

P3041.2

**Manufacturing: production and
sales**

July 2002

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Key figures as at the end of July 2002

Actual estimates		July 2002	% change between July 2001 and July 2002	% change between May 2001 to July 2001 and May 2002 to July 2002	% change between January 2001 to July 2001 and January 2002 to July 2002
volume of manufacturing index (1995=100)	Physical production	116,8	+7,8	+5,6	+5,1
	Total value of manufactured products (R million)	51 738,6	+25,4	+22,7	+21,7

Seasonally adjusted estimates		July 2002	% change between June 2002 and July 2002	% change between February 2002 to April 2002 and May 2002 to July 2002
volume of manufacturing index (1995=100)	Physical production	116,1	+5,0	+0,4
	Total value of manufactured products (R million)	52 448,6	+6,9	+3,1

Key findings as at the end of July 2002

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the three months ended July 2002 reflected an increase of 0,4% after seasonal adjustment compared with the previous three months. Higher production was reported by 14 of the 27 manufacturing divisions.

The major contributor to the increase of 0,4% after seasonal adjustment in the total manufacturing production was the food division (contributing +0,3 of a percentage point to the increase in total manufacturing production), followed by the plastic products (+0,2 of a percentage point), basic iron and steel products (+0,2 of a percentage point), machinery and equipment (+0,2 of a percentage point), electrical machinery (+0,2 of a percentage point) and motor vehicles, trailers, parts and accessories (+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 July 2002 reflected an increase of 3,1% (+R4 550 million) after seasonal adjustment compared with the previous three months. Higher manufacturing sales were reported by 16 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 July 2002 reflected an increase of 22,7% (+R28 413 million) compared with the three months ended July 2001. Higher manufacturing sales were reported by all 27 manufacturing divisions during this period.

The increase of 3,1% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended July 2002 compared with the previous three months was mainly due to large increases reported by the food and food products (+8,4% or +R1 618 million), coke and refined petroleum products (+7,6% or +R867 million), machinery and equipment (+7,1% or +R464 million), fabricated metal products (+5,7% or +R457 million) and basic iron and steel products (+4,4% or +R487 million) divisions (cf. table B).

The major contributors to the increase of 22,7% in the actual value of sales of manufactured products at current prices for the three months ended July 2002 compared with the three months ended July 2001 were the food and food products (+3,6 percentage points or +R4 554 million), motor vehicles, trailers, parts and accessories (+2,9 percentage points or +R3 639 million), basic iron and steel products (+2,5 percentage points or +R3 172 million), coke and refined petroleum products (+2,1 percentage points or +R2 599 million), 'other' chemical products (+1,3 percentage points or +R1 603 million), machinery and equipment (+1,3 percentage points or +R1 579 million) and fabricated metal products (+1,2 percentage points or +R1 575 million) divisions (cf. table C).

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Notes

Forthcoming issues	Issue	Expected release date
	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 (July) 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 - <ul style="list-style-type: none">• 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 estimates	of 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	<p>Users may also wish to refer to the following publications which are available from Stats SA -</p> <ul style="list-style-type: none"> • 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 figures	of 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 July 2002 is 77,9%. The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for July 2002

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	306	75,8
Beverages	65	87,7
Textile	111	89,2
Total wearing apparel	130	86,9
Tanning and dressing of leather	26	88,5
Footwear	21	85,7
Wood and products of wood	123	73,2
Paper and paper products	93	75,3
Total publishing and printing	89	71,9
Coke and refined petroleum products	30	76,7
Basic chemicals	78	79,5
Other chemical products	108	75,9
Rubber products	19	100,0
Plastic products	88	75,0
Glass and glass products	14	85,7
Other non-metallic mineral products	133	73,7
Basic iron and steel products	42	81,0
Basic precious and non-ferrous metal products	23	78,3
Fabricated metal products	230	73,0
Total machinery and equipment	181	84,0
Electrical machinery, apparatus	76	71,1
Radio, television and communication apparatus	23	73,9
Professional equipment	29	75,9
Motor vehicles; trailers; parts and accessories	115	80,9
Other transport equipment	35	71,4
Furniture	60	70,0
Other manufacturing industries	82	74,4
Total	2 330	77,9

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 -

- 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 -

- 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.

