

Manufacturing: production and sales

November 2001

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Key figures as at the end of November 2001

Actual estimates		November 2001	% change between November 2000 and November 2001	% change between September 2000 to November 2000 and September 2001 to November 2001	% change between January 2000 to November 2000 and January 2001 to November 2001
of	Physical volume				
	manufacturing production index (1995=100)	125,6	+4,1	+3,5	+3,3
sales	Total value of				
	of manufactured products (R million)	49 439,9	+12,7	+11,9	+11,9

Seasonally adjusted estimates		November 2001	% change between October 2001 and November 2001	% change between June 2001 to August 2001 and September 2001 to November 2001
	Physical volume of manufacturing production index (1995=100)	111,9	-0,3	+2,2
sales	Total value of			
	of manufactured products (R million)	43 959,9	-0,8	+4,4

Key findings as at the end of November 2001**MANUFACTURING PRODUCTION INCREASES**

Manufacturing production for the three months ended November 2001 reflected an increase of 2,2% after seasonal adjustment compared with the previous three months. Higher production was reported by 16 of the 27 manufacturing divisions. Furthermore, the total manufacturing production for November 2001 decreased marginally by 0,3% after seasonal adjustment compared with October 2001. To a large extent this can be attributed to lower production reported for November 2001 by the motor vehicle manufacturing division, following strike action in August and September 2001 and increased production in October 2001. The actual manufacturing production for the first eleven months of 2001 reflected an increase of 3,3% compared with the first eleven months of 2000.

The major contributor to the increase of 2,2% after seasonal adjustment in the total manufacturing production was the motor vehicles, trailers, parts and accessories division (contributing 1,2 percentage points to total manufacturing production), followed by the basic iron and steel products division (+0,6 of a percentage point), fabricated metal products (+0,3 of a percentage point) and the coke and refined petroleum products (+0,2 of a percentage point) division (cf. table A).

SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products at current prices for the three months ended November 2001 reflected an increase of 4,4% (+R5 432 million) after seasonal adjustment compared with the previous three months. Higher manufacturing sales were reported by 19 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 November 2001 reflected an increase of 11,9% (+R15 003 million) compared with the three months ended November 2000. With the exception of the tanning and dressing of leather division and the footwear division, all manufacturing divisions recorded higher manufacturing sales during the latter period. The actual total value of sales of manufactured products at current prices for the first eleven months of 2001 reflected an increase of 11,9% compared with the first eleven months of 2000.

The increase of 4,4% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended November 2001 compared with the previous three months was mainly due to large increases reported by the motor vehicles, trailers and parts and accessories (+21,9% or +R3 282 million), basic iron and steel products (+9,0% or +R780 million), food and food products (+5,6% or +R928 million), paper and paper products (+3,7% or +R228 million) and fabricated metal products (+3,0% or +R210 million) divisions.

The major contributors to the increase of 11,9% in the actual value of sales of manufactured products at current prices for the three months ended November 2001 compared with the three months ended November 2000 were the motor vehicles, trailers, parts and accessories (+3,3 percentage points or +R4 088 million), food and food products (+2,1 percentage points or +R2 649 million), fabricated metal products (+0,9 of a percentage point or +R1 159 million), beverages (+0,8 of a percentage point or +R948 million), basic chemical products (+0,7 of a percentage point or +R877 million) and 'other' chemical products (+0,7 of a percentage point or +R877 million) divisions.

