



Statistics  
South Africa



your leading partner in quality statistics

---

# Statistical release

## P3041.2

# Manufacturing: Production and sales (Preliminary)

December 2012

Embargoed until:  
7 February 2013  
13:00

**Enquiries:**

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

**Forthcoming issue:**

January 2013

**Expected release date**

14 March 2013

## Contents

<b>Key figures for December 2012</b> .....	<b>2</b>
Table A – Manufacturing production and sales.....	2
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production.....	3
Figure 1 – Index of the physical volume of manufacturing production: 2006 – 2012.....	4
Table C – Contribution of manufacturing divisions and major groups to the three-monthly total seasonally adjusted sales of the manufacturing industry at current prices.....	5
Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2012.....	6
<b>Detailed results</b> .....	<b>7</b>
Table 1 – Total index of the physical volume of manufacturing production: 2006 – 2012.....	7
Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2006 – 2012.....	7
Table 3 – Seasonally adjusted index of the total physical volume of manufacturing production: 2006 – 2012.....	7
Table 4a – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups.....	8
Table 4b – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups (concluded).....	9
Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2006 – 2012.....	10
Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2006 – 2012.....	10
Table 7 – Total seasonally adjusted sales of the manufacturing industry at current prices (R'000): 2006 – 2012...	10
Table 8a – Estimated sales of the manufacturing industry at current prices according to manufacturing divisions and major groups (R'000).....	11
Table 8b – Estimated sales of the manufacturing industry at current prices according to manufacturing divisions and major groups (R'000) (concluded).....	12
Table 9 – Annual percentage change in the three-monthly physical volume of manufacturing production and estimated sales according to manufacturing divisions and major groups.....	13
Table 10 – Annual percentage change in the cumulative physical volume of manufacturing production and estimated sales according to manufacturing divisions and major groups.....	14
<b>Explanatory notes</b> .....	<b>15</b>
<b>Glossary</b> .....	<b>19</b>
<b>Table D – Weights according to manufacturing divisions and major groups</b> .....	<b>21</b>
<b>General information</b> .....	<b>22</b>

## Key figures for December 2012

**Table A – Manufacturing production and sales**

Estimates	December 2012	% change between December 2011 and December 2012	% change between October to December 2011 and October to December 2012	% change between January to December 2011 and January to December 2012
Physical volume of manufacturing production index (base: 2005=100)	95,0	2,0	2,9	2,0
Total estimated sales of manufactured products (R million)	120 119	5,2	7,8	8,0

Seasonally adjusted estimates	December 2012	% change between November and December 2012	% change between July to September 2012 and October to December 2012
Physical volume of manufacturing production index (base: 2005=100)	106,3	-2,2	1,6
Total value of sales of manufactured products (R million)	131 037	-1,4	5,0

**Manufacturing production for 2012 reflected an increase of 2,0% compared with 2011. Higher production was reported by seven of the ten manufacturing divisions.**

The annual increase of 2,0% was mainly due to higher production in the following divisions:

- petroleum, chemical products, rubber and plastic products (5,2% and contributing 1,3 percentage points);
- food and beverages (2,1% and contributing 0,4 of a percentage point);
- motor vehicles, parts and accessories and other transport equipment (2,3% and contributing 0,3 of a percentage point); and
- wood and wood products, paper, publishing and printing (2,4% and contributing 0,2 of a percentage point) (see Table 10).

**Manufacturing production increased by 2,0% in December 2012 compared with December 2011.**

The 2,0% year-on-year increase in manufacturing production in December 2012 was due to higher production in the following divisions:

- petroleum, chemical products, rubber and plastic products (9,5% and contributing 2,3 percentage points);
- motor vehicles, parts and accessories and 'other' transport equipment (10,9% and contributing 0,8 of a percentage point);
- furniture and 'other' manufacturing groups (15,4% and contributing 0,5 of a percentage point); and
- glass and non-metallic mineral products (3,2% and contributing 0,1 of a percentage point) (see Table 4b).

**Seasonally adjusted manufacturing production in the fourth quarter of 2012 increased by 1,6% compared with the third quarter of 2012. Six of the ten manufacturing divisions reported positive growth rates over this period.**

The largest contributions to the increase of 1,6% were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (6,4% and contributing 1,6 percentage points);
- wood and wood products, paper, publishing and printing (3,8% and contributing 0,4 of a percentage point);
- basic iron and steel, non-ferrous metal products, metal products and machinery (2,0% and contributing 0,4 of a percentage point); and
- glass and non-metallic mineral products (4,0% and contributing 0,2 of a percentage point) (see Table B).

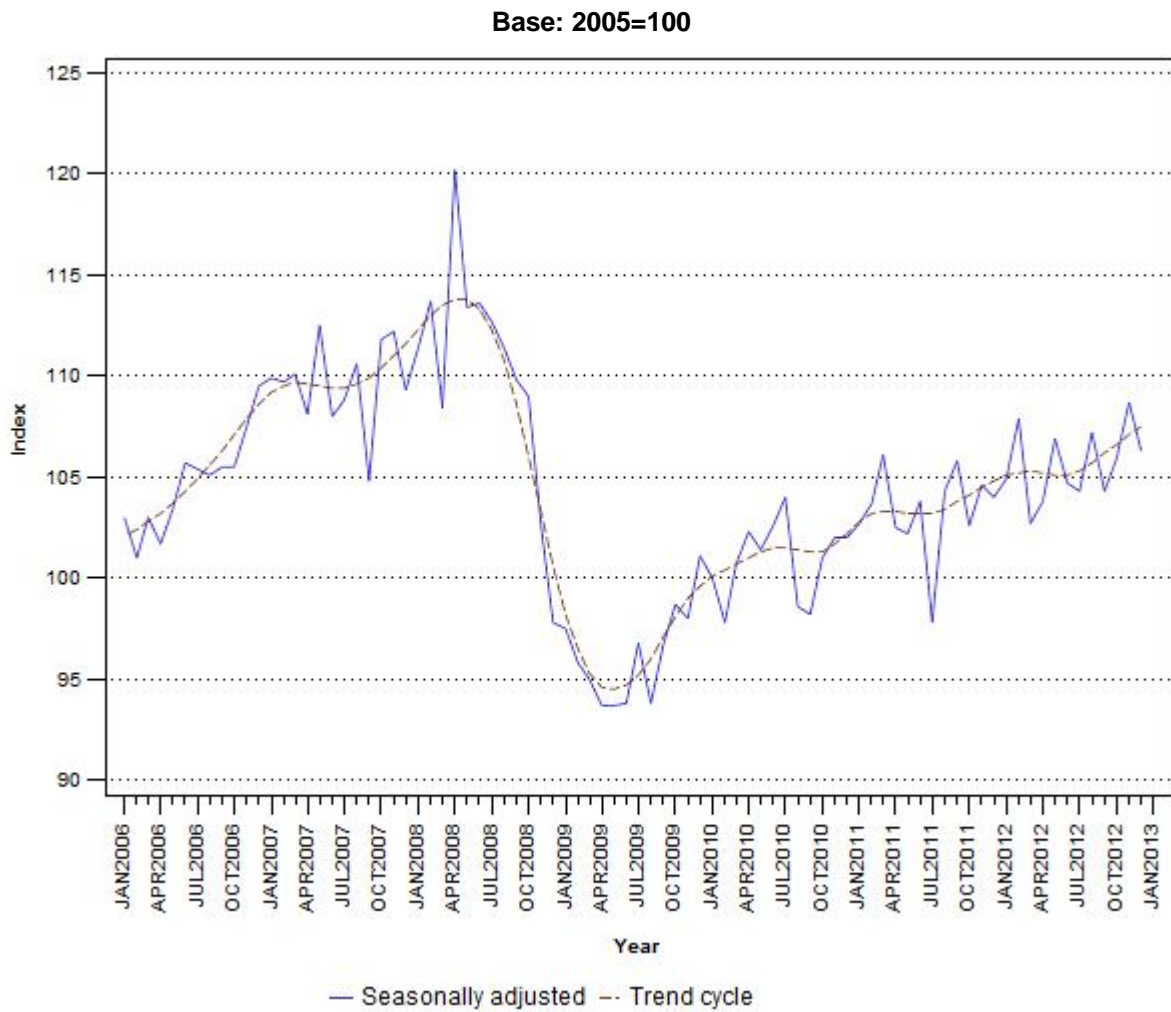
**Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production**

