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# Manufacturing: Production and sales

October 2003

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% change

between

May 2003 to

**July 2003** 

and

August 2003 to October 2003

-0.3

+1,1

% change

between

September 2003

and

October 2003

+0.6

-1,4

#### Key figures as at the end of October 2003

Actual estimates	October 2003	% change between October 2002 and October 2003	% change between September 2003 and October 2003	% change between August 2002 to October 2002 and August 2003 to October 2003	% change between January 2002 to October 2002 and January 2003 to October 2003
Physical volume of manufacturing production index (2000=100)	117,5	-2,6	+7,8	-3,7	-2,2
Total value of sales of manufactured products	55 000 6	4.0	.5.4	4.1	.0.6
(R million)	55 892,6	-4,9	+5,4	-4,1	+0,6

Seasonally adjusted estimates	October 2003	% change between October 2002 and October 2003	
Physical volume of manufacturing production index (2000=100)	106,6	-2,4	
Total value of sales of manufactured products			
(R million)	51 066,4	-5,0	

#### Key findings as at the end of October 2003

#### Manufacturing production decreases

Manufacturing production for the three months ended October 2003 reflected a decrease of 0,3%, after seasonal adjustment, compared with the previous three months. Lower production was reported by 15 of the 27 manufacturing divisions. Furthermore, the actual manufacturing production for the first ten months of 2003 reflected a decrease of 2,2% compared with the first ten months of 2002. However, the manufacturing production for October 2003, after seasonal adjustment, reflected an increase of 0,6% compared with September 2003.

The major contributor to the decrease of 0,3%, after seasonal adjustment, in the total manufacturing production was the fabricated metal products division (contributing -0,3 of a percentage point to total manufacturing production) and the food and food products division (contributing -0,2 of a percentage point). However, these increases were partially counteracted by a large increase reported by the motor vehicles, trailers, parts and accessories (contributing +0,4 of a percentage point) division (see table A).

Figure 1 – Index of the physical volume of manufacturing production

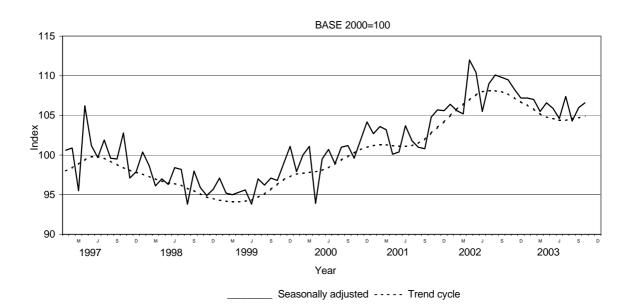


Table A - Contribution of the production by the different manufacturing divisions to total manufacturing production (Base 2000=100)

	Percentage	Average	Quarterly	Contribution
Manufacturing	contribution	seasonally	percentage	(percentage
divisions	to the total	adjusted	change of	points) to
İ	manufacturing	production	August 2003	the seasonally
	production	index for	to	adjusted
	using the	the three	October 2003	quarterly
	weights	months	compared	percentage
	according to	August 2003	with the	change in total
	1996 Census	to	preceding	manufacturing
	of	October 2003	three	production
	Manufacturing		months	1/
		102.4	1 4	 -0,2
Food and food products	10,7	103,4	-1,4	, ,
Beverages	4,6	115,6	+1,0	+0,0
Total textiles	2,9	93,7	-0,8	-0,0
Total wearing apparel	3,6	98,8	+1,2	+0,0
Tanning and dressing of leather		98,9	+6,5	+0,0
Footwear	0,9	78,0	+8,2	+0,1
Wood and products of wood	1,9	106,2	-2,4	-0,1
Paper and paper products	5,3	98,5	+0,5	+0,0
Total publishing and printing	4,1	100,0	+1,5	+0,0
Coke and refined petroleum				
products	4,2	103,6	-1,2	-0,1
Basic chemicals	4,5	105,7	-0,6	-0,0
Other chemical products	6,2	106,2	-0,2	-0,0
Rubber products	1,4	98,6	-2,4	-0,0
Plastic products	3,1	120,4	-0,6	-0,0
Glass and glass products	1,0	116,1	-2,4	-0,0
Other non-metallic mineral				
products	3,5	96,6	-2,6	-0,1
Basic iron and steel products	7,6	105,3	-0,3	-0,0
Basic precious and non-ferrous				
metal products	3,2	101,7	+2,0	+0,1
Fabricated metal products	7,0	110,8	-4,9	-0,3
Total machinery and equipment	5,8	122,3	+0,1	+0,0
Electrical machinery, apparatus	3,4	105,4	+2,0	+0,0
Radio, television and	j			İ
communication apparatus	1,0	80,1	-7,1	-0,1
Professional equipment	0,5	120,5	+2,0	+0,0
Motor vehicles; trailers;	i ·	•	•	·
parts and accessories	8,0	112,5	+4,7	+0,4
Other transport equipment	1,0	105,2	+6,8	+0,1
Furniture	1,6	104,8	-1,4	-0,0
Other manufacturing divisions	2,6	91,6	-5,0	-0,1
Total	100,0	105,6	-0,3	-0,3

