

Manufacturing: production and sales

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Actual		% change	% change	% change
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estimates	October 2000	between October 1999 and October 2000	between August 1999 to October 1999 and August 2000 to October 2000	between January 1999 to October 1999 and January 2000 to October 2000
Physical volume of manufacturing production index (1995=100)	117,2	+3,8	+4,6	+4,7
Total value of sales of manufactured products (R million)	41 658,4	+11,3	+12,6	+12,3

Seasonally adjusted estimates	October 2000	% change between September 2000 and October 2000	% change between May 2000 to July 2000 and August 2000 to October 2000
Physical volume of manufacturing production index (1995=100)	105,5	-1,3	+0,1

Total value of sales of manufactured products (R million)	37 627,9	-1,3	+2,4
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Key findings as at the end of October 2000

MANUFACTURING PRODUCTION INCREASES

Manufacturing production for the three months ended October 2000 reflected a slight increase of 0,1% after seasonal adjustment compared with the previous three months. Higher manufacturing production was reported by 11 of the 27 manufacturing divisions.

The major contributors to the increase of 0,1% after seasonal adjustment in the total manufacturing production were the motor vehicle division (+0,5 of a percentage point), followed by basic precious and non-ferrous metal products (+0,2 of a percentage point) and fabricated metal products (+0,2 of a percentage point) divisions. However, these increases were partially counteracted by decreases in production reported by the beverages (-0,3 of a percentage point), wearing apparel (-0,3 of a percentage point), other chemical products (-0,2 of a percentage point) and basic iron and steel products (-0,2 of a percentage point) divisions (cf. table A).

SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products for the three months ended October 2000 reflected an increase of 2,4% (R2 711 million) after seasonal adjustment compared with the previous three months. Furthermore, the actual value of sales of manufactured products for the three months ended October 2000 reflected an increase of 12,6% (+R13 501 million) compared with the three months ended October 1999. Higher manufacturing sales were reported by 20 of the 27 manufacturing divisions during this period.

The increase of 2,4% after seasonal adjustment in the total value of sales of manufactured products was mainly due to large increases reported by the motor vehicle (+12,1% or +R1 544 million), coke and refined petroleum products (+9,3% or +R737 million), basic precious and non-ferrous metal products (+8,2% or +R308 million), basic chemicals (+3,6% or +R196 million) and paper and paper products (+3,1% or +R178 million) divisions during this period.

The major contributors to the increase of 12,6% in the actual value of sales of manufacturing products were the coke and refined petroleum products (+3,0 percentage points or +R3 174 million), motor vehicle (+2,6 percentage points or +R2 786 million), basic iron and steel products (+1,4 percentage

points or +R1 533 million) and basic precious and non-ferrous metal products (+0,8 percentage points or +R847 million) divisions.

Notes

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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 August 2000 to October 2000	Quarterly percentage change (August 2000 to October 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	99,7	+0,6	+0,1
Beverages	4,6	91,7	-6,4	-0,3
Total textiles	2,9	91,0	-5,3	-0,1
Total wearing apparel	3,6	77,8	-8,4	-0,3
Tanning and dressing of leather	0,4	119,3	-10,8	-0,0
Footwear	0,9	62,8	-5,7	-0,1
Wood and products of wood	1,9	120,7	-0,9	-0,0
Paper and paper products	5,3	107,6	-0,3	-0,0
Total publishing and printing	4,1	87,5	-2,6	-0,1

Coke and refined petroleum products	4,2	110,2	+2,0	+0,1
Basic chemicals	4,5	136,9	-2,6	-0,1
Other chemical products	6,2	98,6	-2,8	-0,2
Rubber products	1,4	99,6	-2,3	-0,0
Plastic products	3,1	90,2	+1,8	+0,1
Glass and glass products	1,0	92,5	+4,8	+0,1
Other non-metallic mineral products	3,5	90,3	+2,6	+0,1
Basic iron and steel products	7,6	112,6	-2,7	-0,2
Basic precious and non-ferrous metal products	3,2	170,7	+7,0	+0,2
Fabricated metal products	7,0	104,6	+2,6	+0,2
Total machinery and equipment	5,8	99,0	-0,0	-0,0
Electrical machinery, apparatus	3,4	101,2	-2,2	-0,1
Radio, television and communication apparatus	1,0	126,5	+12,0	+0,1
Professional equipment	0,5	79,0	-2,2	-0,0
Motor vehicles; trailers; parts and accessories	8,0	128,9	+6,4	+0,5
Other transport equipment	1,0	114,6	+4,6	+0,1
Furniture	1,6	95,8	-3,5	-0,1
Other manufacturing divisions	2,6	112,3	+3,2	+0,1
Total	100,0	106,3	+0,1	+0,1

