

Manufacturing: production and sales P3041.2

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Statistician-General: Statistics South Africa

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Actual estimates	December 2000	% change between December 1999 and December 2000	% change between October 1999 to December 1999 and October 2000 to December 2000	% change between January 1999 to December 1999 and January 2000 to December 2000
Physical volume of manufacturing production index (1995=100)	94,3	+4,1	+4,0	+4,4
Total value of sales of manufactured products (R million)	37 705,1	+14,2	+12,7	+12,5

Seasonally adjusted estimates	December 2000	% change between November 2000 and December 2000	% change between July 2000 to September 2000 and October 2000 to December 2000

Physical volume of manufacturing production index (1995=100)	111,4	+1,9	+2,6
Total value of sales of manufactured products (R million)	41 028,4	+3,4	+4,8

Key findings for the year 2000

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the year 2000 reflected an increase of 4,4% compared with the year 1999. Higher production was reported by 19 of the 27 manufacturing divisions.

The major contributors to the annual increase of 4,4% were the motor vehicle division (+1,7 percentage points), followed by basic iron and steel products (+1,5 percentage points), and paper and paper products (+0,4 of a percentage point) divisions.

SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products for the year 2000 reflected an increase of 12,5% (+R49 782 million) compared with sales for the year 1999. An increase in manufacturing sales were reported by 23 of the 27 manufacturing divisions.

The largest increases were reported by the coke and refined petroleum products (+51,6% or R10 836 million), basic iron and steel products (+27,3% or +R7 115 million), and motor vehicle (+25,0% or +R10 696 million) divisions.

Key findings as at the end of December 2000

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the fourth quarter of 2000 reflected an increase of 2,6% after seasonal adjustment compared with the third quarter of 2000. Higher production was reported by 16 of the 27 manufacturing divisions.

The major contributors to the increase of 2,6% after seasonal adjustment in the total manufacturing

production were the motor vehicle division (+0,6 of a percentage point), followed by basic iron and steel products (+0,4 of a percentage point) and machinery and equipment (+0,4 of a percentage point) divisions. However, these increases were partially counteracted by decreases in production reported by the beverage (-0,3 of a percentage point) and other chemical products (-0,2 of a percentage point) divisions (cf. table A).

SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products for the fourth quarter of 2000 reflected an increase of 4,8% (R5 419 million) after seasonal adjustment compared with the third quarter of 2000. Furthermore, the actual value of sales of manufactured products for the fourth quarter of 2000 reflected an increase of 12,7% (+R13 886 million) compared with the fourth quarter of 1999. Higher manufacturing sales were reported by 22 of the 27 manufacturing divisions during this period.

The increase of 4,8% after seasonal adjustment in the total value of sales of manufactured products for the fourth quarter of 2000 compared with the third quarter of 2000 was mainly due to large increases reported by the electrical machinery (+12,7% or +R410 million), coke and refined petroleum products (+12,1% or R995 million), motor vehicle (+8,3% or R1 157 million), paper and paper products (+6,5% or +R384 million) and basic iron and steel products (+6,4% or +R521 million) divisions.

The major contributors to the increase of 12,7% in the actual value of sales of manufactured products for the fourth quarter of 2000 compared with the fourth quarter of 1999 were the coke and refined petroleum products (+3,0 percentage points or +R3 229 million), motor vehicle (+2,7 percentage points or +R2 986 million), basic iron and steel products (+1,4 percentage points or +R1 575 million), fabricated metal products (+0,9 of a percentage point or +R960 million) and paper and paper products (+0,8 of a percentage point or +R900 million) divisions.

