

Manufacturing: production and sales

July 2003

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Embargo: 13:00
Date: 9 September 2003

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

Key figures as at the end of July 2003

Actual estimates	July 2003	% change between July 2002 and July 2003	% change between May 2002 to July 2002 and May 2003 to July 2003	% change between January 2002 to July 2002 and January 2003 to July 2003
Physical volume of manufacturing production index (2000=100)	107,7	-2,0	-2,7	-1,6
Total value of sales of manufactured products (R million)	51 637,8	-0,4	-0,8	+2,9

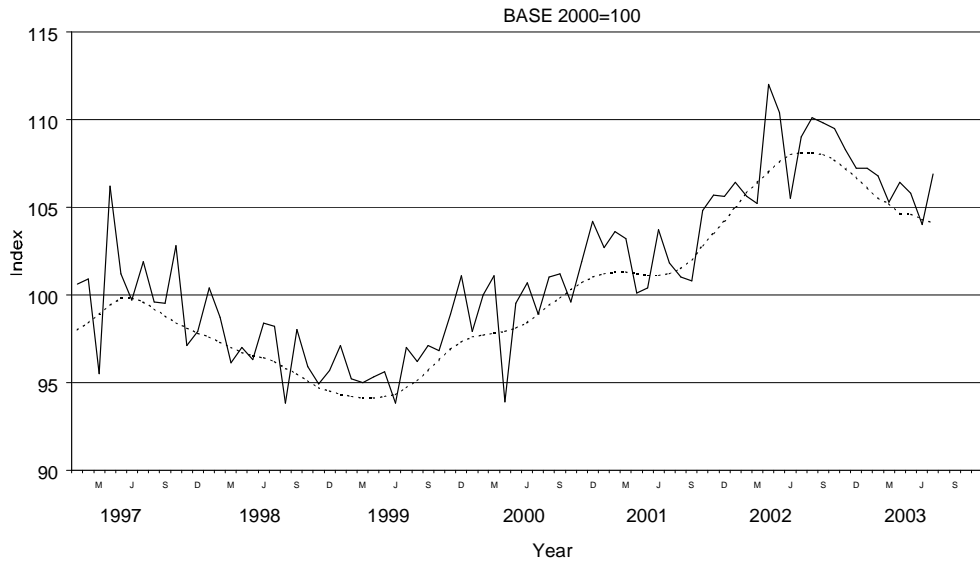
Seasonally adjusted estimates	July 2003	% change between June 2003 and July 2003	% change between February 2003 to April 2003 and May 2003 to July 2003
Physical volume of manufacturing production index (2000=100)	106,9	+2,9	-0,7
Total value of sales of manufactured products (R million)	51 973,3	+3,7	-1,8

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

Manufacturing production for the three months ended July 2003 reflected a decrease of 0,7%, after seasonal adjustment, compared with the previous three months. Lower production was reported by 15 of the 27 manufacturing divisions. Furthermore, the actual manufacturing production for the first seven months of 2003 reflected a decrease of 1,6% compared with the first seven months of 2002. However, the manufacturing production for July 2003, after seasonal adjustment, reflected an increase of 2,9% compared with June 2003.

The major contributor to the decrease of 0,7%, after seasonal adjustment, in the total manufacturing production was the basic iron and steel products division (contributing -0,5 of a percentage point to total manufacturing production), followed by the beverage (contributing -0,3 of a percentage point), textile, basic chemicals and 'other' manufacturing industries (each contributing -0,2 of a percentage point) divisions. However, these decreases were partially counteracted by large increases reported by the machinery and equipment (contributing +0,4 of a percentage point) and food and food products (contributing +0,3 of a percentage point) divisions (see table A).

The major contributors to the increase of 2,9%, after seasonal adjustment, in the total manufacturing production between June 2003 and July 2003 were the food and food products division (contributing +1,1 percentage points to total manufacturing production), followed by the motor vehicles, trailers, parts and accessories (contributing +0,5 of a percentage point), beverage (contributing +0,4 of a percentage point) and coke and refined petroleum products (contributing +0,4 of a percentage point) divisions.

