

Manufacturing: production and sales

April 2003

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Embargo: 13:00
Date: 10 June 2003

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Key figures as at the end of April 2003

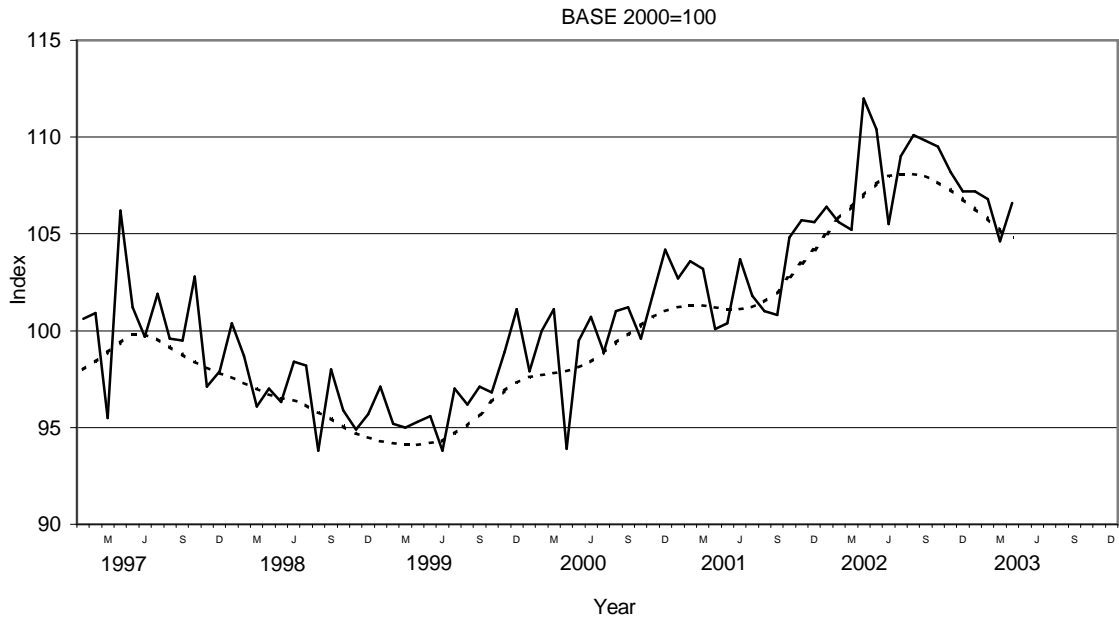
Actual estimates		April 2003	% change between April 2002 and April 2003	% change between February 2002 to April 2002 and February 2003 to April 2003	% change between January 2002 to April 2002 and January 2003 to April 2003
of	Physical volume				
	manufacturing production index (2000=100)	100,1	-4,9	-1,6	-1,0
sales	Total value of				
	of manufactured products (R million)	49 290,7	-0,8	+5,1	+6,2

Seasonally adjusted estimates		April 2003	% change between March 2003 and April 2003	% change between November 2002 to January 2003 and February 2003 to April 2003
	Physical volume of manufacturing production index (2000=100)	106,6	+1,9	-1,4
sales	Total value of			
	of manufactured products (R million)	52 483,6	+3,1	-0,9

Key findings as at the end of April 2003**MANUFACTURING PRODUCTION DECREASES**

Manufacturing production for the three months ended April 2003 reflected a decrease of 1,4%, after seasonal adjustment, compared with the previous three months. Lower production was reported by 18 of the 27 manufacturing divisions. Furthermore, the actual manufacturing production for the first four months of 2003 reflected a decrease of 1,0% compared with the first four months of 2002. However, the manufacturing production for April 2003, after seasonal adjustment, reflected an increase of 1,9% compared with March 2003.

