

Manufacturing: production and sales

February 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 February 2003

Actual estimates		February 2003	% change between February 2001 and February 2002	% change between December 2001 to February 2002 and December 2002 to February 2003	% change between January 2002 to February 2002 and January 2003 to February 2003
of	Physical volume				
	manufacturing production index (2000=100)	104,9	+0,4	+0,9	+0,7
sales	Total value of				
	of manufactured products (R million)	50 685,5	+8,9	+10,6	+9,7

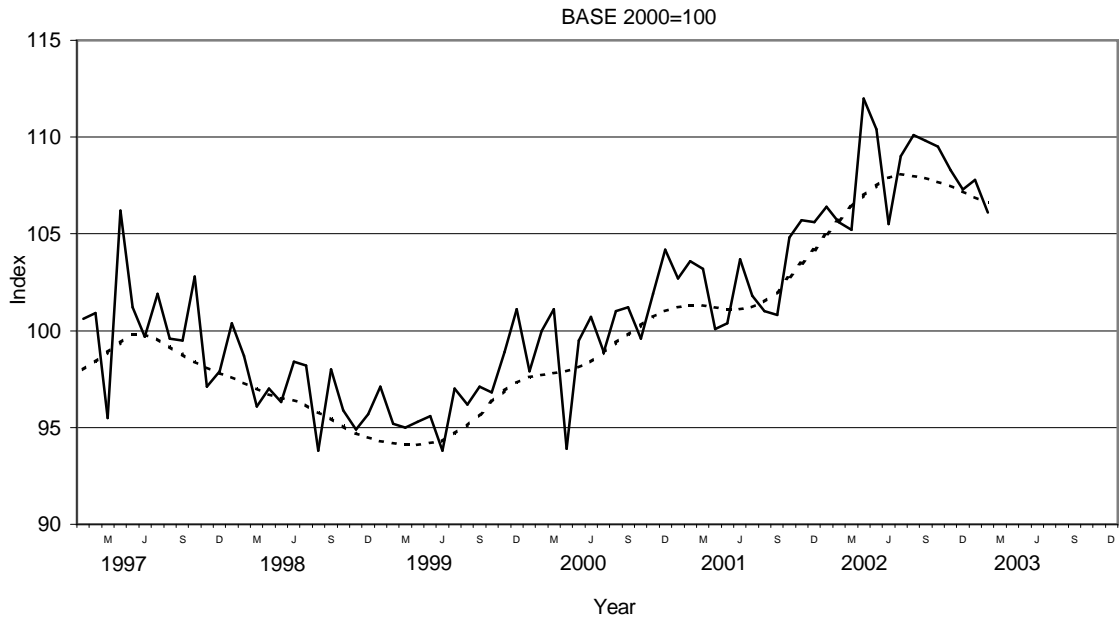
Seasonally adjusted estimates		February 2003	% change between January 2003 and February 2003	% change between September 2002 to November 2002 and December 2002 to February 2003
	Physical volume of manufacturing production index (2000=100)	106,1	-1,6	-2,0
sales	Total value of			
	of manufactured products (R million)	51 932,7	-1,1	-3,0

Key findings as at the end of February 2003

MANUFACTURING PRODUCTION DECREASES

Manufacturing production for the three months ended February 2003 reflected a decrease of 2,0% after seasonal adjustment compared with the previous three months. Lower production was reported by 17 of the 27 manufacturing divisions.

