

Manufacturing: production and sales
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Contents

Notes

Tables

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

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

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

Table 4 Value of sales of manufactured products according to manufacturing divisions and major groups (R'000)

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

Additional information

Explanatory notes

Technical notes

Glossary

For more information

Key figures as at the end of November 2000

Actual		% change	% change	% change
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estimates	November 2000	between November 1999 and November 2000	between September 1999 to November 1999 and September 2000 to November 2000	between January 1999 to November 1999 and January 2000 to November 2000
Physical volume of manufacturing production index (1995=100)	119,7	+3,6	+4,1	+4,5
Total value of sales of manufactured products (R million)	43 440,6	+11,7	+11,5	+12,3

Seasonally adjusted estimates	November 2000	% change between October 2000 and	% change between June 2000 to August 2000

		November 2000	and September 2000 to November 2000
Physical volume of manufacturing production index (1995=100)	108,2	+2,7	+0,4
Total value of sales of manufactured products (R million)	39 016,7	+3,3	+1,9

Key findings as at the end of November 2000

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the three months ended November 2000 reflected an increase of 0,4% after seasonal adjustment compared with the previous three months. Higher production was reported by 14 of the 27 manufacturing divisions.

The major contributors to the increase of 0,4% after seasonal adjustment in the total manufacturing production were the motor vehicle division (+0,4 of a percentage point), followed by basic iron and steel products (+0,3 of a percentage point) and machinery and equipment (+0,3 of a percentage point) divisions. However, these increases were partially counteracted by decreases in production reported by the beverage (-0,3 of a percentage point), wearing apparel (-0,2 of a percentage point), other chemical products (-0,2 of a percentage point), fabricated metal products (-0,2 of a percentage point) and food and

food products (-0,2 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 September 2000 to November 2000	Quarterly percentage change (September 2000 to November 2000 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	98,2	-1,9	-0,2
Beverages	4,6	91,5	-7,1	-0,3
Total textiles	2,9	91,1	-4,2	-0,1
Total wearing apparel	3,6	78,5	-5,6	-0,2
Tanning and dressing of leather	0,4	127,8	+6,9	+0,0
Footwear	0,9	60,9	-7,2	-0,1
Wood and products of wood	1,9	120,6	+0,1	+0,0
Paper and paper products	5,3	106,7	+2,4	+0,1
Total publishing and printing	4,1	87,5	-2,0	-0,1
Coke and refined petroleum products	4,2	110,5	+1,2	+0,1
Basic chemicals	4,5	137,3	-2,6	-0,1
Other chemical products	6,2	98,7	-3,7	-0,2
Rubber products	1,4	103,1	+7,0	+0,1
Plastic products	3,1	89,1	-1,4	-0,0
Glass and glass products	1,0	93,3	-0,6	-0,0
Other non-metallic mineral products	3,5	92,0	+3,3	+0,1
Basic iron and steel products	7,6	117,4	+4,1	+0,3
Basic precious and non-ferrous metal products	3,2	170,3	+6,0	+0,2
Fabricated metal products	7,0	102,4	-2,3	-0,2
Total machinery and equipment	5,8	103,2	+4,6	+0,3
Electrical machinery, apparatus	3,4	102,6	+1,5	+0,1
Radio, television and communication apparatus	1,0	112,5	-7,6	-0,1
Professional equipment	0,5	86,3	+7,6	+0,1
Motor vehicles; trailers; parts and accessories	8,0	130,6	+5,2	+0,4
Other transport equipment	1,0	118,6	+7,0	+0,1
Furniture	1,6	99,3	-1,5	-0,0
Other manufacturing divisions	2,6	114,8	+1,6	+0,1
Total	100,0	106,9	+0,4	+0,4

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

SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products for the three months ended November 2000 reflected an increase of 1,9% (R2 151 million) after seasonal adjustment compared with the previous three months. Furthermore, the actual value of sales of manufactured products for the three months ended November 2000 reflected an increase of 11,5% (+R12 908 million) compared with the three months ended November 1999. Higher manufacturing sales were reported by 21 of the 27 manufacturing divisions during this period.