<sup>1/</sup> The contribution is calculated by multiplying the quarterly percentage change of each manufacturing division with its corresponding weight in the base year, divided by 100.

#### Sales of manufactured products increase

The total value of sales of manufactured products at current prices for the three months ended October 2003 reflected an increase of 1,1% (+R1 662 million), after seasonal adjustment, compared with the previous three months. Higher manufacturing sales were reported by 21 of the 27 manufacturing divisions during this period (see table B). Furthermore, the actual value of sales of manufactured products at current prices for the first ten months of 2003 reflected an increase of 0,6% compared with the first ten months of 2002. However, the actual value of sales of manufactured products at current prices for the three months ended October 2003 reflected a decrease of 4,1% compared with the three months ended October 2002 (see table C).

The increase of 1,1% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended October 2003 compared with the previous three months was mainly due to large increases reported by the basic precious and non-ferrous metal products (+7,7% or +R356 million), 'other' manufacturing industries (+7,6% or +R325 million), machinery and equipment (+6,5% or +R455 million), motor vehicles, trailers, parts and accessories (+2,9% or +R565 million) and basic chemicals (+2,9% or +R214 million) divisions (see table B).

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

Manufacturing divisions	Seasonally adjusted sales August 2003 to October 2003	Percentage change between May 2003 to July 2003 and August 2003 to October 2003	to
Food and food products Beverages Total textiles Total wearing apparel Tanning and dressing of leather Footwear Wood and products of wood Paper and paper products Total publishing and printing Coke and refined petroleum products Basic chemicals Other chemical products Rubber products Plastic products Glass and glass products Other non-metallic mineral products Basic iron and steel products Basic precious and non-ferrous metal products Fabricated metal products Total machinery and equipment Electrical machinery, apparatus Radio, television and communication apparatus Professional equipment Motor vehicles; trailers; parts and accessories Other transport equipment Furniture Other manufacturing industries	20 833 362 7 546 623 3 021 834 3 287 483 798 406 539 050 3 322 621 7 338 999 3 855 440 8 791 810 7 478 582 9 162 013 1 657 128 3 976 902 860 753 3 750 937 12 942 043 4 965 998 8 764 054 7 477 907 4 376 637 1 274 361 518 066 19 886 268 966 295 1 825 604 4 602 000	+0,8 -3,6 +7,7 -2,9 +6,5 +1,7 +6,2 +0,8 +2,9 +3,1 -4,4	125 301 13 273 -86 622 130 423 35 368 53 171 -88 585 8 328 17 672 41 122 213 551 86 492 -41 904 68 683 14 441  29 557 -489 417  356 477 -266 009 455 111 71 962  74 616 4 266  565 343 29 121 -84 762 325 426
   Total	153 821 175	+1,1	1 662 402

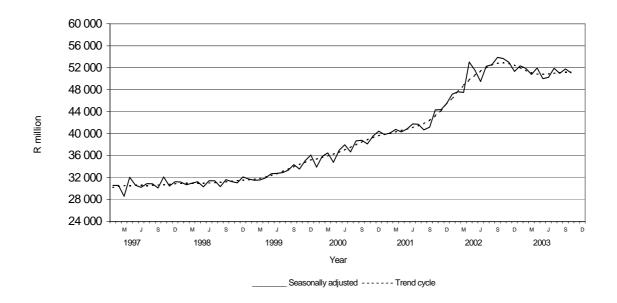
The major contributors to the decrease of 4,1% in the actual value of sales of manufactured products at current prices for the three months ended October 2003 compared with the three months ended October 2002 were the coke and refined petroleum products (-1,9 percentage points or -R3 095 million), motor vehicles, trailers, parts and accessories (-0,6 of a percentage point or -R1 009 million), basic iron and steel products (-0,5 of a percentage point or -R857 million), basic chemicals (-0,5 of a percentage point or -R781 million) and food and food products (-0,4 of a percentage point or -R688 million) divisions.

