

P3041.2

**Manufacturing: production and
sales**

February 2002

Embargo: 13:00

Date: 9 April 2002

Key figures as at the end of February 2002

Actual estimates		February 2002	% change between February 2001 and February 2002	% change between December 2000 to February 2001 and December 2001 to February 2002	% change between January 2001 to February 2001 and January 2002 to February 2002
volume of manufacturing index	Physical production (1995=100)	111,7	+5,5	+4,7	+5,3
	Total value of products (R million)	46 465,1	+18,6	+16,6	+18,7

Seasonally adjusted estimates		February 2002	% change between January 2002 and February 2002	% change between September 2001 to November 2001 and December 2001 to February 2002
volume of manufacturing index	Physical production (1995=100)	113,6	-0,4	+2,7
	Total value of products (R million)	47 600,3	+0,2	+8,2

Key findings as at the end of February 2002

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the three months ended February 2002 reflected an increase of 2,7% after seasonal adjustment compared with the previous three months. Higher production was reported by 19 of the 27 manufacturing divisions.

The major contributor to the increase of 2,7% after seasonal adjustment in the total manufacturing production was the basic iron and steel products division (contributing +0,7 of a percentage point to total manufacturing production), followed by the food and food products (+0,4 of a percentage point), 'other' chemical products (+0,4 of a percentage point), basic chemicals (+0,3 of a percentage point), plastic products (+0,3 of a percentage point) and 'other' manufacturing industries (+0,3 of a percentage point) divisions (cf. table A).

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 December 2002 to February 2002	Quarterly percentage change (December 2002 to February 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	108,7	+3,4	+0,4
Beverages	4,6	103,0	+3,3	+0,2
Total textiles	2,9	100,9	+3,2	+0,1
Total wearing apparel	3,6	81,4	+3,6	+0,1
Tanning and dressing of leather	0,4	97,8	+1,7	+0,0
Footwear	0,9	55,5	+12,3	+0,1
Wood and products of wood	1,9	128,7	+5,2	+0,1
Paper and paper products	5,3	106,3	+3,9	+0,2
Total publishing and printing	4,1	80,1	-6,3	-0,3
Coke and refined petroleum products	4,2	111,3	+5,5	+0,2
Basic chemicals	4,5	147,4	+7,5	+0,3
Other chemical products	6,2	114,8	+7,1	+0,4
Rubber products	1,4	109,3	+17,1	+0,2
Plastic products	3,1	106,9	+10,9	+0,3
Glass and glass products	1,0	106,6	+6,2	+0,1
Other non-metallic mineral products	3,5	91,1	-2,1	-0,1
Basic iron and steel products	7,6	129,4	+9,6	+0,7
Basic precious and non-ferrous metal products	3,2	173,4	+5,3	+0,2
Fabricated metal products	7,0	108,0	-8,7	-0,6
Total machinery and equipment	5,8	106,2	-2,0	-0,1
Electrical machinery, apparatus	3,4	99,9	-2,5	-0,1
Radio, television and communication apparatus	1,0	105,0	-4,5	-0,0
Professional equipment	0,5	96,1	+2,5	+0,0
Motor vehicles; trailers; parts and accessories	8,0	148,1	-1,9	-0,1
Other transport equipment	1,0	122,0	-0,9	-0,0
Furniture	1,6	104,8	+7,3	+0,1
Other manufacturing divisions	2,6	122,4	+12,7	+0,3
Total	100,0	114,0	+2,7	+2,7

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 INCREASE

The total value of sales of manufactured products at current prices for the three months ended February 2002 reflected an increase of 8,2% (+R10 598 million) after seasonal adjustment compared with the previous three months. Higher manufacturing sales were reported by 23 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 February 2002 reflected an increase of 16,6% (+R18 297 million) compared with the three months ended February 2001. Higher manufacturing sales were reported by 24 of the 27 manufacturing divisions during this period.