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Forthcoming issues	Issue	Expected release date
	December 2001	12 February 2002
	January 2002	12 March 2002
	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 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 September 2001 to November 2001	Quarterly percentage change (September 2001 to November 2001 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	105,4	+0,6	+0,1
Beverages	4,6	98,5	+1,9	+0,1
Total textiles	2,9	96,1	+0,8	+0,0
Total wearing apparel	3,6	78,5	-2,8	-0,1
Tanning and dressing of leather	0,4	95,8	-14,7	-0,1
Footwear	0,9	49,3	-7,9	-0,1
Wood and products of wood	1,9	122,9	+4,2	+0,1
Paper and paper products	5,3	101,1	-0,3	-0,0
Total publishing and printing	4,1	85,2	+2,3	+0,1
Coke and refined petroleum products	4,2	103,4	+3,6	+0,2
Basic chemicals	4,5	137,3	-4,0	-0,2
Other chemical products	6,2	105,3	+1,4	+0,1
Rubber products	1,4	91,3	-12,5	-0,2
Plastic products	3,1	95,9	+1,1	+0,0
Glass and glass products	1,0	98,7	+1,8	+0,0
Other non-metallic mineral products	3,5	89,4	-4,0	-0,1
Basic iron and steel products	7,6	119,9	+8,1	+0,6
Basic precious and non-ferrous metal products	3,2	162,2	-1,5	-0,1
Fabricated metal products	7,0	119,4	+4,1	+0,3
Total machinery and equipment	5,8	109,1	-2,2	-0,1
Electrical machinery, apparatus	3,4	100,4	-0,2	-0,0
Radio, television and communication apparatus	1,0	109,6	+5,7	+0,1
Professional equipment	0,5	94,2	+11,5	+0,1
Motor vehicles; trailers; parts and accessories	8,0	151,3	+14,2	+1,2
Other transport equipment	1,0	119,2	+5,2	+0,1
Furniture	1,6	98,3	-0,2	-0,0
Other manufacturing divisions	2,6	114,1	+2,7	+0,1
Total	100,0	110,7	+2,2	+2,2

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.

Table 1 - Indices of the physical volume of manufacturing production: Total

Base 1995 = 100							
Month	1995	1996	1997	1998	1999	2000	2001*
Actual indices							
J	80,4	83,6	89,8	89,6	86,7	88,8	94,7
F	97,4	96,7	103,1	101,1	98,0	103,2	105,9
M	104,0	102,6	102,5	102,7	101,4	109,0	111,8
A	91,3	96,4	105,5	96,3	94,8	93,2	100,7
M	101,0	104,1	106,2	101,1	101,1	106,5	108,5
J	102,1	102,9	104,9	104,5	100,5	110,4	113,7
J	101,6	104,7	108,2	104,4	104,3	107,2	109,1
A	105,6	107,8	105,8	99,9	103,5	108,5	108,8
S	106,8	105,2	108,2	106,8	107,0	112,4	112,6
O	112,6	115,8	119,1	111,7	112,9	117,0	124,2
N	110,9	114,4	111,7	109,8	115,5	120,7	125,6 1/
D	86,2	83,7	86,9	85,3	90,5	94,7	
Year	100,0	101,5	104,3	101,1	101,4	106,0	
Seasonally adjusted indices							
J	96,1	99,0	105,5	104,7	100,5	102,2	108,9
F	99,1	98,6	105,1	102,8	99,7	104,9	107,6
M	99,9	99,4	100,2	100,8	99,6	106,9	109,8
A	97,5	102,1	111,2	101,6	100,3	99,2	107,5
M	101,1	103,9	105,4	100,1	100,4	105,7	107,8
J	100,9	101,6	103,3	102,6	98,4	107,6	110,6
J	99,8	102,5	105,7	102,0	102,2	105,2	107,1
A	102,5	104,6	103,1	97,9	101,7	106,8	107,2
S	101,6	100,2	103,1	102,1	102,4	107,7	107,9
O	101,4	103,3	106,3	100,3	101,6	105,7	112,2
N	100,0	103,0	100,8	99,0	103,7	108,0	111,9
D	99,3	98,8	102,2	100,3	106,9	111,8	

