

Manufacturing: production and sales

Statistical release

P3041.2

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Key figures for the year 1999 and month ended December 1999

Actual estimates	December 1999	% change between December 1998 and December 1999	% change between October 1998 to December 1998 and October 1999 to December 1999	% change between January 1998 to December 1998 and January 1999 to December 1999
Physical volume of manufacturing production index	+90,5	+6,1	+3,5	+0,2
Total value of sales of manufactured products	R32 920,1 million	+13,5	+11,2	+6,6

Seasonally adjusted estimates	December 1999	% change between November 1999 and December 1999	% change between July 1999 to September 1999 and October 1999 to December 1999
Physical volume of manufacturing production index	106,1	+1,3	+2,8
Total value of sales of manufactured products	R35 985,3 million	+2,4	+4,4

Key findings for the year 1999

Manufacturing production increases

The total manufacturing production for the year 1999 reflected a slight increase of 0,2% compared with the year 1998. Higher manufacturing production was reported by 11 of the 27 manufacturing major divisions.

The major contributors to the annual increase of 0,2% were the motor vehicle division (+1,0 percentage point), followed by the basic chemical (+0,3 of a percentage point), the coke and refined petroleum products (+0,2 of a percentage point) and the paper and paper products (+0,2 of a percentage point) divisions. However, these increases were, *inter alia*, partially counteracted by decreases in production reported by the metal products (-0,6 of a percentage point), the non-metallic mineral products (-0,4 of a percentage point) and the machinery (-0,4 of a percentage point) divisions.

The total value of sales of manufactured products for the year 1999 reflected an increase of 6,6% (R24 677 million) compared with 1998. The largest increases were reported by the motor vehicle (+20,6% or R7 261 million), the coke and refined petroleum products (+15,4% or R2 740 million), the basic chemical (+12,9% or R2 285 million), the paper and paper products (+11,4% or R2 098 million) and the food (+3,8% or R2 083 million) divisions during this period.

Key findings for the month ended December 1999

Manufacturing production increases

Manufacturing production for the fourth quarter of 1999 reflected an increase of 2,8% after seasonal adjustment compared with the third quarter of 1999. Higher manufacturing production was reported by 19 of the 27 manufacturing major divisions.

The major contributors to the increase of 2,8% after seasonal adjustment in the total manufacturing production were the basic iron and steel (+0,7 of a percentage point), followed by the other chemical products (+0,5 of a percentage point), the motor vehicle (+0,4 of a percentage point) and the wearing apparel (+0,3 of a percentage point) divisions. However, these increases were, *inter alia*, partially counteracted by decreases in production reported by the metal products (-0,8 of a percentage point) and the food and food products (-0,5 of a percentage point) divisions.

The total value of sales of manufactured products reflected an increase of 4,4% (R4 459 million) after seasonal adjustment compared with the third quarter of 1999. The largest increases were reported by the coke and refined petroleum products (+8,5% or R457 million), the paper and paper products (+8,1% or R402 million), the basic iron and steel products (+6,6% or R439 million) and the motor vehicles (+5,0% or R566 million) divisions during this period..

Notes

Forthcoming issues Issue Expected release date

January 2000 7 March 2000

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 in order to estimate the gross domestic product (GDP) to monitor and develop Government policy.

Additional information

Explanatory Notes

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

2 In accordance to international practice, the indices have to be rebased every five years to a new base year. The indices in this statistical release have been calculated on the basis of 1995=100 since November 1997. Both actual and seasonally adjusted figures are presented.

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

4 Production indices and value of sales of the manufacturing industry are reflected from January 1993 in this statistical release, in order to provide users with comparable time series. The information in this statistical release replaces previously published monthly information.

Scope of the survey 5 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 6 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 7 The basic statistical unit for the collection of information is the manufacturing establishment. An establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (cf. paragraph 6).

Survey methodology and 8 The survey is collected by mail each month from a sample of approximately 2 700 **design** manufacturing establishments.

9 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.

10 The above-mentioned measurement method in paragraph 9 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 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 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.

Sample design 11 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 12 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.

13 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 14 In order to calculate a production index for the total manufacturing industry, the **total manufacturing industry** 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 15 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 quarter-to-quarter movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.

