

Manufacturing: production and sales

Statistical release

P3041.2

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Key figures for the month ended March 2000

Actual estimates	March 2000	% change between March 1999 and March 2000	% change between January 1999 to March 1999 and January 2000 to March 2000
Physical volume of manufacturing production index (1995=100)	107,5	+5,9	+4,4
Total value of sales of manufactured products (R million)	37 369,8	+14,2	+12,5

Seasonally adjusted estimates	March 2000	% change between February 2000 and March 2000	% change between October 1999 to December 1999 and January 2000 to March 2000
Physical volume of manufacturing production index (1995=100)	106,5	+1,6	0,0
Total value of sales of manufactured products (R million)	36 252,4	+1,0	+1,5

Key findings for the month ended March 2000

MANUFACTURING PRODUCTION REMAINS UNCHANGED

Manufacturing production for the first quarter of 2000 remained at the same level as manufacturing production for the fourth quarter of 1999 after seasonal adjustment. However, manufacturing production for the first quarter of 2000 increased by 4,4% compared with the first quarter of 1999.

The manufacturing divisions which reflected relatively large increases for the first quarter of 2000, after seasonal adjustment, compared with the fourth quarter of 1999 were the fabricated metal products (+0,9 of a percentage point), followed by the basic iron and steel products (+0,8 of a percentage point) and motor

vehicle (+0,3 of a percentage point) divisions. However, the manufacturing divisions which reflected relatively large decreases, after seasonal adjustment, during the above-mentioned period were the beverage (-0,4 of a percentage point), other chemical products (-0,4 of a percentage point) and basic chemical products (-0,3 of a percentage point) divisions (cf. table A).

The total value of sales of manufactured products reflected an increase of 1,5% (R1 581 million) for the first quarter of 2000 after seasonal adjustment compared with the fourth quarter of 1999. The largest contributing increases were reported by the transport equipment (+35,5% or R236 million), basic iron and steel (+17,4% or R1 202 million) and the refined petroleum products (+4,6% or R282 million) divisions during this period.

Notes

Forthcoming issues Issue Expected release date

April 2000 6 June 2000

Purpose of the survey The monthly Manufacturing Production and Sales Survey is a country-wide sample survey covering a sample of private establishments, public corporations and government establishments operating in the manufacturing industry in the South African economy. The results of this survey are used to calculate physical volume of manufacturing production indices in order to estimate the gross domestic product (GDP) to monitor and develop Government policy.

Additional information

Explanatory notes

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.

Scope of the survey 4 This survey covers manufacturing 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 5 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 6 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 7 The calculation of the monthly production indices is based on the value of products and

design 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 survey is collected by mail each month from a sample of approximately 2 700 manufacturing establishments.

9 The above-mentioned measurement method in paragraph 7 was followed in 40 of the various major groups. On account of certain considerations more appropriate indicators were used for the four remaining major groups namely "other transport equipment"; tobacco products and coke and refined petroleum products and bodies for motor vehicles. The volume indices for the major groups tobacco products and coke and refined petroleum products are calculated on the basis of physical quantities. The major group tobacco products is included under 'Other' manufacturing industries. This method is also applied by other international statistical agencies for petroleum products due to the results being more satisfactory (mainly due to these commodities being relatively homogeneous and the nature of the industry). In the case of "other transport equipment" units such as ships and aircraft are completed over a 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 10 The 1988 Census of Manufacturing provided the sampling frame for the selection of the monthly sample regarding manufacturing production and sales which was implemented as from January 1995. A stratified systematic sample design based on gross output was used. All statistical units were stratified by type of economic activity according to the Standard Industrial Classification of all Economic Activities (SIC) and measure of size, where measure of size was the total manufacturing gross output of the establishment. All large establishments (size category one cases) are completely enumerated. A sample was drawn from medium and small size establishments by systematically selecting establishments with equal probability.

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

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

Production index for the 13 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 14 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.

Reliability of estimates 15 Estimates are subject to sampling and non-sampling errors. Figures for the latest month are

preliminary.

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. 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 Office of the Deputy President, the Department of Trade and Industry, the Department of Finance and the South African Reserve Bank receive a copy of the release on a strictly confidential basis two hours in advance of the public issue.

Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za.

