter of 2002 compared with the second quarter of 2001 were the motor vehicles, trailers, parts and accessories (+3,8 percentage points or +R4 576 million), food and food products (+3,4 percentage points or +R4 181 million), basic iron and steel products (+2,6 percentage points or +R3 204 million), coke and refined petroleum products (+2,1 percentage points or +R2 551 million), 'other' chemical products (+1,4 percentage points or +R1 745 million), basic chemicals (+1,3 percentage points or +R1 550 million), machinery and equipment (+1,3 percentage points or +R1 596 million) and fabricated metal products (+1,2 percentage points or +R1 478 million) divisions (cf. table C).

### Contents

	<b>Page</b>
<b>Notes</b> .....	7
<b>Tables</b>	
Table 1 Indices of the physical volume of manufacturing production: Total .....	8
Table 2 Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups .....	9
Table 3 Value of sales of the manufacturing industry: Total (R'000) .....	10
Table 4 Value of sales of manufactured products according to manufacturing divisions and major groups (R'000) .....	11
Table 5 Value of unfilled orders according to selected manufacturing subgroups (R'000) .....	12
<b>Additional information</b>	
Explanatory notes .....	13
Technical notes .....	17
Glossary .....	18
<b>For more information</b> .....	20

## Notes

<b>Forthcoming issues</b>	<b>Issue</b>	<b>Expected release date</b>
	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 (June) 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.

<b>Production index for the total manufacturing industry</b>	<b>13</b>	<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>
<b>Seasonal adjustment</b>	<b>14</b>	<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>
<b>Trend cycle</b>	<b>15</b>	<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>
<b>Reliability of estimates</b>	<b>16</b>	<p>Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.</p>
<b>Historical data</b>	<b>17</b>	<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 <b>Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999</b>) on 21 December 1999 and P3041.4 (entitled <b>Manufacturing statistics: Value of sales, January 1990 to September 1999</b>) on 8 December 1999.</p>
<b>Related publications</b>	<b>18</b>	<p>Users may also wish to refer to the following publications which are available from Stats SA -</p> <ul style="list-style-type: none"> <li>• P3041.3 - Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999.</li> <li>• P3041.4 - Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.</li> <li>• Bulletin of Statistics.</li> <li>• SA Statistics.</li> <li>• P0441 - Gross Domestic Product.</li> </ul>

**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](http://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 June 2002 is 79,1%. The response rates by manufacturing major division are tabulated in table D.

**Table D - Response rates for June 2002**

<b>Manufacturing major divisions</b>	<b>Sample No. of establishments</b>	<b>% response</b>
Food and food products	306	78,4
Beverages	65	93,8
Textile	111	86,5
Total wearing apparel	131	87,8
Tanning and dressing of leather	26	88,5
Footwear	21	81,0
Wood and products of wood	123	69,1
Paper and paper products	93	74,2
Total publishing and printing	89	65,2
Coke and refined petroleum products	30	73,3
Basic chemicals	78	80,8
Other chemical products	108	87,0
Rubber products	19	94,7
Plastic products	88	81,8
Glass and glass products	14	85,7
Other non-metallic mineral products	133	75,9
Basic iron and steel products	42	83,3
Basic precious and non-ferrous metal products	23	82,6
Fabricated metal products	230	78,7
Total machinery and equipment	181	80,7
Electrical machinery, apparatus	77	70,1
Radio, television and communication apparatus	23	69,6
Professional equipment	29	65,5
Motor vehicles; trailers; parts and accessories	115	82,6
Other transport equipment	35	82,9
Furniture	60	66,7
Other manufacturing industries	82	79,3
<b>Total</b>	<b>2 332</b>	<b>79,1</b>



