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# Statistical release

## P3041.2

# Manufacturing: Production and sales (Preliminary)

## August 2013

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## Key figures for August 2013

**Table A – Manufacturing production and sales**

Estimates	August 2013	% change between August 2012 and August 2013	% change between June to August 2012 and June to August 2013	% change between January 2012 to August 2012 and January 2013 to August 2013
Physical volume of manufacturing production index (base: 2010=100)	110,1	0,2	2,1	1,9
Total estimated sales of manufactured products (R million)	141 598	7,2	9,4	8,3

Seasonally adjusted estimates	August 2013	% change between July and August 2013	% change between March to May 2013 and June to August 2013
Physical volume of manufacturing production index (base: 2010=100)	106,3	-3,6	0,2
Total value of sales of manufactured products (R million)	139 254	-2,8	2,1

**Manufacturing production increased by 0,2% in August 2013 compared with August 2012.**

The 0,2% year-on-year increase in manufacturing production in August 2013 was mainly due to higher production in the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (3,5% and contributing 0,7 of a percentage point);
- wood and wood products, paper, publishing and printing (6,4% and contributing 0,6 of a percentage point);
- petroleum, chemical products, rubber and plastic products (2,0% and contributing 0,5 of a percentage point);
- glass and non-metallic mineral products (9,4% and contributing 0,4 of a percentage point); and
- food and beverages (1,7% and contributing 0,4 of a percentage point).

The motor vehicles, parts and accessories and other transport equipment division (-25,0% and contributing -2,3 percentage points) was a significant negative contributor (see Table 4b).

**Seasonally adjusted manufacturing production for the three months ended August 2013 increased by 0,2% compared with the previous three months. Five of the ten manufacturing divisions reported positive growth rates over this period.**

The largest positive contributions to the increase of 0,2% were made by the following divisions:

- wood and wood products, paper, publishing and printing (7,2% and contributing 0,6 of a percentage point); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (2,5% and contributing 0,5 of a percentage point).

The motor vehicles, parts and accessories and other transport equipment division (-9,6% and contributing -0,9 of a percentage point) was a significant negative contributor (see Table B).

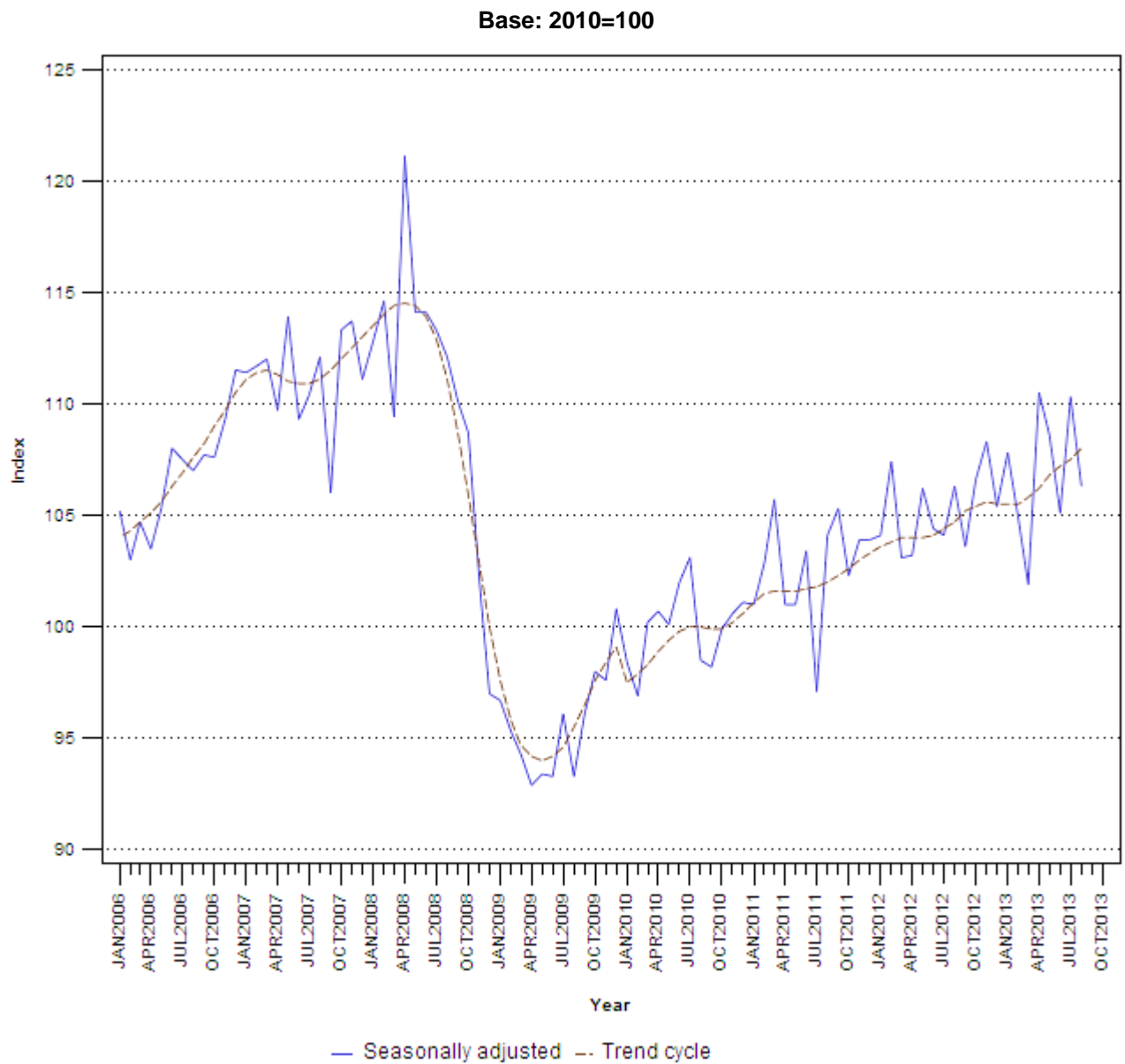
**Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production**

