

Manufacturing: production and sales

October 2001

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Stats SA publishes approximately three hundred different 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.

This data in this statistical release adheres to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data; access by the public; integrity; and quality of the disseminated data.

Key figures as at the end of October 2001

Actual estimates		October 2001	% change between October 2000 and October 2001	% change between August 2000 to October 2000 and August 2001 to October 2001	% change between January 2000 to October 2000 and January 2001 to October 2001
of	Physical volume				
	manufacturing production index (1995=100)	124,6	+6,5	+2,4	+3,2
sales	Total value of				
	of manufactured products (R million)	48 060,6	+15,1	+9,3	+11,7

Seasonally adjusted estimates		October 2001	% change between September 2001 and October 2001	% change between May 2001 to July 2001 and August 2001 to October 2001
	Physical volume of manufacturing production index (1995=100)	112,3	+4,2	+0,7
sales	Total value of			
	of manufactured products (R million)	43 498,1	+6,1	+0,7

Key findings as at the end of October 2001**MANUFACTURING PRODUCTION INCREASES**

Manufacturing production for the three months ended October 2001 reflected an increase of 0,7% after seasonal adjustment compared with the previous three months. Higher production was reported by 13 of the 27 manufacturing divisions. Furthermore, the total manufacturing production for October 2001 increased by 4,2% after seasonal adjustment compared with September 2001. To a large extent this can be attributed to higher production reported for October 2001 by the wood products, motor vehicle and rubber products manufacturing divisions following strike action in August and September 2001. The actual manufacturing production for the first ten months of 2001 reflected an increase of 3,2% compared with the first ten months of 2000.

The major contributor to the increase of 0,7% after seasonal adjustment in the total manufacturing production was the basic iron and steel products division (contributing +0,6 of a percentage point to total manufacturing production), followed by the beverages (+0,3 of a percentage point), coke and refined petroleum products (+0,3 of a percentage point), fabricated metal products (+0,3 of a percentage point) and machinery and equipment (+0,3 of a percentage point) divisions (cf. table A).

SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products at current prices for the three months ended October 2001 reflected an increase of 0,7% (+R 860 million) after seasonal adjustment compared with the previous three months. Higher manufacturing sales were reported by 14 of the 27 manufacturing divisions during this period. Furthermore, the actual total value of sales of manufactured products at current prices for the three months ended October 2001 reflected an increase of 9,3% (+R11 185 million) compared with three months ended October 2000. Higher manufacturing sales were reported by 23 of the 27 manufacturing divisions during the latter period. The actual total value of sales of manufactured products at current prices for the first ten months of 2001 reflected an increase of 11,7% compared with the first ten months of 2000.

The increase of 0,7% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended October 2001 compared with the previous three months was mainly due to large increases reported by the basic iron and steel products (+9,9% or +R832 million), machinery and equipment (+4,3% or +R231 million), fabricated metal products (+4,1% or +R282 million), beverages (+4,1% or +R236 million) and food and food products (+4,0% or +R652 million) divisions.

The major contributors to the increase of 9,3% in the actual value of sales of manufactured products at current prices for the three months ended October 2001 compared with the three months ended October 2000 were the food and food products (+1,8 percentage points or R2 149 million), motor vehicles, trailers, parts and accessories (+1,3 percentage points or +R1 600 million), basic iron and steel products (+0,8 of a percentage point or +R1 021 million), fabricated metal products (+0,8 of a percentage point or +R966 million), beverages (+0,8 of a percentage point or +R939 million) and 'other' chemical products (+0,6 of a percentage point or +R734 million) divisions.

Contents

	Page
Notes	5
Tables	
Table 1 Indices of the physical volume of manufacturing production: Total	6
Table 2 Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups	7
Table 3 Value of sales of the manufacturing industry: Total (R'000)	8
Table 4 Value of sales of manufactured products according to manufacturing divisions and major groups (R'000)	9
Table 5 Value of unfilled orders according to selected manufacturing subgroups (R'000)	10
Additional information	
Explanatory notes	11
Technical notes	15
Glossary	16
For more information	18