**Base: 2005=100**

Manufacturing divisions and major groups	Weights 2005	Average seasonally adjusted production index for July to September 2012	Average seasonally adjusted production index for October to December 2012	Quarterly % change of October to December 2012 compared with the preceding three months	Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/
<b>Food and beverages</b>	<b>15,4</b>	<b>122,0</b>	<b>119,9</b>	<b>-1,7</b>	<b>-0,3</b>
-Meat, fish, fruit, etc.	1,8	121,7	120,0	-1,4	0,0
-Dairy products	0,8	120,6	119,7	-0,7	0,0
-Grain mill products	0,8	119,3	118,3	-0,8	0,0
-Other food products	5,2	112,5	105,6	-6,1	-0,3
-Beverages	6,8	129,8	131,0	0,9	0,1
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>82,4</b>	<b>81,4</b>	<b>-1,2</b>	<b>0,0</b>
-Textiles	1,6	64,0	62,3	-2,7	0,0
-Wearing apparel	2,3	87,6	86,9	-0,8	0,0
-Leather and leather products	0,6	95,9	99,3	3,5	0,0
-Footwear	0,4	103,2	97,2	-5,8	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>99,8</b>	<b>103,6</b>	<b>3,8</b>	<b>0,4</b>
-Wood and products of wood	2,0	89,2	90,7	1,7	0,0
-Paper and paper products	3,8	109,8	113,0	2,9	0,1
-Publishing and printing	4,3	95,8	101,1	5,5	0,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>118,1</b>	<b>125,6</b>	<b>6,4</b>	<b>1,6</b>
-Coke, petroleum products and nuclear fuel	8,5	96,3	106,9	11,0	0,9
-Basic chemicals	4,5	128,4	143,1	11,4	0,6
-Other chemical products	5,3	130,8	131,6	0,6	0,0
-Rubber products	1,0	91,7	90,4	-1,4	0,0
-Plastic products	2,7	154,1	155,6	1,0	0,0
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>93,3</b>	<b>97,0</b>	<b>4,0</b>	<b>0,2</b>
-Glass and glass products	1,0	125,2	123,1	-1,7	0,0
-Non-metallic mineral products	3,8	85,3	90,5	6,1	0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>90,4</b>	<b>92,2</b>	<b>2,0</b>	<b>0,4</b>
-Basic iron and steel products	7,7	74,9	72,2	-3,6	-0,2
-Basic precious, non-ferrous metal products	3,4	95,1	103,3	8,6	0,3
-Fabricated metal products	5,7	109,5	110,2	0,6	0,0
-Machinery and equipment	6,1	89,2	94,0	5,4	0,3
<b>Electrical machinery</b>	<b>2,5</b>	<b>126,4</b>	<b>122,9</b>	<b>-2,8</b>	<b>-0,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>111,7</b>	<b>114,6</b>	<b>2,6</b>	<b>0,0</b>
-Radio, television and communication apparatus	0,4	123,8	129,5	4,6	0,0
-Professional equipment	0,7	104,1	105,2	1,1	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>108,1</b>	<b>103,0</b>	<b>-4,7</b>	<b>-0,5</b>
-Motor vehicles	4,9	114,2	103,0	-9,8	-0,5
-Bodies for motor vehicles, trailers and semi-trailers	0,5	130,5	132,9	1,8	0,0
-Parts and accessories	4,7	96,9	98,3	1,4	0,1
-Other transport equipment	0,9	121,0	112,8	-6,8	-0,1
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>92,3</b>	<b>93,4</b>	<b>1,2</b>	<b>0,1</b>
-Furniture	1,3	105,3	102,4	-2,8	0,0
-Other manufacturing groups	3,9	88,0	90,4	2,7	0,1
<b>Total</b>	<b>100,0</b>	<b>105,3</b>	<b>107,0</b>	<b>1,6</b>	<b>1,6</b>

1/ The contribution (percentage points) of a major group or division to the total seasonally adjusted manufacturing production is calculated by multiplying the difference in the index of the major group or division by the weight of the major group or division and then dividing by the previous period total manufacturing index.  
Figures have been rounded off.

**Figure 1 – Index of the physical volume of manufacturing production: 2006 – 2012**



**Seasonally adjusted sales of manufactured products (at current prices) increased by 5,0% (R18 834 million) in the fourth quarter 2012 compared with the third quarter. Seven of the ten manufacturing divisions reported positive growth rates over this period.**

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were petroleum, chemical products, rubber and plastic products (13,5% or R12 052 million); basic iron and steel, non-ferrous metal products, metal products and machinery (6,6% or R5 200 million); food and beverages (3,3% or R2 551 million); and wood and wood products, paper, publishing and printing (5,4% or R1 635 million).

These increases were partially counteracted by lower sales recorded for the motor vehicles, parts and accessories and 'other' transport equipment division (-7,0% or -R3 327 million) (see Table C).

**Table C – Contribution of manufacturing divisions and major groups to the three-monthly total seasonally adjusted sales of the manufacturing industry at current prices**

Manufacturing divisions and major groups	Seasonally adjusted sales July to September 2012	Seasonally adjusted sales October to December 2012	% change between July to September 2012 and October to December 2012	Difference in seasonally adjusted sales of manufacturing divisions between July to September 2012 and October to December 2012
	R'000	R'000	%	R'000
<b>Food and beverages</b>	<b>78 114 260</b>	<b>80 664 862</b>	<b>3,3</b>	<b>2 550 602</b>
-Food and food products	58 454 085	60 118 874	2,8	1 664 789
-Beverages	19 660 175	20 545 988	4,5	885 813
<b>Textiles, clothing, leather and footwear</b>	<b>9 920 770</b>	<b>10 190 376</b>	<b>2,7</b>	<b>269 606</b>
-Textiles	3 574 018	3 584 146	0,3	10 128
-Wearing apparel	4 192 831	4 278 506	2,0	85 675
-Leather and leather products	1 296 905	1 436 098	10,7	139 193
-Footwear	857 017	891 627	4,0	34 610
<b>Wood and wood products, paper, publishing and printing</b>	<b>30 044 645</b>	<b>31 680 003</b>	<b>5,4</b>	<b>1 635 358</b>
-Wood and products of wood	6 328 042	6 597 177	4,3	269 135
-Paper and paper products	13 078 815	13 462 184	2,9	383 369
-Publishing and printing	10 637 788	11 620 642	9,2	982 854
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>88 971 547</b>	<b>101 023 815</b>	<b>13,5</b>	<b>12 052 268</b>
-Coke, petroleum products and nuclear fuel	36 357 427	46 086 124	26,8	9 728 697
-Basic chemicals	18 778 219	20 470 397	9,0	1 692 178
-Other chemical products	19 158 327	19 465 327	1,6	307 000
-Rubber products	3 818 137	3 843 384	0,7	25 247
-Plastic products	10 859 437	11 158 581	2,8	299 144
<b>Glass and non-metallic mineral products</b>	<b>11 479 994</b>	<b>12 119 014</b>	<b>5,6</b>	<b>639 020</b>
-Glass and glass products	2 183 884	2 077 797	-4,9	-106 087
-Non-metallic mineral products	9 296 110	10 041 216	8,0	745 106
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>78 322 210</b>	<b>83 522 412</b>	<b>6,6</b>	<b>5 200 202</b>
-Basic iron and steel products	22 736 570	24 253 422	6,7	1 516 852
-Basic precious, non-ferrous metal products	14 971 563	16 547 840	10,5	1 576 277
-Fabricated metal products	21 081 602	21 777 183	3,3	695 581
-Machinery and equipment	19 532 474	20 943 968	7,2	1 411 494
<b>Electrical machinery</b>	<b>11 057 659</b>	<b>10 806 430</b>	<b>-2,3</b>	<b>-251 229</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>3 872 940</b>	<b>4 015 908</b>	<b>3,7</b>	<b>142 968</b>
-Radio, television and communication apparatus	1 902 268	2 026 401	6,5	124 133
-Professional equipment	1 970 671	1 989 507	1,0	18 836
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>47 632 741</b>	<b>44 306 208</b>	<b>-7,0</b>	<b>-3 326 533</b>
-Motor vehicles, trailers, parts and accessories	42 857 072	39 786 186	-7,2	-3 070 886
-Other transport equipment	4 775 668	4 520 022	-5,4	-255 646
<b>Furniture and other manufacturing division</b>	<b>15 458 042</b>	<b>15 379 823</b>	<b>-0,5</b>	<b>-78 219</b>
-Furniture	3 511 577	3 547 895	1,0	36 318
-Other manufacturing groups	11 946 466	11 831 929	-1,0	-114 537
<b>Total</b>	<b>374 874 805</b>	<b>393 708 850</b>	<b>5,0</b>	<b>18 834 045</b>

**Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2012**



**PJ Lehohla**  
**Statistician-General**

## Detailed results

**Table 1 – Total index of the physical volume of manufacturing production: 2006 – 2012**

**Base: 2005=100**

Month	2006	2007	2008	2009	2010	2011	2012
Jan	89,7	95,0	95,9	83,4	85,9	88,0	90,0
Feb	96,7	104,7	108,5	91,5	93,7	99,7	103,8
Mar	106,2	113,6	111,9	98,3	104,7	110,4	107,2
Apr	95,6	101,0	111,9	87,1	94,6	94,7	95,4
May	104,3	113,4	114,3	94,1	101,9	102,8	107,3
Jun	106,7	109,2	115,1	94,9	103,8	104,9	105,8
Jul	107,4	111,2	115,2	98,9	106,0	99,4	105,9
Aug	108,8	114,4	114,9	96,7	101,7	107,7	110,6
Sep	109,7	108,9	114,2	100,7	102,1	110,5	108,6
Oct	117,0	124,1	121,1	109,1	111,8	113,2	1/ 116,3
Nov	119,1	124,3	114,3	108,4	113,7	117,1	1/ 121,4
Dec	96,6	96,5	87,8	90,2	90,9	93,1	1/ 95,0
Year	<b>104,8</b>	<b>109,7</b>	<b>110,4</b>	<b>96,1</b>	<b>100,9</b>	<b>103,5</b>	<b>105,6</b>

1/ Preliminary.

**Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2006 – 2012**

**2/**

Month	2006	2007	2008	2009	2010	2011	2012
Jan	5,8	5,9	0,9	-13,0	3,0	2,4	2,3
Feb	1,6	8,3	3,6	-15,7	2,4	6,4	4,1
Mar	4,9	7,0	-1,5	-12,2	6,5	5,4	-2,9
Apr	-0,9	5,6	10,8	-22,2	8,6	0,1	0,7
May	3,9	8,7	0,8	-17,7	8,3	0,9	4,4
Jun	6,4	2,3	5,4	-17,5	9,4	1,1	0,9
Jul	6,2	3,5	3,6	-14,1	7,2	-6,2	6,5
Aug	5,1	5,1	0,4	-15,8	5,2	5,9	2,7
Sep	2,0	-0,7	4,9	-11,8	1,4	8,2	-1,7
Oct	9,2	6,1	-2,4	-9,9	2,5	1,3	2,7
Nov	7,5	4,4	-8,0	-5,2	4,9	3,0	3,7
Dec	5,7	-0,1	-9,0	2,7	0,8	2,4	2,0
Year	<b>4,8</b>	<b>4,7</b>	<b>0,6</b>	<b>-13,0</b>	<b>5,0</b>	<b>2,6</b>	<b>2,0</b>

2/ The annual percentage change is the change in the index of the physical volume of manufacturing production of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

**Table 3 – Seasonally adjusted index of the total physical volume of manufacturing production: 2006 – 2012**

**Base: 2005=100**

Month	2006	2007	2008	2009	2010	2011	2012
Jan	103,0	109,9	111,4	97,5	100,0	102,7	104,9
Feb	101,0	109,7	113,7	95,8	97,8	103,7	107,9
Mar	103,0	110,1	108,4	95,0	100,7	106,1	102,7
Apr	101,7	108,1	120,2	93,7	102,3	102,5	103,8
May	103,4	112,5	113,4	93,7	101,4	102,2	106,9
Jun	105,7	108,0	113,6	93,8	102,6	103,8	104,7
Jul	105,4	108,8	112,7	96,8	104,0	97,8	104,3
Aug	105,1	110,6	111,4	93,8	98,6	104,3	107,2
Sep	105,5	104,8	109,8	96,7	98,2	105,8	104,3
Oct	105,5	111,8	109,0	98,7	101,0	102,6	105,9
Nov	107,5	112,2	102,6	98,0	102,0	104,6	108,7
Dec	109,5	109,3	97,8	101,1	102,0	104,0	106,3



**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 2005	Average for 2012	Actual indices			Seasonally adjusted indices		
			December 2011	1/ November 2012	1/ December 2012	December 2011	November 2012	December 2012
<b>Food and beverages</b>	<b>15,4</b>	<b>121,7</b>	<b>136,5</b>	<b>137,2</b>	<b>135,8</b>	<b>120,8</b>	<b>121,0</b>	<b>118,5</b>
-Meat, fish, fruit, etc.	1,8	121,9	130,3	130,2	120,6	120,9	120,0	111,8
-Dairy products	0,8	121,6	133,5	134,4	129,0	120,1	121,9	116,4
-Grain mill products	0,8	116,2	112,0	128,0	116,5	111,9	119,5	117,1
-Other food products	5,2	113,7	103,8	120,9	93,8	116,8	109,1	105,1
-Beverages	6,8	128,3	166,3	152,9	174,8	125,0	130,5	131,0
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>81,9</b>	<b>63,9</b>	<b>100,5</b>	<b>63,4</b>	<b>80,8</b>	<b>82,8</b>	<b>79,8</b>
-Textiles	0,7	58,0	44,7	65,4	38,4	63,9	57,8	54,7
-Other textile products	0,9	69,6	51,8	78,0	51,7	67,1	65,0	67,0
-Knitted, crocheted articles	0,2	73,8	60,1	83,5	50,5	82,4	80,1	69,0
-Wearing apparel	2,1	85,9	69,9	114,0	70,4	84,7	90,4	85,5
-Leather and leather products	0,6	98,2	75,5	113,3	84,1	88,6	99,0	98,3
-Footwear	0,4	104,5	74,6	123,5	67,0	105,7	99,2	95,1
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>100,0</b>	<b>98,3</b>	<b>120,9</b>	<b>92,8</b>	<b>105,4</b>	<b>105,1</b>	<b>99,5</b>
-Sawmilling and planing of wood	0,7	90,3	75,4	101,7	70,8	99,4	93,8	92,7
-Products of wood	1,3	88,7	74,6	106,6	74,6	89,6	89,9	89,1
-Paper and paper products	3,8	111,9	116,0	129,9	112,4	115,0	119,4	111,2
-Publishing	1,9	93,2	108,5	122,5	87,5	114,7	102,9	92,4
-Printing, recorded media	2,5	95,2	81,7	118,6	82,0	93,3	95,5	93,9
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>118,9</b>	<b>103,7</b>	<b>137,3</b>	<b>113,5</b>	<b>115,5</b>	<b>126,8</b>	<b>126,0</b>
-Coke, petroleum products and nuclear fuel	8,5	96,4	79,2	101,1	102,7	82,9	108,6	108,4
-Basic chemicals	4,5	134,4	127,0	163,9	133,4	141,5	142,2	147,8
-Other chemical products	5,3	127,9	121,4	153,8	116,4	133,9	134,5	128,3
-Rubber products	1,0	95,2	57,3	99,6	60,7	85,4	87,4	90,5
-Plastic products	2,7	154,4	123,5	187,9	126,8	148,6	156,7	152,8
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,8</b>	<b>77,9</b>	<b>109,1</b>	<b>80,4</b>	<b>93,9</b>	<b>94,9</b>	<b>96,3</b>
-Glass and glass products	1,0	121,0	91,7	144,5	113,6	98,1	116,8	121,7
-Non-metallic mineral products	3,8	90,7	74,5	100,2	72,1	92,9	89,4	90,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>91,5</b>	<b>80,6</b>	<b>102,3</b>	<b>77,1</b>	<b>94,9</b>	<b>94,6</b>	<b>91,1</b>
-Basic iron and steel products	7,7	73,8	70,8	75,0	63,4	82,2	76,0	73,7
-Non-ferrous metal products	3,4	97,6	102,5	108,9	97,3	107,5	104,8	102,2
-Structural metal products	2,0	91,4	72,8	97,0	68,9	93,8	86,5	88,3
-Other fabricated metal products	3,8	120,5	84,6	144,5	85,6	116,4	121,3	118,0
-General purpose machinery	2,4	77,1	64,3	88,8	71,8	71,2	77,0	79,6
-Special purpose machinery	3,1	100,5	93,2	120,7	86,8	102,3	112,2	95,4
-Household appliances	0,6	112,5	80,5	127,9	83,1	110,6	112,7	113,9
<b>Electrical machinery</b>	<b>2,5</b>	<b>127,8</b>	<b>98,6</b>	<b>143,1</b>	<b>93,1</b>	<b>126,2</b>	<b>126,1</b>	<b>119,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>111,3</b>	<b>98,1</b>	<b>136,1</b>	<b>93,8</b>	<b>114,4</b>	<b>117,4</b>	<b>110,3</b>
-Radio, television and communication apparatus	0,4	120,3	86,1	173,0	100,6	99,9	139,5	118,8
-Professional equipment	0,7	105,6	105,7	112,7	89,5	123,6	103,4	105,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>105,5</b>	<b>64,2</b>	<b>119,5</b>	<b>71,2</b>	<b>97,4</b>	<b>107,0</b>	<b>109,0</b>
-Motor vehicles	4,9	106,6	52,0	120,5	68,4	86,9	109,7	114,1
-Bodies for motor vehicles, trailers and semi-trailers	0,5	133,2	99,2	168,7	83,5	148,2	140,8	123,9
-Parts and accessories	4,7	100,0	67,5	112,6	68,6	101,3	99,2	102,4
-Other transport equipment	0,9	113,9	93,7	125,1	92,4	108,2	115,6	108,1
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>93,3</b>	<b>62,9</b>	<b>112,7</b>	<b>72,6</b>	<b>75,5</b>	<b>95,1</b>	<b>88,3</b>
-Furniture	1,3	103,1	72,7	134,1	83,7	86,9	102,6	100,1
-Other manufacturing groups	3,9	90,1	59,6	105,6	68,9	71,7	92,6	84,4
<b>Total</b>	<b>100,0</b>	<b>105,6</b>	<b>93,1</b>	<b>121,4</b>	<b>95,0</b>	<b>104,0</b>	<b>108,7</b>	<b>106,3</b>