The major contributors to the decrease of 2,0% after seasonal adjustment in the total manufacturing production were the paper and paper products, coke and refined petroleum products, fabricated metal products and machinery and equipment divisions (each contributing -0,4 of a percentage point to total manufacturing production), followed by the beverage, basic chemicals, basic precious and non-ferrous metal 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 December 2002 to February 2003	Quarterly percentage change (December 2002 to February 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	+0,6	+0,1
Beverages	4,6	109,3	-3,4	-0,2
Total textiles	2,9	110,8	-0,3	-0,0
Total wearing apparel	3,6	108,1	+5,6	+0,2
Tanning and dressing of leather	0,4	91,5	-8,3	-0,1
Footwear	0,9	85,2	-0,9	-0,0
Wood and products of wood	1,9	117,9	+4,2	+0,1
Paper and paper products	5,3	97,9	-6,6	-0,4
Total publishing and printing	4,1	92,3	-2,2	-0,1
Coke and refined petroleum products	4,2	93,8	-9,4	-0,4
Basic chemicals	4,5	108,9	-5,0	-0,2
Other chemical products	6,2	111,5	+1,6	+0,1
Rubber products	1,4	104,6	-5,2	-0,1
Plastic products	3,1	123,0	-2,1	-0,1
Glass and glass products	1,0	111,2	-6,3	-0,1
Other non-metallic mineral products	3,5	106,3	+0,1	+0,0
Basic iron and steel products	7,6	116,3	+5,1	+0,4
Basic precious and non-ferrous metal products	3,2	96,5	-6,8	-0,2
Fabricated metal products	7,0	116,7	-5,2	-0,4
Total machinery and equipment	5,8	115,2	-7,2	-0,4
Electrical machinery, apparatus	3,4	103,1	+0,8	+0,0
Radio, television and communication apparatus	1,0	78,9	+1,5	+0,0
Professional equipment	0,5	132,0	+10,0	+0,1
Motor vehicles; trailers; parts and accessories	8,0	106,9	-1,6	-0,1
Other transport equipment	1,0	109,9	-18,1	-0,2
Furniture	1,6	107,6	-2,2	-0,1
Other manufacturing divisions	2,6	106,6	+3,0	+0,1
Total	100,0	107,1	-2,0	-2,0

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 three months ended February 2003 reflected a decrease of 3,0% (-R4 847 million) after seasonal adjustment compared with the previous three months. Lower manufacturing sales were reported by 17 of the 27 manufacturing divisions during this period. However, the actual total value of sales of manufactured products at current prices for the three months ended February 2003 reflected an increase of 10,6% (+R13 719 million) compared with the three months ended February 2002. Higher manufacturing sales were reported by 26 of the 27 manufacturing divisions.

The decrease of 3,0% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended February 2003 compared with the previous three months was mainly due to large decreases reported by the coke and refined petroleum products (-13,3% or -R1 565 million), basic iron and steel products (-7,6% or -R1 043 million), paper and paper products (-4,9% or -R382 million), beverage (-4,3% or -R302 million) and motor vehicles, trailers, parts and accessories (-2,7% or -R565 million) divisions (cf. table B).

The major contributors to the increase of 10,6% in the actual value of sales of manufactured products at current prices for the three months ended February 2003 compared with the three months ended February 2002 were the food and food products (+2,2 percentage points or +R2 810 million), basic iron and steel products (+1,4 percentage points or +R1 779 million), motor vehicles, trailers, parts and accessories (+1,0 percentage point or +R1 229 million) and fabricated metal products (+1,0 percentage point or +R1 2715 million) divisions (cf. table C).

