

Manufacturing: production and sales

September 2002

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

Embargo: 13:00
Date: 12 November 2002

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

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

Key figures as at the end of September 2002

Actual estimates		September 2002	% change between September 2001 and September 2002	% change between July 2001 to September 2001 and July 2002 to September 2002	% change between January 2001 to September 2001 and January 2002 to September 2002
of	Physical volume				
	manufacturing production index (1995=100)	119,1	+8,6	+8,3	+6,3
sales	Total value of				
	of manufactured products (R million)	55 090,7	+30,3	+28,5	+23,7

Seasonally adjusted estimates		September 2002	% change between August 2002 and September 2002	% change between April 2002 to June 2002 and July 2002 to September 2002
	Physical volume of manufacturing production index (1995=100)	116,0	-0,7	+0,1
	Total value of sales of manufactured products (R million)	53 705,0	+1,8	+3,2

Key findings as at the end of September 2002

MANUFACTURING PRODUCTION INCREASES SLIGHTLY

Manufacturing production for the third quarter of 2002 reflected a slight increase of 0,1% after seasonal adjustment compared with the second quarter of 2002. Higher production was reported by 11 of the 27 manufacturing divisions. Furthermore, the actual manufacturing production for the first nine months of 2002 reflected an increase of 6,3% compared with the first nine months of 2001.

The major contributor to the increase of 0,1% after seasonal adjustment in the total manufacturing production was the basic iron and steel products division (contributing +1,1 percentage point to the increase in total manufacturing production), followed by the fabricated metal products (+0,2 of a percentage point), beverage (+0,1 of a percentage point), footwear (+0,1 of a percentage point), paper and paper products (+0,1 of a percentage point), 'other' non-metallic mineral products (+0,1 of a percentage point) and furniture (+0,1 of a percentage point) divisions (cf. table A).

Figure 1 – Index of the physical volume of manufacturing production

SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products at current prices for the third quarter of 2002 reflected an increase of 3,2% (+R4 957 million) after seasonal adjustment compared with the second quarter of 2002. Higher manufacturing sales were reported by 20 of the 27 manufacturing divisions during this period. Furthermore, the actual total value of sales of manufactured products at current prices for the third quarter of 2002 reflected an increase of 28,5% (+R35 524 million) compared with the third quarter of 2001. Higher manufacturing sales were reported by all 27 manufacturing divisions during this period.

The increase of 3,2% after seasonal adjustment in the total value of sales of manufactured products at current prices for the third quarter of 2002 compared with the second quarter of 2002 was mainly due to large increases reported by the basic iron and steel products division (+17,0% or +R1 961 million), beverage (+6,0% or +R393 million), paper and paper products (+5,1% or +R377 million), basic chemicals (+4,9% or +R391 million), food and food products (+4,4% or +R897 million) and coke and refined petroleum products (+4,4% or +R503 million) divisions (cf. table B).

The major contributors to the increase of 28,5% in the actual value of sales of manufactured products at current prices for the third quarter of 2002 compared with the third quarter of 2001 were the motor vehicles, trailers, parts and accessories (+4,5 percentage points or +R5 608 million), basic iron and steel products (+3,6 percentage points or +R4 449 million), food and food products (+3,4 percentage points or +R4 254 million), coke and refined petroleum products (+2,3 percentage points or +R2 915 million), basic chemicals (+1,6 percentage points or +R2 019 million), fabricated metal products (+1,6 percentage points or +R1 964 million), 'other' chemical products (+1,3 percentage points or +R1 682 million) and paper and paper products (+1,3 percentage points or +R1 623 million) divisions (cf. table C).

