

Manufacturing: production and sales

January 2002

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Key figures as at the end of January 2002

Actual estimates		January 2002	% change between January 2001 and January 2002	% change between November 2000 to January 2001 and November 2001 to January 2002
of	Physical volume			
	manufacturing production index (1995=100)	99,1	+4,6	+4,2
sales	Total value of			
	of manufactured products (R million)	41 201,1	+21,3	+15,7

Seasonally adjusted estimates		January 2002	% change between December 2001 and January 2002	% change between August 2001 to October 2001 and November 2001 to January 2002
	Physical volume of manufacturing production index (1995=100)	113,5	-0,7	+3,9
sales	Total value of			
	of manufactured products (R million)	48 363,8	+7,2	+9,6

Key findings as at the end of January 2002

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the three months ended January 2002 reflected an increase of 3,9% after seasonal adjustment compared with the previous three months. Higher production was reported by 22 of the 27 manufacturing divisions.

The major contributor to the increase of 3,9% after seasonal adjustment in the total manufacturing production was the motor vehicles, trailers, parts and accessories division (contributing +0,8 of a percentage point to total manufacturing production), followed by the basic iron and steel products (+0,6 of a percentage point), coke and refined petroleum products (+0,3 of a percentage point), basic chemicals (+0,3 of a percentage point), 'other' chemical products (+0,3 of a percentage point) and 'other' manufacturing industries (+0,3 of a percentage point) divisions (cf. table A).

Figure 1 – Index of the physical volume of manufacturing production

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 year 1995 (Weights)	Average seasonally adjusted production index for the three November 2002 to January 2002	Quarterly percentage change (November 2002 to January 2002 with the preceding three months)	Contribution (percentage points) to the seasonally adjusted quarterly change in total manufacturing production 1/
Food and food products	10,7	106,5	+1,7	+0,2
Beverages	4,6	98,9	-1,0	-0,0
Total textiles	2,9	101,5	+7,6	+0,2
Total wearing apparel	3,6	80,1	+1,4	+0,1
Tanning and dressing of leather	0,4	101,1	+6,8	+0,0
Footwear	0,9	56,9	+13,6	+0,1
Wood and products of wood	1,9	129,3	+8,3	+0,2
Paper and paper products	5,3	103,0	+2,5	+0,1
Total publishing and printing	4,1	81,0	-4,3	-0,2
Coke and refined petroleum products	4,2	112,4	+7,8	+0,3
Basic chemicals	4,5	145,2	+6,9	+0,3
Other chemical products	6,2	111,6	+5,4	+0,3
Rubber products	1,4	100,3	+7,8	+0,1
Plastic products	3,1	101,9	+7,2	+0,2
Glass and glass products	1,0	104,1	+4,0	+0,1
Other non-metallic mineral products	3,5	91,4	-2,8	-0,1
Basic iron and steel products	7,6	126,5	+7,7	+0,6
Basic precious and non-ferrous metal products	3,2	169,7	+2,4	+0,1
Fabricated metal products	7,0	111,5	-4,2	-0,3
Total machinery and equipment	5,8	108,7	-1,5	-0,1
Electrical machinery, apparatus	3,4	103,5	+2,6	+0,1
Radio, television and communication apparatus	1,0	113,3	+6,3	+0,1
Professional equipment	0,5	99,5	+9,5	+0,1
Motor vehicles; trailers; parts and accessories	8,0	152,9	+9,7	+0,8
Other transport equipment	1,0	124,1	+3,9	+0,1
Furniture	1,6	110,0	+15,3	+0,2
Other manufacturing divisions	2,6	117,1	+11,1	+0,3
Total	100,0	113,5	+3,9	+3,9

1/ The contribution is calculated by multiplying the quarterly percentage change of each manufacturing division with its corresponding weight in the base year, divided by 100.

SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products at current prices for the three months ended January 2002 reflected an increase of 9,6% (+R12 077 million) after seasonal adjustment compared with the previous three months. Higher manufacturing sales were reported by 26 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 January 2002 reflected an increase of 15,7% (+R18 055 million) compared with the three months ended January 2001. Higher manufacturing sales were reported by 25 of the 27 manufacturing divisions during this period.

