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Manufacturing: Production and sales November 2004

Embargoed until: 11 January 2005 13:00

This is a revised version of the statistical release due to a revision of the index of the division basic iron an steel, non-ferrous metal products, metal products and machinery.

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Statistics South Africa 1 P3041.2

Table A - Selected key figures regarding manufacturing production and sales for November 2004

Actual estimates	November 2004	% change between November 2003 and November 2004	% change between October and November 2004	% change between September to November 2003 and September to November 2004	% change between January to November 2003 and January to November 2004
Physical volume of manufacturing production index (2000=100)	121,7	+5,8	-1,1	+5,8	+3,8
Total value of sales of manufactured products (R million)	74 511	+15.4	+2,2	+12.9	+8.6

Seasonally adjusted estimates	November 2004	% change between November 2003 and November 2004	% change between October and November 2004	% change between June to August 2004 and September to November 2004
Physical volume of manufacturing production index (2000=100)	109,8	+5,6	-1,2	+0,6
Total value of sales of manufactured products (R million)	67 445	+15,8	+1,6	+2,6

Key findings regarding manufacturing production and sales for November 2004

Manufacturing production increases

Manufacturing production for the three months ended November 2004 increased by 0,6%, after seasonal adjustment, compared with the previous three months. Higher production was reported by five of the ten manufacturing divisions.

The major contributor to the seasonally adjusted increase of 0.6% in total manufacturing production for the three months ended November 2004 compared with the previous three months was the wood and wood products, paper, publishing and printing division (contributing +0.4 of a percentage point to total manufacturing production), followed by the basic iron and steel, non-ferrous metal products, metal products and machinery division (contributing +0.3 of a percentage point) and furniture and 'other' manufacturing divisions (contributing +0.3 of a percentage point). However, these increases were partially counteracted by a decrease reported by the petroleum, chemical products, rubber and plastic products division (contributing -0.4 of a percentage point) (see table B).

Figure 1 shows the seasonally adjusted and trend series for the volume index of manufacturing production between January 1998 and November 2004. The trend series has been rising since mid-2003.

Figure 1 – Index of the physical volume of manufacturing production

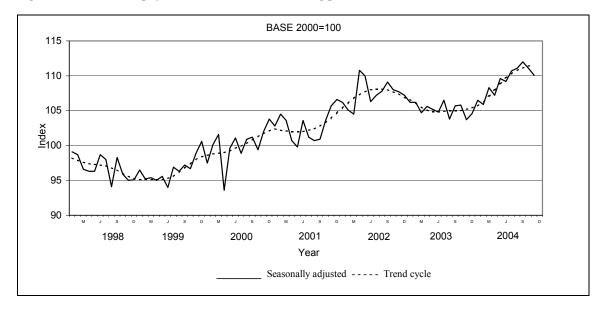


Table B - Contribution of manufacturing divisions to total manufacturing production (Base 2000=100)

Manufacturing divisions 	production using the	Average seasonally adjusted production index for September to November 2004 	Quarterly percentage change of September to November 2004 compared with the preceding three months	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1 1/
Food and beverages Textiles, clothing,	16,4 	113,9	-0,7	-0,1
leather and footwear	5,4	100,6	-0,9	-0,1
Wood and wood products, paper,				1
publishing and printing	11,0	108,5	+3,5	+0,4
Petroleum, chemical products, rubber and plastic products	22,5	108,8	-1,8	-0,4
Glass and non-metallic mineral	22,3	100,0	-1,0	-0,4
products	3,9	118,9	+3,2	+0,1
Basic iron and steel,	ĺ			ĺ
non-ferrous metal products,				1
metal products and machinery	22,4	113,0	+1,3	+0,3
Electrical machinery	2,7	100,3	-0,1	0,0
Radio, television and communication apparatus and	 			l I
professional equipment	1,3	101,0	-2,7	0,0
Motor vehicles, parts and	-/-	, -	_, .	
accessories and	ĺ			İ
other transport equipment	8,6	120,4	+1,2	+0,1
Furniture and other				
manufacturing divisions	5,8	104,8	+4,4	+0,3
Total	100,0	111,0	+0,6	+0,6

^{1/} 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 November 2004 increased by 2,6% (+R5 150 million), after seasonal adjustment, compared with the previous three months. Higher manufacturing sales were reported by nine of the ten manufacturing divisions during this period (see table C). Furthermore, the actual value of sales of manufactured products at current prices for the three months ended November 2004 was 12,9% higher than for the three months ended November 2003 (see table D). Sales of manufactured products at current prices for the first eleven months of 2004 was 8,6% higher than for the first eleven months of 2003.

