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# Manufacturing: Production and sales (Preliminary)

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## SUMMARY OF FINDINGS: MANUFACTURING PRODUCTION AND SALES

**Table A – Selected key figures regarding manufacturing production and sales for May 2008**

Estimates	May 2008	% change between May 2007 and May 2008	% change between March to May 2007 and March to May 2008	% change between January to May 2007 and January to May 2008
Physical volume of manufacturing production index (2000=100)	129,0	0,7	3,0	2,9
Total value of sales of manufactured products (R million)	113 644	18,6	20,7	18,4

Seasonally adjusted estimates	May 2008	% change between April and May 2008	% change between December 2007 to February 2008 and March to May 2008
Physical volume of manufacturing production index (2000=100)	128,1	-3,8	2,0
Total value of sales of manufactured products (R million)	112 406	-3,9	10,4

### Manufacturing production increases

*In the first five months of 2008, manufacturing production increased by 2,9% compared with the same period in 2007, but this was lower than the increase of 6,1% reported for the same period in 2007. Following a large increase of 10,2% in April 2008 compared with April 2007, manufacturing production increased by 0,7% in May 2008 compared with May 2007. The moderation in level of production in May 2008 is a result of a return to the normal production cycle that was not the case in April 2008 which had additional production days opposed to April 2007. The higher production in April 2008 is partly attributed to a longer working month in April 2008 compared with April 2007 due to the Easter period shifting from April 2007 to March 2008. The estimated seasonally adjusted manufacturing production for the three months ended May 2008 increased by 2,0% compared with the previous three months. Higher production levels were reported by eight of the ten manufacturing divisions.*

The major contributor to the seasonally adjusted increase of 2,0% in total manufacturing production for the three months ended May 2008 compared with the previous three months was the petroleum, chemical products, rubber and plastic products division (contributing +1,0 percentage point), followed by the food and beverages division (contributing +0,8 of a percentage point), the wood and wood products, paper, publishing and printing division (contributing +0,4 of a percentage point) and the electrical machinery division (contributing +0,2 of a percentage point) (see Table B).

**Table B – Contribution of manufacturing divisions and major groups to the total of seasonally adjusted manufacturing production**

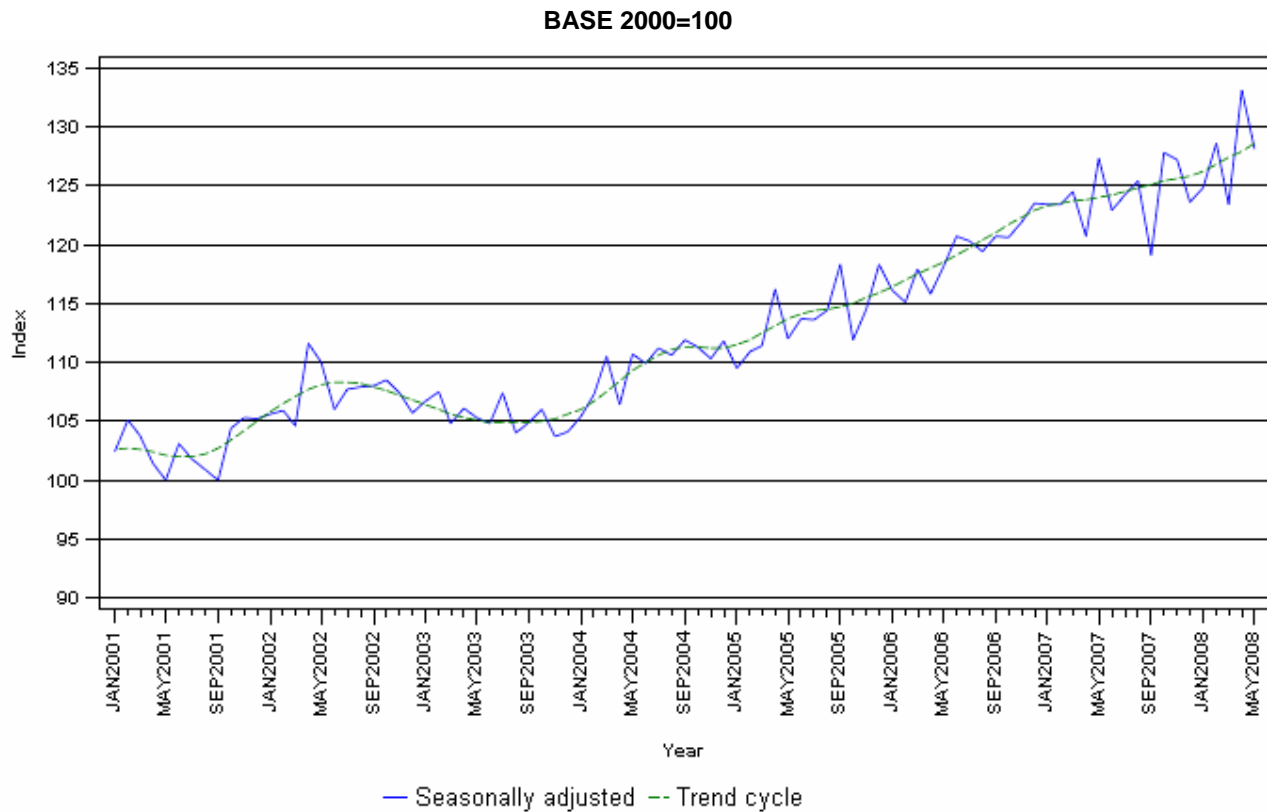
(Base 2000=100)

Manufacturing divisions and major groups	Percentage contribution to total manufacturing production using the weights according to large sample survey of the manufacturing industry, 2001	Average seasonally adjusted production index for December 2007 to February 2008	Average seasonally adjusted production index for March to May 2008	Quarterly percentage change of March to May 2008 compared with the preceding three months	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
<b>Food and beverages</b>	16,4	124,5	130,5	4,8	0,8
-Food and food products	12,1	119,2	125,1	4,9	0,6
-Beverages	4,3	139,4	145,4	4,3	0,2
<b>Textiles, clothing, leather and footwear</b>	5,4	104,3	105,3	1,0	0,1
-Textiles	2,4	99,5	97,3	-2,2	-0,1
-Wearing apparel	2,3	113,5	116,6	2,7	0,1
-Leather and leather products	0,3	105,7	108,2	2,4	0,0
-Footwear	0,4	83,0	88,4	6,5	0,0
<b>Wood and wood products, paper, publishing and printing</b>	11,0	116,1	120,3	3,6	0,4
-Wood and products of wood	1,7	120,1	128,1	6,7	0,1
-Paper and paper products	4,8	119,2	126,4	6,0	0,3
-Publishing and printing	4,6	111,2	111,0	-0,2	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	22,5	128,5	134,0	4,3	1,0
-Coke, petroleum products and nuclear fuel	9,1	99,5	99,7	0,2	0,0
-Basic chemicals	4,0	156,7	177,2	13,1	0,5
-Other chemical products	5,4	138,7	147,0	6,0	0,3
-Rubber products	1,1	86,1	89,2	3,6	0,0
-Plastic products	3,0	177,4	175,0	-1,4	0,0
<b>Glass and non-metallic mineral products</b>	3,9	142,8	141,6	-0,8	0,0
-Glass and glass products	1,1	166,7	166,1	-0,4	0,0
-Non-metallic mineral products	2,9	134,0	132,5	-1,1	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	22,4	124,6	124,9	0,2	0,0
-Basic iron and steel products	5,5	107,0	106,7	-0,3	0,0
-Basic precious, non-ferrous metal products	4,7	118,5	113,2	-4,5	-0,2
-Fabricated metal products	5,5	136,4	146,1	7,1	0,4
-Machinery and equipment	6,7	133,7	130,9	-2,1	-0,1
Electrical machinery	2,7	112,4	119,8	6,6	0,2
<b>Radio, television and communication apparatus and professional equipment</b>	1,3	112,9	119,1	5,5	0,1
-Radio, television and communication apparatus	0,7	100,0	109,6	9,6	0,1
-Professional equipment	0,6	125,9	128,6	2,1	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	8,6	147,1	148,4	0,9	0,1
-Motor vehicles, trailers, parts and accessories	7,6	152,8	153,8	0,7	0,1
-Other transport equipment	1,0	103,3	106,3	2,9	0,0
<b>Furniture and other manufacturing division</b>	5,8	126,4	115,2	-8,9	-0,5
-Furniture	1,6	143,5	140,7	-2,0	0,0
-Other manufacturing groups	4,2	120,0	105,6	-12,0	-0,5
<b>Total</b>	<b>100,0</b>	<b>125,7</b>	<b>128,2</b>	<b>2,0</b>	<b>2,0</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.