**Base: 2010=100**

Manufacturing divisions and major groups	Weights 2010	Average seasonally adjusted production March to May 2013	Average seasonally adjusted production June to August 2013	Quarterly % change of June to August 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>22,1</b>	<b>108,4</b>	<b>108,0</b>	<b>-0,4</b>	<b>-0,1</b>
-Meat, fish, fruit, etc.	4,4	109,5	108,4	-1,0	0,0
-Dairy products	2,2	109,6	106,8	-2,6	-0,1
-Grain mill products	2,7	109,3	106,7	-2,4	-0,1
-Other food products	6,4	108,2	103,4	-4,4	-0,3
-Beverages	6,4	107,0	113,1	5,7	0,4
<b>Textiles, clothing, leather and footwear</b>	<b>3,5</b>	<b>98,0</b>	<b>99,1</b>	<b>1,1</b>	<b>0,0</b>
-Textiles	1,1	89,4	88,7	-0,8	0,0
-Wearing apparel	1,7	101,4	100,6	-0,8	0,0
-Leather and leather products	0,2	107,5	125,7	16,9	0,0
-Footwear	0,5	101,5	105,6	4,0	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,3</b>	<b>99,1</b>	<b>106,2</b>	<b>7,2</b>	<b>0,6</b>
-Wood and products of wood	2,5	101,3	103,7	2,4	0,1
-Paper and paper products	3,2	97,8	102,2	4,5	0,1
-Publishing and printing	3,6	98,6	111,5	13,1	0,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>25,1</b>	<b>106,5</b>	<b>106,7</b>	<b>0,2</b>	<b>0,0</b>
-Coke, petroleum products and nuclear fuel	8,0	95,6	94,7	-0,9	-0,1
-Basic chemicals	5,8	108,8	112,3	3,2	0,2
-Other chemical products	7,4	114,2	112,9	-1,1	-0,1
-Rubber products	1,2	118,0	117,9	-0,1	0,0
-Plastic products	2,7	107,3	107,7	0,4	0,0
<b>Glass and non-metallic mineral products</b>	<b>4,9</b>	<b>106,9</b>	<b>108,3</b>	<b>1,3</b>	<b>0,1</b>
-Glass and glass products	0,8	109,9	114,3	4,0	0,0
-Non-metallic mineral products	4,1	106,3	107,2	0,8	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,3</b>	<b>106,7</b>	<b>109,4</b>	<b>2,5</b>	<b>0,5</b>
-Basic iron and steel products	4,4	91,0	105,0	15,4	0,6
-Basic precious, non-ferrous metal products	3,5	112,2	112,0	-0,2	0,0
-Fabricated metal products	5,7	105,4	107,9	2,4	0,1
-Machinery and equipment	6,7	115,4	112,2	-2,8	-0,2
<b>Electrical machinery</b>	<b>2,4</b>	<b>106,7</b>	<b>105,2</b>	<b>-1,4</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,3</b>	<b>126,1</b>	<b>122,1</b>	<b>-3,2</b>	<b>0,0</b>
-Radio, television and communication apparatus	0,8	139,9	138,0	-1,4	0,0
-Professional equipment	0,5	106,7	99,6	-6,7	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,9</b>	<b>121,0</b>	<b>109,4</b>	<b>-9,6</b>	<b>-0,9</b>
-Motor vehicles	3,2	148,2	119,4	-19,4	-0,9
-Bodies for motor vehicles, trailers and semi-trailers	0,6	110,5	112,2	1,5	0,0
-Parts and accessories	2,9	102,6	103,0	0,4	0,0
-Other transport equipment	1,2	97,0	95,8	-1,2	0,0
<b>Furniture and other manufacturing division</b>	<b>3,2</b>	<b>93,8</b>	<b>93,7</b>	<b>-0,1</b>	<b>0,0</b>
-Furniture	0,9	108,2	110,2	1,8	0,0
-Other manufacturing groups	2,3	87,8	86,8	-1,1	0,0
<b>Total</b>	<b>100,0</b>	<b>107,0</b>	<b>107,2</b>	<b>0,2</b>	<b>0,2</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



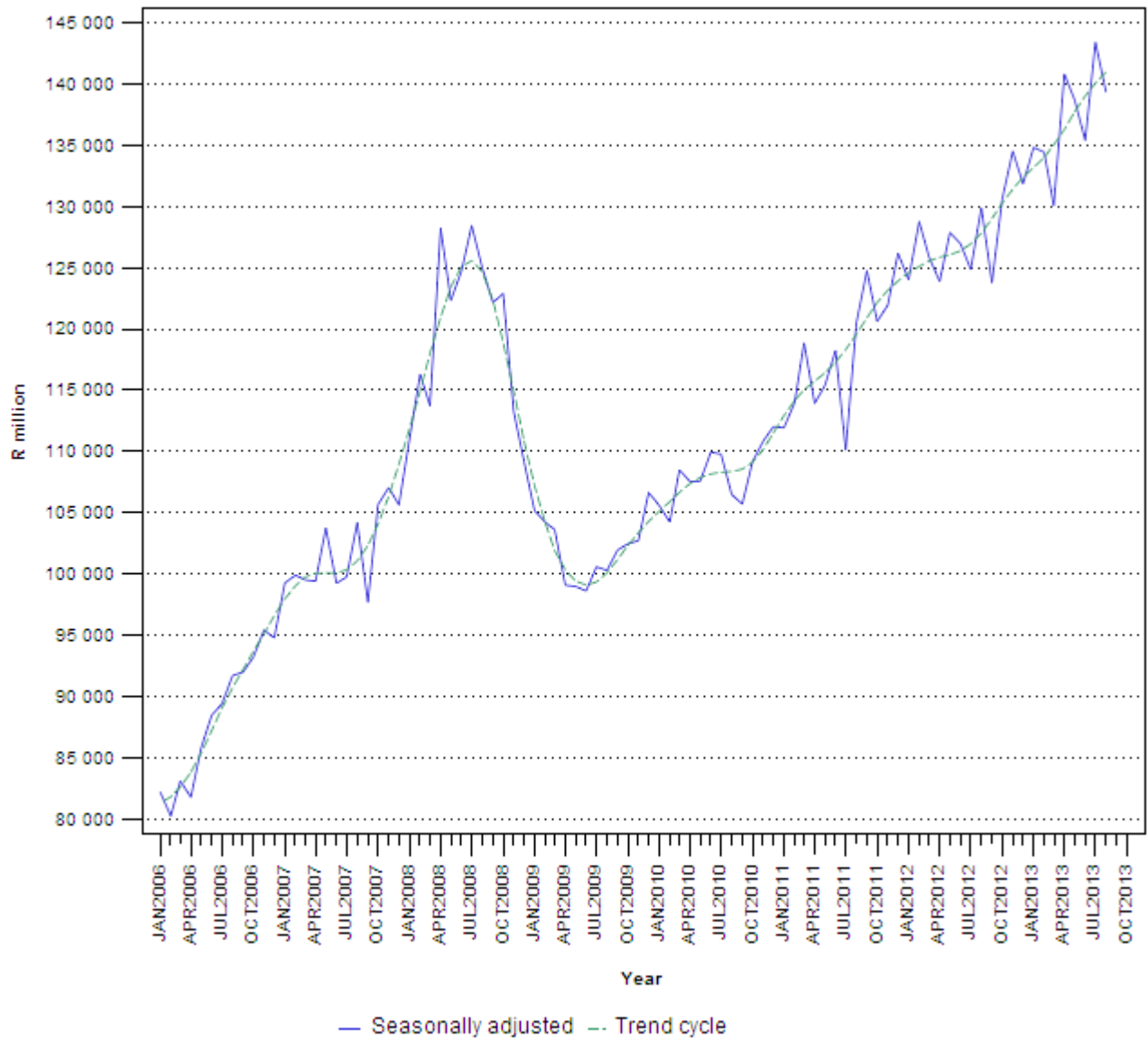
**Seasonally adjusted sales of manufactured products (at current prices) for the three months ended August 2013 increased by 2,1% (R8 503 million) compared with the previous three months. Nine of the ten manufacturing divisions reported positive growth rates over this period.**