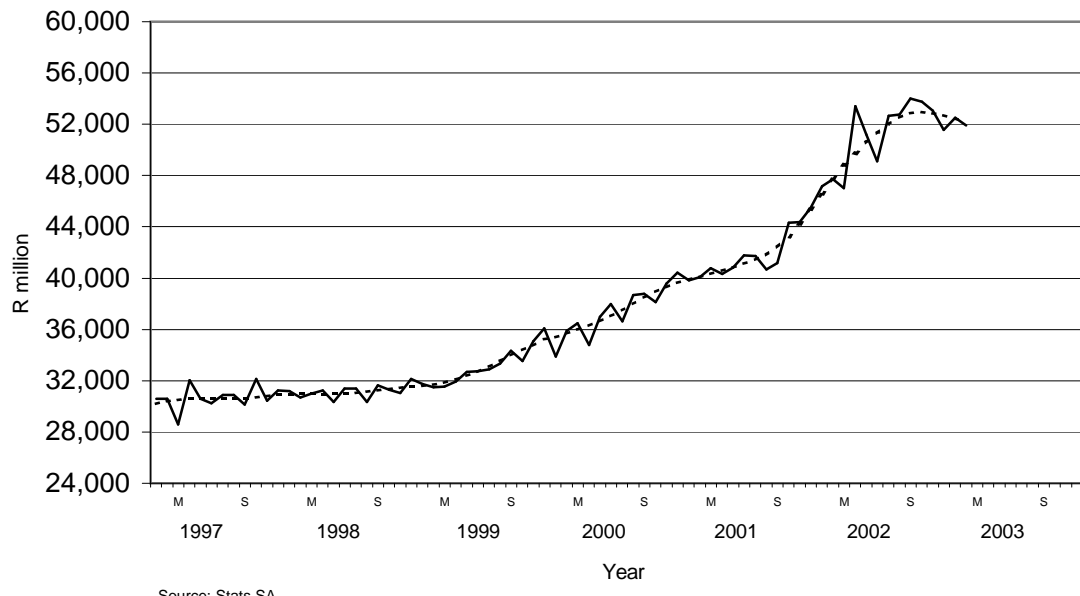
Table B - Contribution of the manufacturing divisions to the total value of seasonally adjusted sales of manufactured products

Manufacturing Divisions	Seasonally adjusted sales		Percentage change between	Difference in seasonally adjusted sales of manufacturing divisions between
	December 2002 to February 2003	September 2002 to November 2002 and December 2002 to February 2003	September 2002 to November 2002 and December 2002 to February 2003	September 2002 to November 2002 and December 2002 to February 2003
	R'000			R'000
Food and food products	21 646 540	-0,0	2 374	
Beverages	6 736 586	-4,3	302 162	
Total textiles	3 542 876	+1,5	53 789	
Total Wearing apparel	3 523 476	+8,3	270 390	
Tanning and dressing of leather	786 185	-11,0	97 549	
Footwear	632 344	+9,4	54 271	
Wood and products of wood	3 468 479	+3,1	104 342	
Paper and paper products	7 374 559	-4,9	382 097	
Total publishing and printing	3 461 036	-4,2	150 006	
Coke and refined petroleum products	10 192 812	-13,3	1 565 292	
Basic chemicals	7 387 118	-9,0	727 375	
Other chemical products	9 068 340	-1,0	95 775	
Rubber products	1 788 405	+2,6	45 921	
Plastic products	4 052 686	+2,4	95 483	
Glass and glass products	850 303	+1,2	9 939	
Other non-metallic mineral products	3 838 734	+1,4	53 737	
Basic iron and steel products	12 754 344	-7,6	1 042 766	
Basic precious and non-ferrous metal products	5 248 819	-5,0	273 595	
Fabricated metal products	9 053 851	-0,3	24 664	
Total machinery and equipment	6 954 578	+2,1	140 662	
Electrical machinery, apparatus	4 307 178	-0,4	17 888	
Radio, television and communication apparatus	1 231 545	-4,4	57 345	
Professional equipment	533 056	+1,5	7 998	
Motor vehicles; trailers; parts and accessories	20 156 531	-2,7	565 016	
Other transport equipment	1 093 199	-10,8	131 756	
Furniture	1 779 106	-9,2	179 405	
Other manufacturing industries	4 538 353	-1,5	68 824	
Total	156 001 038	-3,0	4 847 359	