Figure 1 shows the seasonally adjusted and trend series for the volume index of manufacturing production between January 2001 and May 2008.

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



**Seasonally adjusted sales of manufactured products increase**

***The estimated total value of sales of manufactured products at current prices for the three months ended May 2008 increased by 10,4% (R31 645 million), after seasonal adjustment, compared with the previous three months. Higher manufacturing sales were reported by all ten manufacturing divisions during this period (see Table C).***

The seasonally adjusted increase of 10,4% in the total value of sales of manufactured products at current prices for the three months ended May 2008 compared with the previous three months was mainly due to increases reported for the motor vehicles, parts and accessories and other transport equipment division (+14,9% or +R6 783 million), the basic iron and steel, non-ferrous metal products, metal products and machinery division (+14,0% or +R9 423 million), the petroleum, chemical products, rubber and plastic products division (+12,9% or + R8 812 million) and the food and beverages division (+5,9% or +R3 099 million) (see Table C).

**Table C – 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 December 2007 to February 2008	Seasonally adjusted sales March to May 2008	Percentage change between December 2007 to February 2008 and March to May 2008	Difference in seasonally adjusted sales of manufacturing divisions between December 2007 to February 2008 and March to May 2008
	R '000	R '000		R '000
<b>Food and beverages</b>	52 267 243	55 366 384	5,9	3 099 141
-Food and food products	39 327 402	41 808 121	6,3	2 480 719
-Beverages	12 939 839	13 558 265	4,8	618 426
<b>Textiles, clothing, leather and footwear</b>	10 733 192	10 800 973	0,6	67 781
-Textiles	4 317 753	4 357 386	0,9	39 633
-Wearing apparel	4 382 005	4 378 145	-0,1	-3 860
-Leather and leather products	1 290 151	1 311 731	1,7	21 580
-Footwear	743 282	753 712	1,4	10 430
<b>Wood and wood products, paper, publishing and printing</b>	24 207 390	25 672 761	6,1	1 465 371
-Wood and products of wood	5 311 275	5 614 791	5,7	303 516
-Paper and paper products	10 941 846	11 804 955	7,9	863 109
-Publishing and printing	7 954 270	8 253 016	3,8	298 746
<b>Petroleum, chemicals products, rubber and plastic products</b>	68 152 440	76 964 340	12,9	8 811 900
-Coke, petroleum products and nuclear fuel	27 215 333	31 694 990	16,5	4 479 657
-Basic chemicals	15 047 101	18 037 042	19,9	2 989 941
-Other chemical products	14 133 724	14 807 395	4,8	673 671
-Rubber products	2 640 194	2 958 666	12,1	318 472
-Plastic products	9 116 090	9 466 248	3,8	350 158
<b>Glass and non-metallic mineral products</b>	8 673 955	8 997 592	3,7	323 637
-Glass and glass products	1 563 688	1 561 917	-0,1	-1 771
-Non-metallic mineral products	7 110 267	7 435 675	4,6	325 408
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	67 309 751	76 732 547	14,0	9 422 796
-Basic iron and steel products	28 608 810	35 196 633	23,0	6 587 823
-Basic precious, non-ferrous metal products	9 501 140	10 427 767	9,8	926 627
-Fabricated metal products	13 933 226	16 091 311	15,5	2 158 085
-Machinery and equipment	15 266 576	15 016 836	-1,6	-249 740
Electrical machinery	9 593 731	10 426 719	8,7	832 988
<b>Radio, television and communication apparatus and professional equipment</b>	3 442 910	3 648 877	6,0	205 967
-Radio, television and communication apparatus	1 973 295	2 078 874	5,4	105 579
-Professional equipment	1 469 615	1 570 002	6,8	100 387
<b>Motor vehicles, parts and accessories and other transport equipment</b>	45 610 240	52 393 317	14,9	6 783 077
-Motor vehicles, trailers, parts and accessories	42 181 911	48 686 058	15,4	6 504 147
-Other transport equipment	3 428 329	3 707 260	8,1	278 931
<b>Furniture and other manufacturing division</b>	14 264 625	14 896 672	4,4	632 047
-Furniture	2 950 902	2 896 679	-1,8	-54 223
-Other manufacturing groups	11 313 722	11 999 992	6,1	686 270
<b>Total</b>	<b>304 255 475</b>	<b>335 900 180</b>	<b>10,4</b>	<b>31 644 705</b>

**Sales of manufactured products increase**

*The value of sales of manufactured products at current prices for the three months ended May 2008 was 20,7% (R57 099 million) higher than for the three months ended May 2007 (see Table D). Increased sales were reflected in all divisions.*

The major contributors to the increase of 20,7% in sales of manufactured products at current prices for the three months ended May 2008 compared with the three months ended May 2007 were the petroleum, chemical products, rubber and plastic products division (+7,1 percentage points or +R19 663 million), the basic iron and steel, non-ferrous metal products, metal products and machinery division (+4,8 percentage points or +R13 083 million), the food and beverages division (+3,4 percentage points or +R9 340 million) and the motor vehicles, parts and accessories and other transport equipment division (+2,8 percentage points or +R7 617 million) (see Table D).

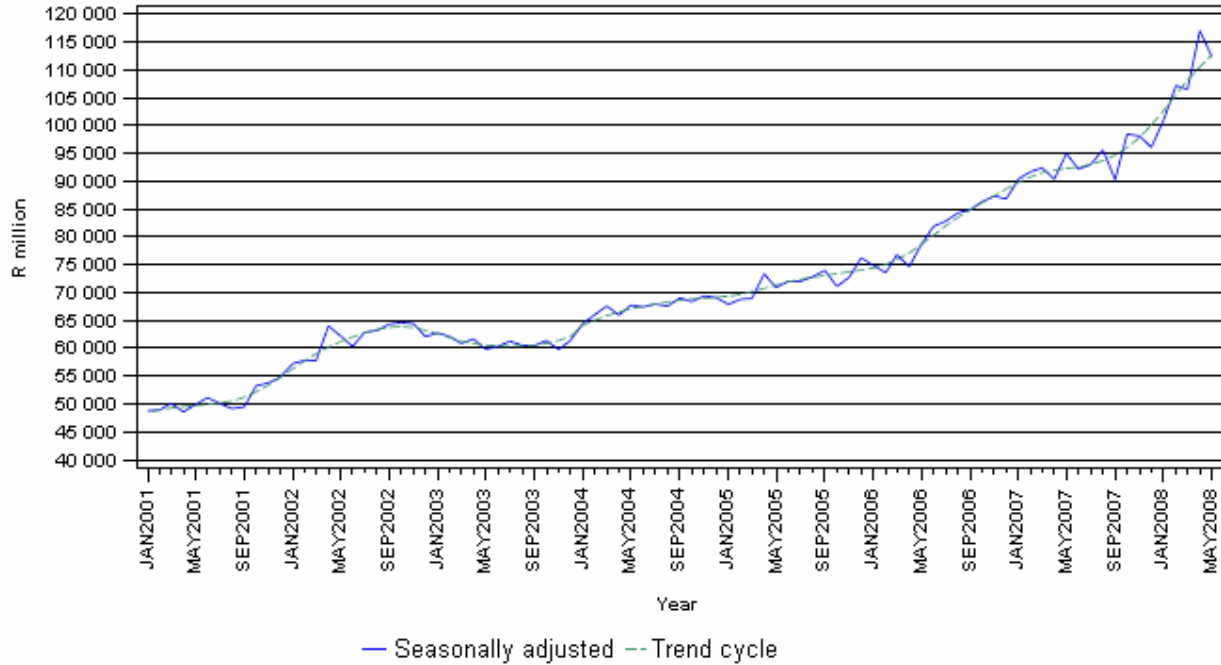
**Table D – Contribution of the manufacturing divisions and major groups to the total value of sales of manufactured products at current prices**