The major contributor to the decrease of 1,4% after seasonal adjustment in the total manufacturing production was the textile division (contributing -0,4 of a percentage point to total manufacturing production), followed by the 'other' non-metallic mineral products and machinery and equipment divisions (each contributing -0,3 of a percentage point), 'other' chemical products, rubber products, motor vehicles, trailers, parts and accessories, 'other transport equipment and furniture (each contributing -0,2 of a percentage point) divisions (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 February 2003 to April 2003	Quarterly percentage change (February 2003 to April 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	101,3	+1,5	+0,2
Beverages	4,6	120,0	+8,2	+0,4
Total textiles	2,9	99,7	-12,3	-0,4
Total wearing apparel	3,6	102,3	-2,1	-0,1
Tanning and dressing of leather	0,4	82,4	-11,7	-0,1
Footwear	0,9	74,4	-12,6	-0,1
Wood and products of wood	1,9	112,8	-4,6	-0,1
Paper and paper products	5,3	96,6	-2,0	-0,1
Total publishing and printing	4,1	97,9	+5,6	+0,2
Coke and refined petroleum products	4,2	95,8	+2,1	+0,1
Basic chemicals	4,5	109,2	-0,3	-0,0
Other chemical products	6,2	107,3	-2,9	-0,2
Rubber products	1,4	92,2	-16,7	-0,2
Plastic products	3,1	120,2	-2,5	-0,1
Glass and glass products	1,0	109,4	-3,8	-0,0
Other non-metallic mineral products	3,5	100,6	-7,2	-0,3
Basic iron and steel products	7,6	113,4	-0,8	-0,1
Basic precious and non-ferrous metal products	3,2	100,4	+1,7	+0,1
Fabricated metal products	7,0	119,3	+2,5	+0,2
Total machinery and equipment	5,8	113,4	-5,9	-0,3
Electrical machinery, apparatus	3,4	103,3	-1,1	-0,0
Radio, television and communication apparatus	1,0	81,7	+2,3	+0,0
Professional equipment	0,5	126,5	+1,8	+0,0
Motor vehicles; trailers; parts and accessories	8,0	106,2	-2,2	-0,2
Other transport equipment	1,0	97,0	-14,4	-0,2
Furniture	1,6	97,2	-11,2	-0,2
Other manufacturing divisions	2,6	108,3	+2,8	+0,1
Total	100,0	106,0	-1,4	-1,4

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.

SALES OF MANUFACTURED PRODUCTS DECREASE

The total value of sales of manufactured products at current prices for the three months ended April 2003 reflected a decrease of 0,9% (-R1 344 million), after seasonal adjustment, compared with the previous three months. Lower manufacturing sales were reported by 15 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 April 2003 reflected an increase of 5,1% (+R7 367 million) compared with the three months ended April 2002. Higher manufacturing sales were reported by 17 of the 27 manufacturing divisions.

The decrease of 0,9% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended April 2003 compared with the previous three months was mainly due to large decreases reported by the textile (-12,4% or -R450 million), basic precious and non-ferrous metal products (-9,2 or -R497 million), 'other' non-metallic mineral products (-8,1% or -R318 million), coke and refined petroleum products (-5,8% or -R635 million) and motor vehicles, trailers, parts and accessories (-5,1% or -R1 040 million) divisions (cf. table B).

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

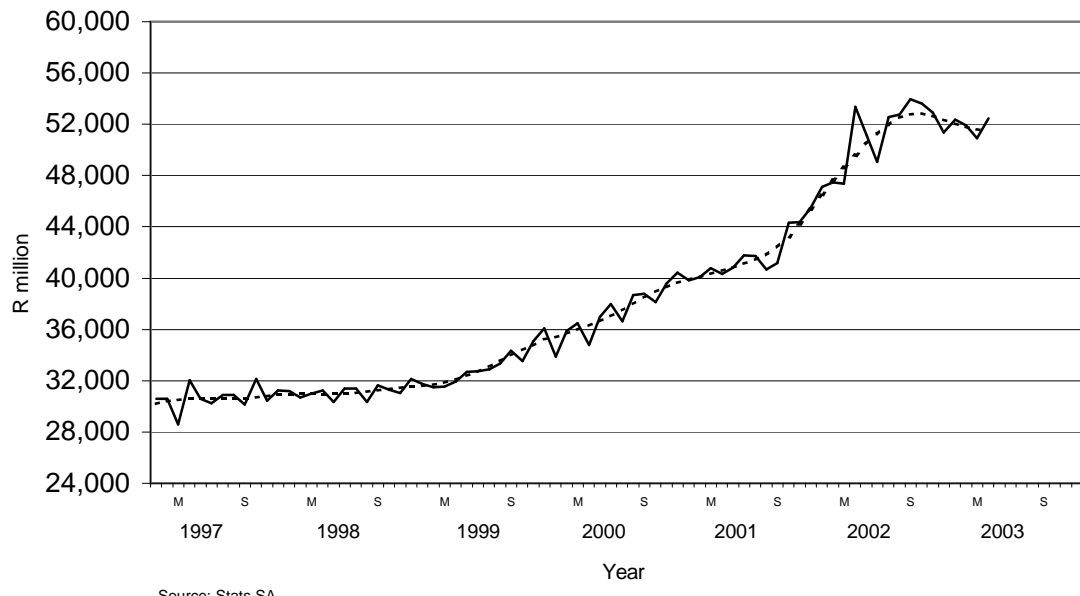
Manufacturing Divisions	Seasonally adjusted sales	Percentage change between	Difference in seasonally adjusted sales of manufacturing divisions between
	February 2003 to April 2003	November 2002 to January 2003 and February 2003 to April 2003	November 2002 to January 2003 and February 2003 to April 2003
	R'000		R'000
Food and food products	21 443 189	+1,5	312 610
Beverages	7 346 293	+7,2	496 493
Total textiles	3 184 997	-12,4	-450 202
Total Wearing apparel	3 263 858	-5,6	-192 762
Tanning and dressing of leather	746 178	-8,5	-69 186
Footwear	522 502	-18,5	-118 388
Wood and products of wood	3 454 895	-0,0	-275
Paper and paper products	7 349 131	-0,2	-15 800
Total publishing and printing	3 654 611	+3,6	127 347
Coke and refined petroleum products	10 376 898	-5,8	-635 001
Basic chemicals	7 622 462	+3,8	280 873
Other chemical products	9 171 062	+2,1	187 427
Rubber products	1 601 424	-12,2	-222 633
Plastic products	4 004 443	+0,1	4 298
Glass and glass products	848 898	+1,5	12 206
Other non-metallic mineral products	3 613 067	-8,1	-317 603
Basic iron and steel products	13 479 454	+6,8	856 984
Basic precious and non-ferrous metal products	4 924 822	-9,2	-496 582
Fabricated metal products	8 959 900	+0,4	36 273
Total machinery and equipment	7 226 795	+4,4	303 171
Electrical machinery, apparatus	4 295 166	-4,2	-190 637
Radio, television and communication apparatus	1 383 881	+8,1	103 652
Professional equipment	545 352	+6,1	31 284
Motor vehicles; trailers; parts and accessories	19 173 205	-5,1	-1 039 924
Other transport equipment	978 504	-11,3	- 124 780
Furniture	1 805 075	-4,4	-83 888
Other manufacturing industries	4 337 591	-3,1	-139 422
Total	155 313 652	-0,9	-1 344 466