## **Glossary**

<b>Enterprise</b>	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.
<b>Establishment</b>	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.
<b>Index of physical volume of manufacturing production</b>	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.
<b>Industry</b>	An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the 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).
<b>Intercensal period</b>	Intercensal period is the period between January of the one census year and January of the next census year.
<b>Intermediate consumption</b>	Intermediate consumption includes - <ul style="list-style-type: none"><li>• purchases and transfers-in of materials;</li><li>• payments to other establishments for work done;</li><li>• other direct factory costs;</li><li>• rent and leasing paid;</li><li>• head office charges;</li><li>• royalties, copyright, trade names and patent rights paid;</li><li>• advertising;</li><li>• insurance premiums;</li><li>• services; and</li><li>• secretarial and administrative fees.</li></ul>
<b>Output</b>	Output is the aggregate value of goods manufactured and work done.  Output includes - <ul style="list-style-type: none"><li>• sales and transfers-out of own manufactures, factory waste and stocks of factored goods;</li><li>• repairs;</li><li>• installation, erection and assembly;</li><li>• sundry trading revenue;</li><li>• sales of factored goods minus purchases of factored goods;</li><li>• rent and leasing received;</li><li>• royalties received;</li><li>• difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods;</li><li>• head office charges; and</li><li>• other revenue.</li></ul> 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 April 2002 to June 2002	Quarterly percentage change (April 2002 to June 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	102,3	-0,4	-0,1
Beverages	4,6	105,4	-0,0	-0,0
Total textiles	2,9	106,9	+3,9	+0,1
Total wearing apparel	3,6	85,7	+5,9	+0,2
Tanning and dressing of leather	0,4	124,0	+9,5	+0,0
Footwear	0,9	50,7	-2,9	-0,0
Wood and products of wood	1,9	136,5	+8,7	+0,2
Paper and paper products	5,3	109,5	-0,9	-0,1
Total publishing and printing	4,1	85,4	+3,3	+0,1
Coke and refined petroleum products	4,2	107,3	-0,8	-0,0
Basic chemicals	4,5	149,2	-2,4	-0,1
Other chemical products	6,2	115,8	+0,6	+0,0
Rubber products	1,4	104,7	-10,4	-0,1
Plastic products	3,1	116,1	+9,5	+0,3
Glass and glass products	1,0	108,9	+3,3	+0,0
Other non-metallic mineral products	3,5	94,0	+4,4	+0,2
Basic iron and steel products	7,6	114,8	-2,7	-0,2
Basic precious and non-ferrous metal products	3,2	178,6	-1,2	-0,0
Fabricated metal products	7,0	122,7	+4,0	+0,3
Total machinery and equipment	5,8	118,3	+7,9	+0,5
Electrical machinery, apparatus	3,4	110,3	+9,4	+0,3
Radio, television and communication apparatus	1,0	101,4	+2,5	+0,0
Professional equipment	0,5	99,6	+7,2	+0,0
Motor vehicles; trailers; parts and accessories	8,0	134,6	+1,0	+0,1
Other transport equipment	1,0	122,1	-4,5	-0,1
Furniture	1,6	100,0	-3,1	-0,1
Other manufacturing divisions	2,6	126,9	+9,4	+0,2
<b>Total</b>	<b>100,0</b>	<b>114,8</b>	<b>+1,7</b>	<b>+1,7</b>

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	88,0	89,7	95,9	99,7*
F	96,7	103,1	101,1	98,3	103,7	107,1	111,8*
M	102,6	102,5	102,7	102,2	109,5	112,3	115,6*
A	96,4	105,5	96,3	95,2	93,9	101,2	110,7*
M	104,1	106,2	101,1	100,7	106,4	108,3	115,9
J	102,9	104,9	104,5	100,0	109,5	112,6	112,5 1/
J	104,7	108,2	104,4	103,6	105,8	108,4	
A	107,8	105,8	99,9	102,7	107,9	107,3	
S	105,2	108,2	106,8	106,1	111,5	110,6	
O	115,8	119,1	111,7	112,6	116,8	123,3	
N	114,4	111,7	109,8	115,6	120,8	124,5	
D	83,7	86,9	85,3	91,3	95,8	98,4	
Year	101,5	104,3	101,1	101,4	105,9	109,2	
Seasonally adjusted indices							
J	98,9	105,2	104,1	101,3	102,2	108,9	113,2
F	98,7	105,1	102,8	100,0	105,3	108,8	113,2
M	99,1	99,9	100,4	99,8	106,7	109,2	112,2
A	102,0	110,9	101,2	100,1	99,1	107,0	117,8
M	103,9	105,4	100,2	100,2	105,7	107,6	115,4
J	101,6	103,5	103,0	98,7	107,9	111,0	111,1
J	102,7	106,0	102,5	102,0	104,5	107,1	
A	104,8	103,4	98,2	101,5	107,1	106,7	
S	100,3	103,4	102,5	102,2	107,6	107,0	
O	103,4	106,5	100,5	101,6	106,0	112,0	
N	103,1	100,8	99,1	104,1	108,6	111,6	
D	98,4	101,5	99,3	106,1	110,7	113,3	