FOR MORE INFORMATION

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English only.

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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 May 2002 to July 2002	Quarterly percentage change (May 2002 to July 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	102,7	+3,0	+0,3
Beverages	4,6	103,6	-0,9	-0,0
Total textiles	2,9	103,5	-2,5	-0,1
Total wearing apparel	3,6	86,1	+2,7	+0,1
Tanning and dressing of leather	0,4	124,1	+10,7	+0,0
Footwear	0,9	50,8	+0,4	+0,0
Wood and products of wood	1,9	130,1	-0,6	-0,0
Paper and paper products	5,3	107,8	-4,6	-0,2
Total publishing and printing	4,1	82,6	-2,6	-0,1
Coke and refined petroleum products	4,2	109,0	+2,7	+0,1
Basic chemicals	4,5	153,1	-2,7	-0,1
Other chemical products	6,2	114,1	-1,5	-0,1
Rubber products	1,4	108,1	-3,6	-0,1
Plastic products	3,1	115,3	+7,5	+0,2
Glass and glass products	1,0	109,6	+4,8	+0,1
Other non-metallic mineral products	3,5	94,7	-3,7	-0,1
Basic iron and steel products	7,6	119,6	+2,7	+0,2
Basic precious and non-ferrous metal products	3,2	179,4	+1,2	+0,0
Fabricated metal products	7,0	121,6	-1,5	-0,1
Total machinery and equipment	5,8	121,2	+3,1	+0,2
Electrical machinery, apparatus	3,4	109,5	+4,9	+0,2
Radio, television and communication apparatus	1,0	83,1	-1,1	-0,0
Professional equipment	0,5	97,9	+2,2	+0,0
Motor vehicles; trailers; parts and accessories	8,0	130,9	+2,5	+0,2
Other transport equipment	1,0	132,8	-5,3	-0,1
Furniture	1,6	102,7	+1,6	+0,0
Other manufacturing divisions	2,6	116,4	-9,3	-0,2
Total	100,0	114,4	+0,4	+0,4

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	90,8	95,6	99,5*
F	96,7	103,1	101,1	98,3	104,2	108,4	110,7*
M	102,6	102,5	102,7	102,2	111,1	113,3	116,1*
A	96,4	105,5	96,3	95,2	94,5	99,9	110,9*
M	104,1	106,2	101,1	100,7	106,1	107,4	116,8*
J	102,9	104,9	104,5	100,0	108,5	111,5	111,8
J	104,7	108,2	104,4	103,6	106,6	108,3	116,8 1/
A	107,8	105,8	99,9	102,7	108,6	107,6	
S	105,2	108,2	106,8	106,1	111,2	110,3	
O	115,8	119,1	111,7	112,6	116,9	123,0	
N	114,4	111,7	109,8	115,6	119,7	123,9	
D	83,7	86,9	85,3	91,3	95,0	97,0	
Year	101,5	104,3	101,1	101,4	106,1	108,9	
Seasonally adjusted indices							
J	98,9	105,1	104,1	101,3	103,3	108,5	113,1
F	98,6	105,1	102,7	99,9	105,6	109,8	111,8
M	99,1	99,7	100,2	99,4	107,6	109,3	111,8
A	102,0	110,8	101,1	100,1	99,7	105,7	118,3
M	103,9	105,4	100,3	100,2	105,5	106,8	116,4
J	101,6	103,5	103,1	98,8	107,0	110,1	110,6
J	102,7	106,0	102,5	102,1	105,3	107,4	116,1
A	104,8	103,4	98,2	101,4	107,6	106,6	
S	100,4	103,4	102,5	102,0	107,2	106,4	
O	103,5	106,5	100,5	101,6	106,0	111,4	
N	103,1	100,9	99,2	104,4	108,0	111,4	
D	98,6	101,8	99,8	106,9	110,6	112,5	

