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# Statistical release

## P3041.2

# Manufacturing: Production and sales (Preliminary)

April 2013

**Embargoed until:**  
**11 June 2013**  
**13:00**

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Tel. (012) 310 8600/8390/8351

**Forthcoming issue:**

May 2013

**Expected release date**

11 July 2013

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## Key figures for April 2013

**Table A – Manufacturing production and sales**

Estimates	April 2013	% change between April 2012 and April 2013	% change between February to April 2012 and February to April 2013	% change between January to April 2012 and January to April 2013
Physical volume of manufacturing production index (base: 2005=100)	102,1	7,0	0,5	1,2
Total estimated sales of manufactured products (R million)	129 798	13,1	6,8	7,1

Seasonally adjusted estimates	April 2013	% change between March and April 2013	% change between November 2012 to January 2013 and February to April 2013
Physical volume of manufacturing production index (base: 2005=100)	110,2	8,4	-1,9
Total value of sales of manufactured products (R million)	139 060	7,7	0,7

**Manufacturing production increased by 7,0% in April 2013 compared with April 2012.**

The 7,0% year-on-year increase in manufacturing production in April 2013 was mainly due to higher production in the following divisions:

- motor vehicles, parts and accessories and ‘other’ transport equipment (18,0% and contributing 1,9 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (9,2% and contributing 1,9 percentage points); and
- petroleum, chemical products, rubber and plastic products (7,2% and contributing 1,9 percentage points) (see Table 4b).

**Cautionary note:**

Note that the Easter weekend fell partly in March and partly in April in 2013, whereas in 2012 it fell in April. This may have positively affected the performance of manufacturing in April 2013, which should be taken into account in assessing the increase of 7,0% year-on-year in April 2013. There were 18 working days in April 2012 compared with 21 working days in April 2013. The seasonally adjusted index increased by 8,4% between March and April 2013, but this change should also be treated with caution. Stats SA’s current methodology for the seasonal adjustment of manufacturing does not adjust for shifts in the timing of Easter, so when Easter is spread over the end of March and the beginning of April, it is advisable to consider the two months together. If the “Easter effect” were to be split between March and April 2013, the month-on-month seasonally adjusted outcome for April would reflect a weaker performance than indicated here. Stats SA is working on the rollout of an improved seasonal adjustment methodology (already implemented in retail trade) to all its seasonally adjusted series. For further information on seasonal adjustment, see note 17 on page 15.

**Seasonally adjusted manufacturing production for the three months ended April 2013 decreased by 1,9% compared with the previous three months. Five of the ten manufacturing divisions reported negative growth rates over this period.**

The largest negative contributions to the decrease of 1,9% were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-6,2% and contributing -1,6 percentage points);
- wood and wood products, paper, publishing and printing (-5,3% and contributing -0,5 of a percentage point); and
- furniture and ‘other’ manufacturing (-3,7% and contributing -0,2 of a percentage point) (see Table B).

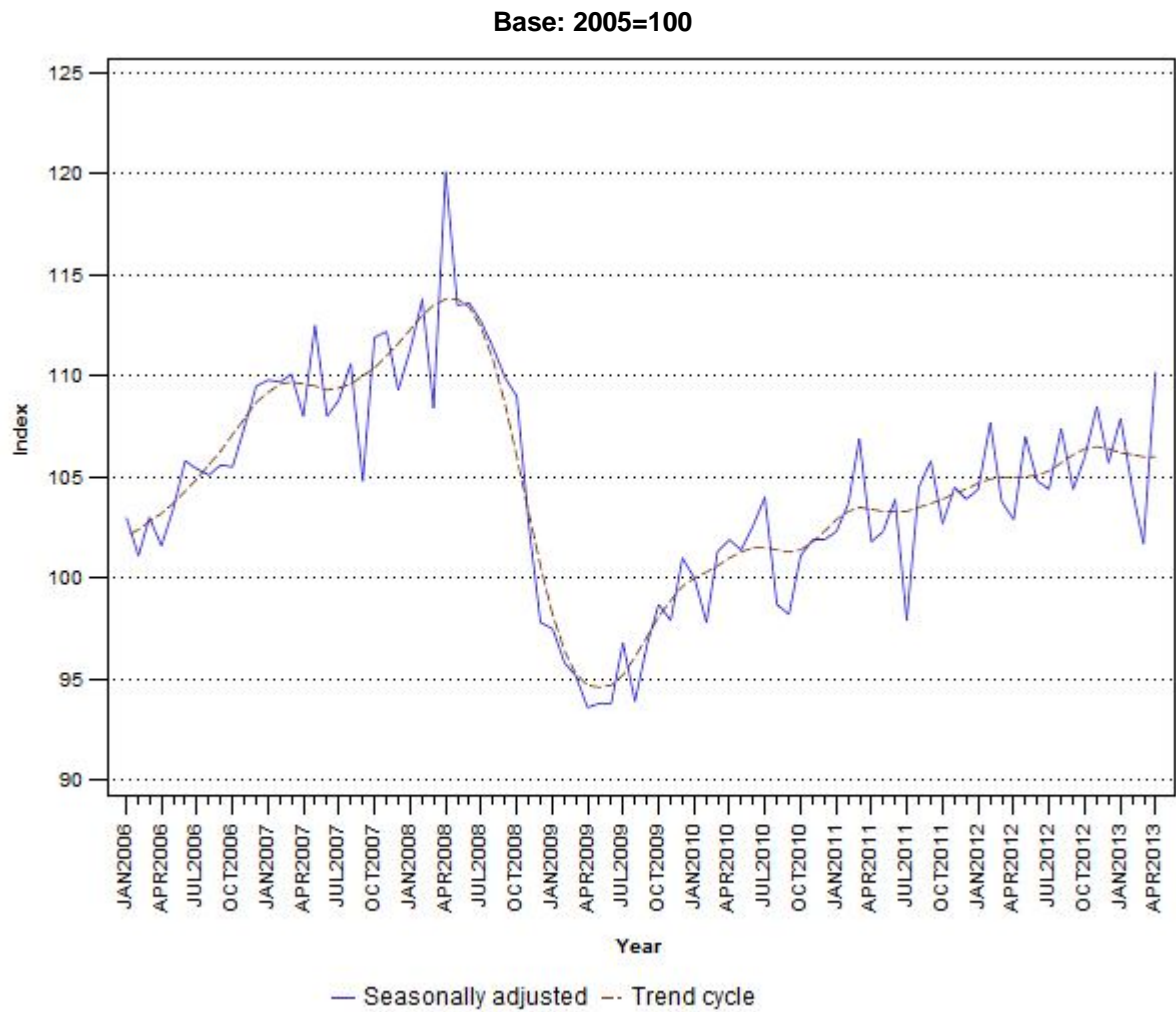
**Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production**