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 December 2002 to February 2003	Percentage change between December 2001 to February 2002 and December 2002 to February 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 December 2001 to February 2002 and December 2002 to February 2003
				R'000
Food and food products	13,8	15,8	2,2	2 810 323
Beverages	5,3	10,4	0,6	706 618
Total textiles	1,8	15,8	0,3	374 581
Total Wearing apparel	1,8	19,1	0,3	444 471
Tanning and dressing of leather	0,5	7,0	0,0	45 491
Footwear	0,3	16,8	0,1	64 194
Wood and products of wood	1,9	19,4	0,4	473 837
Paper and paper products	5,1	6,2	0,3	404 451
Total publishing and printing	2,2	9,9	0,2	287 054
Coke and refined petroleum products	7,6	0,0	0,0	1 287
Basic chemicals	5,3	3,4	0,2	234 370
Other chemical products	6,0	7,6	0,5	581 951
Rubber products	1,0	17,3	0,2	227 666
Plastic products	2,4	16,5	0,4	506 518
Glass and glass products	0,5	6,4	0,0	45 703
Other non-metallic mineral products	2,1	15,1	0,3	416 820
Basic iron and steel products	8,1	17,1	1,4	1 779 281
Basic precious and non-ferrous metal products	4,1	-5,4	-0,2	-290 258
Fabricated metal products	5,0	19,6	1,0	1 270 558
Total machinery and equipment	4,1	16,6	0,7	884 754
Electrical machinery, apparatus	2,6	12,9	0,3	428 225
Radio, television and communication apparatus	0,7	25,1	0,2	242 796
Professional equipment	0,4	8,3	0,0	38 301
Motor vehicles; trailers; parts and accessories	12,4	7,7	1,0	1 229 457
Other transport equipment	0,6	12,3	0,1	101 227
Furniture	1,0	4,1	0,0	53 520
Other manufacturing divisions	3,3	8,5	0,3	355 730
Total	100,0	10,6	10,6	13 718 926

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
	March 2003	13 May 2003
	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 (February 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 39 of the 45 major groups. On account of certain considerations more appropriate indicators were used for the six 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 and bodies 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 and bodies 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 In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined as follows:
- 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.

- Seasonal adjustment** **16** 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.
- 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 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.**
- 20** 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.
- Related publications** **21** Users may also wish to refer to the following publications which are available from Stats SA -
- 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 February 2003 is 79,9%. The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for February 2003

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	306	80,7
Beverages	62	87,1
Textile	105	96,2
Total wearing apparel	126	80,2
Tanning and dressing of leather	24	87,5
Footwear	21	85,7
Wood and products of wood	111	75,7
Paper and paper products	92	78,3
Total publishing and printing	86	72,1
Coke and refined petroleum products	28	82,1
Basic chemicals	73	89,0
Other chemical products	107	80,4
Rubber products	21	47,6
Plastic products	92	80,4
Glass and glass products	12	83,3
Other non-metallic mineral products	126	85,7
Basic iron and steel products	39	92,3
Basic precious and non-ferrous metal products	22	77,3
Fabricated metal products	220	80,5
Total machinery and equipment	182	78,6
Electrical machinery, apparatus	77	88,3
Radio, television and communication apparatus	22	72,7
Professional equipment	25	72,0
Motor vehicles; trailers; parts and accessories	130	66,9
Other transport equipment	36	80,6
Furniture	70	70,0
Other manufacturing industries	79	63,3
Total	2 294	79,9

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;• 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

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

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	104,9 1/
M	98,4	98,9	97,9	104,8	107,3	109,6	
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	121,0	
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	97,2	98,1	102,7	106,4	107,8
F	100,9	98,7	95,1	100,1	103,4	105,6	106,1
M	95,5	96,1	95,0	101,2	103,3	105,2	
A	106,2	97,0	95,2	93,7	100,0	111,9	
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	99,6	93,8	96,2	101,0	101,1	110,1	
S	99,5	98,0	97,1	101,2	100,7	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	97,9	95,6	101,1	104,0	105,6	107,3	