Figure 2 - Total value of sales of manufactured products at current prices

PP
P J Lehohla
Statistician-General: Statistics South Africa

Contents

	Page
Notes	7
Tables	
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
Additional information	
Explanatory notes	13
Technical notes	17
Glossary	18
For more information	20

Notes

Forthcoming issues**Issue****Expected release date**

October 2002

10 December 2002

November 2002

14 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 | <p>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.</p> <p>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.</p> <p>3 In order to improve timeliness, some information for the current month (September) 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.</p> |
| Scope of the survey | <p>4 This survey covers manufacturing establishments conducting activities regarding -</p> <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 | <p>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).</p> |
| Statistical unit | <p>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).</p> |
| Survey methodology and design | <p>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.</p> <p>8 The survey is collected by mail each month from a sample of approximately 2 330 manufacturing establishments.</p> |

- 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	<p>In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined as follows:</p> <p>A weight is calculated for every major group according to the value added of the relevant major group compared with the value added to the total manufacturing industry based on the 1991, 1993 and 1996 Censuses of Manufacturing. Weights between census years are fixed and are based on the results of the most recent Census of Manufacturing. The production indices of all the major groups are multiplied by the applicable weights and aggregated to reflect the total physical volume of manufacturing production index.</p>
Seasonal adjustment	14	<p>Seasonally adjusted estimates of all items are generated each month, using the X-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.</p>
Trend cycle	15	<p>The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.</p>
Reliability of estimates	16	<p>Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.</p>
Historical data	17	<p>More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups and the value of sales for the period January 1990 to September 1999 were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.</p>
Related publications	18	<p>Users may also wish to refer to the following publications which are available from Stats SA -</p> <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 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 September 2002 is 83,4%.
The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for September 2002

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	306	82,7
Beverages	65	89,2
Textile	111	89,2
Total wearing apparel	127	89,0
Tanning and dressing of leather	26	100,0
Footwear	21	85,7
Wood and products of wood	123	76,4
Paper and paper products	93	77,4
Total publishing and printing	89	74,2
Coke and refined petroleum products	30	86,7
Basic chemicals	77	84,4
Other chemical products	108	80,6
Rubber products	18	100,0
Plastic products	88	88,6
Glass and glass products	14	85,7
Other non-metallic mineral products	133	81,2
Basic iron and steel products	42	85,7
Basic precious and non-ferrous metal products	23	87,0
Fabricated metal products	230	80,9
Total machinery and equipment	181	81,8
Electrical machinery, apparatus	76	81,6
Radio, television and communication apparatus	23	78,3
Professional equipment	28	78,6
Motor vehicles; trailers; parts and accessories	113	87,6
Other transport equipment	35	88,6
Furniture	59	89,8
Other manufacturing industries	82	81,7
Total	2 321	83,4

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. <p>Output includes -</p> <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.

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.

Stats SA has copyright on this publication. Users may apply the information as they wish, provided that they acknowledge Stats SA as the source of the basic data wherever they process, apply, utilise, publish or distribute the data; and also that they specify that the relevant application and analysis (where applicable) result from their own processing of the data.

Advance release calendar

An advance release calendar is disseminated on <http://www.statssa.gov.za>

Stats SA products

A complete set of Stats SA publications is available at the Stats SA Library and the following libraries:

National Library of South Africa, Pretoria Division
 National Library of South Africa, Cape Town Division
 Natal Society Library, Pietermaritzburg
 Library of Parliament, Cape Town
 Bloemfontein Public Library
 Johannesburg Public Library
 Eastern Cape Library Services, King William's Town
 Central Regional Library, Polokwane
 Central Reference Library, Nelspruit
 Central Reference Collection, Kimberley
 Central Reference Library, Mmabatho

Stats SA also provides a subscription service.

Electronic services

A large range of data are available via on-line services, diskette and computer printouts. For more details about our electronic data services, contact (012) 310 8600/8390/8351/4892/8496/8095.