 $\begin{tabular}{ll} Table C - Contribution of the manufacturing divisions to total value of sales of manufactured products \\ \end{tabular}$ 

Manufacturing divisions	Percentage contribution to total value of sales of manufactured products August 2002 to October 2002	Percentage change between August 2002 to October 2002 and August 2003 to October 2003	Contribution   (percentage   points)   to the   percentage   change in   the total   value of   sales of   manufactured   products 1/	in sales of manufacturing divisions between August 2002 to October 2002 and
Food and food products   Beverages   Total textiles   Total wearing apparel	13,1 4,2 2,2 2,1	-3,1 8,4 -12,5 2,5	-0,4 0,3 -0,3 0,1	-687 997 586 133 -466 634 90 751
Tanning and dressing of leather Footwear Wood and products of wood	0,4 2,1	-12,5 -5,4 -1,7	-0,1 -0,0 -0,0	-114 090   -35 950   -59 889
Paper and paper products Total publishing and printing Coke and refined petroleum products	4,8 2,3	-5,6 7,3	-0,3 0,2	-449 747   279 878   -3 095 164
Basic chemicals   Other chemical products	7,3 5,2 5,8	-25,4 -9,0 -1,2	-1,9 -0,5 -0,1	-780 897 -112 112
Rubber products Plastic products	1,1	-1,2 -2,8 0,2	-0,1 -0,0 0,0	-50 165 9 211
Glass and glass products Other non-metallic mineral	0,6	0,6	0,0	6 090
products Basic iron and steel products Basic precious and non-ferrous	2,4 8,4	0,1 -6,1	0,0 -0,5	5 798 -856 992
metal products Fabricated metal products Total machinery and equipment	3,3 5,8 4,2	-8,1 -3,2 11,3	-0,3 -0,2 0,5	-450 001 -314 019 786 961
Electrical machinery, apparatus Radio, television and	2,7	2,4	0,0	108 300
communication apparatus Professional equipment Motor vehicles; trailers;	0,7 0,3	7,4 -4,4	0,1 -0,0	92 097 -24 206
parts and accessories Other transport equipment	13,1 0,7	-4,6 -15,2	-0,6 -0,1	-1 009 291 -184 221
Furniture Other manufacturing divisions	1,3 2,8	-1,5 -1,6 	-0,0 -0,0 	-32 278 -73 369 
Total	100,0	-4,1	-4,1	-6 831 803

<sup>1/</sup> The contribution (percentage points) is calculated by multiplying the percentage change of each manufacturing division with the percentage contribution of the same division during corresponding period, divided by 100.

Figure 2 - Total value of sales of manufactured products at current prices



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### Notes

Forthcoming issues	Issue	Expected release date
	November 2003 December 2003	13 January 2004 10 February 2004
Purpose of the survey	private establishments, publ manufacturing industry in th calculate physical volume or	g Production and Sales survey is a survey covering a sample of lic corporations and government establishments operating in the le South African economy. The results of this survey are used to f manufacturing production indices in order to estimate the Gross monitor and develop government policy.
Response rates	The response rate for the sur 83,7% and for October 2000	vey on manufacturing production and sales for September 2003 was 3 it was 76,3 %.

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

Base 2000 =	)	20	Jυ	=	1	U	U	
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				Dabe 2000 10	•		
Month	   1997	1998	1999	2000	2001	2002	2003
				Actual indices			
J	85,3	85,8	83,6	85,2	89,5	92,7	93,6
F	99,1	97,2	93,7	98,7	102,0	104,5	105,5
M	98,4	98,9	97,9	104,8	107,3	109,6	109,4
A	100,9	92,3	90,7	89,0	94,6	105,3	100,7
M	101,7	96,8	95,9	99,9	100,8	110,7	106,0
J	100,9	99,6	94,8	102,1	105,0	106,7	105,6
J	103,9	99,9	98,3	100,1	102,7	109,9	107,9*
A	101,9	95,6	97,7	102,5	102,6	111,9	106,3*
S	104,3	102,3	100,9	104,8	104,0	113,1	109,0
0	115,2	106,9	107,3	109,8	115,5	120,6	117,5 1
N	107,9	105,5	109,9	113,6	118,1	121,1	
D	83,5	81,8	86,3	89,5	91,3	92,6	
Year	100,3	96,9	96,4	100,0	102,8	108,2	
				Geasonally adju	sted indice	s	
J	100,6	100,4	97,1	97,8	102,3	106,0	107,2
F	100,9	98,7	95,2	100,1	103,5	105,8	106,9
M	95,5	96,1	95,1	101,4	103,6	105,6	105,5
A	106,2	97,0	95,2	93,7	99,9	111,7	106,6
M	101,2	96,3	95,6	99,6	100,5	110,4	106,0
J	99,7	98,5	93,9	100,9	104,0	105,7	104,5
J	101,9	98,2	97,0	98,9	101,7	108,8	107,2
A	99,5	93,8	96,2	100,9	100,9	109,8	104,3
S	99,5	98,0	97,1	101,2	100,8	109,9	106,0
0	102,8	95,9	96,8	99,6	104,7	109,2	106,6
0			0.0	101,8	105,8	108,4	
N D	97,1 97,9	94,9 95,7	98,8 101,0	104,0	105,6	107,3	

