



**Statistics
South Africa**

Preferred supplier of quality statistics



Statistical release

P3041.2

Manufacturing: Production and sales (Preliminary)

March 2009

**Embargoed until:
12 May 2009
13:00**

Enquiries:

User information services
Tel. (012) 310 8600/8390/8351

Forthcoming issue:

April 2009

Expected release date

10 June 2009

Statistics South Africa • Mbalo-mbalo ya Afrika Tshipembe • Tinhlayo-tiko ta Afrika-Dzonga • Dipalopalo tsa Aforika Borwa • Ezezibalo zaseNingizimu Afrika
Dipalopalo tša Afrika Borwa • Dipalopalo tsa Afrika Borwa • Ubalo lwaseMzantsi Afrika • Telubalo eNingizimu Afrika • iNanimbalo leSewula Afrika • Statistiek Suid-Afrika

email: info@statssa.gov.za
www.statssa.gov.za

170 Andries Street • Private Bag X44, 0001 Pretoria, South Africa
Tel: +27(12) 310 8911, Fax: +27(12) 321 7381

Contents	Page
SUMMARY OF FINDINGS: MANUFACTURING PRODUCTION AND SALES	2
DETAILED RESULTS: TABLES	8
Table 1 Index of the physical volume of manufacturing production: Total	8
Table 2 Annual percentage change in the index of the physical volume of manufacturing production: Total	8
Table 3 Seasonally adjusted index of the physical volume of manufacturing production: Total.....	8
Table 4a Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups	9
Table 4b Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups (concluded).....	10
Table 5 Total estimated sales of the manufacturing industry at current prices (R'000)	11
Table 6 Annual percentage change in the value of sales of the manufacturing industry: Total	11
Table 7 Total seasonally adjusted sales of the manufacturing industry (R'000)	11
Table 8a Sales of manufactured products according to manufacturing divisions and major groups (R'000)	12
Table 8b Sales of manufactured products according to manufacturing divisions and major groups (R'000) (concluded)	13
Table 9 Annual percentage change in the physical volume of manufacturing production and value of sales according to manufacturing divisions and major groups	14
Explanatory notes.....	15
Glossary	19
Table E – Weights according to manufacturing major groups.....	21
General information	22

SUMMARY OF FINDINGS: MANUFACTURING PRODUCTION AND SALES

Table A – Selected key figures regarding manufacturing production and sales for March 2009

Estimates	March 2009	% change between March 2008 and March 2009	% change between January to March 2008 and January to March 2009
Physical volume of manufacturing production index (2005=100)	98,9	-11,7	-13,3
Total value of sales of manufactured products (R million)	100 496	-7,8	-7,6

Seasonally adjusted estimates	March 2009	% change between February and March 2009	% change between October to December 2008 and January to March 2009
Physical volume of manufacturing production index (2005=100)	96,4	0,1	-6,8
Total value of sales of manufactured products (R million)	98 872	1,2	-9,2

Manufacturing production continues to decline

The estimated manufacturing production for March 2009 decreased by 11,7% compared with March 2008. The seasonally adjusted manufacturing production for the first quarter of 2009 decreased by 6,8% compared with the fourth quarter of 2008. Lower production levels were reported by nine of the ten manufacturing divisions during the first quarter of 2009. The decrease was driven mainly by lower production in two divisions, namely basic iron and steel, non-ferrous metal products, metal products and machinery (contributing -2,0 percentage points) and motor vehicles, parts and accessories and other transport equipment (contributing -1,6 percentage points), followed by the wood and wood products, paper, publishing and printing division, the petroleum, chemical products, rubber and plastic products division (each contributing -0,9 of a percentage point) and the furniture and 'other' manufacturing division (contributing -0,7 of a percentage point) (see Table B).

The 11,7% decrease in manufacturing production in March 2009 compared with March 2008 was mainly due to lower production in the basic iron and steel, non-ferrous metal products, metal products and machinery division (-24,1% and contributing -5,5 percentage points), followed by the motor vehicles, parts and accessories and other transport equipment division (-26,8% and contributing -2,9 percentage points), the petroleum, chemical products, rubber and plastic products division (-8,8% and contributing -1,9 percentage points) and the wood and wood products, paper, publishing and printing division (-9,9% and contributing -1,0 percentage point) (see Table 4b).

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

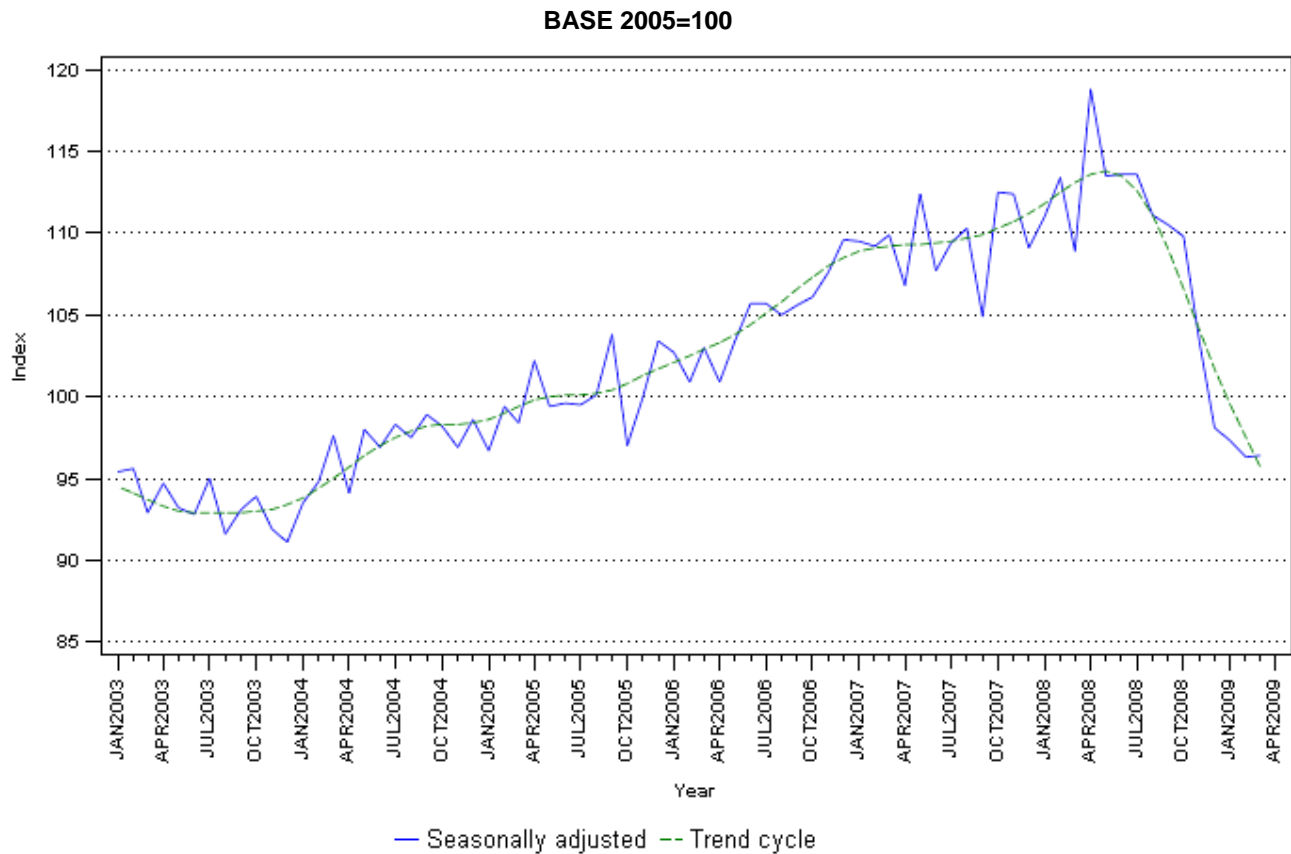
(Base 2005=100)