\* Revised

1/ Preliminary

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

Manufacturing divisions and major groups	Weights	Year	Actual indices			Seasonally adjusted indices			
			2001	June	May	June 1/	June	May	June
				2001	2002	2002	2001	2002	2002
Food and food products	10,7	104,1	101,6	104,5	104,9	100,9	104,2	104,0	
Meat, fish, fruit etc.	2,8	119,8	122,5	125,4	127,1	125,8	126,1	129,6	
Dairy products	1,4	90,9	83,9	87,8	81,8	91,8	95,6	89,3	
Grain mill products	2,1	99,8	101,5	105,8	101,2	100,3	101,4	99,8	
Other food products	4,4	100,1	93,7	95,6	99,5	88,1	94,2	94,1	
Beverages	4,6	97,2	91,3	97,5	96,8	99,7	108,4	104,9	
Total textiles	2,9	96,4	104,4	116,4	105,8	99,6	108,1	100,9	
Textiles	1,7	86,3	93,8	104,2	93,4	89,0	97,1	88,3	
Other textile products	1,2	110,8	119,5	133,8	123,4	114,6	123,7	118,6	
Total wearing apparel	3,6	78,9	78,3	86,7	72,2	88,3	86,7	81,5	
Knitted, crocheted articles	0,6	76,5	89,0	99,6	79,9	87,9	84,0	79,0	
Wearing apparel	3,0	79,4	76,2	84,1	70,7	88,4	87,3	82,0	
Tanning and dressing of leather	0,4	114,8	130,4	139,6	113,8	132,8	127,5	116,5	
Footwear	0,9	53,9	55,0	50,0	45,2	55,4	50,5	45,6	
Wood and products of wood	1,9	120,8	123,3	145,3	132,3	121,4	141,0	130,2	
Sawmilling and planing of wood	0,8	101,5	109,3	127,5	117,9	107,9	126,4	116,5	
Products of wood	1,2	133,4	132,5	157,0	141,8	130,3	150,6	139,2	
Paper and paper products	5,3	103,5	107,7	107,1	111,4	105,1	104,4	109,5	
Total publishing and printing	4,1	83,8	82,2	83,9	80,8	84,4	85,3	83,0	
Publishing	1,5	96,2	96,4	91,8	86,9	97,2	95,8	87,9	
Printing, recorded media	2,6	76,8	74,2	79,5	77,3	77,1	79,4	80,3	
Coke and refined petroleum products	4,2	104,6	92,4	107,9	106,9	93,5	109,8	108,2	
Basic chemicals	4,5	140,3	142,9	139,5	142,7	146,7	145,9	146,9	
Other chemical products	6,2	105,3	102,5	114,9	108,6	105,0	118,5	111,4	
Rubber products	1,4	99,3	100,4	119,3	99,7	101,0	106,8	101,6	
Plastic products	3,1	97,0	93,8	116,5	112,4	95,5	117,6	114,9	
Glass and glass products	1,0	98,9	100,5	100,1	110,4	99,4	110,6	109,4	
Other non-metallic mineral products	3,5	91,3	100,1	100,7	91,8	92,5	98,4	84,8	
Basic iron and steel products	7,6	115,3	116,3	116,0	124,5	110,1	112,4	118,1	
Basic precious and non-ferrous metal products	3,2	166,5	184,9	185,4	176,1	178,1	179,2	169,0	
Fabricated metal products	7,0	110,8	122,1	125,3	119,9	121,7	122,9	119,6	
Structural metal products	2,4	100,8	123,0	108,6	104,3	122,7	104,7	104,9	
Other fabricated metal product	4,6	116,1	121,6	133,9	127,9	121,1	132,2	127,1	
Total machinery and equipment	5,8	108,7	122,3	114,5	118,4	115,5	117,8	111,5	
General purpose machinery	2,5	112,3	130,7	127,7	121,1	117,0	125,5	109,0	
Special purpose machinery	2,9	104,3	112,8	98,7	114,1	112,8	107,1	112,7	
Household appliances	0,4	118,8	138,4	146,6	133,2	124,9	146,8	119,1	
Electrical machinery, apparatus	3,4	102,7	110,7	112,6	111,6	105,5	112,8	106,1	
Radio, television and communication apparatus	1,0	110,2	102,3	98,8	87,7	105,3	102,4	91,7	
Professional equipment	0,5	89,4	83,1	98,5	105,0	81,3	98,8	103,4	
Motor vehicles; trailers; parts and accessories	8,0	138,6	153,3	142,7	127,8	143,5	137,2	120,3	
Motor vehicles	4,5	127,6	145,0	128,3	115,2	129,6	124,3	103,2	
Bodies for motor vehicles; trailers and semi-trailers	0,5	66,7	54,2	67,9	47,8	60,4	58,8	54,2	
Parts and accessories	3,0	168,5	183,8	178,0	161,4	179,5	171,1	158,0	
Other transport equipment	1,0	117,6	111,0	126,2	131,3	110,8	120,7	130,8	
Furniture	1,6	98,3	104,1	100,8	96,9	100,3	100,9	93,4	
Other manufacturing divisions	2,6	110,6	117,1	126,8	116,1	112,6	123,9	111,1	
Total	100,0	109,2	112,6	115,9	112,5	111,0	115,4	111,1	