**Base: 2005=100**

Manufacturing divisions and major groups	Weights 2005	Average seasonally adjusted production index for November 2012 to January 2013	Average seasonally adjusted production index for February to April 2013	Quarterly % change of February to April 2013 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>122,8</b>	<b>121,9</b>	<b>-0,7</b>	<b>-0,1</b>
-Meat, fish, fruit, etc.	1,8	116,5	119,6	2,7	0,1
-Dairy products	0,8	119,0	121,0	1,7	0,0
-Grain mill products	0,8	117,8	121,4	3,1	0,0
-Other food products	5,2	113,3	115,3	1,8	0,1
-Beverages	6,8	132,6	127,6	-3,8	-0,3
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>81,1</b>	<b>84,1</b>	<b>3,7</b>	<b>0,1</b>
-Textiles	1,6	63,0	66,6	5,7	0,1
-Wearing apparel	2,3	84,5	87,9	4,0	0,1
-Leather and leather products	0,6	100,6	97,4	-3,2	0,0
-Footwear	0,4	101,6	109,1	7,4	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>101,3</b>	<b>95,9</b>	<b>-5,3</b>	<b>-0,5</b>
-Wood and products of wood	2,0	88,2	86,6	-1,8	0,0
-Paper and paper products	3,8	113,9	109,7	-3,7	-0,1
-Publishing and printing	4,3	96,0	87,8	-8,5	-0,3
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>126,5</b>	<b>118,6</b>	<b>-6,2</b>	<b>-1,6</b>
-Coke, petroleum products and nuclear fuel	8,5	107,5	88,9	-17,3	-1,5
-Basic chemicals	4,5	142,7	139,8	-2,0	-0,1
-Other chemical products	5,3	135,5	133,7	-1,3	-0,1
-Rubber products	1,0	89,4	95,9	7,3	0,1
-Plastic products	2,7	154,6	155,5	0,6	0,0
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,9</b>	<b>97,6</b>	<b>0,7</b>	<b>0,0</b>
-Glass and glass products	1,0	119,0	121,2	1,8	0,0
-Non-metallic mineral products	3,8	91,4	91,7	0,3	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>91,3</b>	<b>90,6</b>	<b>-0,8</b>	<b>-0,1</b>
-Basic iron and steel products	7,7	74,8	66,7	-10,8	-0,6
-Basic precious, non-ferrous metal products	3,4	104,3	110,1	5,6	0,2
-Fabricated metal products	5,7	107,5	107,4	-0,1	0,0
-Machinery and equipment	6,1	89,7	94,0	4,8	0,2
<b>Electrical machinery</b>	<b>2,5</b>	<b>123,4</b>	<b>132,0</b>	<b>7,0</b>	<b>0,2</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>110,7</b>	<b>112,8</b>	<b>1,9</b>	<b>0,0</b>
-Radio, television and communication apparatus	0,4	127,6	126,4	-0,9	0,0
-Professional equipment	0,7	100,0	104,1	4,1	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>107,6</b>	<b>111,0</b>	<b>3,2</b>	<b>0,3</b>
-Motor vehicles	4,9	109,7	120,4	9,8	0,5
-Bodies for motor vehicles, trailers and semi-trailers	0,5	130,9	123,6	-5,6	0,0
-Parts and accessories	4,7	102,5	100,3	-2,1	-0,1
-Other transport equipment	0,9	110,6	109,7	-0,8	0,0
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>88,3</b>	<b>85,0</b>	<b>-3,7</b>	<b>-0,2</b>
-Furniture	1,3	96,6	95,9	-0,7	0,0
-Other manufacturing groups	3,9	85,6	81,4	-4,9	-0,2
<b>Total</b>	<b>100,0</b>	<b>107,4</b>	<b>105,4</b>	<b>-1,9</b>	<b>-1,9</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 – 2013**



**Seasonally adjusted sales of manufactured products (at current prices) for the three months ended April 2013 increased by 0,7% (R2 971 million) compared with the previous three months. 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 basic iron and steel, non-ferrous metal products, metal products and machinery (3,0% or R2 542 million) and motor vehicles, parts and accessories and 'other' transport equipment (5,3% or R2 536 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 November 2012 to January 2013	Seasonally adjusted sales February to April 2013	% change between November 2012 to January 2013 and February to April 2013	Difference in seasonally adjusted sales of manufacturing divisions between November 2012 to January 2013 and February to April 2013
	R'000	R'000	%	R'000
<b>Food and beverages</b>	<b>80 923 314</b>	<b>80 983 263</b>	<b>0,1</b>	<b>59 949</b>
-Food and food products	59 802 483	60 887 035	1,8	1 084 552
-Beverages	21 120 831	20 096 227	-4,9	-1 024 604
<b>Textiles, clothing, leather and footwear</b>	<b>10 185 876</b>	<b>10 511 835</b>	<b>3,2</b>	<b>325 959</b>
-Textiles	3 589 462	3 824 347	6,5	234 885
-Wearing apparel	4 204 410	4 362 500	3,8	158 090
-Leather and leather products	1 463 058	1 372 104	-6,2	-90 954
-Footwear	928 945	952 887	2,6	23 942
<b>Wood and wood products, paper, publishing and printing</b>	<b>30 881 143</b>	<b>30 158 654</b>	<b>-2,3</b>	<b>-722 489</b>
-Wood and products of wood	6 434 367	6 431 066	-0,1	-3 301
-Paper and paper products	13 580 363	13 527 848	-0,4	-52 515
-Publishing and printing	10 866 413	10 199 742	-6,1	-666 671
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>102 654 401</b>	<b>99 134 309</b>	<b>-3,4</b>	<b>-3 520 092</b>
-Coke, petroleum products and nuclear fuel	46 398 255	42 185 607	-9,1	-4 212 648
-Basic chemicals	20 559 446	20 569 294	0,0	9 848
-Other chemical products	20 614 271	20 988 551	1,8	374 280
-Rubber products	3 985 028	4 096 938	2,8	111 910
-Plastic products	11 097 400	11 293 918	1,8	196 518
<b>Glass and non-metallic mineral products</b>	<b>12 133 899</b>	<b>12 771 072</b>	<b>5,3</b>	<b>637 173</b>
-Glass and glass products	2 144 887	2 211 090	3,1	66 203
-Non-metallic mineral products	9 989 012	10 559 980	5,7	570 968
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>83 621 272</b>	<b>86 163 545</b>	<b>3,0</b>	<b>2 542 273</b>
-Basic iron and steel products	25 198 547	25 362 274	0,6	163 727
-Basic precious, non-ferrous metal products	16 982 291	17 093 279	0,7	110 988
-Fabricated metal products	21 419 251	21 885 799	2,2	466 548
-Machinery and equipment	20 021 183	21 822 192	9,0	1 801 009
<b>Electrical machinery</b>	<b>10 852 860</b>	<b>11 689 727</b>	<b>7,7</b>	<b>836 867</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>3 956 880</b>	<b>3 846 379</b>	<b>-2,8</b>	<b>-110 501</b>
-Radio, television and communication apparatus	2 045 717	1 959 306	-4,2	-86 411
-Professional equipment	1 911 162	1 887 072	-1,3	-24 090
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>47 848 726</b>	<b>50 384 982</b>	<b>5,3</b>	<b>2 536 256</b>
-Motor vehicles, trailers, parts and accessories	43 381 178	45 882 509	5,8	2 501 331
-Other transport equipment	4 467 546	4 502 472	0,8	34 926
<b>Furniture and other manufacturing division</b>	<b>15 287 447</b>	<b>15 672 585</b>	<b>2,5</b>	<b>385 138</b>
-Furniture	3 398 073	3 410 149	0,4	12 076
-Other manufacturing groups	11 889 374	12 262 435	3,1	373 061
<b>Total</b>	<b>398 345 816</b>	<b>401 316 350</b>	<b>0,7</b>	<b>2 970 534</b>

**Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2013**



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## Detailed results

**Table 1 – Total index of the physical volume of manufacturing production: 2007 – 2013**

**Base: 2005=100**

Month	2007	2008	2009	2010	2011	2012	2013
Jan	95,0	95,9	83,4	85,9	88,0	90,0	93,2
Feb	104,7	108,5	91,5	93,7	99,7	103,8	1/ 100,9
Mar	113,6	111,9	98,3	104,7	110,4	107,2	1/ 104,8
Apr	101,0	111,9	87,1	94,6	94,7	95,4	1/ 102,1
May	113,4	114,3	94,1	101,9	102,8	107,3	
Jun	109,2	115,1	94,9	103,8	104,9	105,8	
Jul	111,2	115,2	98,9	106,0	99,4	105,9	
Aug	114,4	114,9	96,7	101,7	107,7	110,6	
Sep	108,9	114,2	100,7	102,1	110,5	108,6	
Oct	124,1	121,1	109,1	111,8	113,2	116,3	
Nov	124,3	114,3	108,4	113,7	117,1	121,4	
Dec	96,5	87,8	90,2	90,9	93,1	94,8	
Year	<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: 2007 – 2013**

**2/**

Month	2007	2008	2009	2010	2011	2012	2013
Jan	5,9	0,9	-13,0	3,0	2,4	2,3	3,6
Feb	8,3	3,6	-15,7	2,4	6,4	4,1	-2,8
Mar	7,0	-1,5	-12,2	6,5	5,4	-2,9	-2,2
Apr	5,6	10,8	-22,2	8,6	0,1	0,7	7,0
May	8,7	0,8	-17,7	8,3	0,9	4,4	
Jun	2,3	5,4	-17,5	9,4	1,1	0,9	
Jul	3,5	3,6	-14,1	7,2	-6,2	6,5	
Aug	5,1	0,4	-15,8	5,2	5,9	2,7	
Sep	-0,7	4,9	-11,8	1,4	8,2	-1,7	
Oct	6,1	-2,4	-9,9	2,5	1,3	2,7	
Nov	4,4	-8,0	-5,2	4,9	3,0	3,7	
Dec	-0,1	-9,0	2,7	0,8	2,4	1,8	
Year	<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: 2007 – 2013**

**Base: 2005=100**

Month	2007	2008	2009	2010	2011	2012	2013
Jan	109,8	111,3	97,5	100,0	102,3	104,4	107,9
Feb	109,7	113,8	95,8	97,8	103,7	107,7	104,3
Mar	110,1	108,4	95,2	101,3	106,9	103,8	101,7
Apr	108,0	120,1	93,6	101,9	101,8	102,9	110,2
May	112,5	113,5	93,8	101,4	102,3	107,0	
Jun	108,0	113,6	93,8	102,6	103,9	104,8	
Jul	108,8	112,7	96,8	104,0	97,9	104,4	
Aug	110,6	111,4	93,9	98,7	104,5	107,4	
Sep	104,8	109,9	96,7	98,2	105,8	104,4	
Oct	111,9	109,0	98,7	101,1	102,7	106,0	
Nov	112,2	102,6	97,9	101,9	104,5	108,5	
Dec	109,3	97,8	101,0	101,9	103,9	105,7	



