

Manufacturing: production and sales

November 2002

Note

It is important to take note that in the next statistical release, which is due to be published on 14 January 2003, the base year of the index of physical volume of manufacturing production will be changed from 1995=100 to 2000=100.

Co-operation between Statistics South Africa (Stats SA), the citizens of the country, the private sector and government institutions is essential for a successful statistical system. Without continued co-operation and goodwill, the timely release of relevant and reliable official statistics will not be possible.

Embargo: 13:00
Date: 14 December 2002

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 2002

Actual estimates	October 2002	% change between October 2001 and October 2002	% change between August 2001 to October 2001 and August 2002 to October 2002	% change between January 2001 to October 2001 and January 2002 to October 2002
Physical volume of manufacturing production index (1995=100)	127,7	+4,3	+7,6	+6,2
Total value of sales of manufactured products (R million)	58 632,0	+20,6	+26,7	+23,4

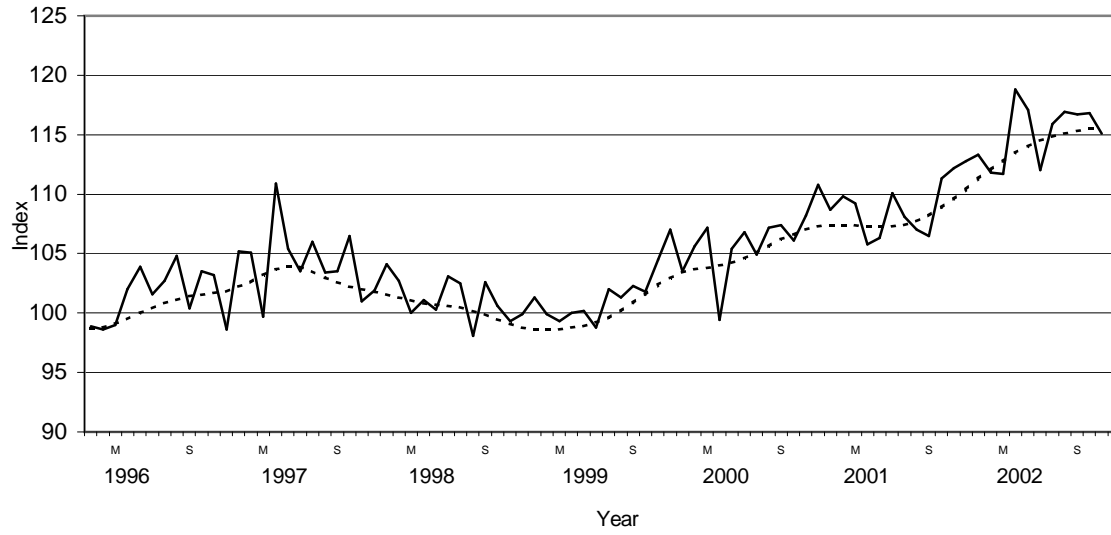
Seasonally adjusted estimates	October 2002	% change between September 2002 and October 2002	% change between May 2002 to July 2002 and August 2002 to October 2002
Physical volume of manufacturing production index (1995=100)	116,5	-0,3	+1,6
Total value of sales of manufactured Products (R million)	53 794,2	-0,3	+4,9

Key findings as at the end of October 2002**MANUFACTURING PRODUCTION INCREASES**

Manufacturing production for the three months ended October 2002 reflected an increase of 1,6% after seasonal adjustment compared with the previous three months. Higher production was reported by 16 of the 27 manufacturing divisions. Furthermore, the actual manufacturing production for the first ten months of 2002 reflected an increase of 6,2% compared with the first ten months of 2001.

The major contributor to the increase of 1,6% after seasonal adjustment in the total manufacturing production was the basic iron and steel products division (contributing +0,7 of a percentage point to the increase in total manufacturing production), followed by the fabricated metal products (+0,5 of a percentage point), paper and paper products (+0,2 of a percentage point), 'other' non-metallic mineral products (+0,2 of a percentage point) and machinery and equipment (+0,2 of a percentage point) divisions (cf. table A).

Figure 1 – Index of the physical volume of manufacturing production
BASE 1995=100