The increase of 1,9% after seasonal adjustment in the total value of sales of manufactured products was mainly due to large increases reported by the basic precious and non-ferrous metal products (+9,4% or +R354 million), basic iron and steel products (+7,1% or +R570 million), paper and paper products (+6,2% or +R360 million), motor vehicle (+5,6% or +R753 million), and coke and refined petroleum products (+4,5% or +R372 million) divisions.

The major contributors to the increase of 11,5% in the actual value of sales of manufactured products were the coke and refined petroleum products (+2,7 percentage points or +R3 004 million), motor vehicle (+2,4 percentage points or +R2 630 million), basic iron and steel products (+1,5 percentage points or +R1 672 million) and paper and paper products (+0,9 of a percentage point or +R1 048 million) divisions.

Notes

Forthcoming issues	Issue	Expected release date
	December 2000	6 February 2001
	January 2001	8 March 2001
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	1994	1995	1996	1997	1998	1999	2000
Actual indices							
J	72,7	80,6	83,6	89,8	89,6	86,7	88,8

F	87,0	97,6	96,7	103,1	101,1	98,0	103,2
M	95,6	104,2	102,6	102,5	102,8	101,5	109,0
A	82,8	91,0	96,4	105,5	96,3	94,8	93,3
M	84,8	101,8	104,1	106,2	101,1	101,1	106,5
J	92,4	102,4	102,9	104,9	104,5	100,5	110,4
J	92,9	101,7	104,7	108,2	104,4	104,3	107,2
A	94,0	106,0	107,8	105,8	100,0	103,5	108,5
S	100,9	106,7	105,2	108,3	106,8	107,0	112,5
O	104,2	112,5	115,8	119,1	111,8	112,9	116,9
N	108,2	110,7	114,4	111,7	109,8	115,5	119,7 1/
D	85,3	84,8	83,7	86,9	85,3	90,6	
Year	91,7	100,0	101,5	104,3	101,1	101,4	
Seasonally adjusted indices							
J	87,5	96,5	99,1	105,7	104,9	100,9	102,8
F	88,3	99,3	98,6	105,1	102,8	99,7	104,7
M	91,1	100,0	99,5	100,3	101,1	100,0	107,7
A	88,8	97,3	102,2	111,2	101,4	99,6	98,3
M	85,3	101,7	103,9	105,4	100,1	100,3	105,7
J	91,3	101,1	101,5	103,3	102,9	99,0	108,6
J	91,6	99,9	102,4	105,6	101,7	101,7	104,3
A	90,9	102,6	104,6	103,0	97,6	101,5	106,5
S	95,8	101,4	100,2	103,1	101,7	102,0	107,0
O	94,0	101,3	103,3	106,3	100,1	101,4	105,4
N	97,2	99,8	103,0	100,8	99,1	104,3	108,2
D	98,1	98,2	98,9	102,5	101,2	108,3	

* 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	Actual indices			Seasonally adjusted indices			
			1999	November	October	November	November	October	November
				1999	2000		1999	2000	
Food and food products	10,7	99,2	108,6	106,3	106,0	98,4	96,7	96,2	
Meat, fish, fruit etc.	2,8	112,4	120,7	118,7	115,5	115,3	112,7	110,0	
Dairy products	1,4	92,8	108,5	96,3	102,6	95,0	89,9	90,1	
Grain mill products	2,1	93,9	95,3	93,5	97,8	90,7	84,9	93,2	
Other food products	4,4	95,3	107,3	107,6	104,8	92,3	94,2	90,7	
Beverages	4,6	100,8	120,0	95,8	104,4	102,4	87,2	89,2	
Total textiles	2,9	91,3	107,5	100,9	105,7	94,7	85,1	93,3	
Textiles	1,7	83,8	94,5	88,6	94,0	86,1	74,1	85,7	
Other textile products	1,2	101,9	125,8	118,4	122,2	106,7	100,8	104,0	
Total wearing apparel	3,6	88,3	109,7	93,2	99,3	91,6	75,0	82,4	
Knitted, crocheted articles	0,6	82,5	97,4	80,6	82,9	90,9	70,8	77,1	
Wearing apparel	3,0	89,5	112,2	95,7	102,6	91,7	75,9	83,5	
Tanning and dressing of leather	0,4	122,9	148,5	139,4	161,8	121,1	118,8	132,0	
Footwear	0,9	69,2	85,0	76,3	73,1	70,3	60,3	60,8	
Wood and products of wood	1,9	114,1	138,7	133,4	139,5	119,9	119,3	119,9	
Sawmilling and planing of wood	0,8	104,2	131,6	118,8	123,4	113,1	106,9	105,2	
Products of wood	1,2	120,6	143,3	142,9	150,0	124,4	127,4	129,6	
Paper and paper products	5,3	98,2	113,0	115,0	108,9	106,5	108,8	102,8	
Total publishing and printing	4,1	93,1	105,4	94,2	101,9	92,5	84,8	89,5	

