

# **Manufacturing: Production and sales**

## **Preliminary: December 2005**

**Embargoed until:  
9 February 2006  
13:00**

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

<b>Estimates</b>	<b>December 2005</b>	<b>% change between December 2004 and December 2005</b>	<b>% change between October to December 2004 and October to December 2005</b>	<b>% change between January to December 2004 and January to December 2005</b>
Physical volume of manufacturing production index (2000=100)	105,1	+6,2	+3,4	+3,5
Total value of sales of manufactured products (R million)	68 369	+10,5	+6,7	+6,4

<b>Seasonally adjusted estimates</b>	<b>December 2005</b>	<b>% change between November and December 2005</b>	<b>% change between July to September 2005 and October to December 2005</b>
Physical volume of manufacturing production index (2000=100)	120,1	+4,3	+0,1
Total value of sales of manufactured products (R million)	74 784	+3,5	+0,4

**Key findings regarding manufacturing production and sales for the year 2005**

**Manufacturing production increases**

*Manufacturing production for 2005 reflected an increase of 3,5% compared with 2004. Higher production was reported by seven of the ten manufacturing divisions.*

The major contributors to the annual increase of 3,5% were the food and beverages division and the motor vehicles, parts and accessories and other transport equipment division (each contributing +1,0 percentage point to total manufacturing production), followed by the wood and wood products, paper, publishing and printing division (contributing +0,5 of a percentage point), the petroleum, chemical products, rubber and plastic products division (contributing +0,5 of a percentage point), the ‘other’ manufacturing divisions (contributing +0,4 of a percentage point) and the glass and non-metallic mineral products division (contributing +0,3 of a percentage point) (see table B).

**Sales of manufactured products increase**

*The total value of sales of manufactured products at current prices for 2005 increased by 6,4% (+R51 162 million) compared with 2004. Increases in manufacturing sales were reported by nine of the ten manufacturing divisions.*

The largest increases were reported by motor vehicles, parts and accessories and other transport equipment (+14,7% or +R17 689 million), the ‘other’ manufacturing divisions (+13,4% or +R4 761 million), the wood and wood products, paper, publishing and printing division (+7,2% or +R5 155 million), the petroleum, chemical products, rubber and plastic products (+7,1% or +R11 253 million) and the food and beverages division (+3,6% or +R5 335 million) (see table B).

**Table B – Annual percentage change in the indices of the physical volume of manufacturing production and sales by manufacturing divisions and major groups**

Manufacturing divisions and major groups	Weights	Indices (base 2000=100)				Value of sales (R million)			
		Jan. to Dec. 2004	Jan. to Dec. 2005	Annual percentage change between 2004 and 2005	Contribution (percentage points) 1/	Jan. to Dec. 2004	Jan. to Dec. 2005	Annual percentage change between 2004 and 2005	Difference in sales between 2004 and 2005
Food and beverages	16,4	111,8	118,9	+6,4	+1,0	148 167	153 502	+3,6	+5 335
Meat, fish, fruit etc.	2,6	123,8	127,7	+3,2	+0,1	34 067	35 854	+5,2	+1 787
Dairy products	1,1	100,6	103,3	+2,7	+0,0	12 541	12 979	+3,5	+438
Grain mill products	1,5	118,3	123,6	+4,5	+0,1	26 922	24 949	-7,3	-1 973
Other food products	6,8	96,3	107,7	+11,8	+0,8	38 547	40 534	+5,2	+1 987
Beverages	4,3	129,5	133,9	+3,4	+0,1	36 090	39 186	+8,6	+3 096
Textiles, clothing, leather and footwear	5,4	100,2	98,0	-2,2	-0,1	39 373	38 821	-1,4	-552
Textiles	1,2	92,6	81,3	-12,2	-0,1	7 547	6 304	-16,5	-1 243
Other textile products	1,2	109,6	116,3	+6,1	+0,1	9 972	10 886	+9,2	+914
Knitted, crocheted articles	0,3	100,3	77,4	-22,8	-0,1	2 194	1 689	-23,0	-505
Wearing apparel	2,0	104,6	104,5	-0,1	-0,0	12 595	12 863	+2,1	+268
Leather and leather products	0,3	98,0	100,0	+2,0	-0,0	4 401	4 418	+0,4	+17
Footwear	0,4	78,2	79,6	+1,8	-0,0	2 665	2 661	-0,1	-4
Wood and wood products, paper, publishing and printing	11,0	104,0	108,6	+4,4	+0,5	71 605	76 760	+7,2	+5 155
Sawmilling and planing of wood	0,7	105,8	111,5	+5,4	+0,0	3 399	4 019	+18,2	+620
Products of wood	1,0	117,8	123,6	+4,9	+0,0	10 561	11 868	+12,4	+1 307
Paper and paper products	4,8	102,5	103,7	+1,2	+0,1	32 762	33 215	+1,4	+453
Publishing	2,4	98,4	107,5	+9,2	+0,2	10 700	12 136	+13,4	+1 436
Printing, recorded media	2,1	106,8	112,9	+5,7	+0,1	14 184	15 522	+9,4	+1 338
Petroleum, chemical products, rubber and plastic products	22,5	110,9	113,2	+2,1	+0,5	158 936	170 189	+7,1	+11 253
Coke, petroleum products and nuclear fuel	9,1	105,2	103,1	-2,0	-0,2	52 795	57 693	+9,3	+4 898
Basic chemicals	4,0	102,7	113,6	+10,6	+0,4	31 060	35 006	+12,7	+3 946
Other chemical products	5,4	120,1	125,6	+4,6	+0,2	44 457	46 269	+4,1	+1 812
Rubber products	1,1	102,5	93,7	-8,6	-0,1	9 188	8 537	-7,1	-651
Plastic products	3,0	126,2	128,9	+2,1	+0,1	21 437	22 684	+5,8	+1 247
Glass and non-metallic mineral products	3,9	113,2	123,2	+8,8	+0,3	22 892	25 815	+12,8	+2 923
Glass and glass products	1,1	122,0	137,9	+13,0	+0,1	4 010	4 545	+13,3	+535
Non-metallic mineral products	2,9	110,0	117,7	+7,0	+0,2	18 882	21 270	+12,6	+2 388
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,4	114,0	113,3	-0,6	-0,1	168 940	172 060	+1,8	+3 120
Basic iron and steel products	5,5	112,7	103,7	-8,0	-0,5	60 105	57 834	-3,8	-2 271
Non-ferrous metal products	4,7	106,1	109,8	+3,5	+0,2	22 349	24 067	+7,7	+1 718
Structural metal products	1,3	125,3	115,7	-7,7	-0,1	13 225	13 148	-0,6	-77
Other fabricated metal products	4,2	113,8	112,4	-1,2	-0,1	27 050	28 237	+4,4	+1 187
General purpose machinery	2,4	114,5	114,8	+0,3	+0,0	17 627	17 855	+1,3	+228
Special purpose machinery	3,2	124,8	132,4	+6,1	+0,2	19 468	20 811	+6,9	+1 343
Household appliances	1,2	108,3	120,4	+11,2	+0,1	9 116	10 107	+10,9	+991
Electrical machinery	2,7	98,5	97,5	-1,0	-0,0	19 285	20 195	+4,7	+910
Radio, television and communication apparatus and professional equipment	1,3	111,6	113,4	+1,6	+0,0	10 977	11 545	+5,2	+568
Radio, television and communication apparatus	0,7	82,4	92,8	+12,6	+0,1	5 457	6 153	+12,7	+696
Professional equipment	0,6	141,3	134,2	-5,0	-0,0	5 520	5 393	-2,3	-127
Motor vehicles, parts and accessories and other transport equipment	8,6	115,5	128,3	+11,1	+1,0	120 129	137 818	+14,7	+17 689
Motor vehicles	4,1	110,1	129,1	+17,3	+0,7	62 474	74 381	+19,1	+11 907
Bodies for motor vehicles, trailers and semi-trailers	0,4	131,2	155,0	+18,1	+0,1	5 059	6 147	+21,5	+1 088
Parts and accessories	3,1	127,4	135,6	+6,4	+0,2	43 963	48 580	+10,5	+4 617
Other transport equipment	1,0	94,3	91,8	-2,7	-0,0	8 633	8 709	+0,9	+76
Other manufacturing divisions	5,8	100,9	108,0	+7,0	+0,4	35 645	40 406	+13,4	+4 761
Furniture	1,6	120,1	132,7	+10,5	+0,2	9 172	10 315	+12,5	+1 143
Other manufacturing groups	4,2	93,7	98,6	+5,2	+0,2	26 473	30 091	+13,7	+3 618
	100,0	110,0	113,8	+3,5	+3,5	795 949	847 111	+6,4	+51 162

1/ The contribution (percentage points) is calculated by multiplying the percentage change of each manufacturing group or division with the weight of the group or division, divided by 100.