* 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	Actual indices			Seasonally adjusted indices			
			2001	July	June	July 1/	July	June	July
				2001	2002		2001	2002	
Food and food products	10,7	104,3*	100,7	105,2	96,5	104,1	103,3	100,5	
Meat, fish, fruit etc.	2,8	120,0*	109,3	126,3	120,6	119,2	130,0	131,5	
Dairy products	1,4	92,4*	83,3	81,8	84,8	88,8	89,0	90,6	
Grain mill products	2,1	99,8	97,4	101,0	103,1	95,1	99,8	101,0	
Other food products	4,4	100,1	102,2	100,8	81,4	103,4	92,1	83,5	
Beverages	4,6	98,5*	78,7	95,6	83,4	93,8	103,8	99,9	
Total textiles	2,9	96,4	98,7	106,6	107,6	92,7	100,9	101,7	
Textiles	1,7	86,3	92,5	94,8	96,3	85,3	88,8	89,2	
Other textile products	1,2	110,8	107,6	123,4	123,5	103,3	117,9	119,4	
Total wearing apparel	3,6	78,9	75,7	75,7	85,2	75,8	84,5	85,9	
Knitted, crocheted articles	0,6	76,5	75,5	79,9	87,7	74,0	79,5	86,3	
Wearing apparel	3,0	79,4	75,7	74,8	84,7	76,2	85,5	85,8	
Tanning and dressing of leather	0,4	114,8	115,3	114,6	127,4	115,4	117,8	126,7	
Footwear	0,9	53,9	53,5	45,2	57,0	53,0	44,8	56,6	
Wood and products of wood	1,9	120,8	122,8	128,2	127,2	119,6	124,5	124,8	
Sawmilling and planing of wood	0,8	101,5	106,3	117,9	108,7	100,5	115,4	103,1	
Products of wood	1,2	133,4	133,6	135,0	139,3	132,2	130,5	139,0	
Paper and paper products	5,3	103,5	100,2	111,7	108,6	100,9	109,6	109,4	
Total publishing and printing	4,1	83,8	82,3	82,3	76,6	84,5	84,1	79,2	
Publishing	1,5	96,2	91,0	87,9	80,9	98,1	89,4	88,0	
Printing, recorded media	2,6	76,8	77,4	79,2	74,2	76,9	81,1	74,3	
Coke and refined petroleum products	4,2	104,6	102,8	109,1	105,6	104,4	109,7	107,2	
Basic chemicals	4,5	140,3	142,8	143,9	153,0	145,6	149,6	155,7	
Other chemical products	6,2	106,1*	104,3	107,9	113,8	103,6	110,6	113,6	
Rubber products	1,4	99,3	111,0	99,7	120,7	107,1	100,5	115,9	
Plastic products	3,1	97,0	98,7	112,4	116,5	96,5	114,5	114,1	
Glass and glass products	1,0	98,9	97,4	110,4	108,0	98,6	109,4	108,9	
Other non-metallic mineral products	3,5	97,9*	102,3	92,0	100,5	99,4	85,2	98,1	
Basic iron and steel products	7,6	115,3	115,3	122,5	137,1	110,0	116,8	130,6	
Basic precious and non-ferrous metal products	3,2	171,8*	181,9	176,1	187,1	172,1	175,0	177,8	
Fabricated metal products	7,0	110,8	113,6	116,8	125,3	110,9	117,4	122,9	
Structural metal products	2,4	100,8	108,2	101,3	107,2	105,5	103,3	104,5	
Other fabricated metal product	4,6	116,1	116,3	124,8	134,6	113,7	124,6	132,3	
Total machinery and equipment	5,8	108,7	102,8	119,7	130,0	99,4	114,3	126,1	
General purpose machinery	2,5	112,3	99,6	120,2	130,0	96,9	109,7	125,6	
Special purpose machinery	2,9	104,3	102,9	117,5	129,5	99,5	117,5	126,5	
Household appliances	0,4	118,8	121,9	133,2	133,9	114,5	120,3	126,6	
Electrical machinery, apparatus	3,4	102,7	100,3	110,6	111,4	99,3	105,3	111,0	
Radio, television and communication apparatus	1,0	94,5*	84,1	86,5	74,6	87,1	86,5	78,3	
Professional equipment	0,5	83,4*	89,4	104,3	104,9	82,9	100,4	96,9	
Motor vehicles; trailers; parts and accessories	8,0	129,6*	134,7	119,9	148,8	129,4	114,0	143,4	
Motor vehicles	4,5	127,6	136,0	115,2	131,2	129,8	102,7	124,9	
Bodies for motor vehicles; trailers and semi-trailers	0,5	66,7	53,8	72,8	68,1	58,1	69,2	74,2	
Parts and accessories	3,0	144,2*	147,6	135,7	190,0	141,8	139,2	183,8	
Other transport equipment	1,0	122,1*	130,6	146,0	118,0	125,1	142,7	113,8	
Furniture	1,6	98,3	96,1	92,6	104,4	99,8	87,0	108,7	
Other manufacturing divisions	2,6	110,6	121,7	114,4	126,2	112,8	108,9	117,6	
Total	100,0	108,9*	108,3	111,8	116,8	107,4	110,6	116,1	

