

Manufacturing: production and sales

December 2002

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Key figures as at the end of December 2002

Actual estimates		December 2002	% change between December 2001 and December 2002	% change between October 2001 to December 2001 and October 2002 to December 2002	% change between January 2001 to December 2001 and January 2002 to December 2002
of	Physical volume				
	manufacturing production index (2000=100)	92,7	+1,5	+3,0	+5,4
sales	Total value of				
	of manufactured products (R million)	47 950,8	+13,6	+18,1	+22,2

Seasonally adjusted estimates		December 2002	% change between November 2002 and December 2002	% change between July 2002 to September 2002 and October 2002 to December 2002
	Physical volume of manufacturing production index (2000=100)	107,5	-1,0	-0,9
sales	Total value of			
	of manufactured products (R million)	52 061,0	-1,9	-0,3

Key findings for the year 2002**MANUFACTURING PRODUCTION INCREASES**

Manufacturing production for the year 2002 reflected an increase of 5,4% compared with the year 2001. Higher production was reported by 23 of the 27 manufacturing divisions.

The major contributor to the annual increase of 5,4% was the fabricated metal products division (contributing +0,8 of percentage points to total manufacturing production), followed by the machinery and equipment (+0,6 of a percentage point), basic chemicals (+0,5 of a percentage point), basic iron and steel products (+0,5 of a percentage point), other chemical products (+0,4 of a percentage point) and plastic products (+0,4 of a percentage point) divisions.

SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products at current prices for the year 2002 reflected an increase of 22,2% (+R111 441 million) compared with sales for the year 2001. Increases in manufacturing sales were reported by all 27 manufacturing divisions.

The largest increases were reported by the basic iron and steel products division (+36,5% or +R12 981 million), coke and refined petroleum products (+24,0% or +R8 799 million), basic

chemicals (+24,0 % or +R6 053 million), machinery and equipment (+23,9% or +R5 211 million), motor vehicles, trailers and parts and accessories (+23,7% or +R15 412 million), fabricated metal products (+23,4% or +R6 469 million) and food and food products (+22,5% or +R15 209 million) divisions.

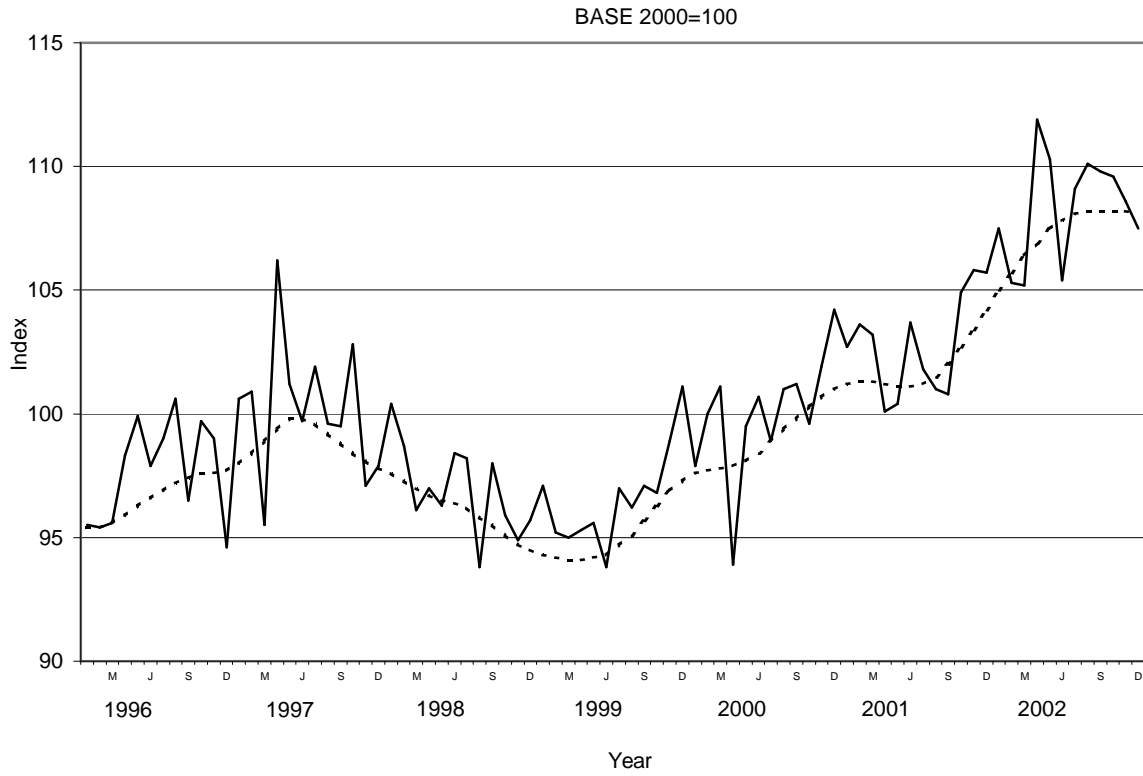
Key findings as at the end of December 2002

