

Manufacturing: production and sales P3041.2

November 1999
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Key figures for the month ended November 1999

Actual estimates	November 1999	% change between November 1998 and November 1999	% change between September 1998 to November 1998 and September 1999 to November 1999	% change between January 1998 to November 1998 and January 1999 to November 1999
Physical volume of manufacturing production index	114,2	+4,0	+1,7	-0,4
Total value of sales of manufactured products	R38 802,5 million	+13,1	+9,8	+6,1
Seasonally adjusted estimates	November 1999	% change between October 1999 and November 1999	% change between June 1999 to August 1999 and September 1999 to November 1999	
Physical volume of manufacturing production index	104,1	+3,2	+1,8	
Total value of sales of manufactured products	R35 086,2 million	+3,7	+4,1	

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the three months up to November 1999 reflected an increase of 1,8% after seasonal adjustment compared with the previous three months. Higher manufacturing production was reported by 19 of the 27 manufacturing major divisions.

The major contributors to the increase of 1,8% 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 other chemical products (+0,2 of a percentage point), electrical machinery (+0,2 of a percentage point) and motor vehicle (+0,2 of a percentage point) divisions.

The total value of sales of manufactured products reflected an increase of 4,1% (R4 022 million) after seasonal adjustment for the three months up to November 1999 compared with the previous three months. The largest increases were reported by the motor vehicle (+10,1% or R1 098 million), the basic iron and steel (+8,6% or R545 million), the coke and refined petroleum products (+7,3% or R389 million) and the other chemicals (+3,9% or R244 million) divisions during this period.

Notes

Forthcoming issues Issue Expected release date

December 1999 8 February 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 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, 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 This statistical release reflects indices of the physical volume of manufacturing production and the total value of sales of manufactured products and unfilled orders, 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 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 next 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 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 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.

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 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 manu-

facturing 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 or diskette. 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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Summary - Total manufacturing

Period	Production indices	Sales	Percentage change of:	
	1995 = 100	R mill.	Production indices	Sales
Actual				
Sept. 1999 - Nov. 1999	111,4	112 219,8	+1,7	+9,8
Sept. 1998 - Nov. 1998	109,5	102 167,4		
Seasonally adjusted				
Sept. 1999 - Nov. 1999	102,4	103 281,4	+1,8	+4,1
Jun. 1999 - Aug. 1999	100,6	99 259,1		

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 Sept1999 - Nov. 1999	Quarterly percentage change (Sept. 1999 - Nov. 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	99,8	-1,4	-0,15
Beverages	4,6	101,9	+2,9	+0,13
Total textiles	2,9	96,6	+4,4	+0,13
Total Wearing apparel	3,6	89,4	+1,7	+0,06
Tanning and dressing of leather	0,4	116,8	-6,3	-0,03
Footwear	0,9	66,6	-7,9	-0,07
Wood and products of wood	1,9	114,7	+2,7	+0,05
Paper and paper products	5,3	96,2	+2,0	+0,11
Total publishing and printing	4,1	92,7	-1,2	-0,05
Coke and refined petroleum products	4,2	106,3	-0,8	-0,03
Basic chemicals	4,5	124,1	+0,6	+0,03
Other chemical products	6,2	103,0	+3,5	+0,22
Rubber products	1,4	95,9	+3,3	+0,05
Plastic products	3,1	87,3	+3,1	+0,10
Glass and glass products	1,0	89,8	+8,2	+0,08
Other non-metallic mineral products	3,5	85,8	+2,6	+0,09
Basic iron and steel products	7,6	104,1	+9,8	+0,74
Basic precious and non-ferrous metal products	3,2	155,8	-0,7	-0,02
Fabricated metal products	7,0	100,1	+1,5	+0,11
Total machinery and equipment	5,8	93,9	-3,9	-0,23
Electrical machinery, apparatus	3,4	96,3	+6,6	+0,23
Radio, television and communication apparatus	1,0	142,7	+7,1	+0,07
Professional equipment	0,5	79,7	+7,1	+0,04
Motor vehicles; trailers; parts and accessories	8,0	104,9	+2,0	+0,16
Other transport equipment	1,0	113,8	+2,5	+0,03
Furniture	1,6	103,0	-0,8	-0,01
Other manufacturing industries	2,6	114,6	+5,8	+0,15
TOTAL	100,0	102,4	+1,8	+1,80