Manufacturing divisions and major groups	Percentage contribution to total manufacturing production using the weights according to large sample survey of the manufacturing industry, 2005	Average seasonally adjusted production index for October to December 2008	Average seasonally adjusted production index for January to March 2009	Quarterly percentage change of January to March 2009 compared with the preceding three months	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and beverages	15,4	111,5	108,7	-2,5	-0,4
-Food and food products	8,6	106,1	108,6	2,4	0,2
-Beverages	6,8	118,8	108,7	-8,5	-0,6
Textiles, clothing, leather and footwear	4,9	101,6	95,4	-6,1	-0,3
-Textiles	1,7	91,7	85,8	-6,4	-0,1
-Wearing apparel	2,1	109,8	106,8	-2,7	-0,1
-Leather and leather products	0,6	85,5	74,7	-12,6	-0,1
-Footwear	0,4	112,8	107,6	-4,6	0,0
Wood and wood products, paper, publishing and printing	10,2	107,6	98,5	-8,5	-0,9
-Wood and products of wood	2,0	96,4	89,9	-6,7	-0,1
-Paper and paper products	3,8	122,7	111,6	-9,0	-0,3
-Publishing and printing	4,3	99,2	91,0	-8,3	-0,4
Petroleum, chemical products, rubber and plastic products	22,1	112,4	107,7	-4,2	-0,9
-Coke, petroleum products and nuclear fuel	8,5	87,1	90,0	3,3	0,3
-Basic chemicals	4,5	143,6	116,5	-18,9	-0,9
-Other chemical products	5,3	120,2	117,6	-2,2	-0,1
-Rubber products	1,0	82,5	81,7	-1,0	0,0
-Plastic products	2,7	135,0	138,0	2,2	0,1
Glass and non-metallic mineral products	4,8	107,2	100,3	-6,4	-0,3
-Glass and glass products	1,0	131,9	125,9	-4,5	0,0
-Non-metallic mineral products	3,8	101,0	93,9	-7,0	-0,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	92,0	83,9	-8,8	-2,0
-Basic iron and steel products	7,7	63,3	53,8	-15,0	-1,2
-Basic precious, non-ferrous metal products	3,4	100,5	94,3	-6,2	-0,2
-Fabricated metal products	5,7	120,1	112,7	-6,2	-0,4
-Machinery and equipment	6,1	97,8	91,0	-7,0	-0,4
Electrical machinery	2,5	123,1	129,2	5,0	0,1
Radio, television and communication apparatus and professional equipment	1,1	106,7	93,9	-12,0	-0,1
-Radio, television and communication apparatus	0,4	117,1	105,1	-10,2	0,0
-Professional equipment	0,7	100,1	86,7	-13,4	-0,1
Motor vehicles, parts and accessories and other transport equipment	10,9	86,8	73,7	-15,1	-1,6
-Motor vehicles, trailers, parts and accessories	10,0	83,9	69,4	-17,3	-1,7
-Other transport equipment	0,9	125,0	123,0	-1,6	0,0
Furniture and other manufacturing division	5,2	112,8	98,0	-13,1	-0,7
-Furniture	1,3	103,9	94,5	-9,0	-0,1
-Other manufacturing groups	3,9	115,7	99,2	-14,3	-0,6
Total	100,0	103,8	96,7	-6,8	-6,8

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 2003 and March 2009.

Figure 1 – Index of the physical volume of manufacturing production



Seasonally adjusted sales of manufactured products decrease

The estimated total value of sales of manufactured products at current prices for the first quarter of 2009 decreased by 9,2% (-R29 669 million), after seasonal adjustment, compared with the fourth quarter of 2008. Lower manufacturing sales were reported by nine of the ten manufacturing divisions during this period (see Table C).

Large decreases were mainly reported for the motor vehicles, parts and accessories and other transport equipment division (-19,1% or -R8 471 million), the basic iron and steel, non-ferrous metal products, metal products and machinery division (-13,8% or -R9 187 million) and the petroleum, chemical products, rubber and plastic products division (-10,6% or -R8 164 million) during this period (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 October to December 2008	Seasonally adjusted sales January to March 2009	Percentage change between October to December 2008 and January to March 2009	Difference in seasonally adjusted sales of manufacturing divisions between October to December 2008 and January to March 2009
	R '000	R '000		R '000
Food and beverages	60 832 363	60 095 943	-1,2	-736 420
-Food and food products	45 797 577	46 128 708	0,7	331 131
-Beverages	15 034 789	13 967 235	-7,1	-1 067 554
Textiles, clothing, leather and footwear	10 327 878	9 643 279	-6,6	-684 599
-Textiles	4 159 285	3 770 276	-9,4	-389 009
-Wearing apparel	4 274 548	4 142 773	-3,1	-131 775
-Leather and leather products	963 132	866 257	-10,1	-96 875
-Footwear	930 911	863 974	-7,2	-66 937
Wood and wood products, paper, publishing and printing	28 606 329	26 764 910	-6,4	-1 841 419
-Wood and products of wood	6 507 234	6 238 191	-4,1	-269 043
-Paper and paper products	12 794 554	11 815 622	-7,7	-978 932
-Publishing and printing	9 304 542	8 711 096	-6,4	-593 446
Petroleum, chemicals products, rubber and plastic products	76 744 781	68 581 101	-10,6	-8 163 680
-Coke, petroleum products and nuclear fuel	26 418 550	21 967 392	-16,8	-4 451 158
-Basic chemicals	19 558 962	15 789 952	-19,3	-3 769 010
-Other chemical products	16 705 426	16 639 418	-0,4	-66 008
-Rubber products	2 934 766	2 868 538	-2,3	-66 228
-Plastic products	11 127 077	11 315 802	1,7	188 725
Glass and non-metallic mineral products	9 041 035	8 998 529	-0,5	-42 506
-Glass and glass products	1 741 942	1 744 069	0,1	2 127
-Non-metallic mineral products	7 299 094	7 254 461	-0,6	-44 633
Basic iron and steel, non-ferrous metal products, metal products and machinery	66 497 446	57 309 989	-13,8	-9 187 457
-Basic iron and steel products	23 702 007	18 262 138	-23,0	-5 439 869
-Basic precious, non-ferrous metal products	10 418 453	8 403 418	-19,3	-2 015 035
-Fabricated metal products	17 459 857	16 535 250	-5,3	-924 607
-Machinery and equipment	14 917 128	14 109 182	-5,4	-807 946
Electrical machinery	9 477 497	9 640 541	1,7	163 044
Radio, television and communication apparatus and professional equipment	3 568 180	3 233 279	-9,4	-334 901
-Radio, television and communication apparatus	1 657 551	1 386 244	-16,4	-271 307
-Professional equipment	1 910 629	1 847 035	-3,3	-63 594
Motor vehicles, parts and accessories and other transport equipment	44 287 978	35 817 316	-19,1	-8 470 662
-Motor vehicles, trailers, parts and accessories	40 140 398	31 762 262	-20,9	-8 378 136
-Other transport equipment	4 147 578	4 055 054	-2,2	-92 524
Furniture and other manufacturing division	14 513 698	14 143 363	-2,6	-370 335
-Furniture	3 503 662	3 215 099	-8,2	-288 563
-Other manufacturing groups	11 010 037	10 928 265	-0,7	-81 772
Total	323 897 186	294 228 251	-9,2	-29 668 935

Manufacturing sales at current prices continue to decrease

Estimated sales of manufacturing production at current prices decreased by 7,8% in March 2009 compared with March 2008 – the third consecutive year-on-year decrease (see Table 6). The annual growth in the value of sales for the first quarter of 2009 was -7,6% (-R22 803 million) compared with the first quarter of 2008 (see Table D).