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 May 2003 to July 2003	Quarterly percentage change May 2003 to July 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	104,3	+2,5	+0,3
Beverages	4,6	112,6	-6,3	-0,3
Total textiles	2,9	94,2	-5,4	-0,2
Total wearing apparel	3,6	98,9	-3,3	-0,1
Tanning and dressing of leather	0,4	92,4	+13,0	+0,1
Footwear	0,9	72,3	-2,6	-0,0
Wood and products of wood	1,9	109,1	-1,8	-0,1
Paper and paper products	5,3	96,7	-0,1	-0,0
Total publishing and printing	4,1	98,4	+0,2	+0,0
Coke and refined petroleum products	4,2	105,3	+2,5	+0,1
Basic chemicals	4,5	105,4	-3,3	-0,2
Other chemical products	6,2	105,7	-0,6	-0,1
Rubber products	1,4	102,0	+8,5	+0,1
Plastic products	3,1	121,2	+0,1	+0,0
Glass and glass products	1,0	118,1	+0,9	+0,0
Other non-metallic mineral products	3,5	98,6	-1,8	-0,1
Basic iron and steel products	7,6	105,7	-6,6	-0,5
Basic precious and non-ferrous metal products	3,2	99,7	-0,7	-0,0
Fabricated metal products	7,0	117,3	-1,0	-0,1
Total machinery and equipment	5,8	120,7	+7,4	+0,4
Electrical machinery, apparatus	3,4	103,3	-2,5	-0,1
Radio, television and communication apparatus	1,0	86,1	+8,6	+0,1
Professional equipment	0,5	120,5	-4,3	-0,0
Motor vehicles; trailers; parts and accessories	8,0	107,0	+0,6	+0,1
Other transport equipment	1,0	97,8	+0,9	+0,0
Furniture	1,6	103,5	+6,2	+0,1
Other manufacturing divisions	2,6	97,3	-6,4	-0,2
Total	100,0	105,5	-0,7	-0,7

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 July 2003 reflected a decrease of 1,8% (-R2 798 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. Furthermore, the actual total value of sales of manufactured products at current prices for the three months ended July 2003 reflected a decrease of 0,8% (-R1 214 million) compared with the three months ended July 2002. Lower manufacturing sales were reported by 11 of the 27 manufacturing divisions.

The decrease of 1,8% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended July 2003 compared with the previous three months was mainly due to large decreases reported by the coke and refined petroleum products (-13,0% or -R1 352 million), basic precious and non-ferrous metal products (-6,5% or -R320 million), basic chemicals (-5,3% or -R399 million) and food and food products (-4,0% or -R856 million) divisions (see 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 May 2003 to July 2003	Percentage change between February 2003 to April 2003 and May 2003 to July 2003	Difference in seasonally adjusted sales of manufacturing divisions between February 2003 to April 2003 and May 2003 to July 2003
	R'000		R'000
Food and food products	20 547 307	-4,0	-856 473
Beverages	7 493 351	+1,8	130 725
Total textiles	3 102 269	-2,4	-74 922
Total Wearing apparel	3 200 755	-1,3	-41 870
Tanning and dressing of leather	758 952	+1,3	9 401
Footwear	482 112	-8,2	-43 281
Wood and products of wood	3 448 099	+0,8	29 058
Paper and paper products	7 278 089	-0,8	-57 168
Total publishing and printing	3 843 350	+4,5	165 937
Coke and refined petroleum products	9 043 903	-13,0	-1 352 490
Basic chemicals	7 200 412	-5,3	-399 323
Other chemical products	9 079 350	+0,0	3 241
Rubber products	1 713 839	+5,4	87 157
Plastic products	3 929 275	-2,2	-87 239
Glass and glass products	841 316	-0,5	-4 010
Other non-metallic mineral products	3 686 355	+1,8	64 701
Basic iron and steel products	13 453 531	+0,3	37 399
Basic precious and non-ferrous metal products	4 582 891	-6,5	-319 609
Fabricated metal products	9 079 866	+2,2	199 316
Total machinery and equipment	6 960 134	-1,8	-125 111
Electrical machinery, apparatus	4 311 732	+0,1	2 242
Radio, television and communication apparatus	1 207 193	-8,3	-108 659
Professional equipment	522 630	-3,3	-17 896
Motor vehicles; trailers; parts and accessories	19 122 128	+0,2	32 882
Other transport equipment	929 945	-4,2	-40 446
Furniture	1 876 028	+3,1	56 270
Other manufacturing industries	4 259 997	-2,0	-87 475
Total	151 954 809	-1,8	2 797 645