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were petroleum, chemical products, rubber and plastic products (4,1% or R4 141 million); basic iron and steel, non-ferrous metal products, metal products and machinery (2,5% or R2 198 million) and wood and wood products, paper, publishing and printing (7,2% or R2 129 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 March to May 2013	Seasonally adjusted sales June to August 2013	% change between March to May 2013 and June to August 2013	Difference in seasonally adjusted sales of manufacturing divisions between March to May 2013 and June to August 2013
	R'000	R'000	%	R'000
<b>Food and beverages</b>	<b>86 261 819</b>	<b>87 080 367</b>	<b>0,9</b>	<b>818 548</b>
-Food and food products	63 312 716	62 720 688	-0,9	-592 028
-Beverages	22 949 102	24 359 680	6,1	1 410 578
<b>Textiles, clothing, leather and footwear</b>	<b>10 850 353</b>	<b>11 017 452</b>	<b>1,5</b>	<b>167 099</b>
-Textiles	4 162 079	4 133 023	-0,7	-29 056
-Wearing apparel	4 281 286	4 287 420	0,1	6 134
-Leather and leather products	1 454 954	1 632 744	12,2	177 790
-Footwear	952 032	964 265	1,3	12 233
<b>Wood and wood products, paper, publishing and printing</b>	<b>29 423 095</b>	<b>31 551 983</b>	<b>7,2</b>	<b>2 128 888</b>
-Wood and products of wood	6 109 237	6 515 493	6,6	406 256
-Paper and paper products	13 831 600	14 343 294	3,7	511 694
-Publishing and printing	9 482 258	10 693 196	12,8	1 210 938
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>100 968 754</b>	<b>105 109 536</b>	<b>4,1</b>	<b>4 140 782</b>
-Coke, petroleum products and nuclear fuel	41 287 798	45 104 883	9,2	3 817 085
-Basic chemicals	21 069 988	21 597 348	2,5	527 360
-Other chemical products	22 263 574	21 879 091	-1,7	-384 483
-Rubber products	4 101 565	3 983 833	-2,9	-117 732
-Plastic products	12 245 830	12 544 382	2,4	298 552
<b>Glass and non-metallic mineral products</b>	<b>13 150 097</b>	<b>13 286 975</b>	<b>1,0</b>	<b>136 878</b>
-Glass and glass products	2 308 990	2 424 358	5,0	115 368
-Non-metallic mineral products	10 841 107	10 862 616	0,2	21 509
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>88 986 889</b>	<b>91 184 894</b>	<b>2,5</b>	<b>2 198 005</b>
-Basic iron and steel products	25 311 729	26 253 375	3,7	941 646
-Basic precious, non-ferrous metal products	17 730 298	19 146 309	8,0	1 416 011
-Fabricated metal products	22 965 480	22 607 928	-1,6	-357 552
-Machinery and equipment	22 979 383	23 177 285	0,9	197 902
<b>Electrical machinery</b>	<b>11 308 554</b>	<b>12 036 180</b>	<b>6,4</b>	<b>727 626</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>4 522 805</b>	<b>4 569 285</b>	<b>1,0</b>	<b>46 480</b>
-Radio, television and communication apparatus	2 224 924	2 329 225	4,7	104 301
-Professional equipment	2 297 881	2 240 059	-2,5	-57 822
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>50 631 913</b>	<b>48 395 978</b>	<b>-4,4</b>	<b>-2 235 935</b>
-Motor vehicles, trailers, parts and accessories	45 941 066	43 694 020	-4,9	-2 247 046
-Other transport equipment	4 690 844	4 701 960	0,2	11 116
<b>Furniture and other manufacturing division</b>	<b>13 313 859</b>	<b>13 688 112</b>	<b>2,8</b>	<b>374 253</b>
-Furniture	3 256 085	3 368 208	3,4	112 123
-Other manufacturing groups	10 057 773	10 319 904	2,6	262 131
<b>Total</b>	<b>409 418 138</b>	<b>417 920 765</b>	<b>2,1</b>	<b>8 502 627</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: 2010=100**

Month	2007	2008	2009	2010	2011	2012	2013
Jan	96,4	97,1	82,7	84,5	86,6	89,4	92,7
Feb	106,7	109,4	91,1	92,2	98,1	102,6	100,4
Mar	115,6	113,1	97,6	103,8	109,4	106,6	105,1
Apr	102,6	112,8	86,6	93,4	93,7	95,4	102,2
May	115,1	115,4	94,2	100,6	101,7	106,8	109,2
Jun	110,7	115,7	94,5	102,9	104,1	104,9	1/ 105,4
Jul	113,1	116,0	98,2	105,3	99,0	106,0	1/ 111,8
Aug	116,1	115,8	96,3	101,6	107,6	109,9	1/ 110,1
Sep	110,1	114,4	99,9	102,2	110,0	107,9	
Oct	125,9	120,8	108,4	110,3	112,6	116,8	
Nov	125,9	113,7	107,9	112,2	116,3	121,1	
Dec	97,2	86,3	89,2	91,0	93,8	95,3	
Year	<b>111,3</b>	<b>110,9</b>	<b>95,6</b>	<b>100,0</b>	<b>102,7</b>	<b>105,2</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	5,4	0,7	-14,8	2,2	2,5	3,2	3,7
Feb	8,1	2,5	-16,7	1,2	6,4	4,6	-2,1
Mar	6,9	-2,2	-13,7	6,4	5,4	-2,6	-1,4
Apr	5,4	9,9	-23,2	7,9	0,3	1,8	7,1
May	8,2	0,3	-18,4	6,8	1,1	5,0	2,2
Jun	1,6	4,5	-18,3	8,9	1,2	0,8	0,5
Jul	3,1	2,6	-15,3	7,2	-6,0	7,1	5,5
Aug	4,8	-0,3	-16,8	5,5	5,9	2,1	0,2
Sep	-1,5	3,9	-12,7	2,3	7,6	-1,9	
Oct	5,4	-4,1	-10,3	1,8	2,1	3,7	
Nov	4,0	-9,7	-5,1	4,0	3,7	4,1	
Dec	-0,2	-11,2	3,4	2,0	3,1	1,6	
Year	<b>4,2</b>	<b>-0,4</b>	<b>-13,8</b>	<b>4,6</b>	<b>2,7</b>	<b>2,4</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: 2010=100**

Month	2007	2008	2009	2010	2011	2012	2013
Jan	111,4	112,8	96,7	98,4	101,0	104,1	107,8
Feb	111,7	114,6	95,3	96,9	102,9	107,4	104,8
Mar	112,0	109,4	94,3	100,2	105,7	103,1	101,9
Apr	109,7	121,1	92,9	100,7	101,0	103,2	110,5
May	113,9	114,1	93,4	100,1	101,0	106,2	108,6
Jun	109,3	114,1	93,3	102,0	103,4	104,4	105,1
Jul	110,4	113,3	96,1	103,1	97,1	104,1	110,3
Aug	112,1	112,1	93,3	98,5	104,1	106,3	106,3
Sep	106,0	110,1	96,1	98,2	105,3	103,6	
Oct	113,3	108,7	98,0	99,9	102,3	106,6	
Nov	113,7	102,2	97,6	100,6	103,9	108,3	
Dec	111,1	97,0	100,8	101,1	103,9	105,4	



