

Manufacturing: production and sales

August 2001

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Key figures as at the end of August 2001

Actual estimates		August 2001	% change between August 2000 and August 2001	% change between June 2000 to August 2000 and June 2001 to August 2001	% change between January 2000 to August 2000 and January 2001 to August 2001
of	Physical volume				
	manufacturing production index (1995=100)	109,2	+0,6	+1,7	+3,2
sales	Total value of				
	of manufactured products (R million)	41 238,5	+5,9	+9,7	+11,8

Seasonally adjusted estimates		August 2001	% change between July 2001 and August 2001	% change between March 2001 to May 2001 and June 2001 to August 2001
	Physical volume of manufacturing production index (1995=100)	107,3	+0,5	-0,1
sales	Total value of			
	of manufactured products (R million)	40 725,3	-1,5	+1,4

Key findings as at the end of August 2001**MANUFACTURING PRODUCTION DECREASES SLIGHTLY**

Manufacturing production for the three months ended August 2001 reflected a slight decrease of 0,1% after seasonal adjustment compared with the previous three months. Lower production was reported by 18 of the 27 manufacturing divisions. The decrease can partially be attributed to strike action reported during August 2001 by the wood and products of wood and motor vehicle manufacturers. However, the actual manufacturing production for the first eight months of 2001 reflected an increase of 3,2% compared with the first eight months of 2000.

The major contributor to the decrease of 0,1% after seasonal adjustment in the total manufacturing production was the food and food products division (contributing -0,3 of a percentage point to total manufacturing production), followed by the paper and paper products (-0,2 of a percentage point), coke and refined petroleum products (-0,2 of a percentage point), basic precious and non-ferrous metal products (-0,2 of a percentage point) and motor vehicles, trailers, parts and accessories (-0,2 of a percentage point) divisions. However, these decreases were partially counteracted by large increases reported by the fabricated metal products division (contributing +0,6 of a percentage point

to the total manufacturing production), followed by the total machinery and equipment (+0,4 of a percentage point) and 'other' non-metallic mineral products (+0,2 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 August 2001 reflected an increase of 1,4% (+R1 690 million) after seasonal adjustment compared with the previous three months. Higher manufacturing sales were reported by 19 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 August 2001 reflected an increase of 9,7% (+R11 003 million) compared with three months ended August 2000. Higher manufacturing sales were reported by 25 of the 27 manufacturing divisions during the latter period. The actual total value of sales of manufactured products at current prices for the first eight months of 2001 reflected an increase of 11,8% compared with the first eight months of 2000.

The increase of 1,4% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended August 2001 compared with the previous three months was mainly due to large increases reported by the total machinery and equipment (+7,9% or +R418 million), fabricated metal products (+7,7% or +R503 million), basic chemicals (+5,5% or +R329 million), basic iron and steel products (+3,1% or +R260 million) and 'other' chemical products (+2,7% or +R192 million) divisions.

The major contributors to the increase of 9,7% in the actual value of sales of manufactured products at current prices for the three months ended August 2001 compared with the three months ended August 2000 were the food and food products (+1,4 percentage points or R1 617 million), motor vehicles, trailers, parts and accessories (+1,4 percentage points or +R1 550 million), coke and refined petroleum products (+1,1 percentage points or +R1 196 million), total machinery and equipment (+0,8 of a percentage point or +R860 million), basic chemicals (+0,7 of a percentage point or +R824 million), fabricated metal products (+0,7 of a percentage point or +R758 million), and 'other' chemical products (+0,6 of a percentage point or +R705 million) divisions.

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Notes

Forthcoming issues	Issue	Expected release date
	September 2001	6 November 2001
	October 2001	11 December 2001
	November 2001	8 January 2002
	December 2001	12 February 2002

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 (August) 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 August 2001 is 79,5%. The response rates by manufacturing major division are tabulated in table B.