Notes

Forthcoming issues	Issue	Expected release date
	November 2001	8 January 2002
	December 2001	12 February 2002
	January 2002	12 March 2002
	February 2002	9 April 2002
	March 2002	7 May 2002
	April 2002	11 June 2002
	May 2002	9 July 2002
	June 2002	6 August 2002
	July 2002	10 September 2002
	August 2002	8 October 2002
	September 2002	12 November 2002
	October 2002	10 December 2002
	November 2002	7 January 2003
	December 2002	11 February 2003

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 (October) have been estimated due to late response. These estimates will be revised in the future statistical release(s) as soon as more up-to-date information is available.
- Scope of the survey**
- 4 This survey covers manufacturing establishments conducting activities regarding -
 - the manufacturing, 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 design**
- 7 The calculation of the monthly production indices is based on the value of products and articles manufactured, after the effect of price changes has been eliminated through deflation by using appropriate sub-indices of the Production Price Index (PPI). The value of the manufactured products is obtained from a monthly sample survey of manufacturing establishments in the private and public sectors.
 - 8 The survey is collected by mail each month from a sample of approximately 2 500 manufacturing establishments.

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

Sample design

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

Benchmarking

- 11 The index of physical volume of manufacturing production as well as the total value of sales of manufactured products should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities as measured by the monthly Manufacturing Production and Sales sample survey is based on information received from a sample of manufacturing establishments which is weighted according to the original sample design in order to represent the population of manufacturing establishments. It is necessary to adjust the level of activities as measured by the monthly sample survey to the level of activities as measured periodically by the Census of Manufacturing. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking. The results, due to benchmarking, were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.
- 12 The results of the 1991, 1993 and 1996 Censuses of Manufacturing and information obtained from the former TBVC states were used to adjust the level of the manufacturing production indices and the value of sales of manufactured products. The total value of output of the manufacturing major groups (which represents the total value of work done by the establishments in these major groups) as obtained from the manufacturing censuses, was deflated with appropriate sub-indices of the Production Price Index in order to calculate the real output. The latter served as benchmarks to verify or adjust the level of the monthly physical volume of manufacturing production indices. The level adjustments were done on the volume indices for January of the relevant census year (e.g. the 1996 census year covers the period 1 July 1995 to 30 June 1996 and therefore the benchmarking was done using the index of January 1996 as reference point). The motor vehicle major group is the only exception where the financial year for most of the establishments covered the period 1 January 1995 to 31 December 1995. The benchmarking was done using the physical volume of manufacturing production index for July 1995 as reference point.

Production index for the total manufacturing industry	13	<p>In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined as follows:</p> <p>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.</p>
Seasonal adjustment	14	<p>Seasonally adjusted estimates of all items are generated each month, using the X-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.</p>
Trend cycle	15	<p>The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.</p>
Reliability of estimates	16	<p>Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.</p>
Historical data	17	<p>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.</p>
Related publications	18	<p>Users may also wish to refer to the following publications which are available from Stats SA -</p> <ul style="list-style-type: none"> • 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. • P0441 - Gross Domestic Product.

Unpublished statistics **19** 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 **20** 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 **21** 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.

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

Symbols and abbreviations

GDP	Gross Domestic Product
ISIC	International Standard Classification of all Economic Activities
PPI	Production Price Index
SIC	Standard Industrial Classification of all Economic Activities
SNA	System of National Accounts
Stats SA	Statistics South Africa
TBVC states	Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states
1/	Preliminary figures
*	Revised figures

Technical notes

Response rates The response rate for the survey on manufacturing production and sales for October 2001 is 82,1%. The response rates by manufacturing major division are tabulated in table B.

Table B - Response rates for October 2001

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	318	80,5
Beverages	67	86,6
Textile	112	92,0
Total wearing apparel	136	88,2
Tanning and dressing of leather	26	76,9
Footwear	21	90,5
Wood and products of wood	121	76,9
Paper and paper products	93	81,7
Total publishing and printing	89	75,3
Coke and refined petroleum products	30	83,3
Basic chemicals	78	88,5
Other chemical products	111	83,8
Rubber products	23	82,6
Plastic products	86	75,6
Glass and glass products	14	85,7
Other non-metallic mineral products	143	78,3
Basic iron and steel products	42	88,1
Basic precious and non-ferrous metal products	24	87,5
Fabricated metal products	235	79,1
Total machinery and equipment	184	80,4
Electrical machinery, apparatus	79	83,5
Radio, television and communication apparatus	23	87,0
Professional equipment	27	88,9
Motor vehicles; trailers; parts and accessories	122	80,3
Other transport equipment	38	84,2
Furniture	66	92,4
Other manufacturing industries	83	77,1
Total	2391	82,1