The increase of 8,2% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended February 2002 compared with the previous three months was mainly due to large increases reported by the basic precious and non-ferrous metal products (+32,5% or +R1 365 million), basic iron and steel products (+14,7% or +R1 403 million), coke and refined petroleum products (+13,7% or +R1 252 million), basic chemicals (+12,6% or +R797 million), food and food products (+11,1% or +R1 916 million) and 'other' chemical products (+9,7% or +R727 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 December 2002 to February 2002	Difference in seasonally adjusted sales of manufacturing divisions between December 2002 to February 2002 and December 2001 to February 2001
	December 2002	February 2002		
	R'000			R'000
Food and food products	19 183 372		+11,1	1 916 472
Beverages	6 082 171		-0,3	-19 597
Total textiles	2 983 151		+3,5	100 754
Total Wearing apparel	2 992 246		+8,1	223 778
Tanning and dressing of leather	663 876		+8,7	53 064
Footwear	522 310		+8,8	42 303
Wood and products of wood	2 852 895		+6,9	183 026
Paper and paper products	7 003 667		+8,7	562 820
Total publishing and printing	3 105 343		-3,1	-98 482
Coke and refined petroleum products	10 400 248		+13,7	1 251 893
Basic chemicals	7 133 727		+12,6	797 274
Other chemical products	8 216 515		+9,7	726 884
Rubber products	1 514 330		+17,5	225 164
Plastic products	3 533 342		+12,2	384 887
Glass and glass products	840 644		+16,7	120 452
Other non-metallic mineral products	3 046 864		+5,2	150 387
Basic iron and steel products	10 976 118		+14,7	1 403 313
Basic precious and non-ferrous metal products	5 564 428		+32,5	1 364 914
Fabricated metal products	7 475 240		+2,8	204 776
Total machinery and equipment	5 706 677		+2,6	143 102
Electrical machinery, apparatus	3 626 324		+2,9	102 877
Radio, television and communication apparatus	988 972		+5,8	54 015
Professional equipment	506 076		+22,1	91 492
Motor vehicles; trailers; parts and accessories	18 265 907		-0,7	-134 641
Other transport equipment	810 575		-3,6	-30 092
Furniture	1 689 906		+6,3	100 525
Other manufacturing industries	4 503 252		+17,7	676 915
Total	140 188 177		+8,2	10 598 276

The major contributors to the increase of 16,6% in the actual value of sales of manufactured products at current prices for the three months ended February 2002 compared with the three months ended February 2001 were the food and food products (+2,8 percentage points or +R3 129 million), motor vehicles, trailers, parts and accessories (+2,4 percentage points or +R2 598 million), basic iron and steel products (+2,2 percentage points or +R2 421 million), basic precious and non-ferrous metal products (+1,2 percentage points or +R1 320 million), 'other' chemical products (+1,1 percentage points or +R1 264 million) and coke and refined petroleum products (+1,0 percentage point or +R1 048 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 December 2001 to February 2001	Percentage change between December 2000 to February 2001 and December 2001 to February 2002	Contribution (percentage points) to the percentage change in the total value of manufactured products 1/	Difference in sales of manufacturing divisions between December 2000 to February 2001 and December 2001 to February 2002
				R'000
Food and food products	13,8	20,6	2,8	3 128 850
Beverages	5,6	11,1	0,6	682 626
Total textiles	1,9	14,3	0,3	294 292
Total Wearing apparel	1,9	15,2	0,3	311 675
Tanning and dressing of leather	0,6	-12,3	-0,1	-78 582
Footwear	0,3	8,2	0,0	28 375
Wood and products of wood	1,8	23,0	0,4	457 610
Paper and paper products	5,3	12,0	0,6	697 565
Total publishing and printing	2,5	2,5	0,1	71 106
Coke and refined petroleum products	8,2	11,6	1,0	1 047 917
Basic chemicals	5,4	14,7	0,8	876 395
Other chemical products	5,6	20,4	1,1	1 264 808
Rubber products	0,9	28,8	0,3	296 181
Plastic products	2,3	21,4	0,5	545 330
Glass and glass products	0,5	27,0	0,1	156 536
Other non-metallic mineral products	2,0	13,6	0,3	304 037
Basic iron and steel products	7,2	30,5	2,2	2 420 741
Basic precious and non-ferrous metal products	3,6	33,0	1,2	1 320 402
Fabricated metal products	5,1	16,8	0,9	940 471
Total machinery and equipment	4,3	7,1	0,3	336 412
Electrical machinery, apparatus	2,8	2,1	0,1	65 170
Radio, television and communication apparatus	0,9	-8,9	-0,1	-92 869
Professional equipment	0,3	25,5	0,1	93 622
Motor vehicles; trailers; parts and accessories	11,9	19,8	2,4	2 598 167
Other transport equipment	0,7	-1,9	-0,0	-13 971
Furniture	1,0	15,0	0,2	169 033
Other manufacturing divisions	3,5	9,7	0,3	375 507
Total	100,0	16,6	16,6	18 297 406