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 2005	Average for 2012	Actual indices			Seasonally adjusted indices		
			December 2011	1/ December 2012	% change between December 2011 and December 2012	November 2012	December 2012	% change between November and December 2012
<b>Food and beverages</b>	<b>15,4</b>	<b>121,7</b>	<b>136,5</b>	<b>135,8</b>	<b>-0,5</b>	<b>121,0</b>	<b>118,5</b>	<b>-2,1</b>
-Meat, fish, fruit, etc.	1,8	121,9	130,3	120,6	-7,4	120,0	111,8	-6,8
-Dairy products	0,8	121,6	133,5	129,0	-3,4	121,9	116,4	-4,5
-Grain mill products	0,8	116,2	112,0	116,5	4,0	119,5	117,1	-2,0
-Other food products	5,2	113,7	103,8	93,8	-9,6	109,1	105,1	-3,7
-Beverages	6,8	128,3	166,3	174,8	5,1	130,5	131,0	0,4
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>81,9</b>	<b>63,9</b>	<b>63,4</b>	<b>-0,8</b>	<b>82,8</b>	<b>79,8</b>	<b>-3,6</b>
-Textiles	0,7	58,0	44,7	38,4	-14,1	57,8	54,7	-5,4
-Other textile products	0,9	69,6	51,8	51,7	-0,2	65,0	67,0	3,1
-Knitted, crocheted articles	0,2	73,8	60,1	50,5	-16,0	80,1	69,0	-13,9
-Wearing apparel	2,1	85,9	69,9	70,4	0,7	90,4	85,5	-5,4
-Leather and leather products	0,6	98,2	75,5	84,1	11,4	99,0	98,3	-0,7
-Footwear	0,4	104,5	74,6	67,0	-10,2	99,2	95,1	-4,1
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>100,0</b>	<b>98,3</b>	<b>92,8</b>	<b>-5,6</b>	<b>105,1</b>	<b>99,5</b>	<b>-5,3</b>
-Sawmilling and planing of wood	0,7	90,3	75,4	70,8	-6,1	93,8	92,7	-1,2
-Products of wood	1,3	88,7	74,6	74,6	0,0	89,9	89,1	-0,9
-Paper and paper products	3,8	111,9	116,0	112,4	-3,1	119,4	111,2	-6,9
-Publishing	1,9	93,2	108,5	87,5	-19,4	102,9	92,4	-10,2
-Printing, recorded media	2,5	95,2	81,7	82,0	0,4	95,5	93,9	-1,7
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>118,9</b>	<b>103,7</b>	<b>113,5</b>	<b>9,5</b>	<b>126,8</b>	<b>126,0</b>	<b>-0,6</b>
-Coke, petroleum products and nuclear fuel	8,5	96,4	79,2	102,7	29,7	108,6	108,4	-0,2
-Basic chemicals	4,5	134,4	127,0	133,4	5,0	142,2	147,8	3,9
-Other chemical products	5,3	127,9	121,4	116,4	-4,1	134,5	128,3	-4,6
-Rubber products	1,0	95,2	57,3	60,7	5,9	87,4	90,5	3,5
-Plastic products	2,7	154,4	123,5	126,8	2,7	156,7	152,8	-2,5
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,8</b>	<b>77,9</b>	<b>80,4</b>	<b>3,2</b>	<b>94,9</b>	<b>96,3</b>	<b>1,5</b>
-Glass and glass products	1,0	121,0	91,7	113,6	23,9	116,8	121,7	4,2
-Non-metallic mineral products	3,8	90,7	74,5	72,1	-3,2	89,4	90,0	0,7
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>91,5</b>	<b>80,6</b>	<b>77,1</b>	<b>-4,3</b>	<b>94,6</b>	<b>91,1</b>	<b>-3,7</b>
-Basic iron and steel products	7,7	73,8	70,8	63,4	-10,5	76,0	73,7	-3,0
-Non-ferrous metal products	3,4	97,6	102,5	97,3	-5,1	104,8	102,2	-2,5
-Structural metal products	2,0	91,4	72,8	68,9	-5,4	86,5	88,3	2,1
-Other fabricated metal products	3,8	120,5	84,6	85,6	1,2	121,3	118,0	-2,7
-General purpose machinery	2,4	77,1	64,3	71,8	11,7	77,0	79,6	3,4
-Special purpose machinery	3,1	100,5	93,2	86,8	-6,9	112,2	95,4	-15,0
-Household appliances	0,6	112,5	80,5	83,1	3,2	112,7	113,9	1,1
<b>Electrical machinery</b>	<b>2,5</b>	<b>127,8</b>	<b>98,6</b>	<b>93,1</b>	<b>-5,6</b>	<b>126,1</b>	<b>119,0</b>	<b>-5,6</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>111,3</b>	<b>98,1</b>	<b>93,8</b>	<b>-4,4</b>	<b>117,4</b>	<b>110,3</b>	<b>-6,0</b>
-Radio, television and communication apparatus	0,4	120,3	86,1	100,6	16,8	139,5	118,8	-14,8
-Professional equipment	0,7	105,6	105,7	89,5	-15,3	103,4	105,0	1,5
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>105,5</b>	<b>64,2</b>	<b>71,2</b>	<b>10,9</b>	<b>107,0</b>	<b>109,0</b>	<b>1,9</b>
-Motor vehicles	4,9	106,6	52,0	68,4	31,5	109,7	114,1	4,0
-Bodies for motor vehicles, trailers and semi-trailers	0,5	133,2	99,2	83,5	-15,8	140,8	123,9	-12,0
-Parts and accessories	4,7	100,0	67,5	68,6	1,6	99,2	102,4	3,2
-Other transport equipment	0,9	113,9	93,7	92,4	-1,4	115,6	108,1	-6,5
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>93,3</b>	<b>62,9</b>	<b>72,6</b>	<b>15,4</b>	<b>95,1</b>	<b>88,3</b>	<b>-7,2</b>
-Furniture	1,3	103,1	72,7	83,7	15,1	102,6	100,1	-2,4
-Other manufacturing groups	3,9	90,1	59,6	68,9	15,6	92,6	84,4	-8,9
<b>Total</b>	<b>100,0</b>	<b>105,6</b>	<b>93,1</b>	<b>95,0</b>	<b>2,0</b>	<b>108,7</b>	<b>106,3</b>	<b>-2,2</b>

1/ Preliminary.

**Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2006 – 2012**

Month	2006	2007	2008	2009	2010	2011	2012
Jan	68 501 312	82 751 979	92 718 406	87 095 583	88 149 838	94 246 838	104 935 789
Feb	76 254 560	94 752 037	109 968 010	98 910 325	99 414 819	108 823 746	122 863 314
Mar	84 627 558	101 801 537	116 559 343	106 853 461	112 150 984	123 042 345	130 042 791
Apr	75 920 578	92 055 334	118 743 978	91 481 056	99 179 387	105 427 353	114 751 285
May	85 323 073	103 294 995	122 009 401	97 891 568	106 725 647	114 987 796	127 234 354
Jun	89 191 215	100 363 915	126 717 920	99 620 665	110 984 952	119 312 466	127 603 367
Jul	90 340 495	101 001 703	130 306 185	101 194 755	110 310 285	110 290 349	124 597 549
Aug	94 106 608	106 756 672	128 075 397	102 171 776	107 873 773	121 774 032	130 989 591
Sep	96 312 774	102 072 116	127 557 225	106 385 385	110 151 480	129 822 841	128 466 040
Oct	101 657 037	115 324 079	133 838 287	111 499 001	118 674 521	130 325 799	1/ 140 601 491
Nov	105 210 421	117 861 959	124 514 657	113 598 170	123 230 894	135 588 107	1/ 148 964 299
Dec	83 953 143	93 460 862	97 565 655	96 538 722	101 389 781	114 218 802	1/ 120 119 183
Year	<b>1 051 398 774</b>	<b>1 211 497 188</b>	<b>1 428 574 464</b>	<b>1 213 240 467</b>	<b>1 288 236 361</b>	<b>1 407 860 474</b>	<b>1 521 169 053</b>

1/ Preliminary.

**Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2006 – 2012 2/**

Month	2006	2007	2008	2009	2010	2011	2012
Jan	11,1	20,8	12,0	-6,1	1,2	6,9	11,3
Feb	6,9	24,3	16,1	-10,1	0,5	9,5	12,9
Mar	11,5	20,3	14,5	-8,3	5,0	9,7	5,7
Apr	1,5	21,3	29,0	-23,0	8,4	6,3	8,8
May	10,7	21,1	18,1	-19,8	9,0	7,7	10,7
Jun	13,4	12,5	26,3	-21,4	11,4	7,5	6,9
Jul	14,9	11,8	29,0	-22,3	9,0	0,0	13,0
Aug	15,9	13,4	20,0	-20,2	5,6	12,9	7,6
Sep	14,3	6,0	25,0	-16,6	3,5	17,9	-1,0
Oct	20,8	13,4	16,1	-16,7	6,4	9,8	7,9
Nov	19,6	12,0	5,6	-8,8	8,5	10,0	9,9
Dec	12,4	11,3	4,4	-1,1	5,0	12,7	5,2
Year	<b>13,0</b>	<b>15,2</b>	<b>17,9</b>	<b>-15,1</b>	<b>6,2</b>	<b>9,3</b>	<b>8,0</b>

2/ The annual percentage change is the change in the sales of the manufacturing industry of the relevant month of the current year compared with the sales of the corresponding month of the previous year expressed as a percentage.