MANUFACTURING PRODUCTION DECREASES

Manufacturing production for the fourth quarter of 2002 reflected a decrease of 0,9% after seasonal adjustment compared with the third quarter of 2002. Lower production was reported by 15 of the 27 manufacturing divisions.

The major contributor to the decrease of 0,9% after seasonal adjustment in the total manufacturing production was the paper and paper products division (contributing -0,5 of a percentage point to total manufacturing production), followed by the basic chemicals (-0,3 of a percentage point), textile, plastic products, fabricated metal products, machinery and equipment and motor vehicles, trailers, parts and accessories (each contributing -0,1 of a percentage point) divisions (cf. table A).

Figure 1 - Index of the physical volume of manufacturing production



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 October 2002 to December 2002	Quarterly percentage change (October 2002 to December 2002 compared with the preceding three months)	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and food products	10,7	100,6	+0,3	+0,0
Beverages	4,6	111,9	-0,9	-0,0
Total textiles	2,9	110,3	-2,0	-0,1
Total wearing apparel	3,6	102,5	+0,4	+0,0
Tanning and dressing of leather	0,4	94,9	-8,7	-0,0
Footwear	0,9	88,1	+4,5	+0,0
Wood and products of wood	1,9	115,4	+5,4	+0,1
Paper and paper products	5,3	97,6	-8,5	-0,5
Total publishing and printing	4,1	93,5	-0,2	-0,0
Coke and refined petroleum products	4,2	102,0	+1,3	+0,1
Basic chemicals	4,5	112,8	-6,9	-0,3
Other chemical products	6,2	110,1	-0,1	-0,0
Rubber products	1,4	109,8	+2,8	+0,0
Plastic products	3,1	122,2	-3,5	-0,1
Glass and glass products	1,0	115,6	-3,7	-0,0
Other non-metallic mineral products	3,5	108,1	+1,4	+0,1
Basic iron and steel products	7,6	112,2	-0,2	-0,0
Basic precious and non-ferrous metal products	3,2	100,9	-0,3	-0,0
Fabricated metal products	7,0	121,5	-1,2	-0,1
Total machinery and equipment	5,8	123,8	-2,3	-0,1
Electrical machinery, apparatus	3,4	105,6	+0,8	+0,0
Radio, television and communication apparatus	1,0	82,0	+9,9	+0,1
Professional equipment	0,5	122,3	+1,3	+0,0
Motor vehicles; trailers; parts and accessories	8,0	109,5	-1,4	-0,1
Other transport equipment	1,0	124,2	+3,0	+0,0
Furniture	1,6	113,5	+6,3	+0,1
Other manufacturing divisions	2,6	102,2	-1,4	-0,0
Total	100,0	108,6	-0,9	-0,9

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 fourth quarter of 2002 reflected a decrease of 0,3% (+R410 million) after seasonal adjustment compared with the third quarter of 2002. Lower manufacturing sales were reported by 9 of the 27 manufacturing divisions during this period. However, the actual total value of sales of manufactured products at current prices for the fourth quarter of 2002 reflected an increase of 18,1% (+R25 409 million) compared with the fourth quarter of 2001. Higher manufacturing sales were reported by all 27 manufacturing divisions during this period.

The decrease of 0,3% after seasonal adjustment in the total value of sales of manufactured products at current prices for the fourth quarter of 2002 compared with the third quarter 2002 was mainly due to large decreases reported by the basic chemicals (-7,7% or -R636 million), basic iron and steel products (-6,9% or -R928 million), paper and paper products (-5,9% or -R466 million) and coke and refined petroleum products (-4,8% or -R576 million) divisions (cf. table B).