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

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	117,2 1/
N	108,2	110,7	114,4	111,7	109,8	115,5	
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	105,6	104,9	100,8	102,7
F	88,3	99,3	98,7	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	111,1	101,3	99,5	98,1
M	85,3	101,7	103,9	105,4	100,1	100,3	105,7
J	91,3	101,1	101,5	103,3	102,8	98,9	108,5
J	91,6	99,9	102,4	105,6	101,7	101,6	104,3
A	90,9	102,6	104,5	103,0	97,6	101,4	106,4
S	95,8	101,4	100,2	103,0	101,6	101,8	106,9
O	94,0	101,3	103,3	106,3	100,1	101,3	105,5
N	97,2	99,8	103,1	101,0	99,6	105,1	
D	98,1	98,2	98,9	102,5	101,2	108,2	

* Revised
1/ Preliminary

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

Base 1995 = 100

Manufacturing divisions and major groups	Weights	Year	Actual indices			Seasonally adjusted indices			
			1999	October	September	October/1/	October	September	October
				1999	2000		1999	2000	
Food and food products	10,7	99,2	110,0	107,0	106,6	100,3	101,7	97,6	
Meat, fish, fruit etc.	2,8	112,4	114,2	110,7	118,7	109,0	116,2	113,1	
Dairy products	1,4	92,8	99,2	93,4	96,3	92,9	91,6	90,2	
Grain mill products	2,1	93,9	101,4	91,4	94,7	92,3	96,5	86,1	
Other food products	4,4	95,3	114,8	116,2	107,6	100,8	98,0	95,5	
Beverages	4,6	100,8	114,1	98,5	95,8	103,0	98,6	86,5	
Total textiles	2,9	91,3	112,5	102,3	101,8	95,3	95,0	85,9	
Textiles	1,7	83,8	104,0	91,0	89,3	87,7	84,4	74,8	
Other textile products	1,2	101,9	124,6	118,2	119,5	106,1	110,0	101,6	
Total wearing apparel	3,6	88,3	111,7	89,0	93,2	89,3	77,5	74,5	
Knitted, crocheted articles	0,6	82,5	99,9	70,3	80,6	87,1	68,8	70,2	
Wearing apparel	3,0	89,5	114,1	92,8	95,7	89,8	79,3	75,4	
Tanning and dressing of leather	0,4	122,9	152,4	126,9	139,4	124,6	135,7	113,3	
Footwear	0,9	69,2	86,8	71,6	78,0	68,4	61,7	61,5	
Wood and products of wood	1,9	114,1	133,1	129,7	133,9	118,1	122,5	119,4	
Sawmilling and planing of wood	0,8	104,2	122,4	111,8	120,1	108,9	102,0	107,4	
Products of wood	1,2	120,6	140,1	141,5	142,9	124,1	135,9	127,3	
Paper and paper products	5,3	98,2	100,5	115,4	115,0	95,0	109,1	109,5	
Total publishing and printing	4,1	93,1	104,3	90,4	94,7	93,4	88,2	85,0	
Publishing	1,5	99,6	113,8	97,0	103,1	105,6	95,2	95,2	
Printing, recorded media	2,6	89,5	98,9	86,7	90,0	86,6	84,2	79,4	
Coke and refined petroleum products	4,2	106,4	103,1	103,2	109,1	104,6	110,3	111,0	
Basic chemicals	4,5	126,9	140,5	123,0	164,9	122,1	122,7	143,3	
Other chemical products	6,2	103,3	121,2	107,4	110,1	104,4	99,1	94,6	
Rubber products	1,4	92,8	102,1	107,8	110,9	96,7	98,5	104,9	
Plastic products	3,1	86,5	99,6	96,0	99,9	86,1	91,0	86,8	
Glass and glass products	1,0	85,2	87,3	90,2	97,4	81,8	87,8	91,8	
Other non-metallic mineral products	3,5	85,0	93,1	96,1	97,3	85,1	90,5	89,1	
Basic iron and steel products	7,6	96,9	114,2	115,0	125,0	106,4	113,8	116,0	