**Table 7 – Total seasonally adjusted sales of the manufacturing industry at current prices (R'000): 2006 – 2012**

Month	2006	2007	2008	2009	2010	2011	2012
Jan	81 502 676	98 490 494	110 239 530	104 187 968	105 168 098	112 215 013	124 161 153
Feb	79 532 273	99 121 086	115 350 244	103 390 647	103 511 638	113 397 744	128 433 926
Mar	82 405 480	98 732 965	112 806 784	102 954 095	107 237 993	117 599 059	124 296 617
Apr	81 092 313	98 602 842	127 391 343	98 428 068	106 960 566	113 681 706	123 913 026
May	85 073 744	102 839 278	121 314 027	98 179 268	106 894 415	114 947 638	127 390 655
Jun	87 742 205	98 383 061	123 613 898	97 636 764	108 613 548	116 655 363	124 726 809
Jul	88 642 873	98 978 898	127 334 703	99 726 292	109 130 637	109 530 821	123 969 789
Aug	90 942 888	103 292 153	123 775 631	99 426 926	105 477 829	119 160 578	128 198 589
Sep	91 281 167	96 842 394	121 094 837	101 226 105	104 763 478	123 721 687	122 706 427
Oct	92 453 003	104 757 303	121 705 596	101 784 722	108 653 767	119 882 267	129 769 728
Nov	94 695 694	106 065 213	111 880 610	101 830 404	109 741 558	120 656 917	132 902 249
Dec	94 083 710	104 889 712	108 096 813	106 186 621	111 187 034	125 135 729	131 036 873

**Table 8a – Estimated sales of the manufacturing industry at current prices according to manufacturing divisions and major groups (R'000)**

Manufacturing divisions and major groups	Year 2012	Actual values			Seasonally adjusted values		
		December 2011	1/ November 2012	1/ December 2012	December 2011	November 2012	December 2012
<b>Food and beverages</b>	<b>310 960 711</b>	<b>28 478 334</b>	<b>30 353 120</b>	<b>30 419 211</b>	<b>24 662 871</b>	<b>26 993 328</b>	<b>26 396 642</b>
-Meat, fish, fruit, etc.	80 238 645	7 114 460	7 636 855	7 298 110	6 386 743	6 899 339	6 548 570
-Dairy products	27 298 614	2 383 525	2 504 174	2 480 929	2 148 848	2 294 167	2 245 124
-Grain mill products	54 463 557	4 291 321	5 186 022	4 818 574	4 213 247	4 786 221	4 757 851
-Other food products	70 643 681	5 472 167	6 981 982	5 972 746	5 614 247	6 054 109	6 124 840
-Beverages	78 316 214	9 216 861	8 044 087	9 848 852	6 299 786	6 959 493	6 720 256
<b>Textiles, clothing, leather and footwear</b>	<b>39 864 058</b>	<b>2 716 459</b>	<b>4 203 951</b>	<b>2 813 771</b>	<b>3 288 632</b>	<b>3 427 500</b>	<b>3 404 352</b>
-Textiles	4 466 351	283 638	445 322	258 461	397 919	390 865	362 763
-Other textile products	9 996 503	716 426	1 001 923	649 712	876 525	827 879	795 665
-Knitted, crocheted articles	1 720 741	114 630	167 739	108 661	152 422	151 000	144 945
-Wearing apparel	14 792 640	1 031 266	1 649 288	1 112 660	1 163 204	1 298 420	1 257 713
-Leather and leather products	5 344 400	329 863	506 443	428 883	418 403	455 980	544 182
-Footwear	3 543 423	240 636	433 236	255 394	280 160	303 356	299 085
<b>Wood and wood products, paper, publishing and printing</b>	<b>120 207 284</b>	<b>9 541 400</b>	<b>12 296 588</b>	<b>9 430 568</b>	<b>10 294 337</b>	<b>10 604 534</b>	<b>10 167 367</b>
-Sawmilling and planing of wood	8 947 125	634 769	869 749	601 186	800 350	797 010	756 107
-Products of wood	16 644 380	1 117 016	1 743 029	1 149 655	1 352 463	1 462 390	1 391 097
-Paper and paper products	52 457 459	4 363 956	5 117 213	4 446 129	4 428 873	4 599 290	4 491 909
-Publishing	18 190 872	1 763 908	2 057 380	1 477 635	1 813 951	1 741 405	1 516 339
-Printing, recorded media	23 967 448	1 661 751	2 509 217	1 755 963	1 898 699	2 004 439	2 011 915
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>370 822 210</b>	<b>25 752 642</b>	<b>36 273 318</b>	<b>30 596 811</b>	<b>28 896 373</b>	<b>34 113 800</b>	<b>34 471 854</b>
-Coke, petroleum products and nuclear fuel	159 593 866	10 122 305	14 302 511	14 146 537	11 658 532	15 546 772	16 394 853
-Basic chemicals	76 631 922	5 833 668	8 389 377	6 262 654	6 345 744	7 085 378	6 760 606
-Other chemical products	75 293 231	5 878 401	7 661 027	6 109 392	6 183 741	6 503 829	6 414 202
-Rubber products	15 716 303	1 041 043	1 410 820	1 016 474	1 322 736	1 232 433	1 291 256
-Plastic products	43 586 888	2 877 225	4 509 583	3 061 754	3 385 620	3 745 388	3 610 935
<b>Glass and non-metallic mineral products</b>	<b>47 460 287</b>	<b>3 080 462</b>	<b>4 859 530</b>	<b>3 142 140</b>	<b>3 845 267</b>	<b>4 084 907</b>	<b>3 892 783</b>
-Glass and glass products	8 181 045	584 503	930 189	680 338	595 638	674 022	692 483
-Non-metallic mineral products	39 279 242	2 495 959	3 929 341	2 461 802	3 249 629	3 410 885	3 200 300
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>325 992 003</b>	<b>23 697 262</b>	<b>31 298 620</b>	<b>23 443 459</b>	<b>28 735 767</b>	<b>28 180 344</b>	<b>28 173 576</b>
-Basic iron and steel products	97 350 267	7 364 174	8 879 871	6 265 447	9 771 437	8 320 741	8 272 480
-Non-ferrous metal products	61 853 438	5 097 139	6 031 164	5 465 961	5 468 646	5 495 599	5 834 463
-Structural metal products	29 316 665	1 797 826	2 768 271	1 975 443	2 316 920	2 463 830	2 538 656
-Other fabricated metal products	56 463 953	3 449 768	5 660 529	3 556 077	4 561 225	4 720 364	4 702 994
-General purpose machinery	30 800 014	2 180 030	2 965 022	2 391 685	2 416 510	2 569 322	2 657 942
-Special purpose machinery	40 221 132	3 146 388	4 054 238	3 181 236	3 348 964	3 787 089	3 383 970
-Household appliances	9 986 534	661 937	939 525	607 610	852 065	823 399	783 071
<b>Electrical machinery</b>	<b>44 872 126</b>	<b>2 856 826</b>	<b>4 197 483</b>	<b>2 721 233</b>	<b>3 615 034</b>	<b>3 683 058</b>	<b>3 448 194</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>15 276 062</b>	<b>1 145 115</b>	<b>1 626 787</b>	<b>1 185 230</b>	<b>1 235 090</b>	<b>1 445 550</b>	<b>1 280 346</b>
-Radio, television and communication apparatus	7 494 377	498 401	923 312	569 448	524 766	780 205	605 715
-Professional equipment	7 781 685	646 714	703 475	615 782	710 324	665 345	674 631
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>183 527 698</b>	<b>12 176 899</b>	<b>17 958 508</b>	<b>11 698 371</b>	<b>15 492 560</b>	<b>15 112 126</b>	<b>14 822 670</b>
-Motor vehicles	93 049 040	6 669 522	9 197 397	6 378 293	7 813 546	7 465 466	7 440 004
-Bodies for motor vehicles, trailers and semi-trailers	8 591 184	578 147	861 778	516 613	746 655	710 216	661 838
-Parts and accessories	63 865 780	3 719 074	6 228 644	3 566 034	5 527 536	5 399 260	5 267 601
-Other transport equipment	18 021 694	1 210 156	1 670 689	1 237 431	1 404 823	1 537 183	1 453 228
<b>Furniture and other manufacturing division</b>	<b>62 186 614</b>	<b>4 773 403</b>	<b>5 896 394</b>	<b>4 668 389</b>	<b>5 069 797</b>	<b>5 257 102</b>	<b>4 979 090</b>
-Furniture	13 937 384	876 973	1 557 248	1 030 135	1 009 199	1 171 773	1 185 438
-Other manufacturing groups	48 249 230	3 896 430	4 339 146	3 638 254	4 060 598	4 085 329	3 793 652
<b>Total</b>	<b>1 521 169 053</b>	<b>114 218 802</b>	<b>148 964 299</b>	<b>120 119 183</b>	<b>125 135 729</b>	<b>132 902 249</b>	<b>131 036 873</b>

1/ Preliminary.

