

# Manufacturing: production and sales P3041.2

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<b>Actual estimates</b>	<b>March 2001</b>	<b>% change between March 2000 and March 2001</b>	<b>% change between January 2000 to March 2000 and January 2001 to March 2001</b>
Physical volume of manufacturing production index (1995=100)	111,0	+1,8	+3,5
Total value of sales of manufactured products (R million)	42 969,5	+13,0	+14,3

<b>Seasonally adjusted estimates</b>	<b>March 2001</b>	<b>% change between February 2001 and March 2001</b>	<b>% change between October 2000 to December 2000 and January 2001 to March 2001</b>
Physical volume of manufacturing production index (1995=100)	109,5	+1,7	-0,1
Total value of sales of manufactured products (R million)	41 432,4	+1,9	+4,3

#### **Key findings as at the end of March 2001**

#### **MANUFACTURING PRODUCTION DECREASES SLIGHTLY**

*Manufacturing production for the first quarter of 2001 reflected a slight decrease of 0,1% after seasonal adjustment compared with the fourth quarter of 2000. Lower production was reported by 14 of the 27 manufacturing divisions.*

The major contributors to the decrease of 0,1% after seasonal adjustment in the total manufacturing production was the basic iron and steel products division (-0,4 of a percentage point), followed by wearing apparel (-0,3 of a percentage point), other non-metallic mineral products (-0,3 of a percentage point), basic chemicals (-0,2 of a percentage point) and basic precious and non-ferrous metal products (-0,2 of a percentage point) divisions. However, these decreases were counteracted by increases in the food and food products (+0,6 of a percentage point), beverage (+0,2 of a percentage point), textile (+0,2 of a percentage point), other chemical products (+0,2 of a percentage point) and motor vehicle (+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 January 2001 to March 2001	Quarterly percentage change (January 2001 to March 2001 compared with the preceding three months)	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and food products	10,7	105,4	+5,5	+0,6
Beverages	4,6	91,9	+3,8	+0,2
Total textiles	2,9	95,6	+6,9	+0,2
Total wearing apparel	3,6	76,5	-4,9	-0,3
Tanning and dressing of leather	0,4	137,6	+9,8	+0,0
Footwear	0,9	59,5	-4,2	-0,0
Wood and products of wood	1,9	120,6	+2,5	+0,1
Paper and paper products	5,3	107,9	+0,7	+0,0
Total publishing and printing	4,1	85,4	-1,6	-0,1
Coke and refined petroleum products	4,2	106,8	-0,8	-0,1
Basic chemicals	4,5	139,2	-3,6	-0,2
Other chemical products	6,2	105,0	+3,6	+0,2
Rubber products	1,4	108,7	+3,7	+0,1
Plastic products	3,1	92,4	-0,1	-0,0
Glass and glass products	1,0	96,2	+5,9	+0,1
Other non-metallic mineral products	3,5	86,6	-6,5	-0,3
Basic iron and steel products	7,6	111,2	-5,2	-0,4
Basic precious and non-ferrous metal products	3,2	162,0	-4,9	-0,2
Fabricated metal products	7,0	106,3	-1,3	-0,1
Total machinery and equipment	5,8	110,6	+1,6	+0,1
Electrical machinery, apparatus	3,4	103,8	-3,7	-0,1
Radio, television and				

communication apparatus	1,0	117,6	+5,9	+0,1
Professional equipment	0,5	90,1	+1,6	+0,0
Motor vehicles; trailers; parts and accessories	8,0	140,9	+2,3	+0,2
Other transport equipment	1,0	117,5	-3,7	-0,0
Furniture	1,6	97,5	-8,1	-0,1
Other manufacturing divisions	2,6	109,7	-2,0	-0,1
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Total	100,0	108,8	-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.