You can visit us on the Internet at: <http://www.statssa.gov.za>

Enquiries

Telephone number: (012) 310 8600/8390/8351/4892/8496/8095 (user enquiries)
 (012) 310 8233/310 8669 (technical enquiries)
 (012) 310 8161 (publications)
 (012) 310 8490 (library)

Fax number: (012) 310 8332

E-mail address: Dawnvd@statssa.gov.za
 Teresam@statssa.gov.za

Postal address: Private Bag X44, Pretoria, 0001

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 July 2002 to September 2002	Quarterly percentage change (July 2002 to September 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	100,2	-1,5	-0,2
Beverages	4,6	105,0	+1,0	+0,1
Total textiles	2,9	105,7	-1,3	-0,0
Total wearing apparel	3,6	83,7	-3,5	-0,1
Tanning and dressing of leather	0,4	132,9	+6,9	+0,0
Footwear	0,9	54,3	+7,1	+0,1
Wood and products of wood	1,9	130,6	-2,8	-0,1
Paper and paper products	5,3	112,3	+2,5	+0,1
Total publishing and printing	4,1	81,4	-4,8	-0,2
Coke and refined petroleum products	4,2	104,5	-3,1	-0,1
Basic chemicals	4,5	163,3	-0,9	-0,0
Other chemical products	6,2	112,8	-1,9	-0,1
Rubber products	1,4	104,3	+0,7	+0,0
Plastic products	3,1	113,6	-1,9	-0,1
Glass and glass products	1,0	105,9	-2,4	-0,0
Other non-metallic mineral products	3,5	102,4	+4,1	+0,1
Basic iron and steel products	7,6	131,2	+14,9	+1,1
Basic precious and non-ferrous metal products	3,2	177,3	-2,4	-0,1
Fabricated metal products	7,0	127,5	+2,2	+0,2
Total machinery and equipment	5,8	124,1	+0,7	+0,0
Electrical machinery, apparatus	3,4	107,4	-2,2	-0,1
Radio, television and communication apparatus	1,0	87,0	-6,0	-0,1
Professional equipment	0,5	97,4	-0,1	-0,0
Motor vehicles; trailers; parts and accessories	8,0	131,6	-3,3	-0,3
Other transport equipment	1,0	141,6	+2,2	+0,0
Furniture	1,6	105,0	+2,9	+0,1
Other manufacturing divisions	2,6	117,5	-8,4	-0,2
Total	100,0	116,3	+0,1	+0,1

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	99,4*
F	96,7	103,1	101,1	98,3	104,2	108,3	110,7*
M	102,6	102,5	102,7	102,2	111,0	113,4	116,3
A	96,4	105,5	96,3	95,2	94,4	100,2	111,9*
M	104,1	106,2	101,1	100,7	105,9	106,9	117,7*
J	102,9	104,9	104,5	100,0	108,3	111,5	113,3*
J	104,7	108,2	104,4	103,6	106,3	109,3	117,0
A	107,8	105,8	99,9	102,7	108,7	108,5	118,5
S	105,2	108,2	106,8	106,1	111,0	109,7	119,1 1/
O	115,8	119,1	111,7	112,6	116,7	122,4	
N	114,4	111,7	109,8	115,6	120,1	124,8	
D	83,7	86,9	85,3	91,3	95,0	97,1	
Year							
Year	101,5	104,3	101,1	101,4	106,0	109,0	
Seasonally adjusted indices							
J	98,8	105,1	104,1	101,3	103,5	108,8	113,3
F	98,6	105,1	102,7	99,9	105,6	109,8	111,8
M	99,1	99,7	100,1	99,3	107,3	109,2	111,7
A	102,0	110,8	101,1	100,0	99,5	106,0	119,0
M	103,9	105,4	100,3	100,3	105,5	106,4	117,3
J	101,6	103,5	103,1	98,8	106,8	110,1	112,1
J	102,7	106,0	102,5	102,1	104,9	108,2	116,0
A	104,8	103,4	98,1	101,3	107,3	107,1	116,8
S	100,4	103,5	102,6	102,4	107,4	106,4	116,0
O	103,4	106,5	100,6	101,7	106,1	111,2	
N	103,1	100,9	99,2	104,3	108,2	112,1	
D	98,6	101,8	99,8	106,9	110,7	112,7	