Symbols and abbreviations 21 Stats SA Statistics South Africa

TBVC states Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states

SIC Standard Industrial Classification of all Economic Activities

ISIC International Standard Classification of all Economic Activities

SNA System of National Accounts

PPI Production Price Index

GDP Gross Domestic Product

1/ Preliminary figures

* Revised figures

Technical notes

Response rates See the response rates for March 2000, by manufacturing major divisions, in table B.

Table B - Response rates for March 2000

Manufacturing major divisions	% response
Food and food products	74,7
Beverages	87,1
Textile	88,9
Total wearing apparel	78,8
Tanning and dressing of leather	67,6
Footwear	59,1
Wood and products of wood	72,2
Paper and paper products	62,8
Total publishing and printing	58,0
Coke and refined petroleum products	64,7
Basic chemicals	71,3
Other chemical products	71,9
Rubber products	87,0
Plastic products	59,2
Glass and glass products	50,0
Other non-metallic mineral products	58,5
Basic iron and steel products	76,1
Basic precious and non-ferrous metal products	68,0
Fabricated metal products	77,5
Total machinery and equipment	69,3
Electrical machinery, apparatus	55,4
Radio, television and communication apparatus	48,0
Professional equipment	55,2
Motor vehicles; trailers; parts and accessories	72,0

Other transport equipment	63,9
Furniture	71,2
Other manufacturing industries	72,8
Total	70,9

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 of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).

Intercensal period Intercensal period is the period between January of the one census year and January of the next census year.

Intermediate consumption Intermediate consumption includes -

- purchases and transfers-in of materials;
- payments to other establishments for work done;
- other direct factory costs;
- rent and leasing paid;
- head office charges;
- royalties, copyright, trade names and patent rights paid;
- advertising;
- insurance premiums;
- services; and
- secretarial and administrative fees.

Output Output is the aggregate value of goods manufactured and work done.

Output includes -

- sales and transfers-out of own manufactures, factory waste and stocks of factored goods;
- repairs;
- installation, erection and assembly;
- sundry trading revenue;
- sales of factored goods minus purchases of factored goods;
- rent and leasing received;
- royalties received;
- closing value of work in progress, stocks of own manufactures and stocks of factored goods;
- head office charges; and
- other revenue.

Output excludes -

- excise and customs duty paid; and

- 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.

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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 Jan.2000 - Mar. 2000	Quarterly percentage change (Jan. 2000 - Mar. 2000 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	-1,2	-0,13
Beverages	4,6	92,5	-8,0	-0,37
Total textiles	2,9	95,2	-3,4	-0,10
Total Wearing apparel	3,6	86,2	-5,7	-0,21
Tanning and dressing of leather	0,4	126,2	-2,2	-0,01
Footwear	0,9	71,2	+4,2	+0,04
Wood and products of wood	1,9	120,2	+0,9	+0,02
Paper and paper products	5,3	103,0	+1,5	+0,08
Total publishing and printing	4,1	93,2	+0,4	+0,02
Coke and refined petroleum products	4,2	100,3	-4,9	-0,20
Basic chemicals	4,5	126,7	-6,1	-0,27
Other chemical products	6,2	101,5	-5,7	-0,35
Rubber products	1,4	98,6	+1,6	+0,02
Plastic products	3,1	88,3	-4,5	-0,14
Glass and glass products	1,0	81,0	-1,2	-0,01
Other non-metallic mineral products	3,5	90,8	+1,6	+0,06
Basic iron and steel products	7,6	118,3	+9,9	+0,75
Basic precious and non-ferrous metal products	3,2	156,2	-4,6	-0,15
Fabricated metal products	7,0	104,6	+12,5	+0,88
Total machinery and equipment	5,8	98,1	+1,4	+0,08
Electrical machinery, apparatus	3,4	100,7	+2,3	+0,08
Radio, television and communication apparatus	1,0	124,7	-4,2	-0,04
Professional equipment	0,5	78,7	-2,2	-0,01
Motor vehicles; trailers; parts and accessories	8,0	119,4	+3,1	+0,25
Other transport equipment	1,0	107,3	+0,8	+0,01
Furniture	1,6	107,0	+9,0	+0,14
Other manufacturing industries	2,6	107,7	-8,3	-0,21
TOTAL	100,0	104,7	-0,0	-0,00