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

the

corresponding

period,

divided

by

100.

Contents

	Page
Notes	7
.....	
.....	
Tables	
Table 1 Indices of the physical volume of manufacturing production: Total	8
.....	
Table 2 Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups	9
.....	
.....	
Table 3 Value of sales of the manufacturing industry: Total (R'000)	10
.....	
Table 4 Value of sales of manufactured products according to manufacturing divisions and major groups (R'000)	11
.....	
.....	
Table 5 Value of unfilled orders according to selected manufacturing subgroups (R'000)	12
.....	
Additional information	
Explanatory notes	13
.....	
Technical notes	17
.....	
.....	
Glossary	18
.....	
.....	
For more information	20
.....	

Notes

Forthcoming issues	Issue	Expected release date
	March 2002	7 May 2002
	April 2002	11 June 2002
	May 2002	9 July 2002
	June 2002	6 August 2002
	July 2002	10 September 2002
	August 2002	8 October 2002
	September 2002	12 November 2002
	October 2002	10 December 2002
	November 2002	7 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	86,7	88,8	94,7	99,5
F	96,7	103,1	101,1	98,0	103,2	105,9	111,7 1/
M	102,6	102,5	102,7	101,4	109,0	111,8	
A	96,4	105,5	96,3	94,8	93,2	100,7	
M	104,1	106,2	101,1	101,1	106,5	108,5	
J	102,9	104,9	104,5	100,5	110,4	113,7	
J	104,7	108,2	104,4	104,3	107,2	109,1	
A	107,8	105,8	99,9	103,5	108,5	108,6	
S	105,2	108,2	106,8	107,0	112,4	112,4	
O	115,8	119,1	111,7	112,9	117,0	124,2	
N	114,4	111,7	109,8	115,5	120,7	125,8	
D	83,7	86,9	85,3	90,5	94,7	98,1	
Year	101,5	104,3	101,1	101,4	106,0	109,5	
Seasonally adjusted indices							
J	99,0	105,4	104,6	100,4	101,9	108,6	114,1
F	98,6	105,2	102,9	99,8	104,8	107,4	113,6
M	99,4	100,2	100,8	99,4	106,8	109,7	
A	102,1	111,2	101,7	100,2	99,3	107,6	
M	103,9	105,3	100,1	100,3	105,7	107,9	
J	101,6	103,3	102,7	98,5	107,8	110,8	
J	102,5	105,7	102,0	102,2	105,1	107,1	
A	104,6	103,2	97,9	101,9	107,1	107,3	
S	100,2	103,2	102,1	102,5	107,8	107,9	
O	103,3	106,4	100,4	101,8	105,9	112,5	
N	103,0	100,8	99,0	103,9	108,2	112,5	
D	98,7	102,1	100,0	106,2	110,6	114,2	