<sup>\*</sup> Revised 1/ Preliminary

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

Base 2000 = 100

| Seasonally adjusted indices Actual indices divisions |Weights | Year and major groups 2002 | 2002 | 2003 | 2003 | 111,4 | 2,8 | 113,1 | 123,5 | 111,0 | 120,0 | 1,4 | 100,7 | 102,4 | 101,6 | 104,0 | 2,1 | 113,6 | 115,0 | 111,5 | 114,2 | 4,4 | 88,7 | 95,6 | 105,2 | 106,8 | 4,6 | 112,4 | 120,3 | 115,2 | 122,0 | 2,9 | 111,6 | 121,9 | 92,3 | 111,6 | 121,9 | 92,3 | 111,6 | 121,9 | 127,0 | 102,1 | 127,6 | 1,7 | 110,4 | 124,9 | 87,8 | 105,5 | 1,2 | 113,3 | 117,7 | 98,7 | 120,2 | 3,6 | 101,9 | 127,0 | 102,1 | 127,6 | 0,6 | 111,2 | 135,4 | 99,4 | 126,3 | 3,0 | 100,0 | 125,3 | 102,6 | 127,9 | 0,4 | 96,9 | 107,2 | 89,2 | 108,9 | 0,9 | 82,0 | 111,1 | 89,3 | 97,2 | 1,9 | 110,6 | 124,9 | 106,4 | 120,1 | 0,8 | 108,3 | 114,9 | 119,1 | 124,0 | 1,2 | 112,1 | 131,5 | 98,0 | 117,6 | 5,3 | 103,1 | 101,1 | 104,1 | 102,2 | 4,1 | 94,8 | 106,3 | 103,7 | 110,9 | 1,5 | 91,3 | 99,6 | 96,0 | 102,8 | 2,6 | 96,8 | 110,0 | 108,1 | 115,5 | 2002 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 2003 | 20 ----------Total publishing and printing
Publishing Printing, recorded media Coke and refined petroleum 102,7 103,5 102,2 106,1 105,7 108,4 100,6 96,7 120,0 121,2 120,2 110.5 111,2 105,2 120,8 120,7 103,8 137,3 132,7 109,6 102,7 112,8 102,2 110,5 105,7 114,4 100,6 125,1 120,0 121,0 120,2 4,2 | 102,5 | 4,5 | 119,1 | 6,2 | 111,5 | 1,4 | 109,9 | 3,1 | 124,3 | 1,0 | 118,9 | 96,8 products Basic chemicals Basic chemicals Other chemical products 101,6 120,5 101,6 123,3 109,8 122,7 99,3 142,0 124,0 134,3 128,1 Rubber products Plastic products Glass and glass products
Other non-metallic mineral
products 120,5 101,6 115,1 104,8 105,7 95,6 107,7 104,9 119,6 118,3 products 3,5 |104,5| 104.5 Basic iron and steel products 7,6 |106,0| 111.0 Basic precious and non-ferrous 102,9 101,5 123,6 110,6 116,7 102,9 127,2 114,5 121,2 125,6 113,0 110,2 130,8 140,2 102,9 115,4 102,6 106,5 104,0 137,0 3.2 100.8 metal products 104.6 99.3 105.5 103.5 Fabricated metal products 7,0 | 119,6 116,4 127,0 113,8 Structural metal products 2,4 | 116,8 110,0 142,7 127,9 Other fabricated metal product 4,6 121,1 119.7 132 5 117 2 Total machinery and equipment 123,0 5,8 | 121,3 134,3 116,8 2,5 | 109,3 | 2,9 | 133,4 | 0,4 | 109,4 | General purpose machinery
Special purpose machinery 127,5 103,1 135,4 137,7 128,6 117,2 138,3 142,0 120,6 Household appliances 121,1 Electrical machinery, apparatus 3,4 103,7 Radio, television and communication apparatus 84,2 108,8 138,5 129,2 82,1 93,7 128,6 125,4 1,0 76,8 84,9 134,9 Professional equipment
Motor vehicles; trailers;
parts and accessories
Motor vehicles
Bodies for motor vehicles;
trailers and semi-trailers
Parts and accessories
Other transport equipment
Furniture Professional equipment 0,5 |120,8| 129,7 118,4 123,3 123,3 103,4 119,9 8,0 | 108,8 | 4,5 | 105,5 | 113,2 115,6 106,9 102,0 114,6 98,4 122,5 139,2 122,9 108,6 114,5 106,1 106,9 91,4 91,1 0,5 |102,8 127,4 113,7 128,4 3,0 |114,9 1,0 |118,2 142,3 145,9 140,0 108,3 150,4 109,6 132,1 96,2 127,6 124,8 134,5 114,7 109,8 145,9 108,3 109.6 108.7 102,3 1,6 | 107,3 Furniture Other manufacturing divisions 2,6 |102,9| 132.1 96.2 92.7 Total 100,0 |108,2 | 120,6 | 109,0 | 117,5 109,2 106,0

