

Manufacturing: production and sales

March 2003

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

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

Key figures as at the end of March 2003

Actual estimates		March 2003	% change between March 2002 and March 2003	% change between January 2002 to March 2002 and January 2003 to March 2003
of	Physical volume of manufacturing production index (2000=100)	108,8	-0,7	+0,4
sales	Total value of of manufactured products (R million)	52 746,8	+7,1	+9,0

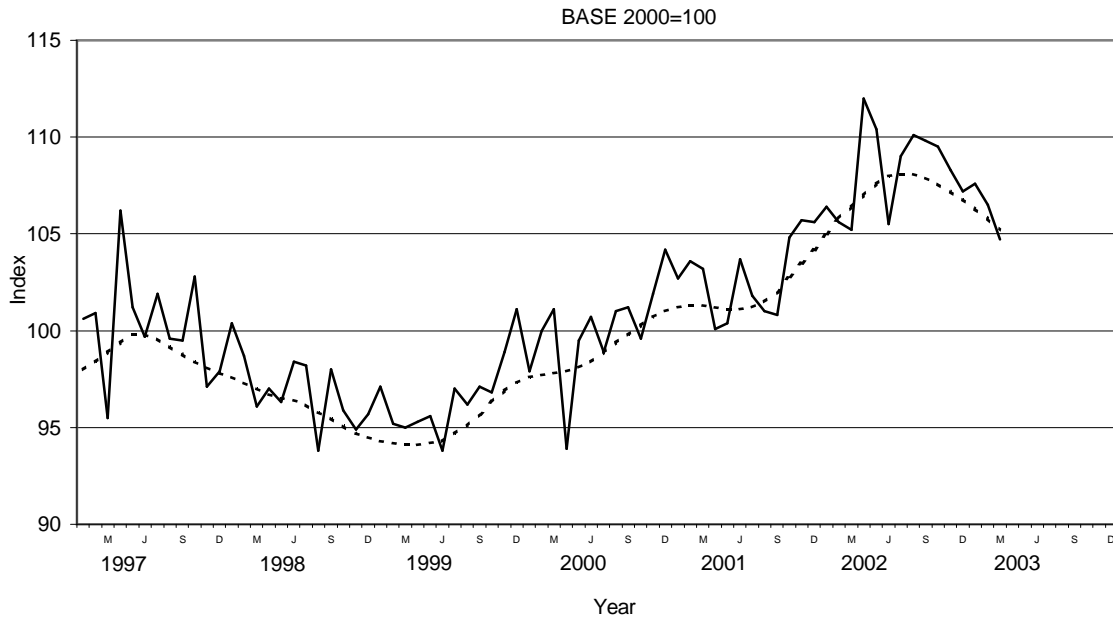
Seasonally adjusted estimates		March 2003	% change between February 2003 and March 2003	% change between October 2002 to December 2002 and January 2003 to March 2003
	Physical volume of manufacturing production index (2000=100)	104,7	-1,7	-1,9
sales	Total value of of manufactured products (R million)	50 824,4	-2,1	-2,0

Key findings as at the end of March 2003

MANUFACTURING PRODUCTION DECREASES

Manufacturing production for the first quarter of 2003 reflected a decrease of 1,9% after seasonal adjustment compared with the fourth quarter of 2002. Lower production was reported by 16 of the 27 manufacturing divisions.

The major contributors to the decrease of 1,9% after seasonal adjustment in the total manufacturing production were the coke and refined petroleum products and machinery and equipment divisions (each contributing -0,4 of a percentage point to total manufacturing production), followed by the fabricated metal products and motor vehicles, trailers, parts and accessories (each contributing -0,3 of a percentage point), 'other' non-metallic mineral products and 'other' transport equipment divisions (each contributing -0,2 of a percentage point) (cf. table A).



Source: Stats SA

_____ Seasonally adjusted - - - - Trend cycle

Table A - Contribution of the production by the different manufacturing divisions to the total manufacturing production (Base 2000=100)

