

Dipalopalo tsa Aforika Borwa • Statistieke Suid-Afrika • Tistatistiki ta Afrika-Dzonga • Ukuqokelelwa kwamanani eNingizimu Afrika

# Manufacturing: production and sales

August 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.

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.

**Embargo: 13:00** 

Date: 8 October 2002

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

Actual estimates	August 2002	% change between August 2001 and August 2002	% change between June 2001 to August 2001 and June 2002 to August 2002	% change between January 2001 to August 2001 and January 2002 to August 2002
Physical volume				
manufacturing production index (1995=100)	117,4	+8,2	+5,5	+5,8
Total value of				
of manufactured products (R million)	53 146,8	+28,9	+24,0	+22,8

(It million)			
Seasonally adjusted estimates	August 2002	% change between July 2002 and August 2002	% change between March 2002 to May 2002 and June 2002 to August 2002
Physical volume of manufacturing production index (1995=100) Total value of	116,2	+0,4	-1,2
of manufactured products (R million)	52 476,4	-0,5	+1,5

sales

of

sales

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

### MANUFACTURING PRODUCTION DECREASES

Manufacturing production for the three months ended August 2002 reflected a decrease of 1,2% after seasonal adjustment compared with the previous three months. Lower production was reported by 20 of the 27 manufacturing divisions. However, the actual manufacturing production for the first eight months of 2002 reflected an increase of 5,8% compared with the first eight months of 2001.

The major contributors to the decrease of 1,2% after seasonal adjustment in the total manufacturing production were the textile (-0,2 of a percentage point), basic chemicals (-0,2 of a percentage point), 'other' chemical products (-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. However, these decreases were partially counteracted by a large increase reported by the basic iron and steel products division which contributed +0,9 of a percentage point to the seasonally adjusted quarterly percentage change in total manufacturing production (cf. table A).

### SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products at current prices for the three months ended August 2002 reflected an increase of 1,5% (+R2 287 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 August 2002 reflected an increase of 24,0% (+R30 037 million) compared with the three months ended August 2001. Higher manufacturing sales were reported by all 27 manufacturing divisions during this period.

The increase of 1,5% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended August 2002 compared with the previous three months was mainly due to large increases reported by the basic iron and steel products (+10,3% or +R1 150 million), food and food products (+5,6% or +R1 121 million), beverage (+5,6% or +R366 million), machinery and equipment (+3,9% or +R264 million) and coke and refined petroleum products (+3,8% or +R446 million) divisions (cf. table B).

The major contributors to the increase of 24,0% in the actual value of sales of manufactured products at current prices for the three months ended August 2002 compared with the three months ended August 2001 were the motor vehicles, trailers, parts and accessories (+3,7 percentage points or +R4 609 million), food and food products (+3,5 percentage points or +R4 444 million), basic iron and steel products (+2,9 percentage points or +R3 600 million), coke and refined petroleum products (+2,2 percentage points or +R2 730 million), 'other' chemical products (+1,2 percentage points or +R1 508 million), fabricated metal products (+1,2 percentage points or +R1 484 million) and machinery and equipment (+1,2 percentage points or +R1 456 million) divisions (cf. table C).

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### **Notes**

Forthcoming issues	Issue		Expected release date
	October	per 2002	12 November 2002 10 December 2002 14 January 2003 11 February 2003
Purpose of the survey	covering establish results indices	g a sample of partial partial partial graph graph graph and a sample of this survey are under the sample of the sample of the sample of partial graph	g Production and Sales Survey is a country-wide sample survey rivate establishments, public corporations and government the manufacturing industry in the South African economy. The used to calculate physical volume of manufacturing production the Gross Domestic Product (GDP) to monitor and develop
Additional inform	nation	1	
<b>Explanatory notes</b>			
Introduction	n p d p	manufacturing indus bublic corporations a letailed information production, the total	rica (Stats SA) conducts a monthly sample survey of the try covering private manufacturing establishments (branches), and government establishments. This statistical release contains regarding indices of the physical volume of manufacturing value of sales of manufactured products and unfilled orders, eturing divisions and major groups on a monthly basis.
	to b	o a new base year.	rnational practice, the indices have to be rebased every five years The indices in this statistical release have been calculated on the nee November 1997. Both actual and seasonally adjusted figures
	h	nave been estimated	timeliness, some information for the current month (August) due to late response. These estimates will be revised in the se(s) as soon as more up-to-date information is available.
Scope of the survey	<b>4</b> T	This survey covers ma	anufacturing establishments conducting activities regarding -
	•	the slaughtering of	processing, making or packing of products; animals, including poultry; and bly, completion, repair and related work.
Classification	(the contraction of the contract	SIC), Fifth Edition, he survey. The S Classification of all conditions. Statistics and subgroup level.	the Standard Industrial Classification of all Economic Activities Report No. 09-90-02, was used to classify the statistical units in SIC is based on the 1990 International Standard Industrial Economic Activities (ISIC) with suitable adaptations for local in this publication are presented at SIC division, major group Each statistical unit is classified to an industry which reflects the of the establishment (branch).
Statistical unit	6 T		unit for the collection of information is the manufacturing