<sup>\*</sup> Revised

<sup>1/</sup> Preliminary

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

Month	:	1997	<u>-</u>	1	1998	 	19	999		:	2000		:	2001		:	2002		] :	2003	
										Actua	l vai	lues									
J	25	254	480	25	913	926	26	362	762	28	647	234	33	988	164	40	286	441	44	443	 867
F	29	866	793	29	901	544	30	551	283	34	961	840	39	187	078	46	552	386	50	811	316
M	29	866	272	32	190	538	32	737	212	38	039	203	42	683	525	49	232	865	52	681	625
A	30	438	604	29	758	879	30	447	208	32	651	220	37	828	090	49	747	946	49	112	612
M		626			352			680			038			146		51	664	800		198	
J		575			723				424		710			743			265				204*
J		169			732			262			234			174			869				332*
A		400			810			586			992			164			370				224*
S		344			896			703			916			295			277			009	
0		902			970			386			775			601			802		55	892	587 1/
N		709			300				424		881			478			092				
D	28	128	922	29	016	347	32	992	528	37	256	576	42	207	610	4'/	372	378			
l																					
Year	368	283	280	373	568	657	397	608	593	448	106	023	502	499	271	613	533	065			
										Season	ally	adju	ısted	valı	ıes						
J	30	495	886	31	049	757	31	401	410	33	845	131	39	728	396	47	205	489	52	345	177
F	30	510	634	30	607	174	31	339	025	35	789	563	40	081	792	47	638	907	51	903	962
M	28	713	269	30	970	901	31	546	895		544		41	078	544		469			764	
A		062			431			199			562			017			730			955	
M		714			392			714			985			022			508			021	
J		219			253			556			024			016			491			239	
J		162			847			498			549			518			255			897	
A		756			353			208			543			602			567			972	
S		173			778			626			749			149			871			781	
0		175			399			777			079			365			742		51	066	445
N		312			791			828			458			366			034				
D	30	847	631	31	479	256	35	835	366	40	360	516	45	442	541	51	353	657			