Manufacturing Divisions	Percentage contribution to the total manufacturing production in the base year 2000 (Weights)	Average seasonally adjusted production index for the three months January 2003 to March 2003	Quarterly percentage change (January 2003 to March 2003 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	101,7	+1,1	+0,1
Beverages	4,6	114,2	+1,3	+0,1
Total textiles	2,9	107,1	-2,8	-0,1
Total wearing apparel	3,6	105,4	+1,8	+0,1
Tanning and dressing of leather	0,4	84,7	-11,0	-0,1
Footwear	0,9	77,5	-11,0	-0,1
Wood and products of wood	1,9	116,2	+1,0	+0,0
Paper and paper products	5,3	99,3	+1,7	+0,1
Total publishing and printing	4,1	94,5	+1,1	+0,1
Coke and refined petroleum products	4,2	93,1	-8,5	-0,4
Basic chemicals	4,5	110,9	-0,4	-0,0
Other chemical products	6,2	110,4	-0,1	-0,0
Rubber products	1,4	100,1	-8,2	-0,1
Plastic products	3,1	120,4	-3,1	-0,1
Glass and glass products	1,0	116,6	+0,7	+0,0
Other non-metallic mineral products	3,5	102,1	-7,2	-0,2
Basic iron and steel products	7,6	114,2	+1,9	+0,1
Basic precious and non-ferrous metal products	3,2	100,0	+0,3	+0,0
Fabricated metal products	7,0	116,4	-3,9	-0,3
Total machinery and equipment	5,8	113,3	-7,5	-0,4
Electrical machinery, apparatus	3,4	102,7	-2,1	-0,1
Radio, television and communication apparatus	1,0	80,8	-0,4	-0,0
Professional equipment	0,5	132,7	+7,9	+0,0
Motor vehicles; trailers; parts and accessories	8,0	104,8	-3,6	-0,3
Other transport equipment	1,0	100,9	-15,6	-0,2
Furniture	1,6	102,8	-7,6	-0,1
Other manufacturing divisions	2,6	101,3	+0,3	+0,0
Total	100,0	106,3	-1,9	-1,9

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.

Adjustment of the base period of the index of physical volume of manufacturing production from 1995=100 to 2000=100

Following international practice of re-basing indices every five years, the base year of the index of physical volume of manufacturing production has been changed from 1995=100 to 2000=100 with effect from the December 2002 statistical release P3041.2.

The base period is the reference point of an index and is usually set at 100. Base periods have to be chosen carefully because different results can be obtained with different base periods. The following are important criteria for selecting base periods:

- The base period must be recent to ensure that as many as possible of the components of the index are included in both the base period and the current period. The more recent the base period, the more comparable the current indices are with those of the base period.
- Due to a large number of indices being published regularly, it is useful if they all have a common base period. The internationally accepted current base period is 2000.

To compare different indices or to compare the movements in a specific index over a period, it often becomes necessary to shift the base period of an index.

Each index was transformed to the new base period by dividing each monthly index (base 1995=100) from January 1990, by the average annual index for the year 2000 and multiplying the result by 100.

The re-basing of indices was done on all the major groups of manufacturing, retaining the current weights based on the 1996 Census of Manufacturing. The average indices of the major groups for the year 2000 (cf. table E) were equated to 100. The obtained conversion factor of each major group was implemented to re-base the monthly indices since January 1990 per major group.

SALES OF MANUFACTURED PRODUCTS DECREASE

The total value of sales of manufactured products at current prices for the first quarter of 2003 reflected a decrease of 2,0% (-R3 144million) after seasonal adjustment compared with the fourth quarter of 2002. Lower manufacturing sales were reported by 20 of the 27 manufacturing divisions during this period. However, the actual total value of sales of manufactured products at current prices for the first quarter of 2003 reflected an increase of 9,0% (+R12 241 million) compared with the first quarter of 2002. Higher manufacturing sales were reported by 24 of the 27 manufacturing divisions.

The decrease of 2,0% after seasonal adjustment in the total value of sales of manufactured products at current prices for the first quarter of 2003 compared with fourth quarter of 2002 was mainly due to large decreases reported by the basic precious and non-ferrous metal products (-10,5% or -R586 million), coke and refined petroleum products (-6,9% or -R781 million), motor vehicles, trailers, parts and accessories (-4,8% or -R983 million) and fabricated metal products (-4,1% or -R370 million) divisions (cf. table B).

The major contributors to the increase of 9,0% in the actual value of sales of manufactured products at current prices for the first quarter of 2003 compared with the first quarter of 2002 were the basic iron and steel products (+1,8 percentage points or +R2 375 million), food and food products (+1,6 percentage points or +R2 130 million), fabricated metal products (+0,7 of a percentage point or +R945 million), beverage (+0,6 of a percentage point or +R854 million), 'other' chemical products (+0,6 of a percentage point or +R771 million), machinery and equipment (+0,5 of a percentage point or +R726 million) and motor vehicles, trailers, parts and accessories (+0,5 of a percentage point or +R657 million) divisions (cf. table C).