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	1994	1995	1996	1997	1998	1999	2000
Actual indices							
J	72,7	80,6	83,6	89,8	89,6	86,7	88,8*
F	87,0	97,6	96,7	103,1	101,1	98,0	102,6
M	95,6	104,2	102,6	102,5	102,8	101,5	107,5 1/
A	82,8	91,0	96,4	105,5	96,3	94,8	
M	84,8	101,8	104,1	106,2	101,1	101,1	
J	92,4	102,4	102,9	104,9	104,5	100,5	
J	92,9	101,7	104,7	108,2	104,4	104,3	
A	94,0	106,0	107,8	105,8	100,0	103,5	
S	100,9	106,7	105,2	108,3	106,8	107,0	
O	104,2	112,5	115,8	119,1	111,8	112,9	
N	108,2	110,7	114,4	111,7	109,8	115,5	
D	85,3	84,8	83,7	86,9	85,3	90,6	
Year	91,7	100,0	101,5	104,3	101,1	101,4	
Seasonally adjusted indices							
J	87,5	96,5	99,1	105,6	104,9	100,8	102,8
F	88,3	99,3	98,7	105,4	103,1	100,1	104,8
M	91,1	99,9	99,6	100,5	101,3	100,4	106,5
A	88,7	97,2	101,8	110,5	100,5	98,4	
M	85,3	101,7	104,0	105,3	100,0	100,1	
J	91,4	101,3	101,5	103,3	103,0	99,3	
J	91,6	99,9	102,4	105,5	101,6	101,4	
A	90,9	102,6	104,7	103,1	97,7	101,3	
S	95,8	101,4	100,2	103,2	102,1	102,6	
O	94,0	101,2	103,1	105,9	99,7	100,7	
N	97,2	99,9	103,2	101,2	99,7	105,3	
D	98,1	98,2	98,9	102,5	101,1	108,2	

* 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 1999	Actual indices			Seasonally adjusted indices		
			March	February	1/ March	March	February	1/ March
			1999	2000		1999	2000	
Food and food products	10,7	99,2	88,1	86,8	88,2	95,4	96,2	97,2
Meat, fish, fruit etc.	2,8	112,4	116,6	117,5	113,4	109,2	106,0	107,4
Dairy products	1,4	92,8	91,5	84,1	88,7	89,1	89,7	86,3
Grain mill products	2,1	93,9	94,0	84,7	89,9	93,2	90,3	89,3
Other food products	4,4	95,3	65,9	69,0	71,0	89,6	94,7	97,7
Beverages	4,6	100,8	116,9	87,0	99,0	112,9	96,6	95,8
Total textiles	2,9	91,3	88,7	95,9	105,3	83,5	94,7	99,8
Textiles	1,7	83,8	79,7	89,9	100,6	77,1	88,0	97,6
Other textile products	1,2	101,9	101,4	104,5	112,0	92,5	104,2	102,8
Total Wearing apparel	3,6	88,3	98,9	90,5	97,0	89,6	88,1	87,9
Knitted, crocheted articles	0,6	82,5	88,2	87,5	88,9	79,6	83,6	80,5
Wearing apparel	3,0	89,5	101,0	91,1	98,6	91,6	89,0	89,4
Tanning and dressing of leather	0,4	122,9	127,7	131,2	128,2	122,6	126,5	123,2
Footwear	0,9	69,2	75,1	74,8	73,1	71,0	73,3	69,2
Wood and products of wood	1,9	114,1	122,2	120,6	129,6	115,7	120,3	122,0
Sawmilling and planing of wood	0,8	104,2	105,6	109,5	125,7	98,2	108,7	116,2
Products of wood	1,2	120,6	133,1	127,9	132,2	127,2	128,0	125,9
Paper and paper products	5,3	98,2	101,9	97,1	101,5	101,8	105,4	100,7
Total publishing and printing	4,1	93,1	97,6	92,6	91,3	95,6	97,6	89,6
Publishing	1,5	99,6	101,7	100,9	97,6	100,6	104,9	97,2
Printing, recorded media	2,6	89,5	95,3	88,0	87,8	92,8	93,4	85,2
Coke and refined petroleum products	4,2	106,4	107,2	100,8	91,0	114,9	100,8	97,9
Basic chemicals	4,5	126,9	107,9	118,3	130,3	111,6	112,2	134,6
Other chemical products	6,2	103,3	108,1	100,7	102,7	105,3	101,9	100,5
Rubber products	1,4	92,8	93,8	114,6	103,9	92,6	99,9	102,0
Plastic products	3,1	86,5	91,7	91,7	96,8	86,2	88,5	90,8
Glass and glass products	1,0	85,2	81,3	84,4	79,4	84,9	82,3	82,7
Other non-metallic mineral products	3,5	85,0	87,3	88,7	94,0	83,3	90,7	89,7
Basic iron and steel products	7,6	96,9	87,0	104,9	125,2	88,6	112,0	126,9
Basic precious and non-ferrous metal products	3,2	153,3	144,9	159,5	153,7	147,5	167,0	158,6
Fabricated metal products	7,0	99,1	105,3	101,1	103,7	102,6	101,1	100,9
Structural metal products	2,4	95,9	114,0	89,7	95,4	110,9	89,7	92,6
Other fabricated metal products	4,6	100,8	100,8	107,0	107,9	98,3	106,9	105,1
Total machinery and equipment	5,8	97,5	110,8	103,5	115,3	100,4	101,9	104,9
General purpose machinery	2,5	111,5	127,6	112,5	121,7	117,5	115,9	111,9
Special purpose machinery	2,9	84,4	98,5	94,0	108,2	86,2	86,8	95,0
Household appliances	0,4	105,3	94,7	115,4	127,4	97,0	123,8	133,2
Electrical machinery, apparatus	3,4	96,5	103,3	101,2	101,1	103,0	99,8	101,0
Radio, television and communication apparatus	1,0	126,9	125,6	120,5	121,2	114,1	121,3	113,3
Professional equipment	0,5	77,9	85,0	77,9	79,8	78,5	78,4	73,3
Motor vehicles; trailers; parts and accessories	8,0	102,5	97,7	125,4	133,5	94,0	124,5	128,0
Motor vehicles	4,5	97,0	90,2	118,9	130,0	87,1	118,1	124,8
Bodies for motor vehicles; trailers and semi-trailers	0,5	64,3	73,7	61,5	78,6	62,7	59,8	66,2
Parts and accessories	3,0	117,7	113,3	146,9	148,9	110,1	145,8	144,0
Other transport equipment	1,0	113,1	114,2	98,9	100,3	118,3	106,8	105,1
Furniture	1,6	102,6	97,5	100,3	99,0	99,4	100,8	100,7
Other manufacturing industries	2,6	107,7	105,4	108,0	111,6	105,6	109,8	111,7
TOTAL	100,0	101,4	101,5	102,6	107,5	100,4	104,8	106,5