The increase of 9,6% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended January 2002 compared with the previous three months was mainly due to large increases reported by the basic precious and non-ferrous metal products (+34,1% or +R1 439 million), basic iron and steel products (+13,7% or +R1 276 million), motor vehicles, trailers and parts and accessories (+12,4% or +R2 044 million), basic chemicals (+11,7% or +R730 million), other chemical products (+11,2% or +R823 million) and food and food products (+10,2% or +R1 746 million) divisions (cf. table B).

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

Manufacturing Divisions	Seasonally adjusted sales	Percentage change between	Difference in seasonally adjusted sales of manufacturing divisions between
	November 2001 to January 2002	November 2001 to January 2002 and November 2000 to January 2001	November 2001 to January 2002 and November 2000 to January 2001
	R'000		R'000
Food and food products	18 836 998	+10,2	1 746 102
Beverages	5 952 896	-1,7	101 074
Total textiles	2 995 641	+7,3	202 871
Total Wearing apparel	2 992 865	+10,5	284 191
Tanning and dressing of leather	654 580	+7,1	43 398
Footwear	526 385	+11,7	55 087
Wood and products of wood	2 874 668	+13,1	333 013
Paper and paper products	6 674 289	+4,7	302 057
Total publishing and printing	3 173 951	+1,4	45 078
Coke and refined petroleum products	9 735 781	+7,2	657 264
Basic chemicals	6 951 472	+11,7	730 199
Other chemical products	8 172 673	+11,2	822 866
Rubber products	1 507 354	+16,5	213 141
Plastic products	3 420 189	+11,0	337 979
Glass and glass products	810 125	+13,5	96 236
Other non-metallic mineral products	3 041 563	+5,5	159 393
Basic iron and steel products	10 568 926	+13,7	1 276 218
Basic precious and non-ferrous metal products	5 662 860	+34,1	1 438 614
Fabricated metal products	7 366 372	+2,7	195 573
Total machinery and equipment	5 661 815	+0,2	8 565
Electrical machinery, apparatus	3 665 013	+6,8	232 800
Radio, television and communication apparatus	1 136 623	+9,4	97 298
Professional equipment	488 943	+19,0	78 132
Motor vehicles; trailers; parts and accessories	18 500 514	+12,4	2 043 745
Other transport equipment	800 897	+1,1	8 536
Furniture	1 794 975	+14,5	227 188
Other manufacturing industries	4 248 460	+14,7	542 962
Total	138 216 828	+9,6	12 077 433