The major contributors to the increase of 5,1% in the actual value of sales of manufactured products at current prices for the three months ended April 2003 compared with the three months ended April 2002 were the basic iron and steel products (+1,5 percentage points or +R2 234 million), food and food products (+1,5 percentage points or +R2 125 million), beverage (+0,7 of a percentage point or +R1 053 million), fabricated metal products (+0,6 of a percentage point or +R890 million) machinery and equipment (+0,5 of a percentage point or +R720 million) and 'other' chemical products (+0,4 of a percentage point or +R608 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 February 2002 to April 2003	Percentage change between February 2002 to April 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 February 2002 to April 2003 and February 2003 to April 2003
				R'000
Food and food products	12,7	11,5	1,5	2 125 183
Beverages	4,2	17,3	0,7	1 052 828
Total textiles	2,2	-1,2	-0,0	-39 240
Total Wearing apparel	2,1	11,1	0,2	336 938
Tanning and dressing of leather	0,6	-8,6	-0,1	-73 283
Footwear	0,3	1,0	0,0	5 011
Wood and products of wood	2,1	11,2	0,2	344 506
Paper and paper products	5,0	-2,4	-0,1	-173 099
Total publishing and printing	2,2	9,8	0,2	321 150
Coke and refined petroleum products	7,2	-5,4	-0,4	-570 841
Basic chemicals	5,1	-0,7	-0,0	-55 374
Other chemical products	5,9	7,1	0,4	608 059
Rubber products	1,2	-3,8	-0,0	-64 876
Plastic products	2,4	12,8	0,3	452 499
Glass and glass products	0,5	8,1	0,1	59 482
Other non-metallic mineral products	2,3	2,8	0,1	94 668
Basic iron and steel products	7,7	20,0	1,5	2 234 034
Basic precious and non-ferrous metal products	3,5	-8,8	-0,3	-445 221
Fabricated metal products	5,5	11,1	0,6	890 225
Total machinery and equipment	4,5	11,1	0,5	720 295
Electrical machinery, apparatus	2,8	6,2	0,2	253 622
Radio, television and communication apparatus	0,8	32,0	0,3	364 882
Professional equipment	0,3	12,3	0,0	59 327
Motor vehicles; trailers; parts and accessories	13,9	-5,0	-0,7	-1 012 267
Other transport equipment	0,8	-11,3	-0,1	-132 085
Furniture	1,1	1,3	0,0	21 815
Other manufacturing divisions	3,0	-0,3	-0,0	-11 113
Total	100,0	5,1	5,1	7 367 125

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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Forthcoming issues**Issue****Expected release date**

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.