Notes

Forthcoming issues	Issue	Expected release date

	January 2001	13 March 2001
	February 2001	10 April 2001
Purpose of the survey		
	<p>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.</p>	

Additional information

Explanatory notes

Introduction	1	<p>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.</p>
	2	<p>In accordance with international practice, the indices have to be rebased every five years to a new base year. The indices in this statistical release have been calculated on the basis of 1995=100 since November 1997. Both actual and seasonally adjusted figures are presented.</p>

	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	<p>This survey covers manufacturing establishments conducting activities regarding -</p> <ul style="list-style-type: none"> ▪ 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

		<p>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.</p>
Sample design	10	<p>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.</p>
Benchmarking	11	<p>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</p>

		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	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	15	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	16	Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.
Historical data	17	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	18	Users may also wish to refer to the following publications which are available from Stats SA - <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.
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:
	22	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.
	23	Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za .
Symbols and abbreviations		<p>Stats SA Statistics South Africa</p> <p>TBVC states Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states</p> <p>SIC Standard Industrial Classification of all Economic Activities</p> <p>ISIC International Standard Classification of all Economic Activities</p> <p>SNA System of National Accounts</p> <p>PPI Production Price Index</p> <p>GDP Gross Domestic Product</p> <p>1/ Preliminary figures</p> <p>* Revised figures</p>

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

Table B - Response rates for December 2000

Manufacturing major divisions	% response
Food and food products	77,4
Beverages	83,3
Textile	94,6
Total wearing apparel	74,1
Tanning and dressing of leather	63,6
Footwear	65,2
Wood and products of wood	80,0
Paper and paper products	80,6
Total publishing and printing	60,7
Coke and refined petroleum products	67,7
Basic chemicals	88,6
Other chemical products	88,5

Rubber products	78,3
Plastic products	62,9
Glass and glass products	91,7
Other non-metallic mineral products	68,5
Basic iron and steel products	70,3
Basic precious and non-ferrous metal products	60,0
Fabricated metal products	77,1
Total machinery and equipment	70,5
Electrical machinery, apparatus	45,6
Radio, television and communication apparatus	65,2
Professional equipment	50,0
Motor vehicles; trailers; parts and accessories	80,3
Other transport equipment	82,9
Furniture	74,3
Other manufacturing industries	66,7
Total	74,6 ^{1/}

^{1/} Manufacturing establishments normally close down their operations during the festive season, and upon re-opening in the new year goes through a period of catching-up on outstanding administrative issues. This normally leads to manufacturers being unable to provide Stats SA with their manufacturing

production and sales information for November timeously. The information for November 2000 was revised in this issue based on a response rate of 76,4%.

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 June 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;

	<ul style="list-style-type: none"> • 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	<p>Output is the aggregate value of goods manufactured and work done.</p> <p>Output includes -</p> <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 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 October 2000 to December 2000	Quarterly percentage change (October 2000 to December 2000 compared with the preceding three months)	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and food products	10,7	99,0	-0,7	-0,1
Beverages	4,6	88,3	-7,0	-0,3
Total textiles	2,9	90,3	-3,2	-0,1
Total wearing apparel	3,6	80,7	+0,9	+0,0
Tanning and dressing of leather	0,4	129,3	+4,3	+0,0
Footwear	0,9	62,0	-2,7	-0,0
Wood and products of wood	1,9	118,1	-1,4	-0,0
Paper and paper products	5,3	107,2	+0,2	+0,0
Total publishing and printing	4,1	87,3	-0,1	-0,0
Coke and refined petroleum products	4,2	108,2	-0,6	-0,0
Basic chemicals	4,5	145,1	+7,2	+0,3
Other chemical products	6,2	97,9	-3,1	-0,2
Rubber products	1,4	104,3	+9,3	+0,2
Plastic products	3,1	91,4	-0,1	-0,0
Glass and glass products	1,0	90,6	-5,5	-0,1
Other non-metallic mineral products	3,5	92,8	+4,0	+0,2
Basic iron and steel products	7,6	119,1	+5,4	+0,4
Basic precious and non-ferrous metal products	3,2	171,3	+8,8	+0,3
Fabricated metal products	7,0	107,8	+3,7	+0,3
Total machinery and equipment	5,8	107,4	+6,8	+0,4
Electrical machinery, apparatus	3,4	107,7	+8,2	+0,3
Radio, television and communication apparatus	1,0	109,6	-12,7	-0,1
Professional equipment	0,5	87,7	+7,7	+0,1
Motor vehicles; trailers;				

