

Manufacturing: production and sales

October 2002

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Key figures as at the end of October 2002

Actual estimates		October 2002	% change between October 2001 and October 2002	% change between August 2001 to October 2001 and August 2002 to October 2002	% change between January 2001 to October 2001 and January 2002 to October 2002
of	Physical volume				
	manufacturing production index (1995=100)	127,7	+4,3	+7,6	+6,2
sales	Total value of				
	of manufactured products (R million)	58 632,0	+20,6	+26,7	+23,4

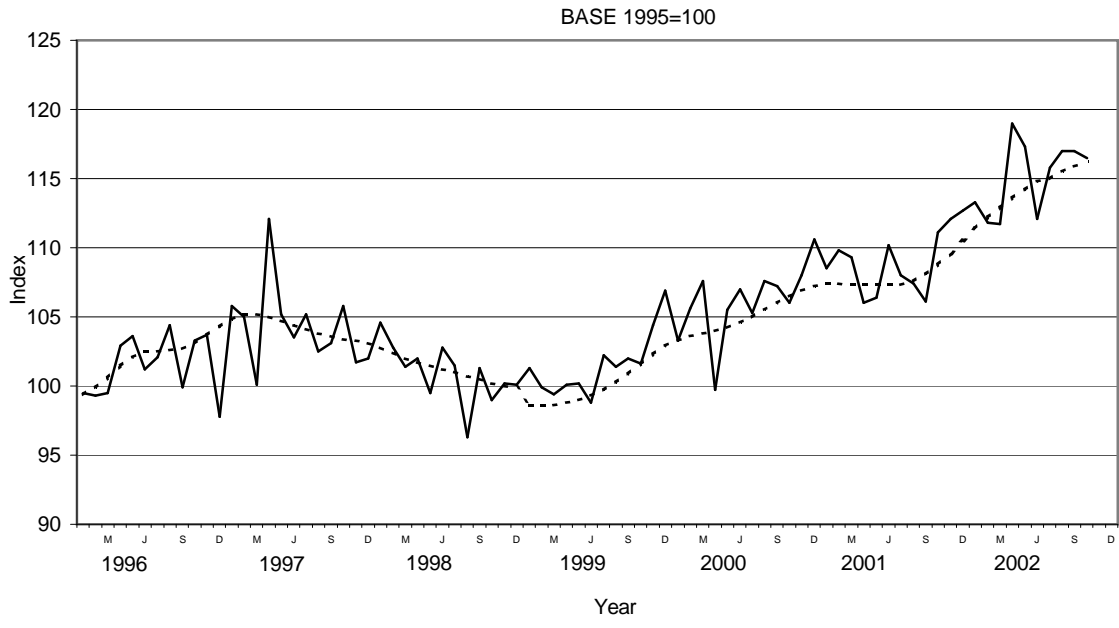
Seasonally adjusted estimates		October 2002	% change between September 2002 and October 2002	% change between May 2002 to July 2002 and August 2002 to October 2002
	Physical volume of manufacturing production index (1995=100)	116,5	-0,3	+1,6
sales	Total value of			
	of manufactured products (R million)	53 794,2	-0,3	+4,9

Key findings as at the end of October 2002

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the three months ended October 2002 reflected an increase of 1,6% after seasonal adjustment compared with the previous three months. Higher production was reported by 16 of the 27 manufacturing divisions. Furthermore, the actual manufacturing production for the first ten months of 2002 reflected an increase of 6,2% compared with the first ten months of 2001.

The major contributor to the increase of 1,6% after seasonal adjustment in the total manufacturing production was the basic iron and steel products division (contributing +0,7 of a percentage point to the increase in total manufacturing production), followed by the fabricated metal products (+0,5 of a percentage point), paper and paper products (+0,2 of a percentage point), 'other' non-metallic mineral products (+0,2 of a percentage point) and machinery and equipment (+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 1995=100)