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
	October 2002 to December 2002	July 2002 to September 2002 and October 2002 to December 2002	July 2002 to September 2002	July 2002 to September 2002 and October 2002 to December 2002	
	R'000				R'000
Food and food products	21 665 605	+1,6			342 739
Beverages	6 996 634	+0,8			58 889
Total textiles	3 489 571	+0,9			30 968
Total Wearing apparel	3 352 917	+7,3			228 396
Tanning and dressing of leather	812 895	-9,8			87 935
Footwear	613 381	+9,4			52 453
Wood and products of wood	3 375 733	+5,4			174 057
Paper and paper products	7 363 266	-5,9			465 521
Total publishing and printing	3 591 402	+0,7			25 442
Coke and refined petroleum products	11 475 335	-4,8			576 093
Basic chemicals	7 615 969	-7,7			636 445
Other chemical products	9 015 119	-0,9			79 730
Rubber products	1 828 260	+8,6			145 170
Plastic products	3 982 969	+2,3			89 651
Glass and glass products	828 442	-3,4			29 564
Other non-metallic mineral products	3 852 064	+2,3			86 062
Basic iron and steel products	12 579 782	-6,9			927 755
Basic precious and non-ferrous metal products	5 652 403	+1,8			102 086
Fabricated metal products	9 075 641	+2,7			242 602
Total machinery and equipment	7 172 961	+6,5			437 633
Electrical machinery, apparatus	4 447 704	+3,8			162 621
Radio, television and communication apparatus	1 313 994	+21,5			232 576
Professional equipment	528 166	+2,5			12 904
Motor vehicles; trailers; parts and accessories	20 616 641	-0,8			172 914
Other transport equipment	1 200 841	+10,0			108 995
Furniture	1 923 108	+5,8			106 017
Other manufacturing industries	4 533 576	-1,6			73 664
Total	158 904 380	-0,3			410 358

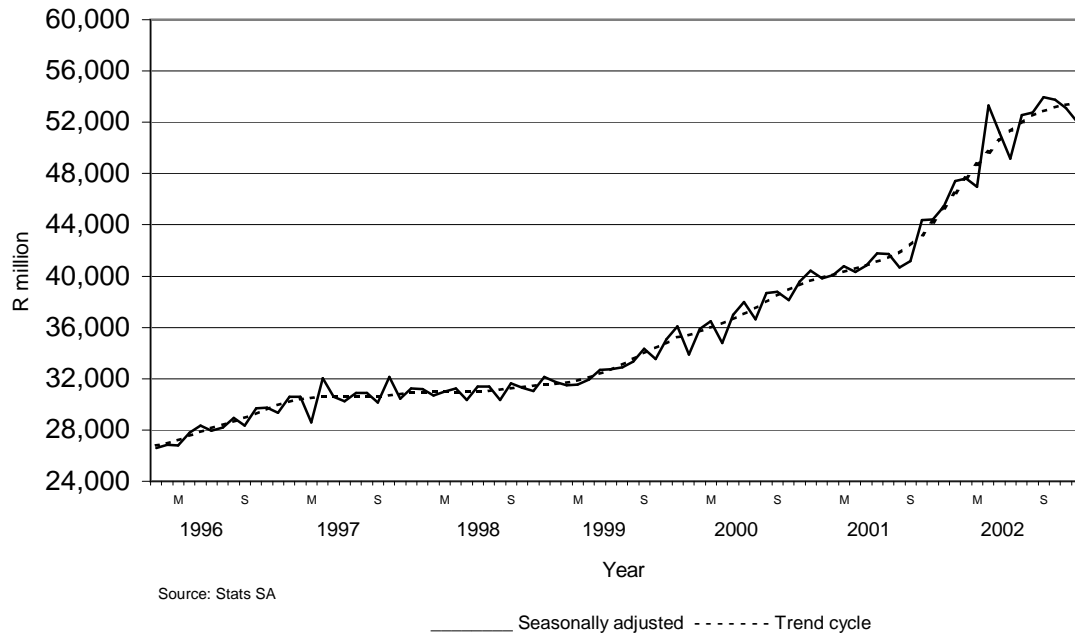
The major contributors to the increase of 18,1% in the actual value of sales of manufactured products at current prices for the fourth quarter of 2002 compared with the fourth quarter of 2001 were the food and food products (+2,9 percentage points or R4 082 million), basic iron and steel products (+1,9 percentage point or +R2 707 million), coke and refined petroleum product (+1,6 percentage points or +R2 282 million), fabricated metal products (+1,3 percentage points or +R1 839 million), motor vehicles, trailers, parts and accessories (+1,3 percentage points or +R1 898 million), machinery and equipment (+0,9 of a percentage point or +R1 210 million), other chemical products (+0,8 of a percentage point or +R1 157 million) and basic chemicals (+0,7 of a percentage point or +R1 026 million) divisions (cf. table C).

