

**P3041.2**

**Manufacturing: production and sales**

**September 2001**

**Embargo: 13:00**

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## Key figures as at the end of September 2001

<b>Actual estimates</b>	<b>September 2001</b>	<b>% change between September 2000 and September 2001</b>	<b>% change between July 2000 to September 2000 and July 2001 to September 2001</b>	<b>% change between January 2000 to September 2000 and January 2001 to September 2001</b>
Physical volume of manufacturing production index (1995=100)	113,0	+0,5	+0,9	+2,9
Total value of sales of manufactured products (R million)	42 531,5	+6,6	+8,6	+11,3

<b>Seasonally adjusted estimates</b>	<b>September 2001</b>	<b>% change between August 2001 and September 2001</b>	<b>% change between April 2001 to June 2001 and July 2001 to September 2001</b>
Physical volume of manufacturing production index (1995=100)	108,0	+0,7	-1,0
Total value of sales of manufactured products (R million)	40 920,6	+0,3	+0,3

## Key findings as at the end of September 2001

### MANUFACTURING PRODUCTION DECREASES

*Manufacturing production for the third quarter of 2001 reflected a decrease of 1,0% after seasonal adjustment compared with the second quarter 2001. Lower production was reported by 17 of the 27 manufacturing divisions. The decrease was mainly due to strike action reported during August 2001 by the wood and products of wood, motor vehicle and rubber products manufacturers in August and September 2001. However, the actual manufacturing production for the first nine months of 2001 reflected an increase of 2,9% compared with the first nine months of 2000.*

The major contributor to the decrease of 1,0% after seasonal adjustment in the total manufacturing production was the motor vehicles, trailers, parts and accessories division (contributing -0,4 of a percentage point to total manufacturing production), followed by the paper and paper products (-0,3 of a percentage point), total wearing apparel (-0,2 of a percentage point), basic chemicals (-0,2 of a percentage point) and basic precious and non-ferrous metal products (-0,2 of a percentage point) divisions. However, these decreases were partially counteracted by large increases reported by the basic iron and steel products (contributing +0,6 of a percentage point to the total manufacturing production) and fabricated metal products (+0,3 of a percentage point) divisions (cf. table A).

## SALES OF MANUFACTURED PRODUCTS INCREASE

*The total value of sales of manufactured products at current prices for the third quarter of 2001 reflected an increase of 0,3% (+R333 million) after seasonal adjustment compared with the second quarter of 2001. Higher manufacturing sales were reported by 10 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 2001 reflected an increase of 8,6% (+R9 866 million) compared with the third quarter of 2000. Higher manufacturing sales were reported by 24 of the 27 manufacturing divisions during the latter period. The actual total value of sales of manufactured products at current prices for the first nine months of 2001 reflected an increase of 11,3% compared with the first nine months of 2000.*

The increase of 0,3% after seasonal adjustment in the total value of sales of manufactured products at current prices for the third quarter of 2001 compared with second quarter of 2001 was mainly due to large increases reported by the basic iron and steel products (+8,5% or +R706 million), fabricated metal products (+6,1% or +R405 million) and food and food products (+3,2% or +R520 million) divisions.

The major contributors to the increase of 8,6% in the actual value of sales of manufactured products at current prices for the third quarter of 2001 compared with the third quarter of 2000 were the food and food products (+1,8 percentage points or +R2 050 million), coke and refined petroleum products (+1,0 percentage point or +R1 116 million), basic iron and steel products (+0,8 of a percentage point or +R897 million), fabricated metal products (+0,7 of a percentage point or +R782 million) and motor vehicles, trailers, parts and accessories (+0,6 of a percentage point or +R742 million) divisions.