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

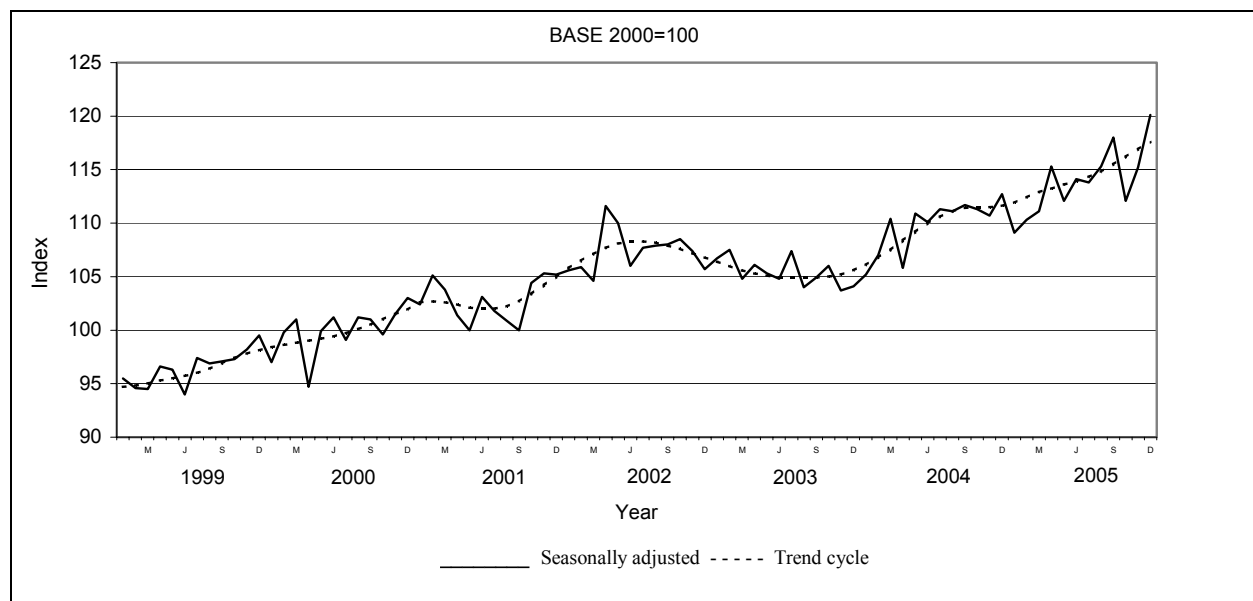
### Manufacturing production increases

*The estimated manufacturing production for the fourth quarter of 2005 increased by 0,1% after seasonal adjustment, compared with the third quarter of 2005. Higher production was reported by four of the ten manufacturing divisions.*

The major contributors to the seasonally adjusted increase of 0,1% in total manufacturing production between the third and fourth quarter of 2005 were the basic iron and steel, non-ferrous metal products, metal products and machinery division (contributing +1,2 percentage points), furniture and ‘other’ manufacturing divisions (contributing +0,3 of a percentage point), the glass and non-metallic mineral products division (contributing +0,2 of a percentage point) and the motor vehicles, parts and accessories and other transport equipment division (contributing +0,2 of a percentage point). However, these increases were counteracted to a large extent by decreases reported by the petroleum, chemical products, rubber and plastic products division (contributing -1,4 percentage points), followed by the food and beverages division (contributing -0,2 of a percentage point) and the textiles, clothing, leather and footwear division (contributing -0,1 of a percentage point) (see table C).

Figure 1 shows the seasonally adjusted and trend series for the volume index of manufacturing production between January 1999 and December 2005. The trend series has been rising since mid-2003 to September 2004, moving sideways up to December 2004 and resuming its upward trend in 2005.

**Figure 1 – Index of the physical volume of manufacturing production**



**Table C - Contribution of manufacturing divisions and major groups to total manufacturing production (Base 2000=100)**

Manufacturing divisions and major groups	Percentage contribution to the total manufacturing production using the weights according to large sample survey of the manufacturing industry, 2001	Average seasonally adjusted production index for July to September 2005	Average seasonally adjusted production index for October to December 2005	Quarterly percentage change of production October to December 2005 compared with the preceding three months	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production
Food and beverages	16,4	122,1	120,5	-1,3	-0,2
Food and food products	12,1	116,6	115,1	-1,3	-0,2
Beverages	4,3	137,8	135,6	-1,6	-0,1
Textiles, clothing, leather and footwear	5,4	97,3	95,8	-1,5	-0,1
Textiles	2,4	98,5	94,9	-3,7	-0,1
Wearing apparel	2,3	99,5	100,4	+0,9	+0,0
Leather and leather products	0,3	96,5	95,0	-1,6	-0,0
Footwear	0,4	80,9	77,4	-4,3	-0,0
Wood,paper,publish and printing	11,0	110,7	110,6	-0,1	-0,0
Wood and products of wood	1,7	122,6	117,7	-4,0	-0,1
Paper and paper products	4,8	107,7	106,2	-1,4	-0,1
Publishing and printing	4,6	109,2	112,2	+2,7	+0,1
Petroleum, chemical products, rubber and plastic products	22,5	118,4	111,3	-6,0	-1,4
Coke, petroleum products and nuclear fuel	9,1	109,2	94,4	-13,6	-1,2
Basic chemicals	4,0	121,2	114,5	-5,5	-0,2
Other chemical products	5,4	129,1	127,6	-1,2	-0,1
Rubber products	1,1	94,2	90,8	-3,6	-0,0
Plastic products	3,0	133,3	137,2	+2,9	+0,1
Glass and non-metallic mineral products	3,9	125,6	131,2	+4,5	+0,2
Glass and glass products	1,1	142,7	144,5	+1,3	+0,0
Non-metallic mineral products	2,9	119,3	126,3	+5,9	+0,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,4	110,3	116,1	+5,3	+1,2
Basic iron and steel products	5,5	95,6	101,3	+6,0	+0,3
Basic precious, non-ferrous metal products	4,7	111,2	117,0	+5,2	+0,2
Fabricated metal products	5,5	114,1	116,4	+2,0	+0,1
Machinery and equipment	6,7	119,1	127,9	+7,4	+0,5
Electrical machinery	2,7	98,5	97,5	-1,0	-0,0
Radio, television and communication apparatus and professional equipment	1,3	122,7	119,4	-2,7	-0,0
Radio, television and communication apparatus	0,7	104,9	98,5	-6,1	-0,0
Professional equipment	0,6	140,7	140,7	0,0	0,0
Motor vehicles, parts and accessories and other transport equipment	8,6	132,6	136,0	+2,6	+0,2
Motor vehicles, trailers, parts and accessories	7,6	138,4	142,6	+3,0	+0,2
Other transport equipment	1,0	87,8	85,5	-2,6	-0,0
Furniture and other manufacturing division	5,8	108,6	115,0	+5,9	+0,3
Furniture	1,6	136,8	137,3	+0,4	+0,0
Other manufacturing groups	4,2	98,0	106,5	+8,7	+0,4
<b>Total</b>	<b>100,0</b>	<b>115,7</b>	<b>115,8</b>	<b>+0,1</b>	<b>+0,1</b>

1/ The contribution is calculated by multiplying the quarterly percentage change of each manufacturing group or 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 fourth quarter of 2005 increased by 0,4% (+R962 million), after seasonal adjustment, compared with the third quarter of 2005. Higher manufacturing sales were reported by six of the ten manufacturing divisions during this period (see table D). The value of sales of manufactured products at current prices for the fourth quarter of 2005 was 6,7% higher than for the fourth quarter of 2004 (see table E).*

The seasonally adjusted increase of 0,4% in the total value of sales of manufactured products at current prices for the fourth quarter of 2005 compared with the third quarter of 2005 was mainly due to increases reported for the glass and non-metallic mineral products (+5,6% or +R370 million), food and beverages (+2,8% or +R1 078 million), furniture and 'other' manufacturing divisions (+1,9% or +R197 million) and basic iron and steel, non-ferrous metal products, metal products and machinery division (+1,2% or +R507 million) (see table D).