# Survey methodology and 7 design

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

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 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.
- 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 nine 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, motor vehicles, trailers, parts and accessories, bodies for motor vehicles, parts and accessories 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, motor vehicles, trailers, parts and accessories, bodies for motor vehicles and parts and accessories 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

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.
- 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 13 total manufacturing industry

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

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

The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.

### Reliability of estimates

17

16 Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.

### Historical data

More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups and the value of sales for the period January 1990 to September 1999 were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.

### **Related publications**

- 18 Users may also wish to refer to the following publications which are available from Stats SA -
  - P3041.3 Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999.
  - P3041.4 Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.
  - Bulletin of Statistics.
  - SA Statistics.
  - P0441 Gross Domestic Product.

### **Unpublished statistics**

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**

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 August 2002 is 80,4%. The response rates by manufacturing major division are tabulated in table D.

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

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	306	81,0
Beverages	65	90,8
Textile	111	91,9
Total wearing apparel	128	89,1
Tanning and dressing of leather	26	92,3
Footwear	21	90,5
Wood and products of wood	123	69,1
Paper and paper products	93	83,9
Total publishing and printing	89	74,2
Coke and refined petroleum products	30	80,0
Basic chemicals	77	87,0
Other chemical products	108	86,1
Rubber products	18	100,0
Plastic products	88	80,7
Glass and glass products	14	71,4
Other non-metallic mineral products	133	72,9
Basic iron and steel products	42	83,3
Basic precious and non-ferrous metal products	23	78,3
Fabricated metal products	230	80,0
Total machinery and equipment	181	76,2
Electrical machinery, apparatus	76	78,9
Radio, television and communication apparatus	23	65,2
Professional equipment	29	65,5
Motor vehicles; trailers; parts and accessories	115	79,1
Other transport equipment	35	94,3
Furniture	60	66,7
Other manufacturing industries	82	76,8
Total	2 326	80,4

### 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 -

- 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.

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

Percentage Average Ouarterly Contribution Manufacturing contribuseasonally percentage (percentage tion to the change Divisions adjusted points) to total manuproduction (June 2002 the seaso-nally adjusfacturing index for to August 2002 production the three ted quarterly in the base months compared percentage vear 1995 June 2002 with the change in total manu-(Weights) preceding to August 2002 three months) facturing production 1 Food and food products 10,7 100,2 +0,6 -5,9 -0,4 +0,0 Beverages Total textiles 4,6 2,9 105,2 101,3 Total wearing apparel 3,6 84,2 Tanning and dressing of leather +2,9 +0,0 0,9 Footwear 52.0 +2,4 +0,0 Wood and products of wood 126,4 -1,1 Paper and paper products 5,3 109,1 -0,1 Total publishing and printing 81,9 -3,1 -0,1 4,1 Coke and refined petroleum products 4,2 105,0 -2,7 -5,3 -0,1 -0,2 Basic chemicals 4,5 158,6 6,2 112,5 105,5 -2,8 -3,2 -0,2 -0,1 Other chemical products Rubber products Plastic products 116,3 +4,3 +0,1 Glass and glass products 1,0 105,0 -1,5 -0,0 Other non-metallic mineral 93,4 -7,0 3,5 -0,2 products Basic iron and steel products Basic precious and non-ferrous 7,6 127,6 +12,1 +0,9 177.4 3,2 -1,7 -0.1 metal products Fabricated metal products -1,0 -0,1 7,0 123,6 Total machinery and equipment Electrical machinery, apparatus Radio, television and -1,7 +2,3 122,4 -0,1 3,4 110,7 +0,1 communication apparatus 83,7 -11,7 -0,1 Professional equipment Motor vehicles; trailers; 0,5 100,6 +7,1 +0,0 132,5 8.0 -1.1 -0.1 parts and accessories 1,0 -0,1 -0,1 Other transport equipment 101,9 -8,4 Furniture Other manufacturing divisions 114,4 -6,5 -0.2 100,0 114,6 -1,2