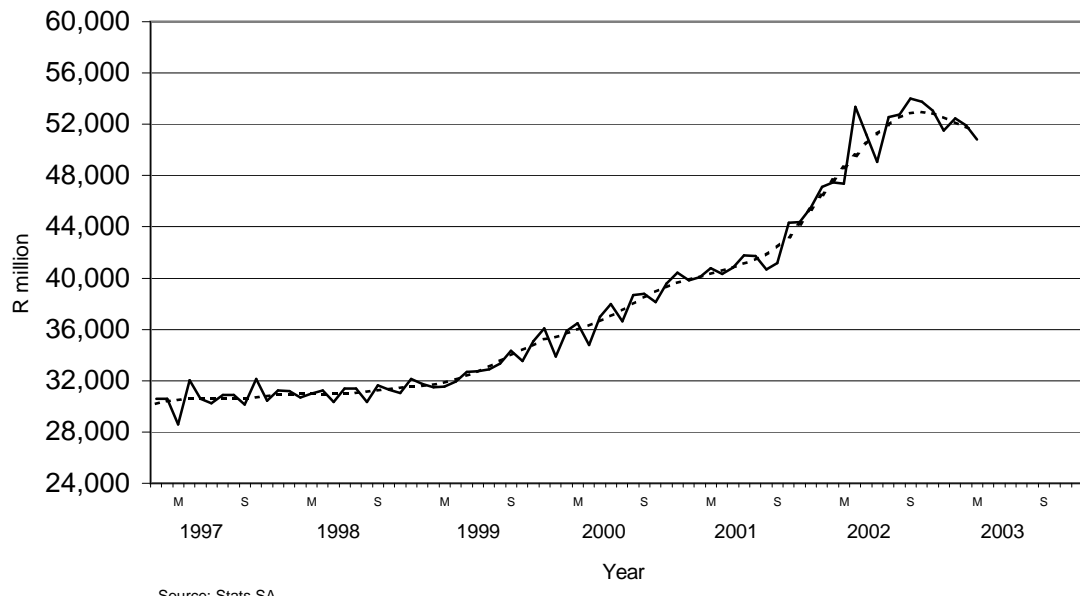
Table B - Contribution of the manufacturing divisions to the total value of seasonally adjusted sales of manufactured products

Manufacturing Divisions	Seasonally adjusted sales		Percentage change between October 2002 to December 2002 and January 2003 to March 2003	Difference in seasonally adjusted sales of manufacturing divisions between October 2002 to December 2002 and January 2003 to March 2003
	January 2003 to March 2003	October 2002 to March 2003		
	R'000			R'000
Food and food products	21 470 112		-0,5	106 379
Beverages	7 029 519		-0,4	28 603
Total textiles	3 383 410		-3,4	119 938
Total Wearing apparel	3 406 399		+1,0	35 346
Tanning and dressing of leather	794 857		-2,3	19 104
Footwear	581 267		-3,7	22 205
Wood and products of wood	3 529 695		+4,6	154 310
Paper and paper products	7 431 062		+1,2	88 146
Total publishing and printing	3 521 475		-2,1	75 441
Coke and refined petroleum products	10 573 862		-6,9	781 383
Basic chemicals	7 485 171		-1,6	123 499
Other chemical products	9 155 704		+1,4	128 916
Rubber products	1 627 023		-9,0	160 571
Plastic products	3 965 668		-0,9	35 631
Glass and glass products	846 397		+2,0	16 829
Other non-metallic mineral products	3 773 452		-3,0	116 959
Basic iron and steel products	13 373 312		+6,4	800 424
Basic precious and non-ferrous metal products	4 975 682		-10,5	586 371
Fabricated metal products	8 746 823		-4,1	370 012
Total machinery and equipment	6 862 802		-2,6	183 464
Electrical machinery, apparatus	4 246 479		-4,8	214 310
Radio, television and communication apparatus	1 292 013		-2,1	27 490
Professional equipment	540 056		+1,6	8 621
Motor vehicles; trailers; parts and accessories	19 433 140		-4,8	983 472
Other transport equipment	986 578		-13,9	159 731
Furniture	1 840 117		-3,0	57 766
Other manufacturing industries	4 303 904		-4,5	203 952
Total	155 175 978		-2,0	3 143 689

