

## Manufacturing: production and sales P3041.2

October 1999  
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### Key figures for the month ended October 1999

<b>Actual estimates</b>	<b>October 1999</b>	<b>% change between October 1998 and October 1999</b>	<b>% change between August 1998 to October 1998 and August 1999 to October 1999</b>	<b>% change between January 1998 to October 1998 and January 1999 to October 1999</b>
Physical volume of manufacturing production index	113,0	+1,0	+1,8	-0,7
Total value of sales of manufactured products	R37 695,7 million	+7,8	+8,7	+5,3

<b>Seasonally adjusted estimates</b>	<b>October 1999</b>	<b>% change between September 1999 and October 1999</b>	<b>% change between May 1999 to July 1999 and August 1999 to October 1999</b>
Physical volume of manufacturing production index	100,5	-1,3	+0,8
Total value of sales of	R33 717,3 million	-1,8	+3,0

manufactured products			
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### **Manufacturing production increases**

*Manufacturing production for the three months up to October 1999 reflected an increase of 0,8% after seasonal adjustment compared with the previous three months. Higher manufacturing production was reported in 17 of the 27 manufacturing major divisions.*

The major contributors to the increase of 0,8% after seasonal adjustment in the total manufacturing production were the basic iron and steel products division (+0,7 of a percentage point), followed by the motor vehicle (+0,4 of a percentage point) and the electrical machinery (+0,3 of a percentage point) divisions. However, these increases were counteracted by a decrease in production reported by the machinery and equipment (-0,8 of a percentage point) division.

The total value of sales of manufactured products reflected an increase of R2 991 million (+3,0%) after seasonal adjustment for the three months up to October 1999 compared with the previous three months. The largest increases were reported by the motor vehicle (+R1 206 million or 11,6%), the coke and refined petroleum products (+R374 million or 7,1%) the basic iron and steel (+R289 million or 4,6%), and the basic chemical (+R245 million or 5,2%) divisions during this period.

### **Revised level of the indices of physical volume of manufacturing production (production indices) and the total value of sales of manufactured products**

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.

Stats SA has revised the level of the production indices and the total value of sales of manufacturing establishments as reflected by the monthly Manufacturing Production and Sales sample survey, using the 1996 Manufacturing Census results. The previous estimates of the value of sales and production indices were based on the information received from a sample of manufacturing establishments on a monthly basis, while the 1996 Census of Manufacturing covers all manufacturing establishments.

By using the process of benchmarking, the estimates of the production indices and the total value of sales of manufacturing establishments have been revised for the period January 1993 to September 1999. The benchmarking was done using the sales of January 1996 as reference point.

### **Higher level of activities of manufacturing establishments as reflected by production indices**

The level of activities of manufacturing establishments, as reflected by the physical volume of manufacturing production indices in the monthly sample survey for January 1996, was 0,4% lower than the level of activities reflected by the 1996 Census of Manufacturing results. Therefore, the level of activities of manufacturing establishments, as reflected by the physical volume of manufacturing production indices resulting from the monthly sample survey, has been adjusted accordingly from January 1996 to September 1999 (cf. table B).

**Table B - Production indices of manufacturing establishments according to the previous and revised estimates and deviation due to benchmarking**

<b>Total manufacturing</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>
Previous production indices	100,0	101,1	103,9	100,7
Revised production indices due to benchmarking	100,0	101,5	104,3	101,1
Deviation due to benchmarking (percentage)	0,0	0,4	0,4	0,4

#### **Higher level of sales value of manufacturing establishments**

The level of the total value of sales of manufacturing establishments, as reflected by the monthly sample survey for January 1996, was 1,8% lower than the level reflected by the 1996 Census of Manufacturing results. Therefore, the level of the total value of sales of manufacturing establishments, as reflected by the monthly sample survey has been adjusted accordingly from January 1996 to September 1999 (cf. table C).

