

# Manufacturing: production and sales

## Statistical release

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Dr R Hirschowitz  
Acting head: Statistics South Africa

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<b>Actual estimates</b>	<b>September 2000</b>	<b>% change between September 1999 and September 2000</b>	<b>% change between July 1999 to September 1999 and July 2000 to September 2000</b>	<b>% change between January 1999 to September 1999 and January 2000 to September 2000</b>
Physical volume of manufacturing production index (1995=100)	111,1	+3,8	+3,7	+4,5
Total value of sales of manufactured products (R million)	39 639,9	+10,5	+11,4	+12,3

<b>Seasonally adjusted estimates</b>	<b>September 2000</b>	<b>% change between August 2000 and September 2000</b>	<b>% change between April 2000 to June 2000 and July 2000 to</b>

			September 2000
Physical volume of manufacturing production index (1995=100)	106,2	-0,2	+1,4
Total value of sales of manufactured products (R million)	38 066,5	-0,9	+2,5

## Key findings as at the end of September 2000

### MANUFACTURING PRODUCTION INCREASES

*Manufacturing production for the third quarter of 2000 reflected an increase of 1,4% after seasonal adjustment compared with the second quarter of 2000. Higher manufacturing production was reported by 15 of the 27 manufacturing divisions.*

The major contributors to the increase of 1,4% after seasonal adjustment in the total manufacturing production were the motor vehicle division (+1,0 percentage point), followed by fabricated metal products (+0,5 of a percentage point), machinery and equipment (+0,5 of a percentage point), food and food products (+0,2 of a percentage point), plastic products (+0,2 of a percentage point) and 'other' manufacturing (+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 third quarter of 2000 reflected an increase of 2,5% (R2 728 million) after seasonal adjustment compared with the second quarter of 2000. Furthermore, the actual value of sales of manufactured products for the third quarter of 2000 reflected an increase of 11,4% (+R11 768 million) compared with the third quarter of 1999. Higher manufacturing sales were reported by 21 of the 27 manufacturing divisions during this period.*

The increase of 2,5% after seasonal adjustment in the total value of sales of manufactured products was mainly due to large increases reported by the motor vehicle (+12,2% or +R1 500 million), coke and refined petroleum products (+8,0% or +R612 million), machinery and equipment (+6,3% or +R296 million), basic chemicals (+5,5% or +R290 million) and fabricated metal products (+5,0% or +R301 million) divisions during this period.

The major contributors to the increase of 11,4% in the actual value of sales of manufacturing products were the coke and refined petroleum products (+2,8 percentage points or +R2 843 million), motor vehicle (+2,3 percentage points or +R2 379 million), and basic iron and steel products (+1,4 percentage points or +R1 470 million), divisions (cf. table B).

## Notes

Forthcoming issues Issue Expected release date

October 2000 12 December 2000

November 2000 9 January 2001

December 2000 6 February 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 A - Contribution of the production by the different manufacturing divisions to total manufacturing production (Base 1995=100)

Manufacturing divisions	Percentage contribution to the total manufacturing production	Average seasonally adjusted production index for the three	Quarterly percentage change (July 2000 to September 2000 compared	Contribution (percentage points) to the seasonally adjusted quarterly

	in the base year 1995 (Weights)	months July 2000 to September 2000	with the preceding three months)	percentage change in total manu- facturing production 1/
Food and food products	10,7	99,9	+1,5	+0,2
Beverages	4,6	95,3	-3,5	-0,2
Total textiles	2,9	93,9	-1,5	-0,1
Total Wearing apparel	3,6	80,1	-5,4	-0,2
Tanning and dressing of leather	0,4	122,9	-4,6	-0,0
Footwear	0,9	64,0	-5,8	-0,1
Wood and products of wood	1,9	118,6	-1,1	-0,0
Paper and paper products	5,3	107,1	+2,7	+0,1
Total publishing and printing	4,1	87,5	-5,0	-0,2
Coke and refined petroleum products	4,2	109,3	+3,1	+0,1
Basic chemicals	4,5	135,0	+1,7	+0,1
Other chemical products	6,2	101,0	-1,6	-0,1
Rubber products	1,4	94,3	-2,7	-0,0
Plastic products	3,1	92,3	+7,6	+0,2
Glass and glass products	1,0	96,0	+14,3	+0,1
Other non-metallic mineral products	3,5	88,3	+0,2	+0,0
Basic iron and steel products	7,6	107,4	-6,1	-0,5
Basic precious and non-ferrous metal products	3,2	157,0	-7,1	-0,2
Fabricated metal products	7,0	103,9	+6,8	+0,5
Total machinery and equipment	5,8	100,9	+9,0	+0,5
Electrical machinery, apparatus	3,4	97,7	-3,9	-0,1
Radio, television and communication apparatus	1,0	127,3	+4,3	+0,0
Professional equipment	0,5	82,9	+8,2	+0,0
Motor vehicles; trailers; parts and accessories	8,0	127,9	+12,7	+1,0
Other transport equipment	1,0	113,9	+5,0	+0,1
Furniture	1,6	94,9	+1,5	+0,0
Other manufacturing divisions	2,6	112,2	+5,9	+0,2
Total	100,0	105,6	+1,4	+1,4