parts and accessories	8,0	137,3	+6,7	+0,6
Other transport equipment	1,0	122,1	+8,0	+0,1
Furniture	1,6	109,3	+14,3	+0,2
Other manufacturing divisions	2,6	112,1	+1,7	+0,1
Total	100,0	108,8	+2,6	+2,6

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

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

Base 1995 = 100							
Month	1994	1995	1996	1997	1998	1999	2000
Actual indices							
J	72,7	80,6	83,6	89,8	89,6	86,7	88,8
F	87,0	97,6	96,7	103,1	101,1	98,0	103,2
M	95,6	104,2	102,6	102,5	102,8	101,5	109,0
A	82,8	91,0	96,4	105,5	96,3	94,8	93,3
M	84,8	101,8	104,1	106,2	101,1	101,1	106,5
J	92,4	102,4	102,9	104,9	104,5	100,5	110,4
J	92,9	101,7	104,7	108,2	104,4	104,3	107,2
A	94,0	106,0	107,8	105,8	100,0	103,5	108,5
S	100,9	106,7	105,2	108,3	106,8	107,0	112,5
O	104,2	112,5	115,8	119,1	111,8	112,9	117,0*
N	108,2	110,7	114,4	111,7	109,8	115,5	120,4
D	85,3	84,8	83,7	86,9	85,3	90,6	94,3 1/

Year	91,7	100,0	101,5	104,3	101,1	101,4	105,9

Seasonally adjusted indices							
J	87,5	96,5	99,1	105,6	104,8	100,8	102,6
F	88,3	99,3	98,6	105,1	102,8	99,7	104,8
M	91,1	100,0	99,5	100,3	101,1	100,0	107,7
A	88,8	97,3	102,2	111,1	101,3	99,7	98,3
M	85,2	101,6	103,9	105,4	100,1	100,3	105,7
J	91,3	101,1	101,5	103,2	102,8	99,0	108,6
J	91,6	99,9	102,4	105,6	101,7	101,6	104,3
A	90,9	102,6	104,6	103,0	97,7	101,5	106,6
S	95,8	101,4	100,2	103,1	101,9	102,2	107,2
O	94,1	101,3	103,3	106,3	100,3	101,6	105,6