* 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	September	August	September	September	August	September		
				2001		2002		2001		2002	
				September	August	September	September	August	September		
Food and food products	10,7	104,3	102,3	98,0	100,8	103,1	98,5	101,9			
Meat, fish, fruit etc.	2,8	120,0	119,4	122,8	124,3	122,8	127,9	127,5			
Dairy products	1,4	92,4	90,7	92,5	88,6	89,5	88,4	87,6			
Grain mill products	2,1	99,8	108,1	102,9	105,3	106,7	101,5	103,4			
Other food products	4,4	100,1	92,2	81,4	87,3	93,0	81,2	89,1			
Beverages	4,6	98,5	104,9	102,3	107,0	101,4	113,5	102,9			
Total textiles	2,9	96,4	98,4	117,2	109,4	93,2	110,5	103,8			
Textiles	1,7	86,3	89,5	105,2	100,9	83,0	96,3	93,5			
Other textile products	1,2	110,8	111,1	134,3	121,5	107,7	130,7	118,3			
Total wearing apparel	3,6	78,9	86,2	91,7	89,1	78,6	85,5	81,8			
Knitted, crocheted articles	0,6	76,5	75,3	86,5	82,9	74,9	83,7	82,8			
Wearing apparel	3,0	79,4	88,4	92,7	90,4	79,3	85,9	81,7			
Tanning and dressing of leather	0,4	114,8	91,8	133,4	127,8	97,4	139,2	135,6			
Footwear	0,9	53,9	57,2	57,6	57,6	51,1	52,2	51,7			
Wood and products of wood	1,9	120,8	124,3	138,7	139,4	118,1	134,0	132,5			
Sawmilling and planing of wood	0,8	101,5	108,7	118,2	114,0	101,4	110,6	106,6			
Products of wood	1,2	133,4	134,5	152,1	156,1	129,1	149,4	149,4			
Paper and paper products	5,3	103,5	103,6	104,9	125,7	98,1	108,5	118,8			
Total publishing and printing	4,1	83,8	90,5	83,7	86,6	86,1	82,6	82,0			
Publishing	1,5	96,2	104,1	87,1	85,9	100,6	86,6	82,8			
Printing, recorded media	2,6	76,8	82,8	81,8	87,0	77,9	80,3	81,5			
Coke and refined petroleum products	4,2	104,6	95,4	99,2	101,6	101,2	98,7	107,7			
Basic chemicals	4,5	140,3	118,9	156,4	165,0	119,6	164,6	166,7			
Other chemical products	6,2	106,1	113,7	113,3	117,0	107,8	113,9	111,5			
Rubber products	1,4	99,3	78,0	105,1	97,9	77,1	102,5	97,9			
Plastic products	3,1	97,0	101,7	115,3	117,6	97,5	114,0	112,9			
Glass and glass products	1,0	98,9	105,8	108,8	113,2	101,3	101,3	108,5			
Other non-metallic mineral products	3,5	97,9	104,1	105,3	109,8	98,1	99,8	103,5			
Basic iron and steel products	7,6	116,2	111,5	138,6	130,4	113,7	133,9	133,6			
Basic precious and non-ferrous metal products	3,2	171,8	163,3	185,7	176,6	164,0	179,2	178,1			
Fabricated metal products	7,0	111,1	121,4	139,8	135,1	115,0	129,6	128,6			
Structural metal products	2,4	101,4	119,6	121,7	113,2	111,2	111,4	105,7			
Other fabricated metal product	4,6	116,1	122,3	149,1	146,3	116,9	138,9	140,4			
Total machinery and equipment	5,8	109,0	111,3	129,3	130,1	104,9	125,1	123,1			
General purpose machinery	2,5	113,0	119,8	121,5	141,9	106,5	116,0	125,6			
Special purpose machinery	2,9	104,3	102,6	140,2	120,5	102,9	136,9	122,1			
Household appliances	0,4	118,8	120,6	98,8	125,5	109,2	96,2	114,2			
Electrical machinery, apparatus	3,4	102,7	106,6	112,1	104,4	102,7	111,0	101,0			
Radio, television and communication apparatus	1,0	94,5	96,4	92,2	90,4	87,1	89,1	81,5			
Professional equipment	0,5	83,4	90,8	102,8	98,9	88,4	99,0	96,3			
Motor vehicles; trailers; parts and accessories	8,0	130,1	132,5	133,0	124,5	126,5	131,6	118,6			
Motor vehicles	4,5	127,6	125,2	125,5	120,3	120,2	123,3	115,4			
Bodies for motor vehicles; trailers and semi-trailers	0,5	66,7	59,0	68,8	63,7	62,5	70,2	68,4			
Parts and accessories	3,0	145,6	156,9	155,9	141,8	147,7	155,4	132,7			
Other transport equipment	1,0	122,1	130,1	112,1	179,2	136,2	119,2	187,4			
Furniture	1,6	98,2	101,0	109,2	107,4	92,6	106,5	100,2			
Other manufacturing divisions	2,6	110,6	111,5	127,1	123,6	102,3	120,1	114,2			
Total	100,0	109,0	109,7	118,5	119,1	106,4	116,8	116,0			