Source: Stats SA

_____ Seasonally adjusted - - - - - Trend cycle

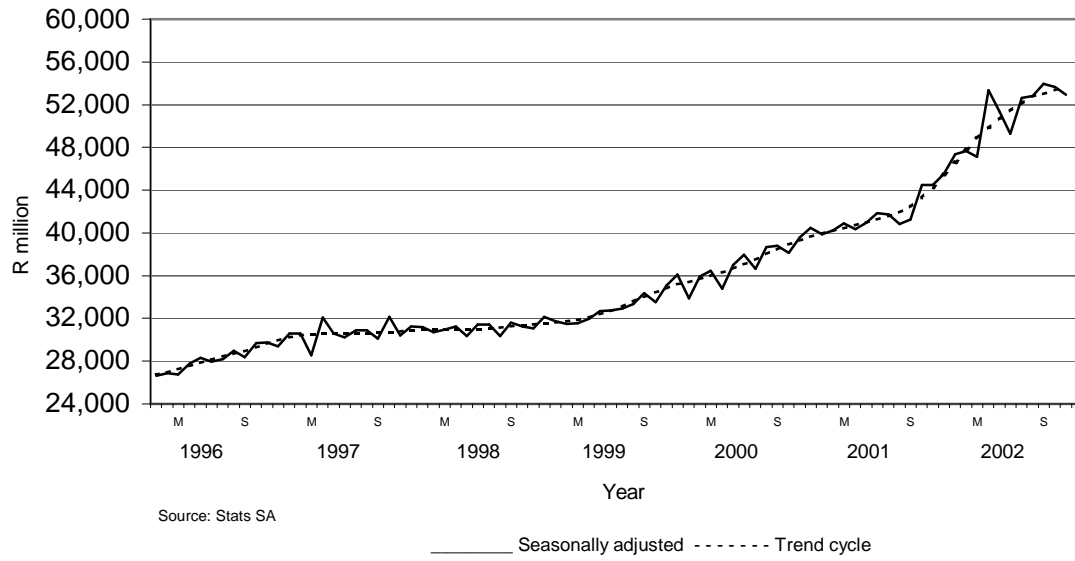
SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products at current prices for the three months ended October 2002 reflected an increase of 4,9% (+R7 541 million) after seasonal adjustment compared with the previous three months. Higher manufacturing sales were reported by 24 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 2002 reflected an increase of 26,7% (+R35 265 million) compared with the three months ended October 2001. Higher manufacturing sales were reported by all 27 manufacturing divisions during this period.

The increase of 4,9% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended October 2002 compared with the previous three months was mainly due to large increases reported by the basic iron and steel products division (+17,8% or +R2 087 million), basic chemicals (+7,3% or +R567 million), fabricated metal products (+7,2% or +R614 million), paper and paper products (+7,1% or +R516 million), motor vehicles, trailers, parts and accessories (+6,0% or +R1 193 million) and food and food products (+3,0% or +R628 million) divisions (cf. table B).

The major contributors to the increase of 26,7% in the actual value of sales of manufactured products at current prices for the three months ended October 2002 compared with the three months ended October 2001 were the motor vehicles, trailers, parts and accessories (+3,7 percentage points or +R4 865 million), basic iron and steel products (+3,5 percentage points or +R4 653 million), food and food products (+3,3 percentage points or +R4 413 million), coke and refined petroleum products (+2,2 percentage points or +R2 862 million), fabricated metal products (+1,6 percentage points or +R2 125 million), basic chemicals (+1,6 percentage points or +R2 094 million) and 'other' chemical products (+1,3 percentage points or +R1 752 million) divisions (cf. table C).

Figure 2 - Total value of sales of manufactured products at current prices



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Forthcoming issues

Issue

Expected release date

November 2002

14 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).
- Weighting**
- 7** 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 (cf. Table E for the fixed weights which were used for the two periods 1990 to 1992, 1993 to 1995 and 1996 to 2002).
- Rebasing**
- 8** In accordance with international practice, the indices have to be rebased every five years to a new base year. The indices in this statistical release have been calculated on the basis of 2000=100. The first results on this basis were published in November 2002. Both actual and seasonally adjusted figures are presented.

Survey methodology and design 9

The calculation of the monthly production indices is based on the value of products and articles manufactured, after the effect of price changes has been eliminated through deflation by using appropriate sub-indices of the Production Price Index (PPI). The value of the manufactured products is obtained from a monthly sample survey of manufacturing establishments in the private and public sectors.

10 The survey is collected by mail each month from a sample of approximately 2 330 manufacturing establishments.

11 The above-mentioned measurement method in paragraph 7 was followed in 38 of the various major groups. On account of certain considerations more appropriate indicators were used for the seven remaining major groups namely grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, bodies for motor vehicles and 'other transport equipment'. The volume indices for the major groups grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products and bodies for motor vehicles 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

12 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

- 13** 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.
- 14** 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

- 15** In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined as follows:

Seasonal adjustment

- 16** 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.

Trend cycle

- 17** 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.

Reliability of estimates

- 18** Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.

Historical data	19	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	20	<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	21	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	22	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	23	<p>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:</p> <p>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.</p>																		
	24	Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za .																		
Symbols and abbreviations		<table border="0"> <tr> <td>GDP</td> <td>Gross Domestic Product</td> </tr> <tr> <td>ISIC</td> <td>International Standard Classification of all Economic Activities</td> </tr> <tr> <td>PPI</td> <td>Production Price Index</td> </tr> <tr> <td>SIC</td> <td>Standard Industrial Classification of all Economic Activities</td> </tr> <tr> <td>SNA</td> <td>System of National Accounts</td> </tr> <tr> <td>Stats SA</td> <td>Statistics South Africa</td> </tr> <tr> <td>TBVC states</td> <td>Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states</td> </tr> <tr> <td>1/</td> <td>Preliminary figures</td> </tr> <tr> <td>*</td> <td>Revised figures</td> </tr> </table>	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
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*	Revised figures																			
Technical notes																				
Response rates		The response rate for the survey on manufacturing production and sales for October 2002 is 80,7%. The response rates by manufacturing major division are tabulated in table D.																		