Manufacturing Divisions	Percentage contribution to the total manufacturing production in the base year 1995 (Weights)	Average seasonally adjusted production index for the three months August 2002 to October 2002	Quarterly percentage change (August 2002 to October 2002 compared with the preceding three months)	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and food products	10,7	100,5	-1,9	-0,2
Beverages	4,6	106,5	+3,0	+0,1
Total textiles	2,9	107,0	+3,4	+0,1
Total wearing apparel	3,6	84,3	-0,6	-0,0
Tanning and dressing of leather	0,4	130,9	+6,5	+0,0
Footwear	0,9	54,6	+5,8	+0,1
Wood and products of wood	1,9	133,5	+2,3	+0,0
Paper and paper products	5,3	110,9	+3,5	+0,2
Total publishing and printing	4,1	83,0	-0,5	-0,0
Coke and refined petroleum products	4,2	107,5	-1,5	-0,1
Basic chemicals	4,5	158,3	-1,3	-0,1
Other chemical products	6,2	111,6	-1,6	-0,1
Rubber products	1,4	105,4	-0,1	-0,0
Plastic products	3,1	114,2	-0,5	-0,0
Glass and glass products	1,0	107,4	-1,6	-0,0
Other non-metallic mineral products	3,5	103,8	+4,7	+0,2
Basic iron and steel products	7,6	130,5	+9,1	+0,7
Basic precious and non-ferrous metal products	3,2	181,3	+1,1	+0,0
Fabricated metal products	7,0	130,9	+7,0	+0,5
Total machinery and equipment	5,8	123,7	+2,6	+0,2
Electrical machinery, apparatus	3,4	104,9	-3,7	-0,1
Radio, television and communication apparatus	1,0	95,4	+7,8	+0,1
Professional equipment	0,5	100,9	+2,9	+0,0
Motor vehicles; trailers; parts and accessories	8,0	130,5	-3,1	-0,3
Other transport equipment	1,0	154,6	+14,8	+0,1
Furniture	1,6	105,4	+3,9	+0,1
Other manufacturing divisions	2,6	119,5	+2,1	+0,1
Total	100,0	116,8	+1,6	+1,6

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 INCREASE

The total value of sales of manufactured products at current prices for the three months ended October 2002 reflected an increase of 4,9% (+R7 541 million) after seasonal adjustment compared with the previous three months. Higher manufacturing sales were reported by 24 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 October 2002 reflected an increase of 26,7% (+R35 265 million) compared with the three months ended October 2001. Higher manufacturing sales were reported by all 27 manufacturing divisions during this period.

The increase of 4,9% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended October 2002 compared with the previous three months was mainly due to large increases reported by the basic iron and steel products division (+17,8% or +R2 087 million), basic chemicals (+7,3% or +R567 million), fabricated metal products (+7,2% or +R614 million), paper and paper products (+7,1% or +R516 million), motor vehicles, trailers, parts and accessories (+6,0% or +R1 193 million) and food and food products (+3,0% or +R628 million) divisions (cf. table B).

The major contributors to the increase of 26,7% in the actual value of sales of manufactured products at current prices for the three months ended October 2002 compared with the three months ended October 2001 were the motor vehicles, trailers, parts and accessories (+3,7 percentage points or +R4 865 million), basic iron and steel products (+3,5 percentage points or +R4 653 million), food and food products (+3,3 percentage points or +R4 413 million), coke and refined petroleum products (+2,2 percentage points or +R2 862 million), fabricated metal products (+1,6 percentage points or +R2 125 million), basic chemicals (+1,6 percentage points or +R2 094 million) and 'other' chemical products (+1,3 percentage points or +R1 752 million) divisions (cf. table C).

Note

It is important to take note that in the next statistical release, which is due to be published on 14 January 2003, the base year of the index of physical volume of manufacturing production will be changed from 1995=100 to 2000=100.

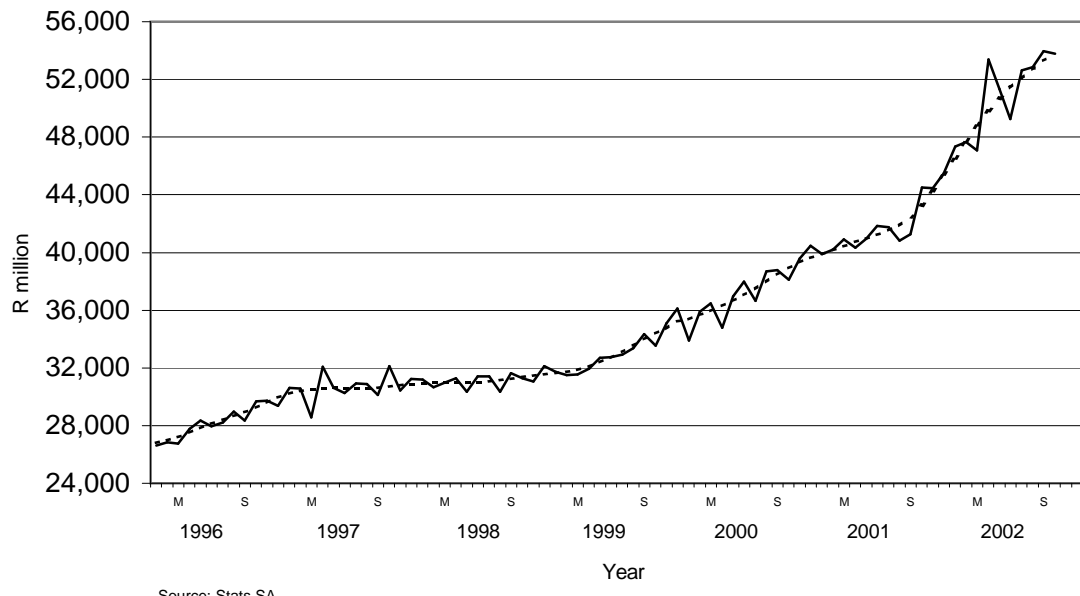
Table B - Contribution of the manufacturing divisions to the total value of seasonally adjusted sales of manufactured products