* Revised
1/ Preliminary

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

Month	1994	1995	1996	1997	1998	1999	2000
Actual values							
J	16 267 098	19 206 220	21 803 249	25 254 480	25 913 926	26 372 386	28 565 637*
F	19 815 926	24 414 317	26 328 500	29 866 793	29 901 544	30 555 697	34 950 176
M	22 056 191	26 712 878	28 188 286	29 866 272	32 190 538	32 735 187	37 369 808 1/
A	19 132 660	22 897 368	26 231 967	30 438 604	29 758 879	30 458 581	
M	19 723 817	25 806 431	28 293 052	30 626 091	30 352 835	32 670 212	
J	22 055 323	26 204 689	28 261 416	30 575 542	31 723 893	33 040 649	
J	22 251 097	25 613 126	28 378 392	31 169 707	31 732 667	33 273 242	
A	21 957 670	27 064 919	29 568 761	31 400 042	30 810 619	33 730 745	
S	23 954 300	27 737 968	29 549 724	31 344 644	32 896 327	35 803 535*	
O	25 209 944	29 294 559	33 070 022	35 902 602	34 970 472	37 436 678*	
N	26 275 416	29 960 074	33 084 713	33 709 581	34 300 610	38 799 748*	
D	20 667 319	23 877 458	26 338 721	28 128 922	29 016 347	32 943 837*	
Year	259 366 761	308 790 007	339 096 803	368 283 280	373 568 657	397 820 497	
Seasonally adjusted values							
J	19 811 497	23 555 915	26 493 068	30 666 972	31 267 809	31 741 962	34 348 953
F	20 107 550	24 765 152	26 790 739	30 514 299	30 606 154	31 370 265	35 868 297
M	20 746 448	25 305 434	26 910 171	28 796 095	31 120 264	31 720 840	36 249 974
A	20 310 742	24 250 456	27 670 871	31 941 437	31 199 734	31 843 656	
M	20 149 970	26 144 256	28 449 542	30 731 184	30 452 433	32 836 383	
J	21 887 188	25 970 739	28 047 916	30 295 232	31 455 499	32 909 743	
J	22 143 333	25 483 534	28 265 944	30 957 646	31 497 411	32 963 354	
A	21 196 819	26 178 468	28 747 210	30 656 321	30 251 284	33 214 528	
S	22 732 946	26 459 836	28 226 630	29 996 827	31 514 747	34 428 641	
O	22 661 063	26 180 941	29 511 156	32 047 157	31 145 041	33 400 432	
N	23 527 416	26 858 988	29 749 931	30 354 424	30 891 940	35 050 232	
D	23 366 262	26 798 844	29 357 803	31 030 809	31 757 000	36 435 699	