**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		
			April 2012	1/ March 2013	1/ April 2013	April 2012	March 2013	April 2013
<b>Food and beverages</b>	<b>15,4</b>	<b>121,6</b>	<b>107,9</b>	<b>116,7</b>	<b>110,5</b>	<b>121,5</b>	<b>119,6</b>	<b>124,7</b>
-Meat, fish, fruit, etc.	1,8	121,9	115,8	124,3	119,1	121,9	116,2	125,6
-Dairy products	0,8	121,5	111,0	122,1	115,5	118,2	122,4	122,9
-Grain mill products	0,8	116,1	105,2	119,6	118,9	114,8	116,2	129,8
-Other food products	5,2	113,6	109,0	98,1	110,4	119,9	112,8	121,3
-Beverages	6,8	128,3	104,9	127,9	106,6	123,8	125,7	126,6
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>81,7</b>	<b>78,9</b>	<b>84,6</b>	<b>83,5</b>	<b>80,6</b>	<b>80,7</b>	<b>85,5</b>
-Textiles	0,7	58,0	59,8	57,9	61,9	61,5	52,9	63,4
-Other textile products	0,9	70,1	63,0	75,1	71,0	66,9	71,7	75,7
-Knitted, crocheted articles	0,2	74,0	76,7	75,8	74,5	66,4	61,7	64,4
-Wearing apparel	2,1	85,4	84,0	89,1	88,1	84,6	86,2	88,7
-Leather and leather products	0,6	98,3	91,7	99,1	97,7	93,5	94,2	99,9
-Footwear	0,4	104,6	99,5	106,4	104,1	106,7	103,4	111,6
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>99,9</b>	<b>83,7</b>	<b>92,5</b>	<b>86,4</b>	<b>94,2</b>	<b>91,0</b>	<b>97,6</b>
-Sawmilling and planing of wood	0,7	90,2	84,8	87,1	84,0	88,8	82,0	87,8
-Products of wood	1,3	88,5	77,9	85,6	81,4	86,7	83,5	91,0
-Paper and paper products	3,8	111,8	99,8	108,2	102,4	109,7	106,8	112,6
-Publishing	1,9	93,2	74,8	82,8	75,9	83,3	80,9	84,8
-Printing, recorded media	2,5	95,1	68,1	80,6	72,6	83,8	80,5	90,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>119,1</b>	<b>110,6</b>	<b>120,6</b>	<b>118,6</b>	<b>114,4</b>	<b>117,3</b>	<b>122,7</b>
-Coke, petroleum products and nuclear fuel	8,5	96,7	94,6	93,9	98,0	92,2	93,2	95,3
-Basic chemicals	4,5	134,6	126,5	136,7	134,3	132,4	140,4	140,5
-Other chemical products	5,3	128,2	110,8	137,7	127,1	118,9	126,7	136,7
-Rubber products	1,0	95,0	86,1	96,4	98,4	92,9	85,0	106,6
-Plastic products	2,7	154,5	143,1	152,3	147,3	152,8	147,8	157,5
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,8</b>	<b>90,6</b>	<b>93,4</b>	<b>95,7</b>	<b>97,8</b>	<b>92,4</b>	<b>103,7</b>
-Glass and glass products	1,0	121,0	104,8	108,6	113,4	116,8	121,4	126,1
-Non-metallic mineral products	3,8	90,7	87,0	89,6	91,3	93,1	85,1	98,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>91,4</b>	<b>84,6</b>	<b>91,8</b>	<b>92,4</b>	<b>88,7</b>	<b>85,6</b>	<b>96,9</b>
-Basic iron and steel products	7,7	73,8	72,1	64,5	80,1	69,2	59,8	76,6
-Non-ferrous metal products	3,4	97,6	89,4	114,1	108,4	92,7	110,5	112,5
-Structural metal products	2,0	90,9	88,0	78,8	75,6	94,4	75,4	81,6
-Other fabricated metal products	3,8	120,3	107,5	122,8	115,6	115,6	117,4	124,9
-General purpose machinery	2,4	76,9	67,4	72,7	73,9	75,7	70,9	83,4
-Special purpose machinery	3,1	100,5	90,9	115,9	98,9	102,1	96,7	111,3
-Household appliances	0,6	112,5	100,1	115,7	109,7	110,1	109,2	120,7
<b>Electrical machinery</b>	<b>2,5</b>	<b>127,9</b>	<b>114,6</b>	<b>146,9</b>	<b>129,4</b>	<b>122,0</b>	<b>130,1</b>	<b>138,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>111,1</b>	<b>96,2</b>	<b>110,5</b>	<b>107,0</b>	<b>106,4</b>	<b>112,3</b>	<b>119,5</b>
-Radio, television and communication apparatus	0,4	120,6	88,0	110,7	115,6	106,2	118,6	141,0
-Professional equipment	0,7	105,1	101,4	110,3	101,5	106,5	108,3	105,8
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>105,5</b>	<b>93,7</b>	<b>108,9</b>	<b>110,6</b>	<b>104,0</b>	<b>103,2</b>	<b>123,0</b>
-Motor vehicles	4,9	106,3	91,6	116,7	122,8	106,6	108,8	141,9
-Bodies for motor vehicles, trailers and semi-trailers	0,5	133,4	130,9	124,1	131,8	131,0	117,8	131,6
-Parts and accessories	4,7	100,0	90,9	97,8	99,7	95,8	95,0	105,4
-Other transport equipment	0,9	114,2	100,3	116,5	91,8	118,5	107,9	108,2
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>93,0</b>	<b>77,6</b>	<b>83,7</b>	<b>72,5</b>	<b>91,4</b>	<b>82,8</b>	<b>84,0</b>
-Furniture	1,3	103,0	89,5	85,8	87,2	99,7	94,9	97,3
-Other manufacturing groups	3,9	89,7	73,6	83,0	67,6	88,6	78,8	79,5
<b>Total</b>	<b>100,0</b>	<b>105,6</b>	<b>95,4</b>	<b>104,8</b>	<b>102,1</b>	<b>102,9</b>	<b>101,7</b>	<b>110,2</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		
			April 2012	1/ April 2013	% change between April 2012 and April 2013	March 2013	April 2013	% change between March and April 2013
<b>Food and beverages</b>	<b>15,4</b>	<b>121,6</b>	<b>107,9</b>	<b>110,5</b>	<b>2,4</b>	<b>119,6</b>	<b>124,7</b>	<b>4,3</b>
-Meat, fish, fruit, etc.	1,8	121,9	115,8	119,1	2,8	116,2	125,6	8,1
-Dairy products	0,8	121,5	111,0	115,5	4,1	122,4	122,9	0,4
-Grain mill products	0,8	116,1	105,2	118,9	13,0	116,2	129,8	11,7
-Other food products	5,2	113,6	109,0	110,4	1,3	112,8	121,3	7,5
-Beverages	6,8	128,3	104,9	106,6	1,6	125,7	126,6	0,7
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>81,7</b>	<b>78,9</b>	<b>83,5</b>	<b>5,8</b>	<b>80,7</b>	<b>85,5</b>	<b>5,9</b>
-Textiles	0,7	58,0	59,8	61,9	3,5	52,9	63,4	19,8
-Other textile products	0,9	70,1	63,0	71,0	12,7	71,7	75,7	5,6
-Knitted, crocheted articles	0,2	74,0	76,7	74,5	-2,9	61,7	64,4	4,4
-Wearing apparel	2,1	85,4	84,0	88,1	4,9	86,2	88,7	2,9
-Leather and leather products	0,6	98,3	91,7	97,7	6,5	94,2	99,9	6,1
-Footwear	0,4	104,6	99,5	104,1	4,6	103,4	111,6	7,9
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>99,9</b>	<b>83,7</b>	<b>86,4</b>	<b>3,2</b>	<b>91,0</b>	<b>97,6</b>	<b>7,3</b>
-Sawmilling and planing of wood	0,7	90,2	84,8	84,0	-0,9	82,0	87,8	7,1
-Products of wood	1,3	88,5	77,9	81,4	4,5	83,5	91,0	9,0
-Paper and paper products	3,8	111,8	99,8	102,4	2,6	106,8	112,6	5,4
-Publishing	1,9	93,2	74,8	75,9	1,5	80,9	84,8	4,8
-Printing, recorded media	2,5	95,1	68,1	72,6	6,6	80,5	90,1	11,9
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>119,1</b>	<b>110,6</b>	<b>118,6</b>	<b>7,2</b>	<b>117,3</b>	<b>122,7</b>	<b>4,6</b>
-Coke, petroleum products and nuclear fuel	8,5	96,7	94,6	98,0	3,6	93,2	95,3	2,3
-Basic chemicals	4,5	134,6	126,5	134,3	6,2	140,4	140,5	0,1
-Other chemical products	5,3	128,2	110,8	127,1	14,7	126,7	136,7	7,9
-Rubber products	1,0	95,0	86,1	98,4	14,3	85,0	106,6	25,4
-Plastic products	2,7	154,5	143,1	147,3	2,9	147,8	157,5	6,6
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,8</b>	<b>90,6</b>	<b>95,7</b>	<b>5,6</b>	<b>92,4</b>	<b>103,7</b>	<b>12,2</b>
-Glass and glass products	1,0	121,0	104,8	113,4	8,2	121,4	126,1	3,9
-Non-metallic mineral products	3,8	90,7	87,0	91,3	4,9	85,1	98,1	15,3
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>91,4</b>	<b>84,6</b>	<b>92,4</b>	<b>9,2</b>	<b>85,6</b>	<b>96,9</b>	<b>13,2</b>
-Basic iron and steel products	7,7	73,8	72,1	80,1	11,1	59,8	76,6	28,1
-Non-ferrous metal products	3,4	97,6	89,4	108,4	21,3	110,5	112,5	1,8
-Structural metal products	2,0	90,9	88,0	75,6	-14,1	75,4	81,6	8,2
-Other fabricated metal products	3,8	120,3	107,5	115,6	7,5	117,4	124,9	6,4
-General purpose machinery	2,4	76,9	67,4	73,9	9,6	70,9	83,4	17,6
-Special purpose machinery	3,1	100,5	90,9	98,9	8,8	96,7	111,3	15,1
-Household appliances	0,6	112,5	100,1	109,7	9,6	109,2	120,7	10,5
<b>Electrical machinery</b>	<b>2,5</b>	<b>127,9</b>	<b>114,6</b>	<b>129,4</b>	<b>12,9</b>	<b>130,1</b>	<b>138,1</b>	<b>6,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>111,1</b>	<b>96,2</b>	<b>107,0</b>	<b>11,2</b>	<b>112,3</b>	<b>119,5</b>	<b>6,4</b>
-Radio, television and communication apparatus	0,4	120,6	88,0	115,6	31,4	118,6	141,0	18,9
-Professional equipment	0,7	105,1	101,4	101,5	0,1	108,3	105,8	-2,3
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>105,5</b>	<b>93,7</b>	<b>110,6</b>	<b>18,0</b>	<b>103,2</b>	<b>123,0</b>	<b>19,2</b>
-Motor vehicles	4,9	106,3	91,6	122,8	34,1	108,8	141,9	30,4
-Bodies for motor vehicles, trailers and semi-trailers	0,5	133,4	130,9	131,8	0,7	117,8	131,6	11,7
-Parts and accessories	4,7	100,0	90,9	99,7	9,7	95,0	105,4	10,9
-Other transport equipment	0,9	114,2	100,3	91,8	-8,5	107,9	108,2	0,3
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>93,0</b>	<b>77,6</b>	<b>72,5</b>	<b>-6,6</b>	<b>82,8</b>	<b>84,0</b>	<b>1,4</b>
-Furniture	1,3	103,0	89,5	87,2	-2,6	94,9	97,3	2,5
-Other manufacturing groups	3,9	89,7	73,6	67,6	-8,2	78,8	79,5	0,9
<b>Total</b>	<b>100,0</b>	<b>105,6</b>	<b>95,4</b>	<b>102,1</b>	<b>7,0</b>	<b>101,7</b>	<b>110,2</b>	<b>8,4</b>