* 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	Actual indices			Seasonally adjusted indices					
			2001	February	January	February1/	February	January	February		
				2001		2002		2001		2002	
Food and food products	10,7	104,8	95,0	89,4	103,3	105,1	104,2	115,3			
Meat, fish, fruit etc.	2,8	119,8	120,8	109,0	121,7	114,2	116,5	116,2			
Dairy products	1,4	90,9	91,1	90,6	83,6	95,4	90,0	87,3			
Grain mill products	2,1	99,8	88,3	98,6	103,5	94,4	108,4	110,5			
Other food products	4,4	101,8	82,9	72,0	97,5	107,3	98,5	125,5			
Beverages	4,6	97,2	87,3	93,0	99,7	94,0	100,3	107,0			
Total textiles	2,9	96,4	95,2	73,0	100,9	94,5	102,3	100,4			
Textiles	1,7	86,3	81,0	60,8	88,0	80,0	85,7	87,4			
Other textile products	1,2	110,8	115,4	90,4	119,1	115,0	125,9	118,9			
Total wearing apparel	3,6	78,9	73,4	51,8	82,9	74,5	78,8	84,4			
Knitted, crocheted articles	0,6	76,5	70,3	51,5	81,5	68,8	75,1	80,0			
Wearing apparel	3,0	79,4	74,0	51,9	83,2	75,6	79,5	85,2			
Tanning and dressing of leather	0,4	114,8	126,0	71,2	86,0	126,0	89,8	86,2			
Footwear	0,9	53,9	55,2	39,5	46,1	56,2	61,2	47,2			
Wood and products of wood	1,9	120,8	121,7	95,8	127,9	120,3	120,8	126,5			
Sawmilling and planing of wood	0,8	101,5	109,6	82,8	112,9	106,1	108,4	108,9			
Products of wood	1,2	133,4	129,6	104,4	137,7	129,7	128,9	138,0			
Paper and paper products	5,3	103,5	96,4	104,5	105,2	103,0	106,1	112,0			
Total publishing and printing	4,1	83,8	79,7	70,8	78,8	84,2	81,6	83,2			
Publishing	1,5	96,2	92,4	73,4	90,9	95,2	77,1	93,5			
Printing, recorded media	2,6	76,8	72,5	69,3	72,0	78,1	84,1	77,4			
Coke and refined petroleum products	4,2	104,6	104,5	118,0	102,7	105,4	111,3	103,8			
Basic chemicals	4,5	140,3	146,3	159,0	142,5	141,9	164,2	139,2			
Other chemical products	6,2	105,3	100,5	97,5	116,7	101,5	114,9	118,0			
Rubber products	1,4	99,3	113,3	99,1	131,2	99,7	122,9	115,5			
Plastic products	3,1	97,0	102,0	87,3	109,8	97,2	111,1	104,6			
Glass and glass products	1,0	98,9	96,7	93,6	102,8	97,3	109,3	103,8			
Other non-metallic mineral products	3,5	91,3	85,7	73,9	87,6	88,4	88,1	90,5			
Basic iron and steel products	7,6	115,3	105,2	111,5	117,2	110,9	116,4	123,6			
Basic precious and non-ferrous metal products	3,2	166,5	143,9	166,3	171,0	148,3	178,8	176,5			
Fabricated metal products	7,0	110,8	105,6	98,3	110,8	105,0	112,6	110,2			
Structural metal products	2,4	100,8	86,0	83,2	92,4	89,2	97,0	96,0			
Other fabricated metal product	4,6	116,1	115,6	106,0	120,2	113,1	120,6	117,6			
Total machinery and equipment	5,8	108,7	112,6	91,7	106,2	108,4	107,1	102,0			
General purpose machinery	2,5	112,3	120,0	92,2	112,3	118,8	114,7	110,0			
Special purpose machinery	2,9	104,3	105,7	92,4	97,8	98,0	98,4	91,2			
Household appliances	0,4	118,8	116,9	83,6	128,8	119,1	123,7	130,7			
Electrical machinery, apparatus	3,4	102,7	105,1	86,6	94,7	104,5	102,8	94,2			
Radio, television and communication apparatus	1,0	110,2	124,6	89,2	98,5	121,9	101,1	96,4			
Professional equipment	0,5	89,4	96,0	83,9	101,9	91,8	92,8	96,9			
Motor vehicles; trailers; parts and accessories	8,0	141,3	142,1	126,1	150,2	136,2	150,7	143,7			
Motor vehicles	4,5	127,6	132,5	108,2	130,1	124,6	138,9	121,6			
Bodies for motor vehicles; trailers and semi-trailers	0,5	66,7	86,4	35,8	67,2	80,5	50,2	62,3			
Parts and accessories	3,0	175,7	166,8	169,6	195,6	163,7	186,7	191,7			
Other transport equipment	1,0	117,6	109,7	125,5	112,2	117,0	120,9	119,8			
Furniture	1,6	98,3	92,6	72,7	92,6	96,1	111,1	96,5			
Other manufacturing divisions	2,6	110,6	111,7	84,4	122,2	115,3	120,8	127,5			
Total	100,0	109,5	105,9	99,5	111,7	107,4	114,1	113,6			