\* 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	26 407 920	28 621 209	33 990 423	40 357 085*
F	26 328 500	29 866 793	29 901 544	30 601 551	34 987 260	39 178 897	46 654 095*
M	28 188 286	29 866 272	32 190 538	32 784 131	38 040 757	42 669 917	49 317 539*
A	26 231 967	30 438 604	29 758 879	30 497 742	32 690 714	37 816 329	49 616 597*
M	28 293 052	30 626 091	30 352 835	32 731 846	37 021 372	41 123 596	51 700 730
J	28 261 416	30 575 542	31 723 893	33 108 598	38 681 362	42 711 319	50 242 659 1/
J	28 378 392	31 169 707	31 732 667	33 319 382	36 233 450	41 187 998	
A	29 568 761	31 400 042	30 810 619	33 643 307	38 976 084	41 146 669	
S	29 549 724	31 344 644	32 896 327	35 776 740	39 929 861	42 335 566	
O	33 070 022	35 902 602	34 970 472	37 452 163	41 768 066	48 590 022	
N	33 084 713	33 709 581	34 300 610	38 913 647	43 875 904	49 484 251	
D	26 338 721	28 128 922	29 016 347	33 052 001	37 237 335	42 254 325	
Year	339 096 803	368 283 280	373 568 657	398 289 028	448 063 374	502 489 312	
Seasonally adjusted values							
J	26 396 065	30 495 316	31 051 021	31 460 616	33 863 494	39 838 847	47 531 097
F	26 820 449	30 516 977	30 620 443	31 415 578	35 844 674	40 142 061	47 827 082
M	26 887 319	28 707 627	30 956 654	31 570 009	36 447 558	40 887 951	47 253 825
A	27 724 264	32 105 821	31 492 531	32 346 011	34 746 158	40 277 501	53 248 581
M	28 438 758	30 704 288	30 378 803	32 747 273	36 853 028	40 824 806	51 311 629
J	28 038 959	30 233 130	31 272 912	32 621 799	37 879 405	41 762 535	49 101 571
J	28 364 106	31 146 996	31 811 828	33 463 433	36 520 344	41 619 632	
A	28 810 597	30 745 666	30 344 528	33 238 887	38 572 305	40 700 073	
S	28 363 138	30 157 901	31 764 845	34 667 858	38 720 909	41 152 062	
O	29 574 334	32 169 398	31 374 491	33 804 115	38 026 585	44 394 023	
N	29 745 279	30 334 352	30 816 993	34 923 578	39 522 181	44 405 867	
D	29 267 673	30 829 521	31 488 702	35 946 724	40 458 105	45 578 672	