**Table C - Value of sales by manufacturing establishments according to the previous and revised estimates and deviation due to benchmarking**

<b>Total manufacturing</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>
Previous value of sales (R million)	303 906	332 566	360 917	366 105
Revised value of sales due to benchmarking (R million)	308 352	338 533	367 591	372 734
Deviation (R million)	4 446	5 967	6 674	6 629
Deviation due to benchmarking (percentage)	1,5	1,8	1,8	1,8

## **Notes**

**General** This statistical release reflects the revised indices of the physical volume of manufacturing production and the total value of sales of manufactured products and unfilled orders, after benchmarking, according to manufacturing divisions and major groups. Furthermore, in accordance with international practice, the indices have to be rebased every five years to a new base year. The indices in this statistical release have been recalculated on the basis of 1995=100. Both actual and seasonally adjusted figures are presented.

In order to improve timeliness, some information for the current month may have been estimated due to late response. These estimates will be revised in the next statistical release(s) as soon as better information is available.

**Purpose of the survey** The monthly Manufacturing Production and Sales Survey is a country-wide survey covering a sample of private establishments (branches) and public corporations operating in the South African economy. The results of this survey are used to calculate physical volume of manufacturing

production indices to estimate the gross domestic product (GDP) to monitor and develop Government policy.

**Changes in this statistical** The index of physical volume of manufacturing production as well as the total value of **release** 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 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.

In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined after benchmarking has been done:

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.

**Sample** The 1988 Census of Manufacturing provided the 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 size category one cases (large establishments) are completely enumerated. For size category two (medium size establishments) and size category three (small establishments), samples were drawn by systematically selecting establishments with equal probability.

**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 will be 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.

[Back to the contents](#)

## **Additional information**

## Explanatory Notes

**Introduction 1** Statistics South Africa (Stats SA) conducts a monthly sample survey of the manufacturing industry covering private manufacturing establishments, public corporations and government establishments. This statistical release contains detailed information regarding indices of the physical volume of manufacturing production, the total value of sales of manufactured products and unfilled orders, according to manufacturing divisions and major groups on a monthly basis.

**2** Revised production indices and value of sales of the manufacturing industry are reflected from January 1995 to October 1999 in this statistical release, after benchmarking, in order to provide users with comparable time series. The information in this statistical release replaces previously published monthly information.

**Scope of the survey 3** This survey covers establishments conducting activities regarding -

- the manufacture, processing, making or packing of products;
- the slaughtering of animals, including poultry; and
- installation, assembly, completion, repair and related work.

**Classification 4** The 1993 edition of the Standard Industrial Classification of all Economic Activities (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 International Standard Industrial Classification of all Economic Activities (ISIC) with suitable adaptations for local conditions. Statistics in this publication are presented at SIC division, major group and subgroup level. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment (branch).

**Statistical unit 5** 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 4).

**Survey methodology and 6** The survey is collected by mail each month from a sample of approximately 2 700

**design** manufacturing establishments.

**7** The calculation of the monthly production indices is based on the value of products and articles manufactured, after the effect of price changes has been eliminated through deflation by using appropriate sub-indices of the Production Price Index (PPI). The value of the manufactured products is obtained from a monthly sample survey of manufacturing establishments in the private and public sectors.

**8** The above-mentioned measurement method 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. The volume indices for the major groups tobacco products; 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 relative 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.

**Related publications 9** 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.

**Unpublished statistics 10** In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as computer printouts or diskette. Generally a charge is made for providing unpublished statistics.

**Rounding-off of figures 11** 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 12** 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 Deputy President, the Department of Trade and Industry, the Department of Finance and the South African Reserve Bank will receive a copy of the release on a strictly confidential basis two hours in advance of the public issue.

Stats SA pre-release policy may be inspected at its Website, [www.statssa.gov.za](http://www.statssa.gov.za).

[Back to the contents](#)

## 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** The index of physical volume of manufacturing production or a production index is a

**of manufacturing production** 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 (SIC) of all Economic Activities, Fifth Edition of January 1993.

**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;  
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;  
closing value of work in progress, stocks of own manufactures and stocks of factored goods;  
head office charges;  
other revenue;

Output excludes -

excise and customs duty paid;

opening values of work in progress, finished goods and factored goods.