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

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

Manufacturing	Percentage contribution	Percentage	Contribution (percentage)	Difference in total
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divisions	to total value of sales of manufactured products during July 1999 to September 1999	change between July 1999 to September 1999 and July 2000 to September 2000	points) to the percentage change in the total value of sales of manufactured products	manufactu- ring sales between July 1999 to September 1999 and July 2000 to September 2000 R'000
Food and food products	13,8	+3,0	+0,4	425 063
Beverages	4,7	+0,5	+0,0	22 334
Total textiles	2,6	-0,6	-0,0	-16 875
Total Wearing apparel	2,8	-6,6	-0,2	-194 836
Tanning and dressing of leather	0,6	-0,6	-0,0	-3 873
Footwear	0,6	-7,6	-0,0	-49 826
Wood and products of wood	2,1	+11,7	+0,2	253 477
Paper and paper products	5,0	+17,9	+0,9	922 631
Total publishing and printing	2,9	+3,0	+0,1	89 054
Coke and refined petroleum products	5,5	+50,4	+2,8	2 842 622
Basic chemicals	5,0	+8,5	+0,4	436 504
Other chemical products	6,3	+4,0	+0,3	262 960
Rubber products	1,1	+8,3	+0,1	91 367
Plastic products	2,4	+13,2	+0,3	331 522
Glass and glass products	0,5	+10,4	+0,1	57 501
Other non-metallic mineral products	2,4	+10,3	+0,3	253 327
Basic iron and steel products	6,4	+22,3	+1,4	1 470 049
Basic precious and non-ferrous metal products	3,4	+15,4	+0,5	534 196
Fabricated metal products	6,0	+5,7	+0,3	347 889
Total machinery and equipment	4,6	+10,8	+0,5	515 167
Electrical machinery, apparatus Radio, television and communication apparatus	1,2	+10,7	+0,1	128 146
Professional equipment	0,3	+8,4	+0,0	28 292
Motor vehicles; trailers; parts and accessories	11,3	+20,5	+2,3	2 378 539
Other transport equipment	0,8	-11,1	-0,1	-86 568
Furniture	1,7	-6,2	-0,1	-106 908
Other manufacturing divisions	3,1	+15,6	+0,5	503 313
Total	100,0	+11,4	+11,4	11 767 685

1/ The contribution (percentage points) is calculated by multiplying the percentage change of each manufacturing division with the percentage contribution of the corresponding division during July 1999 to September 1999.

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	107,0*
A	94,0	106,0	107,8	105,8	100,0	103,5	108,4
S	100,9	106,7	105,2	108,3	106,8	107,0	111,1 1/
O	104,2	112,5	115,8	119,1	111,8	112,9	
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	1994	1995	1996	1997	1998	1999	2000
	91,7	100,0	101,5	104,3	101,1	101,4	