The major contributors to the decrease of 7,6% in sales of manufactured products at current prices for the first quarter of 2009 compared with the same period of 2008 were the basic iron and steel, non-ferrous metal products, metal products and machinery division (-4,5 percentage points or -R13 500 million) and the motor vehicles, parts and accessories and other transport equipment division (-3,8 percentage points or -R11 252 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 January to March 2008	Percentage change between January to March 2008 and January to March 2009	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions between January to March 2008 and January to March 2009
				R '000
Food and beverages	17,0	11,6	2,0	5 882 161
-Food and food products	12,7	13,4	1,7	5 084 233
-Beverages	4,3	6,2	0,3	797 928
Textiles, clothing, leather and footwear	3,2	-8,9	-0,3	-860 245
-Textiles	1,3	-10,3	-0,1	-404 240
-Wearing apparel	1,3	-5,4	-0,1	-210 437
-Leather and leather products	0,4	-24,1	-0,1	-282 474
-Footwear	0,2	5,4	0,0	36 906
Wood and wood products, paper, publishing and printing	8,2	1,7	0,1	424 637
-Wood and products of wood	2,0	-8,3	-0,2	-511 205
-Paper and paper products	3,5	6,6	0,2	688 533
-Publishing and printing	2,7	3,1	0,1	247 309
Petroleum, chemicals products, rubber and plastic products	22,3	-4,4	-1,0	-2 962 803
-Coke, petroleum products and nuclear fuel	8,9	-23,0	-2,0	-6 090 405
-Basic chemicals	5,1	-5,0	-0,3	-764 089
-Other chemical products	4,5	16,1	0,7	2 160 967
-Rubber products	0,9	4,1	0,0	108 152
-Plastic products	3,0	18,2	0,5	1 622 572
Glass and non-metallic mineral products	2,7	2,4	0,1	190 881
-Glass and glass products	0,5	12,9	0,1	178 019
-Non-metallic mineral products	2,2	0,2	0,0	12 862
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,4	-20,1	-4,5	-13 500 388
-Basic iron and steel products	9,5	-39,3	-3,7	-11 204 640
-Basic precious, non-ferrous metal products	3,2	-18,8	-0,6	-1 779 220
-Fabricated metal products	4,8	4,4	0,2	626 326
-Machinery and equipment	5,0	-7,7	-0,4	-1 142 854
Electrical machinery	3,0	-1,9	-0,1	-175 652
Radio, television and communication apparatus and professional equipment	1,1	-4,1	0,0	-133 200
-Radio, television and communication apparatus	0,5	-10,8	-0,1	-157 163
-Professional equipment	0,6	1,3	0,0	23 963
Motor vehicles, parts and accessories and other transport equipment	15,4	-24,4	-3,8	-11 252 191
-Motor vehicles, trailers, parts and accessories	14,2	-27,7	-3,9	-11 825 036
-Other transport equipment	1,2	16,3	0,2	572 845
Furniture and other manufacturing division	4,6	-3,0	-0,1	-416 617
-Furniture	0,9	-4,0	0,0	-109 161
-Other manufacturing groups	3,7	-2,8	-0,1	-307 456
Total	100,0	-7,6	-7,6	-22 803 417

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 2008, divided by 100.

Figure 2 shows the seasonally adjusted and trend series for sales of manufactured products between January 2003 and March 2009.

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



P J Lehohla
Statistician-General

Detailed results: Tables

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

Base 2005 = 100

Month	2003	2004	2005	2006	2007	2008	1/ 2009
Jan	84,2	82,6	85,2	89,8	95,2	96,2	83,9
Feb	92,6	91,5	95,5	96,8	104,6	108,5	92,1
Mar	96,0	100,8	101,8	106,3	113,4	112,0	98,9
Apr	88,8	88,9	96,2	95,4	100,6	111,8	
May	93,8	98,7	100,3	104,2	113,2	114,3	
Jun	93,4	97,6	100,1	106,6	108,9	115,1	
Jul	96,5	100,0	100,9	107,4	111,1	115,3	
Aug	93,9	100,3	103,3	108,7	114,4	115,0	
Sep	96,1	102,3	107,5	109,6	108,8	114,5	
Oct	103,3	108,2	106,9	117,0	124,2	121,4	
Nov	101,6	107,5	110,7	119,0	124,3	114,7	
Dec	80,7	87,0	91,4	96,9	96,6	88,2	
Year	93,4	97,1	100,0	104,8	109,6	110,6	

1/ Preliminary.

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

Month	2003	2004	2005	2006	2007	2008	2009
Jan	-	-1,9	3,1	5,4	6,0	1,1	-12,8
Feb	-	-1,2	4,4	1,4	8,1	3,7	-15,1
Mar	-	5,0	1,0	4,4	6,7	-1,2	-11,7
Apr	-	0,1	8,2	-0,8	5,5	11,1	
May	-	5,2	1,6	3,9	8,6	1,0	
Jun	-	4,5	2,6	6,5	2,2	5,7	
Jul	-	3,6	0,9	6,4	3,4	3,8	
Aug	-	6,8	3,0	5,2	5,2	0,5	
Sep	-	6,5	5,1	2,0	-0,7	5,2	
Oct	-	4,7	-1,2	9,4	6,2	-2,3	
Nov	-	5,8	3,0	7,5	4,5	-7,7	
Dec	-	7,8	5,1	6,0	-0,3	-8,7	
Year	-	4,0	3,0	4,8	4,6	0,9	

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	2003	2004	2005	2006	2007	2008	2009
Jan	95,4	93,5	96,7	102,7	109,5	111,0	97,3
Feb	95,6	94,8	99,4	100,9	109,2	113,4	96,3
Mar	92,9	97,6	98,4	103,0	109,9	108,9	96,4
Apr	94,7	94,1	102,2	100,9	106,8	118,8	
May	93,2	98,0	99,4	103,4	112,4	113,5	
Jun	92,8	96,9	99,6	105,7	107,7	113,6	
Jul	95,0	98,3	99,5	105,7	109,4	113,6	
Aug	91,6	97,5	100,1	105,0	110,3	111,1	
Sep	93,1	98,9	103,8	105,6	104,9	110,5	
Oct	93,9	98,2	97,0	106,1	112,5	109,8	
Nov	91,9	96,9	100,0	107,6	112,4	103,4	
Dec	91,1	98,6	103,4	109,6	109,1	98,1	