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

* Revised

1/ Preliminary

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

Base 2000 = 100

Manufacturing divisions and major groups	Weights	Year 2002	Actual indices			Seasonally adjusted indices			
			April	March	April 1/	April	March	April	
			2002		2003		2002	2003	
Food and food products	10,7	101,6	96,7	97,9	93,4	99,7	99,0	96,6	
Meat, fish, fruit etc.	2,8	113,1	112,7	120,6	110,2	112,6	115,4	110,1	
Dairy products	1,4	100,7	88,2	101,2	89,0	98,6	95,5	99,4	
Grain mill products	2,1	113,6	112,3	109,6	108,2	116,0	109,1	111,7	
Other food products	4,4	88,7	81,6	76,8	76,9	84,1	84,7	79,9	
Beverages	4,6	112,4	93,9	134,8	105,3	107,2	123,6	119,7	
Total textiles	2,9	111,6	114,0	107,1	93,2	119,1	99,9	97,4	
Textiles	1,7	110,4	111,1	104,0	89,8	113,9	97,7	92,0	
Other textile products	1,2	113,3	118,0	111,4	98,0	126,4	103,0	105,1	
Total wearing apparel	3,6	101,9	102,2	105,2	92,9	108,8	93,9	99,0	
Knitted, crocheted articles	0,6	111,2	107,7	114,8	101,7	111,7	104,1	105,7	
Wearing apparel	3,0	100,0	101,1	103,3	91,1	108,2	91,8	97,6	
Tanning and dressing of leather	0,4	96,9	109,2	84,7	85,9	101,8	79,9	80,2	
Footwear	0,9	82,0	78,8	72,3	68,8	83,6	71,8	72,8	
Wood and products of wood	1,9	110,6	113,6	121,9	107,5	116,7	115,2	110,9	
Sawmilling and planing of wood	0,8	108,3	115,7	121,0	105,4	113,2	110,9	102,6	
Products of wood	1,2	112,1	112,2	122,5	108,9	119,1	118,0	116,3	
Paper and paper products	5,3	103,1	102,7	102,4	87,4	110,2	97,9	94,0	
Total publishing and printing	4,1	94,8	95,1	98,0	99,6	97,8	95,5	102,2	
Publishing	1,5	91,3	92,9	92,7	90,2	94,9	90,9	92,2	
Printing, recorded media	2,6	96,8	96,4	100,9	104,9	99,5	98,1	107,9	
Coke and refined petroleum products	4,2	102,5	99,1	95,0	92,4	101,6	97,1	95,3	
Basic chemicals	4,5	119,1	119,7	102,6	101,5	128,6	110,1	108,8	
Other chemical products	6,2	111,5	112,7	111,0	103,9	115,0	106,1	106,0	
Rubber products	1,4	109,9	105,0	92,8	91,4	109,3	85,1	95,7	
Plastic products	3,1	124,3	121,1	126,4	118,2	126,6	118,3	123,1	
Glass and glass products	1,0	118,9	117,8	115,4	91,3	120,6	119,0	93,4	
Other non-metallic mineral products	3,5	104,5	98,2	103,0	96,8	105,7	102,4	104,4	
Basic iron and steel products	7,6	106,0	92,3	112,8	107,3	96,6	111,4	113,3	
Basic precious and non-ferrous metal products	3,2	100,8	97,6	104,3	97,8	102,0	100,8	102,3	
Fabricated metal products	7,0	119,6	119,3	123,4	110,8	129,1	120,9	120,6	
Structural metal products	2,4	116,8	129,4	119,9	116,9	142,1	120,0	128,7	
Other fabricated metal products	4,6	121,1	114,1	125,2	107,7	122,4	121,4	116,5	
Total machinery and equipment	5,8	121,3	115,5	123,1	106,3	136,1	107,1	122,3	
General purpose machinery	2,5	109,3	101,6	95,8	123,6	103,5	91,2	126,2	
Special purpose machinery	2,9	133,4	128,3	149,6	94,0	165,8	121,7	122,2	
Household appliances	0,4	109,4	109,5	101,9	86,0	125,4	100,3	98,8	
Electrical machinery, apparatus	3,4	103,7	104,9	105,3	98,8	109,5	100,7	102,9	
Radio, television and communication apparatus	1,0	76,8	76,0	90,8	76,9	80,6	79,2	81,4	
Professional equipment	0,5	120,8	115,2	132,6	115,1	119,7	129,1	119,4	
Motor vehicles; trailers; parts and accessories	8,0	108,8	114,2	109,3	107,8	117,6	104,1	110,5	
Motor vehicles	4,5	105,5	107,5	104,4	96,6	116,5	100,2	104,8	
Bodies for motor vehicles; trailers and semi-trailers	0,5	102,8	104,7	102,9	111,9	90,8	86,4	96,1	
Parts and accessories	3,0	114,9	126,1	117,7	124,0	124,1	113,3	121,6	
Other transport equipment	1,0	118,2	96,4	135,6	80,6	113,4	90,0	96,7	
Furniture	1,6	107,3	101,7	89,3	91,0	111,0	90,1	99,7	
Other manufacturing divisions	2,6	102,9	106,0	98,5	97,8	127,5	101,2	120,2	
Total	100,0	108,2	105,3	108,7	100,1	112,0	104,6	106,6	