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 January 2002 to March 2002	Percentage change between January 2002 and January 2003 to March 2003	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions between January 2002 to March 2002 and January 2003 to March 2003
				R'000
Food and food products	13,3	11,8	1,6	2 129 684
Beverages	4,5	14,1	0,6	854 151
Total textiles	2,1	7,1	0,1	201 577
Total Wearing apparel	1,9	19,3	0,4	490 359
Tanning and dressing of leather	0,5	7,3	0,0	52 671
Footwear	0,3	9,0	0,0	38 384
Wood and products of wood	2,0	21,4	0,4	579 520
Paper and paper products	5,1	3,8	0,2	268 970
Total publishing and printing	2,2	11,5	0,3	348 099
Coke and refined petroleum products	7,3	0,9	0,1	87 748
Basic chemicals	5,3	0,7	0,0	47 379
Other chemical products	5,9	9,6	0,6	771 467
Rubber products	1,2	-0,3	-0,0	-4 588
Plastic products	2,4	15,6	0,4	512 408
Glass and glass products	0,5	8,3	0,0	58 127
Other non-metallic mineral products	2,3	12,5	0,3	386 940
Basic iron and steel products	7,9	22,2	1,8	2 374 595
Basic precious and non-ferrous metal products	3,4	-3,0	-0,1	-138 701
Fabricated metal products	5,4	12,8	0,7	945 282
Total machinery and equipment	4,3	12,3	0,5	726 327
Electrical machinery, apparatus	2,8	8,0	0,2	303 977
Radio, television and communication apparatus	0,8	30,9	0,2	336 068
Professional equipment	0,3	12,7	0,0	59 985
Motor vehicles; trailers; parts and accessories	13,3	3,6	0,5	656 520
Other transport equipment	0,8	-6,6	-0,1	-75 176
Furniture	1,1	5,5	0,1	79 901
Other manufacturing divisions	3,0	3,7	0,1	149 343
Total	100,0	9,0	9,0	12 241 017

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.



Source: Stats SA

———— Seasonally adjusted - - - - - Trend cycle

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Notes

Forthcoming issues

Issue

Expected release date

April 2003	10 June 2003
May 2003	8 July 2003
June 2003	12 August 2003
July 2003	9 September 2002
August 2003	7 October 2003
September 2003	11 November 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 historical 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 with international practice, the indices have to be re-based every five years to a new base year. The indices in this statistical release have been calculated on the basis of 2000=100. Both actual and seasonally adjusted figures are presented.
 - 3 In order to improve timeliness, some information for the current month (March 2003) 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 and major group 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 5).
- 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 of 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 three periods 1990 to 1992, 1993 to 1995 and 1996 to 2002.).
- Re-basing**
- 8 In accordance with international practice, the indices have to be re-based 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 December 2002 statistical release. 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 2 400 manufacturing establishments.

11 The above-mentioned measurement method in paragraph 8 was followed in 37 of the 45 major groups. On account of certain considerations more appropriate indicators were used for the eight 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, motor vehicles, bodies for motor vehicles and parts and accessories for motor vehicles. 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, motor vehicles, bodies for motor vehicles and parts and accessories for motor vehicles are calculated on the basis of physical quantities. This method based on physical quantities is 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). For publication purposes, the major group tobacco products is included under 'Other' manufacturing industries.

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	<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 of 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	16	<p>Seasonally adjusted estimates of all major groups 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	17	<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	18	<p>Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.</p>
Historical data	19	<p>More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups for the period January 1990 to November 2002 is available in statistical release P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002.</p>
	20	<p>More comprehensive detail on the method of calculation and historical data in respect of the value of sales for the period January 1990 to September 1999 was published on 8 December 1999 in statistical release P3041.4.</p>
Related publications	21	<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: 2000=100, January 1990 to November 2002. • 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** 22 In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as a computer printout, diskette or CD. Generally a charge is made for providing unpublished statistics.
- Rounding-off of figures** 23 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** 24 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.
- 25 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 March 2003 is 77,2%.
The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for March 2003

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	306	74,5
Beverages	62	82,3
Textile	104	95,2
Total wearing apparel	125	82,4
Tanning and dressing of leather	24	87,5
Footwear	21	85,7
Wood and products of wood	110	64,5
Paper and paper products	92	78,3
Total publishing and printing	86	70,9
Coke and refined petroleum products	28	85,7
Basic chemicals	73	83,6
Other chemical products	107	73,8
Rubber products	21	76,2
Plastic products	92	72,8
Glass and glass products	12	83,3
Other non-metallic mineral products	126	86,5
Basic iron and steel products	39	89,7
Basic precious and non-ferrous metal products	22	81,8
Fabricated metal products	219	79,0
Total machinery and equipment	182	76,9
Electrical machinery, apparatus	77	85,7
Radio, television and communication apparatus	22	68,2
Professional equipment	25	80,0
Motor vehicles; trailers; parts and accessories	130	71,5
Other transport equipment	36	83,3
Furniture	70	57,1
Other manufacturing industries	79	62,0
Total	2 290	77,2

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 2000. 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;• 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 1 - Indices of the physical volume of manufacturing production: Total