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## Notes

<b>Forthcoming issues</b>	<b>Issue</b>	<b>Expected release date</b>
	October 2001	11 December 2001
	November 2001	8 January 2002
	December 2001	12 February 2002

**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

<b>Introduction</b>	<b>1</b>	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.
	<b>2</b>	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.
	<b>3</b>	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.
<b>Scope of the survey</b>	<b>4</b>	This survey covers manufacturing establishments conducting activities regarding - <ul style="list-style-type: none"><li>• the manufacturing, processing, making or packing of products;</li><li>• the slaughtering of animals, including poultry; and</li><li>• installation, assembly, completion, repair and related work.</li></ul>
<b>Classification</b>	<b>5</b>	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).
<b>Statistical unit</b>	<b>6</b>	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).
<b>Survey methodology and design</b>	<b>7</b>	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.
	<b>8</b>	The survey is collected by mail each month from a sample of approximately 2 500 manufacturing establishments.

9 The above-mentioned measurement method in paragraph 7 was followed in 40 of the various major groups. On account of certain considerations more appropriate indicators were used for the four remaining major groups namely "other transport equipment"; tobacco products and coke and refined petroleum products and bodies for motor vehicles. The volume indices for the major groups tobacco products and coke and refined petroleum products are calculated on the basis of physical quantities. The major group tobacco products is included under 'Other' manufacturing industries. This method is also applied by other international statistical agencies for petroleum products due to the results being more satisfactory (mainly due to these commodities being relatively homogeneous and the nature of the industry). In the case of "other transport equipment" units such as ships and aircraft are completed over a relatively long period and establishments can often not report charges for work done continuously. The sales and charges for work done are only shown after completion of the product, which is not a true reflection of the real production for the month under consideration. Therefore the index for "other transport equipment" is calculated monthly according to man-hours worked.

#### **Sample design**

10 The 1988 Census of Manufacturing provided the sampling frame for the selection of the monthly sample regarding manufacturing production and sales which was implemented as from January 1995. A stratified systematic sample design based on gross output was used. All statistical units were stratified by type of economic activity according to the Standard Industrial Classification of all Economic Activities (SIC) and measure of size, where measure of size was the total manufacturing gross output of the establishment. All large establishments (size category one cases) are completely enumerated. A sample was drawn from medium and small size establishments by systematically selecting establishments with equal probability.

#### **Benchmarking**

11 The index of physical volume of manufacturing production as well as the total value of sales of manufactured products should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities as measured by the monthly Manufacturing Production and Sales sample survey is based on information received from a sample of manufacturing establishments which is weighted according to the original sample design in order to represent the population of manufacturing establishments. It is necessary to adjust the level of activities as measured by the monthly sample survey to the level of activities as measured periodically by the Census of Manufacturing. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking. The results, due to benchmarking, were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.

12 The results of the 1991, 1993 and 1996 Censuses of Manufacturing and information obtained from the former TBVC states were used to adjust the level of the manufacturing production indices and the value of sales of manufactured products. The total value of output of the manufacturing major groups (which represents the total value of work done by the establishments in these major groups) as obtained from the manufacturing censuses, was deflated with appropriate sub-indices of the Production Price Index in order to calculate the real output. The latter served as benchmarks to verify or adjust the level of the monthly physical volume of manufacturing production indices. The level adjustments were done on the volume indices for January of the relevant census year (e.g. the 1996 census year covers the period 1 July 1995 to 30 June 1996 and therefore the benchmarking was done using the index of January 1996 as reference point). The motor vehicle major group is the only exception where the financial year for most of the establishments covered the period 1 January 1995 to 31 December 1995. The benchmarking was done using the physical volume of manufacturing production index for July 1995 as reference point.

#### **Production index for the total manufacturing industry**

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

A weight is calculated for every major group according to the value added of the relevant major group compared with the value added to the total manufacturing industry based on the 1991, 1993 and 1996 Censuses of Manufacturing. Weights

between census years are fixed and are based on the results of the most recent Census of Manufacturing. The production indices of all the major groups are multiplied by the applicable weights and aggregated to reflect the total physical volume of manufacturing production index.