<sup>\*</sup> Revised 1/ Preliminary

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

Man Cont store	 						Ac	 tual	valı	ıes					nally					ies	
Manufacturing   divisions	 	Yea	c	1	tobe:		!	-				r 1/	0	ctob		S	epter	mber	Oct		
and major groups	 	200	2	1	2002					003			1	2002				200			
Food and food products Meat, fish, fruit etc.	!	673 328			732 551	084		004 239			290 389				611 798		025 234			852 213	
Dairy products		221		2		584	2		661	2		351	-		108	2		311	2		125
Grain mill products	!	465		1		170		942			950		1		939		952			883	
Other food products Beverages		658 913			119	298		964 562			041 687		1		766 244		972 523			901 587	
Total textiles		425			264			016			161				736	2		811		033	
Textiles	8	654	162	_	841	882		648	353			274	i -	754	316			783		639	505
Other textile products		771				291			293			885	ļ		420			028			158
Total wearing apparel		404		1			1	161		1	344		1		338	1	078		1	119	
Knitted, crocheted articles   Wearing apparel	!	200 204		1		123 482			856 309	1	116	986			547 791			802 837			716 798
Tanning and dressing of leather		310		-		870			659	1		750			168			449			157
Footwear		185		İ		781			635			402			532			066			920
Wood and products of wood		676		1		128	1	174		1	233		1		421	1	111		1	099	
Sawmilling and planing of wood		496				509			201			188			194			381			817
Products of wood Paper and paper products	! -	180 798		2		619 048	2	833 685	575	2	462	864	1 2		227 631	2	783 487	254	2	402	982
Total publishing and printing		902		1		628		300			444		1		511		258			271	
Publishing		309		-		344	_		995	_		809	1		010	_		055	_		642
Printing, recorded media Coke and refined petroleum		593				284			493			372			501			516			387
products		408			202			102				172			753		234			737	
Basic chemicals		234 440		1	056 556			652 174			908 476		1		236 825		534 105			493 073	
Other chemical products Rubber products		678		3		147	3		555	3		672	3		916	3		801	3		384
Plastic products		136		1		466	1	384		1		663	1		148	1	340		1	341	
Glass and glass products	3	291	669	İ	347	087		325	427		330	375	İ	277	591		292	833		264	759
Other non-metallic mineral	ļ																				
products		496 571			422 698			293			527 456		1		864		231			346	
Basic iron and steel products   Basic precious and non-ferrous	48	5/1	369	4	698	65/	4	474	841	4	456	9/8	4	460	432	4	449	5/5	4	222	5/5
metal products	21	725	348	1	932	634	1	817	485	1	685	867	1	894	347	1	704	881	1	658	240
Fabricated metal products		231			359			066			277				669		946			963	
Structural metal products		580			040				887			615	ļ		798			030			880
Other fabricated metal product		651		1		563		152			301		1		871		062			072	
Total machinery and equipment General purpose machinery		973 502		4		066 167		601 162			636 119		2		330 738	2	466	182		571 116	
Special purpose machinery		739		1	094			180				794	1		765	1	220			201	
Household appliances		732		İ		382			440			946	İ		827			691			728
Electrical machinery, apparatus Radio, television and		926		1			1	492		1	537		1		957	1	438		1	432	
communication apparatus		503				157			451			775			692			433			985
Professional equipment   Motor vehicles; trailers;	2	028	RPT		199	058		T83	671		T83	112		192	449		186	886		T./ 6	322
parts and accessories	80	135	661	8	104	194	6	566	020	7	223	706	7	216	777	6	455	076	6	405	127
Motor vehicles		136				672		491			935				198		477			414	
Bodies for motor vehicles;	ļ																				
trailers and semi-trailers		115				024	_		307	_		919			016	_		388	_		083
Parts and accessories	!	884 370		2		498 402	1	872	857 951	2	033	545 679	1		563 386	1	785	557 597	1	762	810 697
Other transport equipment Furniture		370				861			707			309			478			435			737
Other manufacturing divisions	17	749			719	703		470	465		765	387	1		388	1	557		1	618	
Total												587	53	742	431	51	781	781	51	066	445

<sup>\*</sup> Revised 1/ Preliminary

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

Actual values Seasonally adjusted values Selected manufacturing September | October 1/ October October subgroups October September 2002 2003 2002 2003 Spinning, weaving and finishing of textiles 324 218 244 468 235 230 319 485 255 423 233 360 Tents, tarpaulins, sails and other canvas goods and 46 070 44 109 40 058 44 997 38 482 43 562 automotive textile goods Other textile articles 87 391 112 420 97 281 80 291 100 851 Knitted and crotcheted 108 333 602 778 fabrics and articles 164 004 119 008 119 018 148 328 115 988 Wearing apparel Sawmilling and preserving 926 764 643 294 663 961 840 104 593 848 19 477 23 435 19 573 20 832 21 838 21 250 of timber Veneer sheets, plywood, 35 262 27 206 31 660 25 419 27 798 laminboard, etc. 31 210 Builders' carpentry 36 039 and joinery
Pulp, paper and paperboard 39 262 43 060 42 984 43 575 39 793 185 258 381 683 219 380 Corrugated paper and paper-board and containers 392 096 371 887 375 321 375 340 366 752 362 611 Paints, varnishes and coatings Basic iron and steel products 26 253 4 983 909 24 745 5 256 001 33 712 5 475 935 23 084 4 852 500 24 153 5 051 802 29 938 5 335 464 Steel pipe and tube mills 531 518 281 653 273 085 520 942 292 322 272 119 Basic precious and non-ferrous metal products 1 767 075 1 459 824 1 352 659 891 512 1 342 923 1 005 939 1 704 088 1 408 020 1 365 413 862 650 1 299 218 971 108 Metal structures, parts Cutlery, hand tools and general hardware 19 329 35 764 37 465 20 704 36 347 40 571 Metal containers, e.g. cans 83 344 57 477 79 682 67 243 67 812 67 028 70 880 and tins Cables, wire products, springs 60 671 82 951 87 364 82 459 80 544 940 754 Metal fasteners 95 808 77 133 85 936 78 312 71 840 All other metal products 892 286 1 075 894 932 985 1 092 911 Domestic appliances 32 754 29 651 29 651 29 343 26 896 26 328 Electric motors, generators 545 004 489 216 520 524 311 751 547 647 480 951 525 066 and transformers Insulated wire and cables 378 146 315 252 373 077 Accumulators, primary cells and primary batteries 5 603 3 515 3 626 5 723 3 756 3 706 Television, radio and communication apparatus 2 047 661 2 236 277 2 273 599 2 141 176 2 285 015 2 398 534 Motor vehicles Parts and accessories for 2 529 703 3 702 928 3 326 462 2 646 128 3 606 402 3 504 747 316 149 503 409 298 277 396 675 289 429 369 228 336 256 319 934 294 556 297 606 306 295 231 496 motor vehicles Furniture