Base 2000 = 100							
Month	1997	1998	1999	2000	2001	2002	2003
Actual indices							
J	85,3	85,8	83,6	85,2	89,5	92,7	93,6
F	99,1	97,2	93,7	98,7	102,0	104,5	105,5
M	98,4	98,9	97,9	104,8	107,3	109,6	108,8 1/
A	100,9	92,3	90,7	89,0	94,6	105,3	
M	101,7	96,8	95,9	99,9	100,8	110,7	
J	100,9	99,6	94,8	102,1	105,0	106,7	
J	103,9	99,9	98,3	100,1	102,7	109,9	
A	101,9	95,6	97,7	102,5	102,6	111,9	
S	104,3	102,3	100,9	104,8	104,0	113,1	
O	115,2	106,9	107,3	109,8	115,5	120,6	
N	107,9	105,5	109,9	113,6	118,1	121,1	
D	83,5	81,8	86,3	89,5	91,3	92,6	
Year	100,3	96,9	96,4	100,0	102,8	108,2	
Seasonally adjusted indices							
J	100,6	100,4	97,1	97,9	102,5	106,2	107,6
F	100,9	98,7	95,1	100,0	103,2	105,4	106,5
M	95,6	96,1	95,1	101,4	103,4	105,4	104,7
A	106,2	97,1	95,4	93,9	100,2	112,1	
M	101,2	96,3	95,6	99,5	100,4	110,4	
J	99,7	98,5	93,8	100,8	103,8	105,5	
J	101,9	98,2	96,9	98,9	101,8	109,0	
A	99,5	93,8	96,2	101,0	101,1	110,1	
S	99,5	98,0	97,1	101,2	100,8	109,8	
O	102,8	95,9	96,8	99,6	104,8	109,5	
N	97,1	94,9	98,8	101,9	105,7	108,3	
D	97,8	95,6	101,0	104,0	105,5	107,2	

* Revised

1/ Preliminary

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

Base 2000 = 100

Manufacturing divisions and major groups	Weights	Year	Actual indices			Seasonally adjusted indices			
			2002	March	February	March 1/	March	February	March
				2002	2003		2002	2003	
					March	February		March	February
Food and food products	10,7	101,6	100,2	99,1	97,8	101,9	106,3	99,3	
Meat, fish, fruit etc.	2,8	113,1	115,0	115,8	120,8	110,3	113,7	116,0	
Dairy products	1,4	100,7	108,6	94,6	101,2	102,6	97,6	95,2	
Grain mill products	2,1	113,6	116,2	94,8	102,9	115,8	101,8	102,4	
Other food products	4,4	88,7	80,5	91,7	79,5	89,7	106,4	88,3	
Beverages	4,6	112,4	118,8	116,6	130,1	109,5	116,0	119,6	
Total textiles	2,9	111,6	117,9	101,8	105,8	110,1	101,4	98,4	
Textiles	1,7	110,4	114,7	102,1	106,5	107,3	102,0	99,0	
Other textile products	1,2	113,3	122,5	101,3	104,7	114,0	100,6	97,6	
Total wearing apparel	3,6	101,9	104,3	114,6	104,5	94,6	114,4	95,1	
Knitted, crocheted articles	0,6	111,2	114,5	112,6	119,7	102,9	111,6	107,9	
Wearing apparel	3,0	100,0	102,3	115,0	101,5	92,9	115,0	92,6	
Tanning and dressing of leather	0,4	96,9	97,3	87,0	82,7	91,8	85,2	78,2	
Footwear	0,9	82,0	74,1	75,2	73,0	72,8	78,3	72,5	
Wood and products of wood	1,9	110,6	114,5	112,9	118,8	109,0	112,8	113,6	
Sawmilling and planing of wood	0,8	108,3	115,3	109,5	118,3	107,1	106,7	109,7	
Products of wood	1,2	112,1	113,9	115,1	119,2	110,2	116,7	116,1	
Paper and paper products	5,3	103,1	110,5	92,6	101,9	106,2	98,2	97,9	
Total publishing and printing	4,1	94,8	95,9	92,1	98,5	92,2	95,8	94,8	
Publishing	1,5	91,3	96,7	88,2	92,7	94,6	89,8	90,7	
Printing, recorded media	2,6	96,8	95,4	94,3	101,8	90,8	99,1	97,1	
Coke and refined petroleum products	4,2	102,5	102,6	92,0	95,0	104,9	95,3	97,1	
Basic chemicals	4,5	119,1	116,5	106,4	107,7	124,3	109,0	114,3	
Other chemical products	6,2	111,5	116,3	109,5	115,0	110,5	110,8	109,3	
Rubber products	1,4	109,9	125,7	107,2	94,7	116,2	94,5	87,4	
Plastic products	3,1	124,3	121,7	125,1	125,7	113,3	119,8	117,1	
Glass and glass products	1,0	118,9	112,1	115,6	113,8	116,1	115,7	117,8	
Other non-metallic mineral products	3,5	104,5	105,7	91,7	109,9	103,8	95,1	108,1	
Basic iron and steel products	7,6	106,0	103,6	109,0	113,3	102,5	115,9	112,1	
Basic precious and non-ferrous metal products	3,2	100,8	101,9	95,2	104,3	98,5	97,9	100,4	
Fabricated metal products	7,0	119,6	116,2	117,1	121,9	113,1	115,7	119,0	
Structural metal products	2,4	116,8	106,8	115,1	116,4	105,1	118,3	115,6	
Other fabricated metal product	4,6	121,1	121,0	118,1	124,7	117,3	114,4	120,8	
Total machinery and equipment	5,8	121,3	137,6	114,8	132,2	120,2	110,3	115,3	
General purpose machinery	2,5	109,3	119,3	94,3	114,8	111,0	92,6	107,7	
Special purpose machinery	2,9	133,4	157,1	132,0	151,4	129,5	124,8	123,7	
Household appliances	0,4	109,4	110,2	118,9	102,1	110,3	115,7	102,0	
Electrical machinery, apparatus	3,4	103,7	103,2	107,0	106,0	98,9	106,6	101,9	
Radio, television and communication apparatus	1,0	76,8	87,8	93,4	92,1	76,5	84,5	79,9	
Professional equipment	0,5	120,8	116,7	134,9	133,9	114,0	132,0	131,9	
Motor vehicles; trailers; parts and accessories	8,0	108,8	104,3	108,4	103,9	99,7	103,1	99,7	
Motor vehicles	4,5	105,5	106,8	102,4	101,2	102,5	97,2	96,9	
Bodies for motor vehicles; trailers and semi-trailers	0,5	102,8	108,2	97,3	103,7	89,1	88,8	85,2	
Parts and accessories	3,0	114,9	99,7	119,5	108,1	97,6	114,6	106,6	
Other transport equipment	1,0	118,2	176,1	105,9	135,1	117,0	104,3	89,2	
Furniture	1,6	107,3	109,0	97,4	95,2	111,2	102,0	97,2	
Other manufacturing divisions	2,6	102,9	78,8	102,6	81,5	80,6	101,7	84,4	
Total	100,0	108,2	109,6	105,5	108,8	105,4	106,5	104,7	