Table 4a – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups

Base 2005 = 100

Manufacturing divisions and major groups	Weights	Year 2008	Indices			Seasonally adjusted indices		
			March 2008	1/ February 2009	1/ March 2009	March 2008	February 2009	March 2009
Food and beverages	15,4	109,6	103,3	97,8	111,4	102,5	105,9	111,5
-Meat, fish, fruit, etc.	1,8	108,7	116,8	103,1	115,6	105,0	102,9	104,0
-Dairy products	0,8	110,9	107,2	102,0	110,8	104,8	108,6	108,5
-Grain mill products	0,8	108,6	107,0	98,9	115,8	103,6	107,2	112,1
-Other food products	5,2	105,3	86,5	86,7	100,6	97,0	111,4	113,3
-Beverages	6,8	113,1	111,5	104,1	117,9	105,6	102,1	112,5
Textiles, clothing, leather and footwear	4,9	104,8	110,2	95,9	96,2	105,5	93,7	92,6
-Textiles	0,7	90,5	86,0	91,1	87,8	79,7	83,7	81,7
-Other textile products	0,9	99,6	107,0	92,1	87,4	103,0	90,2	84,7
-Knitted, crocheted articles	0,2	112,1	116,6	114,2	113,3	108,8	109,2	106,3
-Wearing apparel	2,1	110,5	117,4	101,9	105,2	114,2	101,5	102,7
-Leather and leather products	0,6	101,3	119,9	80,8	78,3	106,8	76,0	70,0
-Footwear	0,4	111,6	102,4	97,0	103,7	105,3	105,1	106,8
Wood and wood products, paper, publishing and printing	10,2	108,3	109,3	93,5	98,5	108,1	97,8	97,6
-Sawmilling and planing of wood	0,7	95,7	96,1	79,1	75,5	89,0	77,9	70,1
-Products of wood	1,3	103,5	109,6	90,2	94,5	109,2	97,3	93,9
-Paper and paper products	3,8	121,8	115,6	101,2	110,2	118,2	107,6	112,8
-Publishing	1,9	105,9	117,1	93,0	97,9	112,9	94,7	94,1
-Printing, recorded media	2,5	95,5	97,4	87,9	89,5	93,9	91,0	86,3
Petroleum, chemical products, rubber and plastic products	22,1	117,9	117,0	99,9	106,7	115,7	106,6	105,4
-Coke, petroleum products and nuclear fuel	8,5	95,8	100,5	83,4	86,6	98,9	88,5	85,8
-Basic chemicals	4,5	152,5	145,4	105,3	110,4	150,1	116,8	114,0
-Other chemical products	5,3	119,2	115,4	108,4	123,9	109,4	116,4	117,2
-Rubber products	1,0	91,0	93,0	85,2	80,9	89,4	81,2	77,8
-Plastic products	2,7	137,3	133,3	130,9	138,9	133,1	136,1	139,0
Glass and non-metallic mineral products	4,8	110,4	109,2	93,2	99,4	109,6	100,3	100,1
-Glass and glass products	1,0	123,1	109,4	127,0	118,0	118,3	128,8	127,7
-Non-metallic mineral products	3,8	107,2	109,1	84,7	94,8	107,5	93,2	93,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	105,6	116,0	80,7	88,0	109,8	85,5	83,1
-Basic iron and steel products	7,7	94,8	108,5	51,5	58,0	104,6	56,5	55,7
-Non-ferrous metal products	3,4	102,8	103,6	87,0	98,7	98,5	94,6	93,8
-Structural metal products	2,0	124,2	127,8	105,6	108,4	124,0	110,7	105,5
-Other fabricated metal products	3,8	125,8	134,3	110,7	118,2	125,9	116,1	110,5
-General purpose machinery	2,4	93,4	100,7	71,9	75,6	99,4	78,0	74,9
-Special purpose machinery	3,1	108,8	132,1	95,0	106,4	116,4	96,0	93,8
-Household appliances	0,6	104,4	108,4	109,1	108,5	103,2	105,0	102,8
-Electrical machinery	2,5	124,9	123,1	128,2	135,2	116,4	130,6	127,7
Radio, television and communication apparatus and professional equipment	1,1	106,0	104,2	92,7	101,1	103,2	92,4	100,6
-Radio, television and communication apparatus	0,4	117,6	121,7	103,7	102,6	118,7	104,5	99,6
-Professional equipment	0,7	98,6	93,1	85,8	100,2	93,4	84,7	101,3
Motor vehicles, parts and accessories and other transport equipment	10,9	105,8	111,4	74,6	81,6	104,4	72,9	76,0
-Motor vehicles	4,9	99,7	99,2	74,5	73,7	93,5	71,7	69,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	151,1	147,3	108,8	103,4	143,6	107,9	101,1
-Parts and accessories	4,7	105,4	115,0	62,5	73,7	109,4	61,6	70,0
-Other transport equipment	0,9	116,9	139,0	117,9	151,1	117,8	117,3	128,2
Furniture and other manufacturing division	5,2	118,2	106,1	104,0	98,1	105,2	101,2	96,7
-Furniture	1,3	106,3	96,4	91,6	83,6	103,8	97,0	91,0
-Other manufacturing groups	3,9	122,2	109,4	108,1	102,8	105,7	102,6	98,6
Total	100,0	110,6	112,0	92,1	98,9	108,9	96,3	96,4

1/ Preliminary.

Table 4b – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups (concluded)

Base 2005 = 100

Manufacturing divisions and major groups	Weights	Year 2008	Indices			Seasonally adjusted indices		
			March 2008	1/ March 2009	Percentage change between March 2008 and March 2009	February 2009	March 2009	Percentage change between February 2009 and March 2009
Food and beverages	15,4	109,6	103,3	111,4	7,8	105,9	111,5	5,3
-Meat, fish, fruit, etc.	1,8	108,7	116,8	115,6	-1,0	102,9	104,0	1,1
-Dairy products	0,8	110,9	107,2	110,8	3,4	108,6	108,5	-0,1
-Grain mill products	0,8	108,6	107,0	115,8	8,2	107,2	112,1	4,6
-Other food products	5,2	105,3	86,5	100,6	16,3	111,4	113,3	1,7
-Beverages	6,8	113,1	111,5	117,9	5,7	102,1	112,5	10,2
Textiles, clothing, leather and footwear	4,9	104,8	110,2	96,2	-12,7	93,7	92,6	-1,2
-Textiles	0,7	90,5	86,0	87,8	2,1	83,7	81,7	-2,4
-Other textile products	0,9	99,6	107,0	87,4	-18,3	90,2	84,7	-6,1
-Knitted, crocheted articles	0,2	112,1	116,6	113,3	-2,8	109,2	106,3	-2,7
-Wearing apparel	2,1	110,5	117,4	105,2	-10,4	101,5	102,7	1,2
-Leather and leather products	0,6	101,3	119,9	78,3	-34,7	76,0	70,0	-7,9
-Footwear	0,4	111,6	102,4	103,7	1,3	105,1	106,8	1,6
Wood and wood products, paper, publishing and printing	10,2	108,3	109,3	98,5	-9,9	97,8	97,6	-0,2
-Sawmilling and planing of wood	0,7	95,7	96,1	75,5	-21,4	77,9	70,1	-10,0
-Products of wood	1,3	103,5	109,6	94,5	-13,8	97,3	93,9	-3,5
-Paper and paper products	3,8	121,8	115,6	110,2	-4,7	107,6	112,8	4,8
-Publishing	1,9	105,9	117,1	97,9	-16,4	94,7	94,1	-0,6
-Printing, recorded media	2,5	95,5	97,4	89,5	-8,1	91,0	86,3	-5,2
Petroleum, chemical products, rubber and plastic products	22,1	117,9	117,0	106,7	-8,8	106,6	105,4	-1,1
-Coke, petroleum products and nuclear fuel	8,5	95,8	100,5	86,6	-13,8	88,5	85,8	-3,1
-Basic chemicals	4,5	152,5	145,4	110,4	-24,1	116,8	114,0	-2,4
-Other chemical products	5,3	119,2	115,4	123,9	7,4	116,4	117,2	0,7
-Rubber products	1,0	91,0	93,0	80,9	-13,0	81,2	77,8	-4,2
-Plastic products	2,7	137,3	133,3	138,9	4,2	136,1	139,0	2,1
Glass and non-metallic mineral products	4,8	110,4	109,2	99,4	-9,0	100,3	100,1	-0,2
-Glass and glass products	1,0	123,1	109,4	118,0	7,9	128,8	127,7	-0,9
-Non-metallic mineral products	3,8	107,2	109,1	94,8	-13,1	93,2	93,2	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	105,6	116,0	88,0	-24,1	85,5	83,1	-2,8
-Basic iron and steel products	7,7	94,8	108,5	58,0	-46,5	56,5	55,7	-1,4
-Non-ferrous metal products	3,4	102,8	103,6	98,7	-4,7	94,6	93,8	-0,8
-Structural metal products	2,0	124,2	127,8	108,4	-15,2	110,7	105,5	-4,7
-Other fabricated metal products	3,8	125,8	134,3	118,2	-12,0	116,1	110,5	-4,8
-General purpose machinery	2,4	93,4	100,7	75,6	-24,9	78,0	74,9	-4,0
-Special purpose machinery	3,1	108,8	132,1	106,4	-19,5	96,0	93,8	-2,3
-Household appliances	0,6	104,4	108,4	108,5	0,1	105,0	102,8	-2,1
Electrical machinery	2,5	124,9	123,1	135,2	9,8	130,6	127,7	-2,2
Radio, television and communication apparatus and professional equipment	1,1	106,0	104,2	101,1	-3,0	92,4	100,6	8,9
-Radio, television and communication apparatus	0,4	117,6	121,7	102,6	-15,7	104,5	99,6	-4,7
-Professional equipment	0,7	98,6	93,1	100,2	7,6	84,7	101,3	19,6
Motor vehicles, parts and accessories and other transport equipment	10,9	105,8	111,4	81,6	-26,8	72,9	76,0	4,3
-Motor vehicles	4,9	99,7	99,2	73,7	-25,7	71,7	69,3	-3,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	151,1	147,3	103,4	-29,8	107,9	101,1	-6,3
-Parts and accessories	4,7	105,4	115,0	73,7	-35,9	61,6	70,0	13,6
-Other transport equipment	0,9	116,9	139,0	151,1	8,7	117,3	128,2	9,3
Furniture and other manufacturing division	5,2	118,2	106,1	98,1	-7,5	101,2	96,7	-4,4
-Furniture	1,3	106,3	96,4	83,6	-13,3	97,0	91,0	-6,2
-Other manufacturing groups	3,9	122,2	109,4	102,8	-6,0	102,6	98,6	-3,9
Total	100,0	110,6	112,0	98,9	-11,7	96,3	96,4	0,1