Table D - Response rates for October 2002

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	306	83,7
Beverages	65	89,2
Textile	111	84,7
Total wearing apparel	127	89,0
Tanning and dressing of leather	26	96,2
Footwear	21	90,5
Wood and products of wood	122	73,0
Paper and paper products	93	74,2
Total publishing and printing	89	66,3
Coke and refined petroleum products	30	76,7
Basic chemicals	76	92,1
Other chemical products	108	80,6
Rubber products	18	100,0
Plastic products	88	78,4
Glass and glass products	14	85,7
Other non-metallic mineral products	133	75,2
Basic iron and steel products	42	83,3
Basic precious and non-ferrous metal products	23	73,9
Fabricated metal products	230	77,8
Total machinery and equipment	181	75,7
Electrical machinery, apparatus	76	86,8
Radio, television and communication apparatus	23	73,9
Professional equipment	28	75,0
Motor vehicles; trailers; parts and accessories	113	93,8
Other transport equipment	35	80,0
Furniture	59	79,7
Other manufacturing industries	82	69,5
Total	2 319	80,7

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 –

- 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 E - Weights and the average indices of physical volume of manufacturing production according to manufacturing divisions and major groups before re-basing

Base 1995 = 100

Manufacturing divisions and major groups	Weights			Average indices for the year 2000 before re-basing
	1990-1991	1992-1993	1994-2002	
Food and food products	10,97	12,33	10,71	99,1
Meat, fish, fruit etc.	2,93	3,20	2,83	111,7
Dairy products	1,40	1,68	1,36	89,4
Grain mill products	2,13	2,80	2,10	91,3
Other food products	4,52	4,65	4,41	97,6
Beverages	4,83	5,26	4,60	92,6
Total textiles	3,33	3,33	2,88	93,5
Textiles	2,09	2,03	1,69	84,6
Other textile products	1,24	1,30	1,19	106,2
Total wearing apparel	3,94	3,81	3,60	82,8
Knitted, crocheted articles	0,67	0,64	0,60	73,9
Wearing apparel	3,27	3,17	3,00	84,5
Tanning and dressing of leather	0,41	0,34	0,41	125,2
Footwear	1,15	1,10	0,93	65,6
Wood and products of wood	1,96	1,81	1,95	119,3
Sawmilling and planning of wood	0,98	0,82	0,77	104,8
Products of wood	0,97	0,99	1,17	128,8
Paper and paper products	4,58	4,73	5,32	105,3
Total publishing and printing	3,57	3,95	4,11	87,8
Publishing	1,15	1,41	1,48	97,8
Printing, recorded media	2,42	2,54	2,63	82,3
Coke and refined petroleum products	6,45	6,41	4,17	104,5
Basic chemicals	4,57	3,19	4,47	132,0
Other chemical products	5,97	6,61	6,17	101,8
Rubber products	1,59	1,52	1,36	98,7
Plastic products	2,58	2,85	3,08	89,7
Glass and glass products	1,15	0,99	1,00	88,5
Other non-metallic mineral products	3,67	3,58	3,50	97,6
Basic iron and steel products	6,90	6,49	7,56	116,3
Basic precious and non-ferrous metal products	2,15	2,19	3,25	175,6
Fabricated metal products	7,53	6,84	7,03	103,4
Structural metal products	2,84	2,04	2,39	90,5
Other fabricated metal products	4,69	4,80	4,65	110,0
Total machinery and equipment	6,31	6,06	5,78	99,7
General purpose machinery	2,58	2,59	2,50	110,6
Special purpose machinery	3,14	2,82	2,89	87,8
Household appliances	0,60	0,65	0,39	117,0
Electrical machinery, apparatus	3,36	3,49	3,45	102,1
Electric motors	0,31	0,37	0,57	106,9
Electricity distribution	0,32	0,46	0,52	135,2
Insulated wire and cable	0,71	0,79	0,77	91,1
Accumulators	0,43	0,47	0,33	82,3
Electric lamps	0,30	0,25	0,22	90,5
Other electrical equipment	1,28	1,15	1,04	99,9
Radio, television and communication apparatus	1,59	1,20	0,97	123,8
Professional equipment	0,41	0,54	0,51	80,9
Motor vehicles; trailers; parts and accessories	6,40	6,77	8,05	119,6
Motor vehicles	3,30	3,62	4,50	114,9
Bodies for motor vehicles; trailers and semi-trailers	0,61	0,52	0,55	63,3
Parts and accessories	2,49	2,62	3,00	137,0
Other transport equipment	1,16	1,10	1,01	118,3
Furniture	1,69	1,62	1,56	98,9
Other manufacturing divisions	1,79	1,88	2,58	111,5
TOTAL	100,0	100,0	100,0	100,0