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1/ Preliminary

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

Month	1997	1998	1999	2000	2001	2002 *	2003
Actual values							
J	25 254 480	25 913 926	26 362 762	28 647 234	33 988 164	40 272 591	44 584 208 *
F	29 866 793	29 901 544	30 551 283	34 961 840	39 187 078	46 539 563	50 949 266
M	29 866 272	32 190 538	32 737 212	38 039 203	42 683 525	49 227 081	52 746 778 1/
A	30 438 604	29 758 879	30 447 208	32 651 220	37 828 090	49 699 795	
M	30 626 091	30 352 835	32 680 898	37 038 716	41 146 142	51 640 018	
J	30 575 542	31 723 893	33 054 424	38 710 074	42 743 527	50 252 453	
J	31 169 707	31 732 667	33 262 293	36 234 329	41 174 318	51 790 716	
A	31 400 042	30 810 619	33 586 437	38 992 758	41 164 534	53 396 381	
S	31 344 644	32 896 327	35 703 435	39 916 972	42 295 572	55 324 212	
O	35 902 602	34 970 472	37 386 689	41 775 594	48 601 886	58 800 459	
N	33 709 581	34 300 610	38 843 424	43 881 507	49 478 825	59 108 087	
D	28 128 922	29 016 347	32 992 528	37 256 576	42 207 610	47 485 481	
Year	368 283 280	373 568 657	397 608 593	448 106 023	502 499 271	613 536 837	
Seasonally adjusted values							
J	30 496 159	31 050 664	31 399 714	33 848 844	39 706 258	47 112 587	52 450 249
F	30 493 649	30 590 478	31 308 800	35 744 381	39 984 824	47 456 295	51 901 357
M	28 715 986	30 970 061	31 535 780	36 538 334	41 032 086	47 387 908	50 824 373
A	32 095 995	31 482 597	32 285 775	34 713 273	40 348 643	53 373 491	
M	30 701 884	30 373 352	32 676 659	36 865 692	40 848 124	51 193 901	
J	30 219 628	31 241 392	32 510 821	37 859 750	41 765 956	49 053 157	
J	31 163 194	31 847 444	33 499 131	36 592 751	41 700 172	52 549 648	
A	30 752 923	30 351 192	33 219 850	38 569 467	40 677 745	52 749 549	
S	30 169 435	31 783 183	34 647 904	38 779 244	41 226 987	54 021 893	
O	32 177 965	31 403 835	33 778 513	38 042 755	44 332 516	53 734 955	
N	30 309 947	30 789 539	34 830 866	39 476 457	44 353 475	53 062 633	
D	30 852 301	31 490 236	35 861 666	40 389 396	45 444 201	51 522 078	