The seasonally adjusted increase of 2,6% in the total value of sales of manufactured products at current prices for the three months ended November 2004 was mainly due to large increases reported for motor vehicles, parts and accessories and other transport equipment (+5,8% or +R1 661 million), basic iron and steel, non-ferrous metal products, metal products and machinery (+3,6% or +R1 559 million), petroleum, chemical products, rubber and plastic products (+1,7% or +R690 million) and food and beverages (+1,5% or +R508 million) (see table C).

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

Manufacturing divisions 		change between June to August 2004	divisions between
	 R'000		R'000
Food and beverages	34 863 254	+1,5	508 441
Textiles, clothing, leather and footwear	 8 954 199	-2,0	-178 086
Wood and wood products, paper, publishing and printing	17 196 855	+2,1	352 262
Petroleum, chemical products, rubber and plastic products Glass and non-metallic mineral	40 982 288	+1,7	689 528
products Basic iron and steel, non-ferrous metal products,	6 232 127	+4,5	266 866
metal products and machinery Electrical machinery Radio, television and	44 934 830 5 352 927	+3,6 +3,5	1 559 338 183 402
communication apparatus and professional equipment Motor vehicles, parts and accessories and	2 706 734	+0,3	8 253
accessories and other transport equipment Furniture and other	 30 349 282 	+5,8	1 661 259
manufacturing divisions	9 308 506	+1,1	98 286
Total	200 881 002	+2,6	5 149 551

The major contributors to the increase of 12,9% in sales of manufactured products at current prices for the three months ended November 2004 compared with the three months ended November 2003 were basic iron and steel, non-ferrous metal products, metal products and machinery (+3,2 percentage points or +R6 213 million), motor vehicles, parts and accessories and other transport equipment (+2,9 percentage points or +R5 627 million), petroleum, chemical products, rubber and plastic products (+2,5 percentage points or +R4 785 million) and food and beverages (+2,2 percentage points or +R4 276 million) (see table D).

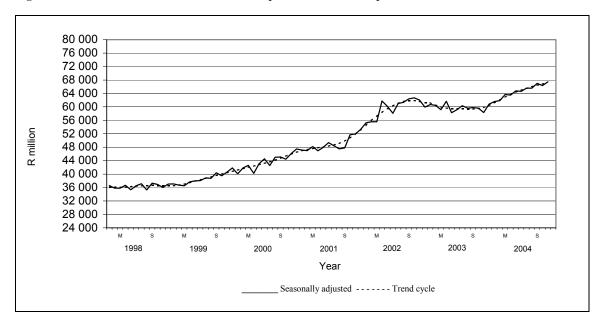
Table D - Contribution of the manufacturing divisions to total value of sales of manufactured products

Manufacturing divisions	contribution to total value of sales of manufactured	September to November 2003 and September to	to the percentage change in the total value of sales of	in sales of manufacturing divisions between September to November 2003 and September to November 2004
	 	 		R'000
Food and beverages	16,8	13,3	2,2	4 276 188
Textiles, clothing, leather and footwear Wood and wood products, paper,	 5,1	5,0	0,3	487 358
publishing and printing Petroleum, chemical products,	9,2	6,5	0,6	1 142 147
rubber and plastic products Glass and non-metallic mineral	20,5	12,2	2,5	4 784 962
products Basic iron and steel,	3,0	21,4	0,6	1 224 143
non-ferrous metal products, metal products and machinery Electrical machinery Radio, television and	 21,7 2,9	14,9 4,5	3,2 0,1	6 213 403 248 364
communication apparatus and professional equipment Motor vehicles, parts and	1,6	-6,4	0,0	-192 203 -192 203
accessories and other transport equipment	14,3	20,5	2,9	5 627 342
Furniture and other manufacturing divisions	4,9	10,2	0,5	967 388
Total	100,0	12,9	12,9	24 779 092

^{1/} 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 shows the seasonally adjusted and trend series for sales of manufactured products between January 1998 and November 2004. After peaking in September 2002, the series declined until May 2003, before resuming its upward movement.