* 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	28 656 999	34 048 668	40 406 432*
F	26 328 500	29 866 793	29 901 544	30 601 551	35 032 589	39 242 945	46 671 409*
M	28 188 286	29 866 272	32 190 538	32 784 131	38 106 013	42 745 053	49 347 364*
A	26 231 967	30 438 604	29 758 879	30 497 742	32 716 838	37 880 330	49 718 802*
M	28 293 052	30 626 091	30 352 835	32 731 846	37 110 010	41 201 304	51 749 017*
J	28 261 416	30 575 542	31 723 893	33 108 598	38 779 272	42 804 155	50 189 251
J	28 378 392	31 169 707	31 732 667	33 319 382	36 303 946	41 258 454	51 738 608 1/
A	29 568 761	31 400 042	30 810 619	33 643 307	39 061 898	41 235 238	
S	29 549 724	31 344 644	32 896 327	35 776 740	39 988 077	42 414 976	
O	33 070 022	35 902 602	34 970 472	37 452 163	41 849 266	48 682 685	
N	33 084 713	33 709 581	34 300 610	38 913 647	43 959 297	49 560 508	
D	26 338 721	28 128 922	29 016 347	33 052 001	37 317 870	42 305 652	
Year	339 096 803	368 283 280	373 568 657	398 289 028	448 882 075	503 379 968	
Seasonally adjusted values							
J	26 395 959	30 496 173	31 049 188	31 448 694	33 878 442	39 866 992	47 524 779
F	26 819 868	30 515 919	30 618 139	31 408 485	35 894 447	40 209 406	47 843 851
M	26 888 626	28 706 486	30 953 468	31 553 596	36 486 316	40 918 320	47 227 857
A	27 718 858	32 099 977	31 486 207	32 336 658	34 771 754	40 348 416	53 336 212
M	28 440 477	30 705 222	30 379 311	32 756 662	36 979 095	40 964 191	51 429 469
J	28 035 384	30 222 525	31 256 510	32 608 758	37 968 915	41 859 134	49 079 424
J	28 364 478	31 161 490	31 842 260	33 569 118	36 652 042	41 744 385	52 448 556
A	28 809 922	30 748 252	30 356 623	33 258 579	38 688 781	40 821 895	
S	28 367 797	30 165 746	31 776 760	34 680 873	38 800 390	41 247 334	
O	29 574 260	32 171 179	31 381 622	33 811 710	38 120 012	44 493 609	
N	29 744 544	30 332 132	30 812 880	34 912 128	39 588 715	44 456 662	
D	29 270 925	30 822 387	31 456 632	35 877 136	40 446 480	45 498 533	