<sup>1/</sup> 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	108,3	110,6
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	111,7
M	104,1	106,2	101,1	100,7	105,9	106,9	117,8
J	102,9	104,9	104,5	100,0	108,3	111,5	113,0
J	104,7	108,2	104,4	103,6	106,3	109,3	117,0
A	107,8	105,8 108,2	99,9	102,7	108,7	108,5	117,4
S	105,2	108,2	106,8	106,1	111,0	109,7	
0	115,8	119,1	111,7	112,6	116,7	122,4	
N	114,4	111,7	109,8		120,1	124,8	
D	83,7	86,9	85,3	91,3	95,0	97,1	
Year	101,5	104,3	101,1	101,4	106,0	109,0	
				Seasonally adju	sted indices		
J	98,9	105,2	104,1	101,4	103,6	108,9	113,5
J F	98,9 98,6	105,2 105,1			103,6 105,7	108,9 109,8	113,5 111,7
	98,6 99.1	105,1	104,1	101,4 99,9 99,3	105,7 107,3		
F	98,6 99.1	105,1	104,1 102,7	101,4 99,9	105,7 107,3	109,8	111,7
F M	98,6 99,1 102,0	105,1	104,1 102,7 100,1	101,4 99,9 99,3 100,0	105,7	109,8 109,3 106,0	111,7 111,8
F M A	98,6 99,1 102,0 103,9	105,1 99,7 110,8	104,1 102,7 100,1 101,1	101,4 99,9 99,3 100,0	105,7 107,3 99,5	109,8 109,3 106,0 106,4	111,7 111,8 118,9
F M A M	98,6 99,1 102,0 103,9 101,6	105,1 99,7 110,8 105,4 103,5 106,0	104,1 102,7 100,1 101,1 100,3	101,4 99,9 99,3 100,0 100,3 98,8	105,7 107,3 99,5 105,4	109,8 109,3 106,0 106,4	111,7 111,8 118,9 117,4
F M A M J	98,6 99,1 102,0 103,9 101,6	105,1 99,7 110,8 105,4 103,5 106,0 103,4	104,1 102,7 100,1 101,1 100,3 103,1	101,4 99,9 99,3 100,0 100,3 98,8	105,7 107,3 99,5 105,4 106,8	109,8 109,3 106,0 106,4 110,2	111,7 111,8 118,9 117,4 111,9
F M A M J	98,6 99,1 102,0 103,9 101,6 102,7	105,1 99,7 110,8 105,4 103,5 106,0 103,4	104,1 102,7 100,1 101,1 100,3 103,1 102,4	101,4 99,9 99,3 100,0 100,3 98,8 102,0	105,7 107,3 99,5 105,4 106,8 104,8	109,8 109,3 106,0 106,4 110,2 108,0	111,7 111,8 118,9 117,4 111,9
F M A M J J	98,6 99,1 102,0 103,9 101,6 102,7 104,8 100,4 103,5	105,1 99,7 110,8 105,4 103,5 106,0 103,4 103,5 106,5	104,1 102,7 100,1 101,1 100,3 103,1 102,4 98,2	101,4 99,9 99,3 100,0 100,3 98,8 102,0 101,4	105,7 107,3 99,5 105,4 106,8 104,8 107,5	109,8 109,3 106,0 106,4 110,2 108,0 107,4	111,7 111,8 118,9 117,4 111,9
F M A J J A	98,6 99,1 102,0 103,9 101,6 102,7 104,8 100,4 103,5	105,1 99,7 110,8 105,4 103,5 106,0 103,4	104,1 102,7 100,1 101,1 100,3 103,1 102,4 98,2 102,5	101,4 99,9 99,3 100,0 100,3 98,8 102,0 101,4 102,2	105,7 107,3 99,5 105,4 106,8 104,8 107,5	109,8 109,3 106,0 106,4 110,2 108,0 107,4 106,1	111,7 111,8 118,9 117,4 111,9