Historical data 16 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 17 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 18 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 Rom. Generally a charge is made for providing unpublished statistics.

Rounding-off of figures 19 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 20 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

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

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

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

Manufacturing Divisions	Percentage contribution to the total manufacturing production in the base year 1995 (Weights)	Average seasonally adjusted production index for the three months Oct.1999 - Dec. 1999	Quarterly percentage change (Oct. 1999 - Dec. 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	96,8	-4,3	-0,46
Beverages	4,6	100,7	+2,1	+0,10
Total textiles	2,9	98,9	+4,5	+0,13
Total Wearing apparel	3,6	94,2	+9,3	+0,34
Tanning and dressing of leather	0,4	124,8	-0,3	-0,00
Footwear	0,9	67,9	-2,9	-0,03
Wood and products of wood	1,9	119,6	+7,3	+0,14
Paper and paper products	5,3	100,7	+5,1	+0,27
Total publishing and printing	4,1	94,1	+0,4	+0,02
Coke and refined petroleum products	4,2	104,5	-3,7	-0,15
Basic chemicals	4,5	131,7	+1,0	+0,05
Other chemical products	6,2	108,1	+7,2	+0,45
Rubber products	1,4	97,2	+0,8	+0,01
Plastic products	3,1	93,2	+10,6	+0,33
Glass and glass products	1,0	85,6	-1,6	-0,02
Other non-metallic mineral products	3,5	86,3	+2,6	+0,09
Basic iron and steel products	7,6	107,2	+9,5	+0,72
Basic precious and non-ferrous metal products	3,2	160,9	+3,1	+0,10
Fabricated metal products	7,0	91,7	-11,1	-0,78
Total machinery and equipment	5,8	93,4	+1,0	+0,06
Electrical machinery, apparatus	3,4	97,9	+7,5	+0,26
Radio, television and communication apparatus	1,0	123,9	-0,6	-0,01
Professional equipment	0,5	80,0	+5,0	+0,03
Motor vehicles; trailers; parts and accessories	8,0	111,7	+5,0	+0,40
Other transport equipment	1,0	111,7	-1,7	-0,02
Furniture	1,6	109,6	+8,3	+0,13
Other manufacturing industries	2,6	116,5	+3,6	+0,09
TOTAL	100,0	104,0	+2,8	+2,80

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

Base 1995 = 100

Month	1993	1994	1995	1996	1997	1998	1999
Actual indices							
J	72,6	72,7	80,6	83,6	89,8	89,6	86,7
F	86,9	87,0	97,6	96,7	103,1	101,1	98,0
M	94,0	95,6	104,2	102,6	102,5	102,8	101,5
A	80,7	82,8	91,0	96,4	105,5	96,3	94,8
M	84,0	84,8	101,8	104,1	106,2	101,1	101,1
J	89,4	92,4	102,4	102,9	104,9	104,5	100,5
J	88,8	92,9	101,7	104,7	108,2	104,4	104,3
A	91,1	94,0	106,0	107,8	105,8	100,0	103,7
S	92,7	100,9	106,7	105,2	108,3	106,8	107,0
O	96,7	104,2	112,5	115,8	119,1	111,8	112,5
N	99,5	108,2	110,7	114,4	111,7	109,8	114,7
D	79,3	85,3	84,8	83,7	86,9	85,3	90,5 1/
Year	88,0	91,7	100,0	101,5	104,3	101,1	101,3
Seasonally adjusted indices							
J	87,3	87,5	96,5	99,3	105,5	104,5	100,6
F	87,9	88,3	99,4	98,6	105,1	103,1	99,9
M	89,4	91,2	100,0	99,3	100,0	100,8	99,8
A	86,3	88,6	97,1	102,5	111,6	101,6	100,0
M	85,1	85,3	101,7	103,4	105,1	100,0	100,1
J	88,3	91,4	101,3	101,9	104,1	103,9	100,0
J	87,9	91,6	99,9	102,4	105,3	101,2	100,8
A	88,0	90,9	102,6	104,4	102,5	97,0	100,8
S	88,0	95,8	101,4	100,1	103,2	101,8	102,0
O	87,6	94,0	101,2	104,0	106,9	100,4	101,1
N	89,1	97,2	99,9	103,7	101,6	100,1	104,7
D	90,7	98,1	98,3	97,7	101,7	99,9	106,1