N	97,2	99,8	103,1	101,0	99,4	104,7	109,3
D	98,1	98,2	98,8	102,3	100,3	106,8	111,4

* 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		
			December	November	December1/	December	November	December
			1999	2000		1999	2000	
Food and food products	10,7	98,7	91,5	114,0	90,8	98,2	101,4	98,5
Meat, fish, fruit etc.	2,8	111,1	113,7	115,5	110,7	115,4	110,1	112,3
Dairy products	1,4	89,3	103,0	103,3	95,8	94,4	90,5	87,8
Grain mill products	2,1	91,0	92,0	96,3	88,8	91,3	91,7	88,0
Other food products	4,4	97,3	73,5	124,7	77,5	91,7	103,9	98,0
Beverages	4,6	93,2	130,6	104,4	118,9	97,3	88,9	88,8
Total textiles	2,9	94,0	67,8	101,9	64,4	100,1	90,9	94,6
Textiles	1,7	85,1	58,4	89,3	53,2	88,7	82,0	80,4
Other textile products	1,2	106,5	81,0	119,7	80,3	116,2	103,4	114,6
Total wearing apparel	3,6	82,7	66,4	98,8	63,4	89,4	82,9	84,7
Knitted, crocheted articles	0,6	73,6	61,6	79,8	47,5	91,4	73,8	70,5
Wearing apparel	3,0	84,5	67,4	102,6	66,6	89,0	84,7	87,5
Tanning and dressing of leather	0,4	126,5	95,0	161,8	100,2	133,9	134,6	140,2
Footwear	0,9	65,6	46,1	73,1	45,1	66,5	60,8	64,6
Wood and products of wood	1,9	119,2	87,6	135,4	87,8	117,6	117,9	118,1
Sawmilling and planing of wood	0,8	104,1	81,4	113,1	71,9	109,8	99,4	97,6
Products of wood	1,2	129,1	91,7	150,0	98,2	122,7	130,1	131,6
Paper and paper products	5,3	105,3	96,8	110,2	103,2	102,7	103,9	108,7
Total publishing and printing	4,1	90,1	83,1	101,9	78,9	92,6	89,5	87,4
Publishing	1,5	97,8	95,1	108,7	97,0	95,4	99,5	97,4
Printing, recorded media	2,6	85,8	76,4	98,1	68,8	91,0	83,9	81,9
Coke and refined petroleum products	4,2	107,2	103,3	108,9	106,6	103,9	106,5	107,2
Basic chemicals	4,5	134,9	130,7	171,5	140,0	136,2	144,6	146,1
Other chemical products	6,2	101,0	89,1	112,3	80,9	108,8	99,3	98,6
Rubber products	1,4	98,7	65,8	114,4	68,4	97,8	105,0	102,5
Plastic products	3,1	89,2	77,5	103,1	76,5	102,4	88,3	100,4
Glass and glass products	1,0	88,5	73,2	113,6	80,3	80,5	92,4	88,1
Other non-metallic mineral products	3,5	90,0	64,4	101,1	71,6	87,5	92,1	96,7
Basic iron and steel products	7,6	116,5	93,6	120,5	102,8	108,1	120,9	119,7
Basic precious and non-ferrous metal products	3,2	163,4	172,5	171,1	176,2	169,9	169,2	172,3
Fabricated metal products	7,0	103,3	75,6	122,5	89,3	95,4	107,0	112,2
Structural metal products	2,4	90,5	66,5	108,8	84,8	77,5	90,1	98,8

Other fabricated metal products	4,6	109,9	80,2	129,5	91,6	104,6	115,7	119,2
Total machinery and equipment	5,8	98,9	81,6	110,4	92,2	99,0	114,9	111,0
General purpose machinery	2,5	110,9	81,6	110,8	101,3	103,8	120,1	127,7
Special purpose machinery	2,9	86,2	81,3	106,7	85,5	92,5	110,6	95,7
Household appliances	0,4	116,9	83,4	135,1	83,8	116,2	113,9	116,4
Electrical machinery, apparatus	3,4	102,2	78,4	106,4	93,2	99,9	99,3	118,4
Radio, television and communication apparatus	1,0	120,4	108,6	102,4	98,5	132,0	97,7	119,3
Professional equipment	0,5	80,8	64,1	105,3	69,0	79,5	98,7	85,4
Motor vehicles; trailers; parts and accessories	8,0	124,3	78,0	152,1	94,4	123,7	135,9	148,2
Motor vehicles	4,5	114,9	70,9	129,0	85,1	111,7	117,3	132,6
Bodies for motor vehicles; trailers and semi-trailers	0,5	58,9	45,4	75,2	46,0	58,8	62,1	59,2
Parts and accessories	3,0	150,3	94,6	200,9	117,1	153,7	177,5	188,0
Other transport equipment	1,0	113,2	98,0	115,6	113,5	109,8	122,8	126,5
Furniture	1,6	100,5	59,0	139,7	74,6	89,3	112,8	113,1
Other manufacturing divisions	2,6	110,3	93,9	150,3	73,6	147,2	122,6	105,1
Total	100,0	105,9	90,6	120,4	94,3	106,8	109,3	111,4