### SALES OF MANUFACTURED PRODUCTS INCREASE

*The total value of sales of manufactured products at current prices for the first quarter of 2001 reflected an increase of 4,3% (R5 011 million) after seasonal adjustment compared with the fourth quarter of 2000. Furthermore, the actual value of sales of manufactured products at current prices for the first quarter of 2001 reflected an increase of 14,3% (+R14 521 million) compared with the first quarter of 2000. Higher manufacturing sales were reported by 20 of the 27 manufacturing divisions during this period.*

The increase of 4,3% after seasonal adjustment in the total value of sales of manufactured products at current prices for the first quarter of 2001 compared with the fourth quarter of 2000 was mainly due to large increases reported by the food and food products (+10,6% or R1 611 million), basic chemicals (+8,4% or R499 million), other manufacturing industries (+8,2% or R312 million), coke and refined petroleum products (+6,4% or R593 million) and motor vehicle (+6,1% or R901 million) divisions.

The major contributors to the increase of 14,3% in the actual value of sales of manufactured products at current prices for the first quarter of 2001 compared with the first quarter of 2000 were the motor vehicle (+3,1 percentage points or +R3 126 million), coke and refined petroleum products (+3,0 percentage points or +R3 045 million), food and food products (+2,0 percentage points or R2 084 million) and basic chemicals (+1,1 percentage points or +R1 126 million) divisions.

## Notes

Forthcoming issues	Issue	Expected release date

	April 2001	12 June 2001
	May 2001	10 July 2001
	June 2001	7 August 2001
	July 2001	11 September 2001
	August 2001	9 October 2001
	September 2001	6 November 2001
	October 2001	11 December 2001
	November 2001	8 January 2002
	December 2001	12 February 2002
<b>Purpose of the survey</b>	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	1995	1996	1997	1998	1999	2000	2001
Actual indices							
J	80,6	83,6	89,8	89,6	86,7	88,8	94,7*
F	97,6	96,7	103,1	101,1	98,0	103,2	105,7
M	104,2	102,6	102,5	102,7	101,4	109,0	111,0 1/
A	91,0	96,4	105,5	96,3	94,8	93,3	
M	101,8	104,1	106,2	101,1	101,1	106,5	
J	102,4	102,9	104,9	104,5	100,5	110,4	
J	101,7	104,7	108,2	104,4	104,3	107,1	
A	106,0	107,8	105,8	99,9	103,5	108,5	
S	106,7	105,2	108,2	106,8	107,0	112,4	
O	112,5	115,8	119,1	111,7	112,9	117,0	

N	110,7	114,4	111,7	109,8	115,5	120,7	
D	84,8	83,7	86,9	85,3	90,5	94,7	
Year	100,0	101,5	104,3	101,1	101,4	106,0	
Seasonally adjusted indices							
J	96,5	99,1	105,5	104,8	100,6	102,3	109,2
F	99,3	98,6	105,1	103,0	99,8	105,1	107,7
M	100,0	99,5	100,3	101,1	99,8	107,4	109,5
A	97,2	102,1	111,1	101,2	99,6	98,2	
M	101,7	103,9	105,4	100,1	100,4	105,8	
J	101,1	101,5	103,3	102,9	99,0	108,6	
J	99,9	102,5	105,6	101,7	101,7	104,3	
A	102,6	104,5	103,0	97,6	101,5	106,5	
S	101,5	100,2	103,1	101,9	102,3	107,4	
O	101,3	103,3	106,3	100,2	101,5	105,6	
N	99,8	103,0	100,9	99,3	104,6	109,4	
D	98,2	98,8	102,3	100,3	106,8	111,7	

\* 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			
			2000	March	February	March 1/	March	February	March
				2000	2001		2000	2001	
Food and food products	10,7	98,9	90,3	94,3	98,3	98,5	105,4	108,7	
Meat, fish, fruit etc.	2,8	111,7	117,4	119,8	118,4	111,4	110,9	113,0	
Dairy products	1,4	89,4	91,8	88,6	96,1	89,4	93,7	93,8	
Grain mill products	2,1	90,9	91,2	87,7	97,9	90,8	94,0	97,6	
Other food products	4,4	97,3	72,1	82,9	86,3	96,7	110,9	115,8	
Beverages	4,6	92,6	101,0	87,3	101,8	94,5	95,0	94,9	
Total textiles	2,9	93,5	108,6	96,5	103,9	99,8	95,0	95,5	
Textiles	1,7	84,6	102,2	84,6	95,1	93,1	81,7	86,3	
Other textile products	1,2	106,2	117,7	113,4	116,4	109,3	113,8	108,7	
Total wearing apparel	3,6	82,7	99,5	73,4	86,6	88,0	74,9	76,4	
Knitted, crocheted articles	0,6	73,6	88,9	70,3	83,3	78,7	69,1	73,5	
Wearing apparel	3,0	84,5	101,6	74,0	87,3	89,9	76,1	76,9	
Tanning and dressing of leather	0,4	125,2	124,4	126,0	141,6	120,6	127,1	137,4	
Footwear	0,9	65,6	73,1	55,2	60,2	68,5	53,4	56,4	
Wood and products of wood	1,9	119,3	126,0	121,7	125,3	118,9	121,1	118,1	
Sawmilling and planing of wood	0,8	104,8	109,8	109,6	113,7	104,3	107,2	107,9	
Products of wood	1,2	128,8	136,7	129,6	132,9	128,4	130,3	124,8	
Paper and paper products	5,3	105,3	102,3	96,4	108,5	100,7	105,5	106,4	