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



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Notes

Forthcoming issues	Issue	Expected release date
	December 2004	8 February 2005
Purpose of the survey	calculate indices of the phy provide an indicator of the are used in monitoring the	manufacturing production and sales survey are used to sical volume of manufacturing production. These indices real level of manufacturing activity in the economy. They state of the economy and formulation of economic policy. Its to estimation of the Gross Domestic Product (GDP).
Special Data Dissemination Standard of the IMF	(SDDS) of the Internation	elease adhere to the Special Data Dissemination Standard al Monetary Fund (IMF), which sets out standards on neliness of data, access by the public, integrity, and quality

Detailed tables

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

Base 2000 = 100

Month	1998	1999	2000	2001	2002	2003	2004
				Actual indices	3		
J	85,8	83 , 6	85 , 2	90,8	93,7	94,4	94,1
F	97,2	93,7	98,7	102,7	103,6	104,4	104,1
M	98,9	97,9	104,8	106,8	108,2	108,4	111,8
A	92,3	90,7	89,0	95,3	104,4	99,9	101,6
M	96,9	95,9	99,9	100,2	110,3	105,4	109,9
J	99,6	94,8	102,1	104,0	106,7	105,3	109,4
J	100,0	98,3	100,1	102,8	108,8	108,5	112,5
A	95,6	97,7	102,5	102,3	109,8	106,0	113,2
S	102,3	100,9	104,8	103,1	111,4	108,4	115,0
0	106,9	107,3	109,8	114,9	119,6	116,7	123,1
N	105,5	109,9	113,6	117,6	119,8	115,0	121,7
D	81,8	86,3	89,5	92,5	92,7	91,4	
Year	96,9	96,4	100,0	102,8	107,4	105,3	
			S	easonally adju	sted indices		
J	99,0	96 , 5	97 , 5	102,8	106,2	107,1	106,5
F	98,7	95,2	100,1	104,6	105,2	106,2	105,9
M	96,7	95,5	101,7	103,7	104,5	104,8	108,3
A	96,3	95,0	93,7	100,8	110,9	105,7	107,2
M	96,3	95,6	99,5	99,9	110,0	105,2	109,6
J	98,7	94,0	101,1	103,6	106,4	104,9	109,2
J	98,0	96,9	98,9	101,0	107,0	106,6	110,7
A	94,1	96,3	100,9	100,5	107,6	103,8	111,1
	98,2	97,2	101,2	100,6	108,8	105,6	112,0
S		96,7	99,4	103,7	108,0	105,4	111,1
0	95,9	90,1	JJ, 4	100/	200,0	, -	/-
-	95,9 95,0	98,8	102,0	106,0	107,9	104,0	109,8

^{1/} Preliminary.

Table 2 - Percentage change in the actual index of the physical volume of manufacturing production: Total

Month	n	1998	1999	2000	2001	2002	2003	2004
J			-2,6	+1,9	+6,6	+3,2	+0,7	-0,3
F	İ		-3,6	+5,3	+4,1	+0,9	+0,8	-0,3
M			-1,0	+7,0	+1,9	+1,3	+0,2	+3,1
A			-1,7	-1,9	+7,1	+9,5	-4,3	+1,7
M			-1,0	+4,2	+0,3	+10,1	-4,4	+4,3
J			-4,8	+7,7	+1,9	+2,6	-1,3	+3,9
J			-1,7	+1,8	+2,7	+5,8	-0,3	+3,7
A			+2,2	+4,9	-0,2	+7,3	-3,5	+6,8
S			-1,4	+3,9	-1,6	+8,1	-2,7	+6,1
1 0			+0,4	+2,3	+4,6	+4,1	-2,4	+5,5
N			+4,2	+3,4	+3,5	+1,9	-4,0	+5,8
l D	1	•	+5,5	+3,7	+3,4	+0,2	-1,4	1
Year			-0,5	+3,7	+2,8	+4,5	-2,0	

The percentage change is the change in the index of the physical volume of manufacturing production of the relevant year compared with the index of physical volume of manufacturing production of the previous year expressed as a percentage.

