

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

# Manufacturing: Production and sales March 2005

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

Estimates	March 2005	% change between March 2004 and March 2005	% change between January to March 2004 and January to March 2005
Physical volume of manufacturing production index (2000=100)	115,4	+1,2	+2,4
Total value of sales of manufactured products			
(R million)	70 031	+3,0	+4,1

Seasonally adjusted estimates	March 2005	% change between February and March 2005	% change between October to December 2004 and January to March 2005
Physical volume of manufacturing production index (2000=100)	111,1	+0,9	-1,0
Total value of sales of manufactured products			
(R million)	67 669	+1,3	-0,6

## Key findings regarding manufacturing production and sales for March 2005

## Manufacturing production decreases

The estimated manufacturing production for the first quarter of 2005 decreased by 1,0%, after seasonal adjustment, compared with the fourth quarter of 2004. Lower production was reported by six of the ten manufacturing divisions.

The major contributor to the seasonally adjusted decrease of 1,0% in total manufacturing production for the first quarter of 2005 compared with the fourth quarter of 2004 was the basic iron and steel, non-ferrous metal products, metal products and machinery division (contributing -0,8 of a percentage point to total manufacturing production), followed by petroleum, chemical products, rubber and plastic products division (contributing -0,4 of a percentage point) and wood and wood products, paper, publishing and printing division (contributing -0,2 of a percentage point). However, these decreases were counteracted by increases reported by the motor vehicles, parts and accessories and other transport equipment division (contributing +0,3 of a percentage point) and food and beverages division (contributing +0,1 of a percentage point) (see table B). The exceptionally high production figures reported for December 2004 contributed to the decrease between the fourth quarter of 2004 and the first quarter of 2005.

Figure 1 shows the seasonally adjusted and trend series for the volume index of manufacturing production between January 1999 and March 2005. The trend series has been rising since mid-2003 to September 2004, declining slightly up to December 2004, levels out in 2005.

Figure 1 - Index of the physical volume of manufacturing production

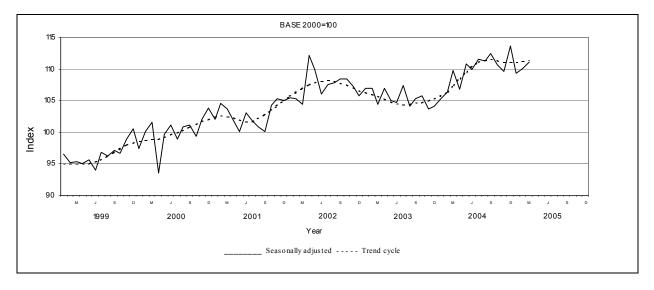


Table B - Contribution of manufacturing divisions to total manufacturing production (Base 2000=100)

Manufacturing divisions	contribution    to the total    manufacturing    production    using the    weights	seasonally adjusted production index for October to December 2004	adjusted     index for     January	change of January to	Contribution   (percentage   points) to   the seasonally   adjusted   quarterly   percentage   change in total   manufacturing   production     1/
Food and beverages	16,4	114,8	115,3	+0,4	+0,1
Textiles, clothing,   leather and footwear	   5,4	99,6	100,2	+0,6	+0,0
Wood and wood products, paper,	]	55,0	100,2	10,0	10,01
publishing and printing	11,0	106,3	104,5	-1,7	-0,2
Petroleum, chemical products,	I				1
rubber and plastic products	22,5	108,3	106,6	-1,6	-0,4
Glass and non-metallic mineral	   3,9	112,4	112,3	-0,1	-0,0
Basic iron and steel,	1 3,9	112,4	112,3	-0,1	-0,0
non-ferrous metal products,	i İ				i
metal products and machinery	22,4	117,0	113,0	-3,4	-0,8
Electrical machinery	2,7	96,8	98,1	+1,3	+0,0
Radio, television and	1				1
communication apparatus and   professional equipment	1,3	104,8	97,2	-7,3	-0,1
Motor vehicles, parts and	1 1,3	104,8	91,2	-7,3	-0,1
accessories and	i I				
other transport equipment	8,6	117,9	122,6	+4,0	+0,3
Furniture and other	İ				ĺ
manufacturing divisions	5,8	109,2	107,0	-2,0	-0,1
   Total	100,0	111,3	110,2	-1,0	-1,0

<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 decrease

The estimated total value of sales of manufactured products at current prices for the first quarter of 2005 decreased by 0,6% (-R1 254 million), after seasonal adjustment, compared with the fourth quarter of 2004. Lower 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 March 2005 was 4,1% higher than for the three months ended March 2004 (see table D).