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

Base 1995 = 100

Manufacturing			Í		es 			
	İ	ĺ	  August 	July	August 1/	  August 	July	August
	1							
Food and food products	10,7	104,3	103,3	96,3	97,3	103,3	100,0	97,7
Meat, fish, fruit etc.	2,8	120,0	117,3	122,1	123,6	121,4	132,3	128,9
Dairy products	1,4	92,4	97,7	83,5	91,8	93,8	89,2	87,8
Grain mill products	2,1	99,8	104,5	102,6	102,9	102,6	101,5	100,8
Other food products	4,4	100,1	95,4	80,6	79,5	95,0	82,0	79,4
Beverages	4,6	98,5	89,7	82,7	102,3	98,3	99,2	112,4
Moutiles	2,9	90,4	1 00,0	107,8	106,1	96,0	101,7	101,8
Other textile products	1 1 2	1110 8	1 107 2	124 2	105,2	67,0   108.8	118 7	109 8
Total wearing apparel	3 6	78 9	1 85 8	82 6	90 7	1 80 8	83 9	85 2
Knitted, crocheted articles	0.6	76.5	81.7	85.8	86.5	79.4	85.1	84.2
Wearing apparel	3,0	79,4	86,6	81,9	91,6	81,1	83,6	85,5
Tanning and dressing of leather	0,4	114,8	92,7	122,8	131,0	95,7	123,8	137,2
Footwear	0,9	53,9	57,4	59,4	57,6	52,3	59,0	52,3
Wood and products of wood	1,9	120,8	119,3	122,7	138,6	115,0	120,7	133,6
Sawmilling and planing of wood	0,8	101,5	93,5	101,7	122,5	87,5	96,5	115,0
Products of wood	1,2	133,4	136,3	136,4	149,2	133,1	136,6	145,9
Paper and paper products	5,3	103,5	99,0	108,6	105,9	100,9	109,1	108,7
Total publishing and printing	4,1	83,8	84,4	77,1	83,3	83,3	79,5	82,2
Publishing	1,5	96,2	98,8	80,9	86,1	99,0	87,6	86,2
Food and food products Meat, fish, fruit etc. Dairy products Grain mill products Other food products Beeverages Total textiles Textiles Other textile products Total wearing apparel Knitted, crocheted articles Wearing apparel Tanning and dressing of leather Footwear Wood and products of wood Sawmilling and planing of wood Products of wood Paper and paper products Total publishing and printing Publishing Printing, recorded media Coke and refined petroleum	2,6	76,8 	76,3	75,0	81,8	74,5	75,0	79,9
products	4,2	104,6	103,9	105,6	99,2	103,7	106,8	98,9
Basic chemicals	4,5	140,3	134,0	154,6	150,4	141,8	158,0	159,5
Other chemical products	6,2	106,1	106,6	114,4	99,2 150,4 111,8 105,9 120,5 106,2	107,9	113,8	113,1
Rubber products	1,4	99,3	111,6	119,7	105,9	109,1	113,9	104,2
Plastic products Glass and glass products	3,1	97,0	96,6	118,5	120,5	95,1	115,8	118,6
Other non-metallic mineral	1 1,0	1 20,9	1 101,9	100,0	100,2	95,1 	107,2	99,0
products	1 3 5	   97 9	l l 105-1	102 4	101 1	   99.7	99 0	95 6
Basic iron and steel products	7 6	1116 2*	119 0	135 9	101,1 135,1	1160	127 5	131 4
metal products	3,2	171,8	179,5	187,1	185,5	173,7	177,9	179,2
Fabricated metal products	7,0	111,1*	120,0	126,4	139,3	112,0	124,2	129,1
Structural metal products	2,4	101,4*	116,5	107,6	120,2	108,2	105,9	110,5
Other fabricated metal products	4,6	116,1	121,8	136,1	149,1	113,9	133,6	138,6
Total machinery and equipment	5,8	109,0*	118,7	129,5	130,4	114,7	125,4	126,3
General purpose machinery	2,5	113,0*	129,0	130,0	124,1	122,3	123,5	117,7
Special purpose machinery	2,9	104,3	108,5	128,4	140,2	106,8	126,9	137,8
Basic precious and non-ferrous metal products Fabricated metal products Structural metal products Other fabricated metal products Total machinery and equipment General purpose machinery Special purpose machinery Household appliances Electrical machinery, apparatus Radio, television and	0,4	118,8	127,9	133,9	98,8	124,3	125,6	96,1
Electrical machinery, apparatus	3,4	102,7	98,9	112,4	112,8	100,6	111,7	115,3
Radio, television and	1 1 0	04 =		74.6	00.0	07.5	70 5	06.0
communication apparatus Professional equipment	1 0 5	94,5	89,9	104.0	88,9 107,8	87,5   06 E	78,5	102 5
Motor vehicles; trailers;	0,5	03,4	] 90,1	104,9	107,0	00,5	91,5	103,5
parts and accessories	8,0	130.1*	108.3	149.3	134.6	108.7	142.1	134.7
Motor vehicles	4,5	127.6	88.7	132,5	134,6 123,8	88.5	125,6	123,1
Bodies for motor vehicles;	1	1	I			I		
trailers and semi-trailers	0,5	66,7	51,0	69,5	71,4	51,7	74,9	73,4
Parts and accessories	3,0	145,6*	148,2	189,0	162,5	149,3	179,3	163,4
Other transport equipment	1,0	122,1	131,7	121,2	101,3	136,7	114,2	106,0
Furniture	1,6	98,2	99,7	108,4	110,2	98,2	110,9	108,9
trailers and semi-trailers Parts and accessories Other transport equipment Furniture Other manufacturing divisions								
Total	100,0	109,0	108,5	117,0	117,4	107,4	115,7	116,2