Manufacturing Divisions	Seasonally adjusted sales August 2002 to October 2002 R'000	Percentage change between May 2002 to July 2002 and August 2002 to October 2002	Difference in seasonally adjusted sales of manufacturing divisions between May 2002 to July 2002 and August 2002 to October 2002 R'000
Food and food products	21 579 212	+3,0	628 441
Beverages	7 031 850	+4,5	303 463
Total textiles	3 540 971	+5,9	197 401
Total Wearing apparel	3 173 519	+4,2	128 374
Tanning and dressing of leather	924 207	+15,2	121 962
Footwear	568 592	+9,1	47 646
Wood and products of wood	3 389 562	+11,5	349 626
Paper and paper products	7 766 352	+7,1	515 530
Total publishing and printing	3 600 764	+2,4	84 268
Coke and refined petroleum products	11 691 019	-1,1	131 948
Basic chemicals	8 313 461	+7,3	566 795
Other chemical products	9 094 700	+1,8	163 289
Rubber products	1 668 470	+1,9	30 579
Plastic products	3 928 295	+3,7	139 017
Glass and glass products	854 417	+2,6	21 955
Other non-metallic mineral products	3 756 924	+6,0	213 521
Basic iron and steel products	13 832 653	+17,8	2 087 312
Basic precious and non-ferrous metal products	5 402 289	+0,5	24 823
Fabricated metal products	9 117 556	+7,2	613 751
Total machinery and equipment	6 686 715	-4,1	289 276
Electrical machinery, apparatus	4 241 997	-1,7	75 034
Radio, television and communication apparatus	1 194 271	+11,1	118 910
Professional equipment	542 534	+6,6	33 405
Motor vehicles; trailers; parts and accessories	21 094 901	+6,0	1 192 832
Other transport equipment	1 189 015	+13,7	143 332
Furniture	1 788 632	+1,7	29 520
Other manufacturing industries	4 615 110	+6,5	281 114
Total	160 587 989	+4,9	7 540 609

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 August 2001 to October 2001	Percentage change between August 2001 to October 2001 and August 2002 to October 2002	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions August 2001 to October 2001 and August 2002 to October 2002
				R'000
Food and food products	13,2	25,2	3,3	4 413 209
Beverages	4,6	15,7	0,7	947 183
Total textiles	2,3	26,8	0,6	804 770
Total Wearing apparel	2,3	17,4	0,4	525 806
Tanning and dressing of leather	0,5	44,3	0,2	279 702
Footwear	0,4	20,6	0,1	114 103
Wood and products of wood	2,0	34,2	0,7	917 813
Paper and paper products	4,9	21,6	1,1	1 412 574
Total publishing and printing	2,5	15,5	0,4	510 900
Coke and refined petroleum products	7,1	30,6	2,2	2 862 224
Basic chemicals	5,0	31,9	1,6	2 093 991
Other chemical products	6,0	22,2	1,3	1 751 857
Rubber products	1,0	27,5	0,3	380 457
Plastic products	2,5	27,6	0,7	899 832
Glass and glass products	0,6	20,0	0,1	159 465
Other non-metallic mineral products	2,6	20,2	0,5	683 237
Basic iron and steel products	7,2	49,1	3,5	4 652 970
Basic precious and non-ferrous metal products	3,3	25,0	0,8	1 103 260
Fabricated metal products	5,8	28,0	1,6	2 124 799
Total machinery and equipment	4,5	17,0	0,8	1 014 477
Electrical machinery, apparatus	2,8	22,6	0,6	827 108
Radio, television and communication apparatus	0,7	42,6	0,3	371 416
Professional equipment	0,3	27,9	0,1	120 549
Motor vehicles; trailers; parts and accessories	13,0	28,3	3,7	4 864 922
Other transport equipment	0,7	33,1	0,2	304 400
Furniture	1,4	14,4	0,2	262 355
Other manufacturing divisions	2,9	22,6	0,7	861 440
Total	100,0	26,7	26,7	35 264 819