* Revised
1/ Preliminary

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

Month	1994	1995	1996	1997	1998	1999	2000*
Actual values							
J	16 267 098	19 206 220	21 803 249	25 254 480	25 913 926	26 410 458	28 477 807
F	19 815 926	24 414 317	26 328 500	29 866 793	29 901 544	30 607 558	35 109 412
M	22 056 191	26 712 878	28 188 286	29 866 272	32 190 538	32 788 344	37 905 018
A	19 132 660	22 897 368	26 231 967	30 438 604	29 758 879	30 508 382	32 691 508
M	19 723 817	25 806 431	28 293 052	30 626 091	30 352 835	32 737 449	37 138 920
J	22 055 323	26 204 689	28 261 416	30 575 542	31 723 893	33 126 289	38 709 518
J	22 251 097	25 613 126	28 378 392	31 169 707	31 732 667	33 429 319	36 279 821
A	21 957 670	27 064 919	29 568 761	31 400 042	30 810 619	33 740 922	38 973 783
S	23 954 300	27 737 968	29 549 724	31 344 644	32 896 327	35 884 855	39 843 443
O	25 209 944	29 294 559	33 070 022	35 902 602	34 970 472	37 425 965	41 701 400
N	26 275 416	29 960 074	33 084 713	33 709 581	34 300 610	38 884 753	43 811 643
D	20 667 319	23 877 458	26 338 721	28 128 922	29 016 347	33 021 543	37 705 076 1/
Year	259 366 761	308 790 007	339 096 803	368 283 280	373 568 657	398 565 837	448 347 349

Seasonally adjusted values															
J	19 815 257	23 536 465	26 441 815	30 577 918	31 172 137	31 730 428	34 127 407	F	20 117 070	24 779 727	26 805 359	30 500 763	30 595 440	31 421 707	35 994 031
M	20 739 519	25 280 794	26 867 262	28 697 827	30 979 257	31 629 163	36 482 636	A	20 323 770	24 276 097	27 712 529	32 059 581	31 356 290	32 160 324	34 529 761
M	20 156 738	26 140 926	28 444 979	30 715 150	30 400 927	32 840 916	37 237 190	J	21 895 100	25 970 450	28 042 552	30 256 593	31 352 668	32 775 300	38 149 177
J	22 165 699	25 522 751	28 347 659	31 115 718	31 722 599	33 416 736	36 287 333	A	21 224 840	26 225 821	28 817 781	30 756 424	30 361 149	33 353 483	38 616 815
A	21 224 840	26 225 821	28 817 781	30 756 424	30 361 149	33 353 483	38 616 815	S	22 765 411	26 518 688	28 316 719	30 089 544	31 594 210	34 524 941	38 227 014
S	22 765 411	26 518 688	28 316 719	30 089 544	31 594 210	34 524 941	38 227 014	O	22 692 454	26 229 069	29 585 237	32 191 773	31 346 202	33 723 071	37 827 578
O	22 692 454	26 229 069	29 585 237	32 191 773	31 346 202	33 723 071	37 827 578	N	23 544 922	26 880 087	29 769 867	30 385 038	30 899 522	35 051 358	39 694 640
N	23 544 922	26 880 087	29 769 867	30 385 038	30 899 522	35 051 358	39 694 640	D	23 364 611	26 777 740	29 268 078	30 840 726	31 362 437	35 823 907	41 028 363
D	23 364 611	26 777 740	29 268 078	30 840 726	31 362 437	35 823 907	41 028 363								