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 of manufacturing production	The index of physical volume of manufacturing production or a production index is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 1995. The production in the base period is set at 100.
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 - <ul style="list-style-type: none">• 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 - <ul style="list-style-type: none">• 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;• difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods;• head office charges; and• other revenue. Output excludes – <ul style="list-style-type: none">• excise and customs duty paid.
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.

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 August 2001 to October 2001	Quarterly percentage change (August 2001 to October 2001 compared with the preceding three months)	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and food products	10,7	104,7	+1,0	+0,1
Beverages	4,6	100,5	+6,5	+0,3
Total textiles	2,9	93,3	-2,7	-0,1
Total wearing apparel	3,6	78,7	-1,3	-0,1
Tanning and dressing of leather	0,4	93,9	-22,3	-0,1
Footwear	0,9	49,6	-9,5	-0,1
Wood and products of wood	1,9	119,2	-0,4	-0,0
Paper and paper products	5,3	99,9	-3,0	-0,2
Total publishing and printing	4,1	84,3	+0,8	+0,0
Coke and refined petroleum products	4,2	102,1	+5,9	+0,3
Basic chemicals	4,5	135,4	-7,1	-0,3
Other chemical products	6,2	105,2	+2,0	+0,1
Rubber products	1,4	102,0	-1,8	-0,0
Plastic products	3,1	94,1	-2,9	-0,1
Glass and glass products	1,0	102,8	+3,7	+0,0
Other non-metallic mineral products	3,5	93,8	+1,2	+0,0
Basic iron and steel products	7,6	117,2	+8,1	+0,6
Basic precious and non-ferrous metal products	3,2	164,3	-2,9	-0,1
Fabricated metal products	7,0	116,7	+4,0	+0,3
Total machinery and equipment	5,8	111,8	+5,9	+0,3
Electrical machinery, apparatus	3,4	100,2	-2,1	-0,1
Radio, television and communication apparatus	1,0	104,8	+4,4	+0,1
Professional equipment	0,5	90,5	+9,4	+0,1
Motor vehicles; trailers; parts and accessories	8,0	137,6	-1,9	-0,2
Other transport equipment	1,0	116,0	+3,5	+0,0
Furniture	1,6	92,5	-6,8	-0,1
Other manufacturing divisions	2,6	110,6	-0,6	-0,0
Total	100,0	109,0	+0,7	+0,7

1/ The contribution is calculated by multiplying the quarterly percentage change of each manufacturing division with its corresponding weight in the base year, divided by 100.

Table 1 - Indices of the physical volume of manufacturing production: Total

Base 1995 = 100							
Month	1995	1996	1997	1998	1999	2000	2001*
Actual indices							
J	80,4	83,6	89,8	89,6	86,7	88,8	94,7
F	97,4	96,7	103,1	101,1	98,0	103,2	105,9
M	104,0	102,6	102,5	102,7	101,4	109,0	111,8
A	91,3	96,4	105,5	96,3	94,8	93,2	100,7
M	101,0	104,1	106,2	101,1	101,1	106,5	108,5
J	102,1	102,9	104,9	104,5	100,5	110,4	113,6
J	101,6	104,7	108,2	104,4	104,3	107,2	108,9
A	105,6	107,8	105,8	99,9	103,5	108,5	108,6
S	106,8	105,2	108,2	106,8	107,0	112,4	112,7
O	112,6	115,8	119,1	111,7	112,9	117,0	124,6 1/
N	110,9	114,4	111,7	109,8	115,5	120,7	
D	86,2	83,7	86,9	85,3	90,5	94,7	
Year	100,0	101,5	104,3	101,1	101,4	106,0	
Seasonally adjusted indices							
J	96,1	99,0	105,5	104,7	100,5	102,1	108,9
F	99,1	98,6	105,1	102,9	99,7	104,9	107,5
M	99,9	99,5	100,3	100,8	99,5	106,9	109,7
A	97,5	102,1	111,2	101,6	100,2	99,2	107,4
M	101,1	103,9	105,4	100,1	100,4	105,7	107,8
J	100,9	101,6	103,2	102,6	98,4	107,5	110,4
J	99,8	102,5	105,7	102,0	102,1	105,0	106,7
A	102,5	104,6	103,1	97,9	101,7	106,8	107,0
S	101,6	100,2	103,1	102,0	102,3	107,5	107,8
O	101,4	103,2	106,2	100,2	101,3	105,3	112,3
N	100,0	103,1	100,9	99,2	104,5	109,3	
D	99,3	98,8	102,2	100,3	106,9	111,7	