Table B - Response rates for August 2001

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	322	81,7
Beverages	67	86,6
Textile	114	86,0
Total wearing apparel	140	83,6
Tanning and dressing of leather	26	73,1
Footwear	21	85,7
Wood and products of wood	123	72,4
Paper and paper products	93	86,0
Total publishing and printing	89	74,2
Coke and refined petroleum products	30	86,7
Basic chemicals	78	83,3
Other chemical products	111	90,1
Rubber products	23	82,6
Plastic products	88	75,0
Glass and glass products	14	85,7
Other non-metallic mineral products	145	75,2
Basic iron and steel products	42	85,7
Basic precious and non-ferrous metal products	24	75,0
Fabricated metal products	237	74,7
Total machinery and equipment	184	79,3
Electrical machinery, apparatus	79	75,9
Radio, television and communication apparatus	24	79,2
Professional equipment	27	70,4
Motor vehicles; trailers; parts and accessories	126	77,8
Other transport equipment	38	73,7
Furniture	71	73,2
Other manufacturing industries	83	78,3
Total	2419	79,5

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.

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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 June 2001 to August 2001	Quarterly percentage change (June 2001 to August 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	-2,5	-0,3
Beverages	4,6	93,5	-1,1	-0,1
Total textiles	2,9	95,9	-0,8	-0,0
Total wearing apparel	3,6	80,4	+2,9	+0,1
Tanning and dressing of leather	0,4	115,2	-8,4	-0,1
Footwear	0,9	54,2	-2,3	-0,0
Wood and products of wood	1,9	117,8	-0,3	-0,1
Paper and paper products	5,3	101,3	-4,1	-0,2
Total publishing and printing	4,1	82,5	-1,1	-0,1
Coke and refined petroleum products	4,2	97,5	-5,3	-0,2
Basic chemicals	4,5	143,8	+2,2	+0,1
Other chemical products	6,2	104,0	-0,4	-0,0
Rubber products	1,4	104,7	+6,7	+0,1
Plastic products	3,1	94,5	-3,9	-0,1
Glass and glass products	1,0	97,0	-1,1	-0,0
Other non-metallic mineral products	3,5	93,7	+7,0	+0,2
Basic iron and steel products	7,6	109,1	+1,0	+0,1
Basic precious and non-ferrous metal products	3,2	165,0	-7,0	-0,2
Fabricated metal products	7,0	113,6	+8,4	+0,6
Total machinery and equipment	5,8	113,5	+7,3	+0,4
Electrical machinery, apparatus	3,4	102,2	-3,0	-0,1
Radio, television and communication apparatus	1,0	105,2	-2,0	-0,0
Professional equipment	0,5	84,0	-2,3	-0,0
Motor vehicles; trailers; parts and accessories	8,0	134,7	-1,8	-0,2
Other transport equipment	1,0	112,9	-0,4	-0,0
Furniture	1,6	98,0	+0,2	+0,0
Other manufacturing divisions	2,6	110,6	+0,2	+0,0
Total	100,0	108,2	-0,1	-0,1

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	105,8
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	108,4
J	102,1	102,9	104,9	104,5	100,5	110,4	113,7*
J	101,6	104,7	108,2	104,4	104,3	107,2	108,8
A	105,6	107,8	105,8	99,9	103,5	108,5	109,2 1/
S	106,8	105,2	108,2	106,8	107,0	112,4	
O	112,6	115,8	119,1	111,7	112,9	117,0	
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	100,6	102,2	108,9
F	99,1	98,6	105,1	102,9	99,8	104,9	107,6
M	99,9	99,5	100,3	100,9	99,6	106,9	109,7
A	97,5	102,1	111,2	101,7	100,3	99,2	107,6
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	110,6
J	99,8	102,4	105,7	102,0	102,1	105,0	106,8
A	102,5	104,5	103,0	97,8	101,5	106,6	107,3
S	101,6	100,2	103,1	101,8	102,2	107,2	
O	101,4	103,2	106,2	100,1	101,5	105,5	
N	100,0	103,1	100,9	99,2	104,5	109,3	
D	99,3	98,8	102,3	100,4	107,0	111,8	