**Table 8b – Estimated sales of the manufacturing industry at current prices according to manufacturing divisions and major groups (R'000) (concluded)**

Manufacturing divisions and major groups	Year 2012	Actual values			Seasonally adjusted values		
		December 2011	1/ December 2012	% change between December 2011 and December 2012	November 2012	December 2012	% change between November and December 2012
<b>Food and beverages</b>	<b>310 960 711</b>	<b>28 478 334</b>	<b>30 419 211</b>	<b>6,8</b>	<b>26 993 328</b>	<b>26 396 642</b>	<b>-2,2</b>
-Meat, fish, fruit, etc.	80 238 645	7 114 460	7 298 110	2,6	6 899 339	6 548 570	-5,1
-Dairy products	27 298 614	2 383 525	2 480 929	4,1	2 294 167	2 245 124	-2,1
-Grain mill products	54 463 557	4 291 321	4 818 574	12,3	4 786 221	4 757 851	-0,6
-Other food products	70 643 681	5 472 167	5 972 746	9,1	6 054 109	6 124 840	1,2
-Beverages	78 316 214	9 216 861	9 848 852	6,9	6 959 493	6 720 256	-3,4
<b>Textiles, clothing, leather and footwear</b>	<b>39 864 058</b>	<b>2 716 459</b>	<b>2 813 771</b>	<b>3,6</b>	<b>3 427 500</b>	<b>3 404 352</b>	<b>-0,7</b>
-Textiles	4 466 351	283 638	258 461	-8,9	390 865	362 763	-7,2
-Other textile products	9 996 503	716 426	649 712	-9,3	827 879	795 665	-3,9
-Knitted, crocheted articles	1 720 741	114 630	108 661	-5,2	151 000	144 945	-4,0
-Wearing apparel	14 792 640	1 031 266	1 112 660	7,9	1 298 420	1 257 713	-3,1
-Leather and leather products	5 344 400	329 863	428 883	30,0	455 980	544 182	19,3
-Footwear	3 543 423	240 636	255 394	6,1	303 356	299 085	-1,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>120 207 284</b>	<b>9 541 400</b>	<b>9 430 568</b>	<b>-1,2</b>	<b>10 604 534</b>	<b>10 167 367</b>	<b>-4,1</b>
-Sawmilling and planing of wood	8 947 125	634 769	601 186	-5,3	797 010	756 107	-5,1
-Products of wood	16 644 380	1 117 016	1 149 655	2,9	1 462 390	1 391 097	-4,9
-Paper and paper products	52 457 459	4 363 956	4 446 129	1,9	4 599 290	4 491 909	-2,3
-Publishing	18 190 872	1 763 908	1 477 635	-16,2	1 741 405	1 516 339	-12,9
-Printing, recorded media	23 967 448	1 661 751	1 755 963	5,7	2 004 439	2 011 915	0,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>370 822 210</b>	<b>25 752 642</b>	<b>30 596 811</b>	<b>18,8</b>	<b>34 113 800</b>	<b>34 471 854</b>	<b>1,0</b>
-Coke, petroleum products and nuclear fuel	159 593 866	10 122 305	14 146 537	39,8	15 546 772	16 394 853	5,5
-Basic chemicals	76 631 922	5 833 668	6 262 654	7,4	7 085 378	6 760 606	-4,6
-Other chemical products	75 293 231	5 878 401	6 109 392	3,9	6 503 829	6 414 202	-1,4
-Rubber products	15 716 303	1 041 043	1 016 474	-2,4	1 232 433	1 291 256	4,8
-Plastic products	43 586 888	2 877 225	3 061 754	6,4	3 745 388	3 610 935	-3,6
<b>Glass and non-metallic mineral products</b>	<b>47 460 287</b>	<b>3 080 462</b>	<b>3 142 140</b>	<b>2,0</b>	<b>4 084 907</b>	<b>3 892 783</b>	<b>-4,7</b>
-Glass and glass products	8 181 045	584 503	680 338	16,4	674 022	692 483	2,7
-Non-metallic mineral products	39 279 242	2 495 959	2 461 802	-1,4	3 410 885	3 200 300	-6,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>325 992 003</b>	<b>23 697 262</b>	<b>23 443 459</b>	<b>-1,1</b>	<b>28 180 344</b>	<b>28 173 576</b>	<b>-0,0</b>
-Basic iron and steel products	97 350 267	7 364 174	6 265 447	-14,9	8 320 741	8 272 480	-0,6
-Non-ferrous metal products	61 853 438	5 097 139	5 465 961	7,2	5 495 599	5 834 463	6,2
-Structural metal products	29 316 665	1 797 826	1 975 443	9,9	2 463 830	2 538 656	3,0
-Other fabricated metal products	56 463 953	3 449 768	3 556 077	3,1	4 720 364	4 702 994	-0,4
-General purpose machinery	30 800 014	2 180 030	2 391 685	9,7	2 569 322	2 657 942	3,4
-Special purpose machinery	40 221 132	3 146 388	3 181 236	1,1	3 787 089	3 383 970	-10,6
-Household appliances	9 986 534	661 937	607 610	-8,2	823 399	783 071	-4,9
<b>Electrical machinery</b>	<b>44 872 126</b>	<b>2 856 826</b>	<b>2 721 233</b>	<b>-4,7</b>	<b>3 683 058</b>	<b>3 448 194</b>	<b>-6,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>15 276 062</b>	<b>1 145 115</b>	<b>1 185 230</b>	<b>3,5</b>	<b>1 445 550</b>	<b>1 280 346</b>	<b>-11,4</b>
-Radio, television and communication apparatus	7 494 377	498 401	569 448	14,3	780 205	605 715	-22,4
-Professional equipment	7 781 685	646 714	615 782	-4,8	665 345	674 631	1,4
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>183 527 698</b>	<b>12 176 899</b>	<b>11 698 371</b>	<b>-3,9</b>	<b>15 112 126</b>	<b>14 822 670</b>	<b>-1,9</b>
-Motor vehicles	93 049 040	6 669 522	6 378 293	-4,4	7 465 466	7 440 004	-0,3
-Bodies for motor vehicles, trailers and semi-trailers	8 591 184	578 147	516 613	-10,6	710 216	661 838	-6,8
-Parts and accessories	63 865 780	3 719 074	3 566 034	-4,1	5 399 260	5 267 601	-2,4
-Other transport equipment	18 021 694	1 210 156	1 237 431	2,3	1 537 183	1 453 228	-5,5
<b>Furniture and other manufacturing division</b>	<b>62 186 614</b>	<b>4 773 403</b>	<b>4 668 389</b>	<b>-2,2</b>	<b>5 257 102</b>	<b>4 979 090</b>	<b>-5,3</b>
-Furniture	13 937 384	876 973	1 030 135	17,5	1 171 773	1 185 438	1,2
-Other manufacturing groups	48 249 230	3 896 430	3 638 254	-6,6	4 085 329	3 793 652	-7,1
<b>Total</b>	<b>1 521 169 053</b>	<b>114 218 802</b>	<b>120 119 183</b>	<b>5,2</b>	<b>132 902 249</b>	<b>131 036 873</b>	<b>-1,4</b>

1/ Preliminary.

**Table 9 – Annual percentage change in the three-monthly physical volume of manufacturing production and estimated sales according to manufacturing divisions and major groups**