1/ Preliminary.

**Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2007 – 2013**

Month	2007	2008	2009	2010	2011	2012	2013
Jan	82 751 979	92 718 406	87 095 583	88 149 838	94 246 838	104 935 789	113 831 610
Feb	94 752 037	109 968 010	98 910 325	99 414 819	108 823 746	122 863 314	1/ 128 312 844
Mar	101 801 537	116 559 343	106 853 461	112 150 984	123 042 345	130 042 791	1/ 134 424 295
Apr	92 055 334	118 743 978	91 481 056	99 179 387	105 427 353	114 751 285	1/ 129 798 149
May	103 294 995	122 009 401	97 891 568	106 725 647	114 987 796	127 234 354	
Jun	100 363 915	126 717 920	99 620 665	110 984 952	119 312 466	127 603 367	
Jul	101 001 703	130 306 185	101 194 755	110 310 285	110 290 349	124 597 549	
Aug	106 756 672	128 075 397	102 171 776	107 873 773	121 774 032	130 989 591	
Sep	102 072 116	127 557 225	106 385 385	110 151 480	129 822 841	128 466 040	
Oct	115 324 079	133 838 287	111 499 001	118 674 521	130 325 799	140 601 491	
Nov	117 861 959	124 514 657	113 598 170	123 230 894	135 588 107	149 196 393	
Dec	93 460 862	97 565 655	96 538 722	101 389 781	114 218 802	120 093 122	
Year	<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>1 521 375 086</b>	

1/ Preliminary.

**Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2007 – 2013** 2/

Month	2007	2008	2009	2010	2011	2012	2013
Jan	20,8	12,0	-6,1	1,2	6,9	11,3	8,5
Feb	24,3	16,1	-10,1	0,5	9,5	12,9	4,4
Mar	20,3	14,5	-8,3	5,0	9,7	5,7	3,4
Apr	21,3	29,0	-23,0	8,4	6,3	8,8	13,1
May	21,1	18,1	-19,8	9,0	7,7	10,7	
Jun	12,5	26,3	-21,4	11,4	7,5	6,9	
Jul	11,8	29,0	-22,3	9,0	0,0	13,0	
Aug	13,4	20,0	-20,2	5,6	12,9	7,6	
Sep	6,0	25,0	-16,6	3,5	17,9	-1,0	
Oct	13,4	16,1	-16,7	6,4	9,8	7,9	
Nov	12,0	5,6	-8,8	8,5	10,0	10,0	
Dec	11,3	4,4	-1,1	5,0	12,7	5,1	
Year	<b>15,2</b>	<b>17,9</b>	<b>-15,1</b>	<b>6,2</b>	<b>9,3</b>	<b>8,1</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): 2007 – 2013**

Month	2007	2008	2009	2010	2011	2012	2013
Jan	98 464 354	110 173 115	104 049 918	104 949 535	111 628 098	123 330 680	133 858 540
Feb	99 130 719	115 340 591	103 380 012	103 461 896	113 050 504	127 745 090	133 153 961
Mar	98 742 080	112 816 193	103 000 704	107 534 772	117 947 380	124 849 710	129 102 105
Apr	98 581 145	127 305 638	98 317 853	106 705 572	113 002 000	122 884 821	139 060 284
May	102 839 141	121 330 226	98 198 679	106 906 517	115 054 670	127 560 541	
Jun	98 366 660	123 580 143	97 630 372	108 602 040	116 762 771	124 894 634	
Jul	98 956 978	127 306 227	99 723 259	109 134 093	109 627 939	124 170 740	
Aug	103 313 630	123 845 800	99 504 425	105 593 440	119 396 881	128 504 217	
Sep	96 849 756	121 102 122	101 202 799	104 763 968	123 732 583	122 733 095	
Oct	104 763 718	121 710 006	101 761 350	108 690 019	119 985 859	129 923 629	
Nov	106 127 087	112 015 766	102 009 429	110 113 825	121 075 975	133 567 713	
Dec	104 895 511	108 096 571	106 155 075	111 275 241	125 243 722	130 919 563	