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

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

Manufacturing Divisions	Percentage contribution to the total manufacturing production in the base year 1995 (Weights)	Average seasonally adjusted production index for the three months September 2002 to November 2002	Quarterly percentage change (September 2002 to November 2002 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	100,3	-0,1	-0,0
Beverages	4,6	103,7	-1,4	-0,1
Total textiles	2,9	106,3	+1,6	+0,1
Total wearing apparel	3,6	84,0	-0,2	-0,0
Tanning and dressing of leather	0,4	125,0	-0,1	-0,0
Footwear	0,9	55,7	+6,9	+0,1
Wood and products of wood	1,9	133,6	+4,2	+0,1
Paper and paper products	5,3	110,4	+1,9	+0,1
Total publishing and printing	4,1	82,9	+0,1	+0,0
Coke and refined petroleum products	4,2	107,7	+2,5	+0,1
Basic chemicals	4,5	151,3	-5,1	-0,2
Other chemical products	6,2	110,1	-1,5	-0,1
Rubber products	1,4	109,1	+4,1	+0,1
Plastic products	3,1	114,9	+0,9	+0,0
Glass and glass products	1,0	108,4	+2,4	+0,0
Other non-metallic mineral products	3,5	103,8	+5,6	+0,2
Basic iron and steel products	7,6	128,6	+0,9	+0,1
Basic precious and non-ferrous metal products	3,2	184,1	+3,4	+0,1
Fabricated metal products	7,0	129,8	+5,1	+0,4
Total machinery and equipment	5,8	125,9	+3,5	+0,2
Electrical machinery, apparatus	3,4	103,4	-4,6	-0,2
Radio, television and communication apparatus	1,0	99,8	+9,4	+0,1
Professional equipment	0,5	101,2	+2,1	+0,0
Motor vehicles; trailers; parts and accessories	8,0	129,5	-2,5	-0,2
Other transport equipment	1,0	164,0	+28,5	+0,3
Furniture	1,6	103,4	+3,9	+0,1
Other manufacturing divisions	2,6	118,2	+1,4	+0,0
Total	100,0	116,2	+1,1	+1,1

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	1996	1997	1998	1999	2000	2001	2002
Actual indices							
J	83,6	89,8	89,6	88,0	90,8	95,6	99,4
F	96,7	103,1	101,1	98,3	104,2	108,3	110,7
M	102,6	102,5	102,7	102,2	111,0	113,4	116,3
A	96,4	105,5	96,3	95,2	94,4	100,2	111,9
M	104,1	106,2	101,1	100,7	105,9	106,9	117,7
J	102,9	104,9	104,5	100,0	108,3	111,5	113,3
J	104,7	108,2	104,4	103,6	106,3	109,3	117,0
A	107,8	105,8	99,9	102,7	108,7	108,5	118,7
S	105,2	108,2	106,8	106,1	111,0	109,7	119,9*
O	115,8	119,1	111,7	112,6	116,7	122,4	128,1
N	114,4	111,7	109,8	115,6	120,1	124,8	127,9 1/
D	83,7	86,9	85,3	91,3	95,0	97,1	

Year	101,5	104,3	101,1	101,4	106,0	109,0	

Seasonally adjusted indices							
J	98,9	105,2	104,1	101,3	103,4	108,7	113,3
F	98,6	105,1	102,7	99,9	105,6	109,8	111,8
M	99,0	99,7	100,0	99,3	107,2	109,2	111,7
A	102,0	110,9	101,1	100,0	99,4	105,8	118,8
M	103,9	105,4	100,3	100,2	105,4	106,3	117,1
J	101,6	103,5	103,1	98,8	106,8	110,0	112,0
J	102,7	106,0	102,5	102,0	104,9	108,1	115,9
A	104,8	103,4	98,1	101,3	107,2	107,0	116,9
S	100,4	103,4	102,6	102,3	107,4	106,4	116,7
O	103,4	106,5	100,6	101,8	106,1	111,3	116,8
N	103,1	101,0	99,3	104,5	108,2	112,2	115,1
D	98,6	101,9	99,9	107,0	110,8	112,8	