The major contributors to the increase of 15,7% in the actual value of sales of manufactured products at current prices for the three months ended January 2002 compared with the three months ended January 2001 were the food and food products (+2,8 percentage points or +R3 261 million), motor vehicles, trailers, parts and accessories (+2,6 percentage points or +R2 978 million), basic iron and steel products (+1,4 percentage points or +R1 637 million), 'other' chemical products (+1,2 percentage points or +R1 325 million), basic precious and non-ferrous metal products (+1,2 percentage points or +R1 405 million) and basic chemicals (+0,9 of a percentage point or +R1 044 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		Percentage change between November 2000 to January 2001 and November 2001 to January 2002	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions between	
	November 2001 to January 2001	November 2001 to January 2002			November 2000 to January 2001	November 2001 to January 2002
						R'000
Food and food products	13,8	20,5	2,8	2,8	3 261 469	
Beverages	5,3	15,5	0,8	0,8	951 249	
Total textiles	1,8	20,0	0,4	0,4	420 442	
Total Wearing apparel	1,9	17,3	0,3	0,3	387 887	
Tanning and dressing of leather	0,6	-14,7	-0,1	-0,1	-97 844	
Footwear	0,3	9,1	0,0	0,0	35 822	
Wood and products of wood	1,8	25,4	0,5	0,5	535 589	
Paper and paper products	5,3	6,9	0,4	0,4	425 667	
Total publishing and printing	2,7	4,0	0,1	0,1	122 095	
Coke and refined petroleum products	8,1	5,8	0,5	0,5	534 869	
Basic chemicals	5,3	17,1	0,9	0,9	1 044 168	
Other chemical products	5,7	20,3	1,2	1,2	1 324 549	
Rubber products	0,9	29,2	0,3	0,3	295 504	
Plastic products	2,3	18,6	0,4	0,4	501 341	
Glass and glass products	0,5	27,4	0,1	0,1	168 920	
Other non-metallic mineral products	2,1	13,6	0,3	0,3	324 673	
Basic iron and steel products	7,4	19,3	1,4	1,4	1 637 168	
Basic precious and non-ferrous metal products	3,6	33,9	1,2	1,2	1 404 834	
Fabricated metal products	5,2	14,2	0,7	0,7	854 943	
Total machinery and equipment	4,4	3,1	0,1	0,1	157 940	
Electrical machinery, apparatus	2,8	3,9	0,1	0,1	125 867	
Radio, television and communication apparatus	0,8	10,2	0,1	0,1	97 406	
Professional equipment	0,3	20,5	0,1	0,1	77 325	
Motor vehicles; trailers; parts and accessories	11,7	22,0	2,6	2,6	2 978 357	
Other transport equipment	0,6	-3,1	-0,0	-0,0	-21 991	
Furniture	1,2	18,0	0,2	0,2	252 878	
Other manufacturing divisions	3,4	6,5	0,2	0,2	254 263	
Total	100,0	15,7	15,7	15,7	18 055 390	

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.

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

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Forthcoming issues

Issue	Expected release date
February 2002	9 April 2002
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	99,1 1/
F	96,7	103,1	101,1	98,0	103,2	105,9	
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	125,9	
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	101,8	108,4	113,5
F	98,7	105,1	102,8	99,7	104,9	107,6	
M	99,4	100,2	100,8	99,5	106,9	109,8	
A	102,1	111,1	101,6	100,2	99,2	107,5	
M	103,9	105,4	100,1	100,4	105,7	107,9	
J	101,5	103,3	102,7	98,5	107,8	110,8	
J	102,5	105,8	102,0	102,2	105,1	107,0	
A	104,6	103,1	97,9	101,9	107,0	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	112,6	
N	103,0	100,8	99,0	103,9	108,3	112,7	
D	98,7	102,1	100,0	106,2	110,6	114,3	