**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		
		April 2012	1/ March 2013	1/ April 2013	April 2012	March 2013	April 2013
<b>Food and beverages</b>	<b>310 753 020</b>	<b>23 098 521</b>	<b>26 269 427</b>	<b>25 808 685</b>	<b>24 993 663</b>	<b>26 481 749</b>	<b>27 924 079</b>
-Meat, fish, fruit, etc.	80 244 635	6 126 438	7 062 405	6 876 463	6 542 386	6 802 551	7 355 080
-Dairy products	27 286 839	2 089 616	2 498 439	2 390 897	2 212 854	2 427 568	2 532 914
-Grain mill products	54 399 835	4 099 663	4 847 378	4 771 613	4 461 219	4 784 491	5 196 263
-Other food products	70 581 062	5 413 732	5 260 456	6 172 502	5 583 378	5 763 094	6 336 526
-Beverages	78 240 649	5 369 072	6 600 749	5 597 210	6 193 826	6 704 045	6 503 295
<b>Textiles, clothing, leather and footwear</b>	<b>39 829 374</b>	<b>3 144 086</b>	<b>3 561 106</b>	<b>3 574 080</b>	<b>3 224 812</b>	<b>3 387 790</b>	<b>3 662 670</b>
-Textiles	4 467 256	349 616	418 340	418 641	355 472	374 276	425 795
-Other textile products	10 005 194	781 140	919 052	882 666	809 312	877 788	912 521
-Knitted, crocheted articles	1 720 830	138 163	152 169	161 792	128 966	128 501	151 485
-Wearing apparel	14 738 223	1 198 062	1 322 666	1 328 685	1 211 973	1 299 099	1 340 515
-Leather and leather products	5 345 948	405 325	446 395	478 032	425 651	408 598	504 373
-Footwear	3 551 923	271 780	302 484	304 264	293 436	299 529	327 982
<b>Wood and wood products, paper, publishing and printing</b>	<b>120 098 223</b>	<b>8 324 917</b>	<b>9 858 032</b>	<b>9 151 041</b>	<b>9 412 588</b>	<b>9 609 447</b>	<b>10 371 909</b>
-Sawmilling and planing of wood	8 934 002	680 278	753 196	715 502	726 448	716 868	762 668
-Products of wood	16 623 711	1 231 237	1 376 903	1 323 429	1 348 346	1 347 800	1 453 503
-Paper and paper products	52 397 430	3 789 232	4 547 004	4 177 904	4 287 355	4 380 055	4 729 196
-Publishing	18 207 329	1 189 095	1 418 263	1 317 535	1 305 167	1 398 020	1 446 519
-Printing, recorded media	23 935 751	1 435 075	1 762 666	1 616 671	1 745 272	1 766 705	1 980 023
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>371 139 667</b>	<b>28 550 288</b>	<b>32 643 522</b>	<b>32 864 914</b>	<b>29 462 944</b>	<b>31 893 298</b>	<b>33 818 719</b>
-Coke, petroleum products and nuclear fuel	159 593 866	12 854 486	13 800 596	14 421 413	12 551 302	13 636 595	13 958 906
-Basic chemicals	76 583 427	5 895 846	6 571 357	6 885 702	6 348 636	6 523 642	7 392 426
-Other chemical products	75 688 106	5 360 869	7 215 207	6 573 709	5 745 406	6 968 520	7 044 923
-Rubber products	15 688 483	1 148 121	1 387 553	1 416 984	1 266 708	1 189 167	1 568 462
-Plastic products	43 585 785	3 290 966	3 668 809	3 567 106	3 550 893	3 575 374	3 854 003
<b>Glass and non-metallic mineral products</b>	<b>47 460 718</b>	<b>3 415 314</b>	<b>4 199 925</b>	<b>4 106 842</b>	<b>3 838 800</b>	<b>4 086 768</b>	<b>4 626 794</b>
-Glass and glass products	8 181 045	554 818	648 680	667 212	655 353	742 321	789 746
-Non-metallic mineral products	39 279 673	2 860 496	3 551 245	3 439 630	3 183 447	3 344 446	3 837 048
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>325 860 391</b>	<b>25 132 252</b>	<b>29 910 764</b>	<b>28 379 253</b>	<b>26 558 168</b>	<b>27 488 444</b>	<b>30 054 386</b>
-Basic iron and steel products	97 345 301	7 970 044	8 843 040	8 440 216	8 052 079	8 219 298	8 503 437
-Non-ferrous metal products	61 964 728	4 727 672	6 030 607	5 844 800	4 741 044	5 719 676	5 891 327
-Structural metal products	29 182 727	2 287 362	2 296 539	2 121 502	2 476 301	2 085 399	2 305 569
-Other fabricated metal products	56 428 755	4 145 592	4 938 340	4 970 717	4 575 300	4 606 058	5 503 746
-General purpose machinery	30 729 277	2 320 362	2 596 073	2 572 990	2 587 912	2 557 377	2 874 855
-Special purpose machinery	40 218 784	2 927 663	4 291 663	3 552 013	3 306 212	3 468 000	4 021 332
-Household appliances	9 990 819	753 557	914 502	877 015	819 320	832 635	954 120
<b>Electrical machinery</b>	<b>44 835 132</b>	<b>3 447 573</b>	<b>4 327 573</b>	<b>3 705 220</b>	<b>3 706 879</b>	<b>3 822 675</b>	<b>3 992 609</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>15 243 304</b>	<b>1 092 881</b>	<b>1 249 329</b>	<b>1 223 035</b>	<b>1 204 206</b>	<b>1 269 468</b>	<b>1 347 697</b>
-Radio, television and communication apparatus	7 500 083	508 611	582 869	598 928	573 537	628 070	675 682
-Professional equipment	7 743 221	584 270	666 460	624 107	630 670	641 397	672 015
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>183 642 534</b>	<b>13 558 664</b>	<b>17 242 094</b>	<b>16 069 560</b>	<b>15 241 174</b>	<b>15 733 241</b>	<b>18 097 933</b>
-Motor vehicles	93 050 573	6 596 521	9 377 909	8 550 054	7 602 112	8 393 589	9 848 142
-Bodies for motor vehicles, trailers and semi-trailers	8 600 730	676 986	663 602	775 983	720 384	653 998	830 529
-Parts and accessories	63 923 511	4 949 316	5 604 424	5 480 710	5 356 254	5 186 969	5 948 146
-Other transport equipment	18 067 720	1 335 841	1 596 159	1 262 813	1 562 424	1 498 684	1 471 115
<b>Furniture and other manufacturing division</b>	<b>62 512 723</b>	<b>4 986 789</b>	<b>5 162 523</b>	<b>4 915 519</b>	<b>5 241 586</b>	<b>5 329 226</b>	<b>5 163 487</b>
-Furniture	13 926 915	1 028 090	997 044	1 047 085	1 142 384	1 096 813	1 164 530
-Other manufacturing groups	48 585 808	3 958 699	4 165 479	3 868 434	4 099 203	4 232 412	3 998 957