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

**Base: 2010=100**

Manufacturing divisions and major groups	Weights 2010	Average for 2012	Actual indices			Seasonally adjusted indices		
			August 2012	1/ July 2013	1/ August 2013	August 2012	July 2013	August 2013
<b>Food and beverages</b>	<b>22,1</b>	<b>104,4</b>	<b>109,7</b>	<b>108,6</b>	<b>111,6</b>	<b>106,5</b>	<b>110,7</b>	<b>107,3</b>
-Meat, fish, fruit, etc.	4,4	106,4	111,8	112,4	110,3	109,2	112,7	107,1
-Dairy products	2,2	108,8	110,9	101,4	104,6	111,2	108,5	105,1
-Grain mill products	2,7	105,1	113,0	112,0	108,4	109,6	110,7	104,6
-Other food products	6,4	97,4	109,2	116,5	123,0	94,4	105,4	106,1
-Beverages	6,4	108,0	107,0	99,1	104,9	113,7	115,3	110,6
<b>Textiles, clothing, leather and footwear</b>	<b>3,5</b>	<b>95,7</b>	<b>101,2</b>	<b>102,2</b>	<b>100,3</b>	<b>99,0</b>	<b>100,1</b>	<b>97,8</b>
-Textiles	0,7	87,1	93,5	88,9	80,8	94,5	86,7	81,7
-Other textile products	0,4	96,4	99,1	99,2	94,3	97,2	97,9	92,7
-Knitted, crocheted articles	0,1	71,5	66,3	60,3	58,4	73,3	63,7	64,6
-Wearing apparel	1,6	98,7	104,0	103,6	105,2	100,9	102,2	101,6
-Leather and leather products	0,2	107,2	102,2	126,5	118,2	108,6	128,3	125,9
-Footwear	0,5	95,8	109,7	114,0	114,9	100,2	106,6	104,7
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,3</b>	<b>103,9</b>	<b>107,8</b>	<b>104,6</b>	<b>114,7</b>	<b>105,8</b>	<b>105,8</b>	<b>112,7</b>
-Sawmilling and planing of wood	0,8	106,8	112,1	117,0	115,5	107,3	111,2	110,7
-Products of wood	1,7	100,3	106,4	102,5	107,5	101,6	100,5	102,7
-Paper and paper products	3,2	98,6	97,5	99,2	104,4	97,0	102,3	103,8
-Publishing	1,4	115,4	112,2	117,2	134,1	116,5	120,8	139,3
-Printing, recorded media	2,2	105,6	119,3	101,0	122,1	114,0	103,2	116,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>25,1</b>	<b>107,2</b>	<b>108,9</b>	<b>114,6</b>	<b>111,1</b>	<b>106,0</b>	<b>109,6</b>	<b>108,3</b>
-Coke, petroleum products and nuclear fuel	8,0	104,1	106,7	109,4	109,5	99,0	96,2	101,4
-Basic chemicals	5,8	106,9	105,6	117,6	109,1	104,4	115,9	108,4
-Other chemical products	7,4	109,1	113,0	116,3	116,0	112,7	116,1	115,7
-Rubber products	1,2	116,4	105,4	122,5	104,5	112,7	117,4	112,6
-Plastic products	2,7	107,7	112,5	115,5	109,5	108,8	114,6	105,9
<b>Glass and non-metallic mineral products</b>	<b>4,9</b>	<b>103,8</b>	<b>106,0</b>	<b>115,3</b>	<b>116,0</b>	<b>99,5</b>	<b>109,4</b>	<b>109,0</b>
-Glass and glass products	0,8	104,1	110,3	117,8	117,0	107,8	114,5	114,2
-Non-metallic mineral products	4,1	103,7	105,2	114,8	115,8	97,9	108,4	108,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,3</b>	<b>103,9</b>	<b>107,8</b>	<b>111,0</b>	<b>111,6</b>	<b>104,8</b>	<b>111,2</b>	<b>108,6</b>
-Basic iron and steel products	4,4	92,2	94,2	102,2	96,8	96,7	111,6	100,3
-Non-ferrous metal products	3,5	97,3	100,3	114,6	114,2	97,2	113,8	110,4
-Structural metal products	1,9	98,1	104,4	85,3	94,4	96,7	83,6	86,9
-Other fabricated metal products	3,8	113,1	122,9	125,0	132,7	116,4	118,2	124,8
-General purpose machinery	2,3	109,8	110,4	104,3	98,1	107,1	102,5	95,4
-Special purpose machinery	3,5	112,0	111,2	120,5	119,4	109,6	119,9	118,6
-Household appliances	0,9	113,7	125,8	115,2	125,5	115,8	115,4	115,4
<b>Electrical machinery</b>	<b>2,4</b>	<b>101,3</b>	<b>104,9</b>	<b>108,9</b>	<b>110,2</b>	<b>98,9</b>	<b>106,4</b>	<b>105,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,3</b>	<b>121,7</b>	<b>131,3</b>	<b>124,5</b>	<b>138,0</b>	<b>122,6</b>	<b>118,2</b>	<b>127,1</b>
-Radio, television and communication apparatus	0,8	130,1	145,8	136,3	167,6	132,9	128,9	150,6
-Professional equipment	0,5	109,8	110,9	107,9	96,2	108,0	103,0	93,8
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,9</b>	<b>110,7</b>	<b>125,9</b>	<b>128,0</b>	<b>94,4</b>	<b>118,1</b>	<b>124,4</b>	<b>88,5</b>
-Motor vehicles	3,2	124,2	147,9	153,9	77,9	137,1	145,0	71,8
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	120,5	118,4	118,6	114,1	116,6	112,6
-Parts and accessories	2,9	99,9	107,7	114,5	105,3	103,1	115,1	100,4
-Other transport equipment	1,2	99,3	113,4	95,2	99,9	105,1	94,4	92,3
<b>Furniture and other manufacturing division</b>	<b>3,2</b>	<b>103,6</b>	<b>110,8</b>	<b>99,7</b>	<b>96,6</b>	<b>107,1</b>	<b>97,1</b>	<b>92,9</b>
-Furniture	0,9	111,5	120,0	117,1	116,5	116,1	112,7	112,4
-Other manufacturing groups	2,3	100,3	106,9	92,4	88,3	103,3	90,6	84,8
<b>Total</b>	<b>100,0</b>	<b>105,2</b>	<b>109,9</b>	<b>111,8</b>	<b>110,1</b>	<b>106,3</b>	<b>110,3</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: 2010=100**