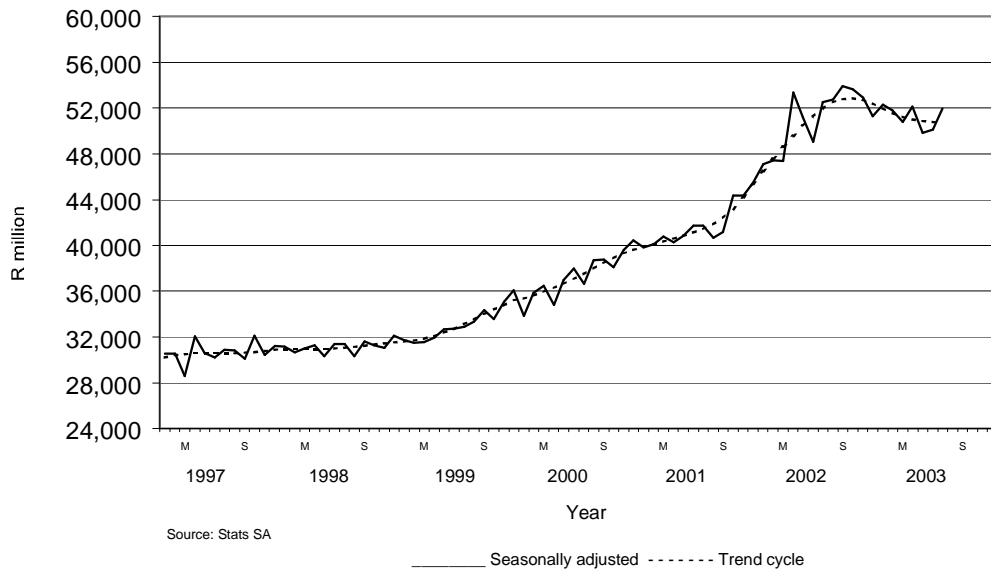
The major contributors to the decrease of 0,8% in the actual value of sales of manufactured products at current prices for the three months ended July 2003 compared with the three months ended July 2002 were the coke and refined petroleum products (-1,7 percentage points or -R2 664 million), basic precious and non-ferrous metal products (-0,5 of a percentage point or -R830 million), motor vehicles, trailers, parts and accessories (-0,5 of a percentage point or -R770 million), food and food products (-0,3 of a percentage point or -R438 million) and basic chemicals (-0,3 of a percentage point or -R474 million) divisions. However, these decreases were partially counteracted by a large increase reported by the basic iron and steel products division, which contributed 1,0 percentage point (+R1 530 million) to the total actual value of sales of manufactured products at current prices for the three months ended July 2003 compared with the three months ended July 2002 (see 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 May 2002 to July 2002	Percentage change between May 2002 to July 2002 and May 2003 to July 2003	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions May 2002 to July 2002 and May 2003 to July 2003
				R '000
Food and food products	13,7	-2,1	-0,3	-438 447
Beverages	3,8	+11,0	0,4	646 956
Total textiles	2,3	-7,7	-0,2	-272 808
Total Wearing apparel	1,9	+4,6	0,1	135 805
Tanning and dressing of leather	0,5	-5,9	-0,0	-49 761
Footwear	0,3	-7,3	-0,0	-39 033
Wood and products of wood	2,0	+13,4	0,3	419 099
Paper and paper products	4,8	+0,2	0,0	14 046
Total publishing and printing	2,2	+9,7	0,2	330 227
Coke and refined petroleum products	7,7	-22,5	-1,7	-2 664 015
Basic chemicals	4,9	-6,3	-0,3	-474 468
Other chemical products	5,7	+2,1	0,1	184 336
Rubber products	1,1	+4,7	0,0	80 403
Plastic products	2,5	+3,5	0,1	133 493
Glass and glass products	0,5	+1,7	0,0	13 859
Other non-metallic mineral products	2,4	+4,3	0,1	158 290
Basic iron and steel products	7,7	+13,0	1,0	1 530 020
Basic precious and non-ferrous metal products	3,6	-15,2	-0,5	-830 239
Fabricated metal products	5,5	+6,7	0,4	574 200
Total machinery and equipment	4,6	+2,3	0,1	163 789
Electrical machinery, apparatus	2,9	-0,1	-0,0	-5 257
Radio, television and communication apparatus	0,7	+8,2	0,0	85 529
Professional equipment	0,3	+1,9	0,0	10 131
Motor vehicles: trailers: parts and accessories	13,5	-3,7	-0,5	-770 141
Other transport equipment	0,7	-11,4	-0,1	-122 392
Furniture	1,2	+6,5	0,1	115 208
Other manufacturing divisions	2,9	-3,2	-0,1	-142 775
Total	100,0	-0,8	-0,8	-1 213 945