**Table D - Contribution of the manufacturing divisions and major groups to the total value of seasonally adjusted sales of manufactured products at current prices**

Manufacturing divisions and major groups	Seasonally adjusted sales July to September 2005	Seasonally adjusted sales October to December 2005	Percentage change between July to September 2005 and October to December 2005	Difference in seasonally adjusted sales of manufacturing divisions between July to September 2005 and October to December 2005
	R'000	R'000		R'000
Food and beverages	38 549 944	39 627 965	+2,8	1 078 021
Food and food products	28 620 526	29 450 872	+2,9	830 346
Beverages	9 929 419	10 177 093	+2,5	247 674
Textiles, clothing, leather and footwear	9 630 182	9 716 111	+0,9	85 929
Textiles	4 244 776	4 324 666	+1,9	79 890
Wearing apparel	3 610 365	3 651 545	+1,1	41 180
Leather and leather products	1 112 482	1 074 334	-3,4	-38 148
Footwear	662 558	665 568	+0,5	3 010
Wood,paper,publish and printing	19 677 790	19 659 668	-0,1	-18 122
Wood and products of wood	4 162 839	4 069 887	-2,2	-92 952
Paper and paper products	8 669 404	8 565 671	-1,2	-103 733
Publishing and printing	6 845 549	7 024 113	+2,6	178 564
Petroleum, chemical products, rubber and plastic products	44 612 903	43 406 848	-2,7	-1 206 055
Coke, petroleum products and nuclear fuel	15 773 308	14 539 912	-7,8	-1 233 396
Basic chemicals	9 118 930	8 819 290	-3,3	-299 640
Other chemical products	11 703 935	12 025 143	+2,7	321 208
Rubber products	2 132 948	2 102 509	-1,4	-30 439
Plastic products	5 883 784	5 919 995	+0,6	36 211
Glass and non-metallic mineral products	6 595 494	6 965 968	+5,6	370 474
Glass and glass products	1 162 250	1 176 049	+1,2	13 799
Non-metallic mineral products	5 433 246	5 789 920	+6,6	356 674
Basic iron and steel, non-ferrous metal products, metal products and machinery	42 096 753	42 603 308	+1,2	506 555
Basic iron and steel products	13 487 103	13 582 986	+0,7	95 883
Basic precious, non-ferrous metal products	6 210 826	5 959 082	-4,1	-251 744
Fabricated metal products	10 392 673	10 678 486	+2,8	285 813
Machinery and equipment	12 006 151	12 382 755	+3,1	376 604
Electrical machinery	5 094 262	5 263 338	+3,3	169 076
Radio, television and communication apparatus and professional equipment	3 181 667	3 020 151	-5,1	-161 516
Radio, television and communication apparatus	1 748 389	1 602 521	-8,3	-145 868
Professional equipment	1 433 277	1 417 630	-1,1	-15 647
Motor vehicles, parts and accessories and other transport equipment	36 538 461	36 479 343	-0,2	-59 118
Motor vehicles, trailers, parts and accessories	34 460 486	34 392 032	-0,2	-68 454
Other transport equipment	2 077 975	2 087 312	+0,4	9 337
Furniture and other manufacturing division	10 365 873	10 562 840	+1,9	196 967
Furniture	2 608 565	2 663 293	+2,1	54 728
Other manufacturing groups	7 757 307	7 899 548	+1,8	142 241
<b>Total</b>	<b>216 343 330</b>	<b>217 305 542</b>	<b>+0,4</b>	<b>962 212</b>

The major contributors to the increase of 6,7% in sales of manufactured products at current prices for the fourth quarter of 2005 compared with the fourth quarter of 2004 were the motor vehicles, parts and accessories and other transport equipment (+2,6 percentage points or +R5 412 million), petroleum chemical products, rubber and plastic products (+1,1 percentage points or +R2 292 million), food and beverages (+0,9 of a percentage point or +R1 968 million), wood and wood products, paper, publishing and printing (+0,7 of a percentage point or +R1 517 million), furniture and 'other manufacturing' divisions (+0,7 of a percentage point or +R1 457 million) and glass and non-metallic mineral products divisions (+0,5 of a percentage point or +R1 064 million) (see table E).

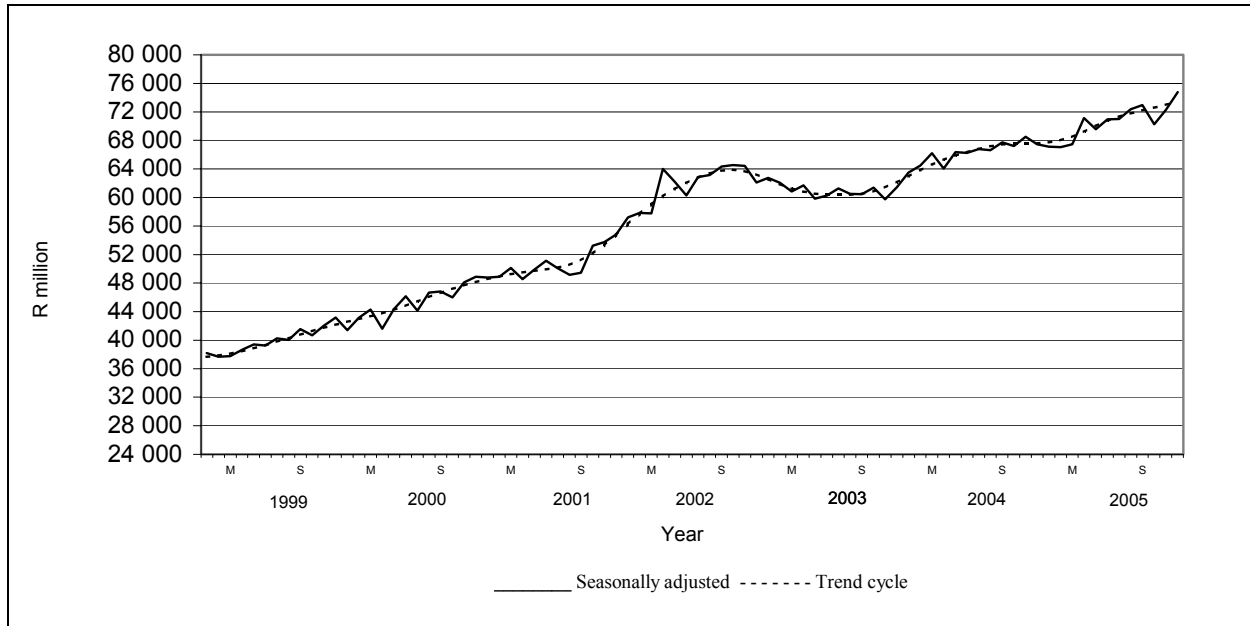
**Table E - Contribution of the manufacturing divisions and major groups to total value of sales of manufactured products at current prices**

Manufacturing divisions and major groups	Percentage contribution of sales of manufactured products October to December 2004	Percentage change between October to December 2004 and October to December 2005	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions between October to December 2004 and October to December 2005
				R'000
Food and beverages	19,6	+4,8	+0,9	1 967 802
Food and food products	14,3	+3,6	+0,5	1 103 430
Beverages	5,3	+7,8	+0,4	864 372
Textiles, clothing, leather and footwear	4,9	-0,8	-0,0	-77 264
Textiles	2,1	-0,7	-0,0	-31 486
Wearing apparel	1,9	+1,1	-0,0	44 836
Leather and leather products	0,5	-7,3	-0,0	-83 178
Footwear	0,4	-1,0	-0,0	-7 436
Wood, paper, publish and printing	8,9	+8,0	+0,7	1 516 985
Wood and products of wood	1,8	+10,2	+0,2	384 658
Paper and paper products	3,8	+7,3	+0,3	591 289
Publishing and printing	3,3	+7,7	+0,3	541 038
Petroleum, chemical products, rubber and plastic products	20,2	+5,4	+1,1	2 291 931
Coke, petroleum products and nuclear fuel	6,5	+4,8	+0,3	668 344
Basic chemicals	4,2	+7,9	+0,3	699 000
Other chemical products	5,7	+4,3	+0,2	513 533
Rubber products	1,1	-7,4	-0,1	-166 767
Plastic products	2,7	+10,2	+0,3	577 821
Glass and non-metallic mineral products	2,9	+17,6	+0,5	1 064 075
Glass and glass products	0,5	+13,8	+0,1	159 850
Non-metallic mineral products	2,3	+18,6	+0,4	904 225
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,8	-0,7	-0,1	-316 028
Basic iron and steel products	7,5	-16,2	-1,2	-2 563 484
Basic precious, non-ferrous metal products	2,7	+16,4	+0,4	928 338
Fabricated metal products	4,8	+6,9	+0,3	691 020
Machinery and equipment	5,8	+5,1	+0,3	628 098
Electrical machinery	2,3	+7,4	+0,2	365 037
Radio, television and communication apparatus and professional equipment	1,3	+13,5	+0,2	365 481
Radio, television and communication apparatus	0,6	+21,9	+0,1	298 697
Professional equipment	0,6	+5,0	+0,0	66 784
Motor vehicles, parts and accessories and other transport equipment	14,5	+17,7	+2,6	5 411 834
Motor vehicles, trailers, parts and accessories	13,5	+19,4	+2,6	5 509 047
Other transport equipment	1,0	-4,5	-0,0	-97 213
Furniture and other manufacturing division	4,7	+14,7	+0,7	1 456 857
Furniture	1,2	+12,1	+0,1	319 630
Other manufacturing groups	3,4	+15,6	+0,5	1 137 227
<b>Total</b>	<b>100,0</b>	<b>+6,7</b>	<b>+6,7</b>	<b>14 046 710</b>