Manufacturing divisions and major groups	Percentage contribution to total value of sales of manufactured products March to May 2007	Percentage change between March to May 2007 and March to May 2008	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions between March to May 2007 and March to May 2008
				R '000
Food and beverages	16,3	20,8	3,4	9 340 361
-Food and food products	12,1	24,7	3,0	8 227 933
-Beverages	4,2	9,5	0,4	1 112 428
Textiles, clothing, leather and footwear	3,7	7,6	0,3	772 584
-Textiles	1,6	1,9	0,0	84 991
-Wearing apparel	1,4	11,8	0,2	467 651
-Leather and leather products	0,4	11,6	0,0	138 263
-Footwear	0,2	12,7	0,0	81 679
Wood and wood products, paper, publishing and printing	8,2	11,0	0,9	2 506 046
-Wood and products of wood	1,8	11,4	0,2	566 449
-Paper and paper products	3,6	16,8	0,6	1 651 627
-Publishing and printing	2,9	3,7	0,1	287 970
Petroleum, chemicals products, rubber and plastic products	20,7	34,5	7,1	19 663 186
-Coke, petroleum products and nuclear fuel	7,3	57,6	4,2	11 644 668
-Basic chemicals	4,5	42,8	1,9	5 290 489
-Other chemical products	5,0	8,2	0,4	1 126 527
-Rubber products	1,0	15,1	0,2	396 402
-Plastic products	2,9	14,9	0,4	1 205 100
Glass and non-metallic mineral products	3,0	5,7	0,2	475 681
-Glass and glass products	0,5	3,6	0,0	50 122
-Non-metallic mineral products	2,5	6,1	0,2	425 559
Basic iron and steel, non-ferrous metal products, metal products and machinery	23,2	20,5	4,8	13 082 714
-Basic iron and steel products	9,2	38,9	3,6	9 893 268
-Basic precious, non-ferrous metal products	3,7	3,4	0,1	349 056
-Fabricated metal products	4,9	19,4	1,0	2 617 999
-Machinery and equipment	5,3	1,5	0,1	222 391
Electrical machinery	3,2	19,4	0,6	1 695 201
Radio, television and communication apparatus and professional equipment	1,2	4,9	0,1	165 437
-Radio, television and communication apparatus	0,7	5,1	0,0	97 488
-Professional equipment	0,5	4,6	0,0	67 949
Motor vehicles, parts and accessories and other transport equipment	15,9	17,4	2,8	7 616 532
-Motor vehicles, trailers, parts and accessories	14,7	17,6	2,6	7 147 190
-Other transport equipment	1,2	14,1	0,2	469 342
Furniture and other manufacturing division	4,6	14,1	0,6	1 780 836
-Furniture	1,0	1,6	0,0	43 767
-Other manufacturing groups	3,6	17,6	0,6	1 737 069
<b>Total</b>	<b>100,0</b>	<b>20,7</b>	<b>20,7</b>	<b>57 098 578</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 2007, divided by 100.

Figure 2 shows the seasonally adjusted and trend series for sales of manufactured products between January 2001 and May 2008.

**Figure 2 – Total value of sales of manufactured products at current prices**



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**Detailed results: Tables**

**Table 1 – Index of the physical volume of manufacturing production: Total**

**Base 2000 = 100**

Month	2002	2003	2004	2005	2006	2007	2008
Jan	93,7	94,4	93,1	96,2	101,7	107,6	108,8
Feb	103,6	104,3	103,6	106,3	110,1	118,2	122,8
Mar	108,2	108,4	114,1	114,9	121,4	128,3	1/ 126,9
Apr	104,4	100,0	100,3	109,2	109,2	113,9	1/ 125,5
May	110,3	105,7	111,6	112,8	118,9	128,1	1/ 129,0
Jun	106,7	105,3	110,5	114,3	121,4	123,7	
Jul	108,8	108,7	113,0	115,5	122,2	126,1	
Aug	109,8	106,3	113,7	118,2	123,8	130,1	
Sep	111,4	108,7	116,0	122,9	125,5	123,9	
Oct	119,6	116,7	122,5	123,2	132,6	140,3	
Nov	119,8	114,9	122,3	127,1	135,4	141,1	
Dec	92,7	91,5	99,0	104,6	109,3	109,5	
Year	107,4	105,4	110,0	113,8	119,3	124,2	

1/ Preliminary.

**Table 2 – Annual percentage change in the index of the physical volume of manufacturing production: Total**

Month	2002	2003	2004	2005	2006	2007	2008
Jan	-	0,7	-1,4	3,3	5,7	5,8	1,1
Feb	-	0,7	-0,7	2,6	3,6	7,4	3,9
Mar	-	0,2	5,3	0,7	5,7	5,7	-1,1
Apr	-	-4,2	0,3	8,9	0,0	4,3	10,2
May	-	-4,2	5,6	1,1	5,4	7,7	0,7
Jun	-	-1,3	4,9	3,4	6,2	1,9	
Jul	-	-0,1	4,0	2,2	5,8	3,2	
Aug	-	-3,2	7,0	4,0	4,7	5,1	
Sep	-	-2,4	6,7	5,9	2,1	-1,3	
Oct	-	-2,4	5,0	0,6	7,6	5,8	
Nov	-	-4,1	6,4	3,9	6,5	4,2	
Dec	-	-1,3	8,2	5,7	4,5	0,2	
Year	-	-1,9	4,4	3,5	4,8	4,1	

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

**Table 3 – Seasonally adjusted index of the physical volume of manufacturing production: Total**

Month	2002	2003	2004	2005	2006	2007	2008
Jan	105,8	107,0	105,4	109,5	116,1	123,4	124,8
Feb	105,9	107,6	107,3	110,9	115,1	123,4	128,6
Mar	104,6	104,8	110,5	111,4	117,9	124,5	123,4
Apr	112,0	106,7	106,4	116,2	115,8	120,7	133,1
May	109,9	105,1	110,7	112,0	118,1	127,3	128,1
Jun	106,0	104,7	109,9	113,7	120,7	122,9	
Jul	107,4	107,2	111,2	113,6	120,3	124,2	
Aug	107,7	103,8	110,6	114,4	119,4	125,4	
Sep	108,0	105,0	111,9	118,3	120,7	119,1	
Oct	108,6	106,0	111,3	111,9	120,6	127,8	
Nov	107,6	103,8	110,3	114,5	121,9	127,2	
Dec	105,2	103,2	111,8	118,3	123,5	123,6	