Manufacturing divisions and major groups	Weights 2010	Average for 2012	Actual indices			Seasonally adjusted indices		
			August 2012	1/ August 2013	% change between August 2012 and August 2013	July 2013	August 2013	% change between July and August 2013
<b>Food and beverages</b>	<b>22,1</b>	<b>104,4</b>	<b>109,7</b>	<b>111,6</b>	<b>1,7</b>	<b>110,7</b>	<b>107,3</b>	<b>-3,1</b>
-Meat, fish, fruit, etc.	4,4	106,4	111,8	110,3	-1,3	112,7	107,1	-5,0
-Dairy products	2,2	108,8	110,9	104,6	-5,7	108,5	105,1	-3,1
-Grain mill products	2,7	105,1	113,0	108,4	-4,1	110,7	104,6	-5,5
-Other food products	6,4	97,4	109,2	123,0	12,6	105,4	106,1	0,7
-Beverages	6,4	108,0	107,0	104,9	-2,0	115,3	110,6	-4,1
<b>Textiles, clothing, leather and footwear</b>	<b>3,5</b>	<b>95,7</b>	<b>101,2</b>	<b>100,3</b>	<b>-0,9</b>	<b>100,1</b>	<b>97,8</b>	<b>-2,3</b>
-Textiles	0,7	87,1	93,5	80,8	-13,6	86,7	81,7	-5,8
-Other textile products	0,4	96,4	99,1	94,3	-4,8	97,9	92,7	-5,3
-Knitted, crocheted articles	0,1	71,5	66,3	58,4	-11,9	63,7	64,6	1,4
-Wearing apparel	1,6	98,7	104,0	105,2	1,2	102,2	101,6	-0,6
-Leather and leather products	0,2	107,2	102,2	118,2	15,7	128,3	125,9	-1,9
-Footwear	0,5	95,8	109,7	114,9	4,7	106,6	104,7	-1,8
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,3</b>	<b>103,9</b>	<b>107,8</b>	<b>114,7</b>	<b>6,4</b>	<b>105,8</b>	<b>112,7</b>	<b>6,5</b>
-Sawmilling and planing of wood	0,8	106,8	112,1	115,5	3,0	111,2	110,7	-0,4
-Products of wood	1,7	100,3	106,4	107,5	1,0	100,5	102,7	2,2
-Paper and paper products	3,2	98,6	97,5	104,4	7,1	102,3	103,8	1,5
-Publishing	1,4	115,4	112,2	134,1	19,5	120,8	139,3	15,3
-Printing, recorded media	2,2	105,6	119,3	122,1	2,3	103,2	116,4	12,8
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>25,1</b>	<b>107,2</b>	<b>108,9</b>	<b>111,1</b>	<b>2,0</b>	<b>109,6</b>	<b>108,3</b>	<b>-1,2</b>
-Coke, petroleum products and nuclear fuel	8,0	104,1	106,7	109,5	2,6	96,2	101,4	5,4
-Basic chemicals	5,8	106,9	105,6	109,1	3,3	115,9	108,4	-6,5
-Other chemical products	7,4	109,1	113,0	116,0	2,7	116,1	115,7	-0,3
-Rubber products	1,2	116,4	105,4	104,5	-0,9	117,4	112,6	-4,1
-Plastic products	2,7	107,7	112,5	109,5	-2,7	114,6	105,9	-7,6
<b>Glass and non-metallic mineral products</b>	<b>4,9</b>	<b>103,8</b>	<b>106,0</b>	<b>116,0</b>	<b>9,4</b>	<b>109,4</b>	<b>109,0</b>	<b>-0,4</b>
-Glass and glass products	0,8	104,1	110,3	117,0	6,1	114,5	114,2	-0,3
-Non-metallic mineral products	4,1	103,7	105,2	115,8	10,1	108,4	108,0	-0,4
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,3</b>	<b>103,9</b>	<b>107,8</b>	<b>111,6</b>	<b>3,5</b>	<b>111,2</b>	<b>108,6</b>	<b>-2,3</b>
-Basic iron and steel products	4,4	92,2	94,2	96,8	2,8	111,6	100,3	-10,1
-Non-ferrous metal products	3,5	97,3	100,3	114,2	13,9	113,8	110,4	-3,0
-Structural metal products	1,9	98,1	104,4	94,4	-9,6	83,6	86,9	3,9
-Other fabricated metal products	3,8	113,1	122,9	132,7	8,0	118,2	124,8	5,6
-General purpose machinery	2,3	109,8	110,4	98,1	-11,1	102,5	95,4	-6,9
-Special purpose machinery	3,5	112,0	111,2	119,4	7,4	119,9	118,6	-1,1
-Household appliances	0,9	113,7	125,8	125,5	-0,2	115,4	115,4	0,0
<b>Electrical machinery</b>	<b>2,4</b>	<b>101,3</b>	<b>104,9</b>	<b>110,2</b>	<b>5,1</b>	<b>106,4</b>	<b>105,0</b>	<b>-1,3</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,3</b>	<b>121,7</b>	<b>131,3</b>	<b>138,0</b>	<b>5,1</b>	<b>118,2</b>	<b>127,1</b>	<b>7,5</b>
-Radio, television and communication apparatus	0,8	130,1	145,8	167,6	15,0	128,9	150,6	16,8
-Professional equipment	0,5	109,8	110,9	96,2	-13,3	103,0	93,8	-8,9
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,9</b>	<b>110,7</b>	<b>125,9</b>	<b>94,4</b>	<b>-25,0</b>	<b>124,4</b>	<b>88,5</b>	<b>-28,9</b>
-Motor vehicles	3,2	124,2	147,9	77,9	-47,3	145,0	71,8	-50,5
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	120,5	118,6	-1,6	116,6	112,6	-3,4
-Parts and accessories	2,9	99,9	107,7	105,3	-2,2	115,1	100,4	-12,8
-Other transport equipment	1,2	99,3	113,4	99,9	-11,9	94,4	92,3	-2,2
<b>Furniture and other manufacturing division</b>	<b>3,2</b>	<b>103,6</b>	<b>110,8</b>	<b>96,6</b>	<b>-12,8</b>	<b>97,1</b>	<b>92,9</b>	<b>-4,3</b>
-Furniture	0,9	111,5	120,0	116,5	-2,9	112,7	112,4	-0,3
-Other manufacturing groups	2,3	100,3	106,9	88,3	-17,4	90,6	84,8	-6,4
<b>Total</b>	<b>100,0</b>	<b>105,2</b>	<b>109,9</b>	<b>110,1</b>	<b>0,2</b>	<b>110,3</b>	<b>106,3</b>	<b>-3,6</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	83 305 965	93 280 502	87 916 275	88 548 858	94 246 456	105 443 384	114 667 597
Feb	95 420 251	110 769 560	99 565 792	100 040 055	109 522 908	123 677 978	129 430 936
Mar	102 759 188	117 621 056	107 737 720	113 278 092	123 964 153	130 984 336	135 367 021
Apr	92 877 708	119 609 521	92 230 272	99 980 962	106 169 292	115 493 885	131 245 797
May	104 205 853	122 938 629	98 715 959	107 436 033	115 621 248	128 068 083	138 886 360
Jun	101 154 327	127 601 209	100 377 623	111 752 400	120 091 539	128 588 051	1/ 136 903 333
Jul	101 798 105	131 369 593	102 048 423	110 963 260	110 987 187	125 462 845	1/ 143 757 991
Aug	107 658 150	129 126 848	103 007 029	108 663 903	122 688 235	132 094 313	1/ 141 597 690
Sep	102 989 748	128 633 004	107 188 812	111 184 472	130 818 755	129 532 600	
Oct	116 363 030	135 163 841	112 486 658	119 561 318	131 429 847	141 820 125	
Nov	118 990 834	125 995 637	114 583 579	124 219 561	136 700 911	150 484 487	
Dec	94 537 958	98 974 837	97 356 722	102 518 765	115 525 999	121 426 485	
Year	<b>1 222 061 117</b>	<b>1 441 084 237</b>	<b>1 223 214 864</b>	<b>1 298 147 679</b>	<b>1 417 766 530</b>	<b>1 533 076 572</b>	

1/ Preliminary.

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

Month	2007	2008	2009	2010	2011	2012	2013
Jan	20,7	12,0	-5,8	0,7	6,4	11,9	8,7
Feb	24,0	16,1	-10,1	0,5	9,5	12,9	4,7
Mar	20,1	14,5	-8,4	5,1	9,4	5,7	3,3
Apr	21,2	28,8	-22,9	8,4	6,2	8,8	13,6
May	21,0	18,0	-19,7	8,8	7,6	10,8	8,4
Jun	12,5	26,1	-21,3	11,3	7,5	7,1	6,5
Jul	11,7	29,0	-22,3	8,7	0,0	13,0	14,6
Aug	13,4	19,9	-20,2	5,5	12,9	7,7	7,2
Sep	6,1	24,9	-16,7	3,7	17,7	-1,0	
Oct	13,5	16,2	-16,8	6,3	9,9	7,9	
Nov	12,1	5,9	-9,1	8,4	10,0	10,1	
Dec	11,3	4,7	-1,6	5,3	12,7	5,1	
Year	<b>15,2</b>	<b>17,9</b>	<b>-15,1</b>	<b>6,1</b>	<b>9,2</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	99 310 236	111 031 998	105 202 231	105 617 216	111 937 351	123 998 197	134 765 516
Feb	99 938 786	116 292 157	104 254 911	104 262 940	113 952 480	128 733 746	134 378 782
Mar	99 560 547	113 732 951	103 653 046	108 511 217	118 850 433	125 824 969	130 029 432
Apr	99 452 519	128 216 584	99 130 457	107 567 080	113 930 188	123 855 221	140 748 387
May	103 790 676	122 313 090	99 032 079	107 595 335	115 383 489	127 841 808	138 640 319
Jun	99 285 370	124 697 379	98 654 562	109 951 020	118 232 975	126 917 626	135 349 507
Jul	99 800 488	128 410 364	100 627 057	109 806 142	110 128 121	124 837 780	143 317 671
Aug	104 233 177	124 957 797	100 335 065	106 517 762	120 456 312	129 857 548	139 253 587
Sep	97 743 662	122 143 729	101 988 681	105 722 200	124 739 332	123 753 994	
Oct	105 704 889	122 870 675	102 487 903	109 171 081	120 604 085	130 555 997	
Nov	107 071 757	113 260 696	102 752 058	110 836 557	121 918 216	134 457 398	
Dec	105 665 675	109 227 837	106 672 962	112 034 016	126 157 618	131 807 354	