1/ The contribution (percentage points) is calculated by multiplying the percentage change of each manufacturing major group or division with the percentage contribution of the same major group or 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 December 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**

<b>Forthcoming issues</b>	<b>Issue</b>	<b>Expected release date</b>
	January 2006	9 March 2006
<b>Purpose of the survey</b>	The results of the monthly manufacturing production and sales survey are used to calculate indices of the physical volume of manufacturing production. These indices provide an indicator of the real level of manufacturing activity in the economy. They are used in monitoring the state of the economy and formulation of economic policy. They are also important inputs to estimation of the Gross Domestic Product (GDP).	
<b>Special Data Dissemination Standard of the IMF</b>	The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.	
<b>Response rate</b>	The preliminary response rate for the survey on manufacturing production and sales for December 2005 was 78,5 %. Improved response rate for November 2005 was 88,3%.	

**Detailed tables**

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

Base 2000 = 100

Month	1999	2000	2001	2002	2003	2004	2005
Actual indices							
J	83,6	85,2	91,1	93,7	94,4	93,1	96,2
F	93,7	98,7	102,7	103,6	104,3	103,6	106,3
M	97,9	104,8	106,8	108,2	108,4	114,1	114,9
A	90,7	89,0	95,3	104,4	100,0	100,3	109,2
M	95,9	99,9	100,2	110,3	105,7	111,6	112,7
J	94,8	102,1	104,0	106,7	105,3	110,5	114,3
J	98,3	100,1	102,8	108,8	108,7	113,0	115,5
A	97,7	102,5	102,3	109,8	106,3	113,7	1/ 118,1
S	100,9	104,8	103,1	111,4	108,7	116,0	1/ 122,8
O	107,3	109,8	114,9	119,6	116,7	122,5	1/ 123,4
N	109,9	113,6	117,6	119,8	115,1	122,3	1/ 127,1
D	86,3	89,5	92,5	92,7	91,5	99,0	1/ 105,1
Year	96,4	100,0	102,8	107,4	105,4	110,0	113,8
Seasonally adjusted indices							
J	95,5	97,0	102,5	105,6	106,6	105,2	109,1
F	94,6	99,8	105,0	105,9	107,4	107,0	110,3
M	94,4	100,9	103,7	104,6	104,8	110,4	111,1
A	96,6	94,7	101,4	111,5	106,0	105,8	115,3
M	96,3	99,9	100,0	110,0	105,2	110,9	112,1
J	94,0	101,2	103,1	105,9	104,8	110,1	114,1
J	97,3	99,1	101,6	107,5	107,2	111,3	113,8
A	96,9	101,3	101,0	107,9	104,1	111,1	115,3
S	97,1	101,0	100,0	108,0	105,0	111,7	118,0
O	97,3	99,6	104,4	108,7	106,1	111,3	112,1
N	98,2	101,6	105,4	107,7	104,2	110,7	115,2
D	99,5	103,0	105,1	105,5	103,6	112,7	120,1

1/ Preliminary.

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

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

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 3a - Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups**

Base 2000 = 100

Manufacturing divisions and major groups	Weights	Year	Indices			Seasonally adjusted indices			
			2005	December	November	1/	December	November	December
				2004	2005		2004	2005	
Food and beverages	16,4	118,9	123,1	131,1	131,0	116,6	119,1	125,0	
Meat, fish, fruit etc.	2,6	127,7	129,4	134,7	138,3	127,3	131,1	135,8	
Dairy products	1,1	103,3	113,7	114,3	118,7	101,1	104,0	105,5	
Grain mill products	1,5	123,6	125,1	130,7	136,5	127,1	125,6	138,6	
Other food products	6,8	107,7	93,5	122,4	101,3	101,9	107,1	111,7	
Beverages	4,3	133,9	167,7	147,3	174,9	133,6	132,3	139,7	
Textiles, clothing, leather and footwear	5,4	98,0	81,2	112,1	75,6	105,8	95,9	98,3	
Textiles	1,2	81,3	55,6	83,0	48,9	88,6	75,8	78,2	
Other textile products	1,2	116,3	91,2	145,3	85,5	121,4	119,5	112,7	
Knitted, crocheted articles	0,3	77,4	56,1	79,4	59,0	83,8	73,1	88,6	
Wearing apparel	2,0	104,5	100,5	122,6	91,4	118,4	102,6	107,4	
Leather and leather products	0,3	100,0	78,4	98,7	79,5	100,8	92,4	102,7	
Footwear	0,4	79,6	58,1	90,7	60,7	74,7	78,0	78,4	
Wood and wood products, paper, publishing and printing	11,0	108,6	94,2	125,4	99,3	105,5	111,5	110,9	
Sawmilling and planing of wood	0,7	111,5	85,6	122,8	87,1	113,6	114,4	114,9	
Products of wood	1,0	123,6	92,6	145,6	92,1	120,2	123,6	119,4	
Paper and paper products	4,8	103,7	92,6	117,4	95,7	99,6	108,3	102,8	
Publishing	2,4	107,5	98,7	127,1	113,5	102,4	110,4	117,7	
Printing, recorded media	2,1	112,9	96,0	132,8	98,5	113,0	113,4	115,6	
Petroleum, chemical products, rubber and plastic products	22,5	113,2	103,8	117,2	107,3	112,7	110,8	116,8	
Coke, petroleum products, and nuclear fuel	9,1	103,1	106,9	86,8	103,5	103,7	92,4	101,1	
Basic chemicals	4,0	113,6	98,5	129,7	110,9	105,0	118,1	118,0	
Other chemical products	5,4	125,6	112,5	140,7	118,3	128,9	127,0	135,0	
Rubber products	1,1	93,7	61,7	100,5	55,7	102,9	90,3	92,1	
Plastic products	3,0	128,9	101,8	157,8	114,4	125,1	136,1	140,4	
Glass and non-metallic mineral products	3,9	123,2	96,6	144,4	114,5	116,8	127,3	139,1	
Glass and glass products	1,1	137,9	121,7	172,7	128,9	134,7	144,8	143,4	
Non-metallic mineral products	2,9	117,7	87,3	133,9	109,2	110,2	120,8	137,5	
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,4	113,3	99,2	125,2	103,5	114,3	115,0	119,3	
Basic iron and steel products	5,5	103,7	98,6	106,0	98,7	106,2	100,8	106,1	
Non-ferrous metal products	4,7	109,8	97,7	116,2	115,2	105,7	111,4	124,8	
Structural metal products	1,3	115,7	84,7	138,2	92,7	111,2	121,8	122,0	
Other fabricated metal products	4,2	112,4	91,0	137,0	92,0	115,8	121,1	116,8	
General purpose machinery	2,4	114,8	98,9	122,1	98,6	116,4	113,2	116,9	
Special purpose machinery	3,2	132,4	122,4	142,3	117,8	137,3	135,9	132,4	
Household appliances	1,2	120,4	91,2	156,4	107,1	119,0	115,2	138,1	
Electrical machinery	2,7	97,5	82,2	105,6	81,9	100,2	93,0	99,8	
Radio, television and communication apparatus and professional equipment	1,3	113,4	108,1	125,6	107,9	121,9	121,2	121,3	
Radio, television and communication apparatus	0,7	92,8	88,6	103,1	93,6	92,9	102,6	97,8	
Professional equipment	0,6	134,2	127,9	148,4	122,5	151,3	140,0	145,1	
Motor vehicles, parts and accessories and other transport equipment	8,6	128,3	77,2	155,9	92,8	116,1	140,9	141,0	
Motor vehicles	4,1	129,1	71,7	160,8	86,5	114,1	142,2	139,4	
Bodies for motor vehicles, trailers and semi-trailers	0,4	155,0	106,0	207,3	132,6	134,2	180,0	169,1	
Parts and accessories	3,1	135,6	81,6	163,0	101,9	125,5	149,8	156,3	
Other transport equipment	1,0	91,8	75,1	94,1	75,4	88,6	92,9	89,3	
Other manufacturing divisions	5,8	108,0	77,2	134,7	89,5	110,7	109,9	126,0	
Furniture	1,6	132,7	97,8	174,4	113,6	129,9	136,1	148,9	
Other manufacturing groups	4,2	98,6	69,5	119,8	80,4	103,4	100,0	117,3	
	100,0	113,8	99,0	127,1	105,1	112,7	115,2	120,1	

1/ Preliminary.