Total publishing and printing	4,1	90,0	94,1	81,3	85,0	91,6	85,0	82,6
Publishing	1,5	97,8	101,5	90,1	90,1	100,6	93,5	89,4
Printing, recorded media	2,6	85,6	90,0	76,3	82,1	86,6	80,2	78,8
Coke and refined petroleum products	4,2	104,5	91,1	104,5	103,5	97,7	105,2	111,1
Basic chemicals	4,5	134,9	123,7	146,3	128,3	132,9	138,9	139,1
Other chemical products	6,2	101,8	106,7	101,7	110,8	102,3	103,7	106,1
Rubber products	1,4	98,7	103,3	113,3	116,3	99,2	102,9	110,8
Plastic products	3,1	89,5	98,9	100,6	95,3	93,0	95,6	89,6
Glass and glass products	1,0	88,5	83,4	96,7	89,4	86,9	96,1	93,2
Other non-metallic mineral products	3,5	90,0	95,3	85,7	87,4	90,7	87,5	83,4
Basic iron and steel products	7,6	116,3	128,7	103,7	104,0	131,5	110,9	106,2
Basic precious and non-ferrous metal products	3,2	163,4	153,7	143,9	169,7	157,1	149,7	174,4
Fabricated metal products	7,0	103,4	106,2	105,9	110,3	102,5	105,0	106,2
Structural metal products	2,4	90,5	99,5	86,0	96,0	94,9	87,5	90,5
Other fabricated metal product	4,6	110,0	109,6	116,1	117,6	106,5	114,0	114,2
Total machinery and equipment	5,8	99,4	108,6	112,6	126,9	99,6	108,4	114,8
General purpose machinery	2,5	110,6	122,6	120,0	109,4	116,8	120,6	104,3
Special purpose machinery	2,9	87,5	93,5	105,7	143,1	80,3	95,8	123,3
Household appliances	0,4	116,9	131,0	116,9	119,3	131,5	122,5	119,3
Electrical machinery, apparatus	3,4	102,1	107,2	106,4	110,5	102,0	104,6	105,0
Radio, television and communication apparatus	1,0	123,7	145,9	124,6	110,1	138,9	120,6	106,8
Professional equipment	0,5	80,9	79,8	96,0	93,2	74,6	94,0	87,4
Motor vehicles; trailers; parts and accessories	8,0	125,4	135,1	141,6	149,3	129,6	137,8	142,8
Motor vehicles	4,5	114,9	131,7	132,5	143,4	126,7	126,5	137,6
Bodies for motor vehicles; trailers and semi-trailers	0,5	63,3	75,1	78,9	81,4	65,3	74,9	70,6
Parts and accessories	3,0	152,4	151,3	166,8	170,5	145,6	166,3	163,9
Other transport equipment	1,0	115,0	105,3	109,7	113,7	109,2	117,2	118,2
Furniture	1,6	98,9	96,7	92,6	99,4	98,3	95,4	101,1
Other manufacturing divisions	2,6	110,4	117,5	107,1	112,2	115,9	111,8	110,3
<b>Total</b>	<b>100,0</b>	<b>106,0</b>	<b>109,0</b>	<b>105,7</b>	<b>111,0</b>	<b>107,4</b>	<b>107,7</b>	<b>109,5</b>