* 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		
		March	February	March 1/	March	February	March
		1999	2000		1999	2000	
Food and food products	57 136 795	4 552 140	4 439 610	4 708 901	4 681 215	4 730 066	4 863 487
Meat, fish, fruit etc.	17 159 161	1 474 579	1 408 007	1 475 271	1 435 534	1 381 919	1 450 537
Dairy products	7 152 593	591 353	555 140	597 178	582 058	580 750	589 487
Grain mill products	14 862 901	1 216 954	1 164 381	1 249 004	1 202 407	1 255 007	1 235 007
Other food products	17 962 140	1 269 254	1 312 082	1 387 448	1 461 216	1 512 390	1 588 456
Beverages	20 653 051	1 894 541	1 537 598	1 773 747	1 836 373	1 818 217	1 708 571
Total textiles	9 770 815	795 258	863 837	937 906	746 253	869 543	883 198
Textiles	6 304 565	521 032	570 903	620 675	483 460	564 495	578 040
Other textile products	3 466 250	274 226	292 934	317 231	262 793	305 048	305 158
Total Wearing apparel	10 951 450	986 824	899 613	1 040 958	872 913	909 890	921 549
Knitted, crocheted articles	1 866 120	154 494	157 849	173 753	137 458	154 212	155 187
Wearing apparel	9 085 330	832 330	741 764	867 205	735 455	755 678	766 362
Tanning and dressing of leather	2 577 530	222 760	236 148	231 972	212 328	229 983	221 199
Footwear	2 393 993	228 498	208 037	212 054	207 992	204 846	192 058
Wood and products of wood	8 017 619	679 012	783 660	778 635	651 709	807 038	747 316
Sawmilling and planing of wood	2 011 857	147 815	226 666	243 781	144 876	233 570	238 240
Products of wood	6 005 762	531 197	556 994	534 854	506 833	573 468	509 076
Paper and paper products	20 400 594	1 803 125	1 756 638	1 940 064	1 686 936	1 870 561	1 802 726
Total publishing and printing	11 664 938	971 997	991 330	1 017 723	964 763	1 045 845	1 011 620
Publishing	4 471 082	376 122	394 561	385 826	374 027	416 789	385 639
Printing, recorded media	7 193 856	595 875	596 769	631 897	590 736	629 056	625 981
Coke and refined petroleum products	20 999 687	1 360 586	2 131 842	2 198 945	1 431 978	2 240 910	2 329 301
Basic chemicals	19 872 911	1 364 668	1 659 617	1 807 710	1 450 420	1 617 334	1 939 889
Other chemical products	25 485 403	2 256 475	2 117 132	2 259 325	2 145 185	2 197 136	2 165 908
Rubber products	4 167 229	362 027	415 711	388 525	355 814	396 058	381 480
Plastic products	9 692 461	825 580	844 402	921 946	789 756	851 059	879 476
Glass and glass products	2 140 820	168 650	170 160	155 782	178 940	170 518	164 976
Other non-metallic mineral products	9 257 203	796 616	774 831	856 436	763 448	802 911	819 043
Basic iron and steel products	25 867 790	2 217 533	2 566 852	2 932 459	2 143 678	2 650 760	2 814 867
Basic precious and non-ferrous metal products	13 107 160	1 007 348	1 110 555	1 230 771	1 010 304	1 172 529	1 242 343
Fabricated metal products	23 538 840	2 083 795	1 950 318	2 110 110	1 975 989	1 959 446	2 006 620
Structural metal products	8 375 921	783 922	587 002	676 131	742 704	634 921	648 489
Other fabricated metal product	15 162 919	1 299 873	1 363 316	1 433 979	1 233 285	1 324 525	1 358 131
Total machinery and equipment	18 482 182	1 600 756	1 548 651	1 812 143	1 398 632	1 564 874	1 603 431
General purpose machinery	8 715 989	693 912	638 362	799 457	645 203	684 617	750 623
Special purpose machinery	7 839 996	765 451	737 277	826 030	606 097	697 724	656 726
Household appliances	1 926 197	141 393	173 012	186 656	147 332	182 533	196 082
Electrical machinery, apparatus	11 835 715	1 006 414	1 037 921	1 039 546	1 003 816	1 021 013	1 037 178
Radio, television and communication apparatus	4 441 396	372 541	395 616	413 877	313 710	394 555	358 850
Professional equipment	1 299 945	112 944	112 793	108 920	104 350	110 731	100 574
Motor vehicles; trailers; parts and accessories	42 719 836	3 422 642	4 379 290	4 718 618	3 116 075	4 256 723	4 265 226
Motor vehicles	30 465 944	2 411 824	3 211 112	3 417 495	2 181 643	3 083 190	3 067 529
Bodies for motor vehicles; trailers and semi-trailers	1 529 083	156 452	133 525	153 289	140 361	143 528	136 899
Parts and accessories	10 724 809	854 366	1 034 653	1 147 834	794 071	1 030 005	1 060 798
Other transport equipment	2 789 057	269 065	266 744	382 912	243 362	252 265	338 787
Furniture	6 347 818	487 241	514 370	510 391	516 167	530 991	540 291
Other manufacturing industries	12 208 259	886 151	1 236 900	879 432	918 734	1 192 495	910 010
TOTAL	397 820 497	32 735 187	34 950 176	37 369 808	31 720 840	35 868 297	36 249 974