**Table 3b - Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups (concluded)**

Base 2000 = 100

Manufacturing divisions and major groups	Weights	Year	Indices			Seasonally adjusted indices		
			December 2004	December 2005	Percentage difference between December 2004 and December 2005	November 2005	December 2005	Percentage difference between November and December 2005
Food and beverages	16,4	118,9	123,1	131,0	+6,4	119,1	125,0	+5,0
Meat, fish, fruit etc.	2,6	127,7	129,4	138,3	+6,9	131,1	135,8	+3,6
Dairy products	1,1	103,3	113,7	118,7	+4,4	104,0	105,5	+1,4
Grain mill products	1,5	123,6	125,1	136,5	+9,1	125,6	138,6	+10,4
Other food products	6,8	107,7	93,5	101,3	+8,3	107,1	111,7	+4,3
Beverages	4,3	133,9	167,7	174,9	+4,3	132,3	139,7	+5,6
Textiles, clothing, leather and footwear	5,4	98,0	81,2	75,6	-6,9	95,9	98,3	+2,5
Textiles	1,2	81,3	55,6	48,9	-12,1	75,8	78,2	+3,2
Other textile products	1,2	116,3	91,2	85,5	-6,3	119,5	112,7	-5,7
Knitted, crocheted articles	0,3	77,4	56,1	59,0	+5,2	73,1	88,6	+21,2
Wearing apparel	2,0	104,5	100,5	91,4	-9,1	102,6	107,4	+4,7
Leather and leather products	0,3	100,0	78,4	79,5	+1,4	92,4	102,7	+11,1
Footwear	0,4	79,6	58,1	60,7	+4,5	78,0	78,4	+0,5
Wood and wood products, paper, publishing and printing	11,0	108,6	94,2	99,3	+5,4	111,5	110,9	-0,5
Sawmilling and planing of wood	0,7	111,5	85,6	87,1	+1,8	114,4	114,9	+0,4
Products of wood	1,0	123,6	92,6	92,1	-0,5	123,6	119,4	-3,4
Paper and paper products	4,8	103,7	92,6	95,7	+3,3	108,3	102,8	-5,1
Publishing	2,4	107,5	98,7	113,5	+15,0	110,4	117,7	+6,6
Printing, recorded media	2,1	112,9	96,0	98,5	+2,6	113,4	115,6	+1,9
Petroleum, chemical products, rubber and plastic products	22,5	113,2	103,8	107,3	+3,4	110,8	116,8	+5,4
Coke, petroleum products and nuclear fuel	9,1	103,1	106,9	103,5	-3,2	92,4	101,1	+9,4
Basic chemicals	4,0	113,6	98,5	110,9	+12,6	118,1	118,0	-0,1
Other chemical products	5,4	125,6	112,5	118,3	+5,2	127,0	135,0	+6,3
Rubber products	1,1	93,7	61,7	55,7	-9,7	90,3	92,1	+2,0
Plastic products	3,0	128,9	101,8	114,4	+12,4	136,1	140,4	+3,2
Glass and non-metallic mineral products	3,9	123,2	96,6	114,5	+18,5	127,3	139,1	+9,3
Glass and glass products	1,1	137,9	121,7	128,9	+5,9	144,8	143,4	-1,0
Non-metallic mineral products	2,9	117,7	87,3	109,2	+25,1	120,8	137,5	+13,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,4	113,3	99,2	103,5	+4,3	115,0	119,3	+3,7
Basic iron and steel products	5,5	103,7	98,6	98,7	+0,1	100,8	106,1	+5,3
Non-ferrous metal products	4,7	109,8	97,7	115,2	+17,9	111,4	124,8	+12,0
Structural metal products	1,3	115,7	84,7	92,7	+9,4	121,8	122,0	+0,2
Other fabricated metal product	4,2	112,4	91,0	92,0	+1,1	121,1	116,8	-3,6
General purpose machinery	2,4	114,8	98,9	98,6	-0,3	113,2	116,9	+3,3
Special purpose machinery	3,2	132,4	122,4	117,8	-3,8	135,9	132,4	-2,6
Household appliances	1,2	120,4	91,2	107,1	+17,4	115,2	138,1	+19,9
Electrical machinery	2,7	97,5	82,2	81,9	-0,4	93,0	99,8	+7,3
Radio, television and communication apparatus and professional equipment	1,3	113,4	108,1	107,9	-0,2	121,2	121,3	+0,1
Radio, television and communication apparatus	0,7	92,8	88,6	93,6	+5,6	102,6	97,8	-4,7
Professional equipment	0,6	134,2	127,9	122,5	-4,2	140,0	145,1	+3,6
Motor vehicles, parts and accessories and other transport equipment	8,6	128,3	77,2	92,8	+20,2	140,9	141,0	+0,1
Motor vehicles	4,1	129,1	71,7	86,5	+20,6	142,2	139,4	-2,0
Bodies for motor vehicles, trailers for motor vehicles, parts and accessories	0,4	155,0	106,0	132,6	+25,1	180,0	169,1	-6,1
Parts and accessories	3,1	135,6	81,6	101,9	+24,9	149,8	156,3	+4,3
Other transport equipment	1,0	91,8	75,1	75,4	+0,4	92,9	89,3	-3,9
Other manufacturing divisions	5,8	108,0	77,2	89,5	+15,9	109,9	126,0	+14,6
Furniture	1,6	132,7	97,8	113,6	+16,2	136,1	148,9	+9,4
Other manufacturing groups	4,2	98,6	69,5	80,4	+15,7	100,0	117,3	+17,3
	100,0	113,8	99,0	105,1	+6,2	115,2	120,1	+4,3

1/ Preliminary.

**Table 4 – Total of estimated sales of the manufacturing industry at current prices (R'000)**

Month	1999	2000	2001	2002	2003	2004	2005
Actual values							
J	31 555 022	34 427 494	41 043 695	48 213 334	52 881 892	53 577 205	56 470 478
F	36 615 997	41 984 311	47 559 661	56 319 773	60 374 141	62 575 341	65 023 085
M	39 389 583	46 246 977	52 200 984	59 926 973	62 739 099	67 969 216	69 178 438
A	36 561 495	39 304 965	45 876 551	60 441 376	58 657 547	61 211 805	68 029 954
M	39 422 080	44 574 471	50 181 467	62 683 501	60 262 799	66 815 480	69 947 413
J	39 941 869	47 081 382	52 042 802	61 135 948	60 811 763	66 561 396	71 215 228
J	40 129 396	44 015 506	49 989 523	62 877 019	61 398 195	67 177 893	71 531 776
A	40 722 958	47 373 593	49 928 171	64 210 548	61 531 966	67 929 570	1/73 867 868
S	43 014 022	48 468 742	51 099 123	66 577 439	62 900 284	70 906 521	1/76 576 128
O	45 177 492	50 720 639	58 609 152	71 025 253	67 504 463	73 526 006	1/76 817 391
N	46 857 962	53 508 142	59 846 533	71 503 335	66 340 128	75 806 307	1/80 084 652
D	39 420 298	44 778 462	50 601 063	56 979 458	56 066 970	61 891 950	1/68 368 930
Year	478 808 174	542 484 684	608 978 725	741 893 957	731 469 247	795 948 690	847 111 341
Seasonally adjusted values							
J	38 177 238	41 368 315	48 760 859	57 200 789	62 700 997	63 491 487	67 120 078
F	37 662 670	43 140 059	48 905 321	57 850 054	62 044 221	64 468 046	67 035 717
M	37 765 738	44 280 263	50 097 541	57 718 687	60 770 801	66 191 648	67 450 267
A	38 628 264	41 580 936	48 574 393	64 040 430	61 737 475	64 053 371	71 130 046
M	39 421 848	44 396 231	49 872 260	62 231 422	59 817 602	66 376 557	69 587 766
J	39 242 234	46 147 145	51 116 098	60 265 048	60 265 067	66 222 144	70 968 287
J	40 218 910	44 122 573	50 081 402	62 863 921	61 277 483	66 789 137	71 005 252
A	40 051 858	46 655 139	49 150 145	63 147 053	60 477 738	66 620 535	72 380 999
S	41 556 356	46 814 695	49 373 146	64 152 987	60 304 034	67 707 284	72 957 079
O	40 683 683	45 987 092	53 263 638	64 754 184	61 568 936	67 217 513	70 264 842
N	42 037 214	48 108 672	53 799 806	64 521 500	59 786 137	68 521 863	72 256 668
D	43 157 849	48 924 261	54 832 321	62 111 562	61 235 747	67 448 992	74 784 032

1/ Preliminary.