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 October 2001 to December 2001	Percentage change between October 2001 and October 2002 to December 2002	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions between October 2001 to December 2001 and October 2002 to December 2002
				R'000
Food and food products	13,5	21,5	2,9	4 082 195
Beverages	5,2	13,8	0,7	1 014 027
Total textiles	2,1	18,4	0,4	535 953
Total Wearing apparel	2,2	16,4	0,4	509 896
Tanning and dressing of leather	0,5	19,1	0,1	134 638
Footwear	0,4	21,4	0,1	114 524
Wood and products of wood	2,1	19,2	0,4	555 037
Paper and paper products	4,7	12,7	0,6	845 014
Total publishing and printing	2,4	13,2	0,3	454 652
Coke and refined petroleum products	6,9	23,7	1,6	2 282 329
Basic chemicals	5,2	14,1	0,7	1 026 486
Other chemical products	6,0	13,7	0,8	1 156 965
Rubber products	1,0	30,3	0,3	418 302
Plastic products	2,4	21,5	0,5	734 252
Glass and glass products	0,6	8,4	0,1	72 878
Other non-metallic mineral products	2,3	18,9	0,4	606 796
Basic iron and steel products	7,3	26,5	1,9	2 707 482
Basic precious and non-ferrous metal products	3,8	15,7	0,6	828 965
Fabricated metal products	5,2	25,1	1,3	1 838 650
Total machinery and equipment	4,3	19,9	0,9	1 209 576
Electrical machinery, apparatus	2,6	23,0	0,6	835 220
Radio, television and communication apparatus	0,7	31,3	0,2	286 179
Professional equipment	0,3	14,4	0,0	65 258
Motor vehicles; trailers; parts and accessories	13,3	10,1	1,3	1 897 513
Other transport equipment	0,6	31,5	0,2	267 246
Furniture	1,3	20,6	0,3	378 801
Other manufacturing divisions	3,0	13,0	0,4	549 717
Total	100,0	18,1	18,1	25 408 551

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.

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



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Issue

Expected release date

January 2003	11 March 2003
February 2003	8 April 2003
March 2003	13 May 2003
April 2003	10 June 2003
May 2003	8 July 2003
June 2003	12 August 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.

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

Base 2000 = 100							
Month	1996	1997	1998	1999	2000	2001	2002
Actual indices							
J	80,2	85,3	85,8	83,6	85,2	89,5	93,4
F	93,6	99,1	97,2	93,7	98,7	102,0	104,2
M	99,2	98,4	98,9	97,9	104,8	107,3	109,8
A	92,8	100,9	92,3	90,7	89,0	94,6	105,3
M	99,9	101,7	96,8	95,9	99,9	100,8	110,7
J	99,0	100,9	99,6	94,8	102,1	105,0	106,7
J	100,7	103,9	99,9	98,3	100,1	102,7	109,9
A	103,5	101,9	95,6	97,7	102,5	102,6	111,9
S	101,4	104,3	102,3	100,9	104,8	104,0	113,0
O	111,8	115,2	106,9	107,3	109,8	115,5	120,6
N	110,3	107,9	105,5	109,9	113,6	118,1	121,2
D	80,3	83,5	81,8	86,3	89,5	91,3	92,7 1/
Year	97,7	100,3	96,9	96,4	100,0	102,8	108,3
Seasonally adjusted indices							
J	95,5	100,6	100,4	97,2	97,9	102,7	107,5
F	95,4	100,9	98,7	95,2	100,1	103,6	105,3
M	95,6	95,5	96,1	95,0	101,1	103,2	105,2
A	98,3	106,1	97,0	95,2	93,8	100,0	111,9
M	99,9	101,2	96,3	95,6	99,5	100,4	110,3
J	97,9	99,7	98,4	93,8	100,7	103,7	105,4
J	98,9	101,9	98,2	97,0	98,9	101,8	109,1
A	100,6	99,6	93,8	96,2	101,0	101,0	110,0
S	96,5	99,5	98,0	97,1	101,2	100,8	109,7
O	99,7	102,8	95,9	96,8	99,6	104,8	109,6
N	99,0	97,1	94,9	98,9	102,0	105,8	108,6
D	94,6	97,9	95,7	101,1	104,1	105,6	107,5