 $Table\ 3-Indices\ of\ the\ physical\ volume\ of\ manufacturing\ production\ by\ manufacturing\ division$

Base 2000 = 100

	 !	 !	Act	ual indice	 es	Seasonall	ly adjuste	d indices
Manufacturing divisions 	 Weights 		 November	 October	 November 1	 November	 October	 November
 	 	2003	2003	2	004	2003	200)4
 Food and beverages	16,4	103 , 6	114,5	125,1	124,6	102,4	115,3	111,9
Textiles, clothing, leather and footwear	 5,4	 95,7	 103,4	123,5	117,4	 86,9	102,4	99,2
Wood and wood products, paper, publishing and printing	 11 0	 100,5	 113,7	120,9	117,8	101,7	111,1	105,5
Petroleum, chemical products,	İ	İ	İ	,	,	İ	,	i
rubber and plastic products Glass and non-metallic mineral	22 , 5 	106 , 6 	114 , 7 	119,3	113,0	107,3 	109,7	105,0
products Basic iron and steel,	3,9	104,5	115,4	126,5	140,8	103,1	111,2	126,1
non-ferrous metal products,			! 					ľ
metal products and machinery Electrical machinery		111,5 102,7	119,3 116,7	119,0 112,4	122,9 112,8	110,7 103,2	111,8 101,6	114,0 99,7
Radio, television and communication apparatus and	İ	İ	i I					ĺ
professional equipment	1,3	101,2	105,6	105,1	103,6	103,1	98,9	102,5
Motor vehicles, parts and accessories and	 	 	 			 		
other transport equipment Furniture and other	8,6	108,1	114,3	135,2	133,1	103,5	116,7	120,4
manufacturing divisions	5,8	97,8	116,2	141,4	131,6	91,2	108,4	103,2
Total	100,0	105,3	115,0	123,1	121,7	104,0	111,1	109,8

^{1/} Preliminary.

Table 4 - Total sales of manufacturing industry (R'000)