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

Month	1999	2000	2001	2002	2003	2004	2005
J	..	+9,1	+19,2	+17,5	+9,7	+1,3	+5,4
F	..	+14,7	+13,3	+18,4	+7,2	+3,6	+3,9
M	..	+17,4	+12,9	+14,8	+4,7	+8,3	+1,8
A	..	+7,5	+16,7	+31,7	-3,0	+4,4	+11,1
M	..	+13,1	+12,6	+24,9	-3,9	+10,9	+4,7
J	..	+17,9	+10,5	+17,5	-0,5	+9,5	+7,0
J	..	+9,7	+13,6	+25,8	-2,4	+9,4	+6,5
A	..	+16,3	+5,4	+28,6	-4,2	+10,4	+8,7
S	..	+12,7	+5,4	+30,3	-5,5	+12,7	+8,0
O	..	+12,3	+15,6	+21,2	-5,0	+8,9	+4,5
N	..	+14,2	+11,8	+19,5	-7,2	+14,3	+5,6
D	..	+13,6	+13,0	+12,6	-1,6	+10,4	+10,5
Year	.	+13,3	+12,3	+21,8	-1,4	+8,8	+6,4

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 6a - Sales of manufactured products according to manufacturing divisions and major groups (R'000)**

Manufacturing divisions and major groups	Year	Actual values						Seasonally adjusted values		
		December		November		1/ December		December	November	December
		2005		2004		2005		2004	2005	
Food and beverages	153 502 041	14 393 458	14 239 305	15 571 080	12 657 534	13 139 772	13 639 057			
Meat, fish, fruit etc.	35 853 683	3 075 477	3 327 769	3 495 238	2 888 437	3 085 481	3 279 349			
Dairy products	12 979 247	1 184 079	1 183 611	1 244 248	1 068 151	1 089 368	1 119 953			
Grain mill products	24 949 058	2 305 657	2 203 274	2 264 782	2 201 211	2 123 013	2 158 085			
Other food products	40 533 733	3 495 458	3 902 288	3 694 998	3 403 911	3 491 128	3 592 577			
Beverages	39 186 320	4 332 787	3 622 363	4 871 814	3 095 824	3 350 782	3 489 093			
Textiles, clothing, leather and footwear	38 820 976	2 787 348	3 907 000	2 664 962	3 459 652	3 284 023	3 303 801			
Textiles	6 303 682	394 914	578 380	364 904	577 403	522 251	531 286			
Other textile products	10 886 008	739 251	1 145 661	717 703	923 978	961 041	893 436			
Knitted, crocheted articles	1 688 502	106 421	148 701	114 104	149 165	136 594	160 117			
Wearing apparel	12 863 450	1 064 242	1 385 378	970 164	1 206 465	1 091 638	1 098 668			
Leather and leather products	4 417 835	297 984	367 064	305 049	378 788	346 837	388 843			
Footwear	2 661 499	184 536	281 816	193 038	223 853	225 663	231 452			
Wood and wood products, paper, publishing and printing	76 759 786	5 450 344	7 466 998	5 913 315	6 081 770	6 591 262	6 583 181			
Sawmilling and planing of wood	4 018 735	245 098	395 772	267 696	309 999	347 349	337 184			
Products of wood	11 868 019	721 076	1 200 700	803 429	914 494	1 047 868	1 018 305			
Paper and paper products	33 214 795	2 463 420	3 126 199	2 612 251	2 631 218	2 884 082	2 787 233			
Publishing	12 136 452	889 498	1 205 273	1 069 108	924 387	1 041 856	1 112 596			
Printing, recorded media	15 521 785	1 131 252	1 539 054	1 160 831	1 301 671	1 270 108	1 327 864			
Petroleum, chemical products, rubber and plastic products	170 189 317	12 687 916	15 113 318	14 216 323	13 788 783	13 757 642	15 407 570			
Coke, petroleum products, and nuclear fuel	57 692 975	4 369 291	3 923 686	5 437 484	4 537 422	3 869 745	5 647 934			
Basic chemicals	35 006 061	2 524 076	3 597 779	2 683 545	2 742 656	3 175 513	2 912 163			
Other chemical products	46 269 284	3 653 850	4 484 005	3 820 019	3 971 393	4 033 612	4 160 742			
Rubber products	8 537 288	600 163	776 008	556 679	742 966	710 811	685 599			
Plastic products	22 683 709	1 540 536	2 331 840	1 718 596	1 794 345	1 967 961	2 001 133			
Glass and non-metallic mineral products	25 814 858	1 541 156	2 585 139	1 932 164	1 927 744	2 281 828	2 423 685			
Glass and glass products	4 545 097	311 436	496 326	354 821	343 470	390 641	392 355			
Non-metallic mineral products	21 269 761	1 229 720	2 088 813	1 577 343	1 584 274	1 891 187	2 031 330			
Basic iron and steel, non-ferrous metal products, metal products and machinery	172 060 226	12 806 560	15 917 650	12 962 002	14 108 992	14 539 510	14 235 047			
Basic iron and steel products	57 834 384	4 782 031	4 863 571	4 111 256	5 359 530	4 725 711	4 629 900			
Non-ferrous metal products	24 067 324	1 626 375	2 315 450	2 140 240	1 429 379	2 085 076	1 895 565			
Structural metal products	13 148 004	903 371	1 287 346	914 129	1 137 608	1 154 248	1 151 075			
Other fabricated metal product	28 237 226	1 878 786	2 783 438	2 035 161	2 308 518	2 474 404	2 496 435			
General purpose machinery	17 855 019	1 368 717	1 645 897	1 393 645	1 398 219	1 519 621	1 440 563			
Special purpose machinery	20 811 339	1 602 794	1 927 460	1 608 346	1 685 183	1 746 103	1 701 277			
Household appliances	10 106 930	644 486	1 094 488	759 225	790 555	834 348	920 232			
Electrical machinery	20 195 376	1 382 305	1 939 705	1 571 773	1 618 735	1 748 574	1 833 114			
Radio, television and communication apparatus and professional equipment	11 545 497	853 358	1 092 778	926 049	908 871	1 038 829	981 637			
Radio, television and communication apparatus	6 152 698	434 147	591 468	500 943	443 932	562 892	512 312			
Professional equipment	5 392 799	419 211	501 310	425 106	464 939	475 936	469 326			
Motor vehicles, parts and accessories and other transport equipment	137 817 574	7 184 528	13 714 752	9 309 522	9 810 389	12 310 047	12 728 866			
Motor vehicles	74 380 798	3 611 731	7 394 097	5 112 966	4 912 118	6 591 275	6 986 241			
Bodies for motor vehicles, trailers and semi-trailers	6 147 355	388 710	675 690	477 079	453 834	569 069	553 360			
Parts and accessories	48 580 462	2 601 928	4 889 189	3 114 457	3 732 891	4 404 063	4 454 775			
Other transport equipment	8 708 959	582 159	755 776	605 020	711 546	745 640	734 491			
Other manufacturing divisions	40 405 690	2 804 977	4 108 007	3 301 740	3 086 523	3 565 181	3 648 073			
Furniture	10 314 786	657 695	1 131 281	775 769	801 975	881 192	937 254			
Other manufacturing groups	30 090 904	2 147 282	2 976 726	2 525 971	2 284 549	2 683 990	2 710 819			
	847 111 341	61 891 950	80 084 652	68 368 930	67 448 992	72 256 668	74 784 032			

1/ Preliminary.