**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**

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Summary - Total manufacturing

Period	Production indices	Sales	Percentage change of:	
	1995 = 100	R mill.	Production indices	Sales
<b>Actual</b>				
Aug. 1999 - Oct. 1999	108,0	107 289,9	+1,8	+8,7
Aug. 1998 - Oct. 1998	106,1	98 677,4		
<b>Seasonally adjusted</b>				
Aug. 1999 - Oct. 1999	101,3	101 504,8	+0,8	+3,0
May 1999 - Jul. 1999	100,5	98 514,1		

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 Aug.1999 - Oct. 1999	Quarterly percentage change (Aug. 1999 - Oct. 1999 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	100,8	0,5	0,05
Beverages	4,6	98,9	-1,3	-0,05
Total textiles	2,9	93,8	3,1	0,08
Total Wearing apparel	3,6	86,7	-2,7	-0,09
Tanning and dressing of leather	0,4	125,1	0,9	0,00
Footwear	0,9	70,9	1,9	0,01
Wood and products of wood	1,9	112,0	-1,1	-0,02
Paper and paper products	5,3	93,9	-4,4	-0,23
Total publishing and printing	4,1	92,2	-1,6	-0,06
Coke and refined petroleum products	4,2	107,3	2,5	0,10
Basic chemicals	4,5	123,1	1,2	0,05
Other chemical products	6,2	101,4	1,3	0,08
Rubber products	1,4	98,6	10,4	0,14
Plastic products	3,1	82,5	-1,7	-0,05
Glass and glass products	1,0	87,3	2,9	0,02
Other non-metallic mineral products	3,5	83,8	0,7	0,02
Basic iron and steel products	7,6	99,9	8,7	0,65
Basic precious and non-ferrous metal products	3,2	152,7	-0,9	-0,02
Fabricated metal products	7,0	99,9	0,3	0,02
Total machinery and equipment	5,9	95,7	-13,5	-0,78
Electrical machinery, apparatus	3,4	97,6	9,7	0,33
Radio, television and communication apparatus	1,0	138,6	3,7	0,04
Professional equipment	0,5	80,4	8,8	0,05
Motor vehicles; trailers; parts and accessories	8,0	104,5	4,9	0,39
Other transport equipment	1,0	112,4	0,6	0,00
Furniture	1,6	106,7	1,6	0,02
Other manufacturing industries	2,6	111,2	8,1	0,20
<b>TOTAL</b>	<b>100,0</b>	<b>101,3</b>	<b>0,8</b>	<b>0,80</b>

1/ The contribution is calculated by multiplying the quarterly percentage change of each manufacturing division with its corresponding weight in the base year.

**Table 1 - Indices of the physical volume of manufacturing production - Total**  
**Historical table**  
 Base 1995 = 100

Month	1995	1996	1997	1998	1999
Actual indices					
J	80,5	83,8	90,0	89,7	86,3
F	97,6	96,9	102,7	100,5	97,9
M	104,1	102,6	102,5	103,4	101,1
A	90,9	96,4	105,7	96,6	94,8
M	102,2	104,1	106,0	101,2	101,0
J	102,6	102,6	104,9	104,1	101,4
J	101,6	104,7	108,4	105,0	104,7
A	105,5	107,8	105,8	99,7	104,1
S	106,8	105,2	108,3	106,8	106,9
O	112,4	115,8	118,8	111,8	113,0 1/
N	110,7	114,4	111,6	109,6	
D	85,1	83,7	86,7	84,9	
Seasonally adjusted indices					
J	96,5	99,6	105,8	104,7	100,3
F	100,1	99,3	105,1	102,8	100,2
M	100,3	99,5	100,1	101,6	99,5
A	97,6	103,0	112,1	102,1	100,0
M	102,4	103,7	105,2	100,3	100,2
J	101,4	101,3	103,6	102,8	100,2
J	99,6	102,1	105,2	101,6	101,0
A	102,0	104,4	102,6	97,0	101,6
S	101,2	100,0	103,1	101,7	101,8
O	100,5	103,4	105,9	99,4	100,5
N	99,6	103,7	101,8	100,2	
D	98,8	97,9	102,0	100,2	
Year	100,0	101,5	104,3	101,1	