* 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	26 410 458	28 615 702	33 979 805	40 359 772
F	26 328 500	29 866 793	29 901 544	30 607 558	35 182 383	39 163 157	46 465 107 1/
M	28 188 286	29 866 272	32 190 538	32 788 344	38 036 042	42 621 314	
A	26 231 967	30 438 604	29 758 879	30 508 382	32 686 461	37 420 608	
M	28 293 052	30 626 091	30 352 835	32 737 449	37 013 710	41 072 835	
J	28 261 416	30 575 542	31 723 893	33 126 289	38 674 835	42 630 432	
J	28 378 392	31 169 707	31 732 667	33 429 319	36 229 087	41 030 911	
A	29 568 761	31 400 042	30 810 619	33 740 922	38 967 402	41 065 801	
S	29 549 724	31 344 644	32 896 327	35 884 855	39 923 901	42 266 524	
O	33 070 022	35 902 602	34 970 472	37 448 797	41 761 506	48 498 542	
N	33 084 713	33 709 581	34 300 610	38 909 651	43 868 608	49 328 335	
D	26 338 721	28 128 922	29 016 347	33 048 575	37 232 980	41 848 469	
Year	339 096 803	368 283 280	373 568 657	398 640 599	448 192 617	500 926 733	
Seasonally adjusted values							
J	26 410 883	30 515 237	31 074 828	31 486 490	33 840 324	39 779 100	47 522 683
F	26 813 161	30 510 902	30 610 818	31 409 097	35 978 338	40 079 786	47 600 286
M	26 879 658	28 694 913	30 928 311	31 484 288	36 330 788	40 678 483	
A	27 733 571	32 129 217	31 540 198	32 452 936	34 969 925	40 191 796	
M	28 447 438	30 723 692	30 409 151	32 820 023	37 056 046	41 109 083	
J	28 024 752	30 202 165	31 241 949	32 574 371	37 807 065	41 610 265	
J	28 361 966	31 150 781	31 825 195	33 601 764	36 536 330	41 483 725	
A	28 803 509	30 736 857	30 333 835	33 331 453	38 537 256	40 591 250	
S	28 347 110	30 134 832	31 734 842	34 747 708	38 656 911	41 013 411	
O	29 573 226	32 166 876	31 377 784	33 797 764	37 987 116	44 277 250	
N	29 749 464	30 337 746	30 834 006	34 938 069	39 533 194	44 299 240	
D	29 278 760	30 834 765	31 460 128	35 890 066	40 344 884	45 065 208	