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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	Actual indices					Seasonally adjusted indices			
		Year	February			January		February		January
			2002		2003		2002	2003		2003
			2002	2003	2003	2003	2002	2003	2003	
Food and food products	10,7	101,6	92,3	93,8	98,0	98,6	99,5	105,5		
Meat, fish, fruit etc.	2,8	113,1	110,0	110,3	110,5	107,9	115,0	109,3		
Dairy products	1,4	100,7	95,5	97,8	94,6	99,0	97,7	97,8		
Grain mill products	2,1	113,6	110,9	102,4	96,4	119,0	109,7	103,4		
Other food products	4,4	88,7	71,0	78,0	91,7	82,9	85,2	106,5		
Beverages	4,6	112,4	115,2	96,7	114,0	115,8	106,3	113,2		
Total textiles	2,9	111,6	110,8	86,9	103,4	110,1	121,6	102,7		
Textiles	1,7	110,4	109,8	91,0	105,7	108,5	130,9	104,5		
Other textile products	1,2	113,3	112,2	81,0	100,1	112,4	108,5	100,0		
Total wearing apparel	3,6	101,9	102,7	71,6	109,9	102,2	109,0	109,1		
Knitted, crocheted articles	0,6	111,3	109,3	73,4	114,2	109,0	112,8	114,0		
Wearing apparel	3,0	100,0	101,4	71,2	109,0	100,8	108,3	108,2		
Tanning and dressing of leather	0,4	96,9	76,6	83,6	89,6	75,7	93,7	88,5		
Footwear	0,9	82,0	74,9	58,1	76,6	79,2	85,1	81,4		
Wood and products of wood	1,9	110,6	106,7	97,6	114,9	106,8	120,9	115,0		
Sawmilling and planing of wood	0,8	108,3	108,3	93,6	116,3	105,5	119,8	113,4		
Products of wood	1,2	112,1	105,7	100,2	113,9	107,7	121,6	116,1		
Paper and paper products	5,3	103,1	99,6	101,8	92,3	105,9	101,6	97,9		
Total publishing and printing	4,1	94,8	92,9	79,9	88,4	97,4	93,0	92,6		
Publishing	1,5	91,3	93,0	73,9	88,2	94,6	84,7	89,7		
Printing, recorded media	2,6	96,8	92,9	83,2	88,5	98,9	97,6	94,2		
Coke and refined petroleum products	4,2	102,5	98,2	92,0	92,0	100,8	86,8	94,8		
Basic chemicals	4,5	119,1	112,3	106,4	103,5	114,1	108,9	105,8		
Other chemical products	6,2	111,5	111,0	97,8	110,1	112,3	111,5	111,3		
Rubber products	1,4	109,9	131,8	101,5	109,4	118,3	115,1	98,1		
Plastic products	3,1	124,3	122,5	101,9	125,7	117,7	126,4	120,8		
Glass and glass products	1,0	118,9	116,2	92,0	115,6	115,6	107,7	114,6		
Other non-metallic mineral products	3,5	104,5	96,4	84,3	93,3	99,3	103,0	96,6		
Basic iron and steel products	7,6	106,0	95,7	110,5	109,0	101,8	114,9	116,1		
Basic precious and non-ferrous metal products	3,2	100,8	97,5	99,1	95,2	100,2	101,6	97,8		
Fabricated metal products	7,0	119,6	118,7	95,8	117,6	116,6	115,8	115,7		
Structural metal products	2,4	116,8	110,3	83,0	112,9	112,7	102,2	116,1		
Other fabricated metal products	4,6	121,1	123,0	102,3	120,0	118,6	122,7	115,5		
Total machinery and equipment	5,8	121,3	108,6	93,6	116,7	104,8	113,1	112,7		
General purpose machinery	2,5	109,3	104,4	102,1	100,1	103,8	126,2	99,3		
Special purpose machinery	2,9	133,4	112,0	88,4	130,8	105,0	101,6	123,8		
Household appliances	0,4	109,4	110,1	77,2	118,9	109,6	114,6	116,8		
Electrical machinery, apparatus	3,4	103,7	98,8	84,0	101,8	98,9	100,5	102,7		
Radio, television and communication apparatus	1,0	76,8	82,6	76,4	81,4	77,2	76,7	75,9		
Professional equipment	0,5	120,8	127,9	116,7	134,5	125,7	134,8	132,2		
Motor vehicles; trailers; parts and accessories	8,0	108,8	112,6	92,1	107,7	107,6	113,3	103,4		
Motor vehicles	4,5	105,5	115,1	82,2	100,7	109,5	107,4	96,5		
Bodies for motor vehicles; trailers and semi-trailers	0,5	102,8	97,7	60,2	94,5	90,9	94,9	87,4		
Parts and accessories	3,0	114,9	111,5	112,7	120,6	107,7	125,4	116,6		
Other transport equipment	1,0	118,2	120,2	88,1	104,3	121,2	109,2	104,5		
Furniture	1,6	107,3	81,8	71,0	97,4	86,3	110,3	103,3		
Other manufacturing divisions	2,6	102,9	107,0	84,5	105,7	106,8	119,1	104,4		
Total	100,0	108,2	104,5	93,6	104,9	105,6	107,8	106,1		