Month	l 	19	998		1	1999		20	000		2	2001		2	2002		2	2003		.	2004		
											Actual	L val	Lues										
 Ј	 	30 5	576	822	31	165	950	33	906	711	40	233	251	47	375	894	51	643	823	52	541	243	
F		35 4	198	013	36	217	248	41	487	385	46	701	165	55	226	455	59	099	962	60	406	324	
M		38 2	210	216	38	782	180	45	391	460	51	045	548	58	657	750	61	384	235	65	908	558	
A		35 3	326	061	36	079	564	38	606	833	44	861	167	59	046	800	58	115	074	60	010	965	
M		35 9				617				078		988			240			700			290		
J		37 5				201				926		924			827			613			828		
J		37 8				493				506		906			523			397			823		
A		36 4				882				295		882			111			566			600		
S		39 (233				496		070			371			812			321		
0				502		392				166		505			692			558			886		
N				784		966				640		662			910			569		74	511	463	1
D		33 8	332	128	38	693	441	43	806	233	49	356	948	55	577	013	55	647	226				
Year	4	42 7	787	993	470	724	592	531	640	729	596	138	752	726	561	143	717	109	533				
											 Seasona	. 1 1				169							
										_	Jeasone	ттту	adju	stea	valu								
 J	 	 37 (085	599	 37	549	520	40	529	490		542			854		60	744	167	61	646	259	
 Ј F				599 569		549 106					47		140	55		422		744 485			646 866		
-	ĺ	36 3	358		37		659	42	432	490	47 47	542	140 374	55 56	854	422 643	60		702	61		857	
F	 	36 3 36 5	358 540	569	37 37	106	659 738	42 43	432 424	490 595	47 47 48	542 832	140 374 824	55 56 56	854 462	422 643 146	60 59	485	702 067	61 63	866	857 453	
F M	 	36 3 36 5	358 540 294	569 811 959	37 37 38	106 167	659 738 688	42 43 40	432 424 911	490 595 112	47 47 48 47	542 832 953	140 374 824 911	55 56 56 62	854 462 367	422 643 146 075	60 59 61	485 174	702 067 111	61 63 63	866 694	857 453 181	
F M A		36 3 36 5 37 2 36 0 36 8	358 540 294 057 898	569 811 959 974 243	37 37 38 38 38	106 167 165 629 516	659 738 688 898 011	42 43 40 43 45	432 424 911 636 154	490 595 112 441 887 671	47 47 48 47 48 50	542 832 953 611 685 090	140 374 824 911 495 103	55 56 56 62 60 59	854 462 367 880 761 065	422 643 146 075 187 450	60 59 61 58 59	485 174 620 274 153	702 067 111 951 268	61 63 63 64 64	866 694 431 725 631	857 453 181 063 127	
F M A		36 3 36 5 37 2 36 0 36 8	358 540 294 057 898	569 811 959 974	37 37 38 38 38	106 167 165 629	659 738 688 898 011	42 43 40 43 45	432 424 911 636 154	490 595 112 441 887	47 47 48 47 48 50	542 832 953 611 685	140 374 824 911 495 103	55 56 56 62 60 59	854 462 367 880 761	422 643 146 075 187 450	60 59 61 58 59 60	485 174 620 274 153 314	702 067 111 951 268 003	61 63 63 64 64	866 694 431 725	857 453 181 063 127	
F M A M J	 	36 3 36 5 37 2 36 6 36 8 37 8	358 540 294 057 398 316 361	569 811 959 974 243 625 160	37 37 38 38 38 39	106 167 165 629 516 583 290	659 738 688 898 011 403 582	42 43 40 43 45 43	432 424 911 636 154 209 680	490 595 112 441 887 671 454 372	47 47 48 47 48 50 49	542 832 953 611 685 090 007 144	140 374 824 911 495 103 734 515	55 56 56 62 60 59 61 62	854 462 367 880 761 065 508 066	422 643 146 075 187 450 831 445	60 59 61 58 59 60 59	485 174 620 274 153 314 624	702 067 111 951 268 003 091	61 63 63 64 64 65	866 694 431 725 631 550 549	857 453 181 063 127 660 664	
F M A M J J	 	36 3 36 5 37 2 36 6 36 8 37 8 35 8	358 540 294 057 398 316 361 741	569 811 959 974 243 625 160 647	37 37 38 38 38 39 39	106 167 165 629 516 583 290 872	659 738 688 898 011 403 582 653	42 43 40 43 45 43 45	432 424 911 636 154 209 680 844	490 595 112 441 887 671 454 372 258	47 47 48 47 48 50 49 48	542 832 953 611 685 090 007 144 547	140 374 824 911 495 103 734 515 288	55 56 56 62 60 59 61 62 63	854 462 367 880 761 065 508 066 364	422 643 146 075 187 450 831 445 445	60 59 61 58 59 60 59 59	485 174 620 274 153 314 624 834	702 067 111 951 268 003 091 342	61 63 64 64 65 65	866 694 431 725 631 550 549 085	857 453 181 063 127 660 664 907	
F M A M J J	 	36 3 36 5 37 2 36 8 37 8 35 8 37 7 37 2	358 540 294 057 398 316 361 741 293	569 811 959 974 243 625 160 647 164	37 37 38 38 39 39 40 39	106 167 165 629 516 583 290 872 991	659 738 688 898 011 403 582 653 788	42 43 40 43 45 43 45 45	432 424 911 636 154 209 680 844 974	490 595 112 441 887 671 454 372 258 153	47 47 48 47 48 50 49 48 48 52	542 832 953 611 685 090 007 144 547 331	140 374 824 911 495 103 734 515 288 939	55 56 56 62 60 59 61 62 63 63	854 462 367 880 761 065 508 066 364 461	422 643 146 075 187 450 831 445 445 737	60 59 61 58 59 60 59 59	485 174 620 274 153 314 624 834 669	702 067 111 951 268 003 091 342 838	61 63 63 64 64 65 65 67	866 694 431 725 631 550 549 085 350	857 453 181 063 127 660 664 907 425	
F M A M J J A	 	36 3 36 5 37 2 36 6 36 8 37 8 35 8	358 540 294 057 398 316 361 741 293	569 811 959 974 243 625 160 647 164 158	37 38 38 38 39 40 39 41	106 167 165 629 516 583 290 872	659 738 688 898 011 403 582 653 788 933	42 43 40 43 45 43 45 44 47	432 424 911 636 154 209 680 844 974 028	490 595 112 441 887 671 454 372 258	47 47 48 47 48 50 49 48 48 52 52	542 832 953 611 685 090 007 144 547	140 374 824 911 495 103 734 515 288 939 752	55 56 56 62 60 59 61 62 63 63	854 462 367 880 761 065 508 066 364	422 643 146 075 187 450 831 445 737 744	60 59 61 58 59 60 59 59 59	485 174 620 274 153 314 624 834	702 067 111 951 268 003 091 342 838 328	61 63 63 64 64 65 65 67	866 694 431 725 631 550 549 085	857 453 181 063 127 660 664 907 425	

