

Dipalopalo tsa Aforika Borwa • Statistieke Suid-Afrika • Tistatistiki ta Afrika-Dzonga • Ukuqokelelwa kwamanani eNingizimu Afrika

Manufacturing: Production and sales April 2005

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Table A - Selected key figures regarding manufacturing production and sales for April 2005

Estimates	April 2005	% change between April 2004 and April 2005	% change between February to April 2004 and February to April 2005	% change between January to April 2004 and January to April 2005
Physical volume of manufacturing production index (2000=100)	107,4	+7,1	+3,4	+3,4
Total value of sales of manufactured products (R million)	68 107	+11,4	+5,6	+5,5

Seasonally adjusted estimates	April 2005	% change between March and April 2005	% change between November 2004 to January 2005 and February to April 2005
Physical volume of manufacturing production index (2000=100)	114,1	+2,8	+1,0
Total value of sales of manufactured products (R million)	70 896	+5,1	+1,2

Key findings regarding manufacturing production and sales for April 2005

Manufacturing production increases

The estimated manufacturing production for the three months ended April 2005 increased by 1,0% after seasonal adjustment, compared with the previous three months. Higher production was reported by four of the ten manufacturing divisions. Manufacturers reported increased production and sales in April 2005 due to a longer working month after the public holidays in March 2005.

The major contributor to the seasonally adjusted increase of 1,0% in total manufacturing production for the three months ended April 2005 compared with the previous three months was the food and beverages division (contributing +1,3 percentage points to total manufacturing production), followed by the petroleum, chemical products, rubber and plastic products division (contributing +0,3 of a percentage point), wood and wood products, paper, publishing and printing (contributing +0,1 of a percentage point) and the glass and non-metallic mineral products division (contributing +0,1 of a percentage point). However, these increases were counteracted by decreases reported by the furniture and 'other' manufacturing division (contributing -0,5 of a percentage point), the textiles, clothing, leather and footwear division (contributing -0,1 of a percentage point) and the motor vehicles, parts and accessories and other transport equipment division (contributing -0,1 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 1999 and April 2005. The trend series has been rising since mid-2003 to September 2004, declining slightly up to December 2004 and resuming its upward trend in 2005.

Figure 1 – Index of the physical volume of manufacturing production

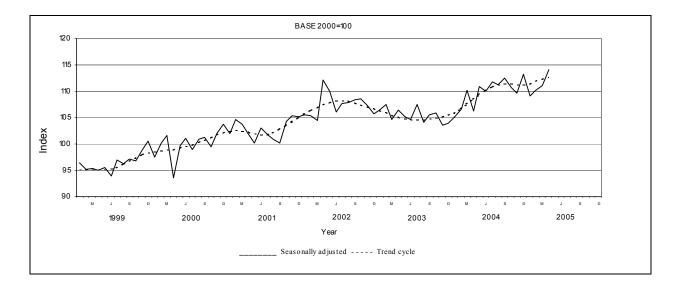


Table B - Contribution of manufacturing divisions to total manufacturing production (Base 2000=100)

Manufacturing divisions 	contribution to the total manufacturing production using the	seasonally adjusted production index for November 2004 to January 2005	adjusted production index for February to April 2005	percentage change of February to April 2005 compared with the	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and beverages	16,4	112,1	120,7	+7,7	+1,3
Textiles, clothing, leather and footwear	5,4	102,0	100,9	-1,1	-0,1
Wood and wood products, paper,]	102/0	100,3	-/-	0,1
publishing and printing	11,0	104,8	105,2	+0,4	+0,1
Petroleum, chemical products,	22,5	107,5	108,7	+1,1	10.2.1
rubber and plastic products Glass and non-metallic mineral		107,5	108,7	+1,1	+0,3
products	3,9	112,7	116,2	+3,1	+0,1
Basic iron and steel,	1				!
non-ferrous metal products, metal products and machinery	22,4	114,5	114,5	0.0	0,0
Electrical machinery	2,7	98,4	98,4	0,0	0,0
Radio, television and	2//	30,1	30,1	0,0	0,01
communication apparatus and	İ				i
professional equipment	1,3	107,1	102,3	-4,5	-0,1
Motor vehicles, parts and	!				1
accessories and other transport equipment	8,6	120,5	119,4	-0,9	-0,1
Furniture and other	0,0	120,5	119,4	-0,9	-0,1
manufacturing divisions	5,8	113,0	103,9	-8,1	-0,5
Total	100,0	110,6	111,8	+1,0	+1,0