* Revised

1/ Preliminary

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

Month	1997	1998	1999	2000	2001	2002 *	2003
Actual values							
J	25 254 480	25 913 926	26 362 762	28 647 234	33 988 164	40 272 591	44 469 350 *
F	29 866 793	29 901 544	30 551 283	34 961 840	39 187 078	46 539 563	50 867 269 *
M	29 866 272	32 190 538	32 737 212	38 039 203	42 683 525	49 227 081	52 675 571
A	30 438 604	29 758 879	30 447 208	32 651 220	37 828 090	49 699 795	49 290 724 1/
M	30 626 091	30 352 835	32 680 898	37 038 716	41 146 142	51 642 905	
J	30 575 542	31 723 893	33 054 424	38 710 074	42 743 527	50 257 160	
J	31 169 707	31 732 667	33 262 293	36 234 329	41 174 318	51 846 910	
A	31 400 042	30 810 619	33 586 437	38 992 758	41 164 534	53 344 805	
S	31 344 644	32 896 327	35 703 435	39 916 972	42 295 572	55 277 038	
O	35 902 602	34 970 472	37 386 689	41 775 594	48 601 886	58 748 903	
N	33 709 581	34 300 610	38 843 424	43 881 507	49 478 825	59 022 994	
D	28 128 922	29 016 347	32 992 528	37 256 576	42 207 610	47 389 647	
Year	368 283 280	373 568 657	397 608 593	448 106 023	502 499 271	613 269 392	
Seasonally adjusted values							
J	30 501 581	31 059 034	31 410 435	33 864 681	39 744 146	47 170 719	52 359 193
F	30 506 544	30 600 834	31 321 670	35 773 667	40 042 147	47 561 546	51 917 303
M	28 716 570	30 975 123	31 557 351	36 593 918	41 142 163	47 568 835	50 912 797
A	32 090 343	31 476 144	32 279 073	34 694 298	40 195 309	52 999 916	52 483 552
M	30 701 623	30 376 082	32 685 847	36 885 257	40 889 986	51 262 072	
J	30 221 043	31 244 068	32 515 739	37 867 137	41 784 456	49 086 052	
J	31 162 835	31 847 946	33 498 865	36 589 856	41 699 603	52 610 520	
A	30 755 153	30 351 612	33 217 594	38 562 643	40 672 894	52 697 309	
S	30 166 166	31 777 172	34 633 452	38 753 906	41 201 349	53 949 351	
O	32 173 148	31 393 460	33 757 414	38 011 222	44 281 401	53 623 757	
N	30 307 380	30 784 375	34 813 307	39 451 987	44 310 817	52 922 918	
D	30 844 439	31 478 237	35 845 212	40 375 410	45 434 931	51 376 007	