The seasonally adjusted decrease of 0,6% in the total value of sales of manufactured products at current prices for the first quarter of 2005 was mainly due to large decreases reported for petroleum, chemical products, rubber and plastic products (-4,2% or -R1 698 million) and food and beverages (-1,3% or -R514 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	Seaso  adjus  sales  Octob  Decer     	sted s per t	 	Seaso adjus sales Janua March	sted s ary 1	±0	Percentage   Change   Detween   October to   December 2004   and   January to   March 2005	Difference   seasonally   adjusted   sales of   manufactur   divisions   between   October to   December 2   and   January to   March 2005	ing   
	   I	R'000	)	R'	000			R'000	
Food and beverages	38	617	821	38	103	428	-1,3	-514	 393
Textiles, clothing,   leather and footwear	   10	424	960	10	566	463	+1,4	141	503 I
Wood and wood products, paper,							,		i
publishing and printing   Petroleum, chemical products,		733	519	17	571	417	-0,9	-162	102
rubber and plastic products		099	801	38	402	107	-4,2	-1 697	694
Glass and non-metallic mineral   products		c c o	025	_	CE0	379	-0.0		 646
Basic iron and steel,	> 	660	025	5	659	3/9	-0,0	_	040
non-ferrous metal products,	İ								i
metal products and machinery   Electrical machinery			815 472			595 865	+1,5 -4,6	642 -239	
Radio, television and	3	210	4/2	4	970	000	-4,0	-239	007
communication apparatus and	İ								i
professional equipment	2	776	630	2	608	683	-6,0	-167	947
Motor vehicles, parts and	 								- 1
other transport equipment	30	015	081	30	458	926	+1,5	443	845
Furniture and other	1						_		
manufacturing divisions	9	027	439	9	327	900	+3,3	300	461
Total	202	659	563	201	405	765	-0,6	-1 253	798

The major contributors to the increase of 4,1% in sales of manufactured products at current prices for the first quarter of 2005 compared with the first quarter of 2004 were basic iron and steel, non-ferrous metal products, metal products and machinery (+1,6 percentage points or +R2 924 million), motor vehicles, parts and accessories and other transport equipment (+1,1 percentage points or +R2 034 million) and food and beverages (+0,7 of a percentage point or +R1 286 million (see table D).

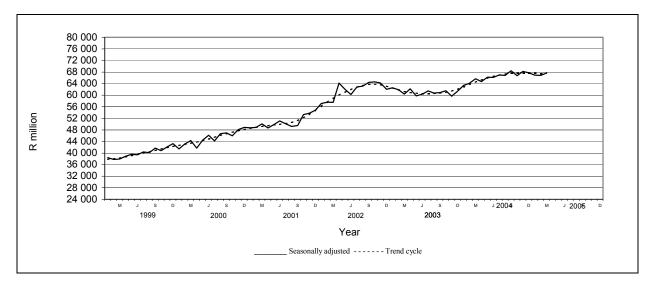
Table D - Contribution of the manufacturing divisions to total value of sales of manufactured products