Publishing	1,5	99,6	111,1	101,6	108,7	101,6	94,6	99,6
Printing, recorded media	2,6	89,5	102,2	90,0	98,1	87,4	79,2	83,9
Coke and refined petroleum products	4,2	106,4	110,9	109,1	113,8	108,0	110,8	110,5
Basic chemicals	4,5	126,9	162,6	165,1	171,5	138,3	144,4	144,5
Other chemical products	6,2	103,3	122,5	111,5	114,9	107,6	95,9	100,8
Rubber products	1,4	92,8	103,8	110,9	114,4	95,3	105,4	104,9
Plastic products	3,1	86,5	103,0	98,7	107,1	87,4	85,2	90,7
Glass and glass products	1,0	85,2	102,2	97,4	123,6	82,8	92,2	99,5
Other non-metallic mineral products	3,5	85,0	103,0	97,3	108,4	90,7	89,8	95,0
Basic iron and steel products	7,6	96,9	109,2	125,0	120,5	109,6	116,9	121,1
Basic precious and non-ferrous metal products	3,2	153,3	170,2	178,1	171,1	166,3	171,3	167,6
Fabricated metal products	7,0	99,1	109,1	111,4	121,0	94,4	103,3	105,2
Structural metal products	2,4	95,9	102,2	99,2	104,5	84,2	91,3	86,5
Other fabricated metal product	4,6	100,8	112,6	117,7	129,5	99,7	109,5	114,8
Total machinery and equipment	5,8	97,5	88,7	102,4	104,8	90,9	96,2	107,6
General purpose machinery	2,5	111,5	91,6	118,6	110,8	98,0	117,4	119,6
Special purpose machinery	2,9	84,4	80,9	85,1	95,6	82,4	76,9	96,5
Household appliances	0,4	105,3	128,4	126,5	135,1	107,8	102,8	113,4
Electrical machinery, apparatus	3,4	96,5	98,9	118,9	106,5	90,5	104,4	98,5
Radio, television and communication apparatus	1,0	126,9	133,3	115,8	102,4	125,6	112,0	96,7
Professional equipment	0,5	77,9	81,9	79,7	106,3	76,3	78,9	99,2
Motor vehicles; trailers; parts and accessories	8,0	102,5	124,8	148,7	147,8	111,0	126,2	131,4
Motor vehicles	4,5	97,0	118,4	137,6	122,3	106,9	116,4	110,4
Bodies for motor vehicles; trailers and semi-trailers	0,5	64,3	73,3	52,2	67,4	61,1	51,1	56,0
Parts and accessories	3,0	117,7	143,9	183,0	200,9	126,3	154,7	176,7
Other transport equipment	1,0	113,1	102,0	118,0	115,6	107,8	116,7	122,3
Furniture	1,6	102,6	125,1	129,1	137,3	100,4	101,2	110,4
Other manufacturing divisions	2,6	107,7	134,7	135,5	150,3	109,8	110,4	122,8
Total	100,0	101,4	115,5	116,9	119,7	104,3	105,4	108,2