\* Revised  
1/ Preliminary

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

Month	1995	1996	1997	1998	1999	2000*	2001
Actual values							
J	19 206 220	21 803 249	25 254 480	25 913 926	26 410 458	28 601 180	34 077 800*
F	24 414 317	26 328 500	29 866 793	29 901 544	30 607 558	35 189 976	39 302 575
M	26 712 878	28 188 286	29 866 272	32 190 538	32 788 344	38 037 515	42 969 538 1/

A	22 897 368	26 231 967	30 438 604	29 758 879	30 508 382	32 751 350
M	25 806 431	28 293 052	30 626 091	30 352 835	32 737 449	37 127 558
J	26 204 689	28 261 416	30 575 542	31 723 893	33 126 289	38 771 834
J	25 613 126	28 378 392	31 169 707	31 732 667	33 429 319	36 363 341
A	27 064 919	29 568 761	31 400 042	30 810 619	33 740 922	39 034 007
S	27 737 968	29 549 724	31 344 644	32 896 327	35 884 855	39 921 459
O	29 294 559	33 070 022	35 902 602	34 970 472	37 436 877	41 652 445
N	29 960 074	33 084 713	33 709 581	34 300 610	38 898 469	43 816 388
D	23 877 458	26 338 721	28 128 922	29 016 347	33 036 204	37 176 130
Year	308 790 007	339 096 803	368 283 280	373 568 657	398 605 126	448 443 183
Seasonally adjusted values						
J	23 567 002	26 616 974	30 606 956	31 174 551	31 584 283	34 118 856
F	24 833 891	26 861 881	30 582 789	30 724 813	31 539 395	36 337 353
M	25 200 631	26 773 789	28 578 261	30 957 843	31 567 522	36 634 255
A	24 373 470	27 791 354	32 091 168	31 295 738	32 105 339	34 473 107
M	25 935 666	28 320 777	30 590 038	30 314 572	32 796 529	37 264 112
J	25 885 858	27 937 674	30 240 765	31 378 357	32 732 728	38 266 161
J	25 456 834	28 209 916	30 959 740	31 480 613	33 128 474	36 019 658
A	26 403 503	28 959 226	30 873 637	30 343 327	33 307 038	38 599 190
S	26 485 291	28 268 579	30 039 401	31 525 097	34 345 805	38 130 566
O	26 379 815	29 780 370	32 383 121	31 688 064	34 079 300	38 024 024
N	26 842 959	29 732 895	30 388 002	30 982 717	35 162 861	39 623 579
D	26 793 784	29 297 279	30 999 425	31 627 961	35 760 546	40 086 654

\* 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		
		March	February	March 1/	March	February	March
		2000	2000	2001	2000	2001	
Food and food products	59 531 201	4 738 994	5 135 354	5 689 405	4 872 407	5 544 523	5 849 023
Meat, fish, fruit etc.	17 548 765	1 463 043	1 383 569	1 510 136	1 436 638	1 399 006	1 478 756
Dairy products	7 219 584	620 018	617 006	679 098	603 712	648 104	661 044
Grain mill products	15 373 318	1 283 203	1 215 594	1 366 006	1 265 460	1 312 446	1 349 879
Other food products	19 389 534	1 372 730	1 919 185	2 134 165	1 534 360	2 210 831	2 381 652
Beverages	20 378 659	1 808 708	1 624 624	1 960 229	1 661 379	1 822 725	1 793 765
Total textiles	10 164 459	975 122	878 088	966 994	900 742	882 003	894 252
Textiles	6 440 583	637 717	543 345	625 140	572 151	536 364	560 229
Other textile products	3 723 876	337 405	334 743	341 854	322 290	346 022	328 141
Total wearing apparel	10 523 645	1 076 924	823 943	1 004 386	930 242	857 220	868 583
Knitted, crocheted articles	1 693 563	184 128	135 822	165 584	156 458	133 581	140 538
Wearing apparel	8 830 082	892 796	688 121	838 802	773 143	719 169	727 223
Tanning and dressing of leather	2 666 786	226 931	235 338	286 432	217 375	230 361	274 488
Footwear	2 238 178	213 210	150 801	178 391	189 768	151 563	157 869