* Revised

1/ Preliminary

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

Manufacturing divisions and major groups	Weights	Year 2002	Actual indices			Seasonally adjusted indices		
			December	November	December1/	December	November	December
			2001	2002		2001	2002	
Food and food products	10,7	101,6	102,4	110,7	101,3	102,0	99,8	100,6
Meat, fish, fruit etc.	2,8	113,1	109,7	121,6	115,1	108,0	115,8	113,0
Dairy products	1,4	100,7	107,4	107,4	112,1	97,8	96,4	102,2
Grain mill products	2,1	113,7	108,8	116,9	109,9	110,3	111,6	111,9
Other food products	4,4	88,7	93,1	101,7	85,0	95,5	85,1	86,7
Beverages	4,6	112,1	145,5	136,0	137,7	112,7	117,2	107,3
Total textiles	2,9	111,6	70,9	132,5	70,0	108,8	113,4	107,6
Textiles	1,7	110,1	67,2	128,9	66,6	108,4	114,3	108,1
Other textile products	1,2	113,7	76,1	137,5	74,9	109,4	112,2	106,8
Total wearing apparel	3,6	101,7	73,9	125,6	76,6	98,8	102,1	102,4
Knitted, crocheted articles	0,6	110,6	70,6	131,8	78,2	103,7	114,9	115,1
Wearing apparel	3,0	99,9	74,6	124,3	76,3	97,8	99,5	99,9
Tanning and dressing of leather	0,4	96,9	70,9	106,0	71,9	91,3	94,7	91,8
Footwear	0,9	82,0	63,3	102,0	68,2	84,1	85,7	89,8
Wood and products of wood	1,9	110,6	83,9	132,5	86,2	115,0	115,4	118,6
Sawmilling and planing of wood	0,8	108,4	68,4	118,6	81,9	96,7	109,3	116,0
Products of wood	1,2	112,1	94,0	141,7	89,0	127,1	119,4	120,3
Paper and paper products	5,3	103,1	90,4	105,8	87,6	97,5	100,1	94,7
Total publishing and printing	4,1	94,8	77,6	108,8	80,7	88,3	93,4	91,6
Publishing	1,5	91,1	76,0	104,7	87,7	78,6	93,1	90,9
Printing, recorded media	2,6	96,9	78,5	111,1	76,8	93,8	93,6	92,0
Coke and refined petroleum products	4,2	102,5	114,6	97,8	105,6	109,3	95,8	100,3
Basic chemicals	4,5	119,3	102,1	126,5	110,3	106,7	109,5	115,3
Other chemical products	6,2	111,5	92,3	124,2	95,0	108,4	109,1	111,2
Rubber products	1,4	109,9	59,7	128,2	60,7	97,4	114,8	100,1
Plastic products	3,1	123,9	93,2	143,7	92,3	117,2	123,5	115,4
Glass and glass products	1,0	118,9	109,3	131,4	98,4	122,9	112,7	111,6
Other non-metallic mineral products	3,5	104,2	70,4	117,0	86,0	91,2	105,6	111,1
Basic iron and steel products	7,6	106,0	108,9	115,3	103,7	123,7	110,9	117,4
Basic precious and non-ferrous metal products	3,2	101,1	96,6	108,5	89,0	98,9	106,3	91,3
Fabricated metal products	7,0	119,4	77,2	135,1	92,3	99,9	119,3	119,5
Structural metal products	2,4	116,9	79,0	130,5	98,2	92,5	112,2	114,7
Other fabricated metal product	4,6	120,7	76,3	137,4	89,2	103,7	123,0	122,0
Total machinery and equipment	5,8	121,6	97,7	132,8	107,7	111,7	129,0	122,3
General purpose machinery	2,5	109,2	95,2	117,2	92,3	112,6	122,7	108,3
Special purpose machinery	2,9	134,1	103,6	142,0	124,6	112,7	134,0	135,5
Household appliances	0,4	109,4	69,6	164,2	81,5	97,6	132,4	114,3
Electrical machinery, apparatus	3,4	103,8	81,9	119,3	86,5	100,7	108,9	107,0
Radio, television and communication apparatus	1,0	73,9	59,9	75,8	75,6	69,1	78,5	86,4
Professional equipment	0,5	120,8	99,5	113,8	104,6	120,5	111,4	126,1
Motor vehicles; trailers; parts and accessories	8,0	109,3	76,0	124,0	71,2	113,5	109,3	105,9
Motor vehicles	4,5	105,5	77,4	117,1	68,6	113,7	103,8	100,2
Bodies for motor vehicles; trailers and semi-trailers	0,5	107,8	78,9	125,7	84,8	107,4	107,8	115,2
Parts and accessories	3,0	115,3	73,3	134,0	72,7	114,2	117,8	112,8
Other transport equipment	1,0	118,7	75,7	109,3	101,4	93,2	119,3	126,0
Furniture	1,6	109,5	70,2	151,5	76,5	105,8	111,2	114,7
Other manufacturing divisions	2,6	103,7	70,3	132,7	64,9	105,9	102,4	97,6
Total	100,0	108,3	91,3	121,2	92,7	105,6	108,6	107,5