* 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			
			1999	December	November	1/ December	December	November	December
				1998	1999		1998	1999	
Food and food products	10,7	98,8	91,2	108,5	86,4	98,4	97,2	93,6	
Meat, fish, fruit etc.	2,8	112,3	108,9	121,0	112,2	112,2	116,4	115,5	
Dairy products	1,4	92,7	98,4	106,6	99,6	91,0	94,5	92,2	
Grain mill products	2,1	93,9	98,4	95,3	92,0	97,1	90,9	90,7	
Other food products	4,4	94,4	74,3	107,3	63,0	90,7	90,3	78,0	
Beverages	4,6	100,8	134,7	120,0	130,6	99,9	102,2	97,3	
Total textiles	2,9	91,4	58,3	107,5	68,3	88,1	96,8	103,3	
Textiles	1,7	84,0	57,3	93,9	61,1	88,5	87,3	94,4	
Other textile products	1,2	101,8	59,8	126,8	78,5	90,7	108,4	119,9	
Total Wearing apparel	3,6	88,8	64,5	110,8	72,6	87,9	95,1	98,2	
Knitted, crocheted articles	0,6	82,3	52,9	98,7	57,8	80,3	94,8	88,3	
Wearing apparel	3,0	90,1	66,8	113,2	75,6	90,0	95,5	101,0	
Tanning and dressing of leather	0,4	121,5	61,7	136,2	91,5	92,3	111,6	136,9	
Footwear	0,9	69,2	49,0	85,0	46,1	72,9	67,4	68,1	
Wood and products of wood	1,9	114,4	79,1	138,7	90,6	105,2	120,3	120,4	
Sawmilling and planing of wood	0,8	104,2	67,4	131,6	81,4	90,3	116,3	109,8	
Products of wood	1,2	121,0	86,7	143,3	96,7	113,7	125,2	126,6	
Paper and paper products	5,3	98,0	88,9	108,3	99,2	95,2	102,0	105,6	
Total publishing and printing	4,1	93,5	84,3	107,1	86,1	94,2	94,4	96,1	
Publishing	1,5	100,7	100,1	115,7	103,4	101,0	106,2	103,7	
Printing, recorded media	2,6	89,5	75,4	102,2	76,4	89,2	88,2	91,1	
Coke and refined petroleum products	4,2	106,0	106,9	111,1	101,8	107,9	108,8	102,7	
Basic chemicals	4,5	125,9	108,2	155,4	130,7	113,5	136,8	137,4	
Other chemical products	6,2	103,3	83,7	122,5	89,1	103,2	109,8	110,4	
Rubber products	1,4	92,8	58,1	103,8	65,8	84,1	96,3	96,5	
Plastic products	3,1	86,7	65,6	103,0	74,8	90,3	88,5	102,7	
Glass and glass products	1,0	86,2	88,7	106,0	81,3	95,2	87,8	87,3	
Other non-metallic mineral products	3,5	84,3	69,0	97,4	61,4	97,6	88,3	86,4	
Basic iron and steel products	7,6	97,2	73,9	109,2	93,6	81,2	110,1	103,2	
Basic precious and non-ferrous metal products	3,2	152,5	145,0	160,5	172,5	146,9	160,8	173,0	
Fabricated metal products	7,0	99,6	93,4	113,7	76,9	110,5	97,1	91,1	
Structural metal products	2,4	96,5	127,5	101,8	73,8	135,9	82,3	78,5	
Other fabricated metal product	4,6	101,2	75,9	119,8	78,5	100,3	104,0	103,7	
Total machinery and equipment	5,8	97,1	84,8	88,7	81,9	102,3	92,9	98,2	
General purpose machinery	2,5	110,6	89,4	91,6	81,6	115,9	96,1	104,6	
Special purpose machinery	2,9	84,4	82,2	80,9	81,3	98,3	85,5	96,7	
Household appliances	0,4	105,6	74,5	128,4	87,6	104,6	108,3	122,3	
Electrical machinery, apparatus	3,4	96,2	72,0	98,9	75,7	96,3	89,6	101,6	
Radio, television and communication apparatus	1,0	125,3	98,7	141,1	82,7	131,0	129,4	110,2	
Professional equipment	0,5	77,9	58,4	81,9	64,1	74,9	77,4	81,7	
Motor vehicles; trailers; parts and accessories	8,0	101,9	57,7	119,2	78,3	95,6	107,7	129,5	
Motor vehicles	4,5	96,6	52,2	115,6	70,9	89,4	103,9	121,7	
Bodies for motor vehicles; trailers and semi-trailers	0,5	63,9	54,6	69,3	45,4	84,8	61,9	70,7	
Parts and accessories	3,0	116,8	66,5	133,7	95,5	114,8	118,9	163,7	
Other transport equipment	1,0	115,2	111,0	109,1	99,0	128,8	115,7	114,4	
Furniture	1,6	105,2	65,8	137,9	77,1	97,1	110,8	114,6	
Other manufacturing industries	2,6	107,7	79,4	134,7	94,5	106,7	113,9	126,4	
TOTAL	100,0	101,3	85,3	114,7	90,5	99,9	104,7	106,1	