\* 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		
		June	May	June 1/	June	May	June
		2001	2002		2001	2002	
		2001	2002	2002	2001	2002	2002
Food and food products	67 324 864	5 432 113	7 054 467	7 124 848	5 379 294	6 905 645	7 049 557
Meat, fish, fruit etc.	20 191 117	1 667 500	2 112 271	2 185 293	1 671 614	2 049 176	2 184 320
Dairy products	7 941 251	627 602	775 687	700 215	675 032	802 259	749 607
Grain mill products	17 569 435	1 443 079	2 085 136	2 041 537	1 416 296	1 961 028	2 002 019
Other food products	21 623 061	1 693 932	2 081 373	2 197 803	1 616 352	2 093 182	2 113 611
Beverages	23 706 465	1 824 847	1 970 410	2 017 702	2 034 799	2 266 115	2 232 692
Total textiles	11 022 124	1 035 394	1 235 425	1 159 552	967 546	1 149 887	1 082 457
Textiles	6 965 073	658 124	800 529	746 037	626 405	736 304	711 019
Other textile products	4 057 051	377 270	434 896	413 515	341 141	413 583	371 438
Total wearing apparel	10 957 867	864 417	1 036 031	877 777	959 075	1 071 539	971 771
Knitted, crocheted articles	1 846 405	179 214	216 227	185 299	160 506	187 414	165 304
Wearing apparel	9 111 462	685 203	819 804	692 478	798 569	884 125	806 467
Tanning and dressing of leather	2 803 508	267 552	286 482	275 911	250 586	247 612	256 094
Footwear	1 974 373	171 630	180 870	151 585	177 383	174 920	156 537
Wood and products of wood	10 174 337	873 964	1 117 994	1 029 182	851 892	1 082 535	1 003 873
Sawmilling and planing of wood	2 760 863	238 783	315 445	290 214	227 163	306 193	275 947
Products of wood	7 413 474	635 181	802 549	738 968	624 729	776 342	727 926
Paper and paper products	25 164 997	2 173 723	2 401 275	2 545 193	2 087 533	2 293 149	2 444 832
Total publishing and printing	12 318 990	976 759	1 152 220	1 107 870	1 025 420	1 173 749	1 165 410
Publishing	5 137 601	408 406	440 116	440 182	420 488	458 786	455 247
Printing, recorded media	7 181 389	568 353	712 104	667 688	604 932	714 963	710 163
Coke and refined petroleum products	37 699 329	3 117 180	3 973 657	3 880 936	3 018 223	4 035 847	3 762 885
Basic chemicals	25 202 064	2 035 370	2 535 816	2 434 043	2 098 733	2 632 771	2 520 281
Other chemical products	29 537 288	2 367 515	2 976 838	2 838 852	2 433 081	3 068 110	2 928 250
Rubber products	5 324 083	466 342	582 128	521 545	445 337	547 998	499 257
Plastic products	12 330 216	1 025 689	1 289 375	1 261 626	1 025 292	1 280 216	1 260 122
Glass and glass products	2 841 584	234 828	250 736	258 235	242 454	276 714	266 152
Other non-metallic mineral products	11 334 191	1 019 072	1 179 159	1 066 355	964 679	1 135 160	1 008 965
Basic iron and steel products	35 607 441	2 950 855	3 897 341	4 053 854	2 756 166	3 736 067	3 803 738
Basic precious and non-ferrous metal products	17 972 477	1 675 177	1 691 391	1 845 693	1 514 844	1 636 409	1 654 970
Fabricated metal products	27 712 544	2 443 977	2 922 675	2 743 999	2 433 465	2 919 350	2 751 513
Structural metal products	9 132 860	884 221	932 636	843 597	852 803	906 876	827 835
Other fabricated metal product	18 579 684	1 559 756	1 990 039	1 900 402	1 580 662	2 012 474	1 923 679
Total machinery and equipment	21 839 183	1 890 040	2 210 076	2 470 296	1 790 915	2 237 548	2 339 830
General purpose machinery	9 421 686	738 806	1 025 201	1 037 283	699 725	997 957	992 334
Special purpose machinery	10 085 479	917 556	922 822	1 202 578	863 577	979 704	1 122 930
Household appliances	2 332 018	233 678	262 053	230 435	227 613	259 887	224 566
Electrical machinery, apparatus	13 981 876	1 249 610	1 501 958	1 428 311	1 209 966	1 481 268	1 376 835
Radio, television and communication apparatus	3 634 854	340 255	324 025	419 907	305 129	365 528	381 322
Professional equipment	1 631 276	128 236	179 091	180 587	116 093	174 782	163 328
Motor vehicles; trailers; parts and accessories	65 043 901	5 938 011	7 280 943	6 195 149	5 563 794	7 004 464	5 787 971
Motor vehicles	45 822 893	4 203 320	5 196 697	4 357 845	3 834 652	5 037 159	3 958 063
Bodies for motor vehicles; trailers and semi-trailers	1 620 464	130 875	195 384	147 781	135 321	164 790	154 790
Parts and accessories	17 600 544	1 603 816	1 888 862	1 689 523	1 593 822	1 802 515	1 675 118
Other transport equipment	3 373 967	291 800	365 813	380 547	252 772	390 677	336 543
Furniture	6 227 972	542 446	586 427	562 574	544 756	577 035	562 638
Other manufacturing divisions	15 747 541	1 374 517	1 518 107	1 410 530	1 313 308	1 446 535	1 333 747
Total	502 489 312	42 711 319	51 700 730	50 242 659	41 762 535	51 311 629	49 101 571