Manufacturing divisions and major groups	Weights 2005	Production indices (base: 2005=100)			Value of sales (R'000)		
		Oct. to Dec. 2011	Oct. to Dec. 2012	% change between Oct. to Dec. 2011 and Oct. to Dec. 2012	Oct. to Dec. 2011	Oct. to Dec. 2012	% change between Oct. to Dec. 2011 and Oct. to Dec. 2012
<b>Food and beverages</b>	<b>15,4</b>	<b>136,9</b>	<b>135,4</b>	<b>-1,1</b>	<b>81 919 759</b>	<b>89 958 348</b>	<b>9,8</b>
-Meat, fish, fruit, etc.	1,8	129,3	127,2	-1,6	20 828 780	22 443 211	7,8
-Dairy products	0,8	135,5	133,2	-1,7	7 065 567	7 522 250	6,5
-Grain mill products	0,8	116,8	122,9	5,2	13 102 324	15 021 381	14,6
-Other food products	5,2	123,2	111,4	-9,6	17 895 061	19 701 483	10,1
-Beverages	6,8	152,0	157,4	3,6	23 028 027	25 270 023	9,7
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>85,7</b>	<b>86,5</b>	<b>0,9</b>	<b>10 364 729</b>	<b>10 864 641</b>	<b>4,8</b>
-Textiles	0,7	59,1	56,7	-4,1	1 100 006	1 156 523	5,1
-Other textile products	0,9	75,3	68,4	-9,2	2 718 521	2 557 255	-5,9
-Knitted, crocheted articles	0,2	78,0	68,9	-11,7	458 084	416 664	-9,0
-Wearing apparel	2,1	90,0	96,4	7,1	3 842 190	4 272 871	11,2
-Leather and leather products	0,6	98,9	101,3	2,4	1 259 952	1 408 213	11,8
-Footwear	0,4	111,7	107,0	-4,2	985 976	1 053 115	6,8
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>107,7</b>	<b>110,0</b>	<b>2,1</b>	<b>30 975 388</b>	<b>33 581 959</b>	<b>8,4</b>
-Sawmilling and planing of wood	0,7	88,0	90,5	2,8	2 170 218	2 312 209	6,5
-Products of wood	1,3	93,7	94,2	0,5	4 210 271	4 505 508	7,0
-Paper and paper products	3,8	120,8	119,2	-1,3	13 535 124	14 066 105	3,9
-Publishing	1,9	103,2	116,4	12,8	4 804 745	5 903 616	22,9
-Printing, recorded media	2,5	103,7	104,7	1,0	6 255 030	6 794 521	8,6
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>114,6</b>	<b>127,3</b>	<b>11,1</b>	<b>85 418 270</b>	<b>101 782 080</b>	<b>19,2</b>
-Coke, petroleum products and nuclear fuel	8,5	75,9	101,2	33,3	30 820 939	42 757 084	38,7
-Basic chemicals	4,5	142,7	149,9	5,0	20 302 482	22 281 910	9,7
-Other chemical products	5,3	132,9	138,1	3,9	19 288 360	20 968 383	8,7
-Rubber products	1,0	94,8	87,0	-8,2	4 023 320	3 843 374	-4,5
-Plastic products	2,7	160,5	164,6	2,6	10 983 169	11 931 329	8,6
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>102,9</b>	<b>100,4</b>	<b>-2,4</b>	<b>11 966 507</b>	<b>12 645 061</b>	<b>5,7</b>
-Glass and glass products	1,0	129,3	137,3	6,2	2 150 423	2 457 473	14,3
-Non-metallic mineral products	3,8	96,3	91,1	-5,4	9 816 084	10 187 588	3,8
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>94,2</b>	<b>92,9</b>	<b>-1,4</b>	<b>82 408 729</b>	<b>84 126 226</b>	<b>2,1</b>
-Basic iron and steel products	7,7	76,5	70,0	-8,5	25 288 638	23 241 500	-8,1
-Non-ferrous metal products	3,4	109,5	105,2	-3,9	15 962 210	17 020 654	6,6
-Structural metal products	2,0	89,1	88,8	-0,3	6 658 713	7 504 275	12,7
-Other fabricated metal products	3,8	117,0	122,6	4,8	13 872 645	14 530 682	4,7
-General purpose machinery	2,4	80,1	82,0	2,4	7 968 159	8 279 480	3,9
-Special purpose machinery	3,1	105,2	107,2	1,9	10 140 770	11 046 199	8,9
-Household appliances	0,6	106,3	114,1	7,3	2 517 594	2 503 436	-0,6
<b>Electrical machinery</b>	<b>2,5</b>	<b>130,5</b>	<b>122,4</b>	<b>-6,2</b>	<b>11 079 687</b>	<b>10 757 790</b>	<b>-2,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>110,4</b>	<b>117,6</b>	<b>6,5</b>	<b>3 764 869</b>	<b>4 164 193</b>	<b>10,6</b>
-Radio, television and communication apparatus	0,4	109,1	138,4	26,9	1 795 239	2 191 380	22,1
-Professional equipment	0,7	111,2	104,3	-6,2	1 969 630	1 972 813	0,2
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>96,1</b>	<b>99,8</b>	<b>3,9</b>	<b>46 126 520</b>	<b>45 694 130</b>	<b>-0,9</b>
-Motor vehicles	4,9	87,0	97,8	12,4	23 946 521	23 609 828	-1,4
-Bodies for motor vehicles, trailers and semi-trailers	0,5	132,9	136,4	2,6	2 237 245	2 226 882	-0,5
-Parts and accessories	4,7	99,4	95,1	-4,3	15 760 507	15 246 920	-3,3
-Other transport equipment	0,9	109,0	115,2	5,7	4 182 247	4 610 500	10,2
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>91,0</b>	<b>98,3</b>	<b>8,0</b>	<b>16 108 250</b>	<b>16 110 545</b>	<b>0,0</b>
-Furniture	1,3	106,8	116,1	8,7	3 632 941	4 104 471	13,0
-Other manufacturing groups	3,9	85,7	92,4	7,8	12 475 309	12 006 074	-3,8
<b>Total</b>	<b>100,0</b>	<b>107,8</b>	<b>110,9</b>	<b>2,9</b>	<b>380 132 708</b>	<b>409 684 973</b>	<b>7,8</b>

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

Manufacturing divisions and major groups	Weights 2005	Indices (base: 2005=100)				Value of sales (R million)			
		Jan. to Dec. 2011	Jan. to Dec. 2012	Annual % change between 2011 and 2012	Contribution (% points) 1/	Jan. to Dec. 2011	Jan. to Dec. 2012	Annual % change between 2011 and 2012	Difference in sales between 2011 and 2012
<b>Food and beverages</b>	<b>15,4</b>	<b>119,2</b>	<b>121,7</b>	<b>2,1</b>	<b>0,4</b>	<b>280 768</b>	<b>310 961</b>	<b>10,8</b>	<b>30 193</b>
-Meat, fish, fruit, etc.	1,8	120,2	121,9	1,4	0,0	73 510	80 239	9,2	6 729
-Dairy products	0,8	118,1	121,6	3,0	0,0	24 682	27 299	10,6	2 617
-Grain mill products	0,8	109,3	116,2	6,3	0,1	46 890	54 464	16,2	7 574
-Other food products	5,2	115,8	113,7	-1,8	-0,1	64 240	70 644	10,0	6 404
-Beverages	6,8	123,0	128,3	4,3	0,3	71 446	78 316	9,6	6 870
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>81,9</b>	<b>81,9</b>	<b>0,0</b>	<b>0,0</b>	<b>38 541</b>	<b>39 864</b>	<b>3,4</b>	<b>1 323</b>
-Textiles	0,7	60,5	58,0	-4,1	0,0	4 427	4 466	0,9	39
-Other textile products	0,9	72,7	69,6	-4,3	0,0	10 082	9 997	-0,8	-85
-Knitted, crocheted articles	0,2	90,2	73,8	-18,2	0,0	1 961	1 721	-12,2	-240
-Wearing apparel	2,1	83,2	85,9	3,2	0,1	13 860	14 793	6,7	933
-Leather and leather products	0,6	95,0	98,2	3,4	0,0	4 874	5 344	9,6	470
-Footwear	0,4	106,2	104,5	-1,6	0,0	3 337	3 543	6,2	206
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>97,7</b>	<b>100,0</b>	<b>2,4</b>	<b>0,2</b>	<b>111 825</b>	<b>120 207</b>	<b>7,5</b>	<b>8 382</b>
-Sawmilling and planing of wood	0,7	87,0	90,3	3,8	0,0	8 298	8 947	7,8	649
-Products of wood	1,3	88,5	88,7	0,2	0,0	15 878	16 644	4,8	766
-Paper and paper products	3,8	110,9	111,9	0,9	0,0	49 459	52 457	6,1	2 998
-Publishing	1,9	87,0	93,2	7,1	0,1	16 050	18 191	13,3	2 141
-Printing, recorded media	2,5	93,0	95,2	2,4	0,1	22 141	23 967	8,2	1 826
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>113,0</b>	<b>118,9</b>	<b>5,2</b>	<b>1,3</b>	<b>318 352</b>	<b>370 822</b>	<b>16,5</b>	<b>52 470</b>
-Coke, petroleum products and nuclear fuel	8,5	88,7	96,4	8,7	0,6	124 093	159 594	28,6	35 501
-Basic chemicals	4,5	131,9	134,4	1,9	0,1	70 819	76 632	8,2	5 813
-Other chemical products	5,3	121,6	127,9	5,2	0,3	68 766	75 293	9,5	6 527
-Rubber products	1,0	96,7	95,2	-1,6	0,0	14 986	15 716	4,9	730
-Plastic products	2,7	146,9	154,4	5,1	0,2	39 687	43 587	9,8	3 900
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,6</b>	<b>96,8</b>	<b>0,2</b>	<b>0,0</b>	<b>44 850</b>	<b>47 460</b>	<b>5,8</b>	<b>2 610</b>
-Glass and glass products	1,0	116,4	121,0	4,0	0,0	7 240	8 181	13,0	941
-Non-metallic mineral products	3,8	91,7	90,7	-1,1	0,0	37 609	39 279	4,4	1 670
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>91,8</b>	<b>91,5</b>	<b>-0,3</b>	<b>-0,1</b>	<b>312 533</b>	<b>325 992</b>	<b>4,3</b>	<b>13 459</b>
-Basic iron and steel products	7,7	78,4	73,8	-5,9	-0,3	99 408	97 350	-2,1	-2 058
-Non-ferrous metal products	3,4	109,2	97,6	-10,6	-0,4	61 809	61 853	0,1	44
-Structural metal products	2,0	89,9	91,4	1,7	0,0	25 698	29 317	14,1	3 619
-Other fabricated metal products	3,8	112,0	120,5	7,6	0,3	50 776	56 464	11,2	5 688
-General purpose machinery	2,4	72,7	77,1	6,1	0,1	28 315	30 800	8,8	2 485
-Special purpose machinery	3,1	95,1	100,5	5,7	0,2	37 225	40 221	8,0	2 996
-Household appliances	0,6	101,4	112,5	10,9	0,1	9 302	9 987	7,4	685
-Electrical machinery	2,5	130,0	127,8	-1,7	-0,1	43 551	44 872	3,0	1 321
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>105,9</b>	<b>111,3</b>	<b>5,1</b>	<b>0,1</b>	<b>14 052</b>	<b>15 276</b>	<b>8,7</b>	<b>1 224</b>
-Radio, television and communication apparatus	0,4	104,2	120,3	15,5	0,1	6 500	7 494	15,3	994
-Professional equipment	0,7	107,0	105,6	-1,3	0,0	7 552	7 782	3,0	230
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>103,1</b>	<b>105,5</b>	<b>2,3</b>	<b>0,3</b>	<b>182 252</b>	<b>183 528</b>	<b>0,7</b>	<b>1 276</b>
-Motor vehicles	4,9	96,5	106,6	10,5	0,5	92 060	93 049	1,1	989
-Bodies for motor vehicles, trailers and semi-trailers	0,5	126,9	133,2	5,0	0,0	8 193	8 591	4,9	398
-Parts and accessories	4,7	104,7	100,0	-4,5	-0,2	64 262	63 866	-0,6	-396
-Other transport equipment	0,9	117,7	113,9	-3,2	0,0	17 737	18 022	1,6	285
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>92,9</b>	<b>93,3</b>	<b>0,4</b>	<b>0,0</b>	<b>61 138</b>	<b>62 187</b>	<b>1,7</b>	<b>1 049</b>
-Furniture	1,3	93,8	103,1	9,9	0,1	12 246	13 937	13,8	1 691
-Other manufacturing groups	3,9	92,6	90,1	-2,7	-0,1	48 892	48 249	-1,3	-643
<b>Total</b>	<b>100,0</b>	<b>103,5</b>	<b>105,6</b>	<b>2,0</b>	<b>2,0</b>	<b>1 407 860</b>	<b>1 521 169</b>	<b>8,0</b>	<b>113 309</b>