* 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					
			2001	November	October	November1/	November	October	November		
				2001		2002		2001		2002	
Food and food products	10,7	104,3	114,8	107,1	109,1	103,4	100,7	98,6			
Meat, fish, fruit etc.	2,8	120,0	129,8	138,9	133,3	124,2	130,7	128,1			
Dairy products	1,4	92,4	100,8	91,5	96,0	89,8	87,2	85,6			
Grain mill products	2,1	99,8	111,8	104,8	106,9	106,8	100,1	102,1			
Other food products	4,4	100,1	110,8	92,5	98,6	92,7	85,8	82,1			
Beverages	4,6	98,5	113,1	111,6	119,7	98,6	103,2	104,9			
Total textiles	2,9	96,4	121,0	119,4	125,3	105,0	106,9	108,5			
Textiles	1,7	86,3	105,2	115,5	108,4	95,8	102,5	98,6			
Other textile products	1,2	110,8	143,3	125,0	149,2	118,1	113,3	122,6			
Total wearing apparel	3,6	78,9	99,1	105,2	102,6	80,8	85,3	83,4			
Knitted, crocheted articles	0,6	76,5	90,9	102,3	96,6	80,0	88,7	84,5			
Wearing apparel	3,0	79,4	100,8	105,8	103,8	81,0	84,7	83,1			
Tanning and dressing of leather	0,4	114,8	115,3	134,3	132,7	103,0	123,5	119,6			
Footwear	0,9	53,9	61,1	72,3	67,4	50,8	57,1	56,1			
Wood and products of wood	1,9	120,8	144,2	149,8	154,5	124,9	133,6	134,3			
Sawmilling and planing of wood	0,8	101,5	107,5	120,6	122,2	98,2	110,2	112,2			
Products of wood	1,2	133,4	168,2	169,0	175,7	142,4	149,0	148,8			
Paper and paper products	5,3	103,5	110,3	106,4	110,4	105,5	103,6	105,7			
Total publishing and printing	4,1	83,8	99,7	93,0	95,2	86,1	83,7	82,1			
Publishing	1,5	96,2	113,5	97,7	102,4	101,3	88,6	91,0			
Printing, recorded media	2,6	76,8	91,9	90,3	91,2	77,6	81,0	77,1			
Coke and refined petroleum products	4,2	104,6	111,5	116,2	102,2	108,3	114,4	99,6			
Basic chemicals	4,5	140,3	174,0	169,6	164,4	148,0	150,8	140,1			
Other chemical products	6,2	106,1	125,3	125,2	122,2	111,1	111,7	108,1			
Rubber products	1,4	99,3	113,8	121,1	125,0	103,7	113,8	113,4			
Plastic products	3,1	97,0	117,5	126,8	135,6	100,2	115,3	115,9			
Glass and glass products	1,0	98,9	113,6	118,4	125,9	95,9	109,5	107,0			
Other non-metallic mineral products	3,5	97,9	115,7	118,9	115,4	102,0	104,5	101,7			
Basic iron and steel products	7,6	116,2	123,4	133,8	134,9	118,6	125,3	128,7			
Basic precious and non-ferrous metal products	3,2	171,8	171,0	183,6	190,2	168,1	186,4	186,7			
Fabricated metal products	7,0	111,1	138,8	144,4	143,4	122,9	132,8	127,5			
Structural metal products	2,4	101,4	121,5	113,1	123,1	103,1	106,2	105,0			
Other fabricated metal product	4,6	116,1	147,7	160,5	153,9	133,0	146,4	139,1			
Total machinery and equipment	5,8	109,0	110,6	128,9	135,1	108,9	121,6	132,7			
General purpose machinery	2,5	113,0	105,7	135,7	137,5	111,2	132,0	144,0			
Special purpose machinery	2,9	104,3	107,3	121,4	125,3	103,5	112,6	119,9			
Household appliances	0,4	118,8	165,7	141,0	192,0	134,4	121,5	154,9			
Electrical machinery, apparatus	3,4	102,7	112,1	116,5	115,9	103,2	102,7	106,9			
Radio, television and communication apparatus	1,0	94,5	135,7	104,2	113,9	124,7	101,2	104,2			
Professional equipment	0,5	83,4	104,4	112,1	107,3	98,5	105,4	101,3			
Motor vehicles; trailers; parts and accessories	8,0	130,1	147,8	156,9	146,4	130,6	135,6	129,3			
Motor vehicles	4,5	127,6	151,7	141,7	135,7	134,2	124,0	120,4			
Bodies for motor vehicles; trailers and semi-trailers	0,5	66,7	79,3	73,1	69,5	69,3	77,8	60,3			
Parts and accessories	3,0	145,6	154,6	195,0	176,5	136,4	163,5	155,4			
Other transport equipment	1,0	122,1	136,3	165,3	140,4	145,8	151,9	149,7			
Furniture	1,6	98,2	142,0	141,6	132,3	108,1	108,4	99,9			
Other manufacturing divisions	2,6	110,6	143,2	149,4	151,2	112,1	121,9	118,0			
Total	100,0	109,0	124,8	128,1	127,9	112,2	116,8	115,1			