* 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	26 362 762	28 647 234	33 988 164	40 274 103*
F	26 328 500	29 866 793	29 901 544	30 551 283	34 961 840	39 187 078	46 550 321*
M	28 188 286	29 866 272	32 190 538	32 737 212	38 039 203	42 683 525	49 285 213*
A	26 231 967	30 438 604	29 758 879	30 447 208	32 651 220	37 828 090	49 733 964*
M	28 293 052	30 626 091	30 352 835	32 680 898	37 038 716	41 146 142	51 675 741*
J	28 261 416	30 575 542	31 723 893	33 054 424	38 710 074	42 743 527	50 414 838*
J	28 378 392	31 169 707	31 732 667	33 262 293	36 234 329	41 174 318	51 749 683*
A	29 568 761	31 400 042	30 810 619	33 586 437	38 992 758	41 164 534	53 318 125
S	29 549 724	31 344 644	32 896 327	35 703 435	39 916 972	42 295 572	55 090 705 1/
O	33 070 022	35 902 602	34 970 472	37 386 689	41 775 594	48 601 886	
N	33 084 713	33 709 581	34 300 610	38 843 424	43 881 507	49 478 825	
D	26 338 721	28 128 922	29 016 347	32 992 528	37 256 576	42 207 610	
Year	339 096 803	368 283 280	373 568 657	397 608 593	448 106 023	502 499 271	
Seasonally adjusted values							
J	26 398 902	30 500 217	31 054 418	31 405 965	33 866 598	39 802 871	47 352 438
F	26 821 197	30 516 799	30 616 855	31 345 108	35 796 420	40 120 835	47 658 954
M	26 885 906	28 703 246	30 948 376	31 488 490	36 395 161	40 816 538	47 093 919
A	27 720 787	32 100 228	31 485 133	32 281 984	34 716 134	40 317 575	53 377 218
M	28 440 099	30 704 487	30 380 928	32 705 488	36 926 946	40 924 943	51 360 002
J	28 033 641	30 216 837	31 244 539	32 531 442	37 889 488	41 793 853	49 270 006
J	28 367 131	31 171 682	31 861 213	33 537 495	36 626 712	41 699 243	52 506 515
A	28 809 123	30 749 114	30 346 911	33 237 052	38 576 928	40 698 290	52 752 732
S	28 370 445	30 168 475	31 778 436	34 645 295	38 720 246	41 151 184	53 705 000
O	29 570 551	32 165 997	31 378 400	33 744 509	38 059 969	44 434 104	
N	29 741 216	30 329 713	30 814 359	34 845 796	39 527 200	44 397 239	
D	29 271 686	30 824 207	31 459 397	35 806 299	40 375 027	45 388 541	