**Table 4a – 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 2007	Indices			Seasonally adjusted indices		
			May 2007	1/ April 2008	1/ May 2008	May 2007	April 2008	May 2008
<b>Food and beverages</b>	16,4	124,5	132,5	127,3	135,4	133,7	134,7	136,4
-Meat, fish, fruit etc.	2,6	130,7	137,9	146,0	142,6	132,8	151,3	137,1
-Dairy products	1,1	112,3	103,0	105,3	107,4	111,9	110,7	116,8
-Grain mill products	1,5	129,4	134,8	133,5	135,7	129,9	133,7	130,7
-Other food products	6,8	111,2	128,9	115,3	137,8	125,5	122,9	134,2
-Beverages	4,3	143,1	142,0	138,4	134,6	154,2	150,0	146,7
<b>Textiles, clothing, leather and footwear</b>	5,4	102,6	102,4	105,8	107,7	101,5	108,1	107,0
-Textiles	1,2	80,0	87,6	78,5	80,5	82,8	82,4	76,3
-Other textile products	1,2	119,5	115,7	121,5	122,4	116,0	122,9	123,2
-Knitted, crocheted articles	0,3	82,6	91,6	91,5	99,5	81,3	92,7	88,5
-Wearing apparel	2,0	113,8	111,0	119,2	121,5	112,8	120,1	123,2
-Leather and leather products	0,3	101,6	99,4	109,0	108,3	98,1	111,1	107,7
-Footwear	0,4	84,9	80,0	87,6	88,1	81,0	95,2	88,7
<b>Wood and wood products, paper, publishing and printing</b>	11,0	117,5	117,9	115,0	121,0	117,5	121,4	120,7
-Sawmilling and planing of wood	0,7	116,4	123,4	118,2	117,6	122,7	124,5	117,0
-Products of wood	1,0	134,9	133,0	138,0	133,0	132,5	145,1	133,0
-Paper and paper products	4,8	113,5	117,7	122,4	130,8	116,7	127,6	129,4
-Publishing	2,4	123,9	118,2	104,6	111,9	121,3	113,6	115,3
-Printing, recorded media	2,1	111,4	109,4	98,7	105,2	106,5	104,6	102,8
<b>Petroleum, chemical products, rubber and plastic products</b>	22,5	124,1	124,7	134,3	136,5	123,1	137,9	134,8
-Coke, petroleum products and nuclear fuel	9,1	97,0	92,7	102,0	100,8	92,0	101,6	100,2
-Basic chemicals	4,0	142,3	145,1	170,9	183,1	145,1	179,1	182,7
-Other chemical products	5,4	139,6	143,1	149,7	150,4	140,1	154,2	147,3
-Rubber products	1,1	82,9	91,2	90,1	96,9	84,8	93,5	90,6
-Plastic products	3,0	170,6	175,0	173,8	173,6	172,9	181,6	171,2
<b>Glass and non-metallic mineral products</b>	3,9	136,6	147,8	140,1	141,9	147,4	144,9	141,7
-Glass and glass products	1,1	155,0	152,2	158,9	157,9	158,8	169,6	164,1
-Non-metallic mineral products	2,9	129,7	146,2	133,1	136,0	143,1	135,8	133,4
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	22,4	126,3	131,6	120,3	124,2	129,9	128,1	122,6
-Basic iron and steel products	5,5	111,8	123,1	108,3	111,5	115,4	107,8	104,2
-Non-ferrous metal products	4,7	118,9	123,1	113,2	117,2	121,0	115,9	115,3
-Structural metal products	1,3	137,7	140,0	135,7	163,4	130,6	149,8	153,4
-Other fabricated metal products	4,2	140,7	143,1	138,9	145,6	141,5	151,4	143,9
-General purpose machinery	2,4	119,8	127,9	110,8	107,5	127,0	115,7	107,1
-Special purpose machinery	3,2	143,0	137,0	125,5	124,4	149,6	149,7	135,9
-Household appliances	1,2	130,0	148,6	128,1	126,0	146,7	134,1	124,9
-Electrical machinery	2,7	106,6	110,4	120,9	119,2	107,9	126,5	116,5
<b>Radio, television and communication apparatus and professional equipment</b>	1,3	116,9	114,3	108,1	114,6	119,2	120,1	119,2
-Radio, television and communication apparatus	0,7	100,3	98,8	97,4	101,0	107,8	109,9	108,7
-Professional equipment	0,6	133,7	130,0	118,9	128,4	130,8	130,4	129,8
<b>Motor vehicles, parts and accessories and other transport equipment</b>	8,6	144,7	155,6	150,3	144,3	149,6	165,9	138,6
-Motor vehicles	4,1	140,7	150,6	136,6	136,2	144,9	155,6	131,0
-Bodies for motor vehicles, trailers and semi-trailers	0,4	218,2	246,5	236,8	252,8	238,8	264,4	245,1
-Parts and accessories	3,1	154,5	167,6	171,2	158,5	159,0	183,4	150,6
-Other transport equipment	1,0	103,1	104,9	109,0	92,5	105,4	117,0	92,4
<b>Furniture and other manufacturing division</b>	5,8	120,1	116,7	104,1	112,1	122,2	123,5	116,7
-Furniture	1,6	142,6	140,9	135,3	139,9	141,8	148,9	141,3
-Other manufacturing groups	4,2	111,6	107,5	92,3	101,6	114,8	114,0	107,4
<b>Total</b>	<b>100,0</b>	<b>124,2</b>	<b>128,1</b>	<b>125,5</b>	<b>129,0</b>	<b>127,3</b>	<b>133,1</b>	<b>128,1</b>

1/ Preliminary.

**Table 4b – 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 2007	Indices			Seasonally adjusted indices		
			May 2007	1/ May 2008	Percentage difference between May 2007 and May 2008	April 2008	May 2008	Percentage difference between April and May 2008
Food and beverages	16,4	124,5	132,5	135,4	2,2	134,7	136,4	1,3
-Meat, fish, fruit etc.	2,6	130,7	137,9	142,6	3,4	151,3	137,1	-9,4
-Dairy products	1,1	112,3	103,0	107,4	4,3	110,7	116,8	5,5
-Grain mill products	1,5	129,4	134,8	135,7	0,7	133,7	130,7	-2,2
-Other food products	6,8	111,2	128,9	137,8	6,9	122,9	134,2	9,2
-Beverages	4,3	143,1	142,0	134,6	-5,2	150,0	146,7	-2,2
Textiles, clothing, leather and footwear	5,4	102,6	102,4	107,7	5,2	108,1	107,0	-1,0
-Textiles	1,2	80,0	87,6	80,5	-8,1	82,4	76,3	-7,4
-Other textile products	1,2	119,5	115,7	122,4	5,8	122,9	123,2	0,2
-Knitted, crocheted articles	0,3	82,6	91,6	99,5	8,6	92,7	88,5	-4,5
-Wearing apparel	2,0	113,8	111,0	121,5	9,5	120,1	123,2	2,6
-Leather and leather products	0,3	101,6	99,4	108,3	9,0	111,1	107,7	-3,1
-Footwear	0,4	84,9	80,0	88,1	10,1	95,2	88,7	-6,8
Wood and wood products, paper, publishing and printing	11,0	117,5	117,9	121,0	2,6	121,4	120,7	-0,6
-Sawmilling and planing of wood	0,7	116,4	123,4	117,6	-4,7	124,5	117,0	-6,0
-Products of wood	1,0	134,9	133,0	133,0	0,0	145,1	133,0	-8,3
-Paper and paper products	4,8	113,5	117,7	130,8	11,1	127,6	129,4	1,4
-Publishing	2,4	123,9	118,2	111,9	-5,3	113,6	115,3	1,5
-Printing, recorded media	2,1	111,4	109,4	105,2	-3,8	104,6	102,8	-1,7
Petroleum, chemical products, rubber and plastic products	22,5	124,1	124,7	136,5	9,5	137,9	134,8	-2,2
-Coke, petroleum products and nuclear fuel	9,1	97,0	92,7	100,8	8,7	101,6	100,2	-1,4
-Basic chemicals	4,0	142,3	145,1	183,1	26,2	179,1	182,7	2,0
-Other chemical products	5,4	139,6	143,1	150,4	5,1	154,2	147,3	-4,5
-Rubber products	1,1	82,9	91,2	96,9	6,3	93,5	90,6	-3,1
-Plastic products	3,0	170,6	175,0	173,6	-0,8	181,6	171,2	-5,7
Glass and non-metallic mineral products	3,9	136,6	147,8	141,9	-4,0	144,9	141,7	-2,2
-Glass and glass products	1,1	155,0	152,2	157,9	3,7	169,6	164,1	-3,2
-Non-metallic mineral products	2,9	129,7	146,2	136,0	-7,0	135,8	133,4	-1,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,4	126,3	131,6	124,2	-5,6	128,1	122,6	-4,3
-Basic iron and steel products	5,5	111,8	123,1	111,5	-9,4	107,8	104,2	-3,3
-Non-ferrous metal products	4,7	118,9	123,1	117,2	-4,8	115,9	115,3	-0,5
-Structural metal products	1,3	137,7	140,0	163,4	16,7	149,8	153,4	2,4
-Other fabricated metal products	4,2	140,7	143,1	145,6	1,7	151,4	143,9	-5,0
-General purpose machinery	2,4	119,8	127,9	107,5	-15,9	115,7	107,1	-7,4
-Special purpose machinery	3,2	143,0	137,0	124,4	-9,2	149,7	135,9	-9,2
-Household appliances	1,2	130,0	148,6	126,0	-15,2	134,1	124,9	-6,9
Electrical machinery	2,7	106,6	110,4	119,2	8,0	126,5	116,5	-7,9
Radio, television and communication apparatus and professional equipment	1,3	116,9	114,3	114,6	0,3	120,1	119,2	-0,7
-Radio, television and communication apparatus	0,7	100,3	98,8	101,0	2,2	109,9	108,7	-1,1
-Professional equipment	0,6	133,7	130,0	128,4	-1,2	130,4	129,8	-0,5
Motor vehicles, parts and accessories and other transport equipment	8,6	144,7	155,6	144,3	-7,3	165,9	138,6	-16,5
-Motor vehicles	4,1	140,7	150,6	136,2	-9,6	155,6	131,0	-15,8
-Bodies for motor vehicles, trailers and semi-trailers	0,4	218,2	246,5	252,8	2,6	264,4	245,1	-7,3
-Parts and accessories	3,1	154,5	167,6	158,5	-5,4	183,4	150,6	-17,9
-Other transport equipment	1,0	103,1	104,9	92,5	-11,8	117,0	92,4	-21,0
Furniture and other manufacturing division	5,8	120,1	116,7	112,1	-3,9	123,5	116,7	-5,5
-Furniture	1,6	142,6	140,9	139,9	-0,7	148,9	141,3	-5,1
-Other manufacturing groups	4,2	111,6	107,5	101,6	-5,5	114,0	107,4	-5,8
<b>Total</b>	<b>100,0</b>	<b>124,2</b>	<b>128,1</b>	<b>129,0</b>	<b>0,7</b>	<b>133,1</b>	<b>128,1</b>	<b>-3,8</b>

1/ Preliminary.

**Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000)**

Month	2002	2003	2004	2005	2006	2007	2008
Jan	49 152 814	54 016 877	54 677 576	57 579 366	63 693 706	77 253 608	86 813 571
Feb	57 530 894	61 544 562	63 772 089	66 251 198	70 758 982	88 142 916	102 567 142
Mar	61 291 760	64 082 291	69 432 309	70 644 727	78 541 964	94 413 107	1/ 108 418 004
Apr	61 619 502	59 904 600	62 483 652	69 282 353	70 410 213	85 289 603	1/ 110 581 240
May	63 820 095	61 503 788	68 142 813	71 278 474	79 112 653	95 842 149	1/ 113 644 193
Jun	62 396 131	62 129 864	67 898 336	72 555 903	82 365 603	92 828 745	
Jul	64 152 749	62 617 180	68 406 575	72 671 036	83 516 902	93 655 073	
Aug	65 615 474	62 622 871	69 213 723	75 018 367	87 085 746	98 909 157	
Sep	68 068 479	64 217 058	72 338 062	77 775 725	89 103 179	94 735 842	
Oct	72 388 326	68 820 949	74 868 256	77 778 702	94 226 447	107 266 948	
Nov	72 814 163	67 559 894	77 110 142	81 266 703	97 461 923	109 646 608	
Dec	58 364 614	57 324 718	63 142 536	69 279 984	78 315 754	86 990 808	
Year	757 215 001	746 344 652	811 486 069	861 382 538	974 593 072	1 124 974 564	

1/ Preliminary.

**Table 6 – Annual percentage change in the value of sales of the manufacturing industry: Total**

Month	2002	2003	2004	2005	2006	2007	2008
Jan	-	9,9	1,2	5,3	10,6	21,3	12,4
Feb	-	7,0	3,6	3,9	6,8	24,6	16,4
Mar	-	4,6	8,3	1,7	11,2	20,2	14,8
Apr	-	-2,8	4,3	10,9	1,6	21,1	29,7
May	-	-3,6	10,8	4,6	11,0	21,1	18,6
Jun	-	-0,4	9,3	6,9	13,5	12,7	
Jul	-	-2,4	9,2	6,2	14,9	12,1	
Aug	-	-4,6	10,5	8,4	16,1	13,6	
Sep	-	-5,7	12,6	7,5	14,6	6,3	
Oct	-	-4,9	8,8	3,9	21,1	13,8	
Nov	-	-7,2	14,1	5,4	19,9	12,5	
Dec	-	-1,8	10,1	9,7	13,0	11,1	
Year	-	-1,4	8,7	6,1	13,1	15,4	

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 7 – Total seasonally adjusted sales of the manufacturing industry (R'000)**

Month	2002	2003	2004	2005	2006	2007	2008
Jan	58 297 849	63 939 855	64 457 712	67 876 929	74 869 956	90 398 106	100 975 881
Feb	59 180 763	63 506 352	66 069 360	68 805 364	73 565 361	91 726 379	107 184 983
Mar	59 007 374	62 077 204	67 576 805	68 912 016	76 787 119	92 385 857	106 483 356
Apr	65 432 204	63 360 522	65 953 796	73 365 683	74 654 685	90 352 906	117 010 943
May	63 393 431	61 116 478	67 733 064	70 903 752	78 602 631	94 983 076	112 405 881
Jun	61 473 746	61 499 327	67 405 887	72 051 169	81 889 154	92 175 238	
Jul	64 119 396	62 445 471	67 938 667	72 001 649	82 791 710	92 978 077	
Aug	64 453 773	61 402 802	67 541 970	72 834 640	84 275 502	95 622 167	
Sep	65 478 974	61 467 968	69 039 281	73 978 672	84 817 480	90 287 604	
Oct	66 014 244	62 785 489	68 373 202	71 098 450	86 328 508	98 448 595	
Nov	65 695 198	60 809 266	69 396 041	72 726 832	87 326 699	98 140 946	
Dec	63 410 601	62 591 037	69 106 580	76 242 077	86 821 570	96 094 611	

**Table 8a – Sales of manufactured products according to manufacturing divisions and major groups (R'000)**

Manufacturing divisions and major groups	Year 2007	Actual values			Seasonally adjusted values		
		May 2007	1/ April 2008	1/ May 2008	May 2007	April 2008	May 2008
<b>Food and beverages</b>	190 699 869	15 441 678	18 328 973	17 994 282	15 778 019	19 214 154	18 328 573
-Meat, fish, fruit etc.	48 534 325	3 887 988	5 040 909	4 855 675	3 886 768	5 286 934	4 867 971
-Dairy products	16 370 695	1 199 722	1 510 251	1 486 827	1 266 524	1 578 137	1 573 625
-Grain mill products	35 351 201	2 973 267	3 711 002	3 772 213	2 896 549	3 729 943	3 664 190
-Other food products	40 383 997	3 450 128	3 784 755	3 815 862	3 422 460	3 885 225	3 771 038
-Beverages	50 059 651	3 930 573	4 282 056	4 063 705	4 305 718	4 733 915	4 451 751
<b>Textiles, clothing, leather and footwear</b>	41 463 312	3 411 909	3 604 264	3 662 920	3 383 542	3 687 104	3 641 269
-Textiles	6 541 155	585 369	545 042	583 064	549 877	540 716	550 124
-Other textile products	10 775 306	884 275	906 682	940 596	875 284	956 334	932 661
-Knitted, crocheted articles	1 812 329	173 594	170 631	194 463	148 696	172 214	167 003
-Wearing apparel	14 691 677	1 159 709	1 304 301	1 269 594	1 195 080	1 308 206	1 307 122
-Leather and leather products	4 823 510	397 245	435 807	428 105	397 695	448 059	431 199
-Footwear	2 819 335	211 717	241 801	247 098	216 910	261 574	253 162
<b>Wood and wood products, paper, publishing and printing</b>	93 694 669	7 743 229	8 245 394	8 659 263	7 686 989	8 920 945	8 606 869
-Sawmilling and planing of wood	6 214 792	525 749	559 702	575 553	514 420	568 759	564 612
-Products of wood	14 225 883	1 154 464	1 319 972	1 307 653	1 154 819	1 376 755	1 312 200
-Paper and paper products	40 527 758	3 433 746	3 762 334	4 014 772	3 393 527	4 207 643	3 966 148
-Publishing	14 336 533	1 104 745	1 095 070	1 123 786	1 152 035	1 188 100	1 179 364
-Printing, recorded media	18 389 703	1 524 525	1 508 316	1 637 499	1 472 187	1 579 688	1 584 545
<b>Petroleum, chemical products, rubber and plastic products</b>	236 893 389	20 274 991	25 466 720	26 936 996	19 788 904	26 431 657	26 192 637
-Coke, petroleum products and nuclear fuel	86 358 423	7 633 359	10 511 960	11 552 556	7 232 155	10 785 356	10 922 586
-Basic chemicals	51 893 414	4 308 216	5 768 864	6 209 288	4 266 740	6 017 855	6 147 222
-Other chemical products	54 779 474	4 631 539	5 082 559	4 946 023	4 593 612	5 316 706	4 901 571
-Rubber products	10 217 878	904 345	1 001 075	1 031 369	887 594	1 021 660	1 015 607
-Plastic products	33 644 200	2 797 532	3 102 262	3 197 760	2 808 803	3 290 081	3 205 650
<b>Glass and non-metallic mineral products</b>	32 988 751	2 964 876	3 015 958	2 959 723	2 906 360	3 246 821	2 899 207
-Glass and glass products	5 834 297	494 728	501 867	463 518	522 299	550 114	488 183
-Non-metallic mineral products	27 154 454	2 470 148	2 514 091	2 496 205	2 384 061	2 696 707	2 411 024
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	251 388 035	22 653 708	25 363 129	26 567 086	22 130 443	26 407 216	25 899 710
-Basic iron and steel products	98 911 116	9 640 639	11 950 158	12 586 847	9 241 811	12 057 428	12 101 951
-Non-ferrous metal products	38 935 281	3 429 517	3 424 885	3 621 407	3 336 750	3 518 001	3 512 081
-Structural metal products	18 358 248	1 564 157	1 799 622	2 002 103	1 466 407	1 938 850	1 889 378
-Other fabricated metal products	36 524 531	3 119 295	3 586 898	3 620 661	3 051 881	3 790 691	3 531 214
-General purpose machinery	21 932 921	1 874 456	1 868 001	1 909 905	1 866 440	1 956 570	1 905 360
-Special purpose machinery	26 838 561	2 094 743	1 937 390	2 013 677	2 281 507	2 319 783	2 185 906
-Household appliances	9 887 377	930 901	796 175	812 486	885 647	825 893	773 820
<b>Electrical machinery</b>	35 204 763	3 025 651	3 463 551	3 461 681	2 959 148	3 657 670	3 389 237
<b>Radio, television and communication apparatus and professional equipment</b>	14 054 230	1 131 233	1 111 512	1 151 751	1 184 086	1 238 593	1 201 708
-Radio, television and communication apparatus	7 936 222	629 110	623 516	625 832	684 923	707 309	674 287
-Professional equipment	6 118 008	502 123	487 996	525 919	499 163	531 284	527 420
<b>Motor vehicles, parts and accessories and other transport equipment</b>	174 954 470	14 746 092	17 104 506	17 221 679	14 736 080	18 937 204	17 242 606
-Motor vehicles	88 029 955	7 179 373	8 092 193	8 564 687	7 351 690	9 505 721	8 808 622
-Bodies for motor vehicles, trailers and semi-trailers	7 595 045	658 692	711 675	731 052	647 542	778 767	718 590
-Parts and accessories	66 275 795	5 799 686	7 057 780	6 785 185	5 608 030	7 341 804	6 555 714
-Other transport equipment	13 053 675	1 108 341	1 242 858	1 140 755	1 128 818	1 310 911	1 159 681
<b>Furniture and other manufacturing division</b>	53 633 076	4 448 782	4 877 233	5 028 812	4 429 505	5 269 580	5 004 066
-Furniture	11 687 647	963 554	926 198	983 258	956 697	1 011 968	978 694
-Other manufacturing groups	41 945 429	3 485 228	3 951 035	4 045 554	3 472 808	4 257 612	4 025 371
<b>Total</b>	<b>1 124 974 564</b>	<b>95 842 149</b>	<b>110 581 240</b>	<b>113 644 193</b>	<b>94 983 076</b>	<b>117 010 943</b>	<b>112 405 881</b>