* 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		
		July	June	July 1/	July	June	July
		2001	2002		2001	2002	
Food and food products	67 324 864	5 494 327	7 141 872	6 864 742	5 539 300	7 093 609	6 927 982
Meat, fish, fruit etc.	20 191 117	1 601 038	2 175 218	2 204 896	1 656 152	2 179 724	2 273 458
Dairy products	7 941 251	632 666	698 653	744 078	672 976	750 438	794 156
Grain mill products	17 569 435	1 405 811	2 041 162	2 104 986	1 378 667	2 008 777	2 072 146
Other food products	21 623 061	1 854 812	2 226 839	1 810 782	1 831 505	2 154 670	1 788 222
Beverages	23 706 465	1 618 067	1 992 071	1 874 730	1 937 532	2 185 427	2 256 629
Total textiles	11 022 124	936 287	1 156 430	1 180 965	895 416	1 077 520	1 135 582
Textiles	6 965 073	612 718	743 069	769 540	575 347	705 806	725 201
Other textile products	4 057 051	323 569	413 361	411 425	320 069	371 714	410 381
Total wearing apparel	10 957 867	887 753	905 355	1 038 183	900 012	958 239	1 054 490
Knitted, crocheted articles	1 846 405	154 324	183 378	198 760	151 326	162 425	195 557
Wearing apparel	9 111 462	733 429	721 977	839 423	748 686	795 814	858 933
Tanning and dressing of leather	2 803 508	202 264	277 749	275 589	206 811	265 593	282 052
Footwear	1 974 373	179 695	151 585	193 377	170 327	157 829	181 943
Wood and products of wood	10 174 337	888 356	996 580	1 042 678	851 722	973 932	1 000 470
Sawmilling and planing of wood	2 760 863	239 535	292 890	305 301	229 543	279 549	293 390
Products of wood	7 413 474	648 821	703 690	737 377	622 179	694 383	707 080
Paper and paper products	25 164 997	2 007 522	2 551 798	2 506 366	2 030 838	2 447 656	2 532 531
Total publishing and printing	12 318 990	984 717	1 124 307	1 097 607	1 029 099	1 174 570	1 155 255
Publishing	5 137 601	400 260	443 522	414 020	426 520	455 454	444 690
Printing, recorded media	7 181 389	584 457	680 785	683 587	602 579	719 116	710 565
Coke and refined petroleum products	37 699 329	3 375 203	3 881 164	4 338 887	3 436 722	3 778 508	4 398 836
Basic chemicals	25 202 064	2 179 306	2 455 523	2 517 686	2 215 901	2 543 737	2 558 055
Other chemical products	29 537 288	2 445 235	2 817 104	2 923 515	2 491 599	2 905 178	2 977 541
Rubber products	5 324 083	495 625	514 720	606 279	499 606	496 945	608 571
Plastic products	12 330 216	1 002 449	1 245 183	1 303 065	989 352	1 248 091	1 292 044
Glass and glass products	2 841 584	232 629	258 235	280 891	231 628	267 432	279 257
Other non-metallic mineral products	12 216 261	1 018 326	1 075 782	1 222 490	995 889	999 456	1 202 122
Basic iron and steel products	35 607 441	2 732 670	4 034 601	3 825 124	2 886 112	3 816 919	4 050 471
Basic precious and non-ferrous metal products	17 972 477	1 241 212	1 845 693	1 871 894	1 270 930	1 699 727	1 922 013
Fabricated metal products	27 694 470	2 290 387	2 710 839	2 860 599	2 272 252	2 717 315	2 831 854
Structural metal products	9 132 860	740 948	828 323	884 790	745 101	821 834	885 796
Other fabricated metal product	18 561 610	1 549 439	1 882 516	1 975 809	1 527 151	1 895 481	1 946 058
Total machinery and equipment	21 839 183	1 840 572	2 454 832	2 409 454	1 810 798	2 346 290	2 368 814
General purpose machinery	9 421 686	819 222	1 032 247	1 007 312	793 041	983 430	968 085
Special purpose machinery	10 085 479	830 168	1 192 150	1 164 996	833 486	1 139 516	1 170 370
Household appliances	2 332 018	191 182	230 435	237 146	184 271	223 345	230 359
Electrical machinery, apparatus	13 981 876	1 170 321	1 450 907	1 448 815	1 152 715	1 378 970	1 440 811
Radio, television and communication apparatus	3 634 854	235 918	410 203	323 847	249 831	370 262	351 408
Professional equipment	1 657 936	136 500	180 587	169 233	136 235	163 618	169 081
Motor vehicles; trailers; parts and accessories	65 043 901	5 604 984	6 218 282	7 090 902	5 480 927	5 797 000	6 987 386
Motor vehicles	45 822 893	3 953 638	4 357 845	4 947 508	3 886 775	3 942 193	4 906 342
Bodies for motor vehicles; trailers and semi-trailers	1 620 464	132 590	164 407	163 468	136 677	167 790	169 792
Parts and accessories	17 600 544	1 518 756	1 696 030	1 979 926	1 457 475	1 687 017	1 911 252
Other transport equipment	3 373 967	301 126	379 576	327 767	307 814	332 902	330 921
Furniture	6 227 972	525 650	567 431	606 269	517 041	574 665	598 933
Other manufacturing divisions	15 747 541	1 231 353	1 390 842	1 537 654	1 237 976	1 308 033	1 553 505
Total	503 379 968	41 258 454	50 189 251	51 738 608	41 744 385	49 079 424	52 448 556