* Revised
1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	March	February	March 1/	March	February	March 1/
	1999	2000		1999	2000	
Spinning, weaving and finishing of textiles	208 351	236 894	256 957	206 596	233 839	254 886
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	21 492	34 671	32 540	18 000	31 466	27 320
Other textile articles	82 261	61 917	68 716	77 001	61 538	64 056
Knitted and crotcheted fabrics and articles	141 452	167 114	163 031	141 138	166 927	162 718
Wearing apparel	680 643	681 475	783 924	672 926	706 978	780 331
Sawmilling and preserving of timber	23 097	22 076	22 012	21 921	21 454	20 815
Veneer sheets, plywood, laminboard, etc.	19 820	25 636	22 940	21 234	26 982	24 753
Builders' carpentry and joinery	48 398	43 718	37 558	54 762	47 992	42 431
Pulp, paper and paperboard	204 477	371 396	263 297	232 057	397 112	299 434
Corrugated paper and paper- board and containers	386 466	391 435	387 376	390 850	376 767	391 448
Paints, varnishes and coatings	7 938	19 989	13 173	10 670	20 236	17 699
Basic iron and steel products	2 903 782	3 321 677	3 362 949	2 953 499	3 285 165	3 426 226
Steel pipe and tube mills	145 244	233 386	228 050	145 032	230 742	225 614
Basic precious and non- ferrous metal products	941 472	1 227 799	1 001 540	945 759	1 218 094	1 002 513
Metal structures, parts	1 545 465	1 045 650	1 069 065	1 521 898	1 093 632	1 050 771
Cutlery, hand tools and general hardware	31 813	31 773	28 548	31 148	30 985	28 020
Metal containers, e.g. cans and tins	48 370	76 547	81 477	47 474	72 271	80 634
Cables, wire products, springs	67 061	64 347	64 807	65 463	62 582	62 826
Metal fasteners	26 211	40 713	35 951	24 931	39 179	34 243
All other metal products	1 066 663	1 104 873	1 062 453	1 154 724	1 241 806	1 168 193
Domestic appliances	43 515	37 905	27 936	41 964	36 710	27 484
Electric motors, generators and transformers	495 672	451 272	461 745	470 744	473 963	436 752
Insulated wire and cables	201 945	213 650	211 315	187 665	204 760	196 664
Accumulators, primary cells and primary batteries	15 280	13 006	13 119	16 455	14 064	14 260
Television, radio and						

communication apparatus	690 324	718 250	952 568	714 027	748 110	989 679
Motor vehicles	1 925 102	1 864 085	2 511 633	1 701 663	1 914 397	2 233 549
Parts and accessories for						
motor vehicles	272 925	310 352	297 434	281 963	314 916	308 104
Furniture	172 358	233 177	234 567	196 845	275 014	269 111

* Revised