**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		
		August 2012	1/ July 2013	1/ August 2013	August 2012	July 2013	August 2013
<b>Food and beverages</b>	<b>326 946 141</b>	<b>27 975 002</b>	<b>28 321 397</b>	<b>29 088 368</b>	<b>27 984 842</b>	<b>29 596 008</b>	<b>29 022 802</b>
-Meat, fish, fruit, etc.	80 822 453	7 076 527	7 481 978	7 395 625	6 951 185	7 562 019	7 240 013
-Dairy products	28 312 329	2 445 183	2 489 322	2 467 175	2 453 350	2 562 278	2 477 975
-Grain mill products	56 100 754	4 955 206	5 249 810	5 068 788	4 851 171	5 156 796	4 944 963
-Other food products	71 712 263	6 327 693	6 105 494	6 579 880	6 052 700	6 101 371	6 280 090
-Beverages	89 998 342	7 170 393	6 994 793	7 576 900	7 676 436	8 213 544	8 079 761
<b>Textiles, clothing, leather and footwear</b>	<b>40 404 981</b>	<b>3 478 301</b>	<b>3 809 427</b>	<b>3 694 215</b>	<b>3 457 173</b>	<b>3 764 931</b>	<b>3 665 912</b>
-Textiles	5 235 984	440 527	513 412	475 014	438 847	515 102	473 117
-Other textile products	10 153 318	876 343	953 956	868 117	890 615	927 173	882 152
-Knitted, crocheted articles	1 753 481	133 213	130 311	139 805	145 803	132 730	152 599
-Wearing apparel	14 143 137	1 264 830	1 314 990	1 342 987	1 214 958	1 295 442	1 284 474
-Leather and leather products	5 510 187	456 008	563 234	538 465	470 164	563 416	554 857
-Footwear	3 608 874	307 380	333 524	329 827	296 786	331 068	318 712
<b>Wood and wood products, paper, publishing and printing</b>	<b>117 712 985</b>	<b>10 302 083</b>	<b>10 216 948</b>	<b>11 499 521</b>	<b>10 071 625</b>	<b>10 522 225</b>	<b>11 234 533</b>
-Sawmilling and planing of wood	8 463 057	766 200	791 414	880 803	723 028	770 238	830 561
-Products of wood	15 757 813	1 381 083	1 410 857	1 490 999	1 320 030	1 391 852	1 425 782
-Paper and paper products	53 172 649	4 594 131	4 612 344	5 021 918	4 520 911	4 852 183	4 923 696
-Publishing	18 134 518	1 458 203	1 579 362	1 866 660	1 499 886	1 632 653	1 924 170
-Printing, recorded media	22 184 948	2 102 466	1 822 971	2 239 141	2 007 770	1 875 300	2 130 323
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>376 486 756</b>	<b>31 770 793</b>	<b>36 944 804</b>	<b>35 504 315</b>	<b>30 971 285</b>	<b>36 407 848</b>	<b>34 751 911</b>
-Coke, petroleum products and nuclear fuel	158 106 980	13 216 708	16 392 704	15 794 541	12 469 599	15 490 624	15 065 487
-Basic chemicals	76 438 686	6 303 425	7 216 787	6 692 907	6 436 778	7 558 092	6 864 843
-Other chemical products	79 423 187	6 831 644	7 420 976	7 532 348	6 797 804	7 495 680	7 493 826
-Rubber products	15 263 719	1 281 193	1 426 535	1 217 662	1 261 786	1 372 710	1 196 383
-Plastic products	47 254 184	4 137 823	4 487 802	4 266 857	4 005 319	4 490 742	4 131 372
<b>Glass and non-metallic mineral products</b>	<b>47 180 190</b>	<b>4 161 017</b>	<b>4 838 034</b>	<b>4 592 387</b>	<b>3 911 667</b>	<b>4 607 907</b>	<b>4 315 745</b>
-Glass and glass products	8 121 291	714 995	827 096	775 708	705 083	842 228	763 234
-Non-metallic mineral products	39 058 899	3 446 022	4 010 938	3 816 679	3 206 583	3 765 678	3 552 511
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>332 851 058</b>	<b>28 321 482</b>	<b>31 346 735</b>	<b>31 160 669</b>	<b>27 830 627</b>	<b>31 344 053</b>	<b>30 781 010</b>
-Basic iron and steel products	96 706 133	7 903 411	9 005 979	8 555 251	7 987 935	9 358 298	8 774 120
-Non-ferrous metal products	62 624 343	5 248 374	6 298 709	6 330 178	5 351 943	6 415 330	6 450 290
-Structural metal products	32 286 631	2 929 490	2 472 726	2 738 788	2 718 500	2 472 937	2 528 852
-Other fabricated metal products	57 443 513	5 255 464	5 389 378	5 676 320	4 925 994	5 161 286	5 288 988
-General purpose machinery	32 972 813	2 766 681	2 849 132	2 706 136	2 716 547	2 814 585	2 666 750
-Special purpose machinery	40 218 784	3 218 168	4 362 649	4 090 171	3 201 585	4 149 281	4 088 978
-Household appliances	10 598 841	999 894	968 162	1 063 825	928 124	972 336	983 034
<b>Electrical machinery</b>	<b>42 562 562</b>	<b>3 745 949</b>	<b>4 078 538</b>	<b>4 330 754</b>	<b>3 551 688</b>	<b>3 957 272</b>	<b>4 116 242</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>17 461 452</b>	<b>1 650 050</b>	<b>1 583 827</b>	<b>1 736 225</b>	<b>1 489 780</b>	<b>1 516 222</b>	<b>1 542 569</b>
-Radio, television and communication apparatus	8 203 450	822 540	791 563	982 069	698 523	744 043	822 111
-Professional equipment	9 258 002	827 510	792 264	754 156	791 257	772 179	720 458
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>178 804 260</b>	<b>15 983 405</b>	<b>17 953 747</b>	<b>15 350 230</b>	<b>16 080 256</b>	<b>16 927 061</b>	<b>15 361 312</b>
-Motor vehicles	93 885 515	8 439 336	9 682 446	7 934 535	8 774 330	9 091 583	8 197 083
-Bodies for motor vehicles, trailers and semi-trailers	7 327 565	652 189	743 364	652 934	618 786	695 293	621 161
-Parts and accessories	59 193 237	5 133 966	5 965 219	5 111 458	5 063 164	5 595 091	5 022 876
-Other transport equipment	18 397 943	1 757 914	1 562 718	1 651 303	1 623 975	1 545 094	1 520 193
<b>Furniture and other manufacturing division</b>	<b>52 666 187</b>	<b>4 706 231</b>	<b>4 664 534</b>	<b>4 641 006</b>	<b>4 508 606</b>	<b>4 674 144</b>	<b>4 461 550</b>
-Furniture	13 203 900	1 150 268	1 180 011	1 172 126	1 132 100	1 144 540	1 152 319
-Other manufacturing groups	39 462 287	3 555 963	3 484 523	3 468 880	3 376 506	3 529 604	3 309 230
<b>Total</b>	<b>1 533 076 572</b>	<b>132 094 313</b>	<b>143 757 991</b>	<b>141 597 690</b>	<b>129 857 548</b>	<b>143 317 671</b>	<b>139 253 587</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		
		August 2012	1/ August 2013	% change between August 2012 and August 2013	July 2013	August 2013	% change between July and August 2013
<b>Food and beverages</b>	<b>326 946 141</b>	<b>27 975 002</b>	<b>29 088 368</b>	<b>4,0</b>	<b>29 596 008</b>	<b>29 022 802</b>	<b>-1,9</b>
-Meat, fish, fruit, etc.	80 822 453	7 076 527	7 395 625	4,5	7 562 019	7 240 013	-4,3
-Dairy products	28 312 329	2 445 183	2 467 175	0,9	2 562 278	2 477 975	-3,3
-Grain mill products	56 100 754	4 955 206	5 068 788	2,3	5 156 796	4 944 963	-4,1
-Other food products	71 712 263	6 327 693	6 579 880	4,0	6 101 371	6 280 090	2,9
-Beverages	89 998 342	7 170 393	7 576 900	5,7	8 213 544	8 079 761	-1,6
<b>Textiles, clothing, leather and footwear</b>	<b>40 404 981</b>	<b>3 478 301</b>	<b>3 694 215</b>	<b>6,2</b>	<b>3 764 931</b>	<b>3 665 912</b>	<b>-2,6</b>
-Textiles	5 235 984	440 527	475 014	7,8	515 102	473 117	-8,2
-Other textile products	10 153 318	876 343	868 117	-0,9	927 173	882 152	-4,9
-Knitted, crocheted articles	1 753 481	133 213	139 805	4,9	132 730	152 599	15,0
-Wearing apparel	14 143 137	1 264 830	1 342 987	6,2	1 295 442	1 284 474	-0,8
-Leather and leather products	5 510 187	456 008	538 465	18,1	563 416	554 857	-1,5
-Footwear	3 608 874	307 380	329 827	7,3	331 068	318 712	-3,7
<b>Wood and wood products, paper, publishing and printing</b>	<b>117 712 985</b>	<b>10 302 083</b>	<b>11 499 521</b>	<b>11,6</b>	<b>10 522 225</b>	<b>11 234 533</b>	<b>6,8</b>
-Sawmilling and planing of wood	8 463 057	766 200	880 803	15,0	770 238	830 561	7,8
-Products of wood	15 757 813	1 381 083	1 490 999	8,0	1 391 852	1 425 782	2,4
-Paper and paper products	53 172 649	4 594 131	5 021 918	9,3	4 852 183	4 923 696	1,5
-Publishing	18 134 518	1 458 203	1 866 660	28,0	1 632 653	1 924 170	17,9
-Printing, recorded media	22 184 948	2 102 466	2 239 141	6,5	1 875 300	2 130 323	13,6
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>376 486 756</b>	<b>31 770 793</b>	<b>35 504 315</b>	<b>11,8</b>	<b>36 407 848</b>	<b>34 751 911</b>	<b>-4,5</b>
-Coke, petroleum products and nuclear fuel	158 106 980	13 216 708	15 794 541	19,5	15 490 624	15 065 487	-2,7