* 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		
		September	August	September/	September	August	September
		2001	2001	2002	2001	2002	
Food and food products	67 534 885	5 651 784	7 017 958	7 213 543	5 767 164	7 047 760	7 358 484
Meat, fish, fruit etc.	20 191 117	1 784 029	2 302 972	2 321 330	1 810 536	2 327 166	2 354 068
Dairy products	7 941 251	637 470	785 700	761 505	635 882	767 955	762 100
Grain mill products	17 779 456	1 538 603	2 099 991	2 159 901	1 584 296	2 089 407	2 219 024
Other food products	21 623 061	1 691 682	1 829 295	1 970 807	1 736 450	1 863 232	2 023 292
Beverages	23 706 465	2 087 004	2 306 546	2 297 764	2 039 625	2 479 970	2 247 849
Total textiles	11 022 124	955 174	1 246 305	1 215 232	908 416	1 176 581	1 155 929
Textiles	6 965 073	613 035	817 824	791 453	573 999	752 925	741 485
Other textile products	4 057 051	342 139	428 481	423 779	334 417	423 656	414 444
Total wearing apparel	10 927 300	964 786	1 124 133	1 098 274	867 199	1 066 543	992 581
Knitted, crocheted articles	1 846 405	156 501	192 788	189 556	154 245	188 428	187 075
Wearing apparel	9 080 895	808 285	931 345	908 718	712 954	878 115	805 506
Tanning and dressing of leather	2 803 508	199 969	309 340	271 937	215 419	328 704	297 217
Footwear	1 974 373	178 489	204 589	204 691	155 414	185 228	180 245
Wood and products of wood	10 173 522	874 097	1 137 724	1 161 592	825 373	1 108 715	1 097 205
Sawmilling and planing of wood	2 760 863	238 763	307 649	308 774	225 351	298 556	293 214
Products of wood	7 412 659	635 334	830 075	852 818	600 022	810 159	803 991
Paper and paper products	25 164 997	2 259 648	2 407 137	3 033 256	2 082 718	2 515 901	2 774 558
Total publishing and printing	12 318 990	1 089 445	1 211 136	1 222 210	1 053 586	1 202 157	1 182 856
Publishing	5 137 601	455 033	439 244	450 571	436 512	435 256	431 872
Printing, recorded media	7 181 389	634 412	771 892	771 639	617 074	766 901	750 984
Coke and refined petroleum products	36 708 220	2 797 449	4 152 296	3 850 056	2 886 290	3 860 071	4 004 434
Basic chemicals	25 202 064	1 956 832	2 610 998	3 025 257	1 923 894	2 704 117	2 973 684
Other chemical products	29 537 288	2 493 052	3 073 546	3 092 424	2 412 460	3 072 900	3 005 420
Rubber products	5 324 083	352 753	555 758	557 758	338 409	536 196	538 043
Plastic products	12 261 989	1 055 041	1 347 172	1 338 569	1 010 677	1 313 015	1 284 733
Glass and glass products	2 841 584	256 773	284 780	326 514	234 856	283 596	299 695
Other non-metallic mineral products	12 216 261	1 055 305	1 312 334	1 305 095	1 003 215	1 213 317	1 249 871
Basic iron and steel products	35 607 441	3 035 302	4 534 793	4 875 331	2 995 973	4 511 801	4 813 423
Basic precious and non-ferrous metal products	17 972 477	1 525 368	1 746 500	1 863 788	1 457 516	1 748 059	1 777 784
Fabricated metal products	27 694 470	2 425 919	3 172 339	3 159 859	2 303 670	2 945 921	3 018 585
Structural metal products	9 132 860	798 029	1 044 516	972 496	780 079	963 355	964 805
Other fabricated metal product	18 561 610	1 627 890	2 127 823	2 187 363	1 523 591	1 982 566	2 053 780
Total machinery and equipment	21 839 183	1 792 696	2 313 166	2 359 843	1 645 511	2 262 294	2 174 367
General purpose machinery	9 421 686	796 364	906 312	1 110 857	649 401	873 097	903 155
Special purpose machinery	10 085 479	788 168	1 230 898	1 045 964	800 152	1 215 961	1 079 304
Household appliances	2 332 018	208 164	175 956	203 022	195 958	173 236	191 909
Electrical machinery, apparatus	13 981 876	1 235 935	1 502 357	1 449 482	1 164 130	1 468 224	1 369 100
Radio, television and communication apparatus	3 634 854	275 457	358 862	468 949	262 459	318 302	445 079
Professional equipment	1 657 936	137 677	185 055	168 265	137 478	178 619	168 964
Motor vehicles; trailers; parts and accessories	65 043 901	5 642 754	6 731 853	6 972 841	5 479 022	6 800 413	6 738 973
Motor vehicles	45 822 893	3 926 743	4 720 519	4 811 430	3 837 380	4 742 892	4 677 338
Bodies for motor vehicles; trailers and semi-trailers	1 620 464	144 036	176 032	201 835	136 000	177 092	190 542
Parts and accessories	17 600 544	1 571 975	1 835 302	1 959 576	1 505 641	1 880 429	1 871 093
Other transport equipment	3 373 967	302 231	296 191	475 460	289 206	316 334	456 143
Furniture	6 227 972	553 894	655 235	629 629	512 944	613 356	586 510
Other manufacturing divisions	15 747 541	1 140 738	1 520 022	1 453 086	1 178 562	1 494 637	1 513 266
Total	502 499 271	42 295 572	53 318 125	55 090 705	41 151 184	52 752 732	53 705 000