^{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 estimated total value of sales of manufactured products at current prices for the three months ended April 2005 increased by 1,2% (+R2 497 million), after seasonal adjustment, compared with the previous three months. Higher manufacturing sales were reported by six of the ten manufacturing divisions during this period (see table C). The value of sales of manufactured products at current prices for the three months ended April 2005 was 5,6% higher than for the three months ended April 2004 (see table D).

The seasonally adjusted increase of 1,2% in the total value of sales of manufactured products at current prices for the three months ended April 2005 was mainly due to increases reported for glass and non-metallic mineral products (+5,7% or +R317 million), motor vehicles, parts and accessories and other transport equipment (+2,7% or +R813 million), furniture and 'other' manufacturing divisions (+2,6% or +R243 million), food and beverages (+2,5% or +R961 million), wood and wood products, paper, publishing and printing (+2,0% or +R351 million) and basic iron and steel, non-ferrous metal products, metal products and machinery (+1,0% or +R446 million) divisions (see table C).

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

Manufacturing divisions	adjus sales Novem	sted s nber	2004	Seasor adjust sales Februa April	ed ary t		change between November 2004 to January 2005 and February to April 2005 	manufacturing divisions between
i	l F	R'000		R'	000		i	R'000
Food and beverages Textiles, clothing,	38	180	813	39	141	660	+2,5	960 847
leather and footwear		666	187	10	504	735	-1,5	-161 452
Wood and wood products, paper, publishing and printing	17	533	110	17	884	064	+2,0	350 954
Petroleum, chemical products, rubber and plastic products	39	665	624	39	351	492	-0,8	-314 132
Glass and non-metallic mineral products		584	398	5	901	538	+5,7	317 140
Basic iron and steel, non-ferrous metal products,	 							
metal products and machinery				44				445 640
Electrical machinery Radio, television and communication apparatus and	5 	101	605	5	017	160	-1,7	-84 445
professional equipment Motor vehicles, parts and	2	748	313	2	675	083	-2,7	-73 230
	I I 30	389	368	31	202	640	+2,7	813 272
Furniture and other manufacturing divisions	1 9	164	205	9	406	919	+2,6	242 714
Total	202	827	491	205	324	804	+1,2	2 497 313

The major contributors to the increase of 5,6% in sales of manufactured products at current prices for the three months ended April 2005 compared with the three months ended April 2004 were the basic iron and steel, non-ferrous metal products, metal products and machinery (+1,6 percentage points or +R3 062 million), motor vehicles, parts and accessories and other transport equipment (+1,4 percentage points or +R2 707 million), food and beverages (+1,2 percentage points or +R2 231 million) and petroleum chemical products, rubber and plastic products (+0,7 of a percentage point or +R1 380 million) (see table D).

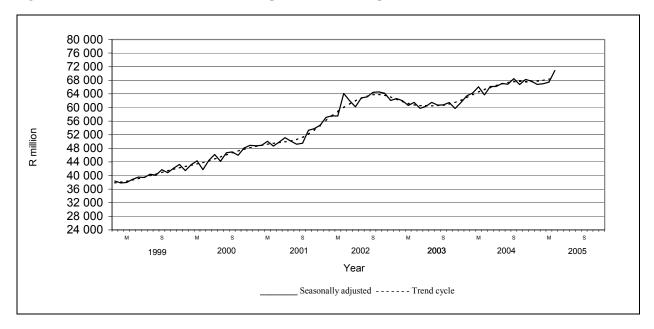
Table D - Contribution of the manufacturing divisions to total value of sales of manufactured products