Seasonally adjusted indices							
J	87,5	96,5	99,2	105,7	104,9	100,8	102,7
F	88,3	99,3	98,7	105,1	102,8	99,7	104,8
M	91,1	100,0	99,5	100,3	101,1	100,0	107,6
A	88,7	97,3	102,2	111,2	101,4	99,6	98,2
M	85,4	101,8	103,9	105,4	100,1	100,3	105,6
J	91,3	101,2	101,5	103,3	102,8	98,9	108,5
J	91,6	99,9	102,4	105,6	101,7	101,7	104,2
A	90,9	102,6	104,6	103,0	97,6	101,4	106,4
S	95,8	101,5	100,2	103,2	102,0	102,4	106,2
O	94,0	101,1	103,1	105,8	99,7	100,6	
N	97,2	99,8	103,1	101,1	99,6	105,1	
D	98,1	98,3	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 1999	Actual indices			Seasonally adjusted indices		
			September 1999	August 2000	1/ September 2000	September 1999	August 2000	September 2000
Food and food products	10,7	99,2	105,7	107,7	106,3	101,5	100,3	101,9
Meat, fish, fruit etc.	2,8	112,4	105,7	104,1	110,7	111,4	101,0	116,8
Dairy products	1,4	92,8	96,4	94,2	93,4	95,0	92,8	91,9
Grain mill products	2,1	93,9	92,0	92,9	91,4	97,8	93,8	96,9
Other food products	4,4	95,3	115,2	121,1	114,6	98,8	105,3	97,7
Beverages	4,6	100,8	98,6	82,7	98,5	99,5	89,0	99,2
Total textiles	2,9	91,3	100,9	96,8	104,1	94,0	92,2	96,6
Textiles	1,7	83,8	95,2	88,8	91,0	88,7	84,2	84,5
Other textile products	1,2	101,9	109,0	108,2	122,6	101,6	103,5	113,7
Total wearing apparel	3,6	88,3	97,6	85,3	89,1	85,7	81,8	78,2
Knitted, crocheted articles	0,6	82,5	90,9	69,4	73,2	88,4	67,8	70,8
Wearing apparel	3,0	89,5	98,9	88,5	92,3	85,2	84,6	79,6
Tanning and dressing of leather	0,4	122,9	115,7	124,6	114,8	123,3	119,5	122,5
Footwear	0,9	69,2	77,1	70,8	71,6	66,4	65,3	62,0
Wood and products of wood	1,9	114,1	117,2	125,2	125,1	111,0	120,1	119,1
Sawmilling and planing of wood	0,8	104,2	115,1	114,3	109,6	104,8	105,6	100,1
Products of wood	1,2	120,6	118,6	132,4	135,2	115,0	129,6	131,5
Paper and paper products	5,3	98,2	101,6	106,1	115,7	96,1	104,1	109,2
Total publishing and printing	4,1	93,1	93,9	92,0	89,9	91,8	89,6	87,9
Publishing	1,5	99,6	103,4	93,6	95,7	101,0	93,0	93,6
Printing, recorded media	2,6	89,5	88,6	91,1	86,7	86,6	87,6	84,8
Coke and refined petroleum products	4,2	106,4	101,6	107,8	103,2	108,7	109,6	110,5
Basic chemicals	4,5	126,9	131,5	143,2	123,0	133,1	144,2	124,1
Other chemical products	6,2	103,3	109,5	101,8	107,4	101,2	102,4	99,5
Rubber products	1,4	92,8	99,3	97,0	107,5	90,2	94,6	97,4
Plastic products	3,1	86,5	89,1	95,2	98,2	84,8	93,4	93,5
Glass and glass products	1,0	85,2	92,0	106,5	91,4	89,3	97,9	88,9
Other non-metallic mineral products	3,5	85,0	90,0	94,6	94,3	85,0	90,1	89,2
Basic iron and steel products	7,6	96,9	99,4	104,1	100,3	99,3	104,9	100,8
Basic precious and non-ferrous metal products	3,2	153,3	159,3	171,3	179,7	153,3	167,8	172,2
Fabricated metal products	7,0	99,1	115,9	113,9	104,7	109,1	112,4	98,4
Structural metal products	2,4	95,9	103,3	92,6	84,9	98,7	92,8	80,7
Other fabricated metal product	4,6	100,8	122,4	124,8	114,9	114,5	122,5	107,4
Total machinery and equipment	5,8	97,5	97,2	98,4	119,4	87,0	96,1	106,8
General purpose machinery	2,5	111,5	112,0	109,9	140,7	99,2	105,7	124,4
Special purpose machinery	2,9	84,4	81,0	85,5	96,9	73,7	84,9	88,4
Household appliances	0,4	105,3	122,9	120,0	149,2	108,0	117,2	130,1
Electrical machinery, apparatus	3,4	96,5	98,3	96,5	110,7	91,8	95,5	103,6
Radio, television and communication apparatus	1,0	126,9	141,4	134,2	148,4	123,7	129,7	130,6
Professional equipment	0,5	77,9	80,9	84,4	82,5	80,9	81,2	82,4
Motor vehicles; trailers; parts and accessories	8,0	102,5	113,1	126,5	138,0	110,1	125,7	133,9