* Revised

1/ Preliminary

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

Month	1993	1994	1995	1996	1997	1998	1999
Actual values							
J	15 265 514	16 267 098	19 206 220	21 803 249	25 254 480	25 913 926	26 478 071
F	18 628 666	19 815 926	24 414 317	26 328 500	29 866 793	29 901 544	30 666 092
M	20 465 491	22 056 191	26 712 878	28 188 286	29 866 272	32 190 538	32 735 187
A	17 598 780	19 132 660	22 897 368	26 231 967	30 438 604	29 758 879	30 458 581
M	18 358 934	19 723 817	25 806 431	28 293 052	30 626 091	30 352 835	32 670 212
J	19 618 018	22 055 323	26 204 689	28 261 416	30 575 542	31 723 893	33 085 795
J	19 600 095	22 251 097	25 613 126	28 378 392	31 169 707	31 732 667	33 386 986
A	20 414 645	21 957 670	27 064 919	29 568 761	31 400 042	30 810 619	33 749 585
S	20 820 252	23 954 300	27 737 968	29 549 724	31 344 644	32 896 327	35 709 598
O	21 614 780	25 209 944	29 294 559	33 070 022	35 902 602	34 970 472	37 696 821
N	22 179 110	26 275 416	29 960 074	33 084 713	33 709 581	34 300 610	38 688 818
D	17 877 992	20 667 319	23 877 458	26 338 721	28 128 922	29 016 347	32 920 082 1/
Year	232 442 277	259 366 761	308 790 007	339 096 803	368 283 280	373 568 657	398 245 828
Seasonally adjusted values							
J	18 675 488	19 968 392	23 568 622	26 620 180	30 596 886	31 212 096	31 756 337
F	18 874 443	20 091 705	24 836 302	26 866 835	30 576 232	30 702 368	31 538 656
M	19 192 064	20 711 733	25 203 811	26 784 074	28 594 010	30 999 023	31 589 939
A	18 818 015	20 443 773	24 378 923	27 799 991	32 077 869	31 286 332	31 995 564
M	18 627 283	19 910 264	25 929 919	28 310 860	30 564 984	30 289 385	32 651 071
J	19 376 847	21 793 836	25 885 184	27 933 290	30 253 601	31 427 974	32 787 273
J	19 467 934	22 114 891	25 451 489	28 198 604	30 916 544	31 417 374	32 968 469
A	19 771 756	21 325 001	26 397 838	28 948 949	30 873 343	30 364 587	33 331 466
S	19 767 943	22 789 947	26 494 505	28 290 415	30 058 480	31 567 346	34 262 380
O	19 577 333	22 763 148	26 359 648	29 742 413	32 230 508	31 424 823	33 890 137
N	19 844 428	23 513 176	26 846 342	29 765 351	30 434 450	31 082 954	35 145 422
D	20 233 244	23 306 701	26 807 972	29 342 452	31 077 865	31 816 806	35 985 257