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

August 2003

7 October 2003

September 2003

11 November 2003

October 2003

9 December 2003

November 2003

13 January 2004

December 2003

10 February 2004

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	93,6
F	99,1	97,2	93,7	98,7	102,0	104,5	105,4
M	98,4	98,9	97,9	104,8	107,3	109,6	109,3
A	100,9	92,3	90,7	89,0	94,6	105,3	100,6
M	101,7	96,8	95,9	99,9	100,8	110,7	106,0*
J	100,9	99,6	94,8	102,1	105,0	106,7	104,9
J	103,9	99,9	98,3	100,1	102,7	109,9	107,7 1/
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	100,7	100,4	97,1	97,8	102,3	105,9	107,1
F	100,9	98,7	95,2	100,1	103,6	105,8	106,8
M	95,5	96,1	95,1	101,4	103,5	105,6	105,4
A	106,2	97,0	95,2	93,7	99,8	111,6	106,4
M	101,2	96,3	95,6	99,6	100,4	110,3	105,7
J	99,7	98,5	93,9	101,0	104,0	105,7	103,9
J	101,9	98,2	96,9	98,9	101,6	108,8	106,9
A	99,5	93,7	96,2	100,9	101,1	110,1	
S	99,4	98,0	97,1	101,1	100,8	109,8	
O	102,8	95,9	96,8	99,6	104,8	109,6	
N	97,1	94,9	98,8	101,9	105,7	108,3	
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			
			July	June	July 1/	July	June	July	
			2002		2003		2002		2003
Food and food products	10,7	101,6	96,6	102,8	108,8	98,8	100,5	110,8	
Meat, fish, fruit etc.	2,8	113,1	109,3	114,2	115,0	117,0	117,4	123,0	
Dairy products	1,4	100,7	93,4	85,1	93,2	99,1	92,9	99,2	
Grain mill products	2,1	113,6	112,4	107,8	106,0	112,1	107,3	106,1	
Other food products	4,4	88,7	82,0	98,6	110,9	80,6	88,6	108,9	
Beverages	4,6	112,4	89,3	97,7	93,1	109,2	105,2	115,1	
Total textiles	2,9	111,6	116,1	95,3	99,1	109,9	91,7	94,4	
Textiles	1,7	110,4	115,4	91,8	98,2	107,3	88,3	91,7	
Other textile products	1,2	113,3	117,0	100,3	100,4	113,6	96,5	98,3	
Total wearing apparel	3,6	101,9	100,1	92,4	101,8	100,8	99,7	103,0	
Knitted, crocheted articles	0,6	111,2	116,1	105,1	103,9	113,7	97,0	101,9	
Wearing apparel	3,0	100,0	96,9	89,8	101,4	98,2	100,3	103,3	
Tanning and dressing of leather	0,4	96,9	98,1	90,5	102,0	95,9	92,4	98,8	
Footwear	0,9	82,0	90,6	66,4	88,5	86,9	67,9	84,4	
Wood and products of wood	1,9	110,6	107,0	109,0	110,6	105,8	106,3	109,7	
Sawmilling and planing of wood	0,8	108,3	108,8	108,2	115,3	103,6	104,0	110,2	
Products of wood	1,2	112,1	105,9	109,5	107,5	107,2	107,8	109,3	
Paper and paper products	5,3	103,1	103,1	106,6	94,3	103,4	101,3	94,8	
Total publishing and printing	4,1	94,8	89,2	98,1	94,3	92,1	98,8	97,9	
Publishing	1,5	91,3	82,8	100,5	86,0	90,7	100,1	94,7	
Printing, recorded media	2,6	96,8	92,8	96,7	99,0	92,9	98,0	99,7	
Coke and refined petroleum products	4,2	102,5	101,0	99,9	112,2	101,0	102,5	111,9	
Basic chemicals	4,5	119,1	117,1	107,2	100,2	119,7	107,8	102,9	
Other chemical products	6,2	111,5	111,6	101,6	108,9	110,5	104,7	108,0	
Rubber products	1,4	109,9	121,3	103,4	108,1	114,0	106,2	101,1	
Plastic products	3,1	124,3	130,3	111,8	126,6	127,0	114,5	123,6	
Glass and glass products	1,0	118,9	122,1	115,9	131,0	118,2	114,5	126,1	
Other non-metallic mineral products	3,5	104,5	111,0	109,4	100,0	107,5	100,5	96,9	
Basic iron and steel products	7,6	106,0	115,2	102,8	105,4	109,2	98,5	99,7	
Basic precious and non-ferrous metal products	3,2	100,8	103,9	99,3	103,1	99,9	98,1	99,5	
Fabricated metal products	7,0	119,6	122,1	117,8	121,3	119,9	116,9	119,3	
Structural metal products	2,4	116,8	118,9	116,4	110,3	118,2	118,6	109,4	
Other fabricated metal product	4,6	121,1	123,7	118,5	127,0	120,8	116,1	124,4	
Total machinery and equipment	5,8	121,3	130,3	129,1	125,9	125,4	121,3	121,3	
General purpose machinery	2,5	109,3	114,2	108,9	107,9	110,4	101,5	104,1	
Special purpose machinery	2,9	133,4	146,3	150,8	144,9	140,8	142,6	139,7	
Household appliances	0,4	109,4	114,5	98,5	100,5	107,9	90,8	95,7	
Electrical machinery, apparatus	3,4	103,7	107,5	106,8	106,7	105,9	102,4	105,3	
Radio, television and communication apparatus	1,0	76,8	72,3	102,4	73,0	75,9	102,7	77,3	
Professional equipment	0,5	120,8	129,6	130,9	123,7	121,4	125,2	116,0	
Motor vehicles; trailers; parts and accessories	8,0	108,8	124,2	103,2	117,6	117,2	104,1	110,6	
Motor vehicles	4,5	105,5	116,8	99,7	114,0	107,7	95,2	104,5	
Bodies for motor vehicles; trailers and semi-trailers	0,5	102,8	109,7	118,4	121,9	115,3	114,2	128,7	
Parts and accessories	3,0	114,9	138,0	105,6	122,2	131,8	115,4	116,5	
Other transport equipment	1,0	118,2	104,7	99,8	101,1	101,8	96,6	99,4	
Furniture	1,6	107,3	107,0	102,6	106,0	107,4	98,8	106,1	
Other manufacturing divisions	2,6	102,9	112,6	94,4	103,2	105,2	95,8	96,0	
Total	100,0	108,2	109,9	104,9	107,7	108,8	103,9	106,9	