Manufacturing divisions 	contribution to total value of sales of manufactured products February to	Change Detween February to April 2004	to the percentage change in the total value of	in sales of manufacturing divisions between February to April 2004 and February to April 2005
	 	 	 	R'000
Food and beverages Textiles, clothing,	18,8	+6,2	+1,2	2 231 344
leather and footwear Wood and wood products, paper,	5,4	+0,7	+0,0	77 512
publishing and printing Petroleum, chemical products,	8,8	+3,1	+0,3	527 485
rubber and plastic products Glass and non-metallic mineral	19 , 5	+3,7	+0,7	1 380 352
products Basic iron and steel, non-ferrous metal products,	2,7 	+9,9	+0,3	502 752
metal products and machinery	21,2	+7,5	+1,6	3 061 769 1
Electrical machinery Radio, television and communication apparatus and	2,6	+0,3	-0,0	16 942
professional equipment Motor vehicles, parts and accessories and	1,7	-9,4	-0,2	-296 513
other transport equipment Furniture and other	14,9	+9,5	+1,4	2 707 433
manufacturing divisions	4,4	+6,9	+0,3	589 843
Total	100,0	+5,6	+5,6	10 798 919

^{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 in 2004, divided by 100.

Figure 2 shows the seasonally adjusted and trend series for sales of manufactured products between January 1999 and April 2005. 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



P J Lehohla Statistician-General

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Notes

Forthcoming issues	Issue	Expected release date
	May 2005	12 July 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	ı	1999	ı	2000		2001	ı	2002	ı	2003	ı	2004	ı	2	005
							Ir	ndices							
 Ј		83,6		85 , 2		91,1		93,	- 7	94,4		93,1		1/	96,2
F		93,7		98,7		102,7		103,	5	104,3		103,6	5	1/	106,5
M		97,9		104,8		106,8		108,	2	108,4		114,0)	1/	114,8
A		90,7		89,0		95,3		104,	1	100,0		100,3	3	1/	107,4
M		95,9		99,9		100,2		110,	3	105,6		111,5	5		
J		94,8		102,1		104,0		106,	7	105,3		110,5	5		
J		98,3		100,1		102,8		108,	3	108,7		112,9)		
A		97,7		102,5		102,3		109,	3	106,4		113,6	5		
S		100,9		104,8		103,1		111,	1	108,6		115,9	9		
0		107,3		109,8		114,9		119,	5	116,7		* 122,4	Į		
N		109,9		113,6		117,6		119,	3	115,1		122,2	2		
D		86,3		89,5		92,5		92,	7	91,4		98,9	9		
Year	1	96,4		100,0		102,8		107,	1	105,4		109,9)		
							Seaso	onally a	djuste	ed indices	3				
 Ј	1	95,4		96,9		102,4		105,	 5	106,6		105,1			109,1
F	İ	94,6		99,7		105,0		105,	3	107,2		106,6	5		110,2
M	1	94,4		101,0		103,7		104,	5	104,7		110,2	2		111,0
A	1	96,6		94,8		101,5		111,	9	106,5		106,2	2		114,1
M	1	96,4		100,0		100,1		110,0)	105,2		110,9)		
J		94,0		101,2		103,1		105,	9	104,7		110,0)		
J		97,3		99,1		101,8		107,	5	107,5		111,7	7		
A		96,9		101,2		100,9		107,	3	104,2		111,3	3		
S		97,1		101,1		100,1		108,	3	105,4		112,5	5		
0	1	97,3		99,6		104,3		108,	5	105,8		110,7	7		
N		98,2		101,5		105,3		107,	3	103,6		109,6	5		
D		99,5		103,0		105,0		105,	5	103,7		113,2	2		

^{1/} Preliminary.