<sup>\*</sup> Revised

#### **Explanatory notes**

1

#### Introduction

- Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry covering private manufacturing establishments, public corporations and government establishments. This statistical release contains historical 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.
- In accordance with international practice, the indices have to be re-based every five years to a new base year. The indices in this statistical release have been calculated on the basis of 2000=100. Both actual and seasonally adjusted figures are presented.
- In order to improve timeliness, some information for the current month (October 2003) have been estimated due to late response. These estimates will be revised in 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

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 and major group level. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment.

#### Statistical unit

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 (see paragraph 5).

#### Weighting

A weight is calculated for every major group according to the value added of the relevant major group compared with the value added of 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 (see table D for the fixed weights which were used for the three periods 1990 to 1992, 1993 to 1995 and 1996 to 2003).

#### Re-basing

In accordance with international practice, the indices have to be re-based every five years to a new base year. The indices in this statistical release have been calculated on the basis of 2000=100. The first results on this basis were published in the December 2002 statistical release. Both actual and seasonally adjusted figures are presented.

## Survey methodology and 9 design

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 survey of manufacturing establishments in the private and public sectors.

10 The survey is collected by mail each month from a sample of approximately 2 400 manufacturing establishments.

11 The above-mentioned measurement method in paragraph 9 was followed in 36 of the 45 major groups. On account of certain considerations more appropriate indicators were used for the nine remaining major groups, namely grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, motor vehicles, bodies for motor vehicles and parts and accessories for motor vehicles and other transport equipment. The volume indices for the major groups grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, motor vehicles, bodies for motor vehicles and parts and accessories for motor vehicles and other transport equipment are calculated on the basis of physical quantities. This method based on physical quantities is 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). For publication purposes, the major group tobacco products is included under 'Other manufacturing industries'.

Sample design

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** 

- 13 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 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 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.
- The results of the 1991, 1993 and 1996 Censuses of Manufacturing and information 14 obtained from the former TBVC states were used to adjust the level of the manufacturing production indices and the value of sales of manufactured products. The total value of output of the manufacturing major groups (which represents the total value of work done by the establishments in these major groups) as obtained from the manufacturing censuses, was deflated with appropriate sub-indices of the Production Price Index in order to calculate the real output. The latter served as benchmarks to verify or adjust the level of the monthly physical volume of manufacturing production indices. The level adjustments were done on the volume indices for January of the relevant census year (e.g. the 1996 census year covers the period 1 July 1995 to 30 June 1996 and therefore the benchmarking was done using the index of January 1996 as reference point). The motor vehicle major group is the only exception where the financial year for most of the establishments covered the period 1 January 1995 to 31 December 1995. The benchmarking was done using the physical volume of manufacturing production index for July 1995 as reference point.

#### Production index for the total manufacturing industry

15 In order to calculate a production index for the total manufacturing industry, the production 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 of 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

16

Seasonally adjusted estimates of all major groups 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 This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.

#### Trend cycle

17 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

18 Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.

#### Historical data

- 19 More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups for the period January 1990 to November 2002 is available in statistical release P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002).
- 20 More comprehensive detail on the method of calculation and historical data in respect of the value of sales for the period January 1990 to September 1999 was published on 8 December 1999 in statistical release P3041.4.

#### **Related publications**

- Users may also wish to refer to the following publications which are available from 21 Stats SA -
  - P3041.3: Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002.
  - P3041.4: Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999. Bulletin of Statistics. SA Statistics.

P0441: Gross Domestic Product.

#### **Unpublished statistics**

In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as a computer printout, diskette or CD. Generally a charge is made for providing unpublished statistics.

#### **Rounding-off of figures**

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

25 Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za.