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
 Historical table
 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	101,4
A	80,7	82,8	91,0	96,4	105,5	96,3	94,7
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	100,6
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	103,8
S	92,7	100,9	106,7	105,2	108,3	106,8	107,1
O	96,7	104,2	112,5	115,8	119,1	111,8	112,9
N	99,5	108,2	110,7	114,4	111,7	109,8	114,2 1/
D	79,3	85,3	84,8	83,7	86,9	85,3	
YEAR	88,0	91,7	100,0	101,5	104,3	101,1	
Seasonally adjusted indices							
J	87,3	87,5	96,6	99,3	105,5	104,5	100,7
F	87,9	88,3	99,4	98,6	105,2	103,2	99,9
M	89,4	91,2	100,1	99,3	100,1	100,9	99,8
A	86,3	88,6	97,1	102,6	111,7	101,7	99,9
M	85,1	85,3	101,7	103,5	105,2	100,1	100,1
J	88,3	91,4	101,3	101,8	104,0	103,8	99,9
J	87,9	91,6	99,9	102,4	105,3	101,2	100,9
A	88,0	90,9	102,6	104,4	102,6	97,1	101,0
S	88,0	95,8	101,4	100,1	103,1	101,8	102,1
O	87,6	93,9	101,0	103,6	106,4	99,8	100,9
N	89,1	97,2	99,9	103,7	101,6	100,0	104,1
D	90,7	98,1	98,3	97,8	102,1	100,5	

* 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 1998	Actual indices				Seasonally adjusted indices		
			November/October		November	November		October	November
			1999		1998	1999		1998	
Food and food products	10,7	100,2	108,8	110,1	113,5	97,9	99,8	102,0	
Meat, fish, fruit etc.	2,8	109,1	119,5	115,2	119,1	115,0	110,5	115,0	
Dairy products	1,4	92,9	106,0	104,6	100,2	94,9	96,3	89,5	
Grain mill products	2,1	95,9	95,8	102,7	100,1	91,7	93,2	95,8	
Other food products	4,4	98,8	109,1	112,1	120,4	92,0	96,0	101,1	
Beverages	4,6	102,3	119,4	114,1	116,5	102,2	102,8	99,7	
Total textiles	2,9	93,6	110,9	110,3	99,4	98,6	95,1	88,3	
Textiles	1,7	88,5	99,4	102,3	89,6	90,8	87,5	82,0	
Other textile products	1,2	100,7	127,3	121,6	113,3	107,8	103,8	95,6	
Total Wearing apparel	3,6	87,5	113,1	111,5	100,8	96,4	88,7	85,8	
Knitted, crocheted articles	0,6	83,6	97,9	101,2	82,9	95,4	90,8	80,4	
Wearing apparel	3,0	88,2	116,2	113,6	104,4	98,8	88,3	88,5	
Tanning and dressing of leather	0,4	110,5	126,9	151,3	136,1	105,9	121,8	113,3	
Footwear	0,9	74,5	85,0	86,8	80,1	68,7	68,3	64,4	
Wood and products of wood	1,9	107,4	133,1	131,8	126,6	117,9	116,2	112,2	
Sawmilling and planing of wood	0,8	100,8	126,6	122,4	109,8	112,5	109,5	98,1	
Products of wood	1,2	111,7	137,4	137,9	137,7	120,1	119,7	120,0	
Paper and paper products	5,3	94,0	105,3	100,5	97,0	99,1	93,1	90,6	
Total publishing and printing	4,1	93,7	107,5	104,3	107,7	94,4	91,7	94,4	
Publishing	1,5	98,1	111,7	113,8	105,6	103,8	107,2	97,4	
Printing, recorded media	2,6	91,2	105,2	98,9	108,9	89,1	84,1	92,2	
Coke and refined petroleum products	4,2	100,2	109,8	100,0	108,4	108,9	101,1	107,3	
Basic chemicals	4,5	117,1	140,1	135,3	137,0	125,1	119,1	122,8	
Other chemical products	6,2	103,1	115,3	121,2	110,8	104,9	103,5	100,0	
Rubber products	1,4	94,4	103,8	103,0	95,8	96,6	99,6	88,9	
Plastic products	3,1	90,8	104,2	104,8	105,3	88,8	88,2	89,6	
Glass and glass products	1,0	89,6	115,8	92,3	107,4	94,3	85,7	88,0	
Other non-metallic mineral products	3,5	94,2	96,9	93,9	99,0	88,0	84,8	89,9	
Basic iron and steel products	7,6	97,1	109,2	106,7	85,1	110,6	103,5	86,1	
Basic precious and non-ferrous metal products	3,2	144,5	160,7	160,1	148,3	159,3	153,1	145,6	
Fabricated metal products	7,0	108,6	118,4	102,1	125,0	100,9	91,4	106,5	
Structural metal products	2,4	117,4	115,8	85,5	142,8	92,2	73,6	114,0	
Other fabricated metal product	4,6	104,2	119,8	110,6	115,9	103,1	98,5	99,7	
Total machinery and equipment	5,8	103,4	93,8	102,2	98,0	97,2	93,4	102,0	
General purpose machinery	2,5	109,8	102,4	101,4	106,2	104,5	103,4	107,5	
Special purpose machinery	2,9	97,5	80,9	98,5	86,7	85,9	83,2	92,2	
Household appliances	0,4	106,6	134,3	134,6	129,2	111,0	104,9	107,6	
Electrical machinery, apparatus	3,4	98,6	101,4	114,0	109,0	92,1	103,8	98,8	
Radio, television and communication apparatus	1,0	120,2	155,5	157,6	137,8	144,1	148,3	126,5	
Professional equipment	0,5	79,1	81,9	85,3	80,1	77,2	81,6	74,9	
Motor vehicles; trailers; parts and accessories	8,0	90,7	115,9	121,3	103,2	103,9	102,0	92,7	
Motor vehicles	4,5	82,1	115,6	106,8	95,3	103,6	87,5	85,9	
Bodies for motor vehicles; trailers and semi-trailers	0,5	69,5	67,6	75,6	79,7	60,8	72,9	71,3	
Parts and accessories	3,0	107,5	125,2	151,4	119,4	113,6	124,2	108,1	
Other transport equipment	1,0	126,3	109,1	115,0	117,3	115,3	108,6	123,4	
Furniture	1,6	103,4	129,0	129,4	118,0	104,4	101,2	94,5	
Other manufacturing industries	2,6	111,9	140,2	130,4	130,0	116,7	108,6	108,0	
TOTAL	100,0	101,1	114,2	112,9	109,8	104,1	100,9	100,0	