* Revised

1/ Preliminary

Table 2 - Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups

Base 1995 = 100

Manufacturing divisions and major groups	Weights	Year	Actual indices			Seasonally adjusted indices			
			2000	August	July	August 1/	August	July	August
				2000	2001		2000	2001	
Food and food products	10,7	99,2	107,7	107,0	112,3	100,0	102,3	104,5	
Meat, fish, fruit etc.	2,8	111,7	104,1	109,3	118,3	102,7	119,3	116,6	
Dairy products	1,4	89,4	94,2	83,3	92,8	91,5	88,0	90,0	
Grain mill products	2,1	91,3	92,9	97,4	104,5	91,4	94,5	102,5	
Other food products	4,4	98,0	121,1	117,4	118,2	104,9	99,5	102,2	
Beverages	4,6	92,6	82,7	78,7	80,1	91,1	90,1	89,0	
Total textiles	2,9	93,5	97,1	99,6	101,1	92,3	92,7	96,4	
Textiles	1,7	84,6	88,8	93,9	96,8	83,2	87,0	90,7	
Other textile products	1,2	106,2	108,8	107,6	107,2	105,1	100,8	104,3	
Total wearing apparel	3,6	82,8	85,3	75,3	85,1	81,6	74,5	81,5	
Knitted, crocheted articles	0,6	73,9	69,4	75,5	79,9	68,7	74,5	79,1	
Wearing apparel	3,0	84,5	88,5	75,3	86,1	84,2	74,6	82,0	
Tanning and dressing of leather	0,4	125,2	114,6	115,3	98,4	114,0	119,9	97,9	
Footwear	0,9	65,6	70,8	53,5	58,5	65,1	53,5	53,8	
Wood and products of wood	1,9	119,3	125,2	121,5	119,8	120,9	117,0	116,0	
Sawmilling and planing of wood	0,8	104,8	114,3	105,3	95,5	107,5	99,4	89,8	
Products of wood	1,2	128,8	132,4	132,2	135,8	129,7	128,5	133,1	
Paper and paper products	5,3	105,3	106,1	100,2	99,0	105,7	100,6	99,3	
Total publishing and printing	4,1	87,8	92,0	82,0	83,6	89,8	81,5	81,7	
Publishing	1,5	97,8	93,6	90,2	96,6	94,2	94,6	97,3	
Printing, recorded media	2,6	82,3	91,1	77,4	76,3	87,3	74,2	73,0	
Coke and refined petroleum products	4,2	104,5	107,8	102,8	96,9	107,5	103,4	96,4	
Basic chemicals	4,5	134,9	143,2	142,8	133,3	147,4	147,7	137,3	
Other chemical products	6,2	101,8	101,8	103,5	105,8	102,3	101,7	106,4	
Rubber products	1,4	98,7	97,0	107,0	111,6	95,3	108,0	109,9	
Plastic products	3,1	89,7	95,2	91,6	102,2	92,6	89,0	99,3	
Glass and glass products	1,0	88,5	107,0	97,4	101,9	98,2	98,4	93,3	
Other non-metallic mineral products	3,5	90,0	96,2	97,0	100,3	91,2	93,4	95,1	
Basic iron and steel products	7,6	116,3	106,1	115,3	106,3	108,1	109,4	108,4	
Basic precious and non-ferrous metal products	3,2	163,4	171,3	153,2	172,5	167,5	150,8	168,5	
Fabricated metal products	7,0	103,4	114,2	112,4	116,5	110,5	109,9	112,5	
Structural metal products	2,4	90,5	93,5	108,2	108,9	93,3	107,8	107,8	
Other fabricated metal product	4,6	110,0	124,8	114,6	120,4	119,4	111,0	114,9	
Total machinery and equipment	5,8	99,6	98,4	106,0	123,9	95,1	104,8	120,1	
General purpose machinery	2,5	110,6	109,9	107,1	137,8	102,6	109,4	128,4	
Special purpose machinery	2,9	87,8	85,5	102,9	111,9	85,7	99,9	112,9	
Household appliances	0,4	116,9	120,0	121,9	123,0	116,4	111,4	120,0	
Electrical machinery, apparatus	3,4	102,1	96,3	99,1	104,8	95,8	97,1	104,1	
Radio, television and communication apparatus	1,0	123,7	134,2	106,5	117,7	127,6	103,2	112,0	
Professional equipment	0,5	80,9	81,2	89,4	90,1	78,4	83,8	87,4	
Motor vehicles; trailers; parts and accessories	8,0	125,4	126,5	147,3	121,9	126,5	141,4	122,1	
Motor vehicles	4,5	114,9	120,1	136,0	88,7	119,8	131,6	88,6	
Bodies for motor vehicles; trailers and semi-trailers	0,5	63,3	66,9	46,6	58,2	63,5	48,6	55,4	
Parts and accessories	3,0	152,4	147,0	182,8	183,3	147,9	173,2	184,7	
Other transport equipment	1,0	115,0	113,1	126,2	112,7	111,8	114,4	111,7	
Furniture	1,6	98,9	104,1	96,1	102,5	100,1	98,2	98,2	
Other manufacturing divisions	2,6	111,5	121,8	121,7	116,9	113,3	112,4	108,6	
Total	100,0	106,0	108,5	108,8	109,2	106,6	106,8	107,3	