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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	44 566 256
F	29 866 793	29 901 544	30 551 283	34 961 840	39 187 078	46 539 563	50 685 472 1/
M	29 866 272	32 190 538	32 737 212	38 039 203	42 683 525	49 227 081	
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	50 375 218	
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	58 800 107	
N	33 709 581	34 300 610	38 843 424	43 881 507	49 478 825	59 116 432	
D	28 128 922	29 016 347	32 992 528	37 256 576	42 207 610	47 486 962	
Year	368 283 280	373 568 657	397 608 593	448 106 023	502 499 271	613 669 076	
Seasonally adjusted values							
J	30 492 712	31 045 847	31 396 098	33 854 075	39 721 876	47 150 333	52 490 224
F	30 505 895	30 602 250	31 325 345	35 813 345	40 115 793	47 704 999	51 932 723
M	28 705 107	30 951 434	31 491 311	36 376 954	40 823 967	47 041 508	
A	32 095 967	31 480 642	32 288 686	34 722 241	40 362 329	53 406 311	
M	30 696 537	30 364 304	32 668 328	36 863 432	40 846 845	51 198 828	
J	30 214 565	31 235 000	32 501 282	37 849 614	41 742 453	49 130 469	
J	31 182 127	31 883 056	33 560 759	36 673 736	41 773 456	52 644 368	
A	30 751 833	30 350 504	33 216 964	38 570 511	40 671 589	52 751 565	
S	30 170 313	31 784 928	34 649 122	38 776 992	41 218 008	54 015 684	
O	32 174 472	31 401 277	33 781 752	38 044 394	44 342 466	53 749 365	
N	30 316 059	30 798 179	34 846 717	39 489 051	44 371 127	53 083 348	
D	30 850 179	31 486 985	35 870 676	40 401 477	45 478 771	51 578 092	