* 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		
			January	December	January 1/	January	December	January
			2001	2001	2002	2001	2001	2001
Food and food products	10,7	104,7	88,0	98,3	91,3	102,1	106,8	106,4
Meat, fish, fruit etc.	2,8	119,8	107,8	122,6	109,0	115,6	120,7	117,1
Dairy products	1,4	90,9	90,8	96,0	90,6	90,2	88,7	90,2
Grain mill products	2,1	99,6	84,1	97,2	87,4	93,3	99,2	97,7
Other food products	4,4	101,8	76,3	83,9	82,0	101,2	107,1	108,7
Beverages	4,6	97,2	83,3	134,8	91,3	88,7	101,3	98,3
Total textiles	2,9	96,4	67,1	66,7	69,9	94,5	99,4	98,9
Textiles	1,7	86,3	56,7	56,8	61,4	79,2	88,4	86,4
Other textile products	1,2	110,8	81,8	80,8	82,0	116,4	115,1	116,6
Total wearing apparel	3,6	78,9	52,4	61,3	52,6	78,7	80,6	79,1
Knitted, crocheted articles	0,6	76,5	45,7	52,2	51,5	65,0	75,6	74,3
Wearing apparel	3,0	79,4	53,8	63,1	52,8	81,5	81,5	80,1
Tanning and dressing of leather	0,4	114,8	117,9	88,8	71,2	147,0	117,4	88,7
Footwear	0,9	53,9	42,6	41,5	39,5	66,2	57,9	60,9
Wood and products of wood	1,9	120,9	95,7	103,5	97,1	121,0	141,2	122,4
Sawmilling and planing of wood	0,8	101,9	81,5	76,7	88,4	106,5	106,4	115,2
Products of wood	1,2	133,4	105,0	121,1	102,8	130,6	164,1	127,1
Paper and paper products	5,3	103,5	108,4	95,2	104,5	109,9	100,2	105,3
Total publishing and printing	4,1	83,8	77,0	68,1	71,1	87,5	75,4	81,4
Publishing	1,5	96,2	99,0	74,3	79,4	105,2	74,9	84,0
Printing, recorded media	2,6	76,8	64,7	64,6	66,5	77,6	75,7	79,9
Coke and refined petroleum products	4,2	104,6	110,4	119,8	118,0	104,5	117,6	112,0
Basic chemicals	4,5	140,3	133,5	134,8	148,8	137,1	139,9	152,4
Other chemical products	6,2	105,3	88,1	94,0	97,5	103,6	110,9	114,4
Rubber products	1,4	99,3	88,6	58,9	86,7	108,4	91,8	105,4
Plastic products	3,1	97,0	72,6	83,6	79,4	92,9	104,1	102,0
Glass and glass products	1,0	98,9	83,8	96,7	93,6	98,2	107,4	109,6
Other non-metallic mineral products	3,5	91,3	75,1	70,8	73,9	89,6	94,7	88,0
Basic iron and steel products	7,6	115,4	111,7	127,0	112,1	115,1	148,3	115,1
Basic precious and non-ferrous metal products	3,2	166,5	151,5	169,6	166,3	161,6	164,8	178,2
Fabricated metal products	7,0	110,8	91,8	79,8	98,7	106,2	101,1	113,7
Structural metal products	2,4	100,8	81,5	71,5	86,7	94,3	87,2	99,9
Other fabricated metal products	4,6	116,1	97,1	84,0	104,9	112,3	108,2	120,9
Total machinery and equipment	5,8	108,7	91,0	96,5	88,2	107,8	109,9	105,4
General purpose machinery	2,5	112,3	89,1	105,3	91,0	111,1	124,0	113,8
Special purpose machinery	2,9	104,3	94,9	90,9	86,0	104,6	97,0	95,3
Household appliances	0,4	118,8	74,7	81,4	86,6	109,5	114,9	126,4
Electrical machinery, apparatus	3,4	102,7	84,9	83,3	85,2	103,2	102,9	103,2
Radio, television and communication apparatus	1,0	110,2	107,0	100,2	89,2	123,6	118,7	101,4
Professional equipment	0,5	89,4	81,1	80,5	93,3	88,4	99,4	101,2
Motor vehicles; trailers; parts and accessories	8,0	141,3	116,9	99,3	131,7	139,0	150,7	156,9
Motor vehicles	4,5	127,6	96,6	89,0	118,2	122,9	135,2	150,0
Bodies for motor vehicles; trailers and semi-trailers	0,5	66,7	47,6	50,0	35,8	66,4	69,4	50,8
Parts and accessories	3,0	175,7	160,0	123,9	169,6	176,5	188,8	186,6
Other transport equipment	1,0	117,6	122,3	116,9	125,5	118,4	125,6	121,7
Furniture	1,6	98,3	61,1	69,4	75,7	93,2	107,7	115,3
Other manufacturing divisions	2,6	110,6	77,2	83,2	84,4	108,0	118,8	119,4
Total	100,0	109,5	94,7	98,1	99,1	108,4	114,3	113,5