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

November 2002

14 January 2003

December 2002

11 February 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 1995 = 100

Month	1996	1997	1998	1999	2000	2001	2002
Actual indices							
J	83,6	89,8	89,6	88,0	90,8	95,6	99,4
F	96,7	103,1	101,1	98,3	104,2	108,3	110,7
M	102,6	102,5	102,7	102,2	111,0	113,4	116,3
A	96,4	105,5	96,3	95,2	94,4	100,2	111,9
M	104,1	106,2	101,1	100,7	105,9	106,9	117,7
J	102,9	104,9	104,5	100,0	108,3	111,5	113,3
J	104,7	108,2	104,4	103,6	106,3	109,3	117,0
A	107,8	105,8	99,9	102,7	108,7	108,5	118,7*
S	105,2	108,2	106,8	106,1	111,0	109,7	120,1
O	115,8	119,1	111,7	112,6	116,7	122,4	127,7 1/
N	114,4	111,7	109,8	115,6	120,1	124,8	
D	83,7	86,9	85,3	91,3	95,0	97,1	
Year	101,5	104,3	101,1	101,4	106,0	109,0	
Seasonally adjusted indices							
J	98,9	105,2	104,1	101,4	103,5	108,8	113,4
F	98,6	105,1	102,7	99,9	105,6	109,8	111,8
M	99,0	99,7	100,1	99,3	107,2	109,2	111,6
A	102,0	110,8	101,1	100,0	99,4	105,8	118,8
M	103,9	105,4	100,3	100,3	105,4	106,3	117,1
J	101,6	103,4	103,1	98,7	106,8	110,1	112,1
J	102,7	106,0	102,5	102,0	104,9	108,1	115,8
A	104,8	103,4	98,1	101,3	107,3	107,0	117,0
S	100,4	103,4	102,6	102,4	107,4	106,5	116,9
O	103,4	106,6	100,6	101,9	106,1	111,3	116,5
N	103,1	101,0	99,2	104,3	108,2	112,2	
D	98,6	101,9	99,9	106,9	110,7	112,7	