* 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 2000	Actual indices			Seasonally adjusted indices		
			November 2000	October 2001	November1/ 2001	November 2000	October 2001	November 2001
Food and food products	10,7	99,2	113,3	110,1	120,1	100,6	102,7	107,0
Meat, fish, fruit etc.	2,8	111,7	113,8	130,6	127,8	108,7	123,5	122,1
Dairy products	1,4	89,4	103,3	94,8	100,8	90,5	88,9	88,3
Grain mill products	2,1	91,3	95,4	111,2	112,8	91,0	104,0	107,6
Other food products	4,4	98,0	124,7	101,1	124,5	103,0	93,1	102,7
Beverages	4,6	92,6	104,4	110,2	107,9	90,7	100,0	93,9
Total textiles	2,9	93,5	99,6	109,1	116,6	87,4	94,3	102,1
Textiles	1,7	84,6	87,8	94,9	102,4	80,0	82,6	93,2
Other textile products	1,2	106,2	116,2	129,1	136,8	97,8	110,9	114,7
Total wearing apparel	3,6	82,8	98,8	96,8	98,6	80,6	78,0	80,0
Knitted, crocheted articles	0,6	73,9	79,8	85,8	87,9	72,0	75,8	78,5
Wearing apparel	3,0	84,5	102,6	99,0	100,8	82,3	78,5	80,3
Tanning and dressing of leather	0,4	125,2	146,0	109,0	115,3	121,9	93,9	96,8
Footwear	0,9	65,6	73,1	58,5	61,1	60,0	47,4	50,0
Wood and products of wood	1,9	119,3	136,0	138,3	147,9	116,7	123,1	126,4
Sawmilling and planing of wood	0,8	104,8	114,7	107,9	117,0	99,1	96,6	100,7
Products of wood	1,2	128,8	150,0	158,3	168,2	128,2	140,5	143,2
Paper and paper products	5,3	105,3	110,2	106,6	109,6	102,9	102,1	102,0
Total publishing and printing	4,1	87,8	101,9	92,0	99,4	87,7	83,3	85,4
Publishing	1,5	97,8	108,7	105,9	112,7	98,4	98,6	101,8
Printing, recorded media	2,6	82,3	98,1	84,2	91,9	81,8	74,7	76,2
Coke and refined petroleum products	4,2	104,5	109,1	108,7	105,5	105,6	107,5	101,9
Basic chemicals	4,5	134,9	171,5	167,0	174,0	141,4	144,6	142,4
Other chemical products	6,2	101,8	116,0	121,4	121,4	101,7	105,5	105,8
Rubber products	1,4	98,7	114,4	105,8	108,5	105,3	100,0	100,0
Plastic products	3,1	89,7	107,6	103,8	117,4	90,4	93,0	98,4
Glass and glass products	1,0	88,5	113,6	112,2	108,6	94,8	104,0	90,9
Other non-metallic mineral products	3,5	90,0	101,1	106,3	89,9	90,5	97,8	80,3
Basic iron and steel products	7,6	116,3	120,5	130,8	121,7	119,4	119,9	120,2
Basic precious and non-ferrous metal products	3,2	163,4	171,1	165,4	165,6	167,0	161,0	160,8
Fabricated metal products	7,0	103,4	122,5	127,2	142,2	105,6	120,3	122,4
Structural metal products	2,4	90,5	108,8	112,3	127,9	91,7	109,5	108,6
Other fabricated metal product	4,6	110,0	129,5	134,8	149,5	112,7	125,8	129,5
Total machinery and equipment	5,8	99,6	112,5	119,8	111,2	114,7	110,8	112,7
General purpose machinery	2,5	110,6	110,8	114,3	107,5	118,1	111,2	115,1
Special purpose machinery	2,9	87,8	110,9	120,8	108,0	112,1	108,8	108,0
Household appliances	0,4	116,9	135,1	147,5	159,0	112,2	123,2	132,3
Electrical machinery, apparatus	3,4	102,1	106,2	116,6	106,5	98,7	100,8	99,8
Radio, television and communication apparatus	1,0	123,7	102,4	119,0	130,7	93,3	114,6	118,8
Professional equipment	0,5	80,9	105,3	95,4	105,0	98,4	94,5	98,1
Motor vehicles; trailers; parts and accessories	8,0	125,4	152,1	184,2	176,7	132,4	160,3	153,4
Motor vehicles	4,5	114,9	129,0	183,0	151,7	115,0	159,1	135,3
Bodies for motor vehicles; trailers and semi-trailers	0,5	63,3	75,2	56,3	79,6	64,1	58,9	67,7
Parts and accessories	3,0	152,4	200,9	209,3	232,0	171,1	180,6	196,2
Other transport equipment	1,0	115,0	115,6	119,5	117,0	120,5	118,7	121,6
Furniture	1,6	98,9	139,7	131,8	143,9	104,6	101,9	106,9
Other manufacturing divisions	2,6	111,5	150,3	143,2	150,4	118,6	115,6	118,1
Total	100,0	106,0	120,7	124,2	125,6	108,0	112,2	111,9