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			
			1998	October	September	October	October	September	October
				1/					
				1999	1998	1999	1998		
Food and food products	10,7	100,2	110,6	105,7	108,4	100,5	101,9	98,3	
Meat, fish, fruit etc.	2,8	109,1	121,4	105,7	123,5	114,2	111,8	116,5	
Dairy products	1,4	92,9	104,6	96,4	98,1	96,6	95,8	90,5	
Grain mill products	2,1	95,9	101,4	92,0	106,1	92,2	98,4	96,4	
Other food products	4,4	98,8	110,0	115,2	103,0	96,3	99,2	89,8	
Beverages	4,6	100,8	112,2	98,6	108,9	101,3	100,3	98,4	
Total textiles	2,9	93,5	110,7	100,9	107,2	94,7	95,6	92,3	
Textiles	1,7	88,5	102,3	95,2	99,9	88,1	90,0	86,5	
Other textile products	1,2	100,6	122,5	109,0	117,6	104,1	103,6	100,6	
Total Wearing apparel	3,6	87,5	113,6	95,3	109,8	89,1	83,4	86,4	
Knitted, crocheted articles	0,6	83,6	100,1	90,9	90,2	89,7	90,7	81,2	
Wearing apparel	3,0	88,2	116,3	96,2	113,7	89,3	81,9	87,5	
Tanning and dressing of leather	0,4	110,5	151,3	115,7	147,4	122,9	123,9	121,5	
Footwear	0,9	74,5	88,5	77,1	89,5	69,1	64,0	69,8	
Wood and products of wood	1,9	107,4	131,8	116,5	116,1	114,9	109,4	101,3	
Sawmilling and planing of wood	0,8	100,9	122,4	115,1	100,3	108,3	102,9	88,7	
Products of wood	1,2	111,7	137,9	117,5	126,5	119,7	113,4	109,9	
Paper and paper products	5,3	94,0	101,1	101,6	97,1	92,5	96,2	88,7	
Total publishing and printing	4,1	93,7	103,0	93,9	104,9	90,5	91,7	92,1	
Publishing	1,5	98,1	113,8	103,4	104,3	107,6	102,0	98,6	
Printing, recorded media	2,6	91,2	96,9	88,6	105,3	81,7	85,8	88,6	
Coke and refined petroleum products	4,2	100,2	100,0	101,6	102,8	101,9	108,6	104,3	
Basic chemicals	4,5	117,1	135,3	126,9	139,4	119,0	127,8	122,7	
Other chemical products	6,2	103,1	121,2	109,5	125,0	103,2	100,3	106,9	
Rubber products	1,4	94,4	103,0	99,3	91,9	99,6	91,8	88,4	
Plastic products	3,1	90,8	103,2	82,3	104,1	86,2	79,3	87,1	
Glass and glass products	1,0	89,6	92,3	92,0	91,2	85,0	89,0	83,5	
Other non-metallic mineral products	3,5	94,2	91,7	90,0	98,9	83,0	84,4	89,2	
Basic iron and steel products	7,6	97,1	106,7	99,4	99,9	102,8	97,9	96,0	
Basic precious and non-ferrous metal products	3,2	144,5	155,3	159,0	162,9	149,3	154,5	156,3	
Fabricated metal products	7,0	108,1	102,6	115,9	114,3	91,9	108,2	101,9	
Structural metal products	2,4	115,8	85,5	103,3	120,0	77,2	98,7	107,3	
Other fabricated metal products	4,6	104,2	111,4	122,4	111,4	99,0	112,8	98,7	
Total machinery and equipment	5,8	103,8	102,4	102,1	107,1	93,9	92,0	97,9	
General purpose machinery	2,5	109,8	101,4	118,0	106,7	105,4	107,2	109,0	
Special purpose machinery	2,9	98,3	98,5	85,1	102,7	83,1	76,1	87,0	
Household appliances	0,4	106,6	137,2	125,9	142,9	106,6	112,9	110,6	
Electrical machinery, apparatus	3,4	98,7	119,7	99,8	109,7	108,6	93,1	99,7	
Radio, television and communication apparatus	1,0	122,7	158,9	153,5	126,0	149,2	135,8	118,3	
Professional equipment	0,5	79,1	88,2	80,9	70,1	84,6	80,8	67,3	
Motor vehicles; trailers; parts and accessories	8,0	90,9	119,1	111,2	108,0	101,1	108,4	91,7	
Motor vehicles	4,5	82,5	106,8	110,1	95,2	91,2	106,2	81,3	
Bodies for motor vehicles; trailers and semi-trailers	0,5	69,5	75,6	66,6	67,9	72,2	64,5	64,1	
Parts and accessories	3,0	107,5	145,4	121,0	134,6	120,3	119,1	112,0	
Other transport equipment	1,0	126,3	115,0	114,5	126,6	108,1	117,4	118,5	
Furniture	1,6	105,6	145,9	127,1	125,0	110,8	105,1	94,9	
Other manufacturing industries	2,6	111,9	127,8	124,4	136,1	103,8	119,1	110,8	
TOTAL	100,0	101,1	113,0	106,9	111,8	100,5	101,8	99,4	