1/ Preliminary.

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

Month	2003	2004	2005	2006	2007	2008	1/ 2009
Jan	54 362 254	55 071 330	57 996 123	64 189 094	77 735 488	87 264 599	82 618 666
Feb	61 989 347	64 229 244	66 760 165	71 388 922	88 795 001	103 240 425	93 568 249
Mar	64 510 085	69 915 271	71 125 524	79 202 703	95 108 539	108 981 724	100 496 416
Apr	60 355 639	62 938 714	69 852 309	70 995 969	85 951 025	111 471 587	
May	62 025 293	68 680 038	71 871 060	79 802 545	96 506 978	114 469 290	
Jun	62 591 404	68 432 062	73 140 542	83 059 482	93 559 142	118 895 452	
Jul	63 121 052	68 962 693	73 306 407	84 166 082	94 457 875	122 517 062	
Aug	63 133 885	69 723 627	75 677 432	87 784 628	99 753 483	120 621 090	
Sep	64 724 012	72 859 146	78 504 917	89 792 711	95 566 455	120 173 361	
Oct	69 446 223	75 511 320	78 553 072	94 992 441	108 206 596	126 147 134	
Nov	68 158 470	77 784 326	82 083 555	98 270 280	110 644 228	117 691 220	
Dec	57 772 435	63 593 769	69 817 622	78 806 146	87 539 378	92 487 832	
Year	752 190 099	817 701 540	868 688 728	982 451 003	1 133 824 188	1 343 960 776	

1/ Preliminary.

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

Month	2003	2004	2005	2006	2007	2008	2009
Jan	-	1,3	5,3	10,7	21,1	12,3	-5,3
Feb	-	3,6	3,9	6,9	24,4	16,3	-9,4
Mar	-	8,4	1,7	11,4	20,1	14,6	-7,8
Apr	-	4,3	11,0	1,6	21,1	29,7	
May	-	10,7	4,6	11,0	20,9	18,6	
Jun	-	9,3	6,9	13,6	12,6	27,1	
Jul	-	9,3	6,3	14,8	12,2	29,7	
Aug	-	10,4	8,5	16,0	13,6	20,9	
Sep	-	12,6	7,7	14,4	6,4	25,7	
Oct	-	8,7	4,0	20,9	13,9	16,6	
Nov	-	14,1	5,5	19,7	12,6	6,4	
Dec	-	10,1	9,8	12,9	11,1	5,7	
Year	-	8,7	6,2	13,1	15,4	18,5	

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	2003	2004	2005	2006	2007	2008	2009
Jan	64 446 361	65 073 204	68 617 367	75 932 575	91 728 116	102 564 460	97 611 743
Feb	63 981 310	66 569 132	69 370 163	74 343 856	92 550 418	107 941 496	97 744 274
Mar	62 541 878	68 112 445	69 403 808	77 500 087	93 003 111	107 019 953	98 872 234
Apr	63 869 128	66 472 356	74 016 887	75 354 080	91 304 253	118 278 544	
May	61 612 961	68 282 607	71 538 955	79 451 955	95 985 466	113 589 671	
Jun	61 913 558	67 817 542	72 431 687	82 100 124	92 264 186	117 168 420	
Jul	62 865 857	68 354 329	72 360 055	82 792 549	92 822 238	119 884 462	
Aug	61 875 465	67 962 904	73 330 897	84 591 275	95 893 994	115 552 616	
Sep	61 933 038	69 465 473	74 617 072	85 313 392	91 003 959	114 520 736	
Oct	63 269 791	68 846 294	71 577 544	86 526 108	98 438 071	114 767 697	
Nov	61 303 612	70 009 425	73 621 200	88 427 083	99 660 951	106 076 918	
Dec	63 253 964	69 874 378	77 383 241	88 315 527	98 217 083	103 052 571	