* 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 2000	Actual indices			Seasonally adjusted indices		
			October	September	October 1/	October	September	October
			2000	2001		2000	2001	
Food and food products	10,7	99,2	106,3	112,4	110,7	98,5	106,4	102,9
Meat, fish, fruit etc.	2,8	111,7	118,7	119,4	131,1	112,1	123,3	124,0
Dairy products	1,4	89,4	96,3	90,7	94,4	90,2	88,6	88,7
Grain mill products	2,1	91,3	93,5	108,3	113,5	86,4	112,9	105,3
Other food products	4,4	98,0	107,6	116,5	101,2	98,0	98,1	92,5
Beverages	4,6	92,6	95,8	104,9	110,2	87,4	101,9	100,7
Total textiles	2,9	93,5	100,8	98,4	108,8	86,4	91,5	93,5
Textiles	1,7	84,6	88,6	89,5	96,9	76,2	82,6	83,6
Other textile products	1,2	106,2	118,1	111,1	125,7	100,9	104,2	107,5
Total wearing apparel	3,6	82,8	93,2	86,4	96,8	74,5	77,5	77,5
Knitted, crocheted articles	0,6	73,9	80,6	75,3	86,1	70,5	74,4	75,3
Wearing apparel	3,0	84,5	95,7	88,6	99,0	75,3	78,2	77,9
Tanning and dressing of leather	0,4	125,2	139,4	91,8	109,0	119,6	96,4	94,0
Footwear	0,9	65,6	76,3	57,2	57,4	61,6	50,2	46,5
Wood and products of wood	1,9	119,3	133,4	124,3	140,2	117,7	118,9	123,7
Sawmilling and planing of wood	0,8	104,8	118,8	108,7	113,3	104,6	100,6	99,7
Products of wood	1,2	128,8	142,9	134,5	157,9	126,2	130,9	139,4
Paper and paper products	5,3	105,3	115,0	103,6	106,6	109,3	98,8	101,7
Total publishing and printing	4,1	87,8	94,2	90,5	92,0	84,8	86,7	83,2
Publishing	1,5	97,8	101,6	104,1	105,9	94,7	101,4	98,5
Printing, recorded media	2,6	82,3	90,0	82,8	84,2	79,2	78,4	74,6
Coke and refined petroleum products	4,2	104,5	109,6	95,4	108,7	108,6	100,3	107,6
Basic chemicals	4,5	134,9	165,1	118,9	167,0	142,5	125,0	144,3
Other chemical products	6,2	101,8	111,5	112,0	121,7	96,2	104,6	105,2
Rubber products	1,4	98,7	110,9	78,0	133,1	105,4	73,4	125,9
Plastic products	3,1	89,7	98,7	101,7	103,8	86,8	96,0	91,7
Glass and glass products	1,0	88,5	97,4	105,8	121,2	89,5	102,4	111,7
Other non-metallic mineral products	3,5	90,0	97,3	95,5	106,3	88,4	90,7	96,6
Basic iron and steel products	7,6	116,3	125,0	121,1	130,8	115,3	119,6	120,1
Basic precious and non-ferrous metal products	3,2	163,4	178,1	173,3	165,4	171,9	164,3	160,0
Fabricated metal products	7,0	103,4	111,4	121,4	128,0	104,1	115,4	120,6
Structural metal products	2,4	90,5	99,2	119,6	112,3	95,9	112,8	110,2
Other fabricated metal products	4,6	110,0	117,7	122,3	136,0	108,3	116,8	125,9
Total machinery and equipment	5,8	99,6	102,4	113,2	120,7	95,2	105,5	111,8
General purpose machinery	2,5	110,6	118,6	124,3	117,0	115,6	110,8	113,5
Special purpose machinery	2,9	87,8	85,1	102,6	120,8	76,3	100,6	109,2
Household appliances	0,4	116,9	126,5	120,6	143,8	104,2	107,2	119,6
Electrical machinery, apparatus	3,4	102,1	118,7	106,6	116,1	103,8	100,3	100,6
Radio, television and communication apparatus	1,0	123,7	115,8	104,1	119,0	110,0	95,1	112,9
Professional equipment	0,5	80,9	79,7	90,8	95,4	78,2	89,8	93,5
Motor vehicles; trailers; parts and accessories	8,0	125,4	148,7	145,8	182,8	127,9	139,1	158,0
Motor vehicles	4,5	114,9	137,6	125,2	183,0	118,2	119,0	158,1
Bodies for motor vehicles; trailers and semi-trailers	0,5	63,3	52,2	59,0	56,3	52,2	56,9	56,0
Parts and accessories	3,0	152,4	183,0	192,5	205,7	156,3	184,3	176,6
Other transport equipment	1,0	115,0	118,0	113,5	119,5	116,6	117,1	118,5
Furniture	1,6	98,9	129,1	101,0	121,5	99,6	86,6	93,7
Other manufacturing divisions	2,6	111,5	135,5	119,3	144,3	107,7	108,1	115,5
Total	100,0	106,0	117,0	112,7	124,6	105,3	107,8	112,3