1/ Preliminary

**Table 3 - Value of sales - Manufacturing total (R'000)**  
Historical table

Month	1995	1996	1997	1998	1999
Actual values					
J	19 206 220	21 803 249	25 254 480	25 913 926	26 478 071
F	24 414 317	26 328 500	29 866 793	29 901 544	30 666 092
M	26 712 878	28 188 286	29 866 272	32 190 538	32 735 187
A	22 897 368	26 231 967	30 438 604	29 758 879	30 458 035
M	25 806 431	28 293 052	30 626 091	30 352 835	32 675 430
J	26 204 689	28 261 416	30 575 542	31 723 893	33 132 753
J	25 613 126	28 378 392	31 169 707	31 732 667	33 405 201
A	27 064 919	29 568 761	31 400 042	30 810 619	33 883 290
S	27 737 968	29 549 724	31 344 644	32 896 327	35 710 874
O	29 294 559	33 070 022	35 902 602	34 970 472	37 695 719 1/
N	29 960 074	33 084 713	33 709 581	34 300 610	
D	23 877 458	26 338 721	28 128 922	29 016 347	
Year	308 790 007	339 096 803	368 283 280	373 568 657	
Seasonally adjusted values					
J	23 568 948	26 617 550	30 593 603	31 193 408	31 732 010
F	24 832 466	26 859 192	30 567 793	30 679 995	31 511 776
M	25 197 382	26 773 545	28 582 150	30 972 059	31 557 322
A	24 367 900	27 784 852	32 061 260	31 258 285	31 960 405
M	25 935 183	28 331 056	30 602 375	30 328 187	32 702 395
J	25 878 183	27 928 314	30 239 655	31 413 231	32 821 408
J	25 451 138	28 203 489	30 911 078	31 413 552	32 990 327
A	26 394 220	28 950 831	30 868 049	30 353 365	33 461 441
S	26 553 383	28 364 525	30 119 936	31 617 129	34 326 056
O	26 342 788	29 692 526	32 126 025	31 274 519	33 717 348
N	26 840 731	29 729 257	30 434 504	31 041 937	
D	26 802 023	29 366 251	31 232 889	32 127 408	