* Revised
1/ Preliminary

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

Month	1994	1995	1996	1997	1998	1999	2000*
Actual values							
J	16 267 098	19 206 220	21 803 249	25 254 480	25 913 926	26 410 458	28 477 807
F	19 815 926	24 414 317	26 328 500	29 866 793	29 901 544	30 607 558	35 109 412
M	22 056 191	26 712 878	28 188 286	29 866 272	32 190 538	32 788 344	37 905 018
A	19 132 660	22 897 368	26 231 967	30 438 604	29 758 879	30 508 382	32 693 096
M	19 723 817	25 806 431	28 293 052	30 626 091	30 352 835	32 737 449	37 130 660
J	22 055 323	26 204 689	28 261 416	30 575 542	31 723 893	33 126 289	38 705 421
J	22 251 097	25 613 126	28 378 392	31 169 707	31 732 667	33 429 319	36 277 003
A	21 957 670	27 064 919	29 568 761	31 400 042	30 810 619	33 740 922	38 973 454
S	23 954 300	27 737 968	29 549 724	31 344 644	32 896 327	35 884 855	39 926 995
O	25 209 944	29 294 559	33 070 022	35 902 602	34 970 472	37 425 965	41 735 857
N	26 275 416	29 960 074	33 084 713	33 709 581	34 300 610	38 884 753	43 440 629 1/
D	20 667 319	23 877 458	26 338 721	28 128 922	29 016 347	33 021 543	

Year | 259 366 761 308 790 007 339 096 803 368 283 280 373 568 657 398 565 837

Seasonally adjusted values															
J	19 821 863	23 559 575	26 497 163	30 655 684	31 271 571	31 830 445	34 236 496	F	20 114 789	24 776 069	26 804 331	30 501 808	30 600 557	31 421 453	35 997 691
M	20 742 447	25 282 722	26 862 053	28 690 185	30 972 216	31 613 906	36 459 936	A	20 323 622	24 275 495	27 714 107	32 061 060	31 356 890	32 148 437	34 515 999
M	20 156 832	26 147 047	28 458 945	30 750 409	30 450 007	32 907 262	37 317 227	J	21 895 474	25 969 419	28 042 979	30 263 536	31 358 863	32 785 071	38 159 648
J	22 181 507	25 542 799	28 352 993	31 099 680	31 659 848	33 310 438	36 157 541	A	21 206 012	26 196 732	28 777 949	30 700 649	30 287 994	33 268 252	38 525 597
S	22 758 331	26 497 978	28 287 558	30 050 197	31 531 408	34 439 744	38 210 163	O	22 683 814	26 215 412	29 564 114	32 154 283	31 288 180	33 638 643	37 766 776
N	23 532 044	26 853 712	29 713 275	30 269 633	30 717 926	34 809 871	39 016 742	D	23 386 621	26 820 059	29 372 604	31 037 480	31 795 470	36 521 379	

* 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
		1999	2000	1999	2000	2000	
Food and food products	57 155 867	5 371 092	5 309 510	5 410 468	4 770 841	4 804 477	4 820 477
Meat, fish, fruit etc.	17 159 161	1 570 489	1 556 059	1 583 439	1 434 081	1 432 843	1 451 817
Dairy products	7 164 653	706 872	653 840	724 432	612 390	613 080	627 443
Grain mill products	14 871 882	1 332 589	1 348 471	1 337 442	1 253 637	1 241 141	1 258 930
Other food products	17 960 171	1 761 142	1 751 140	1 765 155	1 470 733	1 517 413	1 482 287
Beverages	20 605 141	2 004 528	1 742 052	1 858 884	1 769 561	1 622 643	1 650 957
Total textiles	9 770 275	970 980	895 530	974 161	854 813	772 604	859 744
Textiles	6 304 565	597 240	563 993	609 918	538 419	495 393	549 714
Other textile products	3 465 710	373 740	331 537	364 243	316 394	277 211	310 030
Total wearing apparel	10 994 539	1 168 127	1 011 876	1 078 208	948 171	801 353	871 842
Knitted, crocheted articles	1 858 591	181 770	144 308	156 672	163 126	134 594	140 327
Wearing apparel	9 135 948	986 357	867 568	921 536	785 045	666 759	731 515
Tanning and dressing of leather	2 577 530	243 163	275 473	287 862	193 422	223 306	229 516
Footwear	2 379 127	262 818	231 370	226 088	203 141	180 803	175 021
Wood and products of wood	8 386 436	828 900	845 123	921 869	726 960	754 749	807 382
Sawmilling and planing of wood	2 380 674	235 558	252 687	260 914	205 283	224 772	226 861
Products of wood	6 005 762	593 342	592 436	660 955	521 677	529 977	580 521
Paper and paper products	20 400 594	1 973 515	2 101 663	2 239 178	1 824 634	2 069 989	2 075 445
Total publishing and printing	11 664 938	1 171 257	1 076 652	1 209 844	1 003 900	966 655	1 037 601
Publishing	4 471 082	423 345	427 526	437 520	389 328	400 298	403 785
Printing, recorded media	7 193 856	747 912	649 126	772 324	614 572	566 357	633 816
Coke and refined petroleum products	20 999 687	2 112 280	3 349 269	3 156 715	2 001 732	3 132 755	2 988 800
Basic chemicals	19 872 911	2 242 233	2 276 768	2 343 986	1 854 734	1 977 201	1 947 757
Other chemical products	25 490 045	2 496 046	2 505 295	2 565 800	2 198 499	2 158 276	2 258 539
Rubber products	4 167 229	384 963	459 909	464 275	362 995	421 210	438 830
Plastic products	9 723 276	999 977	1 021 098	1 123 308	834 021	882 633	934 349
Glass and glass products	2 140 820	248 198	253 704	273 229	185 393	209 217	202 880
Other non-metallic mineral products	9 257 131	939 455	978 877	1 060 610	831 942	891 043	935 105
Basic iron and steel products	26 056 845	2 483 881	2 935 637	3 046 564	2 412 722	2 777 352	2 959 111