* 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	44 432 337*
F	29 866 793	29 901 544	30 551 283	34 961 840	39 187 078	46 539 563	50 783 854*
M	29 866 272	32 190 538	32 737 212	38 039 203	42 683 525	49 227 081	52 644 081*
A	30 438 604	29 758 879	30 447 208	32 651 220	37 828 090	49 732 137	49 070 323*
M	30 626 091	30 352 835	32 680 898	37 038 716	41 146 142	51 651 087	50 104 580*
J	30 575 542	31 723 893	33 054 424	38 710 074	42 743 527	50 259 292	50 795 449
J	31 169 707	31 732 667	33 262 293	36 234 329	41 174 318	51 841 409	51 637 814 1/
A	31 400 042	30 810 619	33 586 437	38 992 758	41 164 534	53 364 782	
S	31 344 644	32 896 327	35 703 435	39 916 972	42 295 572	55 271 662	
O	35 902 602	34 970 472	37 386 689	41 775 594	48 601 886	58 793 903	
N	33 709 581	34 300 610	38 843 424	43 881 507	49 478 825	59 064 339	
D	28 128 922	29 016 347	32 992 528	37 256 576	42 207 610	47 332 030	
Year	368 283 280	373 568 657	397 608 593	448 106 023	502 499 271	613 349 876	
Seasonally adjusted values							
J	30 491 958	31 045 615	31 393 472	33 833 768	39 716 119	47 143 728	52 277 166
F	30 505 558	30 599 539	31 320 182	35 759 772	40 043 209	47 558 198	51 801 176
M	28 717 097	30 975 981	31 554 378	36 568 433	41 120 669	47 523 669	50 811 526
A	32 088 210	31 471 498	32 267 262	34 666 316	40 159 879	52 969 456	52 139 751
M	30 711 784	30 392 071	32 713 176	36 981 751	40 971 466	51 405 526	49 862 517
J	30 224 764	31 257 191	32 556 123	38 031 977	41 996 374	49 480 878	50 118 962
J	31 155 305	31 828 240	33 457 482	36 482 382	41 394 055	52 033 717	51 973 330
A	30 753 906	30 351 214	33 215 537	38 551 458	40 679 955	52 726 751	
S	30 169 493	31 778 498	34 634 736	38 745 351	41 209 278	53 945 317	
O	32 172 450	31 392 125	33 758 988	38 009 256	44 308 258	53 694 034	
N	30 312 006	30 792 450	34 825 311	39 462 748	44 342 694	52 987 027	
D	30 842 104	31 473 240	35 827 004	40 360 706	45 423 821	51 294 710	