* Revised

1/ Preliminary

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

Month	1996	1997	1998	1999	2000	2001	2002
Actual values							
J	21 803 249	25 254 480	25 913 926	26 362 762	28 647 234	33 988 164	40 272 591
F	26 328 500	29 866 793	29 901 544	30 551 283	34 961 840	39 187 078	46 539 563
M	28 188 286	29 866 272	32 190 538	32 737 212	38 039 203	42 683 525	49 227 081
A	26 231 967	30 438 604	29 758 879	30 447 208	32 651 220	37 828 090	49 700 139
M	28 293 052	30 626 091	30 352 835	32 680 898	37 038 716	41 146 142	51 639 273
J	28 261 416	30 575 542	31 723 893	33 054 424	38 710 074	42 743 527	50 376 040
J	28 378 392	31 169 707	31 732 667	33 262 293	36 234 329	41 174 318	51 785 228
A	29 568 761	31 400 042	30 810 619	33 586 437	38 992 758	41 164 534	53 378 270*
S	29 549 724	31 344 644	32 896 327	35 703 435	39 916 972	42 295 572	55 269 715*
O	33 070 022	35 902 602	34 970 472	37 386 689	41 775 594	48 601 886	58 648 405
N	33 084 713	33 709 581	34 300 610	38 843 424	43 881 507	49 478 825	58 537 775 1/
D	26 338 721	28 128 922	29 016 347	32 992 528	37 256 576	42 207 610	
Year	339 096 803	368 283 280	373 568 657	397 608 593	448 106 023	502 499 271	
Seasonally adjusted values							
J	26 400 376	30 501 461	31 058 523	31 416 630	33 876 452	39 829 492	47 381 098
F	26 824 025	30 520 180	30 628 962	31 360 972	35 807 016	40 135 381	47 664 897
M	26 886 217	28 701 168	30 939 925	31 470 927	36 351 893	40 762 869	46 955 291
A	27 717 250	32 093 379	31 472 071	32 257 657	34 672 063	40 256 735	53 238 709
M	28 438 676	30 701 447	30 370 307	32 677 706	36 883 328	40 851 764	51 203 450
J	28 032 508	30 212 934	31 233 177	32 501 626	37 853 799	41 736 666	49 134 336
J	28 364 116	31 167 823	31 854 859	33 522 618	36 616 448	41 683 731	52 507 043
A	28 806 502	30 745 423	30 342 963	33 227 366	38 570 722	40 676 510	52 752 299
S	28 370 488	30 170 760	31 788 084	34 663 477	38 770 684	41 211 434	53 946 560
O	29 573 220	32 169 949	31 386 289	33 773 080	38 041 334	44 373 104	53 674 107
N	29 750 704	30 349 374	30 853 266	34 972 708	39 667 199	44 606 517	52 927 040
D	29 270 994	30 818 959	31 453 460	35 795 334	40 381 234	45 382 519	