Motor vehicles	4,5	97,0	110,1	120,1	130,6	106,8	119,7	126,3
Bodies for motor vehicles; trailers and semi-trailers	0,5	64,3	75,2	66,9	55,2	75,4	61,2	55,7
Parts and accessories	3,0	117,7	124,5	147,0	164,2	121,5	146,4	159,7
Other transport equipment	1,0	113,1	104,1	113,1	112,9	108,9	111,5	118,0
Furniture	1,6	102,6	127,1	102,7	106,5	104,0	99,2	87,2
Other manufacturing industries	2,6	107,7	124,4	126,9	122,3	116,1	117,9	112,6
Total	100,0	101,4	107,0	108,4	111,1	102,4	106,4	106,2

\* 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	28 476 516
F	19 815 926	24 414 317	26 328 500	29 866 793	29 901 544	30 607 558	35 104 913
M	22 056 191	26 712 878	28 188 286	29 866 272	32 190 538	32 788 344	37 901 836
A	19 132 660	22 897 368	26 231 967	30 438 604	29 758 879	30 508 382	32 689 675
M	19 723 817	25 806 431	28 293 052	30 626 091	30 352 835	32 737 449	37 122 784
J	22 055 323	26 204 689	28 261 416	30 575 542	31 723 893	33 126 289	38 702 638
J	22 251 097	25 613 126	28 378 392	31 169 707	31 732 667	33 429 319	36 271 041
A	21 957 670	27 064 919	29 568 761	31 400 042	30 810 619	33 740 922	38 911 882
S	23 954 300	27 737 968	29 549 724	31 344 644	32 896 327	35 884 855	39 639 858 1/
O	25 209 944	29 294 559	33 070 022	35 902 602	34 970 472	37 425 965	
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	33 019 974	

Year	259 366 761	308 790 007	339 096 803	368 283 280	373 568 657	398 564 268	
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Seasonally adjusted values							
J	19 820 601	23 556 952	26 491 262	30 644 322	31 265 131	31 809 182	34 212 181
F	20 115 488	24 778 332	26 806 929	30 504 871	30 608 769	31 421 347	36 001 107
M	20 742 519	25 282 086	26 861 651	28 685 807	30 969 058	31 596 775	36 433 518
A	20 321 892	24 272 607	27 708 182	32 059 040	31 356 403	32 148 250	34 511 844
M	20 155 233	26 143 699	28 452 506	30 744 196	30 436 635	32 887 854	37 280 470
J	21 897 194	25 971 260	28 043 928	30 265 955	31 357 231	32 782 509	38 151 710
J	22 181 950	25 542 713	28 350 894	31 107 888	31 665 698	33 332 842	36 179 209
A	21 214 884	26 209 577	28 794 345	30 721 418	30 285 284	33 249 217	38 426 219

S	22 759 718	26 504 536	28 304 854	30 087 252	31 573 415	34 525 002	38 066 468
O	22 677 721	26 202 416	29 541 456	32 053 894	31 179 491	33 423 972	
N	23 534 667	26 858 592	29 728 579	30 297 925	30 847 743	35 061 558	
D	23 382 302	26 813 885	29 361 920	31 030 274	31 772 414	36 502 275	