* Revised

1/ Preliminary

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

Base 1995 = 100

Manufacturing divisions and major groups	Weights	Year 2001	Actual indices			Seasonally adjusted indices		
			October	September	October 1/	October	September	October
			2001	2002		2001	2002	
Food and food products	10,7	104,3	109,7	101,1	107,5	103,2	102,1	101,2
Meat, fish, fruit etc.	2,8	120,0	130,6	124,3	138,9	123,1	127,6	131,1
Dairy products	1,4	92,4	94,8	89,9	91,2	90,3	88,6	87,1
Grain mill products	2,1	99,8	111,2	105,3	107,1	105,3	103,5	102,0
Other food products	4,4	100,1	100,2	87,7	92,5	93,5	89,2	86,0
Beverages	4,6	98,5	110,2	107,0	111,6	101,3	102,8	102,9
Total textiles	2,9	96,4	109,1	108,6	119,4	96,5	103,3	106,6
Textiles	1,7	86,3	94,9	100,9	115,5	83,3	94,6	102,3
Other textile products	1,2	110,8	129,1	119,4	125,0	115,2	115,6	112,7
Total wearing apparel	3,6	78,9	96,8	90,6	103,0	78,5	83,1	84,0
Knitted, crocheted articles	0,6	76,5	85,8	83,2	101,6	74,5	83,4	88,1
Wearing apparel	3,0	79,4	99,0	92,1	103,3	79,3	83,0	83,2
Tanning and dressing of leather	0,4	114,8	109,0	125,2	133,8	100,2	132,5	124,0
Footwear	0,9	53,9	58,5	60,1	72,3	46,1	53,9	57,1
Wood and products of wood	1,9	120,8	137,4	139,4	149,8	122,2	133,0	133,3
Sawmilling and planing of wood	0,8	101,5	105,5	114,0	120,6	95,9	107,2	109,6
Products of wood	1,2	133,4	158,3	156,1	169,0	139,5	149,9	148,8
Paper and paper products	5,3	103,5	106,6	126,7	105,5	104,2	121,9	103,2
Total publishing and printing	4,1	83,8	92,7	87,4	92,3	83,3	82,8	83,1
Publishing	1,5	96,2	107,7	85,9	97,7	96,9	83,2	87,6
Printing, recorded media	2,6	76,8	84,2	88,2	89,3	75,7	82,6	80,7
Coke and refined petroleum products	4,2	104,6	108,7	103,9	116,2	106,4	110,5	113,4
Basic chemicals	4,5	140,3	167,0	165,7	166,5	147,6	164,6	147,4
Other chemical products	6,2	106,1	121,4	116,3	123,8	108,2	110,7	111,0
Rubber products	1,4	99,3	105,8	99,2	121,1	99,3	99,7	113,2
Plastic products	3,1	97,0	104,1	118,0	125,3	94,6	113,2	114,7
Glass and glass products	1,0	98,9	112,2	113,2	121,0	103,7	108,9	111,5
Other non-metallic mineral products	3,5	97,9	114,2	111,4	119,3	100,7	105,1	104,9
Basic iron and steel products	7,6	116,2	123,8	130,4	133,8	116,3	132,2	125,9
Basic precious and non-ferrous metal products	3,2	171,8	159,3	176,6	183,6	160,6	178,8	185,6
Fabricated metal products	7,0	111,1	127,2	135,8	144,4	117,8	129,6	133,4
Structural metal products	2,4	101,4	112,3	115,4	113,1	106,5	107,2	106,7
Other fabricated metal product	4,6	116,1	134,8	146,3	160,5	123,6	141,1	147,1
Total machinery and equipment	5,8	109,0	119,8	130,9	130,2	111,9	123,4	121,9
General purpose machinery	2,5	113,0	114,3	145,0	135,7	110,3	128,5	130,4
Special purpose machinery	2,9	104,3	120,8	119,4	123,6	111,7	119,9	114,5
Household appliances	0,4	118,8	147,5	125,5	143,7	123,9	115,3	122,0
Electrical machinery, apparatus	3,4	102,7	116,6	103,5	118,3	102,2	100,3	103,9
Radio, television and communication apparatus	1,0	94,5	92,0	105,7	104,2	88,8	93,3	100,3
Professional equipment	0,5	83,4	95,4	98,9	112,8	90,2	97,1	106,1
Motor vehicles; trailers; parts and accessories	8,0	130,1	171,9	129,3	153,5	149,5	124,6	133,9
Motor vehicles	4,5	127,6	183,0	119,9	141,7	159,8	115,9	123,7
Bodies for motor vehicles; trailers and semi-trailers	0,5	66,7	56,3	65,5	73,1	60,5	70,4	79,4
Parts and accessories	3,0	145,6	176,3	155,2	185,8	150,4	147,7	159,3
Other transport equipment	1,0	122,1	132,6	179,2	168,7	121,8	189,7	152,8
Furniture	1,6	98,2	129,9	110,0	141,6	100,0	102,0	108,7
Other manufacturing divisions	2,6	110,6	138,0	122,7	149,4	111,6	114,6	121,7
Total	100,0	109,0	122,4	120,1	127,7	111,3	116,9	116,5

* Revised

1/ Preliminary

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

Month	1996	1997	1998	1999	2000	2001	2002
Actual values							
J	21 803 249	25 254 480	25 913 926	26 362 762	28 647 234	33 988 164	40 272 591*
F	26 328 500	29 866 793	29 901 544	30 551 283	34 961 840	39 187 078	46 539 563*
M	28 188 286	29 866 272	32 190 538	32 737 212	38 039 203	42 683 525	49 227 081*
A	26 231 967	30 438 604	29 758 879	30 447 208	32 651 220	37 828 090	49 700 139*
M	28 293 052	30 626 091	30 352 835	32 680 898	37 038 716	41 146 142	51 639 273*
J	28 261 416	30 575 542	31 723 893	33 054 424	38 710 074	42 743 527	50 376 040*
J	28 378 392	31 169 707	31 732 667	33 262 293	36 234 329	41 174 318	51 785 228*
A	29 568 761	31 400 042	30 810 619	33 586 437	38 992 758	41 164 534	53 398 880*
S	29 549 724	31 344 644	32 896 327	35 703 435	39 916 972	42 295 572	55 295 972
O	33 070 022	35 902 602	34 970 472	37 386 689	41 775 594	48 601 886	58 631 959 1/
N	33 084 713	33 709 581	34 300 610	38 843 424	43 881 507	49 478 825	
D	26 338 721	28 128 922	29 016 347	32 992 528	37 256 576	42 207 610	
Year	339 096 803	368 283 280	373 568 657	397 608 593	448 106 023	502 499 271	
Seasonally adjusted values							
J	26 401 995	30 503 099	31 058 333	31 412 945	33 872 420	39 815 084	47 364 327
F	26 819 920	30 513 202	30 611 485	31 335 136	35 774 231	40 093 503	47 608 602
M	26 885 137	28 699 703	30 939 865	31 472 656	36 360 705	40 768 512	46 966 548
A	27 718 554	32 095 661	31 477 666	32 267 008	34 692 073	40 281 510	53 280 098
M	28 438 143	30 700 758	30 373 608	32 688 835	36 904 315	40 887 992	51 264 663
J	28 033 575	30 216 219	31 240 134	32 514 520	37 863 275	41 750 970	49 162 516
J	28 373 640	31 184 152	31 885 825	33 571 514	36 673 684	41 755 127	52 620 201
A	28 808 476	30 748 773	30 347 275	33 241 123	38 588 462	40 708 020	52 830 246
S	28 369 511	30 169 112	31 785 638	34 662 306	38 761 095	41 203 734	53 963 507
O	29 573 722	32 172 135	31 389 367	33 794 956	38 083 981	44 465 452	53 794 236
N	29 741 943	30 333 155	30 820 250	34 848 433	39 537 209	44 409 371	
D	29 270 025	30 819 443	31 452 615	35 796 250	40 372 010	45 374 648	