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

Month	1999	1	2000	2001	2002	2003	2004	2005
J			+1,9	+6 , 9	+2,9	+0,7	-1,4	+3,3
F	İ		+5,3	+4,1	+0,9	+0,7	-0,7	+2,8
M	1		+7,0	+1,9	+1,3	+0,2	+5,2	+0,7
A	ĺ		-1,9	+7,1	+9,5	-4,2	+0,3	+7,1
M	1		+4,2	+0,3	+10,1	-4,3	+5,6	
J	1		+7,7	+1,9	+2,6	-1,3	+4,9	
J	1		+1,8	+2,7	+5,8	-0,1	+3,9	
A	1		+4,9	-0,2	+7,3	-3,1	+6,8	
l S	1		+3,9	-1,6	+8,1	-2,5	+6,7	
1 0	1		+2,3	+4,6	+4,1	-2,4	+4,9	
l N	1		+3,4	+3,5	+1,9	-3,9	+6,2	
l D	1		+3,7	+3,4	+0,2	-1,4	+8,2	
Year			+3,7	+2,8	+4,5	-1,9	+4,3	

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.

^{*} Revised.

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

Base 2000 = 100

 Manufacturing	 	 *		Indice	s	Seasonall	y adjusted	indices
	 Weights 	i i	April	1/ March	1/ April	April	 March	April
	 	2004	2004		2005	2004	2005	
Food and beverages	16,4	111,8	97,1	123,5	109,0	106,7	122,6	120,8
leather and footwear Wood and wood products, paper,	5,4	100,4	93,8	105,8	96,6	98,8	99,2	101,8
publishing and printing Petroleum, chemical products,	11,0	104,0	97,1	107,0	102,9	102,0	103,8	107,9
rubber and plastic products Glass and non-metallic mineral	22,5	1110,7	107,8	113,0	109,3	109,8	109,2	111,1
products Basic iron and steel, non-ferrous metal products,	3,9	113,1	103,5	113,1	112,7	108,9	113,2	118,3
metal products, metal products, metal products and machinery Electrical machinery Radio, television and	. ,	 113,9 98,6	105,2 92,3	123,3 101,1	109,9 95,0	112,8 95,6	115,6 98,5	118,4 98,9
communication apparatus and professional equipment Motor vehicles, parts and	 1,3	 111,3 	119,4	107,9	104,2	117,3	101,6	102,5
accessories and other transport equipment Furniture and other	 8,6	 115 , 4 	96,7	119,5	117,6	100,3	114,6	121,7
manufacturing divisions	5 , 8	101,0	76,4	90,0	92,0	89,1	92,5	108,3
Total	100,0	109,9	100,3	114,8	107,4	106,2	111,0	114,1

Table 3 - Indices of the physical volume of manufacturing production by manufacturing division (concluded)

Manufacturing	 	 	Iı	ndices	 	Seasonall	Ly adjust	ed indices
	 Weights 		April 2004	 April 2005 	Percentage difference between April 2004 and April 2005		April 2005	Percentage difference between March and April 2005
Food and beverages	 16,4	111 , 8	97,1	109,0	+12,3	122,6	120,8	-1,5
Textiles, clothing,		İ			i			i
leather and footwear	5,4	100,4	93,8	96,6	+3,0	99,2	101,8	+2,6
Wood and wood products, paper,					I			1
publishing and printing	11,0	104,0	97,1	102,9	+6,0	103,8	107,9	+3,9
Petroleum, chemical products,					!			!
rubber and plastic products		110,7	107,8	109,3	+1,4	109,2	111,1	+1,7
Glass and non-metallic mineral			400 5	440 5			440.0	
products	3,9	113,1	103,5	112,7	+8,9	113,2	118,3	+4,5
Basic iron and steel,					!			
non-ferrous metal products, metal products and machinery	1 22 4	 113,9	105,2	109,9	+4,5	115,6	118,4	+2,4
metal products and machinery Electrical machinery	. ,	113 , 9 98,6		95,0	+4,5	98,5	98,9	+2,4
Radio, television and	∠, /	90 , 0	92,3	93,0	TZ,9	90,3	90,9	TU, 4
communication apparatus and	 	! ! ! !						
professional equipment	1.3	' ' 111 . 3	119,4	104,2	-12.7	101,6	102,5	+0,9
Motor vehicles, parts and	1 1,5	111 , 5	110,1	101/2	12,7	101,0	102,0	10,5
accessories and	! 				'			i
other transport equipment	8.6	 115,4	96,7	117,6	+21,6	114,6	121.7	+6,2
Furniture and other	1	i, -,	,	/-		92,5	,	
manufacturing divisions	5 , 8	101,0	76,4	92,0	+20,4	,-	108,3	+17,1
Total	 100,0	109 , 9	100,3	107,4	+7,1	111,0	114,1	+2,8

^{1/} Preliminary.
* Revised.