\* Revised  
1/ Preliminary

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

R1 000

Manufacturing divisions and major groups	Year	Actual values			Seasonally adjusted values			
		1998	October 1/	September	October	October	September	October
			1999		1998	1999		1998
Food and food products	54 944 819	5 257 267	4 660 094	5 178 983	4 655 653	4 762 805	4 594 122	
Meat, fish, fruit etc.	16 411 979	1 556 843	1 371 343	1 611 931	1 423 619	1 421 256	1 478 493	
Dairy products	6 954 627	653 534	630 459	605 462	605 766	626 152	559 974	
Grain mill products	14 300 899	1 365 811	1 216 260	1 317 071	1 251 236	1 292 181	1 205 997	
Other food products	17 277 314	1 681 079	1 442 032	1 644 519	1 421 526	1 431 472	1 390 967	
Beverages	19 339 197	1 901 698	1 726 383	1 781 020	1 756 118	1 749 789	1 647 109	
Total textiles	9 764 976	965 048	891 926	968 895	838 547	846 936	845 623	
Textiles	6 505 239	615 684	581 512	649 338	538 359	549 066	570 188	
Other textile products	3 259 737	349 364	310 414	319 557	295 168	294 813	271 489	
Total Wearing apparel	10 640 609	1 170 991	1 059 257	1 116 336	907 563	933 342	867 584	
Knitted, crocheted articles	1 818 520	176 442	181 082	157 817	168 766	176 920	151 209	
Wearing apparel	8 822 089	994 549	878 175	958 519	744 801	752 993	719 439	
Tanning and dressing of leather	2 175 029	270 246	217 596	251 668	226 353	216 705	212 291	
Footwear	2 417 423	264 583	241 639	256 237	201 007	195 914	193 991	
Wood and products of wood	7 661 759	829 201	686 359	708 268	722 430	640 435	616 530	
Sawmilling and planing of wood	2 373 387	241 465	171 168	194 553	209 797	147 123	168 849	
Products of wood	5 288 372	587 736	515 191	513 715	505 852	492 045	442 461	
Paper and paper products	18 347 044	1 736 327	1 832 749	1 588 184	1 585 444	1 616 294	1 446 781	
Total publishing and printing	11 150 070	1 110 025	989 424	1 051 951	979 926	956 393	929 947	
Publishing	4 203 148	432 642	397 699	377 467	412 035	387 621	358 597	
Printing, recorded media	6 946 922	677 383	591 725	674 484	586 773	568 633	584 956	
Coke and refined petroleum products	17 726 058	2 007 260	1 863 388	1 383 850	1 935 177	1 846 467	1 338 813	
Basic chemicals	17 756 594	1 844 615	1 832 221	1 805 892	1 570 927	1 737 468	1 541 756	
Other chemical products	23 774 566	2 508 076	2 281 939	2 377 873	2 155 069	2 163 152	2 047 511	
Rubber products	4 096 126	387 766	378 681	317 184	363 050	355 201	295 716	
Plastic products	9 539 465	948 377	880 312	926 060	804 089	830 166	785 573	
Glass and glass products	2 177 817	236 871	203 976	199 248	199 676	184 549	167 248	
Other non-metallic mineral products	9 395 700	854 103	853 985	855 397	766 893	771 130	765 755	
Basic iron and steel products	25 819 013	2 364 079	2 302 600	2 361 172	2 190 345	2 278 405	2 191 767	
Basic precious and non-ferrous metal products	11 659 371	1 144 538	1 110 634	1 093 598	1 097 296	1 074 529	1 048 808	
Fabricated metal products	24 615 193	2 106 134	2 358 658	2 258 619	1 890 878	2 256 005	2 026 324	
Structural metal products	9 323 812	646 590	891 000	869 261	590 493	902 446	795 511	
Other fabricated metal product	15 291 381	1 459 544	1 467 658	1 389 358	1 311 164	1 357 487	1 244 293	
Total machinery and equipment	18 706 080	1 563 226	1 742 272	1 597 520	1 406 072	1 534 613	1 425 886	
General purpose machinery	8 416 343	692 164	873 005	687 114	628 508	793 333	618 609	
Special purpose machinery	8 428 352	668 979	691 047	693 698	587 102	619 607	605 705	
Household appliances	1 861 385	202 083	178 220	216 708	153 909	164 693	165 471	
Electrical machinery, apparatus	11 597 129	1 080 124	1 057 361	1 090 996	982 198	997 236	993 424	
Radio, television and communication apparatus	4 272 554	474 121	415 994	384 794	445 443	400 801	361 586	
Professional equipment	1 200 759	116 641	120 828	101 868	112 065	116 570	97 579	
Motor vehicles; trailers; parts and accessories	35 303 637	4 383 116	4 015 678	3 298 359	3 806 759	4 008 885	2 863 827	
Motor vehicles	24 279 450	3 153 179	2 858 580	2 160 652	2 779 048	2 890 990	1 900 408	
Bodies for motor vehicles; trailers and semi-trailers	1 674 383	129 506	146 910	168 212	108 427	139 623	140 588	
Parts and accessories	9 349 804	1 100 431	1 010 188	969 495	928 888	988 835	822 130	
Other transport equipment	2 457 553	226 711	221 674	221 988	206 737	219 687	199 503	
Furniture	5 849 210	829 126	590 757	693 591	600 637	540 476	505 794	
Other manufacturing industries	11 180 906	1 115 449	1 174 489	1 100 921	978 525	1 182 239	965 684	
TOTAL	373 568 657	37 695 719	35 710 874	34 970 472	33 717 348	34 326 056	31 274 519	