Manufacturing divisions  I I	contribution  to total value  of sales of  manufactured  products  January to	change  between  January to  March 2004  and  January to  March 2005 	to the  percentage  change in  the total  value of	in sales of   manufacturing   divisions   between   January to   March 2004   and   January to   March 2005
	 	 	 	R'000
Food and beverages   Textiles, clothing,	18,9	+3,7	+0,7	1 285 713
leather and footwear   Wood and wood products, paper,	5 <b>,</b> 2	+0,4	-0,0	33 887
publishing and printing   Petroleum, chemical products,	9,0	+1,0	+0,1	166 123   
rubber and plastic products   Glass and non-metallic mineral	19,6	+1,5	+0,3	551 959   
products   Basic iron and steel,   non-ferrous metal products,	2,6   	+5,5	+0,1	268 769     
metal products and machinery   Electrical machinery   Radio, television and   communication apparatus and	21,0   2,5 	+7,6 -0,0	+1,6 -0,0	2 923 778   -2 043   
professional equipment   Motor vehicles, parts and   accessories and	1,6   1,6	-9,7	-0,2	-288 435    -288 435
other transport equipment   Furniture and other	15,1	+7,3	+1,1	2 034 078
manufacturing divisions	4,3	+6,1	+0,3	489 051
Total	100,0	+4,1	+4,1	7 462 880

<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 in 2004, divided by 100.

Figure 2 shows the seasonally adjusted and trend series for sales of manufactured products between January 1999 and March 2005. After peaking in September 2002, the series declined until May 2003, before resuming its upward movement and has been leveling off since December 2004.

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
	April 2005	9 June 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	1999	2000	2001	2002	2003	2004	1/ 2005		
				Indices					
J	83 <b>,</b> 6	85 <b>,</b> 2	91,1	93 <b>,</b> 7	94,4	93,1	96 <b>,</b> 1		
F	93,7	98,7	102,7	103,6	104,3	103,6	106,7		
M	97,9	104,8	106,8	108,2	108,4	114,0	115,4		
Α Ι	90,7	89,0	95,3	104,4	100,0	100,3			
M	95,9	99,9	100,2	110,3	105,6	111,5			
J	94,8	102,1	104,0	106,7	105,3	110,5			
J	98,3	100,1	102,8	108,8	108,7	112,9			
Α Ι	97,7	102,5	102,3	109,8	106,4	113,6			
S	100,9	104,8	103,1	111,4	108,6	* 115,9			
0	107,3	109,8	114,9	119,6	116,7	* 122,5			
N	109,9	113,6	117,6	119,8	115,1	* 122,2			
D	86,3	89,5	92,5	92,7	91,4	* 98,9			
Year	96,4	100,0	102,8	107,4	105,4	109,9			
			Sea	asonally adjust	ted indices				
J	95 <b>,</b> 6	97,1	102,6	105,8	106,9	105,3	109,3		
F	94,5	99,7	104,8	105,6	107,0	106,3	110,1		
M	94,4	100,9	103,7	104,4	104,4	109,8	111,1		
Α	96,7	94,8	101,6	112,0	107,0	106,8			
M	96,3	100,0	100,1	109,9	105,1	110,8			
J	94,1	101,3	103,1	105,9	104,7	110,0			
J	97,3	99,1	101,7	107,6	107,4	111,6			
Α Ι	96,8	101,2	100,9	107,8	104,2	111,3			
S	97,1	101,0	100,1	108,3	105,4	112,4			
0	97,2	99,5	104,2	108,4	105,7	110,7			
N	98,1	101,5	105,3	107,4	103,7	109,7	. 7		
D I	99,7	103,3	105,2	105,8	104,1	113,6			

<sup>1/</sup> Preliminary.

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

1	Month	1999	- 1	2000	2001	1	2002	-	2003	1	2004	- 1	2005
	J			+1,9	 +6,9		+2,9	)	+0,7		-1,	4	+3,2
	F			+5,3	+4,1		+0,9	)	+0,7		-0,	7	+3,0
1	M			+7,0	+1,9		+1,3	3	+0,2		+5,	2	+1,2
	Α			-1,9	+7,1		+9,5	,	-4,2		+0,	3	
	M			+4,2	+0,3		+10,1		-4,3		+5,	6	
-1	J			+7,7	+1,9		+2,6	,	-1,3		+4,	9	
	J			+1,8	+2,7		+5,8	}	-0,1		+3,	9	
	Α			+4,9	-0,2		+7,3	}	-3,1		+6,	8	
1	S			+3,9	-1,6		+8,1		-2,5		+6,	7	
1	0			+2,3	+4,6		+4,1		-2,4		+5,	0	
1	N			+3,4	+3,5		+1,9	)	-3,9		+6,	2	
1	D		•	+3,7	+3,4		+0,2	:	-1,4		+8,	2	
1 -	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.