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	July	June	July 1/	July	June	July
	2001	2002		2001	2002	
Spinning, weaving and finishing of textiles	229 844	301 160	331 804	227 511	293 508	328 566
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	28 804	31 501	31 226	32 003	36 153	34 714
Other textile articles	53 128	55 858	67 286	52 109	60 573	65 738
Knitted and crocheted fabrics and articles	105 777	140 956	144 675	112 697	148 293	154 065
Wearing apparel	649 939	796 110	779 686	666 678	823 900	799 088
Sawmilling and preserving of timber	20 527	24 934	18 115	20 190	26 226	17 779
Veneer sheets, plywood, laminboard, etc.	21 972	27 133	24 817	21 113	25 958	23 778
Builders' carpentry and joinery	40 628	45 543	46 516	39 674	45 999	45 873
Pulp, paper and paperboard	379 856	151 350	546 292	323 908	143 674	463 707
Corrugated paper and paperboard and containers	377 074	323 904	381 969	377 783	345 597	379 259
Paints, varnishes and coatings	23 523	20 624	17 477	26 571	23 033	19 602
Basic iron and steel products	3 416 029	4 874 914	4 677 496	3 434 907	4 913 534	4 694 267
Steel pipe and tube mills	188 953	575 018	563 233	188 585	618 897	557 761
Basic precious and non-ferrous metal products	1 834 841	1 883 015	1 850 248	1 786 054	1 741 260	1 790 389
Metal structures, parts	1 597 331	1 549 636	1 525 492	1 494 235	1 393 168	1 418 923
Cutlery, hand tools and general hardware	17 114	28 764	26 350	18 559	31 070	29 227
Metal containers, e.g. cans and tins	80 209	66 473	67 954	82 125	63 926	69 502
Cables, wire products, springs	68 521	63 452	63 765	64 599	58 838	60 319
Metal fasteners	58 356	71 860	81 708	62 442	74 781	87 574
All other metal products	504 865	855 966	844 692	511 279	846 091	869 312
Domestic appliances	31 006	33 822	28 781	29 646	33 297	27 413
Electric motors, generators and transformers	414 859	441 731	425 320	393 226	407 790	401 853
Insulated wire and cables	425 345	387 156	366 939	410 749	358 844	352 155
Accumulators, primary cells and primary batteries	14 376	5 446	5 266	14 998	5 269	5 492
Television, radio and communication apparatus	2 049 522	2 416 800	2 262 994	1 969 013	2 256 925	2 160 223
Motor vehicles	2 186 934	2 620 086	2 479 318	2 296 373	2 685 883	2 600 381
Parts and accessories for motor vehicles	380 413	494 532	669 034	343 809	479 028	602 340
Furniture	236 245	241 683	301 689	257 662	270 618	329 876