* Revised

1/ Preliminary

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

Month	1996	1997	1998	1999	2000	2001	2002
Actual values							
J	21 803 249	25 254 480	25 913 926	26 362 762	28 647 234	33 988 164	40 272 591
F	26 328 500	29 866 793	29 901 544	30 551 283	34 961 840	39 187 078	46 539 563
M	28 188 286	29 866 272	32 190 538	32 737 212	38 039 203	42 683 525	49 227 081
A	26 231 967	30 438 604	29 758 879	30 447 208	32 651 220	37 828 090	49 699 795*
M	28 293 052	30 626 091	30 352 835	32 680 898	37 038 716	41 146 142	51 640 018*
J	28 261 416	30 575 542	31 723 893	33 054 424	38 710 074	42 743 527	50 375 218*
J	28 378 392	31 169 707	31 732 667	33 262 293	36 234 329	41 174 318	51 790 716*
A	29 568 761	31 400 042	30 810 619	33 586 437	38 992 758	41 164 534	53 396 224*
S	29 549 724	31 344 644	32 896 327	35 703 435	39 916 972	42 295 572	55 301 812*
O	33 070 022	35 902 602	34 970 472	37 386 689	41 775 594	48 601 886	58 747 772*
N	33 084 713	33 709 581	34 300 610	38 843 424	43 881 507	49 478 825	58 998 272
D	26 338 721	28 128 922	29 016 347	32 992 528	37 256 576	42 207 610	47 950 828 1/
Year	339 096 803	368 283 280	373 568 657	397 608 593	448 106 023	502 499 271	613 939 890
Seasonally adjusted values							
J	26 392 211	30 490 941	31 046 506	31 408 816	33 870 682	39 836 396	47 397 766
F	26 809 950	30 494 218	30 601 102	31 324 687	35 761 072	40 092 325	47 605 401
M	26 894 064	28 709 629	30 948 774	31 483 970	36 363 299	40 787 863	46 985 799
A	27 716 175	32 096 077	31 478 392	32 275 379	34 702 117	40 309 849	53 325 861
M	28 436 973	30 699 700	30 369 266	32 674 268	36 874 068	40 845 475	51 194 973
J	28 036 406	30 221 306	31 250 285	32 521 501	37 887 166	41 773 590	49 172 008
J	28 369 547	31 169 109	31 856 094	33 510 933	36 613 031	41 706 829	52 570 788
A	28 813 901	30 755 253	30 354 531	33 228 108	38 580 867	40 681 281	52 771 685
S	28 373 261	30 172 380	31 787 252	34 653 982	38 767 788	41 205 656	53 972 265
O	29 575 267	32 184 008	31 413 469	33 806 178	38 068 503	44 383 209	53 753 182
N	29 739 889	30 319 677	30 808 272	34 876 805	39 529 048	44 433 287	53 090 181
D	29 280 395	30 838 109	31 465 732	35 854 341	40 374 827	45 435 481	52 061 017