^{1/} Preliminary.

Table 5 - Percentage change in the actual value of sales of the manufacturing industry: Total

Mont	th	1998	1999	2000	2001	2002	2003	2004
			+1,9	+8,8	+18,7	+17,8	+9,0	+1,7
F	- 1		+2,0	+14,6	+12,6	+18,3	+7,0	+2,2
M	- 1		+1,5	+17,0	+12,5	+14,9	+4,6	+7,4
A	- 1		+2,1	+7,0	+16,2	+31,6	-1,6	+3,3
M	- 1		+7,4	+13,4	+11,8	+25,0	-4,1	+11,2
J	- 1		+4,5	+17,4	+10,6	+17,5	-0,4	+8,7
J	- 1		+4,4	+9,1	+13,5	+25,8	-1,8	+9,0
A	- 1		+9,4	+16,2	+5,5	+29,1	-4,0	+10,0
S	- 1		+8,1	+12,1	+5,7	+30,6	-5,4	+12,1
0	- 1		+6,6	+11,7	+16,0	+21,2	-5,9	+11,2
N	ĺ		+12,6	+13,7	+12,3	+19,2	-7,6	+15,4
D	- 1		+14,4	+13,2	+12,7	+12,6	+0,1	
Year	r		+6,3	+12,9	+12,1	+21,9	-1,3	

The percentage change is the change in the sales of the manufacturing industry of the relevant year compared with $\,$ the sales of the previous year expressed as a percentage.

Table 6 - Sales of manufactured products by manufacturing division (R'000)

 				 !			Act	tual	valı	ıes			S	easo	nall	y ac	djust	ted v	valı	ies	
Manufacturing divisions		Year	r	No	vembe	er	Oct	tobei	:	No'	vembe	er 1/		oveml	oer	00	ctobe	er	Nov	vembe	er
	 	2003	3	:	2003				20	004				2003				2004	4		
Food and beverages Textiles, clothing, leather and footwear	i		847 661	İ	879 291							526 547	İ	037 694							
Wood and wood products, paper, publishing and printing Petroleum, chemical products,	i			İ								127	i	388							785
	1148			i								584 861	i	663 692							727
Basic iron and steel, non-ferrous metal products,	İ İ			i I								813	 			_			_		
Electrical machinery Radio, television and communication apparatus and	20				898			974				994		683			824			771	
professional equipment Motor vehicles, parts and accessories and	11	116	190		987	929		932	118		916	836	 	976	287		901	693		902	361
	i		318 383	İ								219 956	i								524 304
Total	 717	109	533	64	569	771	72	886	164	74	511	463	58	259	328	66	350	425	67	444	670

^{1/} Preliminary.