* 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	26 410 458	28 615 702	33 979 805	41 201 133 1/
F	26 328 500	29 866 793	29 901 544	30 607 558	35 182 383	39 163 157	
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	37 493 892	
M	28 293 052	30 626 091	30 352 835	32 737 449	37 013 710	41 125 106	
J	28 261 416	30 575 542	31 723 893	33 126 289	38 674 835	42 688 632	
J	28 378 392	31 169 707	31 732 667	33 429 319	36 229 087	41 089 759	
A	29 568 761	31 400 042	30 810 619	33 740 922	38 967 402	41 129 516	
S	29 549 724	31 344 644	32 896 327	35 884 855	39 923 901	42 325 438	
O	33 070 022	35 902 602	34 970 472	37 448 797	41 761 506	48 580 975	
N	33 084 713	33 709 581	34 300 610	38 909 651	43 868 608	49 814 447	
D	26 338 721	28 128 922	29 016 347	33 048 575	37 232 980	42 121 203	
Year	339 096 803	368 283 280	373 568 657	398 640 599	448 192 617	502 133 244	
Seasonally adjusted values							
J	26 409 047	30 509 903	31 066 493	31 455 285	33 769 368	39 621 539	48 363 797
F	26 812 193	30 509 129	30 623 315	31 443 280	36 158 209	40 363 897	
M	26 889 254	28 711 780	30 954 107	31 517 249	36 377 211	40 732 867	
A	27 733 349	32 130 178	31 537 552	32 448 603	34 954 449	40 276 707	
M	28 443 878	30 720 262	30 407 418	32 823 095	37 055 409	41 165 536	
J	28 023 342	30 199 849	31 240 069	32 573 065	37 805 326	41 661 500	
J	28 370 005	31 166 851	31 846 320	33 630 214	36 559 808	41 569 635	
A	28 804 957	30 740 644	30 339 306	33 340 895	38 545 114	40 654 766	
S	28 348 275	30 134 353	31 736 219	34 746 667	38 668 065	41 090 456	
O	29 571 902	32 169 033	31 386 627	33 807 374	38 005 500	44 394 173	
N	29 745 839	30 324 952	30 812 658	34 902 885	39 497 817	44 723 335	
D	29 267 037	30 812 090	31 402 644	35 767 248	40 148 426	45 129 695	