<sup>\*</sup> Revised.

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

Base 2000 = 100

   Manufacturing	 			Indices	 	Seasonal:	ly adjuste	d indices
	  Weights 	1 1	March	1/  February	1/     March	March	   February	
	 	2004	2004	2	005	2004	200	)5
Food and beverages	16,4 	111,5	113,0	109,5	121,1	112,4	119,0	120,8
leather and footwear   Wood and wood products, paper,	5,4	100,0  	107,4	102,1	105,6	100,3	101,6	99,0
publishing and printing   Petroleum, chemical products,	i	103,8  		100,5	108,7	101,0	104,7	105,2
rubber and plastic products   Glass and non-metallic mineral	i	110 <b>,</b> 5  		102,0	112 <b>,</b> 7	111,1	105,8	108,8
products   Basic iron and steel,   non-ferrous metal products,	3 <b>,</b> 9   	113 <b>,</b> 2          	117,1	109,7	113,6     	117,1	117,9	113,4
metal products and machinery   Electrical machinery   Radio, television and		114,6    98,3  	122,8 101,4	107,2 101,2	125,5   104,5	113,8 97,9	109,1 100,8	115,8   100,7
communication apparatus and   professional equipment   Motor vehicles, parts and   accessories and	   1,3 	  109 <b>,</b> 5  	120,2	109,8	107,1   	110,9	98,7	98 <b>,</b> 8
other transport equipment Furniture and other	İ	i i	116,0	122,6	123,0	111,1	121,5	118,8
manufacturing divisions	i	101,0    109,9	102,8  114,0	107,7	i	106,1	109,0  110,1	91,6     111,1

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

Manufacturing	   	 	Iı	ndices		Seasonall	Ly adjust	ed indices
	Weights             	Year	March 2004	   March   2005     			   March   2005	Percentage    difference    between    February    and    March    2005
Food and beverages	16,4	111 <b>,</b> 5	113,0	121,1	+7,2	119,0	120,8	+1,5
Textiles, clothing,	l .							!
leather and footwear   Wood and wood products, paper,	5,4	100,0	107,4	105,6	-1,7	101,6	99,0	-2,6
publishing and printing	I 11.0	  103,8	104,7	108,7	+3,8	104,7	105,2	+0,5
Petroleum, chemical products,	11,0	100,01	201,	100,	. 5 / 5	101,	100/2	,
rubber and plastic products	22,5	110,5	114,9	112,7	-1,9	105,8	108,8	+2,8
Glass and non-metallic mineral								!
products	3,9	113,2	117,1	113,6	-3,0	117,9	113,4	-3,8
Basic iron and steel,   non-ferrous metal products,	 							l I
metal products and machinery	22,4	  114,6	122,8	125,5	+2,2	109,1	115,8	+6,1
Electrical machinery	2,7	98,3	101,4	104,5	+3,1	100,8	100,7	-0,1
Radio, television and		l I						1
communication apparatus and			400.0	405.4	40.0			10.4
professional equipment   Motor vehicles, parts and	1,3	109,5	120,2	107,1	-10,9	98,7	98,8	+0,1
accessories and	l I	 						I I
other transport equipment	I 8.6	  115,5	116,0	123,0	+6,0	121,5	118,8	-2,2
Furniture and other	,.	i, - i	,	,	, .	,	, -	_,_
manufacturing divisions	5,8	101,0	102,8	89,0	-13,4	109,0	91,6	-16,0
Total	100,0	109 <b>,</b> 9	114,0	115,4	+1,2	110,1	111,1	+0,9