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

Month	1	1996			1997		19	998		:	1999		:	2000		:	2001	k	2	2002	
										Actua:	l vai	lues									
J	21	803	249	25	254	480	25	913	926	26	407	920	28	656	999	34	048	668	40	363	001*
F	26	328	500	29	866	793	29	901	544	30	601	551	35	032	589	39	242	945	46	661	156*
M	28	188	286	29	866	272	32	190	538	32	784	131	38	106	013	42	745	053	49	401	916*
A	26	231	967	30	438	604	29	758	879	30	497	742	32	716	838	37	880	330	49	827	438*
M	28	293	052	30	626	091	30	352	835	32	731	846	37	110	010	41	201	304	51	768	960*
J	28	261	416			542	31	723	893	33	108	598		779		42	804	155	50	289	164*
J	28	378	392	31	169	707	31	732	667	33	319	382	36	303	946	41	260	376	51	895	290
A		568				042		810			643			061				161	53	146	768 1
S	29	549	724	31	344	644	32	896	327	35	776	740	39	988	077	42	412	455			
0	33	070	022	35	902	602	34	970	472	37	452	163	41	849	266	48	680	168			
N	33	084	713	33	709	581	34	300	610	38	913	647	43	959	297	49	568	579			
D	26	338	721	28	128	922	29	016	347	33	052	001	37	317	870	42	304	959			
Year	339	096	803	368	283	280	373	568	657	398	289	028	448	882	075	503	379	153			
										Seasona	ally	adjı	ısted	valı	ies						
 J	26	393	742	30	490	909	31	043	943			adji 737			 ies 	39	865	818	47	460	  769
J		393 819				909				31		737	33	874				818 070		460 764	
	26		293	30	511		30	609	943	31 31	445	737 217	33 35	874 860	609	40	161		47		157
F	26 26	819	293 008	30 28	511 704	673	30 30	609 947	943 213	31 31 31	445 389 537	737 217	33 35 36	874 860 461	609 781	40 40	161 875	070	47 47	764	157 737
F M	26 26 27	819 889	293 008 827	30 28 32	511 704 100	673 942	30 30 31	609 947 486	943 213 567	31 31 31 31 32	445 389 537	737 217 390 194	33 35 36 34	874 860 461	609 781 138 669	40 40 40	161 875 370	070 580	47 47 53	764 216	157 737 022
F M A	26 26 27 28	819 889 720	293 008 827 630	30 28 32 30	511 704 100 703	673 942 599	30 30 31 30	609 947 486 378	943 213 567 720	31 31 31 31 32 32	445 389 537 337	737 217 390 194 189	33 35 36 34 36	874 860 461 780	609 781 138 669 523	40 40 40 40	161 875 370 977	070 580 762	47 47 53 51	764 216 476	157 737 022 836
F M A M	26 26 27 28 28	819 889 720 439	293 008 827 630 063	30 28 32 30 30	511 704 100 703 219	673 942 599 315	30 30 31 30 31	609 947 486 378 254	943 213 567 720 222	31 31 31 32 32 32	445 389 537 337 756	737 217 390 194 189 158	33 35 36 34 36 37	874 860 461 780 990	609 781 138 669 523 020	40 40 40 40 41	161 875 370 977 903	070 580 762 602	47 47 53 51 49	764 216 476 457	157 737 022 836 072
F M A M J	26 26 27 28 28 28	819 889 720 439 034	293 008 827 630 063 190	30 28 32 30 30 31	511 704 100 703 219	673 942 599 315 750 950	30 30 31 30 31 31	609 947 486 378 254 878	943 213 567 720 222 496	31 31 31 32 32 32 32 33	445 389 537 337 756 611	737 217 390 194 189 158 179	33 35 36 34 36 37 36	874 860 461 780 990 991	609 781 138 669 523 020 482	40 40 40 40 41 41	161 875 370 977 903 832	070 580 762 602 804	47 47 53 51 49 52	764 216 476 457 240	157 737 022 836 072 239
F M A M J J	26 26 27 28 28 28	819 889 720 439 034 371	293 008 827 630 063 190 165	30 28 32 30 30 31 30	511 704 100 703 219 180 744	673 942 599 315 750 950	30 30 31 30 31 31 31	609 947 486 378 254 878 341	943 213 567 720 222 496 267	31 31 31 32 32 32 33 33	445 389 537 337 756 611 626	737 217 390 194 189 158 179 996	33 35 36 34 36 37 36 38	874 860 461 780 990 991 728	609 781 138 669 523 020 482 748	40 40 40 40 41 41 40	161 875 370 977 903 832	070 580 762 602 804 179 848	47 47 53 51 49 52	764 216 476 457 240 721	157 737 022 836 072 239
F M A M J J	26 26 27 28 28 28 28 28	819 889 720 439 034 371 808	293 008 827 630 063 190 165 291	30 28 32 30 30 31 30 30	511 704 100 703 219 180 744 166	673 942 599 315 750 950 928	30 30 31 30 31 31 30 31	609 947 486 378 254 878 341 778	943 213 567 720 222 496 267 132	31 31 31 32 32 32 33 33 33	445 389 537 337 756 611 626 272	737 217 390 194 189 158 179 996 560	33 35 36 34 36 37 36 38 38	874 860 461 780 990 991 728 607 813	609 781 138 669 523 020 482 748	40 40 40 41 41 40 41	161 875 370 977 903 832 695	070 580 762 602 804 179 848 753	47 47 53 51 49 52	764 216 476 457 240 721	157 737 022 836 072 239
F M A M J J A	26 26 27 28 28 28 28 28 28 29 29	819 889 720 439 034 371 808 367	293 008 827 630 063 190 165 291 981 821	30 28 32 30 30 31 30 30 30 32	511 704 100 703 219 180 744 166 170	673 942 599 315 750 950 928 089	30 30 31 30 31 31 30 31 31	609 947 486 378 254 878 341 778 381	943 213 567 720 222 496 267 132 682	31 31 31 32 32 32 33 33 33 34	445 389 537 756 611 626 272 683	737 217 390 194 189 158 179 996 560 930	33 35 36 34 36 37 36 38 38	874 860 461 780 990 991 728 607 813 131	609 781 138 669 523 020 482 748 703	40 40 40 41 41 40 41 44	161 875 370 977 903 832 695 258	070 580 762 602 804 179 848 753 333	47 47 53 51 49 52	764 216 476 457 240 721	157 737 022 836 072 239