* 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		
		January	December	January 1/	January	December	January	
		2001	2001	2002	2001	2001	2002	
		2001	2001	2002	2001	2001	2002	
Food and food products	67 543 885	4 814 959	6 309 453	6 015 118	5 161 686	6 155 079	6 527 112	
Meat, fish, fruit etc.	20 189 996	1 290 581	2 027 593	1 715 777	1 479 685	1 940 530	1 974 983	
Dairy products	7 600 864	592 744	647 957	635 055	616 201	606 834	659 276	
Grain mill products	17 558 709	1 185 646	1 681 500	1 702 394	1 309 280	1 634 849	1 882 674	
Other food products	22 194 316	1 745 988	1 952 403	1 961 892	1 756 520	1 972 866	2 010 179	
Beverages	23 706 465	1 758 350	3 003 361	1 857 024	1 784 201	2 031 375	1 894 891	
Total textiles	11 027 575	565 505	670 300	680 111	840 171	943 500	1 016 476	
Textiles	6 968 643	349 954	395 965	425 813	512 058	593 550	626 236	
Other textile products	4 058 932	215 551	274 335	254 298	328 113	349 950	390 240	
Total wearing apparel	10 978 702	518 951	817 412	588 745	872 899	999 738	994 526	
Knitted, crocheted articles	1 846 405	81 880	115 445	101 421	134 126	169 126	167 638	
Wearing apparel	9 132 297	437 071	701 967	487 324	738 773	830 612	826 888	
Tanning and dressing of leather	2 724 417	216 896	166 281	176 024	286 613	219 507	231 648	
Footwear	1 974 373	87 041	120 570	93 949	163 621	178 969	176 573	
Wood and products of wood	10 198 680	625 564	806 902	734 932	797 817	1 000 847	926 045	
Sawmilling and planing of wood	2 764 014	164 609	192 421	202 095	220 856	247 797	270 227	
Products of wood	7 434 666	460 955	614 481	532 837	576 961	753 050	655 818	
Paper and paper products	25 169 729	1 915 696	2 075 487	2 142 741	2 099 961	2 176 286	2 343 715	
Total publishing and printing	12 319 497	969 245	947 958	944 408	1 077 672	1 022 296	1 058 764	
Publishing	5 137 601	467 764	418 456	376 690	484 313	427 769	387 700	
Printing, recorded media	7 181 896	501 481	529 502	567 718	593 359	594 527	671 064	
Coke and refined petroleum products	37 699 329	3 067 593	3 214 522	3 361 133	3 135 338	3 223 154	3 432 081	
Basic chemicals	25 135 080	1 987 390	2 071 993	2 412 856	2 122 752	2 175 387	2 576 313	
Other chemical products	29 195 074	1 888 964	2 450 747	2 441 913	2 217 116	2 687 277	2 878 496	
Rubber products	5 339 739	311 022	368 554	408 929	410 757	471 874	537 365	
Plastic products	12 301 333	792 313	963 716	948 259	983 871	1 159 704	1 173 958	
Glass and glass products	2 841 584	164 478	251 397	225 301	214 823	281 111	294 536	
Other non-metallic mineral products	11 344 959	724 023	764 487	838 911	901 102	1 018 220	1 039 545	
Basic iron and steel products	35 607 441	2 482 497	3 464 332	3 300 515	2 796 880	3 548 860	3 710 983	
Basic precious and non-ferrous metal products	17 959 767	1 108 432	2 374 786	1 725 322	1 377 728	2 109 865	2 163 713	
Fabricated metal products	27 341 085	1 693 372	1 774 376	2 155 282	2 044 092	2 223 677	2 625 405	
Structural metal products	8 748 171	447 541	559 860	657 707	608 610	653 547	888 266	
Other fabricated metal products	18 592 914	1 245 831	1 214 516	1 497 575	1 435 482	1 570 130	1 737 139	
Total machinery and equipment	21 651 027	1 364 652	1 722 946	1 495 106	1 735 168	1 852 731	1 920 466	
General purpose machinery	9 233 530	574 118	771 517	678 346	760 466	830 989	900 030	
Special purpose machinery	10 085 479	692 819	811 310	681 260	819 010	832 319	805 865	
Household appliances	2 332 018	97 715	140 119	135 500	155 692	189 424	214 570	
Electrical machinery, apparatus	13 955 669	885 632	1 014 278	965 283	1 112 847	1 221 221	1 216 332	
Radio, television and communication apparatus	4 199 151	335 173	327 549	290 121	398 766	377 438	339 704	
Professional equipment	1 631 276	120 427	148 177	150 875	135 890	178 264	168 842	
Motor vehicles; trailers; parts and accessories	65 043 901	3 976 084	4 348 462	5 362 813	4 978 497	5 660 354	6 750 605	
Motor vehicles	45 822 893	2 638 774	3 270 380	3 851 220	3 412 133	4 051 917	4 990 073	
Bodies for motor vehicles; trailers and semi-trailers	1 620 464	96 674	111 187	96 119	142 994	140 958	140 169	
Parts and accessories	17 600 544	1 240 636	966 895	1 415 474	1 423 370	1 467 479	1 620 363	
Other transport equipment	3 128 375	198 998	190 048	213 075	253 765	243 128	266 243	
Furniture	6 354 709	266 124	412 405	392 355	419 028	553 877	616 382	
Other manufacturing divisions	15 760 422	1 140 424	1 340 704	1 280 032	1 298 478	1 415 955	1 483 081	
Total	502 133 244	33 979 805	42 121 203	41 201 133	39 621 539	45 129 695	48 363 797	