1/ Preliminary.

**Table 8b – Sales of manufactured products according to manufacturing divisions and major groups (R'000) (concluded)**

Manufacturing divisions and major groups	Year 2007	Value of sales			Seasonally adjusted value of sales		
		May 2007	1/ May 2008	Percentage change between May 2007 and May 2008	April 2008	May 2008	Percentage change between April and May 2008
<b>Food and beverages</b>	190 699 869	15 441 678	17 994 282	16,5	19 214 154	18 328 573	-4,6
-Meat, fish, fruit etc.	48 534 325	3 887 988	4 855 675	24,9	5 286 934	4 867 971	-7,9
-Dairy products	16 370 695	1 199 722	1 486 827	23,9	1 578 137	1 573 625	-0,3
-Grain mill products	35 351 201	2 973 267	3 772 213	26,9	3 729 943	3 664 190	-1,8
-Other food products	40 383 997	3 450 128	3 815 862	10,6	3 885 225	3 771 038	-2,9
-Beverages	50 059 651	3 930 573	4 063 705	3,4	4 733 915	4 451 751	-6,0
<b>Textiles, clothing, leather and footwear</b>	41 463 312	3 411 909	3 662 920	7,4	3 687 104	3 641 269	-1,2
-Textiles	6 541 155	585 369	583 064	-0,4	540 716	550 124	1,7
-Other textile products	10 775 306	884 275	940 596	6,4	956 334	932 661	-2,5
-Knitted, crocheted articles	1 812 329	173 594	194 463	12,0	172 214	167 003	-3,0
-Wearing apparel	14 691 677	1 159 709	1 269 594	9,5	1 308 206	1 307 122	-0,1
-Leather and leather products	4 823 510	397 245	428 105	7,8	448 059	431 199	-3,8
-Footwear	2 819 335	211 717	247 098	16,7	261 574	253 162	-3,2
<b>Wood and wood products, paper, publishing and printing</b>	93 694 669	7 743 229	8 659 263	11,8	8 920 945	8 606 869	-3,5
-Sawmilling and planing of wood	6 214 792	525 749	575 553	9,5	568 759	564 612	-0,7
-Products of wood	14 225 883	1 154 464	1 307 653	13,3	1 376 755	1 312 200	-4,7
-Paper and paper products	40 527 758	3 433 746	4 014 772	16,9	4 207 643	3 966 148	-5,7
-Publishing	14 336 533	1 104 745	1 123 786	1,7	1 188 100	1 179 364	-0,7
-Printing, recorded media	18 389 703	1 524 525	1 637 499	7,4	1 579 688	1 584 545	0,3
<b>Petroleum, chemical products, rubber and plastic products</b>	236 893 389	20 274 991	26 936 996	32,9	26 431 657	26 192 637	-0,9
-Coke, petroleum products and nuclear fuel	86 358 423	7 633 359	11 552 556	51,3	10 785 356	10 922 586	1,3
-Basic chemicals	51 893 414	4 308 216	6 209 288	44,1	6 017 855	6 147 222	2,1
-Other chemical products	54 779 474	4 631 539	4 946 023	6,8	5 316 706	4 901 571	-7,8
-Rubber products	10 217 878	904 345	1 031 369	14,0	1 021 660	1 015 607	-0,6
-Plastic products	33 644 200	2 797 532	3 197 760	14,3	3 290 081	3 205 650	-2,6
-Glass and non-metallic mineral products	32 988 751	2 964 876	2 959 723	-0,2	3 246 821	2 899 207	-10,7
-Glass and glass products	5 834 297	494 728	463 518	-6,3	550 114	488 183	-11,3
-Non-metallic mineral products	27 154 454	2 470 148	2 496 205	1,1	2 696 707	2 411 024	-10,6
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	251 388 035	22 653 708	26 567 086	17,3	26 407 216	25 899 710	-1,9
-Basic iron and steel products	98 911 116	9 640 639	12 586 847	30,6	12 057 428	12 101 951	0,4
-Non-ferrous metal products	38 935 281	3 429 517	3 621 407	5,6	3 518 001	3 512 081	-0,2
-Structural metal products	18 358 248	1 564 157	2 002 103	28,0	1 938 850	1 889 378	-2,6
-Other fabricated metal products	36 524 531	3 119 295	3 620 661	16,1	3 790 691	3 531 214	-6,8
-General purpose machinery	21 932 921	1 874 456	1 909 905	1,9	1 956 570	1 905 360	-2,6
-Special purpose machinery	26 838 561	2 094 743	2 013 677	-3,9	2 319 783	2 185 906	-5,8
-Household appliances	9 887 377	930 901	812 486	-12,7	825 893	773 820	-6,3
-Electrical machinery	35 204 763	3 025 651	3 461 681	14,4	3 657 670	3 389 237	-7,3
<b>Radio, television and communication apparatus and professional equipment</b>	14 054 230	1 131 233	1 151 751	1,8	1 238 593	1 201 708	-3,0
-Radio, television and communication apparatus	7 936 222	629 110	625 832	-0,5	707 309	674 287	-4,7
-Professional equipment	6 118 008	502 123	525 919	4,7	531 284	527 420	-0,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	174 954 470	14 746 092	17 221 679	16,8	18 937 204	17 242 606	-8,9
-Motor vehicles	88 029 955	7 179 373	8 564 687	19,3	9 505 721	8 808 622	-7,3
-Bodies for motor vehicles, trailers and semi-trailers	7 595 045	658 692	731 052	11,0	778 767	718 590	-7,7
-Parts and accessories	66 275 795	5 799 686	6 785 185	17,0	7 341 804	6 555 714	-10,7
-Other transport equipment	13 053 675	1 108 341	1 140 755	2,9	1 310 911	1 159 681	-11,5
<b>Furniture and other manufacturing division</b>	53 633 076	4 448 782	5 028 812	13,0	5 269 580	5 004 066	-5,0
-Furniture	11 687 647	963 554	983 258	2,0	1 011 968	978 694	-3,3
-Other manufacturing groups	41 945 429	3 485 228	4 045 554	16,1	4 257 612	4 025 371	-5,5
<b>Total</b>	<b>1 124 974 564</b>	<b>95 842 149</b>	<b>113 644 193</b>	<b>18,6</b>	<b>117 010 943</b>	<b>112 405 881</b>	<b>-3,9</b>

1/ Preliminary.