### Symbols and abbreviations

GDP Gross Domestic Product

ISIC International Standard Classification of all Economic Activities

PPI Production Price Index

SIC Standard Industrial Classification of all Economic Activities

SNA System of National Accounts Stats SA Statistics South Africa

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

states

1/ Preliminary figures\* Revised figures

#### Glossary

#### **Enterprise**

An enterprise 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, or part of an enterprise, that is situated at a single location and in which only a single (non-ancillary) productive activity is carried out or in which the principal productive activity accounts for most of the value added.

## Index of physical volume of manufacturing production

The index of physical volume of manufacturing production or a production index is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 2000. 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.

 $Table\ D\ -\ Weights\ and\ the\ average\ indices\ of\ physical\ volume\ of\ manufacturing\ production\ according\ to\ manufacturing\ divisions\ and\ major\ groups\ before\ re-basing$ 

Base 1995 = 100

	T			Base 1995 = 100 Average indices for				
		Weights						
Manufacturing divisions and major groups	1990-1992	1993-1995	1996-2003	the year 2000				
				before re-basing				
Food and food products	10,97	12,33	10,71	99,1				
Meat, fish, fruit etc.	2,93	3,20	2,83	111,7				
Dairy products	1,40	1,68	1,36	89,4				
Grain mill products	2,13	2,80	2,10	91,3				
Other food products	4,52	4,65	4,41	97,6				
Beverages	4,83	5,26	4,60	92,6				
Total textiles	3,33	3,33	2,88	93,5				
Textiles	2,09	2,03	1,69	84,6				
Other textile products	1,24	1,30	1,19	106,2				
Total wearing apparel	3,94	3,81	3,60	82,8				
Knitted, crocheted articles	0,67	0,64	0,60	73,9				
Wearing apparel	3,27	3,17	3,00	84,5				
Tanning and dressing of leather	0,41	0,34	0,41	125,2				
Footwear	1,15	1,10	0,93	65,6				
Wood and products of wood	1,96	1,81	1,95	119,3				
Sawmilling and planning of wood	0,98	0,82	0,77	104,8				
Products of wood	0,97	0,99	1,17	128,8				
Paper and paper products	4,58	4,73	5,32	105,3				
Total publishing and printing	3,57	3,95	4,11	87,8				
Publishing	1,15	1,41	1,48	97,8				
Printing, recorded media	2,42	2,54	2,63	82,3				
Coke and refined petroleum products	6,45	6,41	4,17	104,5				
Basic chemicals	4,57	3,19	4,47	132,0				
Other chemical products	5,97	6,61	6,17	101,8				
Rubber products	1,59	1,52	1,36	98,7				
Plastic products	2,58	2,85	3,08	89,7				
Glass and glass products	1,15	0,99	1,00	88,5				
Other non-metallic mineral products	3,67	3,58	3,50	97,6				
Basic iron and steel products	6,90	6,49	7,56	116,3				
Basic precious and non-ferrous metal products	2,15	2,19	3,25	175,6				
Fabricated metal products	7,53	6,84	7,03	103,4				
Structural metal products	2,84	2,04	2,39	90,5				
Other fabricated metal products	4,69	4,80	4,65	110,0				
Total machinery and equipment	6,31	6,06	5,78	99,7				
General purpose machinery	2,58	2,59	2,50	110,6				
Special purpose machinery	3,14	2,82	2,89	87,8				
Household appliances	0,60	0,65	0,39	117,0				
Electrical machinery, apparatus	3,36	3,49	3,45	102,1				
Electric motors	0,31	0,37	0,57	106,9				
Electricity distribution	0,32	0,46	0,52	135,2				
Insulated wire and cables	0,71	0,79	0,77	91,1				
Accumulators	0,43	0,47	0,33	82,3				
Electric lamps	0,30	0,25	0,22	90,5				
Other electrical equipment	1,28	1,15	1,04	99,9				
Radio, television and communication apparatus	1,59	1,20	0,97	123,8				
Professional equipment	0,41	0,54	0,51	80,9				
Motor vehicles; trailers; parts and accessories	6,40	6,77	8,05	119,6				
Motor vehicles	3,30	3,62	4,50	114,9				
Bodies for motor vehicles; trailers and semi-trailers	0,61	0,52	0,55	63,3				
Parts and accessories	2,49	2,62	3,00	137,0				
Other transport equipment	1,16	1,10	1,01	118,3				
Furniture	1,10	1,62	1,56	98,9				
Other manufacturing divisions	1,79	1,88	2,58	111,5				
Total	100,0	100,0	100,0	106,0				

#### General

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English only.

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