* Revised

1/ Preliminary

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

Manufacturing divisions and major groups	Year	Actual values			Seasonally adjusted values		
		December	November	December 1/	December	November	December
		1999	1998	1999	1998	1999	
Food and food products	57 028 284	4 641 576	5 323 875	4 918 833	4 601 917	4 750 094	4 884 182
Meat, fish, fruit etc.	17 190 695	1 436 707	1 554 792	1 506 436	1 407 100	1 430 932	1 475 681
Dairy products	7 125 862	637 300	694 662	650 617	593 439	611 546	605 114
Grain mill products	14 880 739	1 156 841	1 337 217	1 325 797	1 136 660	1 269 572	1 302 011
Other food products	17 830 988	1 410 728	1 737 204	1 435 983	1 461 873	1 421 428	1 487 535
Beverages	20 643 386	2 325 891	1 997 070	2 483 503	1 656 109	1 758 193	1 772 613
Total textiles	9 806 006	538 576	964 330	677 003	792 894	863 484	995 989
Textiles	6 321 155	338 130	594 159	401 839	527 061	541 766	624 602
Other textile products	3 484 851	200 446	370 171	275 164	264 077	318 739	361 767
Total Wearing apparel	11 017 791	681 837	1 155 624	870 737	877 553	958 721	1 118 115
Knitted, crocheted articles	1 879 747	96 189	185 363	125 069	142 048	172 384	184 641
Wearing apparel	9 138 044	585 648	970 261	745 668	729 438	787 058	925 810
Tanning and dressing of leather	2 574 036	102 680	236 611	170 900	159 732	189 264	268 203
Footwear	2 443 076	157 305	263 728	155 590	216 038	203 192	212 274
Wood and products of wood	8 033 572	514 736	845 754	627 432	649 163	746 705	787 028
Sawmilling and planing of wood	2 005 532	149 426	251 958	183 056	175 311	209 765	214 284
Products of wood	6 028 040	365 310	593 796	444 376	469 698	532 964	568 547
Paper and paper products	20 445 160	1 430 832	1 968 837	1 826 867	1 484 203	1 819 938	1 890 037
Total publishing and printing	11 716 771	901 394	1 174 990	945 919	976 825	1 018 213	1 024 258
Publishing	4 531 325	364 869	440 223	397 245	372 496	403 910	402 555
Printing, recorded media	7 185 446	536 525	734 767	548 674	602 789	610 851	619 170
Coke and refined petroleum products	20 465 786	1 399 727	2 024 052	1 981 672	1 397 591	1 916 061	1 984 793
Basic chemicals	20 041 317	1 330 744	2 212 063	1 779 330	1 399 555	1 908 172	1 870 131
Other chemical products	25 403 172	1 755 695	2 447 400	1 961 833	1 998 369	2 209 620	2 234 594
Rubber products	4 214 914	279 868	384 963	345 882	325 306	371 032	402 059
Plastic products	9 755 700	626 552	998 096	790 955	793 196	845 819	1 000 242
Glass and glass products	2 169 946	156 654	256 286	178 359	179 867	195 615	204 532
Other non-metallic mineral products	9 238 942	586 134	894 218	632 645	780 661	822 340	838 495
Basic iron and steel products	26 206 686	1 950 057	2 438 105	2 119 348	2 130 377	2 393 461	2 313 671
Basic precious and non-ferrous metal products	13 101 326	1 016 670	1 327 110	1 298 762	1 020 961	1 259 517	1 291 914
Fabricated metal products	23 894 848	2 410 546	2 245 235	1 629 871	2 739 023	1 990 477	1 845 867
Structural metal products	8 437 126	1 430 802	760 191	530 712	1 347 171	610 923	495 416
Other fabricated metal product	15 457 722	979 744	1 485 044	1 099 159	1 248 590	1 311 200	1 403 425
Total machinery and equipment	18 502 282	1 260 278	1 586 272	1 457 125	1 441 323	1 577 104	1 661 201
General purpose machinery	8 724 953	563 940	739 444	635 386	623 867	713 956	704 460
Special purpose machinery	7 850 514	588 030	642 586	684 780	654 997	674 897	757 287
Household appliances	1 926 815	108 308	204 242	136 959	149 659	167 329	190 498
Electrical machinery, apparatus	11 808 784	731 521	1 068 595	834 719	912 103	963 744	1 034 858
Radio, television and communication apparatus	4 475 700	311 542	419 898	274 678	402 459	392 072	356 650
Professional equipment	1 312 158	80 295	117 494	96 998	94 434	109 436	113 312
Motor vehicles; trailers; parts and accessories	42 564 747	2 297 593	4 261 641	3 105 024	3 171 738	3 972 348	4 259 497
Motor vehicles	30 465 944	1 676 200	3 123 567	2 274 052	2 215 440	2 938 293	2 983 507
Bodies for motor vehicles; trailers and semi-trailers	1 532 095	115 929	149 240	106 371	145 516	130 543	132 619
Parts and accessories	10 566 708	505 464	988 834	724 601	826 309	895 254	1 185 864
Other transport equipment	2 796 574	175 540	210 806	216 026	208 622	190 544	259 275
Furniture	6 461 245	369 900	732 037	431 022	479 018	561 651	562 533
Other manufacturing industries	12 123 619	982 204	1 133 728	1 109 049	1 002 158	1 074 700	1 121 873
TOTAL	398 245 828	29 016 347	38 688 818	32 920 082	31 816 806	35 145 422	35 985 257