<b>Seasonal adjustment</b>	<b>14</b>	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.								
<b>Trend cycle</b>	<b>15</b>	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.								
<b>Reliability of estimates</b>	<b>16</b>	Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.								
<b>Historical data</b>	<b>17</b>	More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups and the value of sales for the period January 1990 to September 1999 were published in statistical releases P3041.3 (entitled <b>Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999</b> ) on 21 December 1999 and P3041.4 (entitled <b>Manufacturing statistics: Value of sales, January 1990 to September 1999</b> ) on 8 December 1999.								
<b>Related publications</b>	<b>18</b>	Users may also wish to refer to the following publications which are available from Stats SA - <ul style="list-style-type: none"> <li>• P3041.3 - Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999.</li> <li>• P3041.4 - Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.</li> <li>• Bulletin of Statistics.</li> <li>• SA Statistics.</li> <li>• P0441 - Gross Domestic Product.</li> </ul>								
<b>Unpublished statistics</b>	<b>19</b>	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.								
<b>Rounding-off of figures</b>	<b>20</b>	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.								
<b>Pre-release policy</b>	<b>21</b>	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.								
	<b>22</b>	Stats SA's pre-release policy may be inspected at its Website, <a href="http://www.statssa.gov.za">www.statssa.gov.za</a> .								
<b>Symbols and abbreviations</b>		<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">GDP</td> <td>Gross Domestic Product</td> </tr> <tr> <td>ISIC</td> <td>International Standard Classification of all Economic Activities</td> </tr> <tr> <td>PPI</td> <td>Production Price Index</td> </tr> <tr> <td>SIC</td> <td>Standard Industrial Classification of all Economic Activities</td> </tr> </table>	GDP	Gross Domestic Product	ISIC	International Standard Classification of all Economic Activities	PPI	Production Price Index	SIC	Standard Industrial Classification of all Economic Activities
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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 2001 is 80,1%. The response rates by manufacturing major division are tabulated in table B.

**Table B - Response rates for September 2001**

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	318	77,7
Beverages	67	89,6
Textile	112	91,1
Total wearing apparel	136	88,2
Tanning and dressing of leather	26	84,6
Footwear	21	85,7
Wood and products of wood	121	76,0
Paper and paper products	93	80,6
Total publishing and printing	89	70,8
Coke and refined petroleum products	30	80,0
Basic chemicals	78	87,2
Other chemical products	111	81,1
Rubber products	23	82,6
Plastic products	86	72,1
Glass and glass products	14	85,7
Other non-metallic mineral products	143	77,6
Basic iron and steel products	42	85,7
Basic precious and non-ferrous metal products	24	75,0
Fabricated metal products	237	76,8
Total machinery and equipment	184	82,1
Electrical machinery, apparatus	79	82,3
Radio, television and communication apparatus	23	82,6
Professional equipment	27	74,1
Motor vehicles; trailers; parts and accessories	126	77,8
Other transport equipment	38	81,6
Furniture	69	76,8
Other manufacturing industries	83	77,1
<b>Total</b>	<b>2400</b>	<b>80,1</b>

## 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.

<b>Index of physical volume of manufacturing production</b>	The index of physical volume of manufacturing production or a production index is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 1995. The production in the base period is set at 100.
<b>Industry</b>	An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the System of National Accounts (SNA) in the same way as in the Standard Industrial Classification of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).
<b>Intercensal period</b>	Intercensal period is the period between January of the one census year and January of the next census year.
<b>Intermediate consumption</b>	Intermediate consumption includes - <ul style="list-style-type: none"><li>• purchases and transfers-in of materials;</li><li>• payments to other establishments for work done;</li><li>• other direct factory costs;</li><li>• rent and leasing paid;</li><li>• head office charges;</li><li>• royalties, copyright, trade names and patent rights paid;</li><li>• advertising;</li><li>• insurance premiums;</li><li>• services; and</li><li>• secretarial and administrative fees.</li></ul>
<b>Output</b>	Output is the aggregate value of goods manufactured and work done.  Output includes - <ul style="list-style-type: none"><li>• sales and transfers-out of own manufactures, factory waste and stocks of factored goods;</li><li>• repairs;</li><li>• installation, erection and assembly;</li><li>• sundry trading revenue;</li><li>• sales of factored goods minus purchases of factored goods;</li><li>• rent and leasing received;</li><li>• royalties received;</li><li>• difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods;</li><li>• head office charges; and</li><li>• other revenue.</li></ul> Output excludes – <ul style="list-style-type: none"><li>• excise and customs duty paid.</li></ul>
<b>Value added</b>	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.
<b>Sales</b>	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.
<b>Weight</b>	The weight of a major group is the ratio of the value added of a major group (i.e. output of a major group minus intermediate consumption) to the total value added of the manufacturing industry. The weight of a major group reflects the importance of the major group in the total manufacturing industry. The weights change over time due to quality changes, changes in relative prices, and changes in preference, etc. New weights need to be calculated from time to time.