\* Revised  
1/ Preliminary



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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	June	May	June 1/	June	May	June
	2001	2002		2001	2002	
Spinning, weaving and finishing of textiles	233 261	299 570	302 465	225 794	283 817	292 752
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	27 022	35 603	31 501	31 297	36 580	36 467
Other textile articles	48 182	64 878	56 368	48 941	68 610	58 433
Knitted and crocheted fabrics and articles	104 376	140 222	140 956	110 099	145 924	148 584
Wearing apparel	638 282	839 995	803 922	664 067	841 123	836 535
Sawmilling and preserving of timber	18 216	23 641	24 934	19 009	24 787	26 069
Veneer sheets, plywood, laminboard, etc.	29 579	22 319	24 214	29 187	22 426	23 734
Builders' carpentry and joinery	37 237	35 146	36 745	37 370	36 916	37 191
Pulp, paper and paperboard	307 229	198 742	151 350	297 811	218 044	145 761
Corrugated paper and paperboard and containers	372 398	319 782	323 904	393 594	336 044	342 177
Paints, varnishes and coatings	23 530	19 703	20 624	26 597	22 514	22 950
Basic iron and steel products	3 225 081	4 654 713	4 957 356	3 266 843	4 746 489	5 013 675
Steel pipe and tube mills	148 574	592 706	576 255	162 439	551 131	629 193
Basic precious and non-ferrous metal products	1 792 256	1 864 319	1 883 015	1 646 780	1 765 868	1 735 492
Metal structures, parts	1 610 943	1 389 158	1 450 922	1 478 994	1 315 085	1 320 836
Cutlery, hand tools and general hardware	17 818	18 672	29 185	19 426	19 599	32 200
Metal containers, e.g. cans and tins	85 410	66 639	66 473	81 866	66 815	63 566
Cables, wire products, springs	71 100	58 747	63 452	66 153	56 858	58 607
Metal fasteners	62 802	72 573	71 860	64 929	74 121	74 182
All other metal products	607 880	855 833	833 203	602 102	861 738	830 436
Domestic appliances	29 154	26 289	33 822	28 590	26 508	33 244
Electric motors, generators and transformers	389 192	426 604	441 731	361 200	427 077	409 484
Insulated wire and cables	417 074	381 091	387 156	394 372	399 816	363 542
Accumulators, primary cells and primary batteries	12 351	9 226	5 446	12 071	8 686	5 373
Television, radio and communication apparatus	1 999 445	2 483 561	2 389 826	1 870 408	2 237 937	2 236 071
Motor vehicles	2 084 000	2 674 839	2 620 086	2 132 656	2 521 482	2 677 118
Parts and accessories for motor vehicles	319 731	508 107	500 629	309 138	486 126	486 514
Furniture	197 143	298 742	259 655	219 340	344 659	291 165