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1/ Preliminary

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

Manufacturing divisions and major groups	Year	Actual values			Seasonally adjusted values		
		March	February	March 1/	March	February	March
		2002 *	2003		2002	2003	
		2002			2002		
Food and food products	82 690 957	6 463 847	7 037 203	6 941 458	6 566 438	7 590 124	7 033 903
Meat, fish, fruit etc.	26 328 187	2 090 888	2 100 044	2 266 641	2 088 039	2 262 146	2 274 194
Dairy products	9 221 497	741 045	800 114	844 429	720 849	821 021	820 932
Grain mill products	24 465 379	1 984 096	1 908 066	2 084 003	1 934 357	2 054 434	2 026 754
Other food products	22 675 894	1 647 818	2 228 979	1 746 385	1 823 193	2 452 523	1 912 023
Beverages	26 831 889	2 251 583	2 347 061	2 644 838	2 117 233	2 460 600	2 483 134
Total textiles	13 425 652	1 124 622	1 049 343	1 127 432	1 026 441	1 075 883	1 025 880
Textiles	8 654 162	729 637	708 470	742 400	653 668	714 553	662 823
Other textile products	4 771 490	394 985	340 873	385 032	372 773	361 330	363 057
Total wearing apparel	12 404 617	1 031 865	1 119 706	1 194 177	906 498	1 145 942	1 049 858
Knitted, crocheted articles	2 200 044	173 511	193 826	213 061	152 273	202 930	186 320
Wearing apparel	10 204 573	858 354	925 880	981 116	754 225	943 012	863 538
Tanning and dressing of leather	3 310 031	275 262	254 591	267 669	248 129	255 694	240 350
Footwear	2 185 578	165 421	168 722	169 201	162 031	174 748	167 423
Wood and products of wood	12 676 226	1 042 542	1 075 462	1 228 246	989 478	1 122 718	1 170 059
Sawmilling and planing of wood	3 496 221	292 286	309 939	334 533	271 966	307 622	311 057
Products of wood	9 180 005	750 256	765 523	893 713	717 512	815 096	859 002
Paper and paper products	29 798 377	2 552 200	2 362 849	2 603 414	2 383 650	2 473 763	2 448 478
Total publishing and printing	13 902 770	1 083 467	1 147 896	1 212 570	1 062 138	1 192 273	1 187 867
Publishing	5 309 542	443 503	440 378	474 558	441 031	467 525	472 926
Printing, recorded media	8 593 228	639 964	707 518	738 012	621 107	724 748	714 941
Coke and refined petroleum products	45 408 316	3 260 722	2 978 078	3 702 249	3 496 027	3 121 452	3 969 489
Basic chemicals	31 234 852	2 432 631	2 521 961	2 488 114	2 554 239	2 545 683	2 580 252
Other chemical products	35 473 071	2 966 600	2 952 386	3 237 864	2 780 421	3 064 281	3 040 777
Rubber products	6 678 589	614 574	563 903	517 827	567 120	528 505	475 922
Plastic products	15 136 631	1 181 321	1 348 032	1 365 584	1 108 248	1 346 802	1 282 071
Glass and glass products	3 291 669	243 964	283 568	257 608	264 076	284 688	279 350
Other non-metallic mineral products	14 496 579	1 169 933	1 087 297	1 342 747	1 128 340	1 160 276	1 296 333
Basic iron and steel products	48 571 369	3 731 861	4 466 048	4 462 604	3 594 326	4 526 491	4 326 437
Basic precious and non-ferrous metal products	21 725 348	1 684 379	1 529 177	1 550 157	1 670 862	1 707 168	1 539 827
Fabricated metal products	34 231 948	2 662 053	2 938 995	3 070 615	2 482 239	2 979 235	2 875 419
Structural metal products	10 580 226	771 187	907 333	1 035 096	694 609	976 708	927 517
Other fabricated metal product	23 651 722	1 890 866	2 031 662	2 035 519	1 787 630	2 002 527	1 947 903
Total machinery and equipment	26 790 603	2 491 080	2 301 123	2 749 174	2 127 484	2 401 617	2 321 180
General purpose machinery	11 502 057	982 007	931 907	1 023 513	976 506	1 039 239	1 017 954
Special purpose machinery	12 556 524	1 284 926	1 110 186	1 502 782	932 483	1 109 753	1 086 406
Household appliances	2 732 022	224 147	259 030	222 879	218 494	252 626	216 820
Electrical machinery, apparatus	16 926 563	1 485 289	1 456 659	1 498 651	1 382 375	1 413 086	1 388 727
Radio, television and communication apparatus	4 503 712	403 632	592 243	474 036	342 922	484 402	403 054
Professional equipment	2 028 861	161 874	178 180	190 546	157 487	174 619	186 092
Motor vehicles; trailers; parts and accessories	80 372 512	6 543 642	6 580 235	6 399 225	5 991 206	6 253 269	5 878 854
Motor vehicles	56 373 234	4 607 464	4 486 725	4 350 010	4 171 972	4 258 963	3 947 121
Bodies for motor vehicles; trailers and semi-trailers	2 115 216	176 761	172 861	200 910	152 259	175 362	173 549
Parts and accessories	21 884 062	1 759 417	1 920 649	1 848 305	1 666 975	1 818 943	1 758 184
Other transport equipment	4 370 041	522 461	339 810	434 816	359 247	340 542	295 208
Furniture	7 339 791	519 341	556 355	551 194	567 313	606 080	604 866
Other manufacturing divisions	17 730 285	1 160 915	1 712 383	1 064 762	1 351 941	1 471 417	1 273 561
Total	613 536 837	49 227 081	50 949 266	52 746 778	47 387 908	51 901 357	50 824 373