Explanatory notes

1

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Introduction

- Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry, covering manufacturing enterprises. This statistical release contains the results of a sample drawn from the new business register, with significantly enhanced coverage of South African businesses (see 4 below). The release contains monthly indices of the physical volume of manufacturing production and monthly value of sales of manufactured products by division within manufacturing.
- In accordance with international practice, the indices are re-based every five years to a new base year. The base period of the index is 2000. Both actual and seasonally adjusted figures are presented.
- As is usual, information for the latest month has had to be estimated for respondents who have not reported by the cut-off date for production of results. These estimates will be revised in future statistical releases when their reported information becomes available.
- As indicated earlier, Stats SA developed a new business register, based on the value-added tax (VAT) database obtained from the South African Revenue Service (SARS), which replaced the previous business register. All enterprises are legally bound to register for VAT when their turnover for a period of twelve months equals or exceeds R300 000. Enterprises that conform to these criteria are included in the new business register, and hence were given a chance of selection in the new sample for the survey.

Scope of the survey

- This survey covers manufacturing enterprises, i.e. those conducting activities in -
 - 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 (two digit) level. Each enterprise is classified to an industry which reflects its predominant activity.

Statistical unit

The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.

Weighting methodology

- For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form division estimates. These procedures, which are in line with international best practice, are described in more detail on the Stats SA website at www.statssa.gov.za/publications/publicationsearch.asp.
- 9 For indices, a weight is calculated for every division according to the value added of the division relative to the total value added of the manufacturing industry as a whole, based on the results of the most recent census of manufacturing or large sample of the manufacturing industry. For the period 1996 to 2000 the weights are based on the 1996 Census of Manufacturing and for the period 2001 to 2004 the weights are based on the 2001 large sample survey of the manufacturing industry. Weights between census years are fixed. The production indices of all divisions are multiplied by the applicable weights and aggregated to produce the index for the total physical volume of manufacturing production (see table E for the fixed weights which were used for the two periods 1996 to 2000 and 2001 to 2004).

Survey methodology and design

The survey is conducted by mail on a monthly basis. Questionnaires are sent to a sample of just over 3 000 enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Fax and telephone reminders are used to follow up non-respondents.

- 11 The value of sales of manufactured products is obtained monthly from the sample of just over 3 000 enterprises, which was drawn in January 2003 from a population then of approximately 31 000 manufacturing enterprises. Each manufacturing division is divided into four size groups. The sample is drawn at the SIC two-digit level. All large enterprises (size group one), which comprise about one-third of the enterprises in the current sample, are completely enumerated. Simple random sampling is applied for size group two (medium sized) enterprises, and for size groups three and four (small) enterprises. The total value of sales of manufactured products of large enterprises (size group one) in a division is added to the weighted totals of size groups two, three and four of that division to reflect the total value of sales of the division.
- The calculation of the monthly production indices is based on the value of sales of products and articles manufactured, after the effect of price changes has been eliminated through deflation using appropriate indices of the Production Price Index (PPI). For six of the ten SIC divisions in manufacturing, the value of production is calculated from the value of sales and stocks of manufactured products obtained from the monthly survey of manufacturing enterprises.
- More direct indicators are used for the production of 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 these major groups are calculated on the basis of physical quantities. This method is used by the national statistical agencies of many other countries for petroleum products as the results are considered more satisfactory (mainly because these commodities are relatively homogeneous).

Seasonal adjustment

Seasonally adjusted estimates of all divisions are generated each month, using the X-11 Seasonal Adjustment Program developed by the US Bureau of the Census, 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. Therefore the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.

Trend cycle

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 to estimates of the underlying trend cycle.

Reliability of estimates

- Data presented in this publication are based on information obtained from a sample and are, therefore, subject to sampling variability; that is, they may differ from the figures that would have been produced if the data had been obtained from all enterprises in the manufacturing industry in South Africa. Estimates are subject to sampling and non-sampling errors.
- Inaccuracies may occur because of imperfections in reporting by enterprises and errors made in the collection and processing of the data. Inaccuracies of this kind are referred to as non-sampling errors. Every effort is made to minimise non-sampling errors by careful design of questionnaires, testing them in pilot studies, editing reported data and implementing efficient operating procedures. Fluctuations may occur in consecutive months as a result of seasonal and economic factors.