\* 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 April 2001 to June 2001	Percentage change between April 2001 to June 2001 and April 2002 to June 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 April 2001 to June 2001 and April 2002 to June 2002
				R'000
Food and food products	13,5	25,5	3,4	4 180 693
Beverages	4,3	11,7	0,5	612 916
Total textiles	2,3	25,3	0,6	710 983
Total Wearing apparel	2,2	13,1	0,3	345 032
Tanning and dressing of leather	0,6	16,6	0,1	127 364
Footwear	0,4	0,7	0,0	3 513
Wood and products of wood	2,0	30,4	0,6	756 139
Paper and paper products	5,1	19,8	1,0	1 224 274
Total publishing and printing	2,4	18,6	0,4	535 307
Coke and refined petroleum products	7,6	27,6	2,1	2 551 046
Basic chemicals	4,9	26,0	1,3	1 550 326
Other chemical products	5,7	25,0	1,4	1 744 915
Rubber products	1,1	26,4	0,3	338 552
Plastic products	2,4	26,8	0,7	794 018
Glass and glass products	0,5	16,3	0,1	104 984
Other non-metallic mineral products	2,3	17,6	0,4	496 753
Basic iron and steel products	7,0	37,5	2,6	3 204 471
Basic precious and non-ferrous metal products	3,7	21,3	0,8	960 701
Fabricated metal products	5,7	21,3	1,2	1 478 075
Total machinery and equipment	4,2	31,2	1,3	1 596 021
Electrical machinery, apparatus	2,8	23,2	0,7	798 947
Radio, television and communication apparatus	0,6	41,3	0,3	316 178
Professional equipment	0,3	33,3	0,1	128 241
Motor vehicles; trailers; parts and accessories	13,0	28,9	3,8	4 576 299
Other transport equipment	0,6	36,5	0,2	278 047
Furniture	1,3	13,4	0,2	206 522
Other manufacturing divisions	3,3	7,1	0,2	288 425
Total	100,0	24,6	24,6	29 908 742

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 April 2002 to June 2002	Percentage change between January 2002 to March 2002 and April 2002 to June 2002	Difference in seasonally adjusted sales of manufacturing divisions between January 2002 to March 2002 and April 2002 to June 2002
	R'000		R'000
Food and food products	20 454 689	+5,6	1 086 402
Beverages	6 627 799	+7,0	433 457
Total textiles	3 394 017	+9,8	302 181
Total Wearing apparel	3 090 943	+7,0	203 346
Tanning and dressing of leather	827 603	+8,8	67 254
Footwear	508 124	+0,3	1 498
Wood and products of wood	3 235 244	+12,3	353 432
Paper and paper products	7 433 764	+3,1	221 045
Total publishing and printing	3 551 862	+12,1	384 016
Coke and refined petroleum products	11 812 930	+9,2	996 384
Basic chemicals	7 890 696	+3,6	273 897
Other chemical products	9 044 236	+7,3	615 745
Rubber products	1 601 965	+0,9	14 729
Plastic products	3 843 704	+11,2	386 103
Glass and glass products	810 334	+2,9	22 652
Other non-metallic mineral products	3 291 433	+6,7	205 963
Basic iron and steel products	11 431 675	+4,2	461 787
Basic precious and non-ferrous metal products	5 438 675	+7,0	355 120
Fabricated metal products	8 605 064	+11,0	853 606
Total machinery and equipment	6 988 912	+15,9	959 416
Electrical machinery, apparatus	4 259 654	+7,4	292 732
Radio, television and communication apparatus	1 140 248	+12,6	127 183
Professional equipment	503 748	+4,4	21 259
Motor vehicles; trailers; parts and accessories	20 628 272	+12,1	2 219 764
Other transport equipment	1 120 600	+8,5	87 505
Furniture	1 803 006	+1,4	25 319
Other manufacturing industries	4 322 584	+1,8	77 982
Total	153 661 781	+7,7	11 049 777