Basic precious and non-ferrous metal products	3,2	153,3	153,2	180,2	178,1	147,7	172,4	171,7
Fabricated metal products	7,0	99,1	98,5	105,2	111,4	90,1	98,4	102,9
Structural metal products	2,4	95,9	85,5	86,3	99,2	77,6	81,9	91,9
Other fabricated metal products	4,6	100,8	105,2	114,9	117,7	96,5	106,9	108,5
Total machinery and equipment	5,8	97,5	101,5	117,8	103,6	94,6	104,2	97,1
General purpose machinery	2,5	111,5	112,6	138,3	119,7	111,6	123,0	118,5
Special purpose machinery	2,9	84,4	87,4	96,9	85,1	78,2	85,4	76,8
Household appliances	0,4	105,3	134,6	141,2	137,2	107,5	123,7	109,8
Electrical machinery, apparatus	3,4	96,5	114,0	110,7	118,9	100,3	103,8	104,4
Radio, television and communication apparatus	1,0	126,9	140,2	148,4	125,8	133,6	130,1	120,2
Professional equipment	0,5	77,9	85,3	81,9	79,7	83,4	80,7	78,2
Motor vehicles; trailers; parts and accessories	8,0	102,5	119,7	139,6	148,7	102,4	134,3	127,3
Motor vehicles	4,5	97,0	108,4	133,6	137,6	93,1	127,3	119,2
Bodies for motor vehicles; trailers and semi-trailers	0,5	64,3	73,1	54,3	52,2	70,7	52,6	50,6
Parts and accessories	3,0	117,7	145,1	164,2	183,0	122,2	159,6	153,6
Other transport equipment	1,0	113,1	108,8	112,9	118,0	106,5	116,8	116,4
Furniture	1,6	102,6	131,8	106,5	129,1	102,1	86,2	100,3
Other manufacturing divisions	2,6	107,7	130,4	123,4	136,8	105,6	112,1	110,6
Total	100,0	101,4	112,9	112,5	117,2	101,3	106,9	105,5

* 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	37 119 040
J	22 055 323	26 204 689	28 261 416	30 575 542	31 723 893	33 126 289	38 703 981
J	22 251 097	25 613 126	28 378 392	31 169 707	31 732 667	33 429 319	36 267 658
A	21 957 670	27 064 919	29 568 761	31 400 042	30 810 619	33 740 922	38 956 536
S	23 954 300	27 737 968	29 549 724	31 344 644	32 896 327	35 884 855	39 938 049
O	25 209 944	29 294 559	33 070 022	35 902 602	34 970 472	37 425 965	41 658 407 1/
N	26 275 416	29 960 074	33 084 713	33 709 581	34 300 610	38 884 753	
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
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Seasonally adjusted values							
J	19 819 993	23 556 285	26 490 596	30 645 468	31 262 731	31 811 541	34 211 533
F	20 115 471	24 777 339	26 805 786	30 501 789	30 599 665	31 413 086	35 983 128
M	20 743 545	25 284 478	26 865 922	28 696 501	30 980 798	31 619 773	36 464 253

A	20 323 635	24 276 864	27 716 287	32 066 235	31 363 880	32 150 392	34 512 287
M	20 157 829	26 147 976	28 458 472	30 748 816	30 442 851	32 892 857	37 285 681
J	21 896 901	25 971 498	28 045 875	30 268 172	31 357 852	32 780 119	38 155 932
J	22 181 986	25 543 191	28 352 219	31 101 044	31 652 575	33 299 294	36 145 005
A	21 214 399	26 208 635	28 791 022	30 721 202	30 306 952	33 286 004	38 544 649
S	22 755 876	26 491 673	28 277 039	30 022 246	31 475 211	34 356 052	38 125 017
O	22 683 569	26 214 389	29 563 053	32 136 646	31 242 366	33 569 004	37 627 852
N	23 528 799	26 849 350	29 716 294	30 278 233	30 831 141	35 036 752	
D	23 378 472	26 810 256	29 363 446	31 027 858	31 779 063	36 503 409	