* 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		
		December	November	December 1/	December	November	December
		2000	1999	2000	1999	2000	
Food and food products	59 067 559	4 993 674	5 690 056	5 103 477	4 884 617	5 149 321	4 979 368
Meat, fish, fruit etc.	17 503 055	1 522 430	1 578 192	1 553 560	1 493 968	1 460 648	1 510 591
Dairy products	7 226 662	679 257	714 902	641 223	618 796	617 115	586 309
Grain mill products	15 226 053	1 321 568	1 317 249	1 315 130	1 275 550	1 253 690	1 266 535
Other food products	19 111 789	1 470 419	2 079 713	1 593 564	1 496 303	1 817 868	1 615 933
Beverages	20 392 538	2 503 586	1 864 897	2 534 661	1 747 157	1 659 322	1 796 907
Total textiles	10 186 316	631 803	934 370	636 804	878 818	836 053	879 825
Textiles	6 470 027	382 168	584 226	377 569	562 263	533 375	550 289
Other textile products	3 716 289	249 635	350 144	259 235	316 555	302 678	329 536
Total wearing apparel	10 622 115	806 441	1 023 386	794 081	1 011 631	840 021	989 018
Knitted, crocheted articles	1 696 422	111 008	150 797	94 351	161 951	136 354	137 278
Wearing apparel	8 925 693	695 433	872 589	699 730	849 680	703 667	851 740
Tanning and dressing of leather	2 756 952	167 842	276 852	206 215	241 533	231 757	294 650
Footwear	2 267 448	120 684	216 412	121 106	174 255	170 062	174 362
Wood and products of wood	9 102 693	592 536	894 610	607 939	743 889	785 335	763 453
Sawmilling and planing of wood	2 587 040	169 984	242 655	166 212	212 882	213 079	209 384
Products of wood	6 515 653	422 552	651 955	441 727	531 007	572 256	554 069
Paper and paper products	23 431 927	1 777 623	2 258 474	2 027 547	1 878 929	2 089 573	2 132 786
Total publishing and printing	12 041 864	910 109	1 187 689	933 018	981 758	1 016 340	1 002 532
Publishing	4 674 838	366 170	434 408	401 048	370 138	401 785	404 522

Printing, recorded media	7 367 026	543 939	753 281	531 970	611 620	614 555	598 010
Coke and refined petroleum products	31 835 515	2 171 678	3 166 092	3 096 306	2 166 858	3 002 772	3 097 954
Basic chemicals	22 107 987	1 829 302	2 303 493	1 977 222	1 876 368	1 904 718	2 046 624
Other chemical products	26 460 183	2 001 341	2 539 375	2 102 903	2 204 990	2 254 916	2 308 164
Rubber products	4 722 917	298 197	464 275	312 174	366 800	436 566	388 997
Plastic products	10 659 968	789 547	1 074 539	805 872	978 800	905 385	995 256
Glass and glass products	2 280 861	157 321	263 851	187 923	178 334	197 678	211 894
Other non-metallic mineral products	10 323 754	605 597	1 015 220	718 698	812 170	905 574	962 416
Basic iron and steel products	33 171 539	2 184 756	3 031 311	2 686 385	2 393 922	2 940 021	2 936 639
Basic precious and non-ferrous metal products	15 567 625	1 293 407	1 408 725	1 656 135	1 210 630	1 370 444	1 530 536
Fabricated metal products	24 818 511	1 524 553	2 479 524	1 902 762	1 829 105	2 212 919	2 223 446
Structural metal products	7 834 649	480 837	785 740	656 837	478 309	708 283	607 100
Other fabricated metal products	16 983 862	1 043 716	1 693 784	1 245 925	1 350 796	1 504 636	1 616 346
Total machinery and equipment	19 748 970	1 465 009	1 806 310	1 786 836	1 623 630	1 776 580	1 966 290
General purpose machinery	9 237 150	645 606	842 864	860 934	694 518	815 721	928 777
Special purpose machinery	8 327 775	682 816	746 957	783 315	744 037	781 671	845 455
Household appliances	2 184 045	136 587	216 489	142 587	185 075	179 188	192 058
Electrical machinery, apparatus	13 222 703	867 488	1 278 026	1 086 398	1 061 474	1 169 357	1 317 072
Radio, television and communication apparatus	4 631 529	339 697	304 224	302 830	405 955	316 040	358 930
Professional equipment	1 387 904	85 127	145 044	110 932	103 778	131 832	135 433
Motor vehicles; trailers; parts and accessories	53 415 385	3 086 636	5 664 813	4 035 146	4 118 622	5 225 565	5 367 392
Motor vehicles	37 494 388	2 274 052	3 847 087	2 802 226	2 929 371	3 587 181	3 577 893
Bodies for motor vehicles; trailers and semi-trailers	1 706 284	103 640	176 924	139 092	127 881	152 204	171 026
Parts and accessories	14 214 713	708 944	1 640 802	1 093 828	1 061 370	1 486 180	1 618 473
Other transport equipment	3 241 420	209 389	223 123	291 828	243 797	223 913	339 847
Furniture	6 300 433	410 189	749 764	436 919	539 430	581 048	577 361
Other manufacturing divisions	14 580 733	1 198 011	1 547 188	1 242 959	1 166 657	1 361 528	1 251 211
Total	448 347 349	33 021 543	43 811 643	37 705 076	35 823 907	39 694 640	41 028 363