* 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		
		February	January	February 1/	February	January	February
		2001	2002		2001	2002	
		2001	2002	2002	2001	2002	2002
Food and food products	67 088 642	5 131 385	5 953 987	6 250 043	5 449 130	6 488 658	6 633 537
Meat, fish, fruit etc.	20 191 117	1 390 271	1 742 084	1 864 702	1 435 175	1 995 052	1 941 614
Dairy products	7 600 864	633 672	635 055	640 902	657 844	670 220	663 398
Grain mill products	17 569 435	1 225 784	1 741 608	1 743 253	1 316 798	1 930 744	1 871 423
Other food products	21 727 226	1 881 658	1 835 240	2 001 186	2 039 313	1 892 642	2 157 102
Beverages	23 706 465	1 854 167	1 856 664	1 963 518	2 017 963	1 921 940	2 119 202
Total textiles	11 024 005	883 709	696 085	988 816	896 120	1 035 914	1 003 930
Textiles	6 965 073	538 783	426 790	614 043	536 632	626 761	613 348
Other textile products	4 058 932	344 926	269 295	374 773	359 488	409 153	390 582
Total wearing apparel	10 983 315	822 787	586 268	955 351	850 920	992 966	990 206
Knitted, crocheted articles	1 846 405	136 383	99 289	166 606	136 850	164 454	168 248
Wearing apparel	9 136 910	686 404	486 979	788 745	714 070	828 512	821 958
Tanning and dressing of leather	2 724 417	232 220	175 764	218 529	231 897	227 227	218 443
Footwear	1 974 373	150 352	93 949	158 494	158 322	175 763	167 854
Wood and products of wood	10 184 542	780 407	735 602	915 999	803 193	924 118	940 455
Sawmilling and planing of wood	2 760 863	218 398	191 197	278 818	216 944	259 201	276 627
Products of wood	7 423 679	562 009	544 405	637 181	586 249	664 917	663 828
Paper and paper products	25 169 310	1 907 490	2 146 674	2 308 434	2 028 481	2 363 515	2 454 979
Total publishing and printing	12 318 990	920 223	925 072	1 002 378	960 589	1 037 696	1 046 239
Publishing	5 137 601	392 244	365 132	403 648	403 215	377 365	413 644
Printing, recorded media	7 181 389	527 979	559 940	598 730	557 374	660 331	632 595
Coke and refined petroleum products	37 699 329	2 936 303	3 345 126	3 507 241	3 095 635	3 463 063	3 699 222
Basic chemicals	25 095 683	2 068 794	2 392 711	2 362 262	2 066 853	2 571 440	2 379 356
Other chemical products	29 166 685	2 209 970	2 410 915	2 626 688	2 297 222	2 822 646	2 740 044
Rubber products	5 339 739	455 158	384 406	572 279	420 775	515 001	528 223
Plastic products	12 315 996	956 302	952 543	1 173 617	968 263	1 179 737	1 190 887
Glass and glass products	2 841 584	228 452	225 301	260 323	234 981	291 919	269 027
Other non-metallic mineral products	11 344 959	868 894	813 933	966 841	911 063	1 013 834	1 016 534
Basic iron and steel products	35 607 441	2 642 920	3 300 515	3 605 192	2 716 893	3 714 164	3 712 797
Basic precious and non-ferrous metal products	17 972 477	1 256 587	1 529 115	1 416 648	1 358 561	1 898 594	1 543 777
Fabricated metal products	27 331 137	2 074 805	2 142 200	2 646 717	2 068 592	2 630 746	2 631 764
Structural metal products	8 748 171	593 742	646 255	763 004	636 322	881 180	812 459
Other fabricated metal product	18 582 966	1 481 063	1 495 945	1 883 713	1 432 271	1 749 566	1 819 305
Total machinery and equipment	21 651 027	1 553 875	1 450 585	1 932 643	1 584 360	1 889 579	1 965 264
General purpose machinery	9 233 530	692 751	678 346	826 683	768 376	902 354	921 839
Special purpose machinery	10 085 479	683 125	641 848	880 629	633 775	772 751	812 774
Household appliances	2 332 018	177 999	130 391	225 331	182 209	214 474	230 651
Electrical machinery, apparatus	13 958 527	1 166 801	972 135	1 199 065	1 144 292	1 215 755	1 178 579
Radio, television and communication apparatus	3 634 854	402 222	285 542	386 419	365 658	317 448	347 480
Professional equipment	1 631 276	134 662	146 922	165 022	132 327	165 199	162 423
Motor vehicles; trailers; parts and accessories	65 043 901	5 267 280	4 954 544	6 412 199	5 144 862	6 279 338	6 252 723
Motor vehicles	45 822 893	3 574 418	3 442 951	4 607 349	3 518 491	4 513 781	4 529 339
Bodies for motor vehicles; trailers and semi-trailers	1 620 464	139 246	96 119	133 493	142 117	140 198	135 235
Parts and accessories	17 600 544	1 553 616	1 415 474	1 671 357	1 484 254	1 625 359	1 588 148
Other transport equipment	3 129 665	245 393	224 940	310 584	225 521	279 145	284 339
Furniture	6 227 972	472 058	381 388	523 034	504 221	603 754	561 231
Other manufacturing divisions	15 760 422	1 539 941	1 276 886	1 636 771	1 443 091	1 503 525	1 561 771
Total	500 926 733	39 163 157	40 359 772	46 465 107	40 079 786	47 522 683	47 600 286