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

Manufacturing divisions and major groups	Year 2008	Actual values			Seasonally adjusted values		
		March 2008	1/ February 2009	1/ March 2009	March 2008	February 2009	March 2009
Food and beverages	232 023 026	17 979 443	18 772 436	20 327 617	17 922 464	19 727 748	20 340 495
-Meat, fish, fruit, etc.	60 076 273	4 827 198	4 814 676	5 526 717	4 597 213	5 227 357	5 260 999
-Dairy products	19 078 729	1 568 293	1 563 583	1 617 823	1 519 228	1 628 784	1 572 807
-Grain mill products	46 802 248	3 573 656	3 546 804	4 092 913	3 551 506	3 944 955	4 065 822
-Other food products	49 467 398	3 591 018	4 242 694	4 337 582	3 850 640	4 582 668	4 675 550
-Beverages	56 598 378	4 419 278	4 604 679	4 752 582	4 403 877	4 343 984	4 765 317
Textiles, clothing, leather and footwear	41 798 562	3 632 515	3 153 351	3 335 883	3 413 045	3 174 276	3 138 906
-Textiles	6 554 752	518 641	540 476	577 745	471 323	537 842	524 016
-Other textile products	10 229 135	940 939	750 159	763 173	873 215	751 081	707 460
-Knitted, crocheted articles	1 975 538	178 682	159 835	177 141	159 403	160 382	157 949
-Wearing apparel	15 198 176	1 317 557	1 132 200	1 217 928	1 266 814	1 152 958	1 174 599
-Leather and leather products	4 318 960	413 216	309 431	319 263	374 473	288 242	289 497
-Footwear	3 522 001	263 480	261 250	280 633	267 818	283 771	285 386
Wood and wood products, paper, publishing and printing	111 176 443	8 864 006	8 513 040	8 990 192	8 720 186	8 932 432	8 839 852
-Sawmilling and planing of wood	8 071 856	684 067	505 014	540 969	669 203	523 605	529 525
-Products of wood	18 611 025	1 516 441	1 372 375	1 405 936	1 543 244	1 437 968	1 432 703
-Paper and paper products	48 620 414	3 713 105	3 723 376	4 037 039	3 630 010	4 008 120	3 947 175
-Publishing	15 058 581	1 281 475	1 210 813	1 251 596	1 252 396	1 211 062	1 220 788
-Printing, recorded media	20 814 567	1 668 918	1 701 462	1 754 652	1 625 333	1 751 677	1 709 661
Petroleum, chemical products, rubber and plastic products	318 096 334	24 510 199	21 226 247	22 238 503	24 712 160	23 133 195	22 264 960
-Coke, petroleum products and nuclear fuel	125 107 924	9 805 562	6 449 489	6 678 624	10 113 499	7 277 188	6 913 472
-Basic chemicals	75 968 815	5 745 088	5 100 367	4 901 529	5 964 997	5 630 886	5 074 272
-Other chemical products	63 051 694	4 843 887	5 137 172	5 853 798	4 602 271	5 547 411	5 561 306
-Rubber products	11 785 950	987 840	961 086	1 027 914	912 814	930 006	947 738
-Plastic products	42 181 951	3 127 822	3 578 133	3 776 638	3 118 580	3 747 704	3 768 172
Glass and non-metallic mineral products	36 055 584	2 855 044	2 878 997	2 986 315	2 836 676	3 061 451	2 959 967
-Glass and glass products	6 472 067	472 638	587 938	522 873	512 414	622 305	564 717
-Non-metallic mineral products	29 583 517	2 382 406	2 291 059	2 463 442	2 324 263	2 439 147	2 395 250
Basic iron and steel, non-ferrous metal products, metal products and machinery	297 763 034	24 686 062	17 951 138	19 698 185	24 427 608	19 034 039	19 384 616
-Basic iron and steel products	125 939 060	10 231 869	5 707 209	6 413 112	10 601 309	6 038 426	6 664 737
-Non-ferrous metal products	42 264 456	3 533 972	2 592 014	2 635 014	3 492 427	2 890 201	2 607 122
-Structural metal products	24 132 393	1 981 712	1 748 850	1 966 872	1 906 567	1 891 710	1 890 541
-Other fabricated metal products	44 958 326	3 408 448	3 330 825	3 681 427	3 359 591	3 541 866	3 626 961
-General purpose machinery	23 087 802	1 937 363	1 634 917	1 717 268	1 920 784	1 771 331	1 705 902
-Special purpose machinery	27 929 392	2 778 831	2 130 410	2 441 315	2 376 227	2 111 645	2 096 505
-Household appliances	9 451 605	813 867	806 913	843 177	770 705	788 860	792 847
-Electrical machinery	39 726 613	3 346 554	3 127 193	3 305 328	3 192 499	3 155 822	3 135 084
Radio, television and communication apparatus and professional equipment	14 007 573	1 201 603	1 082 600	1 135 625	1 143 712	1 088 965	1 080 063
-Radio, television and communication apparatus	6 461 304	560 058	451 111	488 275	528 367	466 434	460 010
-Professional equipment	7 546 269	641 545	631 489	647 350	615 344	622 531	620 053
Motor vehicles, parts and accessories and other transport equipment	191 944 736	17 284 236	11 805 400	13 674 936	15 924 284	11 746 309	12 515 493
-Motor vehicles	94 941 676	8 682 969	6 131 055	7 199 700	7 986 613	6 159 731	6 591 801
-Bodies for motor vehicles, trailers and semi-trailers	10 529 036	847 250	661 261	669 864	836 577	694 638	659 709
-Parts and accessories	71 558 417	6 392 120	3 748 017	4 174 903	5 922 516	3 608 727	3 849 334
-Other transport equipment	14 915 607	1 361 897	1 265 067	1 630 469	1 178 578	1 283 213	1 414 649
Furniture and other manufacturing division	61 368 871	4 622 062	5 057 847	4 803 832	4 727 319	4 690 035	5 212 799
-Furniture	13 761 092	1 006 212	1 015 333	949 297	1 080 444	1 095 834	1 027 291
-Other manufacturing groups	47 607 779	3 615 850	4 042 514	3 854 535	3 646 875	3 594 201	4 185 507
Total	1 343 960 776	108 981 724	93 568 249	100 496 416	107 019 953	97 744 274	98 872 234

1/ Preliminary.