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

Manufacturing Divisions	Percentage contribution to the total manufacturing production in the base year 1995 (Weights)	Average seasonally adjusted production index for the three months July 2001 to September 2001	Quarterly percentage change (July 2001 to September 2001 compared with the preceding three months)	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and food products	10,7	104,3	-0,9	-0,1
Beverages	4,6	97,0	-1,1	-0,1
Total textiles	2,9	92,8	-4,4	-0,1
Total wearing apparel	3,6	77,3	-4,1	-0,2
Tanning and dressing of leather	0,4	102,5	-17,3	-0,1
Footwear	0,9	51,9	-6,1	-0,1
Wood and products of wood	1,9	116,4	-2,5	-0,1
Paper and paper products	5,3	99,4	-5,2	-0,3
Total publishing and printing	4,1	84,2	+0,4	+0,0
Coke and refined petroleum products	4,2	100,4	+2,7	+0,1
Basic chemicals	4,5	136,8	-4,6	-0,2
Other chemical products	6,2	104,7	+0,9	+0,1
Rubber products	1,4	95,1	+2,0	+0,0
Plastic products	3,1	96,2	-1,7	-0,1
Glass and glass products	1,0	98,3	-1,2	-0,0
Other non-metallic mineral products	3,5	92,4	+1,7	+0,1
Basic iron and steel products	7,6	114,7	+7,6	+0,6
Basic precious and non-ferrous metal products	3,2	163,3	-7,8	-0,2
Fabricated metal products	7,0	113,9	+3,9	+0,3
Total machinery and equipment	5,8	107,3	+0,2	+0,0
Electrical machinery, apparatus	3,4	101,5	-3,8	-0,1
Radio, television and communication apparatus	1,0	99,8	-4,7	-0,1
Professional equipment	0,5	87,0	+3,3	+0,0
Motor vehicles; trailers; parts and accessories	8,0	132,0	-4,3	-0,4
Other transport equipment	1,0	114,6	+2,6	+0,0
Furniture	1,6	93,3	-3,1	-0,1
Other manufacturing divisions	2,6	109,7	-0,2	-0,0
Total	100,0	107,4	-1,1	-1,0

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	1995	1996	1997	1998	1999	2000	2001
Actual indices							
J	80,4	83,6	89,8	89,6	86,7	88,8	94,7
F	97,4	96,7	103,1	101,1	98,0	103,2	105,8
M	104,0	102,6	102,5	102,7	101,4	109,0	111,8
A	91,3	96,4	105,5	96,3	94,8	93,2	100,6*
M	101,0	104,1	106,2	101,1	101,1	106,5	108,5*
J	102,1	102,9	104,9	104,5	100,5	110,4	113,7
J	101,6	104,7	108,2	104,4	104,3	107,2	109,1*
A	105,6	107,8	105,8	99,9	103,5	108,5	109,0
S	106,8	105,2	108,2	106,8	107,0	112,4	113,0 1/
O	112,6	115,8	119,1	111,7	112,9	117,0	
N	110,9	114,4	111,7	109,8	115,5	120,7	
D	86,2	83,7	86,9	85,3	90,5	94,7	
Seasonally adjusted indices							
J	96,1	99,0	105,5	104,7	100,5	102,2	108,9
F	99,1	98,6	105,1	102,8	99,7	104,9	107,5
M	99,9	99,5	100,2	100,8	99,5	106,8	109,6
A	97,5	102,1	111,2	101,7	100,3	99,2	107,4
M	101,1	103,9	105,4	100,2	100,4	105,6	107,8
J	100,9	101,6	103,2	102,6	98,4	107,5	110,5
J	99,8	102,5	105,7	102,0	102,1	105,0	107,0
A	102,5	104,6	103,1	97,8	101,6	106,6	107,3
S	101,6	100,2	103,1	102,0	102,2	107,3	108,0
O	101,4	103,2	106,2	100,1	101,5	105,5	
N	100,0	103,1	100,9	99,2	104,5	109,3	
D	99,3	98,8	102,3	100,3	107,0	111,8	
Year	100,0	101,5	104,3	101,1	101,4	106,0	