1/ The contribution (percentage points) of a major group or division is calculated by multiplying the difference in the index of the major group or division by the weight of the major group or division and then dividing by the previous period total manufacturing index. Figures have been rounded off.

## 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 business sampling frame (BSF), 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 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 BR, 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. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two digit) and major group (three digit) level.
- Collection rate**
- 9 The preliminary collection rate for the survey on manufacturing production and sales for December 2012 was 88,6%. Improved collection rate for November 2012 was 91,7%.
- 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 2 996 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 2 996 enterprises, which was drawn in April 2012 from a population then of 49 455 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 major group and division estimates. These procedures are consistent with international best practice.
- 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 2012, 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 D for the fixed weights which were used for the three periods 1998 to 2000, 2001 to 2004 and 2005 to 2012).

**Seasonal adjustment**

- 17 Seasonally adjusted estimates of all major groups are generated each month, using the X-11 Seasonal Adjustment Program developed by the US Bureau of the Census, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences, which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. Therefore the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.

- Trend cycle** 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 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-off of figures** 23 Where necessary, the figures in the tables have been rounded off to the nearest digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals 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
- |          |   |
|----------|---|
| BR       | Business Register   |
| GDP      | Gross domestic product  |
| ISIC     | International Standard Industrial Classification              |
| LSS      | Large sample survey   |
| m        | Million   |
| SIC      | Standard Industrial Classification of all Economic Activities |
| SARS     | South African Revenue Service                                 |
| Stats SA | Statistics South Africa                                       |
| VAT      | Value added tax   |
| *        | 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.

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

$N_h$  and  $S_h$  are the stratum population size and the stratum variance respectively.

Class limits: Manufacturing (Rand)

Enterprise size	Lower limits	Upper limits
Very small	0	15 000 000
Small	15 000 001	39 000 000
Medium	39 000 001	153 000 000
Large	153 000 001	

## Glossary

<b>Enterprise</b>	The enterprise is a legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.
<b>Index of physical volume of manufacturing production</b>	The index of physical volume of manufacturing production, also known as a production index, is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 2005. 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 D – Weights according to manufacturing divisions and major groups**

<b>Manufacturing divisions and major groups</b>	<b>Weights according to the 1996 Census of Manufacturing 1998 – 2000</b>	<b>Weights according to the 2001 LSS of the manufacturing industry 2001 – 2004</b>	<b>Weights according to the 2005 LSS of the manufacturing industry 2005 – 2012</b>
<b>Food and beverages</b>	<b>15,3</b>	<b>16,4</b>	<b>15,4</b>
-Meat, fish, fruit, etc.	2,8	2,6	1,8
-Dairy products	1,4	1,1	0,8
-Grain mill products	2,1	1,5	0,8
-Other food products	4,4	6,8	5,2
-Beverages	4,6	4,3	6,8
<b>Textiles, clothing, leather and footwear</b>	<b>7,8</b>	<b>5,4</b>	<b>4,9</b>
-Textiles	1,7	1,2	0,7
-Other textile products	1,2	1,2	0,9
-Knitted, crocheted articles	0,6	0,3	0,2
-Wearing apparel	3,0	2,0	2,1
-Tanning, dressing of leather	0,4	0,3	0,6
-Footwear	0,9	0,4	0,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,4</b>	<b>11,0</b>	<b>10,2</b>
-Sawmilling and planing of wood	0,8	0,7	0,7
-Products of wood	1,2	1,0	1,3
-Paper and paper products	5,3	4,8	3,8
-Publishing	1,5	2,4	1,9
-Printing, recorded media	2,6	2,1	2,5
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>19,3</b>	<b>22,5</b>	<b>22,1</b>
-Coke, petroleum products and nuclear fuel	4,2	9,1	8,5
-Basic chemicals	4,5	4,0	4,5
-Other chemical products	6,2	5,4	5,3
-Rubber products	1,4	1,1	1,0
-Plastic products	3,1	3,0	2,7
<b>Glass and non-metallic mineral products</b>	<b>4,5</b>	<b>3,9</b>	<b>4,8</b>
-Glass and glass products	1,0	1,1	1,0
-Non-metallic mineral products	3,5	2,9	3,8
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>23,6</b>	<b>22,4</b>	<b>22,9</b>
-Basic iron and steel products	7,6	5,5	7,7
-Non-ferrous metal products	3,2	4,7	3,4
-Structural metal products	2,4	1,3	2,0
-Other fabricated metal products	4,6	4,2	3,8
-General purpose machinery	2,5	2,4	2,4
-Special purpose machinery	2,9	3,2	3,1
-Household appliances	0,4	1,2	0,6
<b>Electrical machinery</b>	<b>3,4</b>	<b>2,7</b>	<b>2,5</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,5</b>	<b>1,3</b>	<b>1,1</b>
-Radio, television and communication apparatus	1,0	0,7	0,4
-Professional equipment	0,5	0,6	0,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>9,1</b>	<b>8,6</b>	<b>10,9</b>
-Motor vehicles	4,5	4,1	4,9
-Bodies for motor vehicles, trailers and semi-trailers	0,5	0,4	0,5
-Parts and accessories	3,0	3,1	4,7
-Other transport equipment	1,0	1,0	0,9
<b>Other manufacturing divisions</b>	<b>4,1</b>	<b>5,8</b>	<b>5,2</b>
-Furniture	1,6	1,6	1,3
-Other manufacturing groups	2,6	4,2	3,9
<b>Total</b>	<b>100,0</b>	<b>100,0</b>	<b>100,0</b>

## 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](http://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. For more details about our electronic services, contact Stats SA's user information service at (012) 310 8600.

You can visit us on the Internet at: [www.statssa.gov.za](http://www.statssa.gov.za)

### Enquiries

Telephone number:	(012) 310 8249 (technical enquiries) (012) 310 8358 (orders) (012) 310 4883/4885/8018 (library)
Fax number:	(012) 310 8664 (technical enquiries)
Email address:	GerdaB@statssa.gov.za (technical enquiries) <a href="mailto:info@statssa.gov.za">info@statssa.gov.za</a> (user information services) magdaj@statssa.gov.za (orders)
Postal address:	Private Bag X44, Pretoria, 0001

*Produced by Stats SA*