* 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 May 2001 to July 2001	Percentage change between May 2001 to July 2001 and May 2002 to July 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 May 2001 to July 2001 and May 2002 to July 2002
				R'000
Food and food products	13,2	27,6	3,6	4 554 245
Beverages	4,1	14,4	0,6	732 595
Total textiles	2,3	22,5	0,5	653 961
Total Wearing apparel	2,1	13,2	0,3	347 093
Tanning and dressing of leather	0,6	14,3	0,1	104 855
Footwear	0,4	0,7	0,0	3 711
Wood and products of wood	2,1	20,6	0,4	537 326
Paper and paper products	5,1	17,2	0,9	1 097 286
Total publishing and printing	2,4	14,6	0,4	429 588
Coke and refined petroleum products	7,7	27,1	2,1	2 598 834
Basic chemicals	5,0	19,6	1,0	1 232 721
Other chemical products	5,7	22,6	1,3	1 603 232
Rubber products	1,1	20,2	0,2	286 572
Plastic products	2,4	25,4	0,6	776 071
Glass and glass products	0,5	17,9	0,1	120 200
Other non-metallic mineral products	2,5	11,7	0,3	368 768
Basic iron and steel products	6,9	36,9	2,5	3 171 555
Basic precious and non-ferrous metal products	3,5	21,9	0,8	971 591
Fabricated metal products	5,5	22,7	1,2	1 574 518
Total machinery and equipment	4,4	28,7	1,3	1 579 077
Electrical machinery, apparatus	2,8	23,5	0,7	838 156
Radio, television and communication apparatus	0,6	33,7	0,2	266 015
Professional equipment	0,3	31,7	0,1	127 164
Motor vehicles; trailers; parts and accessories	13,5	21,5	2,9	3 638 859
Other transport equipment	0,7	23,0	0,2	200 873
Furniture	1,3	12,4	0,2	200 134
Other manufacturing divisions	3,2	9,9	0,3	397 963
Total	100,0	22,7	22,7	28 412 963

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 May 2002 to July 2002	Percentage change between February 2002 to April 2002 and May 2002 to July 2002	Difference in seasonally adjusted sales of manufacturing divisions between February 2002 to April 2002 and May 2002 to July 2002
	R'000		R'000
Food and food products	20 924 381	+8,4	1 618 242
Beverages	6 701 933	+4,6	292 676
Total textiles	3 355 875	+4,4	140 524
Total Wearing apparel	3 087 052	+5,2	151 403
Tanning and dressing of leather	797 500	-1,8	-14 228
Footwear	515 521	+1,1	5 588
Wood and products of wood	3 035 442	-1,6	-50 843
Paper and paper products	7 289 608	-3,3	-248 182
Total publishing and printing	3 501 695	+4,8	159 181
Coke and refined petroleum products	12 251 568	+7,6	867 278
Basic chemicals	7 721 608	-0,8	-65 072
Other chemical products	8 938 443	+3,7	315 367
Rubber products	1 658 946	+0,9	14 366
Plastic products	3 815 915	+6,0	217 284
Glass and glass products	824 179	+4,5	35 755
Other non-metallic mineral products	3 383 908	-1,8	-60 665
Basic iron and steel products	11 621 341	+4,4	486 653
Basic precious and non-ferrous metal products	5 284 275	-2,0	-109 987
Fabricated metal products	8 464 439	+5,7	456 647
Total machinery and equipment	6 959 962	+7,1	463 723
Electrical machinery, apparatus	4 299 418	+5,5	224 752
Radio, television and communication apparatus	1 077 823	-0,0	-527
Professional equipment	508 393	+5,2	25 251
Motor vehicles; trailers; parts and accessories	19 789 821	-0,6	-123 446
Other transport equipment	1 051 267	-4,5	-49 418
Furniture	1 799 157	-1,8	-33 239
Other manufacturing industries	4 297 982	-3,8	-170 605
Total	152 957 450	+3,1	4 549 530