* Revised
1/ Preliminary

Table 3 - Value of sales - Manufacturing - Total
Historical table (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	30 458 035
M	18 358 934	19 723 817	25 806 431	28 293 052	30 626 091	30 352 835	32 675 430
J	19 618 018	22 055 323	26 204 689	28 261 416	30 575 542	31 723 893	33 132 753
J	19 600 095	22 251 097	25 613 126	28 378 392	31 169 707	31 732 667	33 405 201
A	20 414 645	21 957 670	27 064 919	29 568 761	31 400 042	30 810 619	33 883 290
S	20 820 252	23 954 300	27 737 968	29 549 724	31 344 644	32 896 327	35 733 873*
O	21 614 780	25 209 944	29 294 559	33 070 022	35 902 602	34 970 472	37 683 490
N	22 179 110	26 275 416	29 960 074	33 084 713	33 709 581	34 300 610	38 802 468 1/
D	17 877 992	20 667 319	23 877 458	26 338 721	28 128 922	29 016 347	
YEAR	232 442 277	259 366 761	308 790 007	339 096 803	368 283 280	373 568 657	
Seasonally adjusted values							
J	18 676 753	19 969 683	23 567 764	26 614 688	30 584 902	31 187 257	31 720 709
F	18 873 564	20 089 651	24 831 002	26 856 449	30 560 227	30 675 922	31 503 360
M	19 190 605	20 708 213	25 195 444	26 770 266	28 575 286	30 969 153	31 551 290
A	18 819 546	20 444 841	24 375 303	27 791 415	32 061 580	31 259 840	31 956 645
M	18 624 982	19 905 862	25 931 349	28 323 677	30 594 991	30 320 972	32 688 608
J	19 375 132	21 789 628	25 874 577	27 919 811	30 233 371	31 401 554	32 802 127
J	19 470 684	22 117 495	25 449 041	28 196 226	30 905 876	31 402 931	32 971 691
A	19 767 327	21 317 422	26 395 564	28 956 215	30 888 705	30 377 664	33 485 255
S	19 775 804	22 819 455	26 551 307	28 365 554	30 134 968	31 641 266	34 370 744
O	19 577 767	22 762 511	26 356 376	29 731 308	32 200 182	31 377 073	33 824 453
N	19 844 294	23 510 024	26 838 222	29 727 897	30 354 447	30 952 622	35 086 189
D	20 232 478	23 302 862	26 799 050	29 357 247	31 225 776	32 114 665	