* 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		
		July	June	July 1/	July	June	July
		2002	2003		2002	2003	
		2002	2003	2003	2002	2003	2003
Food and food products	82 673 880	6 861 841	6 939 870	6 860 400	6 937 147	6 873 056	6 960 606
Meat, fish, fruit etc.	26 328 187	2 223 990	2 253 548	2 251 876	2 271 357	2 248 803	2 309 140
Dairy products	9 221 497	755 622	728 879	817 732	788 811	786 413	853 179
Grain mill products	24 465 379	2 096 824	2 015 416	1 923 197	2 097 227	1 983 032	1 931 465
Other food products	22 658 817	1 785 405	1 942 027	1 867 595	1 779 752	1 854 808	1 866 822
Beverages	26 913 178	1 890 768	2 103 390	2 190 047	2 215 813	2 376 020	2 589 500
Total textiles	13 425 652	1 179 694	1 053 829	1 072 336	1 131 243	1 001 648	1 033 435
Textiles	8 654 162	770 056	670 948	694 056	727 629	649 679	657 167
Other textile products	4 771 490	409 638	382 881	378 280	403 614	351 969	376 268
Total wearing apparel	12 404 596	1 012 289	939 650	1 091 965	1 029 063	1 012 447	1 114 892
Knitted, crocheted articles	2 200 044	192 224	198 486	190 477	186 243	172 801	184 280
Wearing apparel	10 204 552	820 065	741 164	901 488	842 820	839 646	930 612
Tanning and dressing of leather	3 310 031	276 241	264 659	259 482	284 046	251 411	267 679
Footwear	2 185 578	199 704	159 943	178 048	186 286	161 350	165 063
Wood and products of wood	12 676 226	1 025 389	1 193 171	1 142 247	1 007 719	1 168 419	1 125 925
Sawmilling and planing of wood	3 496 221	304 813	315 626	332 021	291 625	306 375	317 932
Products of wood	9 180 005	720 576	877 545	810 226	716 094	862 044	807 993
Paper and paper products	29 798 377	2 490 998	2 658 907	2 357 983	2 531 120	2 508 304	2 395 238
Total publishing and printing	13 902 770	1 114 748	1 231 126	1 218 430	1 165 214	1 280 892	1 276 326
Publishing	5 309 542	414 020	502 174	433 438	442 122	506 812	464 178
Printing, recorded media	8 593 228	700 728	728 952	784 992	723 092	774 080	812 148
Coke and refined petroleum products	45 408 316	4 185 992	2 886 850	3 427 949	3 985 202	2 924 124	3 232 208
Basic chemicals	31 234 852	2 526 348	2 217 910	2 411 908	2 567 900	2 309 093	2 460 917
Other chemical products	35 440 043	2 949 797	2 980 201	3 065 627	2 957 478	3 014 233	3 075 248
Rubber products	6 678 589	607 123	591 068	591 710	582 178	582 927	561 722
Plastic products	15 136 631	1 301 764	1 268 835	1 332 099	1 292 488	1 287 390	1 326 299
Glass and glass products	3 291 669	283 974	271 756	299 176	278 233	279 451	292 283
Other non-metallic mineral products	14 496 579	1 316 625	1 253 985	1 307 395	1 265 822	1 185 679	1 255 634
Basic iron and steel products	48 571 369	3 848 710	4 630 625	4 333 161	4 112 224	4 501 392	4 638 659
Basic precious and non-ferrous metal products	21 725 348	1 874 469	1 572 351	1 473 168	1 985 665	1 449 312	1 556 017
Fabricated metal products	34 231 948	2 879 415	3 035 093	3 117 689	2 846 253	3 043 682	3 089 588
Structural metal products	10 580 226	894 212	930 028	917 813	893 752	922 690	916 034
Other fabricated metal product	23 651 722	1 985 203	2 105 065	2 199 876	1 952 501	2 120 992	2 173 554
Total machinery and equipment	26 790 603	2 386 771	2 640 673	2 446 507	2 306 566	2 394 135	2 354 093
General purpose machinery	11 502 057	982 747	1 081 384	1 029 002	947 913	1 000 804	991 999
Special purpose machinery	12 556 524	1 166 878	1 339 785	1 196 856	1 128 660	1 193 777	1 146 370
Household appliances	2 732 022	237 146	219 504	220 649	229 993	199 554	215 725
Electrical machinery, apparatus	16 926 563	1 474 571	1 500 934	1 474 165	1 459 408	1 424 858	1 459 531
Radio, television and communication apparatus	4 503 712	308 079	475 051	311 204	363 817	423 493	379 026
Professional equipment	2 028 861	169 233	175 606	171 366	169 196	167 989	171 301
Motor vehicles; trailers; parts and accessories	80 135 661	7 187 176	6 531 838	7 028 846	6 902 986	6 179 440	6 732 342
Motor vehicles	56 136 383	4 999 296	4 621 777	4 991 237	4 798 348	4 239 428	4 772 082
Bodies for motor vehicles; trailers and semi-trailers	2 115 216	203 358	194 001	204 858	196 916	196 672	196 983
Parts and accessories	21 884 062	1 984 522	1 716 060	1 832 751	1 907 722	1 743 340	1 763 277
Other transport equipment	4 370 041	332 941	317 941	323 893	327 162	299 542	315 556
Furniture	7 339 791	606 664	620 545	628 116	606 006	622 217	630 278
Other manufacturing divisions	17 749 012	1 550 085	1 369 642	1 522 897	1 537 482	1 396 458	1 513 965
Total	613 349 876	51 841 409	50 795 449	51 637 814	52 033 717	50 118 962	51 973 330