<b>Total</b>	<b>1 521 375 086</b>	<b>114 751 285</b>	<b>134 424 295</b>	<b>129 798 149</b>	<b>122 884 821</b>	<b>129 102 105</b>	<b>139 060 284</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		
		April 2012	1/ April 2013	% change between April 2012 and April 2013	March 2013	April 2013	% change between March and April 2013
<b>Food and beverages</b>	<b>310 753 020</b>	<b>23 098 521</b>	<b>25 808 685</b>	<b>11,7</b>	<b>26 481 749</b>	<b>27 924 079</b>	<b>5,4</b>
-Meat, fish, fruit, etc.	80 244 635	6 126 438	6 876 463	12,2	6 802 551	7 355 080	8,1
-Dairy products	27 286 839	2 089 616	2 390 897	14,4	2 427 568	2 532 914	4,3
-Grain mill products	54 399 835	4 099 663	4 771 613	16,4	4 784 491	5 196 263	8,6
-Other food products	70 581 062	5 413 732	6 172 502	14,0	5 763 094	6 336 526	10,0
-Beverages	78 240 649	5 369 072	5 597 210	4,2	6 704 045	6 503 295	-3,0
<b>Textiles, clothing, leather and footwear</b>	<b>39 829 374</b>	<b>3 144 086</b>	<b>3 574 080</b>	<b>13,7</b>	<b>3 387 790</b>	<b>3 662 670</b>	<b>8,1</b>
-Textiles	4 467 256	349 616	418 641	19,7	374 276	425 795	13,8
-Other textile products	10 005 194	781 140	882 666	13,0	877 788	912 521	4,0
-Knitted, crocheted articles	1 720 830	138 163	161 792	17,1	128 501	151 485	17,9
-Wearing apparel	14 738 223	1 198 062	1 328 685	10,9	1 299 099	1 340 515	3,2
-Leather and leather products	5 345 948	405 325	478 032	17,9	408 598	504 373	23,4
-Footwear	3 551 923	271 780	304 264	12,0	299 529	327 982	9,5
<b>Wood and wood products, paper, publishing and printing</b>	<b>120 098 223</b>	<b>8 324 917</b>	<b>9 151 041</b>	<b>9,9</b>	<b>9 609 447</b>	<b>10 371 909</b>	<b>7,9</b>
-Sawmilling and planing of wood	8 934 002	680 278	715 502	5,2	716 868	762 668	6,4
-Products of wood	16 623 711	1 231 237	1 323 429	7,5	1 347 800	1 453 503	7,8
-Paper and paper products	52 397 430	3 789 232	4 177 904	10,3	4 380 055	4 729 196	8,0
-Publishing	18 207 329	1 189 095	1 317 535	10,8	1 398 020	1 446 519	3,5
-Printing, recorded media	23 935 751	1 435 075	1 616 671	12,7	1 766 705	1 980 023	12,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>371 139 667</b>	<b>28 550 288</b>	<b>32 864 914</b>	<b>15,1</b>	<b>31 893 298</b>	<b>33 818 719</b>	<b>6,0</b>
-Coke, petroleum products and nuclear fuel	159 593 866	12 854 486	14 421 413	12,2	13 636 595	13 958 906	2,4
-Basic chemicals	76 583 427	5 895 846	6 885 702	16,8	6 523 642	7 392 426	13,3
-Other chemical products	75 688 106	5 360 869	6 573 709	22,6	6 968 520	7 044 923	1,1
-Rubber products	15 688 483	1 148 121	1 416 984	23,4	1 189 167	1 568 462	31,9
-Plastic products	43 585 785	3 290 966	3 567 106	8,4	3 575 374	3 854 003	7,8
<b>Glass and non-metallic mineral products</b>	<b>47 460 718</b>	<b>3 415 314</b>	<b>4 106 842</b>	<b>20,2</b>	<b>4 086 768</b>	<b>4 626 794</b>	<b>13,2</b>
-Glass and glass products	8 181 045	554 818	667 212	20,3	742 321	789 746	6,4
-Non-metallic mineral products	39 279 673	2 860 496	3 439 630	20,2	3 344 446	3 837 048	14,7
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>325 860 391</b>	<b>25 132 252</b>	<b>28 379 253</b>	<b>12,9</b>	<b>27 488 444</b>	<b>30 054 386</b>	<b>9,3</b>
-Basic iron and steel products	97 345 301	7 970 044	8 440 216	5,9	8 219 298	8 503 437	3,5
-Non-ferrous metal products	61 964 728	4 727 672	5 844 800	23,6	5 719 676	5 891 327	3,0
-Structural metal products	29 182 727	2 287 362	2 121 502	-7,3	2 085 399	2 305 569	10,6
-Other fabricated metal products	56 428 755	4 145 592	4 970 717	19,9	4 606 058	5 503 746	19,5
-General purpose machinery	30 729 277	2 320 362	2 572 990	10,9	2 557 377	2 874 855	12,4
-Special purpose machinery	40 218 784	2 927 663	3 552 013	21,3	3 468 000	4 021 332	16,0
-Household appliances	9 990 819	753 557	877 015	16,4	832 635	954 120	14,6
<b>Electrical machinery</b>	<b>44 835 132</b>	<b>3 447 573</b>	<b>3 705 220</b>	<b>7,5</b>	<b>3 822 675</b>	<b>3 992 609</b>	<b>4,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>15 243 304</b>	<b>1 092 881</b>	<b>1 223 035</b>	<b>11,9</b>	<b>1 269 468</b>	<b>1 347 697</b>	<b>6,2</b>
-Radio, television and communication apparatus	7 500 083	508 611	598 928	17,8	628 070	675 682	7,6
-Professional equipment	7 743 221	584 270	624 107	6,8	641 397	672 015	4,8
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>183 642 534</b>	<b>13 558 664</b>	<b>16 069 560</b>	<b>18,5</b>	<b>15 733 241</b>	<b>18 097 933</b>	<b>15,0</b>
-Motor vehicles	93 050 573	6 596 521	8 550 054	29,6	8 393 589	9 848 142	17,3
-Bodies for motor vehicles, trailers and semi-trailers	8 600 730	676 986	775 983	14,6	653 998	830 529	27,0
-Parts and accessories	63 923 511	4 949 316	5 480 710	10,7	5 186 969	5 948 146	14,7
-Other transport equipment	18 067 720	1 335 841	1 262 813	-5,5	1 498 684	1 471 115	-1,8
<b>Furniture and other manufacturing division</b>	<b>62 512 723</b>	<b>4 986 789</b>	<b>4 915 519</b>	<b>-1,4</b>	<b>5 329 226</b>	<b>5 163 487</b>	<b>-3,1</b>
-Furniture	13 926 915	1 028 090	1 047 085	1,8	1 096 813	1 164 530	6,2
-Other manufacturing groups	48 585 808	3 958 699	3 868 434	-2,3	4 232 412	3 998 957	-5,5
<b>Total</b>	<b>1 521 375 086</b>	<b>114 751 285</b>	<b>129 798 149</b>	<b>13,1</b>	<b>129 102 105</b>	<b>139 060 284</b>	<b>7,7</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)		
		Feb. to Apr. 2012	Feb. to Apr. 2013	% change between Feb. to Apr. 2012 and Feb. to Apr. 2013	Feb. to Apr. 2012	Feb. to Apr. 2013	% change between Feb. to Apr. 2012 and Feb. to Apr. 2013