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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	28 589 385	33 975 605*
F	24 414 317	26 328 500	29 866 793	29 901 544	30 607 558	35 164 838	39 135 132*
M	26 712 878	28 188 286	29 866 272	32 190 538	32 788 344	38 016 107	42 575 688*
A	22 897 368	26 231 967	30 438 604	29 758 879	30 508 382	32 678 871	37 421 410*
M	25 806 431	28 293 052	30 626 091	30 352 835	32 737 449	37 000 959	41 051 067*
J	26 204 689	28 261 416	30 575 542	31 723 893	33 126 289	38 664 168	42 650 477*
J	25 613 126	28 378 392	31 169 707	31 732 667	33 429 319	36 214 346	40 920 593
A	27 064 919	29 568 761	31 400 042	30 810 619	33 740 922	38 928 064	41 238 484 1/
S	27 737 968	29 549 724	31 344 644	32 896 327	35 884 855	39 880 334	
O	29 294 559	33 070 022	35 902 602	34 970 472	37 448 797	41 754 578	
N	29 960 074	33 084 713	33 709 581	34 300 610	38 909 651	43 856 584	
D	23 877 458	26 338 721	28 128 922	29 016 347	33 048 575	37 219 909	
Year	308 790 007	339 096 803	368 283 280	373 568 657	398 640 599	447 968 143*	
Seasonally adjusted values							
J	23 515 445	26 401 488	30 510 537	31 074 015	31 526 538	33 980 895	40 109 507
F	24 780 493	26 810 016	30 516 470	30 646 176	31 495 700	36 188 477	40 406 380
M	25 288 997	26 875 752	28 692 490	30 931 621	31 506 901	36 332 232	40 660 230
A	24 288 988	27 743 663	32 145 735	31 564 719	32 486 013	34 970 625	40 216 381
M	26 141 724	28 444 344	30 721 458	30 422 242	32 835 432	37 050 781	41 103 771
J	25 970 220	28 033 982	30 218 039	31 271 069	32 586 519	37 788 894	41 613 192
J	25 544 416	28 385 816	31 183 332	31 868 069	33 600 116	36 494 048	41 331 437
A	26 221 116	28 817 047	30 753 036	30 362 364	33 331 517	38 480 373	40 725 297
S	26 515 369	28 310 521	30 075 752	31 572 452	34 510 398	38 232 936	
O	26 218 601	29 565 762	32 141 006	31 276 058	33 656 614	37 761 378	
N	26 873 604	29 758 540	30 348 727	30 861 136	35 042 986	39 687 176	
D	26 776 218	29 265 004	30 835 385	31 406 597	35 915 701	40 403 081	