**Table 9 – 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)		
		March to May 2007	March to May 2008	Annual percentage change between March to May 2007 and March to May 2008	March to May 2007	March to May 2008	Annual percentage change between March to May 2007 and March to May 2008
<b>Food and beverages</b>	16,4	122,6	128,1	4,5	44 930 868	54 271 229	20,8
-Meat, fish, fruit etc.	2,6	137,8	145,9	5,9	11 722 232	14 825 420	26,5
-Dairy products	1,1	108,5	107,8	-0,6	3 742 903	4 577 623	22,3
-Grain mill products	1,5	130,9	133,8	2,2	8 356 468	11 058 820	32,3
-Other food products	6,8	106,4	115,1	8,2	9 456 654	11 044 327	16,8
-Beverages	4,3	140,0	141,0	0,7	11 652 611	12 765 039	9,5
<b>Textiles, clothing, leather and footwear</b>	5,4	99,8	106,4	6,6	10 205 011	10 977 595	7,6
-Textiles	1,2	82,2	76,3	-7,2	1 682 643	1 646 747	-2,1
-Other textile products	1,2	117,4	123,0	4,8	2 711 432	2 832 319	4,5
-Knitted, crocheted articles	0,3	85,7	93,7	9,3	487 696	542 214	11,2
-Wearing apparel	2,0	106,7	120,9	13,3	3 484 106	3 897 239	11,9
-Leather and leather products	0,3	101,2	112,4	11,1	1 197 036	1 335 299	11,6
-Footwear	0,4	80,2	85,7	6,9	642 098	723 777	12,7
<b>Wood and wood products, paper, publishing and printing</b>	11,0	116,1	118,8	2,3	22 683 772	25 189 818	11,0
-Sawmilling and planing of wood	0,7	122,0	114,8	-5,9	1 559 605	1 671 650	7,2
-Products of wood	1,0	133,7	135,8	1,6	3 406 294	3 860 698	13,3
-Paper and paper products	4,8	111,5	124,5	11,7	9 838 584	11 490 211	16,8
-Publishing	2,4	122,1	114,1	-6,6	3 420 569	3 436 847	0,5
-Printing, recorded media	2,1	109,4	104,7	-4,3	4 458 720	4 730 412	6,1
<b>Petroleum, chemical products, rubber and plastic products</b>	22,5	121,8	133,9	9,9	57 026 780	76 689 966	34,5
-Coke, petroleum products and nuclear fuel	9,1	92,4	100,9	9,2	20 225 410	31 870 078	57,6
-Basic chemicals	4,0	137,3	173,0	26,0	12 374 917	17 665 406	42,8
-Other chemical products	5,4	142,4	148,3	4,1	13 730 217	14 856 744	8,2
-Rubber products	1,1	86,5	91,6	5,9	2 623 882	3 020 284	15,1
-Plastic products	3,0	167,6	173,2	3,3	8 072 354	9 277 454	14,9
<b>Glass and non-metallic mineral products</b>	3,9	139,7	138,7	-0,7	8 328 000	8 803 681	5,7
-Glass and glass products	1,1	147,7	155,9	5,6	1 387 901	1 438 023	3,6
-Non-metallic mineral products	2,9	136,7	132,4	-3,1	6 940 099	7 365 658	6,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	22,4	129,0	125,5	-2,7	63 791 473	76 874 187	20,5
-Basic iron and steel products	5,5	119,6	110,9	-7,3	25 441 825	35 335 093	38,9
-Non-ferrous metal products	4,7	121,1	114,6	-5,4	10 231 208	10 580 264	3,4
-Structural metal products	1,3	132,9	149,1	12,2	4 388 889	5 634 561	28,4
-Other fabricated metal products	4,2	142,2	145,2	2,1	9 073 604	10 445 931	15,1
-General purpose machinery	2,4	121,5	111,1	-8,6	5 417 202	5 715 269	5,5
-Special purpose machinery	3,2	140,5	140,9	0,3	6 613 871	6 720 454	1,6
-Household appliances	1,2	137,6	128,2	-6,8	2 624 874	2 442 615	-6,9
Electrical machinery	2,7	106,7	121,0	13,4	8 728 438	10 423 639	19,4
<b>Radio, television and communication apparatus and professional equipment</b>	1,3	110,8	113,9	2,8	3 376 693	3 542 130	4,9
-Radio, television and communication apparatus	0,7	97,1	103,7	6,8	1 898 036	1 995 524	5,1
-Professional equipment	0,6	124,7	124,1	-0,5	1 478 657	1 546 606	4,6
<b>Motor vehicles, parts and accessories and other transport equipment</b>	8,6	148,4	147,4	-0,7	43 844 869	51 461 401	17,4
-Motor vehicles	4,1	143,1	136,7	-4,5	21 396 664	25 412 009	18,8
-Bodies for motor vehicles, trailers and semi-trailers	0,4	223,7	239,8	7,2	1 945 743	2 107 734	8,3
-Parts and accessories	3,1	159,4	162,4	1,9	17 162 921	20 132 775	17,3
-Other transport equipment	1,0	107,2	109,6	2,2	3 339 541	3 808 883	14,1
<b>Furniture and other manufacturing division</b>	5,8	109,4	107,8	-1,5	12 628 955	14 409 791	14,1
-Furniture	1,6	134,5	134,4	-0,1	2 743 997	2 787 764	1,6
-Other manufacturing groups	4,2	99,9	97,8	-2,1	9 884 958	11 622 027	17,6
<b>Total</b>	<b>100,0</b>	<b>123,4</b>	<b>127,1</b>	<b>3,0</b>	<b>275 544 859</b>	<b>332 643 437</b>	<b>20,7</b>

**Table 10 – Annual percentage change in the physical volume of manufacturing production and value of sales according to manufacturing divisions and major groups**