Basic precious and non-ferrous metal products	13 107 160	1 338 299	1 450 549	1 451 652	1 232 890	1 371 430	1 337 191
Fabricated metal products	23 450 896	2 136 537	2 208 937	2 463 413	1 872 543	2 032 614	2 162 794
Structural metal products	8 375 921	755 860	707 697	767 489	678 681	648 760	690 557
Other fabricated metal product	15 074 975	1 380 677	1 501 240	1 695 924	1 193 862	1 383 854	1 472 237
Total machinery and equipment	18 482 182	1 558 288	1 812 108	1 813 037	1 515 081	1 672 880	1 765 180
General purpose machinery	8 715 989	720 260	798 529	813 251	695 437	768 138	785 274
Special purpose machinery	7 839 996	634 032	804 681	781 688	653 014	738 482	801 584
Household appliances	1 926 197	203 996	208 898	218 098	166 630	166 260	178 322
Electrical machinery, apparatus	11 835 715	1 062 757	1 266 325	1 275 726	958 640	1 137 829	1 155 014
Radio, television and communication apparatus	4 441 396	357 616	298 730	276 639	359 332	302 436	281 352
Professional equipment	1 299 945	117 152	121 175	145 044	107 237	117 796	132 775
Motor vehicles; trailers; parts and accessories	42 719 836	4 339 492	5 019 252	5 283 296	4 003 109	4 512 464	4 860 884
Motor vehicles	30 465 944	3 123 567	3 463 275	3 517 445	2 937 073	3 172 670	3 308 928
Bodies for motor vehicles; trailers and semi-trailers	1 529 083	149 240	134 140	158 378	127 542	122 064	134 772
Parts and accessories	10 724 809	1 066 685	1 421 837	1 607 473	938 494	1 217 730	1 417 184
Other transport equipment	2 789 057	209 926	303 264	238 243	193 043	283 002	218 296
Furniture	6 356 278	647 903	673 785	717 992	501 611	500 924	556 722
Other manufacturing divisions	12 440 981	1 215 370	1 311 926	1 534 538	1 088 904	1 189 135	1 353 178
Total	398 565 837	38 884 753	41 735 857	43 440 629	34 809 871	37 766 776	39 016 742

* 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
	1999	2000		1999	2000	
Spinning, weaving and finishing of textiles	228 655	180 918	197 695	226 931	174 166	195 820
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	27 440	27 980	26 682	31 014	27 025	30 339
Other textile articles	56 198	73 715	59 110	58 297	70 109	61 374
Knitted and crotcheted fabrics and articles	154 242	160 476	142 575	156 012	142 839	145 016
Wearing apparel	785 659	749 936	736 906	765 907	650 765	714 938
Sawmilling and preserving of timber	21 559	28 503	28 701	22 373	28 581	29 763
Veneer sheets, plywood, laminboard, etc.	24 264	23 810	26 269	21 985	22 459	23 880
Builders' carpentry and joinery	64 576	51 298	51 881	58 885	45 579	46 938
Pulp, paper and paperboard	365 612	596 529	584 860	348 887	544 253	560 766
Corrugated paper and paper-board and containers	410 047	415 971	403 623	389 403	372 566	384 063
Paints, varnishes and coatings	30 463	24 643	27 279	22 268	18 511	19 527
Basic iron and steel products	3 040 030	3 043 241	3 043 801	2 996 875	2 988 737	2 997 722
Steel pipe and tube mills	196 379	198 681	182 039	185 881	173 325	172 470