Revised figures	18	Revised figures are due to respondents reporting revisions or corrections to their figures and late submission of their data to Stats SA. Figures for the latest month are preliminary. Data are edited at the enterprise level.					
Related publications	19	Users may also wish to refer to the following publications available from Stats SA -					
			Statistics issued quarterly. Statistics issued annually.				
Rounding of figures	20	The figures in the tables have, where necessary, been rounded to the nearest digit shown.					
Pre-release policy	21	Stats SA's pre-	-release policy may be inspected at its website, www.statssa.gov.za.				
Symbols and abbreviations	22	GDP ISIC m SIC SARS Stats SA VAT 1/ *	Gross Domestic Product International Standard Industrial Classification Million Standard Industrial Classification of all Economic Activities South African Revenue Service Statistics South Africa Value added tax Preliminary figures Revised figures				

Glossary

Enterprise

The enterprise is a legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.

Index of physical volume of manufacturing production

The index of physical volume of manufacturing production, also known as a production index, is a statistical measure of the change in the volume of production. The production index of a division is the ratio between the volume of production of a division in a given period and the volume of production of the same division in the base period. The base period is 2000. The production in the base period is set at 100.

Industry

An industry is made up of enterprises 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).

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 and 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.

Statistical unit

A statistical unit is a unit about which statistics are tabulated, compiled or published. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

For the purpose of this publication, the statistical unit in the monthly Manufacturing: Production and Sales survey is the enterprise.

Turnover

Turnover refers to -

- the value of sales and transfers out of all own manufactured products/articles;
- amounts received for work done; and
- amounts received for services rendered.

Turnover excludes -

- value added tax (VAT);
- export freight charges; and
- excise duty.

Weight

The weight of a division of manufacturing in the overall index for manufacturing is the ratio of the value added of the division (i.e. output of a division minus intermediate consumption) to the total value added of the manufacturing industry. The weight reflects the importance of the division in the total. The ratios change over time due to changes in the relative performance of industries, due to factors such as quality changes, changes in relative prices, and changes in customer preferences. New weights need to be calculated from time to time.

Table E – Weights according to manufacturing divisions

Manufacturing divisions 	Weights according to the 1996 Census of Manu- facturing 1996 - 2000	Weights according to the 2001 large sample survey of the manufacturing industry 2001 - 2004
Food and beverages Textiles, clothing,	15,3	16,4
leather and footwear	7,8	5,4
Wood and wood products; paper; publishing and printing Petroleum, chemical products,	11,4	11,0
rubber and plastic products Glass and non-metallic mineral	19,3	22,5
products Basic iron and steel,	4,5	3,9
non-ferrous metal products; metal products and machinery Electrical machinery Radio, television and	23,6	22,4 2,7
communication apparatus; professional equipment Motor vehicles, parts and	1,5	1,3
accessories and other transport equipment Furniture and other	9,1	8,6
manufacturing divisions	4,1	5,8
Total	100,0	100,0

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General information

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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Advance release calendar

An advance release calendar is disseminated on www.statssa.gov.za

Stats SA products

A complete set of Stats SA publications is available at the Stats SA Library and the following libraries:

National Library of South Africa, Pretoria Division
National Library of South Africa, Cape Town Division
Natal Society Library, Pietermaritzburg
Library of Parliament, Cape Town
Bloemfontein Public Library
Johannesburg Public Library
Eastern Cape Library Services, King William's Town
Central Regional Library, Polokwane
Central Reference Library, Nelspruit
Central Reference Collection, Kimberley
Central Reference Library, Mmabatho

Stats SA also provides a subscription service.

Electronic services

A large range of data are available via on-line services, diskette and computer printouts. For more details about our electronic data services, contact (012) 310 8600/8390/8351/4892/8496/8095.

You can visit us on the Internet at: www.statssa.gov.za

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