Wood and products of wood	9 073 197	789 896	796 194	841 582	738 215	809 777	787 038
Sawmilling and planing of wood	2 589 363	234 213	225 338	241 225	219 101	224 877	224 943
Products of wood	6 483 834	555 683	570 856	600 357	518 959	582 893	561 004
Paper and paper products	23 434 546	1 971 056	1 919 281	2 226 241	1 864 280	2 079 756	2 093 607
Total publishing and printing	12 025 406	1 029 282	938 474	993 474	1 013 738	980 575	980 215
Publishing	4 668 251	375 099	382 308	376 075	376 932	396 447	379 693
Printing, recorded media	7 357 155	654 183	556 166	617 399	636 999	586 957	600 879
Coke and refined petroleum products	31 823 682	2 186 772	3 026 244	3 092 232	2 353 905	3 255 441	3 339 280
Basic chemicals	22 044 200	1 669 154	2 089 510	1 822 324	1 785 600	2 122 895	1 953 719
Other chemical products	26 327 958	2 354 258	2 219 022	2 502 014	2 190 935	2 303 481	2 324 512
Rubber products	4 645 737	388 266	453 677	523 496	362 846	431 869	484 889
Plastic products	10 669 187	928 268	976 521	990 140	889 691	983 392	947 908
Glass and glass products	2 280 493	157 319	228 452	213 879	167 966	231 565	228 404
Other non-metallic mineral products	10 249 683	859 205	871 812	952 239	819 550	910 220	908 386
Basic iron and steel products	33 120 629	2 947 217	2 607 532	2 804 593	2 783 042	2 682 431	2 632 746
Basic precious and non-ferrous metal products	15 542 665	1 230 771	1 252 675	1 600 963	1 206 329	1 348 815	1 563 568
Fabricated metal products	24 753 734	2 158 742	2 087 134	2 432 029	2 015 506	2 131 101	2 260 244
Structural metal products	7 818 495	698 671	601 772	870 155	628 512	654 362	773 583
Other fabricated metal product	16 935 239	1 460 071	1 485 362	1 561 874	1 369 984	1 462 274	1 469 083
Total machinery and equipment	19 664 968	1 931 300	1 751 151	2 249 415	1 610 257	1 798 933	1 869 236
General purpose machinery	8 821 849	766 823	692 751	792 393	737 435	767 847	765 288
Special purpose machinery	8 658 911	961 286	880 401	1 257 764	681 128	835 634	891 435
Household appliances	2 184 208	203 191	177 999	199 258	199 352	186 416	194 039
Electrical machinery, apparatus	13 206 995	1 101 182	1 209 566	1 298 988	1 056 342	1 204 793	1 243 948
Radio, television and communication apparatus	4 639 808	505 937	402 222	357 225	448 054	389 478	321 790
Professional equipment	1 388 382	107 966	134 662	137 057	103 386	133 204	131 564
Motor vehicles; trailers; parts and accessories	54 020 716	4 824 206	5 288 536	5 993 509	4 312 198	5 242 351	5 362 044
Motor vehicles	37 493 963	3 417 495	3 574 418	4 287 487	3 011 604	3 547 794	3 775 644
Bodies for motor vehicles; trailers and semi-trailers	1 670 903	159 025	140 649	159 101	140 495	148 191	139 882
Parts and accessories	14 855 850	1 247 686	1 573 469	1 546 921	1 161 392	1 531 777	1 442 261
Other transport equipment	3 247 376	373 644	245 393	378 997	295 289	235 341	291 034
Furniture	6 253 537	497 747	467 011	411 240	531 930	487 707	440 053
Other manufacturing divisions	14 527 356	985 438	1 489 358	1 062 064	1 090 174	1 394 282	1 189 463
Total	448 443 183	38 037 515	39 302 575	42 969 538	36 634 255	40 649 343	41 432 447

\* Revised  
1/ Preliminary

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

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	March	February	March 1/	March	February	March
	2000	2001		2000	2001	