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	July	June	July 1/	July	June	July
	2002	2003		2002	2003	
Spinning, weaving and finishing of textiles	331 804	331 418	296 669	325 633	321 956	290 792
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	34 476	60 937	50 642	38 754	65 897	56 974
Other textile articles	66 505	87 775	79 728	74 275	104 805	90 257
Knitted and crocheted fabrics and articles	140 674	133 859	127 935	144 518	136 644	130 856
Wearing apparel	793 711	669 546	625 551	821 613	690 243	649 540
Sawmilling and preserving of timber	21 086	29 735	24 267	20 916	30 322	24 063
Veneer sheets, plywood, laminboard, etc.	26 359	24 894	23 421	27 843	24 472	25 043
Builders' carpentry and joinery	46 516	47 711	49 676	44 423	47 265	47 432
Pulp, paper and paperboard	289 612	268 734	306 892	251 830	269 241	264 245
Corrugated paper and paper-board and containers	377 347	349 884	379 956	368 884	368 227	368 226
Paints, varnishes and coatings	17 477	25 076	24 139	19 488	26 842	27 059
Basic iron and steel products	4 994 679	4 613 392	4 833 828	4 797 425	4 537 003	4 624 281
Steel pipe and tube mills	563 233	311 328	320 589	499 040	309 261	281 715
Basic precious and non-ferrous metal products	1 866 283	1 489 152	1 424 869	1 797 694	1 395 538	1 366 076
Metal structures, parts	1 506 181	1 220 482	1 020 119	1 417 429	1 097 130	956 531
Cutlery, hand tools and general hardware	12 900	13 862	14 222	15 128	16 268	16 956
Metal containers, e.g. cans and tins	67 954	63 998	68 460	68 778	63 887	69 093
Cables, wire products, springs	63 765	78 076	79 617	59 975	72 745	75 031
Metal fasteners	81 708	102 874	92 927	88 662	108 175	100 960
All other metal products	844 692	835 949	994 565	836 857	855 553	985 384
Domestic appliances	28 781	23 205	26 558	28 049	23 032	25 889
Electric motors, generators and transformers	505 033	550 102	538 239	480 152	534 007	511 176
Insulated wire and cables	416 271	313 881	325 192	392 305	310 510	304 509
Accumulators, primary cells and primary batteries	5 266	3 830	3 386	5 382	3 817	3 451
Television, radio and communication apparatus	2 316 922	2 192 390	2 204 514	2 160 938	2 005 782	2 047 619
Motor vehicles	2 550 368	4 119 154	4 538 439	2 576 349	4 189 246	4 568 152
Parts and accessories for motor vehicles	664 637	342 213	318 867	581 848	331 812	277 722
Furniture	295 234	255 831	197 398	330 246	296 113	222 343