<b>Food and beverages</b>	<b>15,4</b>	<b>112,6</b>	<b>112,9</b>	<b>0,3</b>	<b>71 661 325</b>	<b>77 082 767</b>	<b>7,6</b>
-Meat, fish, fruit, etc.	1,8	119,7	117,4	-1,9	18 639 852	20 017 296	7,4
-Dairy products	0,8	117,0	116,3	-0,6	6 524 714	7 112 345	9,0
-Grain mill products	0,8	106,6	115,2	8,1	12 433 595	13 959 674	12,3
-Other food products	5,2	100,4	99,3	-1,1	16 176 342	16 756 993	3,6
-Beverages	6,8	120,2	121,3	0,9	17 886 822	19 236 459	7,5
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>83,0</b>	<b>84,8</b>	<b>2,2</b>	<b>9 885 386</b>	<b>10 563 793</b>	<b>6,9</b>
-Textiles	0,7	64,3	62,1	-3,4	1 197 237	1 250 446	4,4
-Other textile products	0,9	70,3	73,4	4,4	2 514 772	2 672 358	6,3
-Knitted, crocheted articles	0,2	87,7	77,0	-12,2	503 069	463 907	-7,8
-Wearing apparel	2,1	83,6	88,6	6,0	3 506 797	3 885 183	10,8
-Leather and leather products	0,6	101,6	101,0	-0,6	1 325 631	1 398 236	5,5
-Footwear	0,4	107,8	105,1	-2,5	837 880	893 663	6,7
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>93,5</b>	<b>91,9</b>	<b>-1,7</b>	<b>27 949 577</b>	<b>28 903 691</b>	<b>3,4</b>
-Sawmilling and planing of wood	0,7	90,1	85,3	-5,3	2 192 849	2 201 257	0,4
-Products of wood	1,3	83,9	83,4	-0,6	3 942 178	4 038 784	2,5
-Paper and paper products	3,8	106,8	104,8	-1,9	12 393 052	12 878 972	3,9
-Publishing	1,9	81,9	80,4	-1,8	3 943 321	4 105 006	4,1
-Printing, recorded media	2,5	87,5	86,7	-0,9	5 478 177	5 679 672	3,7
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>113,2</b>	<b>116,5</b>	<b>2,9</b>	<b>88 235 756</b>	<b>96 084 852</b>	<b>8,9</b>
-Coke, petroleum products and nuclear fuel	8,5	91,4	87,4	-4,4	38 817 501	40 899 976	5,4
-Basic chemicals	4,5	127,7	133,8	4,8	17 715 052	19 539 092	10,3
-Other chemical products	5,3	119,9	133,4	11,3	17 298 891	20 502 579	18,5
-Rubber products	1,0	101,3	99,8	-1,5	4 115 695	4 210 299	2,3
-Plastic products	2,7	149,2	151,7	1,7	10 288 617	10 932 906	6,3
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>93,1</b>	<b>92,3</b>	<b>-0,9</b>	<b>11 226 892</b>	<b>12 191 376</b>	<b>8,6</b>
-Glass and glass products	1,0	107,8	110,8	2,8	1 743 169	1 966 586	12,8
-Non-metallic mineral products	3,8	89,4	87,7	-1,9	9 483 723	10 224 790	7,8
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>93,4</b>	<b>90,6</b>	<b>-3,0</b>	<b>82 399 028</b>	<b>86 293 568</b>	<b>4,7</b>
-Basic iron and steel products	7,7	78,0	68,7	-11,9	26 013 336	26 172 459	0,6
-Non-ferrous metal products	3,4	96,7	108,2	11,9	14 918 095	16 827 534	12,8
-Structural metal products	2,0	98,9	81,8	-17,3	7 543 099	7 014 791	-7,0
-Other fabricated metal products	3,8	119,1	120,5	1,2	13 815 228	14 682 816	6,3
-General purpose machinery	2,4	74,3	72,7	-2,2	7 372 832	7 558 488	2,5
-Special purpose machinery	3,1	104,7	104,1	-0,6	10 191 786	11 359 605	11,5
-Household appliances	0,6	110,6	113,1	2,3	2 544 652	2 677 875	5,2
<b>Electrical machinery</b>	<b>2,5</b>	<b>129,3</b>	<b>135,0</b>	<b>4,4</b>	<b>11 623 690</b>	<b>12 003 747</b>	<b>3,3</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>105,3</b>	<b>109,7</b>	<b>4,2</b>	<b>3 594 242</b>	<b>3 759 602</b>	<b>4,6</b>
-Radio, television and communication apparatus	0,4	106,3	120,8	13,6	1 701 412	1 898 922	11,6
-Professional equipment	0,7	104,6	102,6	-1,9	1 892 830	1 860 680	-1,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>103,0</b>	<b>109,1</b>	<b>5,9</b>	<b>45 514 762</b>	<b>50 217 484</b>	<b>10,3</b>
-Motor vehicles	4,9	101,9	117,7	15,5	22 965 395	27 168 442	18,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	136,6	125,9	-7,8	2 136 013	2 157 675	1,0
-Parts and accessories	4,7	100,7	99,5	-1,2	16 314 968	16 606 950	1,8
-Other transport equipment	0,9	103,9	104,4	0,5	4 098 386	4 284 417	4,5
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>89,3</b>	<b>83,0</b>	<b>-7,1</b>	<b>15 566 732</b>	<b>15 434 408</b>	<b>-0,9</b>
-Furniture	1,3	92,0	88,5	-3,8	3 073 523	3 123 575	1,6
-Other manufacturing groups	3,9	88,3	81,1	-8,2	12 493 209	12 310 833	-1,5
<b>Total</b>	<b>100,0</b>	<b>102,1</b>	<b>102,6</b>	<b>0,5</b>	<b>367 657 390</b>	<b>392 535 288</b>	<b>6,8</b>

## 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 April 2013 was 89,9%. Improved collection rate for March 2013 was 92,7%.
- 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 2013, 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 2013).

**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. Currently, no adjustment is made for changes in the timing of Easter. 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.
- Symbols and abbreviations** 24
- |          |   |
|----------|---|
| 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   |
- Changes in forthcoming issue** 25 The results for manufacturing production to be published in the May 2013 release will be presented for reference year 2010. Indices of major groups are arithmetically converted to base 2010 = 100. In addition, new weights (weighting factors) based on weights as obtained from the 2010 national accounts value added weights will be implemented for the period from January 2010 in order to obtain division and total manufacturing indices.

**Technical notes**

**25** 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 – 2013</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>

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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.

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