\* 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			
			2000	September	August	September	September	August	September
				2000	2001		2000	2001	
					September	August		September	August
Food and food products	10,7	99,2	107,0	112,7	111,8	100,7	105,3	105,3	
Meat, fish, fruit etc.	2,8	111,7	110,7	117,3	120,3	114,1	116,9	123,7	
Dairy products	1,4	89,4	93,4	97,7	89,3	91,2	94,9	87,1	
Grain mill products	2,1	91,3	91,4	104,5	105,0	92,9	103,8	106,2	
Other food products	4,4	98,0	116,2	118,2	116,5	98,7	101,8	98,6	
Beverages	4,6	92,6	98,5	89,7	104,2	96,3	98,8	101,4	
Total textiles	2,9	93,5	102,1	100,5	98,1	95,0	95,5	91,1	
Textiles	1,7	84,6	90,7	95,7	87,3	84,2	89,4	80,8	
Other textile products	1,2	106,2	118,2	107,2	113,3	110,4	104,3	105,7	
Total wearing apparel	3,6	82,8	89,0	85,1	84,9	79,6	80,8	76,6	
Knitted, crocheted articles	0,6	73,9	70,3	79,9	72,6	70,1	78,2	72,4	
Wearing apparel	3,0	84,5	92,8	86,1	87,4	81,6	81,4	77,5	
Tanning and dressing of leather	0,4	125,2	126,9	92,7	91,8	134,8	91,7	97,5	
Footwear	0,9	65,6	71,6	58,5	55,1	63,7	53,1	49,4	
Wood and products of wood	1,9	119,3	129,7	119,8	122,5	123,5	115,3	117,0	
Sawmilling and planing of wood	0,8	104,8	111,8	95,5	106,1	102,8	88,9	98,0	
Products of wood	1,2	128,8	141,5	135,8	133,3	137,1	132,7	129,5	
Paper and paper products	5,3	105,3	115,4	99,0	103,6	109,7	99,1	98,7	
Total publishing and printing	4,1	87,8	90,4	84,4	90,3	86,9	83,4	86,8	
Publishing	1,5	97,8	97,0	98,8	103,7	95,2	99,5	101,5	
Printing, recorded media	2,6	82,3	86,7	76,3	82,8	82,2	74,3	78,6	
Coke and refined petroleum products	4,2	104,5	103,2	98,2	95,4	108,2	98,2	99,7	
Basic chemicals	4,5	134,9	123,0	134,0	121,4	129,8	136,4	128,6	
Other chemical products	6,2	101,8	107,4	105,8	113,6	100,0	106,5	105,9	
Rubber products	1,4	98,7	107,8	111,6	78,0	102,3	103,0	74,5	
Plastic products	3,1	89,7	96,0	100,7	98,9	91,9	97,8	94,8	
Glass and glass products	1,0	88,5	90,2	101,9	107,3	86,2	93,6	102,5	
Other non-metallic mineral products	3,5	90,0	96,1	99,5	95,5	91,1	94,0	90,6	
Basic iron and steel products	7,6	116,3	115,0	108,3	124,2	112,9	112,0	122,0	
Basic precious and non-ferrous metal products	3,2	163,4	180,2	172,5	180,0	170,5	168,4	170,7	
Fabricated metal products	7,0	103,4	105,2	119,8	123,3	99,1	114,8	116,5	
Structural metal products	2,4	90,5	86,3	108,9	118,7	81,9	108,3	112,3	
Other fabricated metal products	4,6	110,0	114,9	125,4	125,6	108,0	118,2	118,6	
Total machinery and equipment	5,8	99,6	117,8	118,7	109,7	109,1	115,3	102,8	
General purpose machinery	2,5	110,6	138,3	129,1	121,8	123,6	120,9	108,9	
Special purpose machinery	2,9	87,8	96,9	108,5	98,2	94,1	109,5	97,1	
Household appliances	0,4	116,9	141,2	127,9	117,9	126,3	122,7	105,2	
Electrical machinery, apparatus	3,4	102,1	111,7	105,0	110,5	104,3	104,5	103,2	
Radio, television and communication apparatus	1,0	123,7	148,4	109,7	102,5	133,2	105,1	92,1	
Professional equipment	0,5	80,9	81,9	90,1	90,8	80,7	87,9	89,1	
Motor vehicles; trailers; parts and accessories	8,0	125,4	139,6	113,8	144,6	133,4	116,3	137,7	
Motor vehicles	4,5	114,9	133,6	88,7	125,2	126,4	89,1	117,8	
Bodies for motor vehicles; trailers and semi-trailers	0,5	63,3	54,3	54,8	60,2	53,2	51,2	59,1	
Parts and accessories	3,0	152,4	164,2	162,3	189,3	158,7	169,0	182,1	
Other transport equipment	1,0	115,0	112,9	112,7	113,5	116,5	112,2	116,9	
Furniture	1,6	98,9	106,5	102,5	101,0	89,3	97,3	85,1	
Other manufacturing divisions	2,6	111,5	121,3	117,2	119,7	110,0	108,7	107,9	
Total	100,0	106,0	112,4	109,0	113,0	107,3	107,3	108,0	