-Basic chemicals	76 438 686	6 303 425	6 692 907	6,2	7 558 092	6 864 843	-9,2
-Other chemical products	79 423 187	6 831 644	7 532 348	10,3	7 495 680	7 493 826	0,0
-Rubber products	15 263 719	1 281 193	1 217 662	-5,0	1 372 710	1 196 383	-12,8
-Plastic products	47 254 184	4 137 823	4 266 857	3,1	4 490 742	4 131 372	-8,0
<b>Glass and non-metallic mineral products</b>	<b>47 180 190</b>	<b>4 161 017</b>	<b>4 592 387</b>	<b>10,4</b>	<b>4 607 907</b>	<b>4 315 745</b>	<b>-6,3</b>
-Glass and glass products	8 121 291	714 995	775 708	8,5	842 228	763 234	-9,4
-Non-metallic mineral products	39 058 899	3 446 022	3 816 679	10,8	3 765 678	3 552 511	-5,7
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>332 851 058</b>	<b>28 321 482</b>	<b>31 160 669</b>	<b>10,0</b>	<b>31 344 053</b>	<b>30 781 010</b>	<b>-1,8</b>
-Basic iron and steel products	96 706 133	7 903 411	8 555 251	8,2	9 358 298	8 774 120	-6,2
-Non-ferrous metal products	62 624 343	5 248 374	6 330 178	20,6	6 415 330	6 450 290	0,5
-Structural metal products	32 286 631	2 929 490	2 738 788	-6,5	2 472 937	2 528 852	2,3
-Other fabricated metal products	57 443 513	5 255 464	5 676 320	8,0	5 161 286	5 288 988	2,5
-General purpose machinery	32 972 813	2 766 681	2 706 136	-2,2	2 814 585	2 666 750	-5,3
-Special purpose machinery	40 218 784	3 218 168	4 090 171	27,1	4 149 281	4 088 978	-1,5
-Household appliances	10 598 841	999 894	1 063 825	6,4	972 336	983 034	1,1
<b>Electrical machinery</b>	<b>42 562 562</b>	<b>3 745 949</b>	<b>4 330 754</b>	<b>15,6</b>	<b>3 957 272</b>	<b>4 116 242</b>	<b>4,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>17 461 452</b>	<b>1 650 050</b>	<b>1 736 225</b>	<b>5,2</b>	<b>1 516 222</b>	<b>1 542 569</b>	<b>1,7</b>
-Radio, television and communication apparatus	8 203 450	822 540	982 069	19,4	744 043	822 111	10,5
-Professional equipment	9 258 002	827 510	754 156	-8,9	772 179	720 458	-6,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>178 804 260</b>	<b>15 983 405</b>	<b>15 350 230</b>	<b>-4,0</b>	<b>16 927 061</b>	<b>15 361 312</b>	<b>-9,2</b>
-Motor vehicles	93 885 515	8 439 336	7 934 535	-6,0	9 091 583	8 197 083	-9,8
-Bodies for motor vehicles, trailers and semi-trailers	7 327 565	652 189	652 934	0,1	695 293	621 161	-10,7
-Parts and accessories	59 193 237	5 133 966	5 111 458	-0,4	5 595 091	5 022 876	-10,2
-Other transport equipment	18 397 943	1 757 914	1 651 303	-6,1	1 545 094	1 520 193	-1,6
<b>Furniture and other manufacturing division</b>	<b>52 666 187</b>	<b>4 706 231</b>	<b>4 641 006</b>	<b>-1,4</b>	<b>4 674 144</b>	<b>4 461 550</b>	<b>-4,5</b>
-Furniture	13 203 900	1 150 268	1 172 126	1,9	1 144 540	1 152 319	0,7
-Other manufacturing groups	39 462 287	3 555 963	3 468 880	-2,4	3 529 604	3 309 230	-6,2
<b>Total</b>	<b>1 533 076 572</b>	<b>132 094 313</b>	<b>141 597 690</b>	<b>7,2</b>	<b>143 317 671</b>	<b>139 253 587</b>	<b>-2,8</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 2010	Production indices (base: 2010=100)			Value of sales (R'000)		
		Jun. to Aug. 2012	Jun. to Aug. 2013	% change between Jun. to Aug. 2012 and Jun. to Aug. 2013	Jun. to Aug. 2012	Jun. to Aug. 2013	% change between Jun. to Aug. 2012 and Jun. to Aug. 2013
<b>Food and beverages</b>	<b>22,1</b>	<b>104,0</b>	<b>107,6</b>	<b>3,5</b>	<b>79 582 559</b>	<b>84 644 369</b>	<b>6,4</b>
-Meat, fish, fruit, etc.	4,4	106,6	109,0	2,3	20 212 799	21 902 806	8,4
-Dairy products	2,2	104,9	100,9	-3,8	6 941 260	7 224 412	4,1
-Grain mill products	2,7	108,0	108,4	0,4	14 223 589	15 246 894	7,2
-Other food products	6,4	108,1	115,8	7,1	18 176 553	18 664 792	2,7
-Beverages	6,4	96,1	100,6	4,7	20 028 358	21 605 465	7,9
<b>Textiles, clothing, leather and footwear</b>	<b>3,5</b>	<b>97,5</b>	<b>100,1</b>	<b>2,7</b>	<b>10 234 536</b>	<b>11 069 107</b>	<b>8,2</b>
-Textiles	0,7	85,8	85,8	0,0	1 268 767	1 456 733	14,8
-Other textile products	0,4	100,0	96,1	-3,9	2 649 476	2 705 349	2,1
-Knitted, crocheted articles	0,1	67,5	62,3	-7,7	419 320	418 225	-0,3
-Wearing apparel	1,6	102,2	103,0	0,8	3 637 452	3 894 245	7,1
-Leather and leather products	0,2	104,3	124,5	19,4	1 376 705	1 633 432	18,6
-Footwear	0,5	98,0	108,9	11,1	882 816	961 123	8,9
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,3</b>	<b>102,5</b>	<b>106,0</b>	<b>3,4</b>	<b>29 205 645</b>	<b>31 599 062</b>	<b>8,2</b>
-Sawmilling and planing of wood	0,8	110,8	114,0	2,9	2 198 173	2 434 236	10,7
-Products of wood	1,7	104,0	102,4	-1,5	4 061 372	4 230 685	4,2
-Paper and paper products	3,2	98,3	102,7	4,5	13 425 908	14 502 479	8,0
-Publishing	1,4	103,0	118,3	14,9	4 035 702	4 838 457	19,9
-Printing, recorded media	2,2	103,9	102,3	-1,5	5 484 490	5 593 205	2,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>25,1</b>	<b>109,0</b>	<b>109,7</b>	<b>0,6</b>	<b>93 560 409</b>	<b>107 634 363</b>	<b>15,0</b>
-Coke, petroleum products and nuclear fuel	8,0	109,6	103,2	-5,8	39 098 418	47 824 264	22,3
-Basic chemicals	5,8	101,9	113,0	10,9	18 187 368	21 206 829	16,6
-Other chemical products	7,4	112,9	113,4	0,4	20 412 771	21 904 732	7,3
-Rubber products	1,2	116,8	117,8	0,9	3 896 465	4 063 114	4,3
-Plastic products	2,7	108,7	108,8	0,1	11 965 387	12 635 424	5,6
<b>Glass and non-metallic mineral products</b>	<b>4,9</b>	<b>108,0</b>	<b>114,2</b>	<b>5,7</b>	<b>12 255 153</b>	<b>13 915 493</b>	<b>13,5</b>
-Glass and glass products	0,8	103,3	114,8	11,1	1 994 763	2 401 522	20,4
-Non-metallic mineral products	4,1	109,0	114,0	4,6	10 260 390	11 513 971	12,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,3</b>	<b>104,1</b>	<b>110,2</b>	<b>5,9</b>	<b>83 914 948</b>	<b>92 250 160</b>	<b>9,9</b>
-Basic iron and steel products	4,4	87,0	100,6	15,6	23 591 519	26 206 590	11,1
-Non-ferrous metal products	3,5	91,7	111,5	21,6	15 637 028	18 945 585	21,2
-Structural metal products	1,9	100,8	88,5	-12,2	8 391 071	7 699 874	-8,2
-Other fabricated metal products	3,8	118,8	124,4	4,7	15 129 816	15 917 340	5,2
-General purpose machinery	2,3	113,1	103,3	-8,7	8 465 024	8 405 910	-0,7
-Special purpose machinery	3,5	113,1	119,6	5,7	9 897 240	12 131 217	22,6
-Household appliances	0,9	120,9	118,3	-2,2	2 803 250	2 943 644	5,0
<b>Electrical machinery</b>	<b>2,4</b>	<b>109,7</b>	<b>109,2</b>	<b>-0,5</b>	<b>11 393 419</b>	<b>12 526 410</b>	<b>9,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,3</b>	<b>126,3</b>	<b>127,7</b>	<b>1,1</b>	<b>4 644 462</b>	<b>4 839 443</b>	<b>4,2</b>
-Radio, television and communication apparatus	0,8	135,8	144,6	6,5	2 232 924	2 496 012	11,8
-Professional equipment	0,5	112,8	103,9	-7,9	2 411 538	2 343 431	-2,8
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,9</b>	<b>120,5</b>	<b>114,8</b>	<b>-4,7</b>	<b>47 894 896</b>	<b>49 811 592</b>	<b>4,0</b>
-Motor vehicles	3,2	141,4	127,3	-10,0	25 619 945	26 529 342	3,5
-Bodies for motor vehicles, trailers and semi-trailers	0,6	113,6	114,9	1,1	1 864 487	2 033 290	9,1
-Parts and accessories	2,9	103,0	105,6	2,5	15 330 706	16 178 196	5,5
-Other transport equipment	1,2	109,7	103,0	-6,1	5 079 758	5 070 764	-0,2
<b>Furniture and other manufacturing division</b>	<b>3,2</b>	<b>107,0</b>	<b>96,2</b>	<b>-10,1</b>	<b>13 459 182</b>	<b>13 969 015</b>	<b>3,8</b>
-Furniture	0,9	118,1	113,1	-4,2	3 460 955	3 421 887	-1,1
-Other manufacturing groups	2,3	102,4	89,1	-13,0	9 998 227	10 547 128	5,5
<b>Total</b>	<b>100,0</b>	<b>106,9</b>	<b>109,1</b>	<b>2,1</b>	<b>386 145 209</b>	<b>422 259 014</b>	<b>9,4</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 2010. 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 August 2013 was 87,5%. Improved collection rate for July 2013 was 91,2%.
- Statistical unit**
- 10 The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