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

Manufacturing divisions and major groups	Year 2008	Value of sales			Seasonally adjusted value of sales		
		March 2008	1/ March 2009	Percentage change between March 2008 and March 2009	February 2009	March 2009	Percentage change between February and March 2009
Food and beverages	232 023 026	17 979 443	20 327 617	13,1	19 727 748	20 340 495	3,1
-Meat, fish, fruit, etc.	60 076 273	4 827 198	5 526 717	14,5	5 227 357	5 260 999	0,6
-Dairy products	19 078 729	1 568 293	1 617 823	3,2	1 628 784	1 572 807	-3,4
-Grain mill products	46 802 248	3 573 656	4 092 913	14,5	3 944 955	4 065 822	3,1
-Other food products	49 467 398	3 591 018	4 337 582	20,8	4 582 668	4 675 550	2,0
-Beverages	56 598 378	4 419 278	4 752 582	7,5	4 343 984	4 765 317	9,7
Textiles, clothing, leather and footwear	41 798 562	3 632 515	3 335 883	-8,2	3 174 276	3 138 906	-1,1
-Textiles	6 554 752	518 641	577 745	11,4	537 842	524 016	-2,6
-Other textile products	10 229 135	940 939	763 173	-18,9	751 081	707 460	-5,8
-Knitted, crocheted articles	1 975 538	178 682	177 141	-0,9	160 382	157 949	-1,5
-Wearing apparel	15 198 176	1 317 557	1 217 928	-7,6	1 152 958	1 174 599	1,9
-Leather and leather products	4 318 960	413 216	319 263	-22,7	288 242	289 497	0,4
-Footwear	3 522 001	263 480	280 633	6,5	283 771	285 386	0,6
Wood and wood products, paper, publishing and printing	111 176 443	8 864 006	8 990 192	1,4	8 932 432	8 839 852	-1,0
-Sawmilling and planing of wood	8 071 856	684 067	540 969	-20,9	523 605	529 525	1,1
-Products of wood	18 611 025	1 516 441	1 405 936	-7,3	1 437 968	1 432 703	-0,4
-Paper and paper products	48 620 414	3 713 105	4 037 039	8,7	4 008 120	3 947 175	-1,5
-Publishing	15 058 581	1 281 475	1 251 596	-2,3	1 211 062	1 220 788	0,8
-Printing, recorded media	20 814 567	1 668 918	1 754 652	5,1	1 751 677	1 709 661	-2,4
Petroleum, chemical products, rubber and plastic products	318 096 334	24 510 199	22 238 503	-9,3	23 133 195	22 264 960	-3,8
-Coke, petroleum products and nuclear fuel	125 107 924	9 805 562	6 678 624	-31,9	7 277 188	6 913 472	-5,0
-Basic chemicals	75 968 815	5 745 088	4 901 529	-14,7	5 630 886	5 074 272	-9,9
-Other chemical products	63 051 694	4 843 887	5 853 798	20,8	5 547 411	5 561 306	0,3
-Rubber products	11 785 950	987 840	1 027 914	4,1	930 006	947 738	1,9
-Plastic products	42 181 951	3 127 822	3 776 638	20,7	3 747 704	3 768 172	0,5
-Glass and non-metallic mineral products	36 055 584	2 855 044	2 986 315	4,6	3 061 451	2 959 967	-3,3
-Glass and glass products	6 472 067	472 638	522 873	10,6	622 305	564 717	-9,3
-Non-metallic mineral products	29 583 517	2 382 406	2 463 442	3,4	2 439 147	2 395 250	-1,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	297 763 034	24 686 062	19 698 185	-20,2	19 034 039	19 384 616	1,8
-Basic iron and steel products	125 939 060	10 231 869	6 413 112	-37,3	6 038 426	6 664 737	10,4
-Non-ferrous metal products	42 264 456	3 533 972	2 635 014	-25,4	2 890 201	2 607 122	-9,8
-Structural metal products	24 132 393	1 981 712	1 966 872	-0,7	1 891 710	1 890 541	-0,1
-Other fabricated metal products	44 958 326	3 408 448	3 681 427	8,0	3 541 866	3 626 961	2,4
-General purpose machinery	23 087 802	1 937 363	1 717 268	-11,4	1 771 331	1 705 902	-3,7
-Special purpose machinery	27 929 392	2 778 831	2 441 315	-12,1	2 111 645	2 096 505	-0,7
-Household appliances	9 451 605	813 867	843 177	3,6	788 860	792 847	0,5
-Electrical machinery	39 726 613	3 346 554	3 305 328	-1,2	3 155 822	3 135 084	-0,7
Radio, television and communication apparatus and professional equipment	14 007 573	1 201 603	1 135 625	-5,5	1 088 965	1 080 063	-0,8
-Radio, television and communication apparatus	6 461 304	560 058	488 275	-12,8	466 434	460 010	-1,4
-Professional equipment	7 546 269	641 545	647 350	0,9	622 531	620 053	-0,4
Motor vehicles, parts and accessories and other transport equipment	191 944 736	17 284 236	13 674 936	-20,9	11 746 309	12 515 493	6,5
-Motor vehicles	94 941 676	8 682 969	7 199 700	-17,1	6 159 731	6 591 801	7,0
-Bodies for motor vehicles, trailers and semi-trailers	10 529 036	847 250	669 864	-20,9	694 638	659 709	-5,0
-Parts and accessories	71 558 417	6 392 120	4 174 903	-34,7	3 608 727	3 849 334	6,7
-Other transport equipment	14 915 607	1 361 897	1 630 469	19,7	1 283 213	1 414 649	10,2
Furniture and other manufacturing division	61 368 871	4 622 062	4 803 832	3,9	4 690 035	5 212 799	11,1
-Furniture	13 761 092	1 006 212	949 297	-5,7	1 095 834	1 027 291	-6,3
-Other manufacturing groups	47 607 779	3 615 850	3 854 535	6,6	3 594 201	4 185 507	16,5
Total	1 343 960 776	108 981 724	100 496 416	-7,8	97 744 274	98 872 234	1,2

1/ Preliminary.

Table 9 – 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 2005=100)				Value of sales (R million)			
		Jan. to Mar. 2008	Jan. to Mar. 2009	Annual percentage change between 2008 and 2009	Contribution (percentage points)	Jan. to Mar. 2008	Jan. to Mar. 2009	Annual percentage change between 2008 and 2009	Difference in sales between 2008 and 2009
Food and beverages	15,4	98,2	101,2	3,1	0,5	50 841	56 723	11,6	5 882
-Meat, fish, fruit, etc.	1,8	104,5	103,5	-1,0	0,0	13 127	14 748	12,3	1 621
-Dairy products	0,8	110,1	107,5	-2,4	0,0	4 570	4 792	4,9	222
-Grain mill products	0,8	101,9	104,4	2,5	0,0	10 044	11 226	11,8	1 182
-Other food products	5,2	83,3	88,7	6,5	0,3	10 309	12 367	20,0	2 058
-Beverages	6,8	106,1	108,9	2,6	0,2	12 792	13 590	6,2	798
Textiles, clothing, leather and footwear	4,9	99,7	88,1	-11,6	-0,6	9 676	8 816	-8,9	-860
-Textiles	0,7	88,0	82,2	-6,6	0,0	1 480	1 507	1,8	27
-Other textile products	0,9	96,5	79,5	-17,6	-0,2	2 455	2 024	-17,6	-431
-Knitted, crocheted articles	0,2	104,2	100,7	-3,4	0,0	463	446	-3,7	-17
-Wearing apparel	2,1	102,6	95,4	-7,0	-0,1	3 425	3 232	-5,6	-193
-Leather and leather products	0,6	112,3	77,2	-31,3	-0,2	1 173	891	-24,0	-282
-Footwear	0,4	89,7	90,7	1,1	0,0	679	716	5,4	37
Wood and wood products, paper, publishing and printing	10,2	101,1	92,4	-8,6	-0,9	24 702	25 126	1,7	424
-Sawmilling and planing of wood	0,7	92,3	75,7	-18,0	-0,1	1 931	1 559	-19,3	-372
-Products of wood	1,3	97,2	88,8	-8,6	-0,1	4 206	4 067	-3,3	-139
-Paper and paper products	3,8	109,8	103,9	-5,4	-0,2	10 486	11 174	6,6	688
-Publishing	1,9	106,0	91,7	-13,5	-0,3	3 559	3 524	-1,0	-35
-Printing, recorded media	2,5	88,4	81,9	-7,4	-0,2	4 520	4 803	6,3	283
Petroleum, chemical products, rubber and plastic products	22,1	110,1	102,9	-6,5	-1,4	66 794	63 831	-4,4	-2 963
-Coke, petroleum products and nuclear fuel	8,5	96,3	90,1	-6,4	-0,5	26 508	20 418	-23,0	-6 090
-Basic chemicals	4,5	134,5	107,0	-20,4	-0,9	15 311	14 547	-5,0	-764
-Other chemical products	5,3	106,5	110,5	3,8	0,2	13 405	15 566	16,1	2 161
-Rubber products	1,0	89,3	80,0	-10,4	-0,1	2 648	2 756	4,1	108
-Plastic products	2,7	127,5	129,4	1,5	0,0	8 921	10 544	18,2	1 623
Glass and non-metallic mineral products	4,8	104,9	91,7	-12,6	-0,6	8 033	8 224	2,4	191
-Glass and glass products	1,0	110,7	116,2	5,0	0,1	1 380	1 558	12,9	178
-Non-metallic mineral products	3,8	103,5	85,6	-17,3	-0,7	6 652	6 665	0,2	13
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	106,7	80,5	-24,6	-5,6	67 158	53 657	-20,1	-13 501
-Basic iron and steel products	7,7	101,1	52,3	-48,3	-3,7	28 479	17 274	-39,3	-11 205
-Non-ferrous metal products	3,4	103,2	91,8	-11,0	-0,4	9 450	7 671	-18,8	-1 779
-Structural metal products	2,0	116,4	96,2	-17,4	-0,3	5 109	5 035	-1,4	-74
-Other fabricated metal products	3,8	116,2	107,5	-7,5	-0,3	9 285	9 986	7,5	701
-General purpose machinery	2,4	95,0	72,1	-24,1	-0,6	5 308	4 867	-8,3	-441
-Special purpose machinery	3,1	116,6	97,6	-16,3	-0,5	7 250	6 511	-10,2	-739
-Household appliances	0,6	102,3	102,1	-0,2	0,0	2 277	2 314	1,6	37
Electrical machinery	2,5	115,5	121,6	5,3	0,1	9 120	8 944	-1,9	-176
Radio, television and communication apparatus and professional equipment	1,1	97,7	89,5	-8,4	-0,1	3 241	3 108	-4,1	-133
-Radio, television and communication apparatus	0,4	106,8	98,6	-7,7	0,0	1 457	1 299	-10,8	-158
-Professional equipment	0,7	91,9	83,7	-8,9	-0,1	1 785	1 809	1,3	24
Motor vehicles, parts and accessories and other transport equipment	10,9	108,5	72,3	-33,4	-3,6	46 177	34 924	-24,4	-11 253
-Motor vehicles	4,9	96,8	67,4	-30,4	-1,5	21 907	17 737	-19,0	-4 170
-Bodies for motor vehicles, trailers and semi-trailers	0,5	133,5	97,9	-26,7	-0,1	2 220	1 826	-17,7	-394
-Parts and accessories	4,7	115,9	64,1	-44,7	-2,1	18 541	11 281	-39,2	-7 260
-Other transport equipment	0,9	120,3	126,1	4,8	0,0	3 508	4 081	16,3	573
Furniture and other manufacturing division	5,2	108,5	92,3	-14,9	-0,8	13 746	13 329	-3,0	-417
-Furniture	1,3	88,8	78,3	-11,8	-0,2	2 751	2 642	-4,0	-109
-Other manufacturing groups	3,9	115,1	96,9	-15,8	-0,6	10 994	10 687	-2,8	-307
Total	100,0	105,6	91,6	-13,3	-13,3	299 487	276 683	-7,6	-22 804