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

Month	1995	1996	1997	1998	1999	2000	2001
Actual values							
J	19 206 220	21 803 249	25 254 480	25 913 926	26 410 458	28 589 385	33 973 031*
F	24 414 317	26 328 500	29 866 793	29 901 544	30 607 558	35 164 838	39 132 859*
M	26 712 878	28 188 286	29 866 272	32 190 538	32 788 344	38 016 107	42 613 876*
A	22 897 368	26 231 967	30 438 604	29 758 879	30 508 382	32 678 871	37 463 078*
M	25 806 431	28 293 052	30 626 091	30 352 835	32 737 449	37 000 959	41 097 223*
J	26 204 689	28 261 416	30 575 542	31 723 893	33 126 289	38 664 168	42 658 662*
J	25 613 126	28 378 392	31 169 707	31 732 667	33 429 319	36 214 346	41 027 320*
A	27 064 919	29 568 761	31 400 042	30 810 619	33 740 922	38 928 064	41 329 936
S	27 737 968	29 549 724	31 344 644	32 896 327	35 884 855	39 880 334	42 531 451 1/
O	29 294 559	33 070 022	35 902 602	34 970 472	37 448 797	41 754 578	
N	29 960 074	33 084 713	33 709 581	34 300 610	38 909 651	43 856 584	
D	23 877 458	26 338 721	28 128 922	29 016 347	33 048 575	37 217 693	
Year	308 790 007	339 096 803	368 283 280	373 568 657	398 640 599	447 965 927*	
Seasonally adjusted values							
J	23 515 638	26 401 227	30 508 274	31 067 988	31 514 129	33 968 611	40 088 576
F	24 779 216	26 807 620	30 511 198	30 639 752	31 482 767	36 171 288	40 384 544
M	25 290 656	26 882 400	28 704 006	30 952 168	31 531 859	36 363 717	40 734 012
A	24 287 338	27 738 957	32 135 098	31 542 508	32 461 015	34 936 770	40 222 588
M	26 141 025	28 443 887	30 718 115	30 411 225	32 820 748	37 025 089	41 114 831
J	25 969 259	28 025 890	30 201 927	31 239 388	32 544 800	37 740 000	41 558 966
J	25 542 884	28 384 770	31 187 691	31 891 219	33 674 114	36 591 716	41 512 866
A	26 220 230	28 815 331	30 752 043	30 339 570	33 320 285	38 445 322	40 795 838
S	26 525 085	28 333 780	30 106 568	31 656 436	34 555 768	38 285 533	40 920 562
O	26 214 496	29 560 991	32 132 182	31 263 968	33 645 551	37 747 195	
N	26 869 946	29 753 714	30 340 565	30 852 285	35 041 753	39 685 902	
D	26 778 240	29 266 790	30 838 586	31 404 450	35 921 310	40 404 278	