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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		
		August	July	August 1/	August	July	August
		2000	2001		2000	2001	
Food and food products	59 682 696	5 120 788	5 480 212	5 642 586	5 134 267	5 506 151	5 663 525
Meat, fish, fruit etc.	17 696 951	1 427 567	1 610 311	1 718 617	1 437 793	1 665 661	1 733 599
Dairy products	7 246 522	622 209	613 583	663 561	607 458	658 481	648 003
Grain mill products	15 373 318	1 288 677	1 405 811	1 515 813	1 265 949	1 381 991	1 485 561
Other food products	19 365 905	1 782 335	1 850 507	1 744 595	1 823 067	1 800 018	1 796 362
Beverages	20 378 659	1 574 984	1 583 348	1 662 958	1 714 213	1 769 361	1 796 096
Total textiles	10 164 459	871 828	944 477	978 457	842 194	903 706	942 370
Textiles	6 440 583	560 614	622 636	645 135	533 474	592 396	613 018
Other textile products	3 723 876	311 214	321 841	333 322	308 720	311 310	329 352
Total wearing apparel	10 523 645	907 209	888 467	967 979	872 252	906 475	933 900
Knitted, crocheted articles	1 693 563	139 162	154 324	157 509	137 738	152 528	155 761
Wearing apparel	8 830 082	768 047	734 143	810 470	734 514	753 947	778 139
Tanning and dressing of leather	2 666 786	193 455	202 264	201 710	197 872	205 659	207 296
Footwear	2 238 178	202 812	176 433	179 029	185 538	173 350	164 029
Wood and products of wood	9 073 197	774 407	865 209	823 342	761 316	830 793	811 790
Sawmilling and planing of wood	2 589 363	227 222	237 336	215 562	217 588	225 659	206 308
Products of wood	6 483 834	547 185	627 873	607 780	543 728	605 134	605 482
Paper and paper products	23 303 136	1 894 403	1 999 878	2 027 393	1 937 736	2 031 661	2 076 503
Total publishing and printing	11 678 548	969 116	972 298	1 010 467	965 683	996 475	1 006 791
Publishing	4 668 251	386 135	387 841	421 539	381 478	405 539	415 906
Printing, recorded media	7 010 297	582 981	584 457	588 928	584 205	590 936	590 885
Coke and refined petroleum products	31 823 682	3 149 991	3 378 520	3 298 201	2 905 010	3 534 822	3 026 147
Basic chemicals	21 571 212	1 838 117	2 171 866	2 008 001	1 908 435	2 195 242	2 082 061
Other chemical products	26 327 958	2 295 309	2 416 274	2 455 755	2 311 183	2 448 434	2 469 598
Rubber products	4 645 737	407 978	459 188	544 137	375 736	479 283	499 469
Plastic products	10 669 187	946 644	991 799	1 047 535	927 628	967 672	1 027 282
Glass and glass products	2 280 493	205 119	232 629	229 843	202 516	233 975	227 095
Other non-metallic mineral products	10 249 683	971 415	955 754	1 040 489	907 919	923 522	971 154
Basic iron and steel products	33 529 317	2 597 273	2 730 822	2 947 417	2 595 369	2 865 781	2 957 431
Basic precious and non-ferrous metal products	15 542 665	1 322 945	1 241 212	1 466 891	1 265 543	1 373 277	1 402 738
Fabricated metal products	24 753 734	2 257 543	2 268 052	2 494 208	2 168 684	2 262 549	2 389 953
Structural metal products	7 818 495	676 715	742 734	825 110	672 695	763 878	807 374
Other fabricated metal product	16 935 239	1 580 828	1 525 318	1 669 098	1 495 989	1 498 671	1 582 579
Total machinery and equipment	19 664 968	1 704 131	1 790 710	2 084 732	1 656 085	1 825 752	2 033 793
General purpose machinery	8 821 849	799 807	769 360	991 834	725 795	780 335	899 512
Special purpose machinery	8 658 911	717 435	830 168	883 983	749 016	861 657	930 803
Household appliances	2 184 208	186 889	191 182	208 915	181 274	183 760	203 478
Electrical machinery, apparatus	13 182 516	1 134 690	1 151 665	1 146 172	1 109 758	1 125 970	1 124 626
Radio, television and communication apparatus	4 639 808	495 715	294 766	400 370	422 791	290 512	339 060
Professional equipment	1 388 382	119 854	133 167	139 713	118 432	133 197	138 019
Motor vehicles; trailers; parts and accessories	53 962 953	4 927 124	5 581 525	4 263 993	5 016 920	5 310 240	4 339 232
Motor vehicles	37 436 200	3 299 436	3 953 638	2 612 899	3 377 893	3 724 431	2 673 382
Bodies for motor vehicles; trailers and semi-trailers	1 670 903	161 073	129 577	122 139	153 538	132 209	115 778
Parts and accessories	14 855 850	1 466 615	1 498 310	1 528 955	1 485 489	1 453 600	1 550 072
Other transport equipment	3 247 376	194 329	253 246	268 800	171 748	266 547	241 526
Furniture	6 253 537	551 644	525 459	555 094	528 573	514 009	530 352
Other manufacturing divisions	14 525 631	1 299 241	1 231 353	1 353 212	1 276 972	1 257 022	1 323 461
Total	447 968 143	38 928 064	40 920 593	41 238 484	38 480 373	41 331 437	40 725 297