* Revised

1/ Preliminary

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

Month	1995	1996	1997	1998	1999	2000	2001*
Actual values							
J	19 206 220	21 803 249	25 254 480	25 913 926	26 410 458	28 615 702	33 979 418
F	24 414 317	26 328 500	29 866 793	29 901 544	30 607 558	35 182 383	39 164 039
M	26 712 878	28 188 286	29 866 272	32 190 538	32 788 344	38 036 042	42 613 923
A	22 897 368	26 231 967	30 438 604	29 758 879	30 508 382	32 686 461	37 491 783
M	25 806 431	28 293 052	30 626 091	30 352 835	32 737 449	37 013 710	41 126 549
J	26 204 689	28 261 416	30 575 542	31 723 893	33 126 289	38 672 176	42 690 231
J	25 613 126	28 378 392	31 169 707	31 732 667	33 429 319	36 226 449	41 096 338
A	27 064 919	29 568 761	31 400 042	30 810 619	33 740 922	38 964 771	41 270 328
S	27 737 968	29 549 724	31 344 644	32 896 327	35 884 855	39 921 270	42 499 433
O	29 294 559	33 070 022	35 902 602	34 970 472	37 448 797	41 758 876	48 060 551 1/
N	29 960 074	33 084 713	33 709 581	34 300 610	38 909 651	43 865 570	
D	23 877 458	26 338 721	28 128 922	29 016 347	33 048 575	37 216 505	
Year	308 790 007	339 096 803	368 283 280	373 568 657	398 640 599	448 159 915	
Seasonally adjusted values							
J	23 518 029	26 405 426	30 512 553	31 069 981	31 510 248	34 000 574	40 084 902
F	24 779 230	26 808 373	30 512 400	30 639 982	31 478 720	36 188 594	40 406 759
M	25 292 538	26 885 330	28 709 000	30 961 694	31 543 071	36 404 125	40 754 668
A	24 290 617	27 745 205	32 143 756	31 551 008	32 470 454	34 952 028	40 250 375
M	26 140 811	28 445 307	30 722 821	30 418 501	32 839 759	37 061 635	41 169 259
J	25 969 873	28 028 679	30 208 326	31 252 652	32 572 121	37 779 683	41 628 285
J	25 541 356	28 375 774	31 167 942	31 852 427	33 613 988	36 526 138	41 533 951
A	26 214 855	28 805 960	30 734 828	30 325 262	33 285 737	38 443 833	40 694 263
S	26 521 575	28 333 141	30 110 321	31 676 868	34 608 726	38 425 573	40 999 019
O	26 218 046	29 564 975	32 137 682	31 288 196	33 595 661	37 673 455	43 498 122
N	26 869 031	29 752 639	30 340 996	30 850 284	35 040 646	39 686 231	
D	26 774 972	29 260 860	30 831 403	31 392 489	35 913 649	40 389 772	