* Revised

1/ Preliminary

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

Manufacturing divisions and major groups	Year	Actual values			Seasonally adjusted values		
		November	October	November 1/	November	October	November
		2001		2002		2002	
		2001	2001	2002	2001	2002	2002
Food and food products	67 534 885	6 607 488	7 704 008	7 830 397	5 965 497	7 191 680	7 094 116
Meat, fish, fruit etc.	20 191 117	2 046 064	2 542 259	2 489 143	1 865 828	2 370 766	2 268 045
Dairy products	7 941 251	750 962	834 819	882 186	661 133	781 748	779 153
Grain mill products	17 779 456	1 692 516	2 222 518	2 200 674	1 650 506	2 129 141	2 150 343
Other food products	21 623 061	2 117 946	2 104 412	2 258 394	1 788 030	1 910 025	1 896 575
Beverages	23 706 465	2 234 893	2 392 517	2 598 487	2 028 788	2 307 525	2 365 855
Total textiles	11 022 124	1 170 256	1 262 195	1 375 520	1 013 905	1 146 783	1 188 527
Textiles	6 965 073	721 451	841 882	875 404	641 155	768 174	775 248
Other textile products	4 057 051	448 805	420 313	500 116	372 750	378 609	413 279
Total wearing apparel	10 927 300	1 205 191	1 308 114	1 346 659	975 041	1 090 048	1 089 046
Knitted, crocheted articles	1 846 405	191 594	220 105	217 447	169 492	202 147	192 228
Wearing apparel	9 080 895	1 013 597	1 088 009	1 129 212	805 549	887 901	896 818
Tanning and dressing of leather	2 803 508	267 167	337 206	327 250	239 569	304 897	294 231
Footwear	1 974 373	216 592	252 465	246 102	171 029	197 684	195 306
Wood and products of wood	10 173 522	1 110 477	1 295 463	1 253 384	950 269	1 171 416	1 070 063
Sawmilling and planing of wood	2 760 863	270 944	312 945	329 653	241 458	279 869	294 397
Products of wood	7 412 659	839 533	982 518	923 731	708 811	891 547	775 666
Paper and paper products	25 164 997	2 356 281	2 523 048	2 646 253	2 175 023	2 479 974	2 444 596
Total publishing and printing	12 318 990	1 303 223	1 369 720	1 453 943	1 088 942	1 213 178	1 207 151
Publishing	5 137 601	519 290	503 344	535 003	464 086	455 033	476 202
Printing, recorded media	7 181 389	783 933	866 376	918 940	624 856	758 145	730 949
Coke and refined petroleum products	36 708 220	3 136 710	4 202 323	4 104 701	3 035 487	3 852 537	3 997 149
Basic chemicals	25 202 064	2 626 215	3 055 696	2 873 021	2 223 272	2 629 096	2 428 699
Other chemical products	29 537 288	2 967 122	3 504 642	3 401 398	2 637 130	3 030 250	3 027 513
Rubber products	5 324 083	525 137	644 221	655 097	485 883	586 810	603 514
Plastic products	12 261 989	1 279 818	1 486 660	1 561 417	1 091 299	1 336 586	1 334 812
Glass and glass products	2 841 584	308 106	347 087	342 822	241 057	275 323	270 281
Other non-metallic mineral products	12 216 261	1 188 095	1 421 873	1 429 619	1 058 590	1 272 402	1 268 926
Basic iron and steel products	35 607 441	3 355 957	4 698 657	4 682 909	3 306 556	4 501 137	4 606 231
Basic precious and non-ferrous metal products	17 972 477	1 464 541	1 932 634	1 598 721	1 498 251	1 851 983	1 652 262
Fabricated metal products	27 694 470	2 929 388	3 340 131	3 504 379	2 502 010	3 081 465	2 994 317
Structural metal products	9 132 860	905 075	1 019 533	1 103 223	770 624	958 471	941 537
Other fabricated metal product	18 561 610	2 024 313	2 320 598	2 401 156	1 731 386	2 122 993	2 052 781
Total machinery and equipment	21 839 183	1 981 476	2 306 874	2 510 403	1 889 960	2 244 930	2 399 766
General purpose machinery	9 421 686	906 843	958 167	1 053 275	843 865	957 924	980 536
Special purpose machinery	10 085 479	792 501	1 081 325	1 093 609	822 109	1 064 483	1 132 410
Household appliances	2 332 018	282 132	267 382	363 519	223 986	222 523	286 819
Electrical machinery, apparatus	13 981 876	1 363 323	1 541 368	1 645 540	1 224 281	1 421 530	1 471 116
Radio, television and communication apparatus	3 634 854	358 809	418 228	450 575	355 229	450 537	444 045
Professional equipment	1 657 936	155 154	199 058	189 433	141 766	195 757	173 124
Motor vehicles; trailers; parts and accessories	65 043 901	6 784 456	8 155 851	7 636 572	6 054 538	7 244 208	6 795 336
Motor vehicles	45 822 893	4 920 473	5 759 116	5 286 204	4 397 519	5 147 020	4 708 904
Bodies for motor vehicles; trailers and semi-trailers	1 620 464	142 167	212 024	212 517	130 033	204 669	195 293
Parts and accessories	17 600 544	1 721 816	2 184 711	2 137 851	1 526 987	1 892 519	1 891 139
Other transport equipment	3 373 967	323 150	443 402	379 083	335 300	402 817	401 236
Furniture	6 227 972	744 326	787 622	816 403	556 853	589 704	608 189
Other manufacturing divisions	15 747 541	1 515 474	1 717 342	1 677 687	1 360 990	1 603 850	1 501 633
Total	502 499 271	49 478 825	58 648 405	58 537 775	44 606 517	53 674 107	52 927 040

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	November	October	November 1/	November	October	November
	2001	2002		2001	2002	
Spinning, weaving and finishing of textiles	227 623	324 196	310 149	233 254	315 343	318 824
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	28 885	38 275	34 452	33 578	35 743	40 060
Other textile articles	83 178	87 364	91 568	80 184	78 840	87 678
Knitted and crocheted fabrics and articles	104 831	164 004	149 486	103 917	146 547	148 076
Wearing apparel	716 160	926 978	749 540	717 332	841 616	753 101
Sawmilling and preserving of timber	12 308	19 454	25 894	12 229	19 518	25 600
Veneer sheets, plywood, laminboard, etc.	25 518	35 716	36 001	24 008	34 233	34 080
Builders' carpentry and joinery	43 372	40 423	41 180	38 823	35 425	36 873
Pulp, paper and paperboard	413 988	269 866	332 257	317 712	221 916	252 125
Corrugated paper and paperboard and containers	334 467	392 096	385 534	317 113	372 492	365 622
Paints, varnishes and coatings	32 615	25 771	26 035	26 978	22 766	21 623
Basic iron and steel products	3 372 187	4 983 909	4 562 268	3 378 095	4 876 648	4 582 950
Steel pipe and tube mills	214 787	531 518	459 983	201 855	499 597	434 304
Basic precious and non-ferrous metal products	1 556 576	1 767 075	1 728 349	1 669 376	1 712 000	1 867 306
Metal structures, parts	1 373 545	1 459 322	1 454 215	1 391 134	1 423 255	1 480 307
Cutlery, hand tools and general hardware	20 360	19 329	32 583	18 422	19 027	29 153
Metal containers, e.g. cans and tins	75 307	79 682	69 594	74 902	85 041	69 900
Cables, wire products, springs	73 691	60 671	55 252	73 864	56 553	55 341
Metal fasteners	84 552	95 808	88 801	80 822	87 852	84 536
All other metal products	866 037	892 286	1 021 143	796 809	920 540	927 260
Domestic appliances	31 927	32 754	31 415	31 704	30 225	30 906
Electric motors, generators and transformers	358 801	545 004	550 622	365 451	545 914	560 042
Insulated wire and cables	285 804	378 146	378 087	296 942	373 560	391 533
Accumulators, primary cells and primary batteries	11 457	5 603	5 597	11 471	5 636	5 559
Television, radio and communication apparatus	1 838 236	2 047 661	2 004 419	2 072 307	2 162 277	2 285 345
Motor vehicles	2 486 423	2 475 037	2 370 848	2 439 569	2 501 010	2 317 503
Parts and accessories for motor vehicles	523 808	316 346	332 047	581 621	351 541	367 548
Furniture	339 968	503 240	391 250	295 391	341 250	341 095