<sup>\*</sup> Revised 1/ Preliminary

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

Manufacturing									valı						nally					ues	
divisions and major groups		Year	<u>.</u>	Aug	gust			uly			gust			ıgus			July			gust	
and major groups		200	L		2001				20	002			1	2001				2002	2		
Food and food products		324			647			862				351			422		976			004	
Meat, fish, fruit etc.		191		1	719		2	228		2	322		1	723		2	303		2	337	
Dairy products		941		! .		159	_		078	_		831			287	_		227	_	765	
Grain mill products		569 623			518 731			096 793			099 787			495 777			811	392		068 833	
Other food products Beverages		706		-	844		_	880			301		_	952			271			426	
Total textiles		022		+		122		179			160		1 +		930		138			090	
Textiles		965				114	1		056	1		824			471	_		242		754	
Other textile products		057		ŀ		008			638			284	l		459			526		336	
Total wearing apparel		957		i		109	1		362	1	128		i		349	1		394	1	074	
Knitted, crocheted articles		846		i		710	_		224	_		556	i		687	-		284	_	186	
Wearing apparel		111		i		399			138		938		i		662			110		887	
Tanning and dressing of leather		803		i		253			589			438	i		578			427		333	
Footwear		974	373	İ	176	514		199	704		203	938	İ	160	576		188	451		185	56
Wood and products of wood	10	173	522*	İ	817	300	1	025	389	1	134	039	İ	789	722		993	945	1	096	65
Sawmilling and planing of wood	2	760	863	İ	222	463		304	813		315	757	İ	214	813		293	666		305	72
Products of wood	7	412	659*		594	837			576		818	282		574	909		700	279		790	93
Paper and paper products	25	164	997	2	041	623	2	505	260	2	427	034	2	107	559	2	532	769	2	519	06
Total publishing and printing		318		1	022		1	106		1	204		1	018		1	162		1	198	
Publishing		137				507			020			914			957			587		435	
Printing, recorded media	7	181	389		590	913		692	795		766	801		589	197		721	116		762	64
Coke and refined petroleum																					
products		699			277			338				780		045			388			983	
Basic chemicals		202			020			541			565				416			686	_	626	
Other chemical products		537		2	472		2	929		3	047		2	485		2	989		3	063	
Rubber products		324		١.		216			123			767			210			609	_	543	
Plastic products		330		1	041		1	319		1	381		1	020		1	312		1	352	
Glass and glass products	2	841	584	!	229	843		280	891		281	811		227	836		279	745		278	99
Other non-metallic mineral products	1 12	216	261	1	120	0.01	1	248	220	1	263	E70	1 1	040	275	1	218	005	1	170	1.4
Basic iron and steel products		607			041			817			473			988			090			399	
Basic precious and non-ferrous	1 22	607	441	1 2	041	030	3	01/	013	4	4/3	444	4	900	007	4	090	009	4	222	23
metal products	1 17	972	477	1 1	470	474	1	870	193	1	746	500	1	460	205	1	970	766	1	747	95
Fabricated metal products		694			531			873		_	161			365			852			934	
Structural metal products		132		i -	833	700	_		419		033		i -	773	558	_	899	680	_	951	810
Other fabricated metal product		561		1	697		1	985			128		1	591		1	952		1	982	
Total machinery and equipment	21	839	183	2	016	351	2	432	128	2	310	745	1	982	784	2	379	246	2	274	36
General purpose machinery	9	421	686	i	942	773	1	028	104		915	216	ĺ	903	408		971	490		879	89
Special purpose machinery	10	085	479	ĺ	854	958	1	166	878	1	219	573	ĺ	864	480	1	177	807	1	221	53
Household appliances	2	332	018	ĺ	218	620		237	146		175	956	ĺ	214	896		229	949		172	94
Electrical machinery, apparatus	13	981	876	1	166	317	1	466	021	1	508	880	1	144	260	1	453	542	1	483	75
Radio, television and																					
communication apparatus		634				815			847			225			303			400		324	
Professional equipment	1	657	936	ļ	143	046		169	233		187	918	ļ	139	144		170	366		181	96
Motor vehicles; trailers;				ļ									ļ								
parts and accessories		043			984			138			695				132		994			794	
Motor vehicles	45	822	893	2	612	899	4	947	508	4	720	519	2	645	115	4	879	452	4	755	45
Bodies for motor vehicles;	-		464		115	0.63		000	250		100	020		115	c==		200	420		100	
trailers and semi-trailers		620		,		961	,		358	-		032	-		655	,		436	,	176	
Parts and accessories		600		ļΙ		392 216	Τ	987	970	1	799	391 564	ļ +		361 254	1	914	916 647	Τ	862 279	
Other transport equipment Furniture		373 227				216			753			960	1		742			129		621	
Other manufacturing divisions		747		1	282		1	548		1		279	1		648	1	579		1	489	
Manufacturing divisions																					
Total	i	250	1524	141	220	1 (1	F 1	005	200	F 2	1 4 6	T.C.O.		COF	0.40	E O	701	000	E O	476	40