* 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		
		November/1/October		November	November	October	November
		1999		1998	1999		1998
Food and food products	54 944 819	5 327 720	5 281 250	5 259 394	4 738 299	4 685 142	4 684 928
Meat, fish, fruit etc.	16 411 979	1 538 119	1 556 318	1 529 113	1 412 232	1 422 762	1 406 704
Dairy products	6 954 627	702 722	653 534	650 945	621 109	606 225	575 297
Grain mill products	14 300 899	1 336 323	1 362 107	1 283 660	1 262 893	1 247 296	1 216 088
Other food products	17 277 314	1 750 556	1 709 291	1 795 676	1 424 764	1 443 610	1 458 020
Beverages	19 339 197	1 959 444	1 933 776	1 771 317	1 737 131	1 775 876	1 568 143
Total textiles	9 764 976	979 030	958 166	870 898	870 506	837 811	774 298
Textiles	6 505 239	613 004	610 121	565 019	552 852	535 843	510 275
Other textile products	3 259 737	366 026	348 045	305 879	313 144	295 658	260 761
Total Wearing apparel	10 640 609	1 177 082	1 157 922	1 058 552	965 872	904 438	869 548
Knitted, crocheted articles	1 818 520	189 287	174 366	158 233	174 175	166 976	145 730
Wearing apparel	8 822 089	987 795	983 556	900 319	795 155	742 751	725 296
Tanning and dressing of leather	2 175 029	223 104	270 246	224 884	180 871	223 368	182 134
Footwear	2 417 423	251 085	264 583	234 880	199 603	200 446	185 524
Wood and products of wood	7 661 759	849 984	825 778	732 519	742 448	717 292	639 319
Sawmilling and planing of wood	2 373 387	272 536	238 354	222 474	230 055	207 056	189 080
Products of wood	5 288 372	577 448	587 424	510 045	515 971	506 639	453 301
Paper and paper products	18 347 044	1 949 280	1 736 327	1 687 335	1 803 030	1 612 648	1 556 161
Total publishing and printing	11 150 070	1 169 648	1 128 270	1 109 568	1 013 739	997 699	959 832
Publishing	4 203 148	429 716	432 642	385 539	397 131	410 761	353 959
Printing, recorded media	6 946 922	739 932	695 628	724 029	613 566	604 449	600 073
Coke and refined petroleum products	17 726 058	2 049 377	1 999 444	1 584 833	1 926 793	1 930 855	1 496 265
Basic chemicals	17 756 594	2 078 248	1 864 250	1 739 515	1 810 608	1 582 274	1 514 127
Other chemical products	23 774 566	2 405 988	2 511 551	2 221 471	2 180 774	2 157 826	2 004 888
Rubber products	4 096 126	384 963	389 984	334 678	369 311	364 015	318 846
Plastic products	9 539 465	1 004 696	957 839	948 834	845 138	812 702	798 531
Glass and glass products	2 177 817	263 004	236 871	229 278	198 437	200 038	173 930
Other non-metallic mineral products	9 395 700	893 509	856 896	815 718	817 129	773 313	745 960
Basic iron and steel products	25 819 013	2 456 143	2 371 245	1 941 199	2 402 357	2 207 520	1 900 615
Basic precious and non-ferrous metal products	11 659 371	1 302 042	1 139 400	1 073 587	1 218 511	1 100 389	1 004 360
Fabricated metal products	24 615 193	2 205 529	2 080 282	2 195 974	1 883 159	1 868 552	1 874 185
Structural metal products	9 323 812	690 102	648 635	753 852	619 429	588 381	670 045
Other fabricated metal product	15 291 381	1 515 427	1 431 647	1 442 122	1 330 471	1 293 834	1 264 278
Total machinery and equipment	18 706 080	1 696 275	1 585 564	1 522 943	1 674 850	1 412 572	1 498 814
General purpose machinery	8 416 343	844 841	711 425	723 745	805 686	640 372	690 012
Special purpose machinery	8 428 352	647 192	671 916	609 829	674 580	594 322	630 939
Household appliances	1 861 385	204 242	202 223	189 369	164 966	154 607	154 050
Electrical machinery, apparatus	11 597 129	1 073 006	1 074 239	1 089 134	961 678	973 900	974 535
Radio, television and communication apparatus	4 272 554	484 394	464 664	397 478	452 587	440 264	368 870
Professional equipment	1 200 759	119 567	109 183	105 929	110 131	105 715	97 151
Motor vehicles; trailers; parts and accessories	35 303 637	4 461 179	4 421 088	3 156 281	4 107 835	3 837 554	2 900 217
Motor vehicles	24 279 450	3 180 828	3 153 179	2 113 825	2 984 129	2 780 060	1 978 367
Bodies for motor vehicles; trailers and semi-trailers	1 674 383	144 089	129 506	157 694	126 885	107 522	138 717
Parts and accessories	9 349 804	1 136 262	1 138 403	884 762	1 009 452	956 836	783 793
Other transport equipment	2 457 553	217 764	235 291	307 338	184 591	208 531	262 595
Furniture	5 849 210	711 571	713 932	659 060	544 926	530 746	503 478
Other manufacturing industries	11 180 906	1 108 836	1 115 449	1 028 013	1 059 181	972 909	977 006
TOTAL	373 568 657	38 802 468	37 683 490	34 300 610	35 086 189	33 824 453	30 952 622