* Revised
1/ Preliminary

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

Month	1995	1996	1997	1998	1999	2000	2001*
Actual values							
J	19 206 220	21 803 249	25 254 480	25 913 926	26 410 458	28 615 702	33 979 418
F	24 414 317	26 328 500	29 866 793	29 901 544	30 607 558	35 182 383	39 164 039
M	26 712 878	28 188 286	29 866 272	32 190 538	32 788 344	38 036 042	42 613 923
A	22 897 368	26 231 967	30 438 604	29 758 879	30 508 382	32 686 461	37 491 783
M	25 806 431	28 293 052	30 626 091	30 352 835	32 737 449	37 013 710	41 126 549
J	26 204 689	28 261 416	30 575 542	31 723 893	33 126 289	38 672 176	42 690 231
J	25 613 126	28 378 392	31 169 707	31 732 667	33 429 319	36 226 449	41 093 021
A	27 064 919	29 568 761	31 400 042	30 810 619	33 740 922	38 964 771	41 242 655
S	27 737 968	29 549 724	31 344 644	32 896 327	35 884 855	39 921 270	42 452 866
O	29 294 559	33 070 022	35 902 602	34 970 472	37 448 797	41 758 876	48 655 561
N	29 960 074	33 084 713	33 709 581	34 300 610	38 909 651	43 865 570	49 439 884 1/
D	23 877 458	26 338 721	28 128 922	29 016 347	33 048 575	37 216 505	
Year	308 790 007	339 096 803	368 283 280	373 568 657	398 640 599	448 159 915	
Seasonally adjusted values							
J	23 519 557	26 407 329	30 515 610	31 078 430	31 523 165	34 028 001	40 125 902
F	24 778 237	26 807 860	30 512 946	30 643 117	31 481 188	36 202 095	40 428 451
M	25 293 036	26 884 757	28 708 699	30 961 658	31 544 226	36 416 378	40 777 196
A	24 289 822	27 742 638	32 138 709	31 541 348	32 458 755	34 946 162	40 250 150
M	26 140 194	28 443 004	30 717 863	30 407 112	32 826 451	37 052 180	41 155 277
J	25 968 750	28 028 976	30 211 936	31 261 850	32 596 943	37 817 078	41 661 164
J	25 542 115	28 377 870	31 172 733	31 858 240	33 633 430	36 551 150	41 553 301
A	26 212 589	28 806 506	30 740 216	30 338 262	33 319 635	38 497 051	40 721 168
S	26 527 512	28 342 879	30 129 195	31 718 932	34 692 743	38 561 858	41 101 040
O	26 217 713	29 568 846	32 160 656	31 354 110	33 727 744	37 884 249	44 306 822
N	26 862 442	29 731 076	30 279 045	30 711 780	34 679 506	39 116 447	43 959 887
D	26 780 162	29 268 183	30 844 654	31 407 876	35 947 794	40 429 951	