* 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		
		October	September	October 1/	October	September	October
		2001	2001	2002	2001	2002	
Food and food products	67 534 885	6 158 730	7 221 592	7 682 268	5 749 507	7 348 900	7 196 440
Meat, fish, fruit etc.	20 191 117	1 921 119	2 322 904	2 536 144	1 791 743	2 358 113	2 369 618
Dairy products	7 941 251	691 268	773 858	832 075	650 975	773 690	781 328
Grain mill products	17 779 456	1 645 545	2 145 797	2 215 341	1 571 828	2 201 498	2 128 002
Other food products	21 623 061	1 900 798	1 979 033	2 098 708	1 734 961	2 015 599	1 917 492
Beverages	23 706 465	2 119 170	2 301 707	2 390 904	2 030 409	2 250 031	2 304 191
Total textiles	11 022 124	1 066 969	1 210 207	1 354 523	953 552	1 149 741	1 216 710
Textiles	6 965 073	658 937	787 045	933 836	592 562	741 776	842 262
Other textile products	4 057 051	408 032	423 162	420 687	360 990	407 965	374 448
Total wearing apparel	10 927 300	1 096 058	1 125 395	1 306 119	905 180	1 019 301	1 087 710
Knitted, crocheted articles	1 846 405	172 382	188 348	220 105	158 339	187 501	202 236
Wearing apparel	9 080 895	923 676	937 047	1 086 014	746 841	831 800	885 474
Tanning and dressing of leather	2 803 508	235 458	265 840	336 202	213 604	290 021	307 568
Footwear	1 974 373	197 659	209 711	252 465	154 387	184 896	197 367
Wood and products of wood	10 173 522	995 953	1 166 481	1 299 491	884 511	1 109 869	1 157 635
Sawmilling and planing of wood	2 760 863	280 432	310 634	312 945	249 041	293 565	277 574
Products of wood	7 412 659	715 521	855 847	986 546	635 470	816 304	880 061
Paper and paper products	25 164 997	2 225 256	3 033 621	2 498 343	2 203 419	2 789 807	2 474 366
Total publishing and printing	12 318 990	1 182 868	1 230 448	1 364 049	1 048 807	1 190 658	1 206 973
Publishing	5 137 601	481 355	449 597	503 344	432 624	433 353	450 018
Printing, recorded media	7 181 389	701 513	780 851	860 705	616 183	757 305	756 955
Coke and refined petroleum products	36 708 220	3 345 546	3 850 056	4 202 323	3 065 289	3 995 319	3 840 234
Basic chemicals	25 202 064	2 586 260	3 041 002	3 018 899	2 248 646	3 019 140	2 619 111
Other chemical products	29 537 288	2 917 978	3 098 967	3 476 780	2 534 614	3 016 341	3 016 200
Rubber products	5 324 083	491 978	564 425	644 221	446 315	546 386	583 188
Plastic products	12 261 989	1 173 004	1 340 010	1 468 244	1 052 413	1 286 390	1 322 899
Glass and glass products	2 841 584	309 717	326 514	344 504	248 058	296 560	275 077
Other non-metallic mineral products	12 216 261	1 206 726	1 329 566	1 419 528	1 079 949	1 265 706	1 269 379
Basic iron and steel products	35 607 441	3 396 131	4 860 394	4 730 852	3 263 873	4 783 784	4 558 221
Basic precious and non-ferrous metal products	17 972 477	1 423 562	1 868 064	1 902 755	1 387 037	1 785 324	1 864 160
Fabricated metal products	27 694 470	2 643 186	3 182 686	3 370 128	2 434 420	3 057 395	3 105 712
Structural metal products	9 132 860	811 838	995 131	1 014 557	763 759	978 194	956 680
Other fabricated metal product	18 561 610	1 831 348	2 187 555	2 355 571	1 670 660	2 079 201	2 149 033
Total machinery and equipment	21 839 183	2 171 377	2 356 074	2 325 661	2 104 129	2 171 556	2 262 273
General purpose machinery	9 421 686	797 657	1 112 565	954 161	788 080	910 232	945 862
Special purpose machinery	10 085 479	1 124 667	1 040 487	1 102 311	1 111 666	1 067 196	1 093 335
Household appliances	2 332 018	249 053	203 022	269 189	204 383	194 129	223 076
Electrical machinery, apparatus	13 981 876	1 253 530	1 436 357	1 544 176	1 148 363	1 357 190	1 415 699
Radio, television and communication apparatus	3 634 854	272 344	466 942	418 228	288 427	428 295	445 361
Professional equipment	1 657 936	150 965	168 265	200 259	146 818	169 251	195 125
Motor vehicles; trailers; parts and accessories	65 043 901	7 584 519	7 080 677	8 144 220	6 778 732	6 881 822	7 282 660
Motor vehicles	45 822 893	5 712 589	4 897 885	5 759 116	5 148 534	4 805 246	5 193 291
Bodies for motor vehicles; trailers and semi-trailers	1 620 464	144 215	206 091	212 024	138 635	193 877	205 919
Parts and accessories	17 600 544	1 727 715	1 976 701	2 173 080	1 491 563	1 882 699	1 883 450
Other transport equipment	3 373 967	311 628	475 460	451 824	284 223	460 007	409 027
Furniture	6 227 972	704 050	642 906	789 397	521 903	594 744	587 226
Other manufacturing divisions	15 747 541	1 381 264	1 442 605	1 695 596	1 288 867	1 515 074	1 593 723
Total	502 499 271	48 601 886	55 295 972	58 631 959	44 465 452	53 963 507	53 794 236