* 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		
		April	March	April 1/	April	March	April
		2002	2003		2002	2003	
		2002	2002	2003	2002	2003	2003
Food and food products	82 673 880	6 356 628	6 892 381	6 718 992	6 520 300	6 984 775	6 898 542
Meat, fish, fruit etc.	26 328 187	2 028 206	2 265 923	2 212 077	2 065 527	2 272 510	2 248 085
Dairy products	9 221 497	716 783	844 429	768 596	778 043	823 301	831 293
Grain mill products	24 465 379	1 908 551	2 083 897	1 975 413	1 943 821	2 028 217	2 013 627
Other food products	22 658 817	1 703 088	1 698 132	1 762 906	1 732 909	1 860 747	1 805 537
Beverages	26 831 889	1 869 022	2 481 948	2 295 893	2 085 991	2 338 305	2 547 535
Total textiles	13 425 652	1 121 635	1 139 089	1 038 620	1 157 027	1 035 747	1 070 248
Textiles	8 654 162	706 821	730 601	680 780	721 238	650 870	696 911
Other textile products	4 771 490	414 814	408 488	357 840	435 789	384 877	373 337
Total wearing apparel	12 404 596	1 048 680	1 190 221	1 054 639	1 056 959	1 059 988	1 066 835
Knitted, crocheted articles	2 200 044	189 397	210 743	179 692	193 040	191 484	184 828
Wearing apparel	10 204 552	859 283	979 478	874 947	863 919	868 504	882 007
Tanning and dressing of leather	3 310 031	331 522	273 881	239 452	329 099	245 267	239 729
Footwear	2 185 578	169 286	172 555	166 702	177 582	172 542	173 871
Wood and products of wood	12 676 226	1 090 400	1 253 607	1 080 208	1 142 060	1 203 544	1 134 522
Sawmilling and planing of wood	3 496 221	299 728	339 617	304 761	312 045	315 536	315 520
Products of wood	9 180 005	790 672	913 990	775 447	830 015	888 008	819 002
Paper and paper products	29 798 377	2 456 400	2 605 107	2 178 621	2 741 889	2 445 297	2 438 922
Total publishing and printing	13 902 770	1 150 087	1 205 943	1 228 194	1 174 028	1 199 196	1 252 979
Publishing	5 309 542	445 445	474 634	461 506	449 796	473 599	465 816
Printing, recorded media	8 593 228	704 642	731 309	766 688	724 232	725 597	787 163
Coke and refined petroleum products	45 408 316	3 841 496	3 702 249	3 264 529	3 868 970	3 976 958	3 272 380
Basic chemicals	31 234 852	2 535 280	2 428 303	2 391 110	2 730 889	2 537 851	2 544 590
Other chemical products	35 459 575	2 903 844	3 251 831	2 960 706	3 018 655	3 054 323	3 063 718
Rubber products	6 678 589	515 391	531 228	531 627	554 337	489 519	577 136
Plastic products	15 136 631	1 190 863	1 368 705	1 297 367	1 257 513	1 294 259	1 369 164
Glass and glass products	3 291 669	241 159	261 272	253 052	268 221	282 363	281 742
Other non-metallic mineral products	14 496 579	1 173 867	1 255 957	1 152 187	1 256 896	1 216 030	1 236 550
Basic iron and steel products	48 571 369	3 789 844	4 509 739	4 428 665	3 899 754	4 382 536	4 555 497
Basic precious and non-ferrous metal products	21 725 348	1 932 872	1 550 157	1 545 005	2 090 864	1 549 337	1 664 004
Fabricated metal products	34 231 948	2 724 019	3 101 882	2 838 761	2 922 186	2 905 422	3 060 362
Structural metal products	10 580 226	829 581	1 056 002	874 771	873 612	935 730	931 026
Other fabricated metal product	23 651 722	1 894 438	2 045 880	1 963 990	2 048 574	1 969 692	2 129 336
Total machinery and equipment	26 790 603	2 029 128	2 753 580	2 133 208	2 432 455	2 315 257	2 528 598
General purpose machinery	11 502 057	854 192	1 027 694	1 141 190	954 187	1 026 291	1 269 901
Special purpose machinery	12 556 524	955 185	1 503 233	804 795	1 223 705	1 074 331	1 040 118
Household appliances	2 732 022	219 751	222 653	187 223	254 563	214 635	218 579
Electrical machinery, apparatus	16 926 563	1 312 569	1 496 534	1 414 709	1 381 359	1 387 117	1 491 896
Radio, television and communication apparatus	4 503 712	338 294	459 209	454 201	372 052	397 648	498 456
Professional equipment	2 028 861	153 884	192 307	170 001	165 154	187 396	183 137
Motor vehicles; trailers; parts and accessories	80 135 661	7 060 596	6 544 096	6 137 447	7 830 128	6 083 649	6 804 376
Motor vehicles	56 136 383	4 947 914	4 488 771	4 168 634	5 639 805	4 140 618	4 759 870
Bodies for motor vehicles; trailers and semi-trailers	2 115 216	169 229	203 019	187 236	171 784	175 765	190 866
Parts and accessories	21 884 062	1 943 453	1 852 306	1 781 577	2 018 540	1 767 265	1 853 640
Other transport equipment	4 370 041	292 733	436 710	259 964	383 801	296 755	340 980
Furniture	7 339 791	575 206	553 086	542 418	633 117	604 483	597 333
Other manufacturing divisions	17 730 285	1 495 090	1 063 994	1 514 446	1 548 628	1 267 233	1 590 450
Total	613 269 392	49 699 795	52 675 571	49 290 724	52 999 916	50 912 797	52 483 552