Spinning, weaving and finishing of textiles	255 154	201 634	212 322	248 108	192 816	206 276
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	30 526	30 280	28 508	27 018	26 413	25 652
Other textile articles	67 125	51 546	56 021	62 196	50 868	51 728
Knitted and crocheted fabrics and articles	146 337	119 217	110 086	145 909	116 381	109 987
Wearing apparel	790 323	635 596	721 045	786 146	686 242	718 426
Sawmilling and preserving of timber	24 755	24 878	27 370	22 972	24 893	25 216
Veneer sheets, plywood, laminboard, etc.	24 933	27 721	19 804	25 438	27 001	20 251
Builders' carpentry and joinery	38 692	44 227	46 348	43 061	48 368	51 520
Pulp, paper and paperboard	263 297	488 546	464 076	293 217	506 482	520 074
Corrugated paper and paperboard and containers	333 854	409 027	399 272	343 241	383 369	410 985
Paints, varnishes and coatings	23 008	22 053	23 087	26 578	22 625	26 822
Basic iron and steel products	3 386 001	2 955 557	2 945 024	3 359 827	2 869 870	2 916 643
Steel pipe and tube mills	93 678	180 611	173 846	96 792	185 773	180 504
Basic precious and non-ferrous metal products	1 001 540	1 449 533	1 534 191	990 285	1 470 170	1 511 787
Metal structures, parts	1 042 167	1 308 996	1 332 700	1 044 105	1 404 717	1 333 874
Cutlery, hand tools and general hardware	28 360	31 169	29 269	28 470	30 829	29 569
Metal containers, e.g. cans and tins	81 477	74 472	85 861	77 943	73 327	81 820
Cables, wire products, springs	64 372	61 411	58 059	62 080	59 200	55 945
Metal fasteners	49 755	56 760	55 385	47 884	53 470	53 416
All other metal products	494 133	616 928	709 826	511 151	669 306	735 690
Domestic appliances	37 829	19 185	23 457	37 765	19 195	23 716
Electric motors, generators and transformers	461 745	366 533	374 793	451 737	380 395	367 477
Insulated wire and cables	223 350	286 368	296 602	206 078	274 396	274 762
Accumulators, primary cells and primary batteries	13 119	13 594	15 690	12 541	14 380	14 975
Television, radio and communication apparatus	989 662	1 734 861	1 954 353	983 741	1 698 000	1 933 166
Motor vehicles	2 505 912	2 451 369	2 104 048	2 312 831	2 516 755	1 956 988
Parts and accessories for motor vehicles	279 134	275 916	363 628	285 193	278 216	371 032
Furniture	222 244	227 477	246 059	247 317	263 445	273 811

\* Revised

**Additional information**

## Explanatory notes

<b>Introduction</b>	<b>1</b>	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.
	<b>2</b>	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.
	<b>3</b>	In order to improve timeliness, some information for the current month March 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.
<b>Scope of the survey</b>	<b>4</b>	This survey covers manufacturing establishments conducting activities regarding - <ul style="list-style-type: none"><li>• the manufacturing, processing, making or packing of products;</li><li>• the slaughtering of animals, including poultry; and</li><li>• installation, assembly, completion, repair and related work.</li></ul>
<b>Classification</b>	<b>5</b>	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).
<b>Statistical unit</b>	<b>6</b>	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).
<b>Survey methodology and design</b>	<b>7</b>	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.
	<b>8</b>	The survey is collected by mail each month from a sample of approximately 2 500 manufacturing establishments.
	<b>9</b>	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.
<b>Sample design</b>	<b>10</b>	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.
<b>Benchmarking</b>	<b>11</b>	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.
	<b>12</b>	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.

<b>Production index for the total manufacturing industry</b>	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>
<b>Seasonal adjustment</b>	14	<p>Seasonally adjusted estimates of all items are generated each month, using the X-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.</p>
<b>Trend cycle</b>	15	<p>The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.</p>
<b>Reliability of estimates</b>	16	<p>Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.</p>
<b>Historical data</b>	17	<p>More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups and the value of sales for the period January 1990 to September 1999 were published in statistical releases P3041.3 (entitled <b>Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999</b>) on 21 December 1999 and P3041.4 (entitled <b>Manufacturing statistics: Value of sales, January 1990 to September 1999</b>) on 8 December 1999.</p>