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

Manufacturing divisions and major groups	Year	Actual values			Seasonally adjusted values			
		February	January	February 1/	February	January	February	
		2002		2003		2002		2003
		2002	2002	2003	2002	2003	2003	
Food and food products	82 691 512	5 668 813	6 240 829	7 017 180	6 173 342	6 834 887	7 563 197	
Meat, fish, fruit etc.	26 328 742	1 849 569	1 991 115	2 075 609	1 976 340	2 279 522	2 232 491	
Dairy products	9 221 497	676 744	751 990	800 115	697 102	792 110	821 741	
Grain mill products	24 465 379	1 749 456	1 946 987	1 928 812	1 881 595	2 138 448	2 075 202	
Other food products	22 675 894	1 393 044	1 550 737	2 212 644	1 618 305	1 624 807	2 433 763	
Beverages	26 831 889	1 963 213	1 933 881	2 324 569	2 064 158	2 078 664	2 425 711	
Total textiles	13 425 652	1 020 035	856 241	1 067 277	1 037 863	1 281 046	1 085 680	
Textiles	8 654 162	648 768	578 897	729 880	647 713	870 049	729 564	
Other textile products	4 771 490	371 267	277 344	337 397	390 150	410 997	356 116	
Total wearing apparel	12 413 758	943 407	719 926	1 121 287	972 896	1 212 084	1 155 970	
Knitted, crocheted articles	2 204 983	161 853	134 150	197 862	165 650	226 811	203 701	
Wearing apparel	10 208 775	781 554	585 776	923 425	807 246	985 273	952 269	
Tanning and dressing of leather	3 310 031	240 998	259 546	261 691	243 092	301 584	264 985	
Footwear	2 185 578	168 256	128 087	172 202	174 961	239 949	178 808	
Wood and products of wood	12 676 226	930 688	980 562	1 082 290	959 517	1 234 401	1 117 814	
Sawmilling and planing of wood	3 496 221	283 037	269 188	320 783	280 328	362 966	317 456	
Products of wood	9 180 005	647 651	711 374	761 507	679 189	871 435	800 358	
Paper and paper products	29 798 377	2 303 534	2 304 413	2 361 107	2 416 376	2 505 588	2 469 352	
Total publishing and printing	13 902 770	1 027 329	1 016 121	1 099 618	1 072 480	1 138 142	1 149 845	
Publishing	5 309 542	386 202	379 828	440 378	406 348	397 673	463 476	
Printing, recorded media	8 593 228	641 127	636 293	659 240	666 132	740 469	686 369	
Coke and refined petroleum products	45 408 316	3 413 479	3 334 260	2 976 604	3 657 410	3 442 068	3 186 255	
Basic chemicals	31 234 852	2 423 423	2 288 270	2 511 374	2 430 603	2 351 775	2 521 634	
Other chemical products	35 472 849	2 667 522	2 639 482	3 015 611	2 764 882	3 050 189	3 127 835	
Rubber products	6 678 589	570 065	476 691	594 651	534 059	628 442	555 855	
Plastic products	15 136 631	1 172 220	1 105 240	1 354 581	1 180 087	1 358 029	1 363 132	
Glass and glass products	3 291 669	253 287	218 366	283 568	254 740	282 234	284 550	
Other non-metallic mineral products	14 496 579	1 056 858	1 047 483	1 080 798	1 126 991	1 319 778	1 155 294	
Basic iron and steel products	48 571 369	3 648 713	4 133 135	4 477 085	3 702 715	4 532 287	4 550 980	
Basic precious and non-ferrous metal products	21 725 348	1 452 309	1 429 684	1 473 480	1 634 726	1 745 142	1 677 773	
Fabricated metal products	34 231 948	2 603 339	2 367 305	2 954 758	2 644 674	2 934 167	3 013 348	
Structural metal products	10 580 226	755 597	642 379	919 293	810 442	872 860	992 054	
Other fabricated metal product	23 651 722	1 847 742	1 724 926	2 035 465	1 834 232	2 061 308	2 021 294	
Total machinery and equipment	26 913 368	1 964 270	1 581 559	2 288 302	2 050 629	2 179 387	2 390 905	
General purpose machinery	11 624 822	849 788	747 639	930 243	953 628	1 020 492	1 047 034	
Special purpose machinery	12 556 524	885 153	679 509	1 099 132	868 161	902 245	1 088 239	
Household appliances	2 732 022	229 329	154 411	258 927	228 840	256 651	255 631	
Electrical machinery, apparatus	16 926 563	1 316 422	1 122 326	1 419 230	1 292 345	1 440 799	1 393 651	
Radio, television and communication apparatus	4 503 712	397 841	356 804	449 580	352 562	394 822	393 694	
Professional equipment	2 028 861	165 403	164 988	183 867	159 943	179 461	178 141	
Motor vehicles; trailers; parts and accessories	80 372 512	6 634 680	5 768 997	6 464 037	6 405 406	7 272 623	6 263 023	
Motor vehicles	56 373 234	4 756 570	4 012 310	4 428 027	4 600 264	5 213 632	4 307 257	
Bodies for motor vehicles; trailers and semi-trailers	2 115 216	152 961	130 059	171 757	156 576	190 247	175 700	
Parts and accessories	21 884 062	1 725 149	1 626 628	1 864 253	1 648 566	1 868 744	1 780 066	
Other transport equipment	4 370 041	353 375	280 049	334 793	357 999	353 969	342 464	
Furniture	7 339 791	534 159	413 755	551 844	582 457	630 803	604 590	
Other manufacturing divisions	17 730 285	1 645 925	1 398 256	1 764 088	1 458 087	1 567 902	1 518 237	
Total	613 669 076	46 539 563	44 566 256	50 685 472	47 704 999	52 490 224	51 932 723	