<sup>\*</sup> Revised 1/ Preliminary

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

Selected			Ac	tual v	<i>r</i> alues		Seasonally adjusted values						
manufacturing subgroups	Augus	st	   July			t 1/	August		   Jul	Y	   Augus	st	
	200				2002		200			200			
Spinning, weaving and													
finishing of textiles	230	836	331	804	336	484	234	551	328	735	341	794	
Tents, tarpaulins, sails													
and other canvas goods and													
automotive textile goods		868		476		047		009		320		494	
Other textile articles	70	433	67	286	80	558	69	457	68	460	78	645	
Knitted and crotcheted													
fabrics and articles		317		674		496		410		653		177	
Wearing apparel	654	198	783	101	817	212	646	767	801	651	808	805	
Sawmilling and preserving							1						
of timber	24	068	18	115	11	642	23	801	17	777	11	485	
Veneer sheets, plywood,	!						1						
laminboard, etc.	25	805	24	817	23	840	25	923	23	560	23	975	
Builders' carpentry							İ						
and joinery		401	46			947		380		551		736	
Pulp, paper and paperboard	306	622	289	612	301	434	281	673	241	242	276	994	
Corrugated paper and paper-													
board and containers	372			969		687		215		983		642	
Paints, varnishes and coatings		880		477		240		094		482		043	
Basic iron and steel products	3 523		4 993		5 163		3 521		4 972		5 159		
Steel pipe and tube mills	174	452	563	233	558	978	174	089	550	069	555	218	
Basic precious and non-													
ferrous metal products	1 863		1 866		1 763		1 818		1 799		1 716		
Metal structures, parts	1 534	220	1 525	492	1 597	450	1 454	133	1 424	320	1 505	787	
Cutlery, hand tools and		005	1.0	000	10			1.40		61.0	3.4	000	
general hardware	17	086	12	900	12	553	20	149	14	613	14	998	
Metal containers, e.g. cans				0.5.4		404		0.05				0.50	
and tins		799		954		424	1	995		600		960	
Cables, wire products, springs		916		765		858		305		367		650	
Metal fasteners		744		708		669	1	174		761		050	
All other metal products		307		692		881		973		824		837	
Domestic appliances Electric motors, generators	30	156	28	781	29	323	29	556	27	448	28	836	
and transformers	1 400	503	405	320	475	677	370	998	400	593	427	590	
and transformers Insulated wire and cables		503 471		320 446		906		148		085	437		
Insulated wire and cables Accumulators, primary cells	297	4 / I	409	440	403	900	∠99	148	38/	085	405	359	
accumulators, primary cells and primary batteries	1 10	284	-	266	-	344	12	085	-	502	-	723	
and primary batteries Television, radio and	1 12	∠84	5	200	5	344	13	085	5	502	5	123	
communication apparatus	2 017	642	2 262	994	2 165	374	1 1 967	728	2 162	671	2 123	032	
Motor vehicles	2 354		2 479		2 554		2 460		2 601		2 676		
Motor Venicies Parts and accessories for	2 354	770	2 4/9	210	2 554	203	1 2 400	310	2 601	212	2 0/0	226	
motor vehicles	200	788	669	024	615	429	350	509	E06	327	551	000	
Furniture		113		925		788		615		360	326		