Basic precious and non-ferrous metal products	880 389	1 261 321	1 201 858	874 768	1 176 888	1 194 957
Metal structures, parts	1 248 992	1 298 919	1 186 062	1 235 004	1 269 317	1 176 229
Cutlery, hand tools and general hardware	32 510	28 347	30 999	30 785	26 105	29 279
Metal containers, e.g. cans and tins	64 410	75 742	83 314	61 078	75 477	79 147
Cables, wire products, springs	58 641	65 948	63 227	58 858	63 807	63 719
Metal fasteners	54 607	57 788	47 664	54 852	58 197	47 902
All other metal products	439 999	557 273	612 016	459 215	504 500	638 220
Domestic appliances	38 452	34 733	40 625	41 433	39 381	43 257
Electric motors, generators and transformers	463 276	462 282	439 261	479 082	459 608	455 416
Insulated wire and cables	182 619	276 891	261 212	198 561	269 072	282 082
Accumulators, primary cells and primary batteries	13 730	12 703	13 124	14 259	12 397	13 562
Television, radio and communication apparatus	797 749	1 109 539	900 448	816 977	1 043 998	927 687
Motor vehicles	1 780 922	2 164 940	2 253 161	1 842 155	2 276 970	2 314 553
Parts and accessories for motor vehicles	223 610	280 585	278 141	254 646	308 486	317 676
Furniture	241 661	420 458	384 818	211 311	316 556	337 081

* 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	<p>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	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	<p>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.</p>
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</p>

		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	<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.
Unpublished statistics	19	<p>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.</p>
Rounding-off of figures	20	<p>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.</p>
Pre-release policy	21	<p>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:</p>

	22	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.
	23	Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za .
Symbols and abbreviations		<p>Stats SA Statistics South Africa</p> <p>TBVC states Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states</p> <p>SIC Standard Industrial Classification of all Economic Activities</p> <p>ISIC International Standard Classification of all Economic Activities</p> <p>SNA System of National Accounts</p> <p>PPI Production Price Index</p> <p>GDP Gross Domestic Product</p> <p>1/ Preliminary figures</p> <p>* Revised figures</p>

Technical notes	
Response rates	See the response rates for November 2000, by manufacturing major divisions, in table B.

Table B - Response rates for November 2000

Manufacturing major divisions	% response
Food and food products	54,2
Beverages	56,9
Textile	62,5
Total wearing apparel	49,0
Tanning and dressing of leather	36,4
Footwear	43,5
Wood and products of wood	67,3
Paper and paper products	62,4
Total publishing and printing	57,1
Coke and refined petroleum products	58,1
Basic chemicals	78,5
Other chemical products	71,7

Rubber products	82,6
Plastic products	56,7
Glass and glass products	41,7
Other non-metallic mineral products	58,9
Basic iron and steel products	75,0
Basic precious and non-ferrous metal products	64,0
Fabricated metal products	68,7
Total machinery and equipment	54,1
Electrical machinery, apparatus	61,1
Radio, television and communication apparatus	73,9
Professional equipment	64,3
Motor vehicles; trailers; parts and accessories	40,2
Other transport equipment	48,6
Furniture	36,5
Other manufacturing industries	42,0
Total	58,0 ^{1/}

^{1/} Manufacturing concerns normally close down their operations during the festive season, and upon re-opening in the new year goes through a period of catching-up on outstanding administrative issues. This normally leads to manufacturers being unable to provide Stats SA with their manufacturing production and sales information for November timeously.

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;

	<ul style="list-style-type: none"> ▪ 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	<p>Output is the aggregate value of goods manufactured and work done.</p> <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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