* Revised

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	August	July	August 1/	August	July	August
	2000	2001		2000	2001	
Spinning, weaving and finishing of textiles	176 611	229 844	231 961	183 605	236 233	243 100
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	26 066	28 804	32 868	25 593	30 926	32 474
Other textile articles	59 673	53 128	70 531	63 078	52 455	74 740
Knitted and crocheted fabrics and articles	112 816	105 777	105 850	120 795	114 243	114 093
Wearing apparel	723 498	643 697	639 188	703 657	653 085	620 855
Sawmilling and preserving of timber	27 624	20 527	24 068	27 021	20 390	23 550
Veneer sheets, plywood, laminboard, etc.	24 506	21 972	25 805	24 710	21 079	26 021
Builders' carpentry and joinery	43 708	36 795	47 284	40 975	35 904	44 146
Pulp, paper and paperboard	580 720	479 856	406 622	525 778	426 734	373 140
Corrugated paper and paper-board and containers	386 106	377 074	372 966	407 479	405 527	391 653
Paints, varnishes and coatings	23 733	23 523	23 455	22 755	27 285	22 761
Basic iron and steel products	2 941 075	3 416 029	3 439 810	3 032 374	3 504 567	3 554 488
Steel pipe and tube mills	199 476	185 450	171 415	201 765	185 896	172 442
Basic precious and non-ferrous metal products	1 188 147	1 834 841	1 862 842	1 176 147	1 837 267	1 845 160
Metal structures, parts	1 292 062	1 594 554	1 546 533	1 267 403	1 525 072	1 513 944
Cutlery, hand tools and general hardware	25 813	17 114	17 086	27 484	17 404	18 365
Metal containers, e.g. cans and tins	75 436	80 209	79 707	81 016	84 301	85 035
Cables, wire products, springs	57 104	68 521	59 916	58 376	64 876	61 505
Metal fasteners	56 404	58 356	66 316	58 530	62 196	68 331
All other metal products	508 579	508 171	655 468	476 526	485 841	619 761
Domestic appliances	33 840	31 005	30 578	32 931	29 355	29 813
Electric motors, generators and transformers	515 629	415 220	409 503	502 298	393 875	397 587
Insulated wire and cables	304 004	467 149	445 090	308 221	451 678	452 304
Accumulators, primary cells and primary batteries	11 780	14 376	10 272	12 635	14 874	11 212
Television, radio and communication apparatus	1 094 550	2 059 133	1 993 145	1 059 846	2 007 297	1 929 939
Motor vehicles	2 023 281	2 186 934	2 341 467	2 076 303	2 259 463	2 397 104
Parts and accessories for motor vehicles	370 335	367 916	370 339	329 784	344 468	326 928
Furniture	251 568	250 593	284 372	243 902	267 838	279 090

* Revised