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

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

Month	1	1	999	 	2	2000	 	20	01		:	2002		   :	2003		l	2004		1/	2(	005	
   											Value												
   J	1	31	728	425	34	497					48	138	526	52									448
F	i	36	780	094	42	065	366	47	630	261	56	200	264	60	485	281	62	603	113		65	221	252
l M	ĺ	39	575	843	46	300	045	52	194	339	59	871	135	62	637	848	67	981	939		70	030	845
l A		36	769	193	39	384	857	45	883	170	60	294	761	58	615	159	61	151	048				
M		39	561	905	44	639	157	50	164	812	62	579	978	60	277	805	66	779	109				
J		40	068	157	47	091	414	52	019	977							66						
			275				012			263							67						
A		40	781	001	47	401	498			125							67						
			163				234			793							* 70						
			331				801			253							* 73						
				113			122				71												
D		39	465	357	44	728	188	50	549	896	56	892	701	56	065	409	* 61	847	446				
   Year	1	480	527	963	542	953	785	609	051	831	740	775	521	731	712	457	795	720	169				
											Season	ally	adjı	ısted	valı								
   Ј	1	38	420	936	41	474	860	48	773	193	57	136	763	62	579								
l F	i	37	818	533			658				57												607
l M	i	37	954	613	44	327	249	50	059	863	57	556	586	60	369	550	65	703	357		67	669	042
A	İ	38	871	688	41	718	875	48	691	340	64	180	463	62	256	060	64	716	026				
M		39	562	178	44	450	542	49	834	494	62	061	302	59	779	725	66	201	718				
J		39	390	665	46	187	756	51	113	338	60	208	098	60	297	735	66	170	539				
J		40	374	575	44	161	229	50	114	020	62	789	506	61	441	478	67	011	003				
A		40	120	578	46	699	678	49	174	791	63	085	661	60	677	821	66	817	338				
			679				732			682				60				431					
0		40	808	909			021			505							66						
l N			128				908				64												
l D		43	241	847	48	880	212	54	801	195	62	033	447	61	377	254	67	693	401				

<sup>1/</sup> 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		2003	1	2004	1	2005
   J				+8,7		+18,9		+17,	3	+9,6		+1,	. 4	+5,2
l F				+14,4		+13,2		+18,	0	+7,6		+3,	. 5	+4,2
M				+17,0		+12,7		+14,	7	+4,6		+8,	. 5	+3,0
A				+7,1		+16,5		+31,	4	-2,8		+4,	. 3	
l M				+12,8		+12,4		+24,	7	-3,7		+10,	. 8	
l J				+17,5		+10,5		+17,	5	-0,4		+9,	. 3	
J				+9,3		+13,5		+25,	5	-2,0		+9,	. 4	
l A				+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	<b>-1,</b> 2		+8,	- <b></b> . 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)

		*		 !		Vá	alue	e of	sale	es					_	-			lue	of s	sales
Manufacturing divisions		1		March *		February 1/  March 1/					   March										
		2004	1	:	2004				20	005			i	2004				200	5		 
Food and beverages   Textiles, clothing,	150	697	551	12	292	772	12	218	504	13	100	663	1 12	146	943	12	830	277	12	942	461
	41	684	404	3	749	413	3	462	112	3	635	695	3	532	187	3	528	347	3	442	822
publishing and printing   Petroleum, chemical products,	70	201	021	5	943	125	5	487	393	6	138	241	5	741	999	5	808	739	5	954	881
	156	270	988	12	932	189	12	480	858	13	089	168	1 12	823	211	12	848	547	12	989	329
products   Basic iron and steel,	22	153	630	1	808	637	1	825	279	1	903	780	1	821	027	1	956	426	1	928	973
non-ferrous metal products,	1	702	C01		262	026	1 2	640	1 5 1	1 -	0.5.0	420		010	F 2 F	1.4	244	0.65	1.4	721	124
			189									927		666			667			690	
Radio, television and   communication apparatus and	1																				
Motor vehicles, parts and	11	370	745	1	047	347		995	310		937	318	 	956	611		878	254		858	721   
	  117	883	616	  10	274	412	10	287	486	10	776	493	   9	534	371	9	993	149	10	069	512
Furniture and other   manufacturing divisions	   35	072	334	   2	916	467	3	159	182	2	817	128	   3	268	255	3	062	785	3	060	952
Total	  795	720	169	67	981	939	65	221	252	70	030	845	65	703	357	66	817	607	67	669	042