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	October	September	October 1/	October	September	October
	2001	2002		2001	2002	
Spinning, weaving and finishing of textiles	229 579	332 882	324 196	222 058	344 837	313 771
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	46 285	37 844	38 275	42 489	35 852	34 974
Other textile articles	81 552	91 147	87 364	73 721	83 026	78 451
Knitted and crocheted fabrics and articles	112 425	147 125	162 804	99 839	141 620	144 880
Wearing apparel	753 886	921 839	926 978	681 251	834 455	841 493
Sawmilling and preserving of timber	16 582	22 119	19 454	16 232	20 638	19 009
Veneer sheets, plywood, laminboard, etc.	26 225	35 869	35 716	25 301	35 546	34 569
Builders' carpentry and joinery	46 141	39 313	40 423	40 326	39 536	35 361
Pulp, paper and paperboard	407 266	246 556	269 866	338 927	251 144	221 815
Corrugated paper and paperboard and containers	326 629	375 529	392 058	308 277	370 277	373 577
Paints, varnishes and coatings	24 609	23 515	25 771	21 463	20 977	22 782
Basic iron and steel products	3 589 128	5 097 481	4 983 909	3 496 145	4 979 763	4 861 340
Steel pipe and tube mills	164 430	523 359	531 518	153 122	548 256	500 290
Basic precious and non-ferrous metal products	1 901 095	1 781 919	1 763 869	1 818 041	1 789 989	1 693 682
Metal structures, parts	1 499 805	1 442 136	1 459 322	1 457 315	1 416 277	1 420 388
Cutlery, hand tools and general hardware	18 696	15 124	19 329	17 620	16 498	18 241
Metal containers, e.g. cans and tins	71 209	70 814	79 682	74 403	71 888	83 654
Cables, wire products, springs	69 375	63 574	60 671	65 630	61 413	57 104
Metal fasteners	90 787	84 365	95 808	84 449	84 844	88 527
All other metal products	634 440	887 418	891 760	643 875	913 163	912 415
Domestic appliances	34 044	32 754	34 178	31 525	30 033	31 293
Electric motors, generators and transformers	353 924	541 631	543 725	353 429	527 844	545 881
Insulated wire and cables	310 428	408 181	377 172	302 713	394 455	369 865
Accumulators, primary cells and primary batteries	11 930	5 707	5 603	11 918	5 990	5 627
Television, radio and communication apparatus	1 907 859	2 102 473	2 047 661	1 989 770	2 170 980	2 156 289
Motor vehicles	2 350 294	2 631 816	2 475 037	2 403 116	2 560 488	2 523 344
Parts and accessories for motor vehicles	487 788	581 620	316 346	540 179	588 448	351 608
Furniture	529 011	402 666	516 526	358 133	308 978	345 337