Table 4 – Total of estimated sales of the manufacturing industry (R'000)

Month	I	1	1999			2000		20	01		:	2002		2	2003			2004			20	05	
											Value	of s	sales	3									
 Ј		31	728	425	34						48												
F	Ì	36	780	094	42	065	366	47	630	261	56	200	264	60	485	281	62	603	113	1/	65	184	336
M		39	575	843	46	300	045	52	194	339	59	871	135	62	637	848	67	981	939	1/	69	243	666
A		36	769	193	39	384	857			170			761				61			1/	68	107	017
M		39	561	905	44	639	157	50	164	812							66						
J		40					414			977			492				66						
J		40					012			263							67						
A		40					498			125							67						
S		43					234			793							* 70						
		45					801			253							* 73						
				113			122				71												
D		39	465	357	44	728	188	50	549	896	56	892	701	56	065	409	* 61	847	746				
Year	1	480	527	963	542	953	785	609	051	831	740	775	521	731	712		795						
											Season	ally	adju	sted	valı								
 Ј	1	38	428	829	41	487	838	48	794	307	57	173	741	62	635	523	63	452	195		66	824	415
F	Ì	37	823	286	43	191	383	48	917	379	57	629	034	62	026	839	64	271	275		66	963	242
M		37	953	035	44	340	873	50	100	779	57	691	373	60	623	094	66				67	465	673
A		38	819	375	41	642	193	48	549	273	63	817	103	61	518	066					70	895	889
M		39	566	131	44	449	883			782			743			222							
J		39					631			540			868			675	66						
J		40					585			931			440			594	67	072	900				
		40					778			709			803			721							
		41					001			241			686			575							
0		40					647			746							66						
	- 1	42	131			087	651	53	789	444	64	292	065	59	719	082	68	260	855				
N	- 1										62												

^{1/} Preliminary.
* Revised.

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

Month	I	1999	1	2000	I	2001	1	2002	200	03	1	2004	- 1	2005
J				+8,7		+18,9		+17,3		+9,6		+1	 , 4	+5,0
F				+14,4		+13,2		+18,0		+7,6		+3	, 5	+4,1
l M				+17,0		+12,7		+14,7		+4,6		+8	, 5	+1,9
A				+7,1		+16,5		+31,4		-2,8		+4	, 3	+11,4
l M				+12,8		+12,4		+24,7		-3,7		+10	, 8	
J				+17,5		+10,5		+17,5		-0,4		+9	, 3	
J				+9,3		+13,5		+25,5		-2,0		+9	, 4	
l A	1			+16,2		+5,3		+28,3		-3,9		+10	, 2	
l S				+12,5		+5,3		+30,1		-5,3		+12	, 7	
0				+11,8		+15,6		+21,0		-4,7		+8	, 7	
l N				+13,9		+11,9		+19,2		-7,1		+14	, 1	
l D				+13,3		+13,0		+12,5		-1,5		+10	, 3	
Year				+13,0		+12,2		+21,6		-1,2		+8	 ,7	

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)