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1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	March	February	March 1/	March	February	March
	2002	2003		2002	2003	
Spinning, weaving and finishing of textiles	278 796	409 161	391 158	272 255	402 607	381 543
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	41 714	60 526	70 613	37 706	55 637	63 597
Other textile articles	67 900	120 252	113 728	65 177	111 997	110 121
Knitted and crocheted fabrics and articles	131 919	130 343	129 916	130 190	125 975	128 040
Wearing apparel	786 231	842 135	836 002	767 792	863 260	814 208
Sawmilling and preserving of timber	20 622	27 683	30 380	19 668	27 032	29 118
Veneer sheets, plywood, laminboard, etc.	22 063	28 876	27 704	23 023	30 697	28 965
Builders' carpentry and joinery	34 766	40 000	40 229	40 370	44 411	46 579
Pulp, paper and paperboard	238 674	244 469	160 079	310 538	277 342	209 740
Corrugated paper and paper-board and containers	309 780	356 335	346 934	323 288	348 084	361 863
Paints, varnishes and coatings	18 999	26 106	30 603	19 442	24 725	30 703
Basic iron and steel products	3 690 033	4 987 671	4 848 624	3 748 873	5 021 002	4 936 939
Steel pipe and tube mills	236 356	409 608	392 534	259 464	443 830	431 516
Basic precious and non-ferrous metal products	1 718 658	1 848 784	1 579 457	1 752 513	1 908 185	1 613 579
Metal structures, parts	1 227 680	1 299 722	1 196 101	1 303 618	1 453 128	1 275 741
Cutlery, hand tools and general hardware	29 180	24 428	17 275	31 102	20 528	18 636
Metal containers, e.g. cans and tins	74 127	63 637	68 174	71 304	65 547	65 205
Cables, wire products, springs	56 374	87 346	87 593	54 897	84 328	85 619
Metal fasteners	70 120	104 771	115 024	71 378	99 470	117 669
All other metal products	766 781	897 656	840 396	782 355	902 536	857 879
Domestic appliances	26 222	24 350	26 168	28 559	27 411	28 843
Electric motors, generators and transformers	447 850	531 807	525 455	449 837	568 040	529 374
Insulated wire and cables	305 718	374 774	375 797	306 034	386 738	379 203
Accumulators, primary cells and primary batteries	9 723	6 350	5 704	9 085	6 196	5 364
Television, radio and communication apparatus	2 274 816	1 941 305	2 091 196	2 117 596	1 848 220	1 928 637
Motor vehicles	2 337 071	3 177 422	3 341 681	2 362 609	3 295 025	3 412 038
Parts and accessories for motor vehicles	422 649	336 501	303 869	458 228	354 593	332 164
Furniture	315 722	207 368	193 248	341 557	231 801	207 909

* Revised

1/ Preliminary

Table E - Weights and the average indices of physical volume of manufacturing production according to manufacturing

divisions and major groups before re-basing

Manufacturing divisions and major groups	Weights			Average indices for the year 2000 before re-basing
	1990-1992	1993-1995	1996-2002	
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 planing 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 cables	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	106,0

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