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 2005. 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 March 2009 was 89,0%. Improved response rate for February 2009 was 91,3%.
- 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 3 000 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.
- 12 The value of sales of manufactured products is obtained monthly from the sample of 3 042 enterprises, which was drawn in April 2008 from a population then of 56 553 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.
- 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 1998 to 2000, the weights are based on the 1996 Census of Manufacturing. For the period 2001 to 2004, the weights are based on the 2001 large sample survey of the manufacturing industry (LSS) and for the period 2005 to 2009, the weights are based on the 2005 LSS. Weights between census / LSS 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 three periods 1998 to 2000, 2001 to 2004 and 2005 to 2009).

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
- 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	12 500 000
Small	12 500 001	32 500 000
Medium	32 500 001	127 500 000
Large	127 500 001	

Glossary

Enterprise	The enterprise is a legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.
Index of physical volume of manufacturing production	The index of physical volume of manufacturing production, also known as a production index, is a statistical measure of the change in the volume of production. The production index of a 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.
Industry	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).
Intermediate consumption	Intermediate consumption includes - <ul style="list-style-type: none">• purchases and transfers-in of materials;• payments to other establishments for work done;• other direct factory costs;• rent and leasing paid;• head office charges;• royalties, copyright, trade names and patent rights paid;• advertising;• insurance premiums;• services; and• secretarial and administrative fees.
Output	Output is the aggregate value of goods manufactured and work done and includes - <ul style="list-style-type: none">• sales and transfers-out of own manufactures, factory waste and stocks of factored goods;• repairs;• installation, erection and assembly;• sundry trading revenue;• sales of factored goods minus purchases of factored goods;• rent and leasing received;• royalties received;• difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods;• head office charges; and• other revenue. Output excludes excise and customs duty paid.
Value added	Value added is the value of output less intermediate consumption. It represents the value added to the cost of the materials used in the process of production.
Sales	Sales are the total value of sales and transfers-out of all own manufactured products/articles and the amounts received for installation, erection or assembly or other services rendered.
Turnover	Turnover refers to - <ul style="list-style-type: none">• 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 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 2005 large sample survey of the manufacturing industry 2005 - 2009	Weights according to the 2001 large sample survey of the manufacturing industry 2001 - 2004	Weights according to the 1996 census of manufacturing 1998 - 2000
Food and beverages	15,4	16,4	15,3
Meat, fish, fruit, etc.	1,8	2,6	2,8
Dairy products	0,8	1,1	1,4
Grain mill products	0,8	1,5	2,1
Other food products	5,2	6,8	4,4
Beverages	6,8	4,3	4,6
Textiles, clothing, leather and footwear	4,9	5,4	7,8
Textiles	0,7	1,2	1,7
Other textile products	0,9	1,2	1,2
Knitted, crocheted articles	0,2	0,3	0,6
Wearing apparel	2,1	2,0	3,0
Tanning, dressing of leather	0,6	0,3	0,4
Footwear	0,4	0,4	0,9
Wood and wood products, paper, publishing and printing	10,2	11,0	11,4
Sawmilling and planing of wood	0,7	0,7	0,8
Products of wood	1,3	1,0	1,2
Paper and paper products	3,8	4,8	5,3
Publishing	1,9	2,4	1,5
Printing, recorded media	2,5	2,1	2,6
Petroleum, chemical products, rubber and plastic products	22,1	22,5	19,3
Petroleum products	8,5	9,1	4,2
Basic chemicals	4,5	4,0	4,5
Other chemical products	5,3	5,4	6,2
Rubber products	1,0	1,1	1,4
Plastic products	2,7	3,0	3,1
Glass and non-metallic mineral products	4,8	3,9	4,5
Glass and glass products	1,0	1,1	1,0
Non-metallic mineral products	3,8	2,9	3,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	22,4	23,6
Basic iron and steel products	7,7	5,5	7,6
Non-ferrous metal products	3,4	4,7	3,2
Structural metal products	2,0	1,3	2,4
Other fabricated metal products	3,8	4,2	4,6
General purpose machinery	2,4	2,4	2,5
Special purpose machinery	3,1	3,2	2,9
Household appliances	0,6	1,2	0,4
Electrical machinery	2,5	2,7	3,4
Radio, television and communication apparatus and professional equipment	1,1	1,3	1,5
Radio, television and communication apparatus	0,4	0,7	1,0
Professional equipment	0,7	0,6	0,5
Motor vehicles, parts and accessories and other transport equipment	10,9	8,6	9,1
Motor vehicles	4,9	4,1	4,5
Bodies for motor vehicles, trailers and semi-trailers	0,5	0,4	0,5
Parts and accessories	4,7	3,1	3,0
Other transport equipment	0,9	1,0	1,0
Other manufacturing divisions	5,2	5,8	4,1
Furniture	1,3	1,6	1,6
Other manufacturing groups	3,9	4,2	2,6
Total	100,0	100,0	100,0

General information

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English.

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

Advance release calendar

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

Stats SA products

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

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

Stats SA also provides a subscription service.

Electronic services

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

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

Enquiries

Telephone number: (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 (technical enquiries)
info@statssa.gov.za (user information services)
distribution@statssa.gov.za (orders)

Postal address: Private Bag X44, Pretoria, 0001

Produced by Stats SA