Manufacturian	 !	*		ļ		Vá	alue	e of	sale	es			 Sea	sona	lly a	adjı	uste	d va	lue	of s	sales
Manufacturing divisions		^ Year		A	April		March 1/ Apri			pril	1/	April		1	March April					 	
 		2004	1	į į	2004		i 			200)5		i 	2004				200	5		
Food and beverages	150	794	199	11	871	949	13	100	882	12	941	392	12	288	608	:	12 9	52 4	13	388	706
Textiles, clothing,				1			_			_						_			_		
leather and footwear	41	695	164	3	293	306	3	555	011	3	506	839	3	358	300	3	387	039	3	592	688
Wood and wood products, paper, publishing and printing	1 70	228	139	1 5	376	947	6	065	760	5	827	789	1 5	769	009	5	91.8	891	6	232	808 I
Petroleum, chemical products,	1 70	220	133	1	370	241	0	005	700	J	027	105	1	105	005	J	210	0.71	0	232	000
	156	215	360	112	278	568	13	001	118	13	437	636	12	397	238	12	956	578	13	546	626
Glass and non-metallic mineral	ĺ			ĺ									ĺ								i
products	22	153	630	1	642	031	1	884	487	1	912	304	1	751	950	1	920	874	2	034	596 I
Basic iron and steel,																					- 1
non-ferrous metal products,	1																				1
metal products and machinery	169	868	082	12	860	802	15	447	023	14	518	872	13	447	177	14	627	134	15	182	032
,	20	602	189	1	593	935	1	742	457	1	627	705	1	665	158	1	669	911	1	693	305 I
Radio, television and	1																				1
communication apparatus and	1																				1
professional equipment	11	370	745	1	033	055		953	508		918	514	1	036	158		876	890		913	147
Motor vehicles, parts and	1																				1
accessories and	1																				1
	117	742	616	8	479	043	10	661	265	10	343	514	9	120	997	10	090	362	11	064	904
Furniture and other				1																	- 1
manufacturing divisions	35	056	571	2	721	412	2	832	155	3	072	452	2	871	554	3	065	525	3	247	076
Total	1795	726	695	61	151	048	69	243	666	68	107	017	 63	706	148	67	465	673	70	895	889

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

 Manufacturing	 									s			-	_			
divisions		Year 2004	-		pril 004		 Ap:	ril 05	 	Percentage change between	 Ma				.1	Pe ch be Ma	rcentage ange tween rch d ril
Food and beverages	150	794	199	11	871	949	12	941	392	+9,0	12	952	466	13	388	706	+3,4
leather and footwear	41	695	164	3	293	306	3	506	839	+6,5	3	387	039	3	592	688	+6,1
Wood and wood products, paper, publishing and printing Petroleum, chemical products,	 70	228	139	5	376	947	5	827	789	+8,4	 5	918	891	6	232	808	+5,3
rubber and plastic products Glass and non-metallic mineral	1156	215	360	112	278	568	13	437	636	+9,4	1 12	956	578	13	546	626	+4,6
products Basic iron and steel,	22	153	630	1	642	031	1	912	304	+16,5	1	920	874	2	034	596	+5,9
non-ferrous metal products, metal products and machinery Electrical machinery Radio, television and																	+3,8 +1,4
communication apparatus and professional equipment Motor vehicles, parts and	 11 	370	745	1 1	033	055		918	514	-11,1	 	876	890		913	147	+4,1
accessories and other transport equipment Furniture and other	 117 	742	616	 8 	479	043	10	343	514	+22,0	 10 	090	362	11	064	904	+9 , 7
manufacturing divisions	35	056	571	2	721	412	3	072	452	+12,9	3	065	525	3	247	076	+5,9
Total	795	726	695	61	151	048	68	107	017	+11,4	67	465	673	70	895	889	+5,1

^{1/} Preliminary.
* Revised.

Table 7 - Percentage change between the current quarter and the corresponding quarter of the previous year in the physical volume of manufacturing production and sales by manufacturing division