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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	September1/	September	August	September
		2000	2001		2000	2001	
Food and food products	59 680 480	4 877 996	5 665 967	5 623 871	4 984 112	5 672 773	5 743 775
Meat, fish, fruit etc.	17 696 951	1 464 667	1 724 307	1 781 731	1 490 762	1 733 104	1 811 867
Dairy products	7 246 522	636 195	686 976	650 190	622 643	663 704	634 544
Grain mill products	15 373 318	1 215 590	1 511 515	1 490 926	1 275 236	1 488 353	1 560 772
Other food products	19 363 689	1 561 544	1 743 169	1 701 024	1 595 471	1 787 612	1 736 592
Beverages	20 378 659	1 782 560	1 844 693	2 072 292	1 743 653	1 980 156	2 024 582
Total textiles	10 164 459	912 061	978 381	950 100	864 283	936 845	901 116
Textiles	6 440 583	565 371	645 209	602 720	532 834	609 399	568 174
Other textile products	3 723 876	346 690	333 172	347 380	331 449	327 446	332 942
Total wearing apparel	10 523 645	978 960	976 880	973 888	860 635	938 646	858 245
Knitted, crocheted articles	1 693 563	139 637	156 824	156 226	135 680	154 908	151 368
Wearing apparel	8 830 082	839 323	820 056	817 662	724 955	783 738	706 877
Tanning and dressing of leather	2 666 786	212 177	196 253	199 969	211 727	203 498	200 203
Footwear	2 238 178	212 375	176 514	174 528	180 145	161 388	149 236
Wood and products of wood	9 073 197	860 017	813 196	868 455	802 633	802 200	811 733
Sawmilling and planing of wood	2 589 363	236 969	220 146	233 352	215 940	211 232	213 902
Products of wood	6 483 834	623 048	593 050	635 103	586 693	590 968	597 831
Paper and paper products	23 303 136	2 231 230	2 041 623	2 261 962	2 037 415	2 086 042	2 080 843
Total publishing and printing	11 678 548	997 080	1 022 420	1 085 252	963 886	1 020 554	1 049 887
Publishing	4 668 251	394 871	431 507	453 445	381 885	426 699	437 420
Printing, recorded media	7 010 297	602 209	590 913	631 807	582 001	593 855	612 467
Coke and refined petroleum products	31 823 682	2 725 140	3 298 201	2 939 375	2 700 865	3 006 530	2 916 730
Basic chemicals	21 571 212	1 888 727	2 016 082	1 977 808	1 841 668	2 049 494	1 933 028
Other chemical products	26 327 958	2 347 512	2 472 796	2 529 057	2 217 192	2 473 701	2 387 713
Rubber products	4 645 737	423 814	540 576	354 831	399 905	506 459	334 041
Plastic products	10 669 187	962 870	1 035 000	1 050 020	911 400	1 013 659	993 445
Glass and glass products	2 280 493	202 714	229 843	256 773	183 633	227 229	233 179
Other non-metallic mineral products	10 249 683	928 996	1 035 645	979 322	858 638	954 348	908 594
Basic iron and steel products	33 529 317	2 821 915	3 041 636	3 117 998	2 789 166	3 036 909	3 071 781
Basic precious and non-ferrous metal products	15 542 665	1 515 725	1 466 891	1 565 007	1 403 790	1 410 388	1 449 549
Fabricated metal products	24 753 734	2 154 989	2 572 116	2 463 504	2 037 386	2 448 564	2 347 337
Structural metal products	7 818 495	623 314	828 706	788 974	612 837	806 810	780 221
Other fabricated metal products	16 935 239	1 531 675	1 743 410	1 674 530	1 424 549	1 641 754	1 567 116
Total machinery and equipment	19 664 968	1 942 587	2 029 648	1 742 294	1 723 224	1 995 593	1 554 572
General purpose machinery	8 821 849	961 463	958 726	788 057	789 488	887 487	642 452
Special purpose machinery	8 658 911	758 487	854 958	750 557	731 730	900 217	728 506
Household appliances	2 184 208	222 637	215 964	203 680	202 006	207 889	183 614
Electrical machinery, apparatus	13 182 516	1 197 770	1 154 897	1 240 285	1 108 355	1 135 779	1 143 760
Radio, television and communication apparatus	4 639 808	469 828	387 771	345 627	440 801	333 220	323 873
Professional equipment	1 388 382	124 621	139 713	133 613	121 100	136 915	129 795
Motor vehicles; trailers; parts and accessories	53 962 953	5 074 456	4 016 214	5 565 243	4 915 982	4 144 221	5 363 860
Motor vehicles	37 436 200	3 547 975	2 612 899	3 893 635	3 451 865	2 670 922	3 767 967
Bodies for motor vehicles; trailers and semi-trailers	1 670 903	137 198	118 080	137 573	130 772	113 571	130 949
Parts and accessories	14 855 850	1 389 283	1 285 235	1 534 035	1 333 345	1 359 728	1 464 944
Other transport equipment	3 247 376	222 231	267 020	272 717	227 046	273 298	278 914
Furniture	6 253 537	567 275	554 166	565 981	512 315	526 992	511 673
Other manufacturing divisions	14 525 631	1 244 708	1 355 794	1 221 679	1 244 578	1 320 437	1 219 098
Total	447 965 927	39 880 334	41 329 936	42 531 451	38 285 533	40 795 838	40 920 562