* 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				
		October	September	October 1/	October	September	October		
		2000		2001		2000		2001	
		2000	2001	2001	2000	2001	2001	2001	
Food and food products	59 680 480	5 337 412	5 639 441	6 184 976	4 852 380	5 761 657	5 655 831		
Meat, fish, fruit etc.	17 696 951	1 570 884	1 782 279	1 922 657	1 448 227	1 807 540	1 773 895		
Dairy products	7 246 522	663 215	644 780	701 831	615 183	632 843	651 528		
Grain mill products	15 373 318	1 373 431	1 520 880	1 640 345	1 269 745	1 595 656	1 522 191		
Other food products	19 363 689	1 729 882	1 691 502	1 920 143	1 519 225	1 725 618	1 708 217		
Beverages	20 378 659	1 742 052	2 087 004	2 107 112	1 660 062	2 048 857	2 013 134		
Total textiles	10 164 459	894 888	955 267	1 050 678	784 222	903 215	922 889		
Textiles	6 440 583	562 511	613 128	652 252	504 058	575 248	587 025		
Other textile products	3 723 876	332 377	342 139	398 426	280 164	327 967	335 864		
Total wearing apparel	10 523 645	1 014 350	983 165	1 123 249	809 590	864 905	904 923		
Knitted, crocheted articles	1 693 563	144 308	156 501	174 140	133 248	152 608	161 118		
Wearing apparel	8 830 082	870 042	826 664	949 109	676 342	712 297	743 805		
Tanning and dressing of leather	2 666 786	248 925	199 969	235 458	209 760	200 529	199 293		
Footwear	2 238 178	231 370	178 489	193 753	178 984	151 155	150 250		
Wood and products of wood	9 073 197	840 892	876 618	1 000 357	743 296	821 837	885 984		
Sawmilling and planing of wood	2 589 363	252 687	238 763	279 992	222 373	219 211	246 027		
Products of wood	6 483 834	588 205	637 855	720 365	520 923	602 626	639 957		
Paper and paper products	23 303 136	2 080 263	2 259 648	2 223 019	2 045 127	2 084 373	2 183 304		
Total publishing and printing	11 678 548	1 082 693	1 089 445	1 191 684	965 091	1 053 376	1 060 610		
Publishing	4 668 251	427 526	455 033	481 355	395 118	438 754	442 975		
Printing, recorded media	7 010 297	655 167	634 412	710 329	569 973	614 622	617 635		
Coke and refined petroleum products	31 823 682	3 364 454	2 947 453	3 447 680	3 046 761	2 973 580	3 107 398		
Basic chemicals	21 571 212	2 239 274	1 947 491	2 571 892	1 918 041	1 909 632	2 189 475		
Other chemical products	26 327 958	2 491 073	2 514 739	2 904 431	2 142 490	2 382 235	2 512 769		
Rubber products	4 645 737	459 909	354 831	491 140	417 480	334 124	444 270		
Plastic products	10 863 175	1 033 364	1 059 656	1 178 433	876 740	999 270	1 001 107		
Glass and glass products	2 280 493	253 704	256 773	301 822	203 266	235 800	239 790		
Other non-metallic mineral products	10 249 683	971 107	980 894	1 114 807	870 867	910 608	998 048		
Basic iron and steel products	33 529 317	2 976 621	3 035 302	3 340 068	2 810 818	3 013 921	3 163 194		
Basic precious and non-ferrous metal products	15 542 665	1 450 549	1 525 368	1 426 777	1 370 752	1 415 351	1 349 576		
Fabricated metal products	24 753 734	2 230 195	2 423 988	2 653 939	2 053 021	2 307 116	2 457 591		
Structural metal products	7 818 495	714 754	796 098	806 169	666 030	779 932	757 725		
Other fabricated metal product	16 935 239	1 515 441	1 627 890	1 847 770	1 386 991	1 527 184	1 699 865		
Total machinery and equipment	19 664 968	1 789 135	1 806 159	2 189 757	1 658 343	1 596 311	2 042 967		
General purpose machinery	8 821 849	776 463	809 827	820 133	747 966	661 502	798 634		
Special purpose machinery	8 658 911	803 774	788 168	1 124 667	742 133	748 488	1 044 946		
Household appliances	2 184 208	208 898	208 164	244 957	168 244	186 321	199 387		
Electrical machinery, apparatus	13 182 516	1 264 555	1 230 515	1 237 281	1 150 273	1 135 371	1 119 876		
Radio, television and communication apparatus	4 639 808	298 730	336 463	352 978	289 725	325 437	343 331		
Professional equipment	1 388 382	121 175	132 678	145 966	117 828	130 430	142 185		
Motor vehicles; trailers; parts and accessories	53 962 953	5 024 362	5 639 149	7 002 506	4 512 810	5 440 108	6 346 133		
Motor vehicles	37 436 200	3 463 275	3 926 743	5 168 763	3 169 524	3 806 689	4 761 572		
Bodies for motor vehicles; trailers and semi-trailers	1 670 903	134 140	144 036	134 475	127 596	135 346	130 299		
Parts and accessories	14 855 850	1 426 947	1 568 370	1 699 268	1 215 690	1 498 072	1 454 262		
Other transport equipment	3 247 376	298 436	273 500	285 730	276 850	281 109	266 966		
Furniture	6 253 537	702 961	545 760	662 925	513 251	492 717	484 190		
Other manufacturing divisions	14 525 631	1 316 427	1 219 668	1 442 133	1 195 626	1 225 996	1 313 039		
Total	448 159 915	41 758 876	42 499 433	48 060 551	37 673 455	40 999 019	43 498 122		