* Revised

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 (July 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 <i>Standard Industrial Classification of all Economic Activities (SIC)</i> , Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities (ISIC)</i> 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 (see 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 (see Table E for the fixed weights which were used for the three periods 1990 to 1992, 1993 to 1995 and 1996 to 2003.). |
| 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 the 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 36 of the 45 major groups. On account of certain considerations more appropriate indicators were used for the nine 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 and other transport equipment. 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 and other transport equipment 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 <i>Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002</i>).</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: <i>Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002.</i> • P3041.4: <i>Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.</i> • <i>Bulletin of Statistics.</i> • <i>SA Statistics.</i> • P0441: <i>Gross Domestic Product.</i>

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																			
PPI	Production Price Index																			
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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 July 2003 was 77,9%. The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for July 2003

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	306	75,8
Beverages	62	82,3
Textile	104	84,6
Total wearing apparel	125	84,0
Tanning and dressing of leather	24	87,5
Footwear	21	85,7
Wood and products of wood	110	69,1
Paper and paper products	92	77,2
Total publishing and printing	86	77,9
Coke and refined petroleum products	28	82,1
Basic chemicals	73	84,9
Other chemical products	106	64,2
Rubber products	21	76,2
Plastic products	92	77,2
Glass and glass products	12	83,3
Other non-metallic mineral products	126	81,0
Basic iron and steel products	39	92,3
Basic precious and non-ferrous metal products	22	81,8
Fabricated metal products	219	81,3
Total machinery and equipment	182	80,8
Electrical machinery, apparatus	77	72,7
Radio, television and communication apparatus	22	81,8
Professional equipment	25	64,0
Motor vehicles; trailers; parts and accessories	118	81,4
Other transport equipment	34	58,8
Furniture	67	70,1
Other manufacturing industries	79	70,9
Total	2 272	77,9

Glossary

Enterprise	An enterprise (firm) is a legal entity consisting of one or more establishments. The establishments need not necessarily all be manufacturing establishments, but some may be classifiable as other industries of the economy, such as wholesale trade, retail trade, motor trade and construction.
Establishment	An establishment is defined as an enterprise (firm), or part of an enterprise, that is situated at a single location and in which only a single (non-ancillary) productive activity is carried out or in which the principal productive activity accounts for most of the value added.
Index of physical volume of manufacturing production	The index of physical volume of manufacturing production or a production index is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 2000. The production in the base period is set at 100.
Industry	An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the System of National Accounts (SNA) in the same way as in the Standard Industrial Classification of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).
Intercensal period	Intercensal period is the period between January of the one census year and January of the next census year.
Intermediate consumption	Intermediate consumption includes - <ul style="list-style-type: none"> • purchases and transfers-in of materials; • payments to other establishments for work done; • other direct factory costs; • rent and leasing paid; • head office charges; • royalties, copyright, trade names and patent rights paid; • advertising; • insurance premiums; • services; and • secretarial and administrative fees.
Output	Output is the aggregate value of goods manufactured and work done. <p>Output includes -</p> <ul style="list-style-type: none"> • sales and transfers-out of own manufactures, factory waste and stocks of factored goods; • goods; • repairs; • installation, erection and assembly; • sundry trading revenue; • sales of factored goods minus purchases of factored goods; • rent and leasing received; • royalties received; • difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods; • head office charges; and • other revenue.

Output excludes –

- excise and customs duty paid.

Value added

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

Sales

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

Weight

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

Table E - Weights and the average indices of physical volume of manufacturing production according to manufacturing divisions and major groups before re-basing**Base 1995 = 100**

Manufacturing divisions and major groups	Weights			Average indices for the year 2000 before re-basing
	1990-1992	1993-1995	1996-2003	
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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 Bloemfontein Public Library
 Johannesburg Public Library
 Eastern Cape Library Services, King William's Town
 Central Regional Library, Polokwane
 Central Reference Library, Nelspruit
 Central Reference Collection, Kimberley
 Central Reference Library, Mmabatho

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Email address: Teresam@statssa.gov.za

Postal address: Private Bag X44, Pretoria, 0001