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

			!				Value of sales									Seasonally adjusted value of sales								
Manufacturing   divisions		Year			arch 004		Mai 200		 	Percentage change between March 2004 and March 2005	     Feb   200		 	Mar 200		cl  be  Fe  ar	ercentage   hange   etween   ebruary   nd   arch   005							
Food and beverages	1150	697	551	12	292	772	13	100	663	+6,6	12	830	277	12	942	461	+0,9							
	41	684	404	3	749	413	3	635	695	-3,0	3	528	347	3	442	822	-2,4							
	70	201	021	5	943	125	6	138	241	+3,3	5	808	739	5	954	881	+2,5							
	156	270	988	12	932	189	13	089	168	+1,2	1 12	848	547	12	989	329	+1,1							
products   Basic iron and steel,   non-ferrous metal products,		153	630	1 1	808	637	1	903	780	+5,3	1	956	426	1	928	973	-1,4							
metal products and machinery	169   20																- /							
	111	370	745	1   	047	347		937	318	.,.	[	878	254		858	721	į							
Furniture and other	117     35			İ				776 817		, -	İ		149 785			512 952	i							
	  795																							

<sup>1/</sup> 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			ces (base	2000=100)	V	alue	of	sales	(R'0	00)	
	Weights	  January  to  March	1	Annual  percen-  tage  change	to  Mare  200-       	ch		  Janua:  to  March  2005           	-		Annual percentage change between January to March 2004 and January to March 2005
Food and beverages	16,4	100,4	108,8	+8,4	34	840	263	36	125	976	+3,7
Textiles, clothing,		l			1						
leather and footwear   Wood and wood products, paper,	5,4	93,4	93,4	-0,0	9 	571	107	9	604	994	+0,4
publishing and printing   Petroleum, chemical products,	11,0	98,2	100,8	+2,6	16	618	619	16	784	742	+1,0
rubber and plastic products	22,5	108,2	105,0	-3,0	   36	135	632	36	687	591	+1,5
products   Basic iron and steel,   non-ferrous metal products,	3,9	102,9	103,7	+0,8	4 	866	826	5	135	595	+5,5
metal products and machinery	22,4	110,5	110,1	-0.4	1 38 1	669	520	// 1	503	298	+7,6
Electrical machinery   Radio, television and   communication apparatus and	2,7		86,9							669	-0,0
professional equipment   Motor vehicles, parts and	1,3	114,3	100,7	-11,9	2   2	976	360	2	687	925	-9,7
accessories and   other transport equipment   Furniture and other	8,6	   105,8 	116,0	+9,6	   27 	790	600	29	824	678	+7,3
manufacturing divisions	5,8	91,7	96,8	+5,6	7	960	026	8	449	077	+6,1
Total	100,0	103,8	105,5	+1,6	1184	108	665	191	571	545	+4,1

## **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 <a href="https://www.statssa.gov.za/publications/publicationsearch.asp">www.statssa.gov.za/publications/publicationsearch.asp</a>.
- 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.

- 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.

$$n_h \ = \ \frac{N_h S_h}{\sum N_h S_h}$$

where  $N_{\text{h}}$  and  $S_{\text{h}}$  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.

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> 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 - 2005
Food and beverages   Textiles, clothing,	15,3	16,4
leather and footwear   Wood and wood products, paper,	7,8	5,4
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
<pre>  non-ferrous metal products,   metal products and machinery   Electrical machinery</pre>	23,6   3,4	22,4   2,7
Radio, television and   communication apparatus,   professional equipment   Motor vehicles, parts and	 	1,3
accessories and   other transport equipment   Furniture and other   manufacturing divisions	9,1	8,6       
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:

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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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