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	February	January	February 1/	February	January	February
	2002	2003		2002	2003	
Spinning, weaving and finishing of textiles	238 408	379 102	411 380	235 668	389 057	408 584
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	34 603	59 952	60 526	30 295	52 460	53 246
Other textile articles	82 838	99 129	120 232	77 773	94 666	113 209
Knitted and crocheted fabrics and articles	123 719	139 922	153 462	117 907	143 872	145 887
Wearing apparel	754 847	776 176	843 586	780 255	828 831	866 968
Sawmilling and preserving of timber	14 100	22 573	27 584	13 592	23 333	26 502
Veneer sheets, plywood, laminboard, etc.	18 772	35 637	28 876	20 088	36 208	31 243
Builders' carpentry and joinery	37 359	38 395	40 000	40 954	38 664	43 839
Pulp, paper and paperboard	288 493	319 295	244 469	326 986	332 198	279 296
Corrugated paper and paperboard and containers	288 232	323 423	356 335	278 777	325 303	346 484
Paints, varnishes and coatings	26 753	25 422	23 425	25 396	22 683	21 960
Basic iron and steel products	3 845 738	4 747 652	5 023 384	3 853 155	4 899 871	5 050 169
Steel pipe and tube mills	236 492	397 751	409 608	256 017	434 836	444 051
Basic precious and non-ferrous metal products	1 703 741	1 799 801	1 848 784	1 764 699	1 936 240	1 919 293
Metal structures, parts	1 133 921	1 437 643	1 301 993	1 282 649	1 516 166	1 481 753
Cutlery, hand tools and general hardware	37 020	26 394	24 597	32 119	21 951	20 977
Metal containers, e.g. cans and tins	69 475	65 645	63 637	70 700	62 774	65 137
Cables, wire products, springs	54 812	71 416	84 708	53 005	78 446	81 996
Metal fasteners	75 979	92 243	104 771	72 038	86 980	99 153
All other metal products	702 829	905 788	905 116	708 319	921 146	910 520
Domestic appliances	25 058	26 669	24 350	27 697	27 870	27 330
Electric motors, generators and transformers	398 172	552 983	531 807	424 719	589 475	570 553
Insulated wire and cables	276 609	381 595	374 774	282 873	379 940	387 408
Accumulators, primary cells and primary batteries	9 681	6 219	6 350	9 685	6 470	6 304
Television, radio and communication apparatus	2 495 924	1 785 702	1 793 702	2 370 430	2 137 548	1 697 230
Motor vehicles	2 249 844	3 104 891	3 180 340	2 315 181	3 005 587	3 262 085
Parts and accessories for motor vehicles	418 289	319 991	334 714	440 381	330 361	354 577
Furniture	290 131	230 996	208 303	327 751	262 862	235 519

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