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	September	August	September 1/	September	August	September
	2001	2002		2001	2002	
Spinning, weaving and finishing of textiles	213 167	336 484	332 882	220 137	341 923	346 263
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	35 380	36 047	37 844	33 802	36 433	35 955
Other textile articles	73 396	79 874	91 147	67 967	80 025	83 641
Knitted and crocheted fabrics and articles	105 610	131 496	145 125	101 202	138 485	139 428
Wearing apparel	739 507	836 103	917 891	667 970	827 665	830 650
Sawmilling and preserving of timber	23 367	14 613	22 119	21 745	14 185	20 482
Veneer sheets, plywood, laminboard, etc.	24 745	31 075	34 814	24 738	30 621	34 754
Builders' carpentry and joinery	38 255	45 947	42 948	38 712	43 513	43 193
Pulp, paper and paperboard	289 951	301 434	246 556	296 113	268 991	254 331
Corrugated paper and paperboard and containers	330 865	385 922	378 215	326 613	379 051	374 010
Paints, varnishes and coatings	25 023	17 240	23 026	21 720	18 112	20 316
Basic iron and steel products	3 621 772	5 172 751	5 097 481	3 564 278	5 106 103	5 014 151
Steel pipe and tube mills	163 898	558 978	523 359	173 455	552 485	562 161
Basic precious and non-ferrous metal products	1 798 841	1 763 020	1 781 919	1 809 718	1 725 262	1 795 569
Metal structures, parts	1 583 723	1 600 566	1 519 776	1 543 162	1 512 206	1 473 466
Cutlery, hand tools and general hardware	19 924	12 553	14 498	21 246	14 924	15 612
Metal containers, e.g. cans and tins	78 404	70 424	70 814	78 502	71 319	70 749
Cables, wire products, springs	62 051	60 858	64 725	60 393	62 539	62 889
Metal fasteners	69 445	84 669	84 365	70 164	86 106	85 012
All other metal products	628 133	871 881	887 418	639 679	872 627	913 176
Domestic appliances	33 412	29 323	32 754	30 678	28 917	29 855
Electric motors, generators and transformers	359 200	552 883	541 631	349 536	516 293	527 660
Insulated wire and cables	311 095	392 146	408 181	304 502	398 513	398 614
Accumulators, primary cells and primary batteries	11 405	5 344	5 707	12 095	5 747	6 069
Television, radio and communication apparatus	2 010 098	2 213 205	2 102 473	2 053 744	2 166 690	2 177 826
Motor vehicles	2 503 208	2 554 283	2 638 460	2 469 599	2 655 656	2 588 547
Parts and accessories for motor vehicles	288 895	619 026	579 642	291 132	552 369	583 422
Furniture	376 401	325 698	337 287	290 587	314 771	260 692