Manufacturing		Indi	ces (base	2000=100)	Value of sales (R'000)									
	 	February	to April 2005 	Annual percen- tage	February to April 2004	to April 2005	Annual percentage change between February to April 2004 and February to April 2005							
Food and beverages Textiles, clothing,	 16,4 	İ	,	+10,3	İ		,							
leather and footwear Wood and wood products, paper, publishing and printing	5,4 11,0	İ	101,7	+1,7	10 444 895 16 804 259		•							
Petroleum, chemical products, rubber and plastic products	 22 , 5	ĺ	108,0	,	37 481 681		•							
Glass and non-metallic mineral products Basic iron and steel,	 3,9 	 105,3 	111,5	+5,9	 5 101 247 	5 603 999	+9,9							
non-ferrous metal products, metal products and machinery Electrical machinery Radio, television and		112,4 97,2	113,4 98,3		 40 698 250 4 990 840		+7,5 +0,3							
communication apparatus and professional equipment Motor vehicles, parts and accessories and	1,3	 120,6 	108,4	-10,1	 3 164 259 	2 867 746	-9,4							
other transport equipment Furniture and other	 8 , 6 	I	120,0		 28 585 110 		•							
manufacturing divisions	5,8	91,7 	97,4	+6,2	8 510 943 	9 100 786	+6,9							
Total	100,0	106,0	109,6	+3,4	191 736 100	202 535 019	+5,6							

Explanatory notes

1

6

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 estimated and seasonally adjusted figures are presented.
- 3 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.
- 4 As indicated earlier, Stats SA developed a new business register, based on units registered for value-added tax (VAT) and income tax, obtained from the South African Revenue Service (SARS), which replaced the previous business register.

Scope of the survey

- 5 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

7 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 2005 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 2005).

Survey methodology and design

The survey is conducted monthly. Questionnaires are sent to a sample of 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 2 994 enterprises, which was drawn in September 2004 from a population then of 41 009 manufacturing enterprises. Each manufacturing division is divided into four size groups. The sample is drawn at the SIC three-digit level. All large enterprises (size group one), 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 tobacco, 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. 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 late submission of data to Stats SA, or to respondents reporting revisions or corrections to their figures. Preliminary figures are

indicated in the relevant tables. Data are edited at the enterprise level.

Related publications

19 Users may also wish to refer to the following publications available from Stats SA -

- Bulletin of Statistics issued quarterly.
- SA 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 Gross Domestic Product

ISIC International Standard Industrial Classification

m Million

SIC Standard Industrial Classification of all Economic Activities

SARS South African Revenue Service

Stats SA Statistics South Africa
VAT Value added tax
1/ Preliminary figures
• Revised figures

Technical notes

Neyman optimal allocation

Before drawing samples in each of the surveys the population of enterprises on the BSF was stratified. Strata were formed using a combination of Standard Industrial Classification variable and the measure of size variable for enterprises. The Neyman optimal allocation formula used to allocate samples to each stratum is given by a formula below.

$$\begin{array}{ccc} n_h & = & & & \\ & & & \\ \hline & & & \\ \hline & & & \\ \hline & & & \\ \hline N_h S_h & & \\ \hline \end{array}$$

where N_h and S_h are the stratum population size and the stratum variance, respectively.

Class limits: Manufacturing

Enterprise size	Lower limits	Upper limits
Very small	0	5 000 000
Small	5 000 001	13 000 000
Medium	13 000 001	51 000 000
Large	51 000 001	

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.

17 P3041.2

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

divisions	Weights according	Weights according to the 2001 large sample survey of the manufacturing industry 2001 - 2005
Food and beverages	15,3	16,4
Textiles, clothing, leather and footwear	7,8	5,4
Wood and wood products, paper, publishing and printing	11,4	11,0
Petroleum, chemical products, rubber and plastic products	19,3	22,5
Glass and non-metallic mineral products Basic iron and steel,	 4,5	3,9
non-ferrous metal products, metal products and machinery	 23 , 6	22,4
Electrical machinery Radio, television and	3,4	2,7
communication apparatus, professional equipment Motor vehicles, parts and	 1,5 	1,3
accessories and other transport equipment	9,1	8,6
Furniture and other manufacturing divisions	4,1	5,8
Total	100,0	100,0

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.

Stats SA has copyright on this publication. Users may apply the information as they wish, provided that they acknowledge Stats SA as the source of the basic data wherever they process, apply, utilise, publish or distribute the data; and also that they specify that the relevant application and analysis (where applicable) result from their own processing of the data.

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
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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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