<b>Related publications</b>	<b>18</b>	<p>Users may also wish to refer to the following publications which are available from Stats SA -</p> <ul style="list-style-type: none"> <li>▪ P3041.3 -Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999.</li> <li>▪ P3041.4 -Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.</li> <li>▪ Bulletin of Statistics.</li> <li>▪ SA Statistics.</li> </ul>
<b>Unpublished statistics</b>	<b>19</b>	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.
<b>Rounding-off of figures</b>	<b>20</b>	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.
<b>Pre-release policy</b>	<b>21</b>	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:
	<b>22</b>	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.
	<b>23</b>	Stats SA's pre-release policy may be inspected at its Website, <a href="http://www.statssa.gov.za">www.statssa.gov.za</a> .
<b>Symbols and abbreviations</b>		<p><b>Stats SA</b>      Statistics South Africa</p> <p><b>TBVC states</b>      Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states</p> <p><b>SIC</b>              Standard Industrial Classification of all Economic</p>

	<b>ISIC</b>	Activities International Standard Classification of all Economic Activities
	<b>SNA</b>	System of National Accounts
	<b>PPI</b>	Production Price Index
	<b>GDP</b>	Gross Domestic Product
	<b>1/</b>	Preliminary figures
	<b>*</b>	Revised figures

### Technical notes

<b>Response rates</b>	See the response rates for March 2001, by manufacturing major divisions, in table B.
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**Table B - Response rates for March 2001**

<b>Manufacturing major divisions</b>	<b>% response</b>
Food and food products	73,3
Beverages	82,4
Textile	88,7
Total wearing apparel	69,7
Tanning and dressing of leather	63,3
Footwear	68,2
Wood and products of wood	59,0
Paper and paper products	75,3
Total publishing and printing	57,6
Coke and refined petroleum products	76,7
Basic chemicals	81,0
Other chemical products	74,3

Rubber products	78,3
Plastic products	58,4
Glass and glass products	61,5
Other non-metallic mineral products	68,7
Basic iron and steel products	66,7
Basic precious and non-ferrous metal products	70,8
Fabricated metal products	67,5
Total machinery and equipment	71,8
Electrical machinery, apparatus	53,5
Radio, television and communication apparatus	62,5
Professional equipment	48,3
Motor vehicles; trailers; parts and accessories	86,5
Other transport equipment	71,1
Furniture	72,2
Other manufacturing industries	69,4
<b>Total</b>	<b>70,8</b>

<b>Glossary</b>	
<b>Enterprise</b>	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.
<b>Establishment</b>	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.
<b>Index of physical volume of manufacturing</b>	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

<b>production</b>	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.
<b>Industry</b>	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).
<b>Intercensal period</b>	Intercensal period is the period between January of the one census year and January of the next census year.
<b>Intermediate consumption</b>	<p>Intermediate consumption includes -</p> <ul style="list-style-type: none"> <li>• purchases and transfers-in of materials;</li> <li>• payments to other establishments for work done;</li> <li>• other direct factory costs;</li> <li>• rent and leasing paid;</li> <li>• head office charges;</li> <li>• royalties, copyright, trade names and patent rights paid;</li> <li>• advertising;</li> <li>• insurance premiums;</li> <li>• services; and</li> <li>• secretarial and administrative fees.</li> </ul>
<b>Output</b>	<p>Output is the aggregate value of goods manufactured and work done.</p> <p>Output includes -</p> <ul style="list-style-type: none"> <li>• sales and transfers-out of own manufactures, factory waste and stocks of factored</li> <li>• goods;</li> <li>• repairs;</li> <li>• installation, erection and assembly;</li> <li>• sundry trading revenue;</li> <li>• sales of factored goods minus purchases of factored goods;</li> <li>• rent and leasing received;</li> <li>• royalties received;</li> <li>• difference between opening value and closing value of work in progress, stocks of own</li> </ul>

	<ul style="list-style-type: none"> <li>• manufactures and stocks of factored goods;</li> <li>• head office charges; and</li> <li>• other revenue.</li> </ul>
	Output excludes excise and customs duty paid.
<b>Value added</b>	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.
<b>Sales</b>	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.
<b>Weight</b>	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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