* Revised

1/ Preliminary

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

Manufacturing divisions and major groups	Year	Actual values			Seasonally adjusted values		
		October	September	October 1/	October	September	October
		1999	1999	2000	1999	2000	
Food and food products	57 155 867	5 241 983	4 842 410	5 314 518	4 720 770	4 919 831	4 812 623
Meat, fish, fruit etc.	17 159 161	1 540 039	1 453 341	1 550 618	1 413 706	1 497 128	1 429 090
Dairy products	7 164 653	628 812	636 195	653 840	585 063	623 130	613 116
Grain mill products	14 871 882	1 353 017	1 201 593	1 365 196	1 237 551	1 267 197	1 251 219
Other food products	17 960 171	1 720 115	1 551 281	1 744 864	1 484 450	1 532 376	1 519 198
Beverages	20 605 141	1 843 059	1 782 560	1 740 093	1 713 353	1 812 978	1 621 781
Total textiles	9 770 275	980 792	912 061	898 519	848 565	851 506	777 843
Textiles	6 304 565	619 304	565 371	563 993	545 700	524 734	497 310
Other textile products	3 465 710	361 488	346 690	334 526	302 865	326 772	280 533
Total wearing apparel	10 994 539	1 161 820	974 918	1 012 910	913 524	847 231	798 040
Knitted, crocheted articles	1 858 591	172 582	139 637	144 308	160 657	136 497	134 064
Wearing apparel	9 135 948	989 238	835 281	868 602	752 867	710 734	663 976
Tanning and dressing of leather	2 577 530	272 302	218 021	261 451	220 444	214 072	210 052
Footwear	2 379 127	248 604	212 375	236 548	193 054	177 517	184 578
Wood and products of wood	8 386 436	813 160	864 125	845 123	720 910	796 711	752 027
Sawmilling and planing of wood	2 380 674	225 736	236 969	252 687	199 686	213 871	223 496
Products of wood	6 005 762	587 424	627 156	592 436	521 224	582 840	528 531
Paper and paper products	20 400 594	1 736 327	2 242 130	2 095 408	1 674 668	1 985 666	2 058 865
Total publishing and printing	11 664 938	1 115 980	1 037 150	1 075 893	1 001 826	1 005 567	965 975
Publishing	4 471 082	420 352	394 871	430 652	393 488	383 712	401 321
Printing, recorded media	7 193 856	695 628	642 279	645 241	608 338	621 855	564 654
Coke and refined petroleum products	20 999 687	2 100 349	2 729 677	3 357 280	1 973 378	2 593 992	3 139 117
Basic chemicals	19 872 911	1 903 071	1 901 628	2 255 416	1 642 174	1 824 915	1 967 617
Other chemical products	25 490 045	2 489 583	2 366 361	2 473 186	2 154 564	2 201 227	2 130 353
Rubber products	4 167 229	389 984	423 814	459 909	352 812	395 923	414 248
Plastic products	9 723 276	924 942	962 870	1 021 098	789 211	906 831	873 834
Glass and glass products	2 140 820	236 871	202 714	253 704	196 524	180 742	209 991
Other non-metallic mineral products	9 257 131	856 896	924 091	974 131	772 550	845 005	879 631
Basic iron and steel products	26 056 845	2 376 277	2 880 653	2 913 381	2 220 416	2 825 291	2 727 681
Basic precious and non-ferrous metal products	13 107 160	1 160 429	1 515 725	1 450 549	1 102 443	1 426 778	1 375 269
Fabricated metal products	23 450 896	1 991 997	2 137 576	2 194 845	1 815 492	2 011 033	2 011 824
Structural metal products	8 375 921	639 087	627 806	713 958	584 419	615 639	652 417
Other fabricated metal products	15 074 975	1 352 910	1 509 770	1 480 887	1 231 073	1 395 394	1 359 407
Total machinery and equipment	18 482 182	1 585 564	1 965 654	1 820 813	1 439 258	1 721 301	1 673 536