* 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 detailed 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 to international practice, the indices have to be rebased every five years to a new base year. The indices in this statistical release have been calculated on the basis of 1995=100 since November 1997. Both actual and seasonally adjusted figures are presented.
 - 3 In order to improve timeliness, some information for the current month (October) have been estimated due to late response. These estimates will be revised in the future statistical release(s) as soon as more up-to-date information is available.
- Scope of the survey**
- 4 This survey covers manufacturing establishments conducting activities regarding -
 - the manufacturing, processing, making or packing of products;
 - the slaughtering of animals, including poultry; and
 - installation, assembly, completion, repair and related work.
- Classification**
- 5 The 1993 edition of the Standard Industrial Classification of all Economic Activities (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 International Standard Industrial Classification of all Economic Activities (ISIC) with suitable adaptations for local conditions. Statistics in this publication are presented at SIC division, major group and subgroup 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 6).
- Survey methodology and design**
- 7 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.
 - 8 The survey is collected by mail each month from a sample of approximately 2 330 manufacturing establishments.

- 9 The above-mentioned measurement method in paragraph 7 was followed in 38 of the various major groups. On account of certain considerations more appropriate indicators were used for the seven 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, bodies 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 and bodies for motor vehicles are calculated on the basis of physical quantities. The major group tobacco products is included under 'Other' manufacturing industries. This method is also 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). In the case of "other transport equipment" units such as ships and aircraft are completed over a relatively long period and establishments can often not report charges for work done continuously. The sales and charges for work done are only shown after completion of the product, which is not a true reflection of the real production for the month under consideration. Therefore the index for "other transport equipment" is calculated monthly according to man-hours worked.

Sample design

- 10 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

- 11 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.
- 12 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	13	<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 to 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	14	<p>Seasonally adjusted estimates of all items 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	15	<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	16	<p>Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.</p>
Historical data	17	<p>More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups and the value of sales for the period January 1990 to September 1999 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.</p>
Related publications	18	<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: 1995=100, January 1990 to September 1999. • 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	19	In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as: computer printouts, diskette and CD. Generally a charge is made for providing unpublished statistics.																		
Rounding-off of figures	20	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	21	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.																		
	22	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
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Technical notes

Response rates The response rate for the survey on manufacturing production and sales for October 2002 is 80,7%.
The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for October 2002

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	306	83,7
Beverages	65	89,2
Textile	111	84,7
Total wearing apparel	127	89,0
Tanning and dressing of leather	26	96,2
Footwear	21	90,5
Wood and products of wood	122	73,0
Paper and paper products	93	74,2
Total publishing and printing	89	66,3
Coke and refined petroleum products	30	76,7
Basic chemicals	76	92,1
Other chemical products	108	80,6
Rubber products	18	100,0
Plastic products	88	78,4
Glass and glass products	14	85,7
Other non-metallic mineral products	133	75,2
Basic iron and steel products	42	83,3
Basic precious and non-ferrous metal products	23	73,9
Fabricated metal products	230	77,8
Total machinery and equipment	181	75,7
Electrical machinery, apparatus	76	86,8
Radio, television and communication apparatus	23	73,9
Professional equipment	28	75,0
Motor vehicles; trailers; parts and accessories	113	93,8
Other transport equipment	35	80,0
Furniture	59	79,7
Other manufacturing industries	82	69,5
Total	2 319	80,7

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 1995. The production in the base period is set at 100.
Industry	An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the System of National Accounts (SNA) in the same way as in the Standard Industrial Classification of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).
Intercensal period	Intercensal period is the period between January of the one census year and January of the next census year.
Intermediate consumption	Intermediate consumption includes - <ul style="list-style-type: none">• purchases and transfers-in of materials;• payments to other establishments for work done;• other direct factory costs;• rent and leasing paid;• head office charges;• royalties, copyright, trade names and patent rights paid;• advertising;• insurance premiums;• services; and• secretarial and administrative fees.
Output	Output is the aggregate value of goods manufactured and work done. Output includes - <ul style="list-style-type: none">• sales and transfers-out of own manufactures, factory waste and stocks of factored goods;• goods;• repairs;• installation, erection and assembly;• sundry trading revenue;• sales of factored goods minus purchases of factored goods;• rent and leasing received;• royalties received;• difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods;• head office charges; and• other revenue.

Output excludes –

- excise and customs duty paid.

Value added

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

Sales

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

Weight

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

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