* 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		
		November	October	November/1/	November	October	November
		2000	2000	2001	2000	2001	
Food and food products	59 680 480	5 796 349	6 163 577	6 855 340	5 143 649	5 667 156	6 129 679
Meat, fish, fruit etc.	17 696 951	1 610 712	1 916 119	2 056 355	1 457 235	1 774 140	1 859 275
Dairy products	7 246 522	722 454	705 222	744 250	624 170	652 645	643 762
Grain mill products	15 373 318	1 332 950	1 624 036	1 674 151	1 266 836	1 517 974	1 591 865
Other food products	19 363 689	2 130 233	1 918 200	2 380 584	1 795 408	1 722 397	2 034 777
Beverages	20 378 659	1 857 279	2 107 112	2 135 782	1 697 692	2 006 199	1 956 108
Total textiles	10 164 459	927 888	1 067 879	1 158 979	820 171	939 449	1 022 763
Textiles	6 440 583	581 757	655 379	727 052	524 648	590 669	654 946
Other textile products	3 723 876	346 131	412 500	431 927	295 523	348 780	367 817
Total wearing apparel	10 523 645	1 010 587	1 119 387	1 152 234	826 330	907 554	939 861
Knitted, crocheted articles	1 693 563	149 847	172 382	186 260	133 974	161 003	165 940
Wearing apparel	8 830 082	860 740	947 005	965 974	692 356	746 551	773 921
Tanning and dressing of leather	2 666 786	256 451	235 458	227 069	224 706	199 964	201 449
Footwear	2 238 178	201 003	197 659	209 057	155 134	154 199	161 116
Wood and products of wood	9 073 197	902 303	1 000 797	1 101 641	772 544	890 601	938 361
Sawmilling and planing of wood	2 589 363	246 115	280 432	281 890	214 796	245 068	245 711
Products of wood	6 483 834	656 188	720 365	819 751	557 748	645 533	692 650
Paper and paper products	23 303 136	2 223 721	2 220 923	2 368 726	2 042 323	2 183 948	2 159 082
Total publishing and printing	11 678 548	1 189 922	1 190 917	1 278 055	996 671	1 060 893	1 071 310
Publishing	4 668 251	434 408	481 355	508 312	394 378	444 025	461 160
Printing, recorded media	7 010 297	755 514	709 562	769 743	602 293	616 868	610 150
Coke and refined petroleum products	31 823 682	3 187 437	3 435 669	3 229 320	3 007 042	3 102 894	3 053 307
Basic chemicals	21 571 212	2 215 011	2 571 892	2 701 101	1 810 352	2 211 809	2 209 447
Other chemical products	26 327 958	2 528 931	2 868 146	2 883 999	2 232 532	2 488 488	2 536 019
Rubber products	4 645 737	436 391	495 951	503 861	411 612	451 405	474 072
Plastic products	10 863 175	1 100 954	1 183 787	1 277 544	925 281	1 044 859	1 072 878
Glass and glass products	2 280 493	263 851	309 717	319 418	198 700	244 906	241 033
Other non-metallic mineral products	10 249 683	1 015 160	1 119 062	963 763	906 863	1 006 645	861 241
Basic iron and steel products	33 529 317	3 177 258	3 379 333	3 403 095	3 013 618	3 207 468	3 209 348
Basic precious and non-ferrous metal products	15 542 665	1 403 545	1 423 562	1 437 913	1 336 560	1 349 737	1 365 559
Fabricated metal products	24 753 734	2 472 812	2 633 617	2 957 606	2 135 885	2 458 673	2 534 172
Structural metal products	7 818 495	786 945	806 169	924 229	681 340	762 533	785 144
Other fabricated metal product	16 935 239	1 685 867	1 827 448	2 033 377	1 454 545	1 696 139	1 749 027
Total machinery and equipment	19 664 968	1 809 720	2 162 851	1 957 981	1 762 249	2 057 719	1 888 635
General purpose machinery	8 821 849	819 418	789 131	882 252	770 672	780 089	827 806
Special purpose machinery	8 658 911	772 670	1 124 667	794 498	816 797	1 074 216	834 909
Household appliances	2 184 208	217 632	249 053	281 231	174 781	203 414	225 920
Electrical machinery, apparatus	13 182 516	1 257 405	1 247 802	1 311 486	1 137 043	1 132 020	1 187 392
Radio, television and communication apparatus	4 639 808	304 224	354 009	428 763	291 624	355 538	411 673
Professional equipment	1 388 382	145 044	145 966	155 154	130 591	142 373	139 320
Motor vehicles; trailers; parts and accessories	53 962 953	5 667 616	7 577 135	6 638 553	5 052 791	6 908 616	5 888 894
Motor vehicles	37 436 200	3 847 087	5 712 589	4 558 301	3 473 003	5 251 114	4 091 143
Bodies for motor vehicles; trailers and semi-trailers	1 670 903	179 727	136 135	175 314	147 482	132 892	142 937
Parts and accessories	14 855 850	1 640 802	1 728 411	1 904 938	1 432 306	1 524 609	1 654 813
Other transport equipment	3 247 376	224 465	287 637	301 754	218 764	270 126	300 956
Furniture	6 253 537	747 209	714 416	800 962	543 443	527 808	578 495
Other manufacturing divisions	14 525 631	1 543 034	1 441 300	1 680 728	1 322 279	1 335 776	1 427 719
Total	448 159 915	43 865 570	48 655 561	49 439 884	39 116 447	44 306 822	43 959 887