**Table 6b - Sales of manufactured products according to manufacturing divisions and major groups (R'000) (concluded)**

Manufacturing divisions and major groups	Year	Value of sales			Seasonally adjusted value of sales		
				Percentage change between			Percentage change between
		December 2004	December 2005	December 2004 and December 2005	November 2005	December 2005	November and December 2005
Food and beverages	153 502 041	14 393 458	15 571 080	+8,2	13 139 772	13 639 057	+3,8
Meat, fish, fruit etc.	35 853 683	3 075 477	3 495 238	+13,6	3 085 481	3 279 349	+6,3
Dairy products	12 979 247	1 184 079	1 244 248	+5,1	1 089 368	1 119 953	+2,8
Grain mill products	24 949 058	2 305 657	2 264 782	-1,8	2 123 013	2 158 085	+1,7
Other food products	40 533 733	3 495 458	3 694 998	+5,7	3 491 128	3 592 577	+2,9
Beverages	39 186 320	4 332 787	4 871 814	+12,4	3 350 782	3 489 093	+4,1
Textiles, clothing, leather and footwear	38 820 976	2 787 348	2 664 962	-4,4	3 284 023	3 303 801	+0,6
Textiles	6 303 682	394 914	364 904	-7,6	522 251	531 286	+1,7
Other textile products	10 886 008	739 251	717 703	-2,9	961 041	893 436	-7,0
Knitted, crocheted articles	1 688 502	106 421	114 104	+7,2	136 594	160 117	+17,2
Wearing apparel	12 863 450	1 064 242	970 164	-8,8	1 091 638	1 098 668	+0,6
Leather and leather products	4 417 835	297 984	305 049	+2,4	346 837	388 843	+12,1
Footwear	2 661 499	184 536	193 038	+4,6	225 663	231 452	+2,6
Wood and wood products, paper, publishing and printing	76 759 786	5 450 344	5 913 315	+8,5	6 591 262	6 583 181	-0,1
Sawmilling and planing of wood	4 018 735	245 098	267 696	+9,2	347 349	337 184	-2,9
Products of wood	11 868 019	721 076	803 429	+11,4	1 047 868	1 018 305	-2,8
Paper and paper products	33 214 795	2 463 420	2 612 251	+6,0	2 884 082	2 787 233	-3,4
Publishing	12 136 452	889 498	1 069 108	+20,2	1 041 856	1 112 596	+6,8
Printing, recorded media	15 521 785	1 131 252	1 160 831	+2,6	1 270 108	1 327 864	+4,5
Petroleum, chemical products, rubber and plastic products	170 189 317	12 687 916	14 216 323	+12,0	13 757 642	15 407 570	+12,0
Coke, petroleum products and nuclear fuel	57 692 975	4 369 291	5 437 484	+24,4	3 869 745	5 647 934	+46,0
Basic chemicals	35 006 061	2 524 076	2 683 545	+6,3	3 175 513	2 912 163	-8,3
Other chemical products	46 269 284	3 653 850	3 820 019	+4,5	4 033 612	4 160 742	+3,2
Rubber products	8 537 288	600 163	556 679	-7,2	710 811	685 599	-3,5
Plastic products	22 683 709	1 540 536	1 718 596	+11,6	1 967 961	2 001 133	+1,7
Glass and non-metallic mineral products	25 814 858	1 541 156	1 932 164	+25,4	2 281 828	2 423 685	+6,2
Glass and glass products	4 545 097	311 436	354 821	+13,9	390 641	392 355	+0,4
Non-metallic mineral products	21 269 761	1 229 720	1 577 343	+28,3	1 891 187	2 031 330	+7,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	172 060 226	12 806 560	12 962 002	+1,2	14 539 510	14 235 047	-2,1
Basic iron and steel products	57 834 384	4 782 031	4 111 256	-14,0	4 725 711	4 629 900	-2,0
Non-ferrous metal products	24 067 324	1 626 375	2 140 240	+31,6	2 085 076	1 895 565	-9,1
Structural metal products	13 148 004	903 371	914 129	+1,2	1 154 248	1 151 075	-0,3
Other fabricated metal product	28 237 226	1 878 786	2 035 161	+8,3	2 474 404	2 496 435	+0,9
General purpose machinery	17 855 019	1 368 717	1 393 645	+1,8	1 519 621	1 440 563	-5,2
Special purpose machinery	20 811 339	1 602 794	1 608 346	+0,3	1 746 103	1 701 277	-2,6
Household appliances	10 106 930	644 486	759 225	+17,8	834 348	920 232	+10,3
Electrical machinery	20 195 376	1 382 305	1 571 773	+13,7	1 748 574	1 833 114	+4,8
Radio, television and communication apparatus and professional equipment	11 545 497	853 358	926 049	+8,5	1 038 829	981 637	-5,5
Radio, television and communication apparatus	6 152 698	434 147	500 943	+15,4	562 892	512 312	-9,0
Professional equipment	5 392 799	419 211	425 106	+1,4	475 936	469 326	-1,4
Motor vehicles, parts and accessories and other transport equipment	137 817 574	7 184 528	9 309 522	+29,6	12 310 047	12 728 866	+3,4
Motor vehicles	74 380 798	3 611 731	5 112 966	+41,6	6 591 275	6 986 241	+6,0
Bodies for motor vehicles, trailers and semi-trailers	6 147 355	388 710	477 079	+22,7	569 069	553 360	-2,8
Parts and accessories	48 580 462	2 601 928	3 114 457	+19,7	4 404 063	4 454 775	+1,2
Other transport equipment	8 708 959	582 159	605 020	+3,9	745 640	734 491	-1,5
Other manufacturing divisions	40 405 690	2 804 977	3 301 740	+17,7	3 565 181	3 648 073	+2,3
Furniture	10 314 786	657 695	775 769	+18,0	881 192	937 254	+6,4
Other manufacturing groups	30 090 904	2 147 282	2 525 971	+17,6	2 683 990	2 710 819	+1,0
	847 111 341	61 891 950	68 368 930	+10,5	72 256 668	74 784 032	+3,5

1/ Preliminary.



**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 according to manufacturing divisions and major groups**

Manufacturing divisions and major groups	Weights	Indices (base 2000=100)			Value of sales (R'000)		
		October to December 2004	October to December 2005	Annual percentage change between October to December 2004 and October to December 2005	October to December 2004	October to December 2005	Annual percentage change between October to December 2004 and October to December 2005
Food and beverages	16,4	125,0	130,0	+4,0	41 421 581	43 389 383	+4,8
Meat, fish, fruit etc.	2,6	129,0	133,0	+3,1	9 257 615	9 933 526	+7,3
Dairy products	1,1	110,6	116,2	+5,1	3 436 900	3 605 887	+4,9
Grain mill products	1,5	125,1	131,1	+4,8	6 841 902	6 564 063	-4,1
Other food products	6,8	108,0	114,5	+6,0	10 745 256	11 281 627	+5,0
Beverages	4,3	153,3	155,9	+1,7	11 139 908	12 004 280	+7,8
Textiles, clothing, leather and footwear	5,4	103,2	98,5	-4,6	10 251 240	10 173 976	-0,8
Textiles	1,2	84,7	72,0	-15,0	1 694 108	1 499 629	-11,5
Other textile products	1,2	118,7	117,5	-1,0	2 706 216	2 869 209	+6,0
Knitted, crocheted articles	0,3	84,3	72,1	-14,5	449 151	404 008	-10,1
Wearing apparel	2,0	113,7	112,3	-1,2	3 509 955	3 599 934	+2,6
Leather and leather products	0,3	99,6	92,2	-7,4	1 142 495	1 059 317	-7,3
Footwear	0,4	82,1	82,3	+0,2	749 315	741 879	-1,0
Wood and wood products, paper, publishing and printing	11,0	110,1	114,6	+4,1	18 897 405	20 414 390	+8,0
Sawmilling and planing of wood	0,7	105,9	110,0	+3,9	894 116	1 027 286	+14,9
Products of wood	1,0	126,7	123,7	-2,4	2 874 590	3 126 078	+8,7
Paper and paper products	4,8	102,7	108,3	+5,5	8 116 582	8 707 871	+7,3
Publishing	2,4	108,6	121,1	+11,5	2 968 718	3 416 210	+15,1
Printing, recorded media	2,1	121,4	118,6	-2,3	4 043 399	4 136 945	+2,3
Petroleum, chemical products, rubber and plastic products	22,5	112,4	113,2	+0,7	42 607 141	44 899 072	+5,4
Coke, petroleum products and nuclear fuel	9,1	98,2	93,0	-5,3	13 802 200	14 470 544	+4,8
Basic chemicals	4,0	111,9	122,4	+9,4	8 850 763	9 549 763	+7,9
Other chemical products	5,4	130,9	131,5	+0,5	12 032 630	12 546 163	+4,3
Rubber products	1,1	94,5	84,2	-10,9	2 253 882	2 087 115	-7,4
Plastic products	3,0	129,7	140,7	+8,5	5 667 666	6 245 487	+10,2
Glass and non-metallic mineral products	3,9	117,0	133,7	+14,3	6 033 943	7 098 018	+17,6
Glass and glass products	1,1	137,3	154,6	+12,6	1 161 492	1 321 342	+13,8
Non-metallic mineral products	2,9	109,4	125,9	+15,1	4 872 451	5 776 676	+18,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,4	115,0	116,6	+1,4	43 876 521	43 560 493	-0,7
Basic iron and steel products	5,5	112,9	102,7	-9,0	15 872 123	13 308 639	-16,2
Non-ferrous metal products	4,7	105,7	116,8	+10,5	5 652 224	6 580 562	+16,4
Structural metal products	1,3	113,5	119,0	+4,8	3 187 920	3 401 658	+6,7
Other fabricated metal products	4,2	112,7	115,3	+2,3	6 848 994	7 326 276	+7,0
General purpose machinery	2,4	118,1	114,6	-3,0	4 587 935	4 633 461	+1,0
Special purpose machinery	3,2	131,9	136,1	+3,2	5 189 772	5 468 269	+5,4
Household appliances	1,2	118,8	137,0	+15,3	2 537 553	2 841 628	+12,0
Electrical machinery	2,7	99,8	98,9	-0,9	4 959 633	5 324 670	+7,4
Radio, television and communication apparatus and professional equipment	1,3	111,3	119,4	+7,3	2 710 241	3 075 722	+13,5
Radio, television and communication apparatus	0,7	86,4	100,8	+16,7	1 366 135	1 664 832	+21,9
Professional equipment	0,6	136,5	138,3	+1,3	1 344 106	1 410 890	+5,0
Motor vehicles, parts and accessories and other transport equipment	8,6	116,0	130,6	+12,6	30 557 908	35 969 742	+17,7
Motor vehicles	4,1	113,6	133,6	+17,6	15 956 493	19 703 266	+23,5
Bodies for motor vehicles, trailers and semi-trailers	0,4	135,9	176,9	+30,2	1 530 635	1 750 122	+14,3
Parts and accessories	3,1	124,3	135,6	+9,1	10 928 133	12 470 920	+14,1
Other transport equipment	1,0	92,0	84,9	-7,7	2 142 647	2 045 434	-4,5
Other manufacturing divisions	5,8	115,8	121,4	+4,8	9 908 650	11 365 507	+14,7
Furniture	1,6	137,6	150,4	+9,3	2 640 058	2 959 688	+12,1
Other manufacturing groups	4,2	107,7	110,4	+2,5	7 268 592	8 405 819	+15,6
	100,0	114,6	118,5	+3,4	211 224 263	225 270 973	+6,7