* Revised

1/ Preliminary

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

Manufacturing divisions and major groups	Year	Actual values			Seasonally adjusted values		
		December	November	December 1/	December	November	December
		2002	2001	2002	2001	2002	
Food and food products	82 743 469	6 183 023	7 915 819	7 388 029	6 095 762	7 157 792	7 277 842
Meat, fish, fruit etc.	26 337 169	2 028 714	2 528 768	2 414 744	1 955 144	2 320 136	2 324 788
Dairy products	9 221 930	693 754	901 119	885 161	648 739	792 569	823 557
Grain mill products	24 483 976	1 700 727	2 207 717	2 181 601	1 693 681	2 153 270	2 177 342
Other food products	22 700 394	1 759 828	2 278 215	1 906 523	1 798 198	1 891 817	1 952 155
Beverages	26 767 249	3 003 361	2 756 972	3 221 962	2 070 432	2 488 147	2 208 263
Total textiles	13 412 273	669 171	1 359 174	821 853	952 590	1 181 492	1 167 917
Textiles	8 631 963	395 424	866 671	495 285	603 588	771 178	759 600
Other textile products	4 780 310	273 747	492 503	326 568	349 002	410 314	408 317
Total wearing apparel	12 407 107	813 742	1 377 076	927 658	993 634	1 114 000	1 135 264
Knitted, crocheted articles	2 187 069	115 445	221 481	153 474	165 194	197 390	219 097
Wearing apparel	10 220 038	698 297	1 155 595	774 184	828 440	916 610	916 167
Tanning and dressing of leather	3 310 031	201 443	327 250	174 586	256 380	290 628	219 584
Footwear	2 192 716	120 570	242 746	153 818	172 033	194 899	219 439
Wood and products of wood	12 676 076	783 381	1 302 691	850 068	1 013 039	1 109 547	1 106 205
Sawmilling and planing of wood	3 508 990	189 270	350 785	238 605	247 656	312 656	313 350
Products of wood	9 167 086	594 111	951 906	611 463	765 383	796 891	792 855
Paper and paper products	29 827 372	2 070 755	2 685 903	2 288 355	2 186 202	2 463 298	2 421 372
Total publishing and printing	13 898 189	947 451	1 452 872	1 058 694	1 040 283	1 203 989	1 171 439
Publishing	5 299 352	418 456	533 559	435 668	431 889	475 009	450 839
Printing, recorded media	8 598 837	528 995	919 313	623 026	608 394	728 980	720 600
Coke and refined petroleum products	45 507 004	3 132 625	4 107 034	3 587 853	3 201 631	3 959 671	3 684 837
Basic chemicals	31 255 045	2 077 706	2 911 929	2 348 168	2 216 015	2 473 500	2 528 344
Other chemical products	35 456 369	2 581 928	3 474 865	2 645 920	2 794 265	3 048 887	2 909 530
Rubber products	6 702 997	363 484	661 266	490 488	462 258	610 661	626 731
Plastic products	15 122 860	955 739	1 537 088	1 102 259	1 148 015	1 317 104	1 318 491
Glass and glass products	3 291 669	251 397	342 394	252 617	281 113	270 378	282 514
Other non-metallic mineral products	14 464 191	823 085	1 395 813	1 008 083	1 083 090	1 252 168	1 327 053
Basic iron and steel products	48 588 550	3 464 332	4 624 984	3 600 261	3 533 412	4 450 921	3 661 889
Basic precious and non-ferrous metal products	21 760 340	2 376 013	1 979 524	2 180 923	2 058 459	1 889 318	1 870 847
Fabricated metal products	34 163 962	1 745 988	3 443 405	2 374 298	2 214 591	2 965 680	3 040 786
Structural metal products	10 577 911	555 998	1 076 388	752 887	681 987	912 231	944 513
Other fabricated metal product	23 586 051	1 189 990	2 367 017	1 621 411	1 532 603	2 053 449	2 096 273
Total machinery and equipment	27 050 545	1 912 991	2 486 603	2 476 078	1 942 006	2 407 814	2 497 228
General purpose machinery	11 693 711	961 562	1 052 274	1 121 251	942 763	1 002 025	1 083 953
Special purpose machinery	12 624 812	811 310	1 070 525	1 166 221	816 315	1 117 879	1 168 455
Household appliances	2 732 022	140 119	363 804	188 606	182 928	287 911	244 819
Electrical machinery, apparatus	16 912 149	1 016 813	1 710 444	1 222 035	1 243 391	1 527 504	1 501 137
Radio, television and communication apparatus	4 491 414	283 674	379 170	403 679	318 142	421 898	448 916
Professional equipment	2 028 056	148 177	171 614	148 882	173 174	159 240	172 821
Motor vehicles; trailers; parts and accessories	80 456 092	4 348 462	7 448 560	5 010 640	5 780 766	6 632 010	6 724 845
Motor vehicles	56 449 666	3 270 380	5 096 827	3 606 235	4 167 119	4 551 248	4 619 634
Bodies for motor vehicles; trailers and semi-trailers	2 125 793	111 187	227 773	137 677	148 069	198 807	185 342
Parts and accessories	21 880 633	966 895	2 123 960	1 266 728	1 465 578	1 881 955	1 919 869
Other transport equipment	4 386 220	212 530	348 681	322 471	275 626	376 470	421 709
Furniture	7 310 643	391 946	908 923	479 339	529 578	651 824	648 692
Other manufacturing divisions	17 757 302	1 327 823	1 645 472	1 411 811	1 399 596	1 471 340	1 467 323
Total	613 939 890	42 207 610	58 998 272	47 950 828	45 435 481	53 090 181	52 061 017