Table  ${\tt C}$  - Contribution of the manufacturing divisions to total value of sales of manufactured products

Percentage Percentage |Contribution| Difference Manufacturing contribution change (percentage in sales of to total value between June 2001 points) to manufacturing of sales of the percendivisions tage change in the total between manufactured to August 2001 June 2001 products June 2001 and value of to August 2001 June 2002 sales of to August 2001 t.o manufactured and August 2002 products 1/ June 2002 to August 2002 R'000 13,2 4,2 2,4 26,8 16,7 18,1 3,5 0,7 0,4 0,3 Food and food products 4 443 660 Beverages Total textiles 885 582 535 456 2,2 328 100 198 707 Total Wearing apparel Tanning and dressing of leather 0.1 29.8 Footwear 0,4 5,2 0,0 27 388 581 437 Wood and products of wood 22,5 2,1 0,5 Paper and paper products
Total publishing and printing
Coke and refined petroleum 5,0 2,4 20,2 1,0 1 258 824 451 941 7,8 27,9 2,2 2 730 144 products Basic chemicals Other chemical products 5,0 21,3 1,1 1 327 886 1 508 009 Rubber products
Plastic products 12,1 28,7 0,1 0,7 181 427 879 560 Glass and glass products 0,6 17.7 0.1 123 637 Other non-metallic mineral 2.6 10.8 0,3 351 663 products3 600 497 Basic iron and steel products 7,0 41,3 2,9 Basic precious and non-ferrous metal products 3,5 24,5 1 075 523 Fabricated metal products 20,4 25,3 1,2 1,2 0,7 5,8 1 483 826 4,6 Total machinery and equipment 1 455 792 838 768 Electrical machinery, apparatus Radio, television and 23,4 204 287 communication apparatus 0,7 22,7 0,2 Professional equipment 0,3 31,3 0,1 128 290 Motor vehicles; trailers; 3,7 4 609 267 43 014 parts and accessories 12,4 29,7 Other transport equipment 4,8 0,7 Furniture Other manufacturing divisions 225 147 558 698 13,8 0,2 14,4 0,4 3,1 100,0 24,0 24,0 30 036 530

<sup>1/</sup> 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.

 $\begin{tabular}{lll} Table $B$ - Contribution of the manufacturing divisions to the total value of seasonally adjusted sales of manufactured products \\ \end{tabular}$ 

Manufacturing Divisions	Seasc adju sal June t Augus	sted es 200	2	Percentage chamge between March 2002 to May 2002 and June 2002 to August 2002	ma	seas adj sal nufa divi bet Marc to May as Jun	2002 nd = 2002
İ	R'	000		İ	İ	-	000
Food and food products   Beverages   Total textiles   Total wearing apparel	6	300	170 351 693 968	+5,6 +5,6 -0,9 +1,6	1		
Tanning and dressing of leather Footwear Wood and products of wood Paper and paper products Total publishing and printing	3 7	529 079 493	369 348 865 202 359	+8,7 +2,9 -3,8 +1,4 +2,5		14 120 101	242 856 746 009 016
Coke and refined petroleum products Basic chemicals Other chemical products Rubber products Plastic products	7 8 1	755 967 635	130 107 977 439 654	+3,8 -2,4 +0,7 -1,9 +5,9		194 62	160 653
Glass and glass products Other non-metallic mineral products Basic iron and steel products	3	826	423 253	+2,2 -3,7 +10,3			010 321
Basic precious and non-ferrous   metal products   Fabricated metal products   Total machinery and equipment   Electrical machinery, apparatus   Radio, television and	8   6	513 983	006 180 716 887	-0,4 +2,3 +3,9 +1,4		188 264	454 227 010 286
communication apparatus Professional equipment Motor vehicles; trailers; parts and accessories	19	516 655	892	-3,1 +3,7 -5,2		18 071	
Other transport equipment Furniture Other manufacturing industries	1	900 811 376	921	-19,1 -3,5 -0,7			918 530 588
Total	154	437	714	+1,5	2	287	119

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