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	January	December	January 1/	January	December	January
	2001	2001	2002	2001	2001	2002
Spinning, weaving and finishing of textiles	197 892	195 933	220 446	199 119	221 343	221 064
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	31 086	34 415	32 440	28 037	35 935	29 331
Other textile articles	59 302	83 178	86 075	64 623	95 065	93 322
Knitted and crocheted fabrics and articles	115 466	92 076	88 278	119 051	93 619	91 012
Wearing apparel	655 726	651 298	690 407	685 987	713 729	721 567
Sawmilling and preserving of timber	25 356	16 176	17 513	24 657	16 453	17 045
Veneer sheets, plywood, laminboard, etc.	21 750	23 089	21 822	23 999	25 781	24 170
Builders' carpentry and joinery	40 485	43 953	46 452	40 509	44 033	46 617
Pulp, paper and paperboard	327 001	286 672	342 909	383 384	321 336	399 744
Corrugated paper and paper-board and containers	378 001	320 593	360 949	363 100	311 033	344 625
Paints, varnishes and coatings	25 200	26 764	27 779	25 063	26 226	27 565
Basic iron and steel products	2 991 469	3 298 002	3 467 443	2 923 900	3 317 691	3 388 650
Steel pipe and tube mills	184 910	219 619	212 391	182 502	211 112	210 563
Basic precious and non-ferrous metal products	1 356 565	1 464 478	1 615 658	1 436 215	1 608 942	1 710 441
Metal structures, parts	1 270 963	1 232 210	996 159	1 332 487	1 311 021	1 047 224
Cutlery, hand tools and general hardware	30 807	37 108	42 651	27 591	39 506	37 786
Metal containers, e.g. cans and tins	75 165	75 091	93 883	67 482	75 996	84 292
Cables, wire products, springs	56 365	46 388	45 296	62 582	59 470	50 147
Metal fasteners	53 251	84 669	88 943	48 708	86 217	81 542
All other metal products	610 240	884 979	671 889	662 111	864 366	726 838
Domestic appliances	28 270	33 334	28 135	29 466	32 450	29 519
Electric motors, generators and transformers	379 353	378 704	374 693	405 007	391 755	402 479
Insulated wire and cables	347 488	289 006	299 776	330 627	343 601	285 317
Accumulators, primary cells and primary batteries	12 820	9 196	9 373	13 448	9 750	9 923
Television, radio and communication apparatus	931 547	1 848 428	1 848 380	1 058 768	2 092 407	2 122 639
Motor vehicles	2 266 840	2 595 368	2 402 961	2 263 783	2 630 690	2 403 824
Parts and accessories for motor vehicles	302 938	405 110	321 088	308 996	429 332	327 690
Furniture	260 803	171 811	205 344	302 183	203 744	238 226

* Revised

Additional information

Explanatory notes

- | | |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Introduction | <p>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.</p> <p>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.</p> <p>3 In order to improve timeliness, some information for the current month (January) 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.</p> |
| Scope of the survey | <p>4 This survey covers manufacturing establishments conducting activities regarding -</p> <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 | <p>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).</p> |
| Statistical unit | <p>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).</p> |
| Survey methodology and design | <p>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.</p> <p>8 The survey is collected by mail each month from a sample of approximately 2 500 manufacturing establishments.</p> |

- 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 six remaining major groups namely 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 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 January 2002 is 77,5%.
The response rates by manufacturing major division are tabulated in table D.

Table D - Response rates for January 2002

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	311	74,6
Beverages	67	86,6
Textile	112	86,6
Total wearing apparel	136	78,7
Tanning and dressing of leather	26	73,1
Footwear	21	90,5
Wood and products of wood	119	63,9
Paper and paper products	93	78,5
Total publishing and printing	89	71,9
Coke and refined petroleum products	30	76,7
Basic chemicals	78	88,5
Other chemical products	110	75,5
Rubber products	19	100,0
Plastic products	84	72,6
Glass and glass products	14	78,6
Other non-metallic mineral products	142	74,6
Basic iron and steel products	42	81,0
Basic precious and non-ferrous metal products	24	75,0
Fabricated metal products	234	76,5
Total machinery and equipment	184	78,8
Electrical machinery, apparatus	78	76,9
Radio, television and communication apparatus	21	61,9
Professional equipment	27	70,4
Motor vehicles; trailers; parts and accessories	121	89,3
Other transport equipment	38	76,3
Furniture	64	76,6
Other manufacturing industries	81	76,5
Total	2 365	77,5

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. <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.

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