Manufacturing divisions and major groups	Weights	Indices (base 2000=100)				Value of sales (R million)			
		Jan. to May 2007	Jan. to May 2008	Annual percentage change between 2007 and 2008	Contribution (percentage points)	Jan. to May 2007	Jan. to May 2008	Annual percentage change between 2007 and 2008	Difference in sales between 2007 and 2008
<b>Food and beverages</b>	16,4	117,6	121,7	3,5	0,6	72 557	87 059	20,0	14 502
-Meat, fish, fruit etc.	2,6	132,5	137,8	4,0	0,1	18 716	23 299	24,5	4 583
-Dairy products	1,1	110,3	110,8	0,5	0,0	6 252	7 602	21,6	1 350
-Grain mill products	1,5	128,6	129,3	0,5	0,0	13 149	17 533	33,3	4 384
-Other food products	6,8	96,2	103,9	8,0	0,5	14 973	17 487	16,8	2 514
-Beverages	4,3	140,3	140,2	-0,1	0,0	19 468	21 138	8,6	1 670
<b>Textiles, clothing, leather and footwear</b>	5,4	94,7	100,4	6,0	0,3	15 989	17 161	7,3	1 172
-Textiles	1,2	77,4	74,7	-3,5	0,0	2 590	2 609	0,7	19
-Other textile products	1,2	111,4	116,5	4,6	0,1	4 274	4 417	3,3	143
-Knitted, crocheted articles	0,3	81,9	86,6	5,7	0,0	749	824	10,0	75
-Wearing apparel	2,0	101,2	112,1	10,8	0,2	5 420	6 014	11,0	594
-Leather and leather products	0,3	99,7	110,9	11,2	0,0	1 965	2 202	12,1	237
-Footwear	0,4	74,6	77,9	4,4	0,0	991	1 095	10,5	104
<b>Wood and wood products, paper, publishing and printing</b>	11,0	112,8	114,1	1,2	0,1	36 440	39 999	9,8	3 559
-Sawmilling and planing of wood	0,7	118,9	109,8	-7,7	-0,1	2 532	2 649	4,6	117
-Products of wood	1,0	125,1	126,9	1,4	0,0	5 284	6 048	14,5	764
-Paper and paper products	4,8	108,4	119,3	10,1	0,5	15 805	18 263	15,6	2 458
-Publishing	2,4	120,5	111,6	-7,4	-0,2	5 682	5 601	-1,4	-81
-Printing, recorded media	2,1	106,3	100,8	-5,2	-0,1	7 138	7 438	4,2	300
<b>Petroleum, chemical products, rubber and plastic products</b>	22,5	118,2	128,6	8,8	2,0	91 130	118 571	30,1	27 441
-Coke, petroleum products and nuclear fuel	9,1	93,3	99,2	6,3	0,6	32 885	48 573	47,7	15 688
-Basic chemicals	4,0	132,9	162,4	22,2	0,9	19 740	27 135	37,5	7 395
-Other chemical products	5,4	134,5	140,2	4,2	0,2	21 539	23 391	8,6	1 852
-Rubber products	1,1	85,8	87,9	2,4	0,0	4 208	4 680	11,2	472
-Plastic products	3,0	158,0	168,3	6,5	0,2	12 758	14 792	15,9	2 034
<b>Glass and non-metallic mineral products</b>	3,9	131,1	134,3	2,4	0,1	12 875	13 933	8,2	1 058
-Glass and glass products	1,1	145,6	154,9	6,4	0,1	2 224	2 346	5,5	122
-Non-metallic mineral products	2,9	125,8	126,6	0,6	0,0	10 652	11 587	8,8	935
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	22,4	124,3	121,6	-2,2	-0,5	101 044	119 848	18,6	18 804
-Basic iron and steel products	5,5	117,2	107,1	-8,6	-0,5	40 875	54 592	33,6	13 717
-Non-ferrous metal products	4,7	117,4	113,7	-3,2	-0,1	15 891	16 496	3,8	605
-Structural metal products	1,3	125,2	140,9	12,5	0,2	6 859	8 527	24,3	1 668
-Other fabricated metal products	4,2	133,6	135,4	1,3	0,1	14 025	16 029	14,3	2 004
-General purpose machinery	2,4	114,0	108,8	-4,6	-0,1	8 461	9 086	7,4	625
-Special purpose machinery	3,2	138,6	141,4	2,0	0,1	10 765	11 176	3,8	411
-Household appliances	1,2	133,2	124,8	-6,3	-0,1	4 168	3 942	-5,4	-226
<b>Electrical machinery</b>	2,7	100,4	114,4	13,9	0,4	13 706	16 458	20,1	2 752
<b>Radio, television and communication apparatus and professional equipment</b>	1,3	110,7	111,2	0,5	0,0	5 499	5 686	3,4	187
-Radio, television and communication apparatus	0,7	95,0	99,1	4,3	0,0	3 076	3 190	3,7	114
-Professional equipment	0,6	126,6	123,5	-2,4	0,0	2 422	2 496	3,1	74
<b>Motor vehicles, parts and accessories and other transport equipment</b>	8,6	144,9	143,8	-0,8	-0,1	70 918	80 074	12,9	9 156
-Motor vehicles	4,1	141,0	131,4	-6,8	-0,3	35 107	38 746	10,4	3 639
-Bodies for motor vehicles, trailers and semi-trailers	0,4	213,4	223,0	4,5	0,0	2 945	3 186	8,2	241
-Parts and accessories	3,1	154,9	162,8	5,1	0,2	27 546	32 088	16,5	4 542
-Other transport equipment	1,0	103,4	106,5	3,0	0,0	5 319	6 055	13,8	736
<b>Furniture and other manufacturing division</b>	5,8	108,1	109,7	1,5	0,1	20 784	23 236	11,8	2 452
-Furniture	1,6	126,1	125,7	-0,3	0,0	4 250	4 311	1,4	61
-Other manufacturing groups	4,2	101,2	103,6	2,4	0,1	16 533	18 925	14,5	2 392
<b>Total</b>	<b>100,0</b>	<b>119,2</b>	<b>122,6</b>	<b>2,9</b>	<b>2,9</b>	<b>440 941</b>	<b>522 024</b>	<b>18,4</b>	<b>81 083</b>

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.



## Explanatory notes

- Introduction**
- 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 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.
  - 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.
  - 3 In order to improve timeliness, some 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 is continuously upgrading its new business register, based on units registered for value-added tax (VAT) and income tax (IT), obtained from the South African Revenue Service (SARS).
- Purpose of the survey**
- 5 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).
- Special Data Dissemination Standard of the IMF**
- 6 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.
- Scope of the survey**
- 7 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**
- 8 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) and major group (three digit) level. Each enterprise is classified to an industry which reflects its predominant activity.
- Response rate**
- 9 The preliminary response rate for the survey on manufacturing production and sales for May 2008 was 82,9%. Improved response rate for April 2008 was 86,2%.
- Statistical unit**
- 10 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. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

- Survey methodology and design**
- 11 The survey is conducted monthly. Questionnaires are sent to a sample of approximately 3 100 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.
  - 12 The value of sales of manufactured products is obtained monthly from the sample of 3 046 enterprises, which was drawn in May 2007 from a population then of 56 801 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 major group to reflect the total value of sales of the major group.
  - 13 The calculation of the monthly production indices is based on the value of sales of products and articles manufactured and change in monthly value of stocks of manufactured products, 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.
  - 14 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).
- Weighting methodology**
- 15 For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form division estimates. These procedures, which are in line with international best practice, are described in more detail on the Stats SA website at [www.statssa.gov.za/publications/publicationsearch.asp](http://www.statssa.gov.za/publications/publicationsearch.asp).
  - 16 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 2008, 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 2008).
- Seasonal adjustment**
- 17 Seasonally adjusted estimates of all major groups are generated each month, using the X-11 Seasonal Adjustment Programme 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**                    **18** The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Programme is used for smoothing seasonally adjusted estimates to estimates of the underlying trend cycle.
- Reliability of estimates**      **19** 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.
- 20** 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**                **21** 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**         **22** 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**         **23** The figures in the tables have, where necessary, been rounded to the nearest digit shown.
- Pre-release policy**            **24** Stats SA's pre-release policy may be inspected at its website, [www.statssa.gov.za](http://www.statssa.gov.za)
- Symbols and abbreviations**   **25**
- |          |   |
|----------|---|
| 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**

**26 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	10 000 000
Small	10 000 001	26 000 000
Medium	26 000 001	127 500 000
Large	127 500 001	

## 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>1993 Standard Industrial Classification of all Economic Activities</i> , Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).
<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>Turnover</b>	Turnover refers to - <ul style="list-style-type: none"><li>• the value of sales and transfers out of all own manufactured products/articles;</li><li>• amounts received for work done; and</li><li>• amounts received for services rendered.</li></ul>

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 major group 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 weights 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 major groups**

Manufacturing divisions and major groups	Weights according to the 2001 large sample survey of the manufacturing industry 2001 - 2008	Weights according to the 1996 census of manufacturing 1996 - 2000
<b>Food and beverages</b>	<b>16,4</b>	<b>15,3</b>
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
<b>Textiles, clothing, leather and footwear</b>	<b>5,4</b>	<b>7,8</b>
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
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,0</b>	<b>11,4</b>
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
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,5</b>	<b>19,3</b>
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
<b>Glass and non-metallic mineral products</b>	<b>3,9</b>	<b>4,5</b>
Glass and glass products	1,1	1,0
Non-metallic mineral products	2,9	3,5
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,4</b>	<b>23,6</b>
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
<b>Electrical machinery</b>	<b>2,7</b>	<b>3,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,3</b>	<b>1,5</b>
Radio, television and communication apparatus	0,7	1,0
Professional equipment	0,6	0,5
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,6</b>	<b>9,1</b>
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
<b>Other manufacturing divisions</b>	<b>5,8</b>	<b>4,1</b>
Furniture	1,6	1,6
Other manufacturing groups	4,2	2,6
<b>Total</b>	<b>100,0</b>	<b>100,0</b>

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