General purpose machinery	8 715 989	711 425	992 431	802 036	674 078	833 202	771 841
Special purpose machinery	7 839 996	671 916	750 586	804 681	605 409	687 713	732 198
Household appliances	1 926 197	202 223	222 637	214 096	159 771	200 386	169 497
Electrical machinery, apparatus	11 835 715	1 074 239	1 197 770	1 270 635	973 178	1 117 917	1 150 948
Radio, television and communication apparatus	4 441 396	380 379	469 828	290 663	372 580	455 882	287 556
Professional equipment	1 299 945	109 183	124 621	121 175	105 664	117 444	117 742
Motor vehicles; trailers; parts and accessories	42 719 836	4 311 760	4 994 456	5 019 252	3 855 636	4 906 400	4 512 784
Motor vehicles	30 465 944	3 092 061	3 547 975	3 463 275	2 816 087	3 518 289	3 186 873
Bodies for motor vehicles; trailers and semi-trailers	1 529 083	129 225	137 198	134 140	115 033	134 435	120 896
Parts and accessories	10 724 809	1 090 474	1 309 283	1 421 837	924 516	1 253 676	1 205 015
Other transport equipment	2 789 057	235 291	222 231	300 075	220 266	239 687	287 895
Furniture	6 356 278	726 363	567 275	676 325	535 710	508 999	497 615
Other manufacturing divisions	12 440 981	1 158 760	1 265 355	1 325 507	1 040 034	1 234 571	1 188 427
Total	398 565 837	37 425 965	39 938 049	41 658 407	33 569 004	38 125 017	37 627 852

* Revised
1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	October	September	October 1/	October	September	October
	1999	2000		1999	2000	
Spinning, weaving and finishing of textiles	240 277	178 474	180 918	229 963	172 891	172 826
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	32 477	29 774	27 980	31 268	29 056	26 768
Other textile articles	77 771	87 611	73 715	74 550	82 341	70 807
Knitted and crocheted fabrics and articles	181 958	155 641	149 706	165 661	141 921	136 001
Wearing apparel	903 029*	692 323	651 667	813 190	629 391	585 269
Sawmilling and preserving of timber	21 537	26 310	28 503	21 425	26 381	28 483
Veneer sheets, plywood, laminboard, etc.	24 221	23 446	23 810	22 735	23 449	22 502
Builders' carpentry and joinery	63 722	45 201	51 298	55 999	45 699	45 435
Pulp, paper and paperboard	307 499	467 030	596 529	278 726	461 240	540 734
Corrugated paper and paperboard and containers	435 899	402 759	418 064	389 310	400 352	372 852
Paints, varnishes and coatings	47 302	26 140	24 643	34 269	20 482	17 804
Basic iron and steel products	2 958 326	3 070 975	3 043 241	2 897 667	3 048 999	2 976 490
Steel pipe and tube mills	182 975	176 013	198 681	162 604	173 528	175 596
Basic precious and non-ferrous metal products	1 152 297	1 155 101	1 261 321	1 078 015	1 163 069	1 174 139
Metal structures, parts	1 326 749	1 218 013	1 298 919	1 310 138	1 261 501	1 281 862
Cutlery, hand tools and general hardware	36 017	26 997	28 347	32 779	25 900	25 599
Metal containers, e.g. cans and tins	57 825	80 966	75 742	57 129	82 621	75 256

Cables, wire products, springs	63 212	62 077	65 948	61 173	61 259	63 901
Metal fasteners	48 360	56 160	57 788	49 105	59 198	58 646
All other metal products	769 905	502 401	557 273	691 280	461 245	495 269
Domestic appliances	42 592	35 291	34 733	47 184	34 880	38 415
Electric motors, generators and transformers	490 378	504 405	462 282	482 126	502 495	453 623
Insulated wire and cables	182 847	281 350	276 891	178 784	278 471	269 030
Accumulators, primary cells and primary batteries	13 787	12 288	12 703	13 404	12 451	12 289
Television, radio and communication apparatus	845 303*	1 065 658	1 109 539	801 198	1 020 396	1 048 840
Motor vehicles	1 858 197	2 272 050	2 164 940	1 953 955	2 312 660	2 270 690
Parts and accessories for motor vehicles	241 303	312 881	280 585	263 711	312 315	308 079
Furniture	281 806	446 519	420 458	209 170	337 943	312 508

* Revised

Additional information

Explanatory notes

Introduction 1 Statistics South Africa (Stats SA) conducts a monthly sample survey of the manufacturing industry covering private manufacturing establishments (branches), public corporations and government establishments. This statistical release contains detailed information regarding indices of the physical volume of manufacturing production, the total value of sales of manufactured products and unfilled orders, according to manufacturing divisions and major groups on a monthly basis.