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	October	September	October	October	September	October
	1999		1998	1999		1998
Spinning, weaving and finishing of textiles	239 118	225 129	200 374	232 631	216 548	195 169
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	41 760	25 894	16 769	40 926	25 874	16 635
Other textile articles	66 986	66 238	75 125	63 424	61 529	71 022
Knitted and crotcheted fabrics and articles	214 775	154 599	169 316	194 129	140 722	152 758
Wearing apparel	830 718	766 973	851 391	763 450	722 939	785 367
Sawmilling and preserving of timber	20 392	21 169	19 663	20 194	20 518	19 466
Veneer sheets, plywood, laminboard, etc.	20 896	18 870	21 942	18 488	17 995	19 503
Builders' carpentry and joinery	68 696	77 594	50 085	62 367	71 805	45 157
Pulp, paper and paperboard	307 499	265 563	228 034	287 556	246 808	213 019
Corrugated paper and paperboard and containers	435 899	453 693	342 173	398 425	457 176	312 461
Paints, varnishes and coatings	39 192	39 238	33 380	28 498	31 187	24 308
Basic iron and steel products	2 955 000	2 907 041	3 236 561	2 910 345	2 885 710	3 188 660
Steel pipe and tube mills	233 507	187 242	177 972	214 517	184 393	164 074
Basic precious and non-ferrous metal products	1 106 004	1 033 212	979 703	1 054 901	1 019 559	943 304
Metal structures, parts	1 326 749	1 257 035	1 461 818	1 323 738	1 285 055	1 457 029
Cutlery, hand tools and general hardware	36 010	34 620	35 994	32 969	34 526	33 162
Metal containers, e.g. cans and tins	57 825	60 632	62 409	54 844	64 074	59 481
Cables, wire products, springs	70 914	67 953	67 735	69 363	69 086	66 220
Metal fasteners	35 159	36 863	30 630	33 818	38 380	29 811
All other metal products	1 056 378	930 589	1 064 648	1 006 281	823 176	1 016 668
Domestic appliances	42 592	47 163	28 682	48 933	47 703	32 825
Electric motors, generators and transformers	478 536	461 353	485 105	479 358	465 277	484 642
Insulated wire and cables	167 397	184 824	214 084	165 795	176 941	213 584
Accumulators, primary cells and primary batteries	14 681	13 027	13 080	14 047	12 947	12 601
Television, radio and						

communication apparatus		859 142	768 766	603 970		822 932	740 246	586 971
Motor vehicles		1 858 197	1 791 513	1 577 115		1 897 380	1 797 498	1 622 776
Parts and accessories for								
motor vehicles		283 227	272 920	261 022		303 311	272 867	277 905
Furniture		273 791	282 743	277 802		202 419	210 983	205 304

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