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	December	November	December 1/	December	November	December
	1998	1999		1998	1999	
Spinning, weaving and finishing of textiles	183 064	225 747	189 677	202 354	225 390	210 479
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	12 084	27 608	28 295	13 131	32 180	31 158
Other textile articles	79 131	54 831	48 989	94 054	55 770	58 525
Knitted and crocheted fabrics and articles	141 511	156 642	149 147	146 159	155 248	153 778
Wearing apparel	673 504	777 889	707 206	743 386	768 493	778 766
Sawmilling and preserving of timber	18 708	21 197	20 789	20 686	22 369	22 952
Veneer sheets, plywood, laminboard, etc.	16 421	21 824	18 275	18 935	19 235	20 982
Builders' carpentry and joinery	64 815	64 307	57 539	70 423	62 110	62 302
Pulp, paper and paperboard	216 058	364 122	161 839	221 409	356 525	164 685
Corrugated paper and paperboard and containers	399 432	411 438	402 767	385 693	396 311	387 867
Paints, varnishes and coatings	29 971	30 463	27 375	30 080	24 956	27 287
Basic iron and steel products	3 055 896	3 039 271	3 055 898	3 018 787	2 996 269	3 013 998
Steel pipe and tube mills	150 406	229 475	258 598	149 212	222 041	257 841
Basic precious and non-ferrous metal products	840 522	1 092 137	1 017 599	874 116	1 077 856	1 063 406
Metal structures, parts	1 493 376	1 248 992	1 174 320	1 542 215	1 229 598	1 216 054
Cutlery, hand tools and general hardware	25 239	37 063	32 474	28 918	35 695	37 233
Metal containers, e.g. cans and tins	56 861	64 410	62 563	52 915	60 110	58 492
Cables, wire products, springs	61 135	57 529	42 236	69 532	57 245	47 638
Metal fasteners	25 240	39 505	33 040	28 549	38 609	37 678
All other metal products	1 031 586	1 067 429	1 103 192	1 121 949	1 094 597	1 193 806
Domestic appliances	38 218	38 452	35 602	41 449	43 709	38 597
Electric motors, generators and transformers	434 879	463 275	450 439	474 212	483 423	492 554
Insulated wire and cables	154 680	164 941	133 618	188 395	183 219	163 852
Accumulators, primary cells and primary batteries	11 585	13 730	15 847	12 603	15 088	17 184
Television, radio and communication apparatus	600 501	754 405	725 003	624 204	754 606	757 210
Motor vehicles	1 720 022	1 780 922	1 718 411	2 061 397	1 908 966	2 023 531
Parts and accessories for motor vehicles	269 818	243 954	277 236	276 996	272 006	285 314
Furniture	171 349	241 661	214 638	198 150	210 146	248 369

* Revised