## Explanatory notes

<b>Introduction</b>	<p>1 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 divisions and major groups within manufacturing.</p> <p>2 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.</p> <p>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.</p> <p>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.</p>
<b>Scope of the survey</b>	<p>5 This survey covers manufacturing enterprises, i.e. those conducting activities in -</p> <ul style="list-style-type: none"> <li>• the manufacturing, processing, making or packing of products;</li> <li>• the slaughtering of animals, including poultry; and</li> <li>• installation, assembly, completion, repair and related work.</li> </ul>
<b>Classification</b>	<p>6 The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities (SIC)</i>, Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities (ISIC)</i> 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.</p>
<b>Statistical unit</b>	<p>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.</p>
<b>Weighting methodology</b>	<p>8 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="http://www.statssa.gov.za/publications/publicationsearch.asp">www.statssa.gov.za/publications/publicationsearch.asp</a>.</p> <p>9 For indices, a weight is calculated for every major group according to the value added of the major group 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 survey 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 F for the fixed weights which were used for the two periods 1996 to 2000 and 2001 to 2005).</p>

- Survey methodology and design**
- 10** The survey is conducted monthly. Questionnaires are sent to a sample of approximately 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 approximately 3 000 enterprises, which was drawn in August 2005 from a population then of 45 130 manufacturing enterprises. Each manufacturing major group 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 major group 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.
- 12** 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 38 of the 44 major groups 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.
- 13** More direct indicators are used for the value of production of tobacco, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, 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**
- 14** Seasonally adjusted estimates of all major groups 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**
- 15** 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**
- 16** 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.
- 17** 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](http://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 a sample in the survey 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  $N_h$  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

<b>Enterprise</b>	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.
<b>Index of physical volume of manufacturing production</b>	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 major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 2000. The production in the base period is set at 100.
<b>Industry</b>	An industry is made up of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the <i>System of National Accounts (SNA)</i> in the same way as in the <i>Standard Industrial Classification of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC)</i> .
<b>Intermediate consumption</b>	Intermediate consumption includes - <ul style="list-style-type: none"><li>• purchases and transfers-in of materials;</li><li>• payments to other establishments for work done;</li><li>• other direct factory costs;</li><li>• rent and leasing paid;</li><li>• head office charges;</li><li>• royalties, copyright, trade names and patent rights paid;</li><li>• advertising;</li><li>• insurance premiums;</li><li>• services; and</li><li>• secretarial and administrative fees.</li></ul>
<b>Output</b>	Output is the aggregate value of goods manufactured and work done and includes - <ul style="list-style-type: none"><li>• sales and transfers-out of own manufactures, factory waste and stocks of factored goods;</li><li>• repairs;</li><li>• installation, erection and assembly;</li><li>• sundry trading revenue;</li><li>• sales of factored goods minus purchases of factored goods;</li><li>• rent and leasing received;</li><li>• royalties received;</li><li>• difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods;</li><li>• head office charges; and</li><li>• other revenue.</li></ul> Output excludes excise and customs duty paid.
<b>Value added</b>	Value added is the value of output less intermediate consumption. It represents the value added to the cost of the materials used in the process of production.
<b>Sales</b>	Sales are the total value of sales and transfers-out of all own manufactured products/articles and the amounts received for installation, erection or assembly or other services rendered.
<b>Statistical unit</b>	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 major group of manufacturing in the overall index for manufacturing is the ratio of the value added of the major group (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 major group 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 F – Weights according to manufacturing major groups**

Manufacturing divisions and major groups	Weights according to the 2001 large sample survey of the manufacturing industry 2001 - 2005	Weights according to the 1996 census of manufacturing 1996 - 2000
Food and beverages	16,4	15,3
Meat, fish, fruit etc.	2,6	2,8
Dairy products	1,1	1,4
Grain mill products	1,5	2,1
Other food products	6,8	4,4
Beverages	4,3	4,6
Textiles, clothing, leather and footwear	5,4	7,8
Textiles	1,2	1,7
Other textile products	1,2	1,2
Knitted, crocheted articles	0,3	0,6
Wearing apparel	2,0	3,0
Tanning, dressing of leather	0,3	0,4
Footwear	0,4	0,9
Wood and wood products, paper, publishing and printing	11,0	11,4
Sawmilling and planing of wood	0,7	0,8
Products of wood	1,0	1,2
Paper and paper products	4,8	5,3
Publishing	2,4	1,5
Printing, recorded media	2,1	2,6
Petroleum, chemical products, rubber and plastic products	22,5	19,3
Petroleum products	9,1	4,2
Basic chemicals	4,0	4,5
Other chemical products	5,4	6,2
Rubber products	1,1	1,4
Plastic products	3,0	3,1
Glass and non-metallic mineral products	3,9	4,5
Glass and glass products	1,1	1,0
Non-metallic mineral products	2,9	3,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,4	23,6
Basic iron and steel products	5,5	7,6
Non-ferrous metal products	4,7	3,2
Structural metal products	1,3	2,4
Other fabricated metal products	4,2	4,6
General purpose machinery	2,4	2,5
Special purpose machinery	3,2	2,9
Household appliances	1,2	0,4
Electrical machinery	2,7	3,4
Radio, television and communication apparatus and professional equipment	1,3	1,5
Radio, television and communication apparatus	0,7	1,0
Professional equipment	0,6	0,5
Motor vehicles, parts and accessories and other transport equipment	8,6	9,1
Motor vehicles	4,1	4,5
Bodies for motor vehicles, trailers and semi-trailers	0,4	0,5
Parts and accessories	3,1	3,0
Other transport equipment	1,0	1,0
Other manufacturing divisions	5,8	4,1
Furniture	1,6	1,6
Other manufacturing groups	4,2	2,6
Total	100,0	100,0

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**Enquiries**

Telephone number: (012) 310 8600/8390/8351/4892/8496/8095 (user information services)  
(012) 310 8233/8249 (technical enquiries)  
(012) 310 8161 (orders)  
(012) 310 4883/4885/8018 (library)

Fax number: (012) 310 8664 (technical enquiries)

Email address: [Teresam@statssa.gov.za](mailto:Teresam@statssa.gov.za) (technical enquiries)  
[info@statssa.gov.za](mailto:info@statssa.gov.za) (user information services)  
[distribution@statssa.gov.za](mailto:distribution@statssa.gov.za) (orders)

Postal address: Private Bag X44, Pretoria, 0001

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