\* 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		
		September	August	September1/	September	August	September
		1999	2000		1999	2000	
Food and food products	57 155 867	4 704 094	5 092 731	4 801 336	4 798 963	5 055 100	4 893 690
Meat, fish, fruit etc.	17 159 161	1 352 526	1 411 259	1 434 254	1 399 365	1 418 732	1 482 940
Dairy products	7 164 653	645 057	622 209	637 886	633 122	609 983	626 083
Grain mill products	14 871 882	1 216 260	1 272 053	1 199 838	1 286 675	1 262 340	1 267 715
Other food products	17 960 171	1 490 251	1 787 210	1 529 358	1 479 801	1 764 045	1 516 952
Beverages	20 605 141	1 732 357	1 574 984	1 780 534	1 742 453	1 680 847	1 799 963
Total textiles	9 770 275	892 660	870 113	916 096	833 059	847 354	853 600
Textiles	6 304 565	582 246	560 614	565 371	543 180	538 129	527 448
Other textile products	3 465 710	310 414	309 499	350 725	289 879	309 225	326 152
Total wearing apparel	10 994 539	1 068 026	911 935	973 031	940 455	876 180	854 224
Knitted, crocheted articles	1 858 591	179 364	139 162	142 083	174 200	137 566	137 782
Wearing apparel	9 135 948	888 662	772 773	830 948	766 255	738 614	716 442
Tanning and dressing of leather	2 577 530	217 596	200 923	227 052	214 096	200 137	222 374
Footwear	2 379 127	229 903	202 812	212 375	191 882	187 478	177 750
Wood and products of wood	8 386 436	730 724	774 407	843 615	679 623	754 864	783 927
Sawmilling and planing of wood	2 380 674	215 533	227 222	234 332	193 817	215 675	211 002
Products of wood	6 005 762	515 191	547 185	609 283	485 806	539 189	572 925
Paper and paper products	20 400 594	1 832 749	1 922 711	2 227 385	1 638 098	1 953 106	1 972 210
Total publishing and printing	11 664 938	989 424	1 036 717	1 024 651	959 029	1 020 895	994 114
Publishing	4 471 082	397 699	386 135	392 314	383 462	378 573	378 545
Printing, recorded media	7 193 856	591 725	650 582	632 337	575 567	642 322	615 569
Coke and refined petroleum products	20 999 687	2 018 707	3 140 767	2 729 677	1 976 424	2 881 983	2 671 669
Basic chemicals	19 872 911	1 835 250	1 933 851	1 844 753	1 761 596	1 962 063	1 772 573
Other chemical products	25 490 045	2 281 938	2 325 470	2 365 447	2 138 464	2 333 293	2 204 770
Rubber products	4 167 229	378 681	407 978	423 814	351 340	378 905	392 365
Plastic products	9 723 276	880 312	949 012	973 640	833 773	936 534	921 818
Glass and glass products	2 140 820	203 976	205 119	205 517	184 364	199 035	184 944
Other non-metallic mineral products	9 255 562	853 985	960 086	911 004	778 441	909 398	832 913
Basic iron and steel products	26 056 845	2 330 267	2 597 273	2 884 273	2 282 919	2 628 832	2 824 234
Basic precious and non-ferrous metal products	13 107 160	1 110 634	1 323 879	1 511 619	1 049 655	1 278 748	1 423 575
Fabricated metal products	23 450 896	2 319 369	2 251 485	2 142 629	2 230 693	2 227 988	2 035 977
Structural metal products	8 375 921	891 000	670 657	617 700	908 161	695 658	618 460
Other fabricated metal product	15 074 975	1 428 369	1 580 828	1 524 929	1 322 532	1 532 330	1 417 517
Total machinery and equipment	18 482 182	1 742 272	1 724 996	1 907 471	1 546 853	1 666 613	1 685 180
General purpose machinery	8 715 989	873 005	829 482	928 941	753 244	761 239	793 447
Special purpose machinery	7 839 996	691 047	708 625	750 586	632 334	721 543	686 543

Household appliances	1 926 197	178 220	186 889	227 944	161 275	183 831	205 190
Electrical machinery, apparatus	11 835 715	1 057 361	1 123 797	1 187 245	988 042	1 087 616	1 107 939
Radio, television and communication apparatus	4 441 396	379 631	491 420	464 446	358 434	442 898	439 853
Professional equipment	1 299 945	120 828	119 854	127 457	114 495	119 436	120 077
Motor vehicles; trailers; parts and accessories	42 719 836	4 015 678	4 750 756	4 910 253	4 002 274	4 824 356	4 890 724
Motor vehicles	30 465 944	2 858 580	3 299 436	3 470 353	2 875 166	3 391 960	3 490 907
Bodies for motor vehicles; trailers and semi-trailers	1 529 083	146 910	160 984	143 462	146 027	153 756	143 504
Parts and accessories	10 724 809	1 010 188	1 290 336	1 296 438	981 081	1 278 640	1 256 313
Other transport equipment	2 789 057	221 674	194 329	219 205	236 024	153 036	233 629
Furniture	6 356 278	590 757	544 498	564 500	531 204	524 691	507 253
Other manufacturing industries	12 440 981	1 146 002	1 279 979	1 260 833	1 162 349	1 294 833	1 265 123
Total	398 564 268	35 884 855	38 911 882	39 639 858	34 525 002	38 426 219	38 066 468