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	October	September	October 1/	October	September	October
	2000	2001		2000	2001	
Spinning, weaving and finishing of textiles	197 831	213 167	229 579	189 426	214 359	219 379
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	27 980	35 380	40 518	25 905	34 347	37 265
Other textile articles	73 715	73 396	86 777	65 826	69 676	76 878
Knitted and crocheted fabrics and articles	140 420	105 610	112 425	124 286	98 153	99 317
Wearing apparel	722 184	766 847	785 134	640 223	694 356	694 999
Sawmilling and preserving of timber	28 503	23 367	16 582	27 781	22 946	16 115
Veneer sheets, plywood, laminboard, etc.	23 810	24 745	26 225	22 971	25 678	25 624
Builders' carpentry and joinery	53 676	38 255	46 141	45 443	38 504	39 016
Pulp, paper and paperboard	596 529	289 951	407 266	526 864	308 990	357 396
Corrugated paper and paperboard and containers	415 971	330 865	326 629	376 003	325 754	295 954
Paints, varnishes and coatings	24 230	25 023	24 609	17 655	20 206	17 876
Basic iron and steel products	3 082 748	3 621 772	3 593 415	3 033 337	3 616 413	3 538 585
Steel pipe and tube mills	198 681	163 898	161 348	176 012	163 494	143 173
Basic precious and non-ferrous metal products	1 261 321	1 798 841	1 901 095	1 204 219	1 837 851	1 821 142
Metal structures, parts	1 243 743	1 582 689	1 549 808	1 228 182	1 580 492	1 529 862
Cutlery, hand tools and general hardware	28 347	19 924	18 696	26 628	19 076	17 525
Metal containers, e.g. cans and tins	75 742	78 404	71 209	79 906	79 742	76 062
Cables, wire products, springs	65 948	62 051	69 375	62 568	61 064	65 698
Metal fasteners	57 788	69 445	90 787	55 525	69 661	86 934
All other metal products	557 273	628 133	616 750	543 768	617 468	604 171
Domestic appliances	34 733	33 412	34 044	35 058	31 664	33 859
Electric motors, generators and transformers	462 282	359 200	353 924	449 592	347 488	343 582
Insulated wire and cables	336 487	311 095	310 428	324 832	308 131	299 234
Accumulators, primary cells and primary batteries	12 703	11 405	11 930	12 696	12 083	11 940
Television, radio and communication apparatus	1 109 539	2 010 098	1 907 859	1 110 622	2 001 701	1 920 959
Motor vehicles	2 164 940	2 503 208	2 546 670	2 204 784	2 486 753	2 578 271
Parts and accessories for motor vehicles	280 585	272 701	460 953	307 733	277 814	506 438
Furniture	420 458	391 245	368 702	305 604	285 249	266 986

* Revised

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