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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
	2000	2001		2000	2001	
Spinning, weaving and finishing of textiles	178 474	231 961	217 164	179 563	241 696	219 012
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	29 774	32 868	35 380	28 659	32 462	34 034
Other textile articles	87 611	70 433	73 396	80 818	75 564	67 484
Knitted and crocheted fabrics and articles	133 578	100 386	99 711	125 827	106 147	94 035
Wearing apparel	692 323	640 340	729 703	629 153	627 388	661 352
Sawmilling and preserving of timber	26 310	24 068	23 367	25 855	23 597	22 944
Veneer sheets, plywood, laminboard, etc.	23 446	25 805	24 745	24 290	25 991	25 810
Builders' carpentry and joinery	45 201	39 402	37 855	44 308	37 110	37 116
Pulp, paper and paperboard	467 030	406 622	289 951	485 438	365 545	305 666
Corrugated paper and paper-board and containers	402 759	372 966	327 855	392 584	388 156	318 610
Paints, varnishes and coatings	26 140	22 880	22 805	21 189	21 559	18 507
Basic iron and steel products	3 070 975	3 523 560	3 621 772	3 072 460	3 577 526	3 627 216
Steel pipe and tube mills	176 013	174 452	163 898	176 211	173 590	165 282
Basic precious and non-ferrous metal products	1 155 101	1 863 911	1 798 841	1 176 653	1 843 267	1 843 515
Metal structures, parts	1 265 823	1 548 956	1 597 874	1 268 035	1 523 902	1 600 740
Cutlery, hand tools and general hardware	26 997	17 086	19 924	25 861	18 495	18 970
Metal containers, e.g. cans and tins	80 966	81 799	78 404	83 080	86 466	80 454
Cables, wire products, springs	62 077	59 916	62 051	60 903	61 230	60 540
Metal fasteners	56 160	67 744	69 445	55 053	69 556	67 434
All other metal products	502 401	654 984	630 744	492 709	623 630	624 477
Domestic appliances	35 291	30 156	33 412	33 558	29 456	31 443
Electric motors, generators and transformers	504 405	409 503	395 251	489 321	395 497	381 649
Insulated wire and cables	335 487	297 471	317 162	329 977	302 038	311 989
Accumulators, primary cells and primary batteries	12 288	12 284	11 405	12 985	12 980	12 126
Television, radio and communication apparatus	1 065 658	1 982 107	1 997 027	1 048 345	1 929 217	1 984 104
Motor vehicles	2 272 050	2 354 495	2 503 208	2 258 442	2 431 222	2 465 031
Parts and accessories for motor vehicles	312 881	374 786	285 578	325 003	324 205	299 524
Furniture	446 519	304 152	417 846	329 821	297 731	308 672

\* Revised