* Revised
1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	December	November	December 1/	December	November	December
	1999	2000		1999	2000	
Spinning, weaving and						

finishing of textiles	202 355	186 381	170 880	223 295	186 343	188 861
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	28 132	21 428	28 353	29 329	25 663	29 635
Other textile articles	50 764	57 679	52 799	62 028	60 622	64 330
Knitted and crocheted fabrics and articles	145 570	149 944	141 354	150 229	151 005	145 781
Wearing apparel	706 323	633 274	604 607	768 615	617 312	656 230
Sawmilling and preserving of timber	21 002	27 762	28 339	22 554	29 047	30 250
Veneer sheets, plywood, laminboard, etc.	20 155	26 269	23 253	23 279	24 075	26 785
Builders' carpentry and joinery	63 094	53 819	45 573	65 500	48 256	47 182
Pulp, paper and paperboard	202 475	576 078	462 944	209 921	532 186	480 965
Corrugated paper and paper- board and containers	394 719	422 493	395 943	378 565	395 420	378 728
Paints, varnishes and coatings	27 717	26 903	21 158	23 818	19 688	17 873
Basic iron and steel products	3 058 734	3 074 653	2 954 841	3 042 809	3 027 753	2 942 894
Steel pipe and tube mills	175 863	162 843	180 093	168 017	160 584	170 833
Basic precious and non- ferrous metal products	975 955	1 201 858	1 247 565	1 032 088	1 213 886	1 325 325
Metal structures, parts	1 130 860	1 163 946	1 081 212	1 183 135	1 154 617	1 134 202
Cutlery, hand tools and general hardware	37 394	30 999	19 480	44 113	29 819	23 154
Metal containers, e.g. cans and tins	62 563	83 314	81 998	60 771	79 266	80 190
Cables, wire products, springs	40 903	64 674	47 579	49 802	64 171	58 112
Metal fasteners	54 168	47 664	47 830	55 114	48 432	48 479
All other metal products	422 093	613 551	594 026	455 499	630 923	637 869
Domestic appliances	40 398	40 625	39 097	40 932	43 079	39 668
Electric motors, generators and transformers	450 439	450 561	449 379	476 056	466 968	475 291
Insulated wire and cables	133 619	267 712	288 563	159 154	299 046	344 999
Accumulators, primary cells and primary batteries	15 847	13 124	13 898	16 794	13 796	14 583
Television, radio and communication apparatus	755 306	900 448	903 402	803 185	929 713	967 625
Motor vehicles	1 741 403	2 411 621	2 262 133	1 948 644	2 455 312	2 496 505
Parts and accessories for motor vehicles	254 206	301 208	357 030	262 603	342 588	367 997
Furniture	198 455	267 259	233 650	241 732	245 135	284 081

* Revised

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