2 In accordance to international practice, the indices have to be rebased every five years to a new base year. The indices in this statistical release have been calculated on the basis of 1995=100 since November 1997. Both actual and seasonally adjusted figures are presented.

3 In order to improve timeliness, some information for the current month October have been estimated due to late response. These estimates will be revised in the future statistical release(s) as soon as more up-to-date information is available.

Scope of the survey 4 This survey covers manufacturing establishments conducting activities regarding -

- the manufacturing, processing, making or packing of products;
- the slaughtering of animals, including poultry; and
- installation, assembly, completion, repair and related work.

Classification 5 The 1993 edition of the Standard Industrial Classification of all Economic

Activities (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 International Standard Industrial Classification of all Economic Activities (ISIC) with suitable adaptations for local conditions. Statistics in this publication are presented at SIC division, major group and subgroup level. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment (branch).

Statistical unit 6 The basic statistical unit for the collection of information is the manufacturing establishment. An establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (cf. paragraph 6).

Survey methodology and 7 The calculation of the monthly production indices is based on the value of products and design 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 13 In order to calculate a production index for the total manufacturing industry, the production total manufacturing industry indices for the major groups are combined as follows:

A weight is calculated for every major group according to the value added of the relevant major group compared with the value added to the total manufacturing industry based on the 1991, 1993 and 1996 Censuses of Manufacturing. Weights between census years are fixed and are based on the results of the most recent Census of Manufacturing. The production indices of all the major groups are multiplied by the applicable weights and aggregated to reflect the total physical

volume of manufacturing production index.

Seasonal adjustment 14 Seasonally adjusted estimates of all items are generated each month, using the X-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.

Trend cycle 15 The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.

Reliability of estimates 16 Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.

Historical data 17 More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups and the value of sales for the period January 1990 to September 1999 were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.

Related publications 18 Users may also wish to refer to the following publications which are available from Stats SA -

- P3041.3 -Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999.
- P3041.4 - Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.
- Bulletin of Statistics.
- SA Statistics.

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:

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 Stats SA Statistics South Africa

TBVC states Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states

SIC Standard Industrial Classification of all Economic Activities

ISIC International Standard Classification of all Economic Activities

SNA System of National Accounts

PPI Production Price Index

GDP Gross Domestic Product

1/ Preliminary figures

* Revised figures

Technical notes

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

Table B - Response rates for October 2000

Manufacturing major divisions	% response
Food and food products	72,9
Beverages	87,5
Textile	92,9
Total wearing apparel	85,0
Tanning and dressing of leather	57,6
Footwear	78,3
Wood and products of wood	94,5
Paper and paper products	77,4
Total publishing and printing	67,9
Coke and refined petroleum products	67,7
Basic chemicals	91,1
Other chemical products	83,2
Rubber products	87,0
Plastic products	71,1

Glass and glass products	75,0
Other non-metallic mineral products	78,1
Basic iron and steel products	78,1
Basic precious and non-ferrous metal products	64,0
Fabricated metal products	80,7
Total machinery and equipment	72,7
Electrical machinery, apparatus	64,4
Radio, television and communication apparatus	78,3
Professional equipment	75,0
Motor vehicles; trailers; parts and accessories	85,6
Other transport equipment	74,3
Furniture	83,8
Other manufacturing industries	67,9
Total	78,5

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 The index of physical volume of manufacturing production or a production index is a

of manufacturing production statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 1995. The production in the base period is set at 100.

Industry An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the System of National Accounts (SNA) in the same way as in the Standard Industrial Classification of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).

Intercensal period Intercensal period is the period between January of the one census year and January of the next census year.

Intermediate consumption Intermediate consumption includes -

- purchases and transfers-in of materials;
- payments to other establishments for work done;
- other direct factory costs;
- rent and leasing paid;
- head office charges;
- royalties, copyright, trade names and patent rights paid;
- advertising;
- insurance premiums;
- services; and
- secretarial and administrative fees.

Output Output is the aggregate value of goods manufactured and work done.

Output includes -

- sales and transfers-out of own manufactures, factory waste and stocks of factored goods;

- repairs;
 - installation, erection and assembly;
 - sundry trading revenue;
 - sales of factored goods minus purchases of factored goods;
 - rent and leasing received;
 - royalties received;
 - difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods;
-
- head office charges; and
 - other revenue.

Output excludes excise and customs duty paid.

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

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

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

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