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	December	November	December 1/	December	November	December
	2001	2002		2001	2002	
Spinning, weaving and finishing of textiles	195 933	308 671	311 628	226 344	314 083	361 800
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	38 187	34 452	44 199	36 664	40 778	41 971
Other textile articles	86 075	90 881	78 277	95 353	86 937	86 442
Knitted and crocheted fabrics and articles	92 076	149 160	138 122	96 005	147 244	144 551
Wearing apparel	625 443	696 254	743 866	697 738	700 305	831 639
Sawmilling and preserving of timber	16 176	25 821	22 825	16 539	25 839	23 257
Veneer sheets, plywood, laminboard, etc.	23 089	30 111	31 846	24 646	29 338	33 565
Builders' carpentry and joinery	43 408	52 153	36 630	42 867	46 616	36 056
Pulp, paper and paperboard	286 672	332 257	227 142	288 879	250 887	229 463
Corrugated paper and paperboard and containers	320 593	386 123	358 443	317 258	364 563	356 430
Paints, varnishes and coatings	24 959	21 820	23 245	25 186	18 857	23 801
Basic iron and steel products	3 298 002	4 596 652	4 695 368	3 394 217	4 619 382	4 855 814
Steel pipe and tube mills	219 619	461 238	412 543	226 078	464 098	426 456
Basic precious and non-ferrous metal products	1 464 478	1 728 349	1 834 971	1 598 490	1 897 389	2 006 020
Metal structures, parts	1 232 210	1 454 215	1 394 536	1 318 342	1 487 415	1 503 437
Cutlery, hand tools and general hardware	37 108	32 583	30 191	30 577	29 248	24 430
Metal containers, e.g. cans and tins	75 091	69 594	64 516	75 831	69 092	65 259
Cables, wire products, springs	46 388	55 453	62 012	58 528	54 146	78 952
Metal fasteners	76 036	88 801	84 475	77 167	84 838	85 771
All other metal products	849 418	1 018 237	849 925	834 277	907 454	824 427
Domestic appliances	33 334	31 415	30 411	31 444	30 696	28 546
Electric motors, generators and transformers	378 704	561 059	560 016	391 902	567 572	577 943
Insulated wire and cables	289 006	370 682	368 567	305 750	392 283	385 673
Accumulators, primary cells and primary batteries	9 196	5 597	5 888	9 440	5 619	6 016
Television, radio and communication apparatus	1 897 050	2 080 368	1 886 858	2 212 713	2 341 010	2 211 606
Motor vehicles	2 595 368	2 505 203	2 647 753	2 566 836	2 475 744	2 604 042
Parts and accessories for motor vehicles	409 904	347 765	356 320	414 988	390 386	360 102
Furniture	169 922	320 132	268 546	201 840	300 635	320 098

* Revised

1/ Preliminary

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 base year of the index of the physical volume of manufacturing production has been changed from 1995=100 to 2000=100. Both actual and seasonally adjusted figures are presented.
 - 3 In order to improve timeliness, some information for the current month (December 2002) 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.).
- Survey methodology and design**
- 8 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.
 - 9 The survey is collected by mail each month from a sample of approximately 2 400 manufacturing establishments.

- 10 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

- 11 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

- 12 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.
- 13 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	14	<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	15	<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	16	<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	17	<p>Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.</p>
Historical data	18	<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>
	19	<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	20	<p>Users may also wish to refer to the following publications which are available from Stats SA -</p> <ul style="list-style-type: none"> • P3041.3 - Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 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** **21** 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** **22** The figures in the tables have, where necessary, been rounded off to the nearest final digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.
- Pre-release policy** **23** 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.
- 24** 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 December 2002 is 78,6%. The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for December 2002

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	310	76,1
Beverages	62	85,5
Textile	106	92,5
Total wearing apparel	126	81,0
Tanning and dressing of leather	24	87,5
Footwear	21	81,0
Wood and products of wood	118	67,8
Paper and paper products	92	72,8
Total publishing and printing	86	75,6
Coke and refined petroleum products	28	78,6
Basic chemicals	73	94,5
Other chemical products	107	76,6
Rubber products	21	81,0
Plastic products	92	81,5
Glass and glass products	12	100,0
Other non-metallic mineral products	129	80,6
Basic iron and steel products	40	85,0
Basic precious and non-ferrous metal products	22	77,3
Fabricated metal products	224	79,5
Total machinery and equipment	182	77,5
Electrical machinery, apparatus	80	67,5
Radio, television and communication apparatus	22	72,7
Professional equipment	25	64,0
Motor vehicles; trailers; parts and accessories	130	79,2
Other transport equipment	36	88,9
Furniture	70	78,6
Other manufacturing industries	80	71,3
Total	2 318	78,6

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

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