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	February	January	February 1/	February	January	February
	2001	2002		2001	2002	
Spinning, weaving and finishing of textiles	201 634	220 446	232 264	193 722	223 230	223 084
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	30 280	32 440	34 628	26 674	30 791	30 443
Other textile articles	56 506	84 188	81 002	56 784	88 861	82 163
Knitted and crocheted fabrics and articles	119 217	95 473	107 866	113 669	98 218	102 275
Wearing apparel	635 490	686 492	768 904	677 192	720 567	822 134
Sawmilling and preserving of timber	24 878	17 513	14 694	25 039	17 068	14 855
Veneer sheets, plywood, laminboard, etc.	27 721	21 390	18 772	27 440	22 635	18 443
Builders' carpentry and joinery	38 028	45 832	41 342	42 268	46 207	45 943
Pulp, paper and paperboard	488 546	342 909	288 493	521 113	399 727	305 479
Corrugated paper and paper-board and containers	409 027	325 926	288 232	393 558	313 250	278 267
Paints, varnishes and coatings	26 565	30 374	24 967	27 395	29 092	25 878
Basic iron and steel products	2 919 754	3 472 237	3 813 820	2 858 642	3 421 989	3 737 444
Steel pipe and tube mills	180 611	212 391	236 492	187 024	213 184	246 609
Basic precious and non-ferrous metal products	1 449 533	1 615 658	1 703 741	1 477 233	1 723 727	1 737 258
Metal structures, parts	1 308 996	1 068 249	1 081 381	1 408 433	1 119 331	1 164 766
Cutlery, hand tools and general hardware	26 531	42 651	37 020	25 943	37 628	36 266
Metal containers, e.g. cans and tins	74 472	97 705	69 475	73 586	89 792	68 932
Cables, wire products, springs	68 598	45 296	54 812	66 256	49 839	52 808
Metal fasteners	56 760	80 128	75 979	54 564	73 556	73 442
All other metal products	616 928	716 992	703 504	639 751	758 429	723 160
Domestic appliances	19 185	28 135	25 058	20 270	29 261	26 738
Electric motors, generators and transformers	366 533	370 517	365 336	389 336	396 129	389 265
Insulated wire and cables	334 885	299 776	296 854	323 828	286 257	287 433
Accumulators, primary cells and primary batteries	13 594	9 373	9 681	14 126	9 972	10 003
Television, radio and communication apparatus	2 112 651	1 823 625	1 630 074	2 131 664	2 087 199	1 642 151
Motor vehicles	2 451 369	2 603 433	2 249 844	2 623 685	2 554 335	2 431 043
Parts and accessories for motor vehicles	276 967	347 512	422 233	282 240	352 296	429 906
Furniture	223 394	207 249	201 083	255 740	232 870	229 294

* 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 (February) 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 2 400 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** In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined as follows:

A weight is calculated for every major group according to the value added of the relevant major group compared with the value added 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.