* 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 July 2001 to September 2001	Percentage change between July 2001 to September 2001 and July 2002 to September 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 July 2001 to September 2001 and July 2002 to September 2002
				R'000
Food and food products	13,5	25,3	3,4	4 254 266
Beverages	4,5	16,9	0,8	938 436
Total textiles	2,3	26,6	0,6	765 648
Total Wearing apparel	2,3	14,6	0,3	412 600
Tanning and dressing of leather	0,5	43,3	0,2	259 032
Footwear	0,4	13,9	0,1	74 286
Wood and products of wood	2,1	28,8	0,6	743 030
Paper and paper products	5,1	25,7	1,3	1 622 598
Total publishing and printing	2,5	14,6	0,4	451 512
Coke and refined petroleum products	7,4	31,4	2,3	2 914 879
Basic chemicals	4,9	32,8	1,6	2 019 224
Other chemical products	5,9	22,7	1,3	1 681 911
Rubber products	1,1	24,0	0,3	333 045
Plastic products	2,5	29,0	0,7	895 512
Glass and glass products	0,6	24,5	0,1	176 023
Other non-metallic mineral products	2,6	23,1	0,6	736 561
Basic iron and steel products	7,1	50,5	3,6	4 449 226
Basic precious and non-ferrous metal products	3,4	29,3	1,0	1 243 427
Fabricated metal products	5,8	27,1	1,6	1 964 058
Total machinery and equipment	4,5	25,0	1,1	1 410 161
Electrical machinery, apparatus	2,9	23,8	0,7	849 853
Radio, television and communication apparatus	0,7	35,8	0,3	299 700
Professional equipment	0,3	25,2	0,1	105 330
Motor vehicles; trailers; parts and accessories	12,2	36,8	4,5	5 608 092
Other transport equipment	0,7	20,5	0,1	186 019
Furniture	1,3	15,9	0,2	260 676
Other manufacturing divisions	2,9	23,8	0,7	868 984
Total	100,0	28,5	28,5	35 524 089

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 July 2002 to September 2002 R'000	Percentage change between April 2002 to June 2002 and July 2002 to September 2002	Difference in seasonally adjusted sales of manufacturing divisions between April 2002 to June 2002 and July 2002 to September 2002 R'000
Food and food products	21 390 891	+4,4	897 289
Beverages	6 992 350	+6,0	393 232
Total textiles	3 466 308	+2,8	92 810
Total Wearing apparel	3 090 792	+1,1	33 078
Tanning and dressing of leather	912 353	+8,7	72 802
Footwear	553 678	+8,3	42 631
Wood and products of wood	3 190 557	-0,5	14 466
Paper and paper products	7 820 012	+5,1	376 976
Total publishing and printing	3 553 706	-0,2	5 714
Coke and refined petroleum products	12 061 706	+4,4	503 428
Basic chemicals	8 291 536	+4,9	390 983
Other chemical products	9 047 552	+0,5	42 441
Rubber products	1 660 479	+3,5	56 438
Plastic products	3 889 650	+2,5	95 014
Glass and glass products	867 052	+6,3	51 454
Other non-metallic mineral products	3 736 773	+6,0	212 357
Basic iron and steel products	13 464 925	+17,0	1 960 568
Basic precious and non-ferrous metal products	5 430 756	-2,4	131 803
Fabricated metal products	8 822 064	+2,7	230 962
Total machinery and equipment	6 781 200	-3,4	238 615
Electrical machinery, apparatus	4 300 642	+1,4	58 675
Radio, television and communication apparatus	1 100 755	-0,6	6 996
Professional equipment	517 153	+2,5	12 752
Motor vehicles; trailers; parts and accessories	20 528 731	-1,5	314 112
Other transport equipment	1 097 803	+0,1	1 607
Furniture	1 804 559	-2,9	53 672
Other manufacturing industries	4 590 265	+4,5	196 903
Total	158 964 246	+3,2	4 957 020