* Revised

1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	November	October	November 1/	November	October	November
	2000	2001		2000	2001	
Spinning, weaving and finishing of textiles	185 093	229 579	227 623	184 291	220 274	226 388
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	20 616	46 285	44 607	23 225	42 822	49 826
Other textile articles	51 877	80 985	88 046	52 261	73 985	88 873
Knitted and crocheted fabrics and articles	123 871	112 425	104 831	120 710	99 586	101 827
Wearing apparel	650 208	785 134	719 162	643 708	696 438	712 901
Sawmilling and preserving of timber	27 762	16 582	13 872	28 157	16 094	14 016
Veneer sheets, plywood, laminboard, etc.	26 269	26 225	26 805	24 338	25 515	25 003
Builders' carpentry and joinery	55 055	46 141	49 266	46 937	39 588	41 354
Pulp, paper and paperboard	576 078	407 266	413 988	509 707	363 006	361 104
Corrugated paper and paperboard and containers	422 493	326 629	334 467	392 059	297 044	309 700
Paints, varnishes and coatings	24 613	24 609	33 479	18 682	20 058	25 380
Basic iron and steel products	3 074 653	3 589 128	3 435 444	3 023 786	3 541 283	3 375 148
Steel pipe and tube mills	162 843	164 430	214 787	143 879	146 814	187 482
Basic precious and non-ferrous metal products	1 201 858	1 901 095	1 567 266	1 262 190	1 796 176	1 658 241
Metal structures, parts	1 163 946	1 549 808	1 511 258	1 178 405	1 523 863	1 538 860
Cutlery, hand tools and general hardware	30 999	18 696	20 360	29 001	17 670	18 929
Metal containers, e.g. cans and tins	83 314	71 209	75 307	80 906	75 816	73 361
Cables, wire products, springs	64 674	69 375	73 691	63 333	66 714	72 145
Metal fasteners	49 803	90 787	81 382	49 141	87 402	79 887
All other metal products	613 551	616 750	706 538	610 267	610 828	697 382
Domestic appliances	40 625	34 044	31 927	43 220	34 006	33 895
Electric motors, generators and transformers	450 561	353 924	353 642	449 096	345 725	351 353
Insulated wire and cables	316 229	310 428	301 000	323 209	300 288	306 233
Accumulators, primary cells and primary batteries	13 124	11 930	11 457	13 590	11 951	11 760
Television, radio and communication apparatus	900 448	1 907 859	1 838 236	962 096	1 927 349	1 974 248
Motor vehicles	2 411 621	2 350 294	2 535 647	2 371 896	2 424 477	2 502 245
Parts and accessories for motor vehicles	300 788	475 706	312 396	337 664	524 347	351 956
Furniture	255 493	523 985	371 056	226 203	367 867	328 326

* 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 - <ul style="list-style-type: none"> • the manufacturing, processing, making or packing of products; • the slaughtering of animals, including poultry; and • installation, assembly, completion, repair and related work. |
| Classification | 5 | The 1993 edition of the Standard Industrial Classification of all Economic Activities (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 International Standard Industrial Classification of all Economic Activities (ISIC) with suitable adaptations for local conditions. Statistics in this publication are presented at SIC division, 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 2 500 manufacturing establishments. |

- 9 The above-mentioned measurement method in paragraph 7 was followed in 40 of the various major groups. On account of certain considerations more appropriate indicators were used for the four remaining major groups namely "other transport equipment"; tobacco products and coke and refined petroleum products and bodies for motor vehicles. The volume indices for the major groups tobacco products and coke and refined petroleum products 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.
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- 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 November 2001 is 62,9%. The response rates by manufacturing major division are tabulated in table B.

Table B - Response rates for November 2001

Manufacturing major divisions	Sample No. of establishments	% response
Food and food products	318	60,1
Beverages	67	68,7
Textile	112	61,6
Total wearing apparel	136	63,2
Tanning and dressing of leather	26	65,4
Footwear	21	71,4
Wood and products of wood	121	60,3
Paper and paper products	93	64,5
Total publishing and printing	89	59,6
Coke and refined petroleum products	30	83,3
Basic chemicals	78	60,3
Other chemical products	111	61,3
Rubber products	23	60,9
Plastic products	86	61,6
Glass and glass products	14	85,7
Other non-metallic mineral products	143	60,1
Basic iron and steel products	42	61,9
Basic precious and non-ferrous metal products	24	62,5
Fabricated metal products	235	60,4
Total machinery and equipment	184	75,5
Electrical machinery, apparatus	79	60,8
Radio, television and communication apparatus	23	65,2
Professional equipment	27	63,0
Motor vehicles; trailers; parts and accessories	122	58,2
Other transport equipment	38	63,2
Furniture	66	60,6
Other manufacturing industries	83	61,4
Total	2391	62,9

Glossary

Enterprise	An enterprise (firm) is a legal entity consisting of one or more establishments. The establishments need not necessarily all be manufacturing establishments, but some may be classifiable as other industries of the economy, such as wholesale trade, retail trade, motor trade and construction.
Establishment	An establishment is defined as an enterprise (firm), or part of an enterprise, that is situated at a single location and in which only a single (non-ancillary) productive activity is carried out or in which the principal productive activity accounts for most of the value added.
Index of physical volume of manufacturing production	The index of physical volume of manufacturing production or a production index is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 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; • 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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