Seasonal adjustment

- 14** 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.

- Trend cycle** 15 The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.
- Reliability of estimates** 16 Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.
- Historical data** 17 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.
- Related publications** 18 Users may also wish to refer to the following publications which are available from Stats SA -
- P3041.3 - Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 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

GDP	Gross Domestic Product
ISIC	International Standard Classification of all Economic Activities
PPI	Production Price Index
SIC	Standard Industrial Classification of all Economic Activities
SNA	System of National Accounts
Stats SA	Statistics South Africa
TBVC states	Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states
1/	Preliminary figures
*	Revised figures

Technical notes

Response rates The response rate for the survey on manufacturing production and sales for February 2002 is 76,6%. The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for February 2002

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	310	77,7
Beverages	67	91,0
Textile	111	87,4
Total wearing apparel	133	85,7
Tanning and dressing of leather	26	76,9
Footwear	21	71,4
Wood and products of wood	120	70,0
Paper and paper products	93	68,8
Total publishing and printing	89	65,2
Coke and refined petroleum products	30	70,0
Basic chemicals	78	84,6
Other chemical products	108	73,1
Rubber products	19	94,7
Plastic products	82	74,4
Glass and glass products	14	71,4
Other non-metallic mineral products	133	78,9
Basic iron and steel products	42	76,2
Basic precious and non-ferrous metal products	24	66,7
Fabricated metal products	231	77,1
Total machinery and equipment	184	75,0
Electrical machinery, apparatus	75	62,7
Radio, television and communication apparatus	20	70,0
Professional equipment	26	65,4
Motor vehicles; trailers; parts and accessories	118	76,3
Other transport equipment	38	84,2
Furniture	61	82,0
Other manufacturing industries	82	74,4
Total	2 335	76,6

Glossary

Enterprise

An enterprise (firm) is a legal entity consisting of one or more establishments. The establishments need not necessarily all be manufacturing establishments, but some may be classifiable as other industries of the economy, such as wholesale trade, retail trade, motor trade and construction.

Establishment

An establishment is defined as an enterprise (firm), or part of an enterprise, that is situated at a single location and in which only a single (non-ancillary) productive activity is carried out or in which the principal productive activity accounts for most of the value added.

Index of physical volume of manufacturing production

The index of physical volume of manufacturing production or a production index is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 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 -

- 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 -

- 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.

FOR MORE INFORMATION

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English only.

Stats SA has copyright on this publication. Users may apply the information as they wish, provided that they acknowledge Stats SA as the source of the basic data wherever they process, apply, utilise, publish or distribute the data; and also that they specify that the relevant application and analysis (where applicable) result from their own processing of the data.

Advance release calendar

An advance release calendar is disseminated on <http://www.statssa.gov.za>

Stats SA products

A complete set of Stats SA publications is available at the Stats SA Library and the following libraries:

National Library of South Africa, Pretoria Division
National Library of South Africa, Cape Town Division
Natal Society Library, Pietermaritzburg
Library of Parliament, Cape Town
Bloemfontein Public Library
Johannesburg Public Library
Eastern Cape Library Services, King William's Town
Central Regional Library, Pietersburg
Central Reference Library, Nelspruit
Central Reference Collection, Kimberley
Central Reference Library, Mmabatho

Stats SA also provides a subscription service.

Electronic services

A large range of data are available via on-line services, diskette and computer printouts. For more details about our electronic data services, contact (012) 310 8600/8095/8390/8351.

You can visit us on the Internet at: <http://www.statssa.gov.za>

Enquiries

Telephone number: (012) 310 8600/ 8095/8390/8351 (user enquiries)
 (012) 310 8233/310 8669 (technical enquiries)
 (012) 310 8161 (publications)
 (012) 310 8490 (library)

Fax number: (012) 310 8332

E-mail address: Dawnvd@statssa.pwv.gov.za
Teresam@statssa.pwv.gov.za

Postal address: Private Bag X44, Pretoria, 0001