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	April	March	April 1/	April	March	April
	2002	2003		2002	2003	
Spinning, weaving and finishing of textiles	281 255	391 158	397 138	273 766	380 037	386 554
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	33 096	70 613	66 719	34 536	64 037	69 620
Other textile articles	69 246	113 947	99 473	70 266	107 370	102 057
Knitted and crocheted fabrics and articles	140 067	133 915	133 636	137 531	131 759	130 850
Wearing apparel	818 444	813 539	757 338	802 660	788 099	740 692
Sawmilling and preserving of timber	22 787	30 380	30 789	22 650	29 185	30 647
Veneer sheets, plywood, laminboard, etc.	23 835	22 004	25 334	24 161	23 489	25 991
Builders' carpentry and joinery	31 816	37 544	37 513	35 354	43 530	41 689
Pulp, paper and paperboard	222 702	123 717	283 067	260 869	162 020	334 245
Corrugated paper and paperboard and containers	310 631	345 145	348 538	328 319	361 400	368 903
Paints, varnishes and coatings	19 300	33 385	26 967	21 498	33 379	29 259
Basic iron and steel products	4 205 324	4 848 624	4 643 056	4 366 205	4 897 532	4 820 186
Steel pipe and tube mills	563 558	392 534	340 611	576 825	419 205	347 468
Basic precious and non-ferrous metal products	1 883 487	1 579 457	1 552 043	1 782 842	1 640 121	1 460 331
Metal structures, parts	1 286 994	1 195 467	1 191 549	1 374 310	1 271 056	1 279 083
Cutlery, hand tools and general hardware	24 306	17 275	13 911	23 832	18 123	13 724
Metal containers, e.g. cans and tins	67 231	68 174	67 765	67 366	65 832	67 631
Cables, wire products, springs	57 985	87 593	81 620	58 258	84 826	81 870
Metal fasteners	66 159	115 024	120 235	69 073	117 158	125 837
All other metal products	862 292	840 333	865 800	850 575	857 646	857 093
Domestic appliances	25 591	26 168	26 784	28 134	29 089	29 773
Electric motors, generators and transformers	485 223	525 455	590 257	495 970	531 345	601 651
Insulated wire and cables	327 853	375 797	366 762	334 793	377 763	377 373
Accumulators, primary cells and primary batteries	9 693	3 994	3 655	8 580	3 660	3 218
Television, radio and communication apparatus	2 149 546	2 066 858	1 967 743	2 006 224	1 895 046	1 828 508
Motor vehicles	2 310 550	3 455 462	3 795 323	2 236 193	3 530 242	3 717 627
Parts and accessories for motor vehicles	569 455	313 365	325 281	556 763	339 916	316 264
Furniture	311 042	221 175	247 594	346 600	238 707	276 064

* Revised

~+X

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 (April 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 - <ul style="list-style-type: none"> • the manufacturing, processing, making or packing of products; • the slaughtering of animals, including poultry; and • installation, assembly, completion, repair and related work. |
| Classification | 5 | The 1993 edition of the Standard Industrial Classification of all Economic Activities (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 International Standard Industrial Classification of all Economic Activities (ISIC) with suitable adaptations for local conditions. Statistics in this publication are presented at SIC division 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 9 was followed in 37 of the 45 major groups. On account of certain considerations more appropriate indicators were used for the eight remaining major groups namely grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, motor vehicles, bodies for motor vehicles and parts and accessories for motor vehicles. The volume indices for the major groups grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, motor vehicles, bodies for motor vehicles and parts and accessories for motor vehicles are calculated on the basis of physical quantities. This method based on physical quantities is applied by other international statistical agencies for petroleum products due to the results being more satisfactory (mainly due to these commodities being relatively homogeneous and the nature of the industry). For publication purposes, the major group tobacco products is included under 'Other' manufacturing industries.

Sample design

12 The 1988 Census of Manufacturing provided the sampling frame for the selection of the monthly sample regarding manufacturing production and sales which was implemented as from January 1995. A stratified systematic sample design based on gross output was used. All statistical units were stratified by type of economic activity according to the Standard Industrial Classification of all Economic Activities (SIC) and measure of size, where measure of size was the total manufacturing gross output of the establishment. All large establishments (size category one cases) are completely enumerated. A sample was drawn from medium and small size establishments by systematically selecting establishments with equal probability.

Benchmarking

13 The index of physical volume of manufacturing production as well as the total value of sales of manufactured products should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities as measured by the monthly Manufacturing Production and Sales sample survey is based on information received from a sample of manufacturing establishments which is weighted according to the original sample design in order to represent the population of manufacturing establishments. It is necessary to adjust the level of activities as measured by the monthly sample survey to the level of activities as measured periodically by the Census of Manufacturing. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking. The results, due to benchmarking, were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.

14 The results of the 1991, 1993 and 1996 Censuses of Manufacturing and information obtained from the former TBVC states were used to adjust the level of the manufacturing production indices and the value of sales of manufactured products. The total value of output of the manufacturing major groups (which represents the total value of work done by the establishments in these major groups) as obtained from the manufacturing censuses, was deflated with appropriate sub-indices of the Production Price Index in order to calculate the real output. The latter served as benchmarks to verify or adjust the level of the monthly physical volume of manufacturing production indices. The level adjustments were done on the volume indices for January of the relevant census year (e.g. the 1996 census year covers the period 1 July 1995 to 30 June 1996 and therefore the benchmarking was done using the index of January 1996 as reference point). The motor vehicle major group is the only exception where the financial year for most of the establishments covered the period 1 January 1995 to 31 December 1995. The benchmarking was done using the physical volume of manufacturing production index for July 1995 as reference point.