\* Revised  
1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	September	August	September 1/	September	August	September
	1999	2000		1999	2000	
Spinning, weaving and finishing of textiles	226 128	176 611	178 474	218 930	179 714	172 316
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	25 894	25 490	28 749	25 996	25 261	28 763
Other textile articles	66 238	59 673	87 611	62 223	63 148	82 648
Knitted and crocheted fabrics and articles	154 599	118 489	131 146	147 713	121 369	125 805
Wearing apparel	905 249	692 346	665 464	844 499	666 138	623 159
Sawmilling and preserving of timber	21 169	27 523	26 211	21 099	27 288	26 181
Veneer sheets, plywood, laminboard, etc.	21 101	24 506	23 446	21 292	24 831	23 838
Builders' carpentry and joinery	53 498	43 708	45 019	53 263	41 941	45 252
Pulp, paper and paperboard	265 563	580 720	467 030	258 937	501 685	460 918
Corrugated paper and paper-board and containers	402 734	377 566	387 197	401 684	403 109	387 386
Paints, varnishes and coatings	44 932	14 638	16 402	36 003	13 800	12 907
Basic iron and steel products	2 884 376	2 941 075	3 070 975	2 861 533	3 005 652	3 043 705
Steel pipe and tube mills	148 404	199 476	176 013	145 397	211 324	171 343
Basic precious and non-ferrous metal products	1 033 212	1 188 147	1 155 101	1 031 405	1 188 313	1 164 437
Metal structures, parts	1 257 035	1 292 062	1 208 816	1 285 277	1 296 380	1 245 140
Cutlery, hand tools and general hardware	34 620	25 813	26 997	33 280	26 468	25 692
Metal containers, e.g. cans and tins	60 632	75 436	80 966	62 624	83 367	83 506
Cables, wire products, springs	67 953	57 104	60 460	66 752	56 727	59 546
Metal fasteners	48 553	56 404	55 596	51 742	60 731	59 093

All other metal products	659 772	508 579	501 932	579 678	454 369	439 432
Domestic appliances	47 163	33 840	35 291	46 048	32 439	34 220
Electric motors, generators and transformers	461 353	515 629	501 373	469 050	517 313	508 560
Insulated wire and cables	168 282	255 400	271 078	168 497	261 692	272 115
Accumulators, primary cells and primary batteries	13 027	11 780	12 288	13 104	11 907	12 447
Television, radio and communication apparatus	768 766	1 156 813	1 067 802	732 859	1 152 388	1 012 018
Motor vehicles	1 791 513	2 023 281	2 284 795	1 813 644	2 104 840	2 318 744
Parts and accessories for motor vehicles	253 230	370 335	303 734	254 900	337 640	306 512
Furniture	282 743	254 088	432 779	210 629	240 601	323 540

\* 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 September 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](http://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 September 2000, by manufacturing major divisions, in table B.

**Table B - Response rates for September 2000**

<b>Manufacturing major divisions</b>	<b>% response</b>
Food and food products	77,1
Beverages	83,3
Textile	94,8
Total wearing apparel	83,7
Tanning and dressing of leather	63,6
Footwear	82,6
Wood and products of wood	89,5
Paper and paper products	77,4
Total publishing and printing	64,4
Coke and refined petroleum products	72,7
Basic chemicals	89,9
Other chemical products	83,2

Rubber products	82,6
Plastic products	66,0
Glass and glass products	83,3
Other non-metallic mineral products	79,5
Basic iron and steel products	76,6
Basic precious and non-ferrous metal products	72,0
Fabricated metal products	83,5
Total machinery and equipment	78,1
Electrical machinery, apparatus	68,5
Radio, television and communication apparatus	78,3
Professional equipment	60,7
Motor vehicles; trailers; parts and accessories	83,3
Other transport equipment	80,0
Furniture	80,3
Other manufacturing industries	70,4
<b>Total</b>	<b>79,3</b>

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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e-mail: [Dawnvd@statssa.pwv.gov.za](mailto:Dawnvd@statssa.pwv.gov.za)

[Teresam@statssa.pwv.gov.za](mailto:Teresam@statssa.pwv.gov.za)

Postal address: Private Bag X44, Pretoria, 0001

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