* Revised
1/ Preliminary

Table 5 - Value of unfilled orders according to.

selected manufacturing subgroups (R'000)

Selected Manufacturing Subgroups	Actual values			Seasonally adjusted values		
	November/	October	November	November	October	November
	1999		1998	1999		1998
Spinning, weaving and finishing of textiles	225 299	226 113	197 686	228 044	221 562	200 021
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	27 608	32 477	13 765	32 161	31 701	15 823
Other textile articles	61 939	65 733	75 584	62 271	62 540	76 052
Knitted and crotched fabrics and articles	167 744	183 540	142 812	166 240	165 404	140 852
Wearing apparel	803 089	883 814	769 067	788 574	823 179	758 171
Sawmilling and preserving of timber	21 197	21 537	18 431	22 256	21 243	19 330
Veneer sheets, plywood, laminboard, etc.	19 192	21 861	23 138	16 916	19 147	20 414
Builders' carpentry and joinery	62 562	66 797	54 201	60 120	59 640	52 322
Pulp, paper and paperboard	364 122	307 499	209 804	350 903	285 459	200 333
Corrugated paper and paperboard and containers	419 363	435 899	329 042	401 770	399 039	313 425
Paints, varnishes and coatings	59 802	39 192	33 783	43 195	30 075	25 120
Basic iron and steel products	3 008 130	2 963 571	3 093 063	2 968 131	2 919 789	3 050 317
Steel pipe and tube mills	229 475	225 488	165 874	270 596	263 069	153 212
Basic precious and non-ferrous metal products	1 092 137	1 152 297	915 831	1 083 614	1 093 733	911 657
Metal structures, parts	1 284 325	1 326 749	1 332 006	1 261 196	1 320 804	1 303 799
Cutlery, hand tools and general hardware	37 512	36 010	34 421	33 305	32 848	30 513
Metal containers, e.g. cans and tins	66 680	57 825	61 731	62 740	54 803	57 973
Cables, wire products, springs	68 253	70 914	67 296	67 287	68 638	66 079
Metal fasteners	38 454	35 159	35 702	37 847	34 629	35 281
All other metal products	1 143 492	1 188 057	972 991	1 184 646	1 122 709	1 008 052
Domestic appliances	38 452	42 592	33 984	44 132	48 225	38 849
Electric motors, generators and transformers	448 009	478 536	449 809	473 037	480 630	472 109
Insulated wire and cables	163 599	165 400	169 045	181 842	168 326	188 229
Accumulators, primary cells and primary batteries	12 725	13 787	11 144	13 838	13 440	12 088
Television, radio and						

communication apparatus	754 405	791 262	613 368	762 099	766 204	619 521
Motor vehicles	1 830 746	1 858 197	1 721 672	1 896 153	1 916 335	1 826 300
Parts and accessories for						
motor vehicles	257 386	267 231	249 893	280 517	286 454	271 497
Furniture	276 726	279 747	252 399	233 239	207 609	213 757

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* Revised