* Revised

Table C - Contribution of the manufacturing divisions to total value of sales of manufactured products

Manufacturing	Percentage contribution to total value of sales of manufactured products September 2001 to November 2001	Percentage change between September 2001 to November 2001 and September 2002 to November 2002	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions between September 2001 to November 2001 and September 2002 to November 2002
				R'000
Food and food products	13,1	23,5	3,1	4 332 299
Beverages	4,6	13,2	0,6	851 644
Total textiles	2,3	20,5	0,5	655 523
Total Wearing apparel	2,3	15,8	0,4	515 601
Tanning and dressing of leather	0,5	32,4	0,2	227 702
Footwear	0,4	19,5	0,1	115 538
Wood and products of wood	2,1	24,7	0,5	734 801
Paper and paper products	4,9	20,0	1,0	1 368 788
Total publishing and printing	2,5	13,4	0,3	478 575
Coke and refined petroleum products	6,6	31,0	2,0	2 877 375
Basic chemicals	5,1	25,1	1,3	1 800 412
Other chemical products	6,0	19,5	1,2	1 630 878
Rubber products	1,0	36,1	0,4	493 875
Plastic products	2,5	25,1	0,6	880 224
Glass and glass products	0,6	16,2	0,1	141 827
Other non-metallic mineral products	2,5	21,2	0,5	730 932
Basic iron and steel products	7,0	45,6	3,2	4 464 913
Basic precious and non-ferrous metal products	3,1	22,1	0,7	974 500
Fabricated metal products	5,7	25,3	1,4	2 026 128
Total machinery and equipment	4,2	20,3	0,9	1 208 217
Electrical machinery, apparatus	2,7	19,7	0,5	758 392
Radio, television and communication apparatus	0,6	47,3	0,3	429 135
Professional equipment	0,3	25,5	0,1	112 960
Motor vehicles; trailers; parts and accessories	14,3	14,3	2,0	2 861 371
Other transport equipment	0,7	38,6	0,3	361 457
Furniture	1,4	12,2	0,2	244 661
Other manufacturing divisions	2,9	19,9	0,6	801 884
Total	100,0	22,9	22,9	32 079 612

1/ The contribution (percentage points) is calculated by multiplying the percentage change of each manufacturing division with the percentage contribution of the same division during corresponding period, divided by 100.

Table B - Contribution of the manufacturing divisions to the total value of seasonally adjusted sales of manufactured products

Manufacturing Divisions	Seasonally adjusted sales September 2002 to November 2002	Percentage change between June 2002 to August 2002 and September 2002 to November 2002	Difference in seasonally adjusted sales of manufacturing divisions between June 2002 to August 2002 and September 2002 to November 2002
	R'000		R'000
Food and food products	21 610 963	+2,5	523 999
Beverages	6 923 900	-0,3	17 456
Total textiles	3 488 780	+3,5	116 711
Total Wearing apparel	3 200 541	+5,0	151 192
Tanning and dressing of leather	887 217	+0,9	7 529
Footwear	577 959	+9,1	47 999
Wood and products of wood	3 346 098	+8,2	254 465
Paper and paper products	7 728 075	+3,7	273 057
Total publishing and printing	3 612 545	+1,8	63 300
Coke and refined petroleum products	11 848 757	+1,2	135 135
Basic chemicals	8 071 950	+3,6	277 209
Other chemical products	9 076 807	+1,2	106 797
Rubber products	1 739 523	+6,7	108 659
Plastic products	3 958 767	+3,0	116 888
Glass and glass products	840 301	+0,6	4 707
Other non-metallic mineral products	3 806 511	+7,2	254 469
Basic iron and steel products	13 925 232	+11,8	1 470 407
Basic precious and non-ferrous metal products	5 261 755	-2,3	121 574
Fabricated metal products	9 141 477	+7,2	613 034
Total machinery and equipment	6 800 866	-1,8	128 179
Electrical machinery, apparatus	4 241 960	-1,7	71 304
Radio, television and communication apparatus	1 327 244	+28,2	291 705
Professional equipment	538 017	+5,4	27 531
Motor vehicles; trailers; parts and accessories	20 916 170	+5,4	1 080 904
Other transport equipment	1 263 003	+29,1	284 932
Furniture	1 794 382	+2,6	45 714
Other manufacturing industries	4 618 907	+5,4	236 200
Total	160 547 707	+4,0	6 154 030