**Survey methodology and design**

- 11 The survey is conducted monthly. Questionnaires are sent to a sample of 3 000 enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Fax and telephone reminders are used to follow up non-respondents.
- 12 The value of sales of manufactured products is obtained monthly from the sample of 3 000 enterprises, which was drawn in April 2013 from a population then of 47 605 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 large sample survey of the manufacturing industry or national accounts value added weights. For the period 2001 to 2004, the weights are based on the 2001 large sample survey of the manufacturing industry (LSS), for the period 2005 to 2009, the weights are based on the 2005 LSS and for the period 2010 to 2013, the weights are based on national accounts value added data. Weights between LSS / national accounts years are fixed. The production indices of all divisions are multiplied by the applicable weights and aggregated to produce the index for the total physical volume of manufacturing production (see Table F for the fixed weights which were used for the three periods 2001 to 2004, 2005 to 2009 and 2010 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 a time 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   |

**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>	An 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 2010. The production in the base period is set at 100.
<b>Industry</b>	An industry consists of a group 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 2001 LSS of the manufacturing industry 2001 - 2004</b>	<b>Weights according to the 2005 LSS of the manufacturing industry 2005 - 2009</b>	<b>Weights according to 2010 national accounts value added 2010 - 2013</b>
<b>Food and beverages</b>	<b>16,4</b>	<b>15,4</b>	<b>22,1</b>
Meat, fish, fruit, etc.	2,6	1,8	4,4
Dairy products	1,1	0,8	2,2
Grain mill products	1,5	0,8	2,7
Other food products	6,8	5,2	6,4
Beverages	4,3	6,8	6,4
<b>Textiles, clothing, leather and footwear</b>	<b>5,4</b>	<b>4,9</b>	<b>3,5</b>
Textiles	1,2	0,7	0,7
Other textile products	1,2	0,9	0,4
Knitted, crocheted articles	0,3	0,2	0,1
Wearing apparel	2,0	2,1	1,6
Tanning, dressing of leather	0,3	0,6	0,2
Footwear	0,4	0,4	0,5
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,0</b>	<b>10,2</b>	<b>9,3</b>
Sawmilling and planing of wood	0,7	0,7	0,8
Products of wood	1,0	1,3	1,7
Paper and paper products	4,8	3,8	3,2
Publishing	2,4	1,9	1,4
Printing, recorded media	2,1	2,5	2,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,5</b>	<b>22,1</b>	<b>25,1</b>
Petroleum products	9,1	8,5	8,0
Basic chemicals	4,0	4,5	5,8
Other chemical products	5,4	5,3	7,4
Rubber products	1,1	1,0	1,2
Plastic products	3,0	2,7	2,7
<b>Glass and non-metallic mineral products</b>	<b>3,9</b>	<b>4,8</b>	<b>4,9</b>
Glass and glass products	1,1	1,0	0,8
Non-metallic mineral products	2,9	3,8	4,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,4</b>	<b>22,9</b>	<b>20,3</b>
Basic iron and steel products	5,5	7,7	4,4
Non-ferrous metal products	4,7	3,4	3,5
Structural metal products	1,3	2,0	1,9
Other fabricated metal products	4,2	3,8	3,8
General purpose machinery	2,4	2,4	2,3
Special purpose machinery	3,2	3,1	3,5
Household appliances	1,2	0,6	0,9
<b>Electrical machinery</b>	<b>2,7</b>	<b>2,5</b>	<b>2,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,3</b>	<b>1,1</b>	<b>1,3</b>
Radio, television and communication apparatus	0,7	0,4	0,8
Professional equipment	0,6	0,7	0,5
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,6</b>	<b>10,9</b>	<b>7,9</b>
Motor vehicles	4,1	4,9	3,2
Bodies for motor vehicles, trailers and semi-trailers	0,4	0,5	0,6
Parts and accessories	3,1	4,7	2,9
Other transport equipment	1,0	0,9	1,2
<b>Other manufacturing divisions</b>	<b>5,8</b>	<b>5,2</b>	<b>3,2</b>
Furniture	1,6	1,3	0,9
Other manufacturing groups	4,2	3,9	2,3
<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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