Production index for the total manufacturing industry	15	<p>In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined as follows:</p> <p>A weight is calculated for every major group according to the value added of the relevant major group compared with the value added of the total manufacturing industry based on the 1991, 1993 and 1996 Censuses of Manufacturing. Weights between census years are fixed and are based on the results of the most recent Census of Manufacturing. The production indices of all the major groups are multiplied by the applicable weights and aggregated to reflect the total physical volume of manufacturing production index.</p>
Seasonal adjustment	16	<p>Seasonally adjusted estimates of all major groups are generated each month, using the X-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.</p>
Trend cycle	17	<p>The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.</p>
Reliability of estimates	18	<p>Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.</p>
Historical data	19	<p>More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups for the period January 1990 to November 2002 is available in statistical release P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002.</p>
	20	<p>More comprehensive detail on the method of calculation and historical data in respect of the value of sales for the period January 1990 to September 1999 was published on 8 December 1999 in statistical release P3041.4.</p>
Related publications	21	<p>Users may also wish to refer to the following publications which are available from Stats SA -</p> <ul style="list-style-type: none"> • P3041.3 - Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002. • P3041.4 - Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999. • Bulletin of Statistics. • SA Statistics. • P0441 - Gross Domestic Product.

Unpublished statistics	22	In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as a computer printout, diskette or CD. Generally a charge is made for providing unpublished statistics.																		
Rounding-off of figures	23	The figures in the tables have, where necessary, been rounded off to the nearest final digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.																		
Pre-release policy	24	Stats SA has adopted the confidential pre-release policy in respect of selected economic indicators and specific government departments. The policy accords with practice among leading statistical agencies. The statistical integrity of the indices and strict observance of the release time has been assured by the following procedure: in respect of this statistical release, an official representative from the Office of the President, the Office of the Deputy President, the Department of Trade and Industry, the Department of Finance and the South African Reserve Bank receive a copy of the release on a strictly confidential basis two hours in advance of the public issue.																		
	25	Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za .																		
Symbols and abbreviations		<table border="0"> <tr> <td>GDP</td> <td>Gross Domestic Product</td> </tr> <tr> <td>ISIC</td> <td>International Standard Classification of all Economic Activities</td> </tr> <tr> <td>PPI</td> <td>Production Price Index</td> </tr> <tr> <td>SIC</td> <td>Standard Industrial Classification of all Economic Activities</td> </tr> <tr> <td>SNA</td> <td>System of National Accounts</td> </tr> <tr> <td>Stats SA</td> <td>Statistics South Africa</td> </tr> <tr> <td>TBVC states</td> <td>Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states</td> </tr> <tr> <td>1/</td> <td>Preliminary figures</td> </tr> <tr> <td>*</td> <td>Revised figures</td> </tr> </table>	GDP	Gross Domestic Product	ISIC	International Standard Classification of all Economic Activities	PPI	Production Price Index	SIC	Standard Industrial Classification of all Economic Activities	SNA	System of National Accounts	Stats SA	Statistics South Africa	TBVC states	Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states	1/	Preliminary figures	*	Revised figures
GDP	Gross Domestic Product																			
ISIC	International Standard Classification of all Economic Activities																			
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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 April 2003 is 80,0%.
The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for April 2003

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	306	78,4
Beverages	62	88,7
Textile	104	97,1
Total wearing apparel	125	88,0
Tanning and dressing of leather	24	87,5
Footwear	21	71,4
Wood and products of wood	110	73,6
Paper and paper products	92	79,3
Total publishing and printing	86	80,2
Coke and refined petroleum products	28	82,1
Basic chemicals	73	89,0
Other chemical products	107	73,8
Rubber products	21	85,7
Plastic products	92	85,9
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	81,8
Fabricated metal products	219	80,8
Total machinery and equipment	182	80,2
Electrical machinery, apparatus	77	75,3
Radio, television and communication apparatus	22	68,2
Professional equipment	25	68,0
Motor vehicles; trailers; parts and accessories	130	73,8
Other transport equipment	36	72,2
Furniture	70	70,0
Other manufacturing industries	79	59,5
Total	2 290	80,0

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. <p>Output includes -</p> <ul style="list-style-type: none"> • sales and transfers-out of own manufactures, factory waste and stocks of factored goods; • repairs; • installation, erection and assembly; • sundry trading revenue; • sales of factored goods minus purchases of factored goods; • rent and leasing received; • royalties received; • difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods; • head office charges; and • other revenue.

Output excludes –

- excise and customs duty paid.

Value added

Value added is the value of output less intermediate consumption. It represents the value added to the cost of the materials used in the process of production.

Sales

Sales are the total value of sales and transfers-out of all own manufactured products/articles and the amounts received for installation, erection or assembly or other services rendered.

Weight

The weight of a major group is the ratio of the value added of a major group (i.e. output of a major group minus intermediate consumption) to the total value added of the manufacturing industry. The weight of a major group reflects the importance of the major group in the total manufacturing industry. The weights change over time due to quality changes, changes in relative prices, and changes in preference, etc. New weights need to be calculated from time to time.

Table 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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