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# Statistical release

## P3041.2

# Manufacturing: Production and sales (Preliminary)

## November 2014

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## Key figures for November 2014

**Table A – Manufacturing production and sales**

Estimates	November 2014	% change between November 2013 and November 2014	% change between September to November 2013 and September to November 2014	% change between January to November 2013 and January to November 2014
Physical volume of manufacturing production index (base: 2010=100)	119,5	-1,3	2,9	-0,1
Total estimated sales of manufactured products (R million)	171 859	6,0	11,2	9,0

Seasonally adjusted estimates	November 2014	% change between October and November 2014	% change between June to August 2014 and September to November 2014
Physical volume of manufacturing production index (base: 2010=100)	107,0	-2,1	4,1
Total value of sales of manufactured products (R million)	153 767	-4,5	3,9

***Manufacturing production declined by 1,3% in November 2014 compared with November 2013.***

The 1,3% year-on-year decrease in manufacturing production in November 2014 was mainly due to lower production in the following divisions:

- motor vehicles, parts and accessories and other transport equipment (-9,1% and contributing -0,9 of a percentage point);
- food and beverages (-1,7% and contributing -0,4 of a percentage point); and
- glass and non-metallic mineral products (-6,8% and contributing -0,3 of a percentage point) (see Table 4b).

***Seasonally adjusted manufacturing production increased by 4,1% in the three months ended November 2014 compared with the previous three months. All ten manufacturing divisions reported positive growth rates over this period.***

The main contributors to the 4,1% increase were the motor vehicles, parts and accessories and other transport equipment division (16,7% and contributing 1,4 percentage points) and the basic iron and steel, non-ferrous metal products, metal products and machinery division (5,5% and contributing 1,1 percentage points) (see Table B).

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

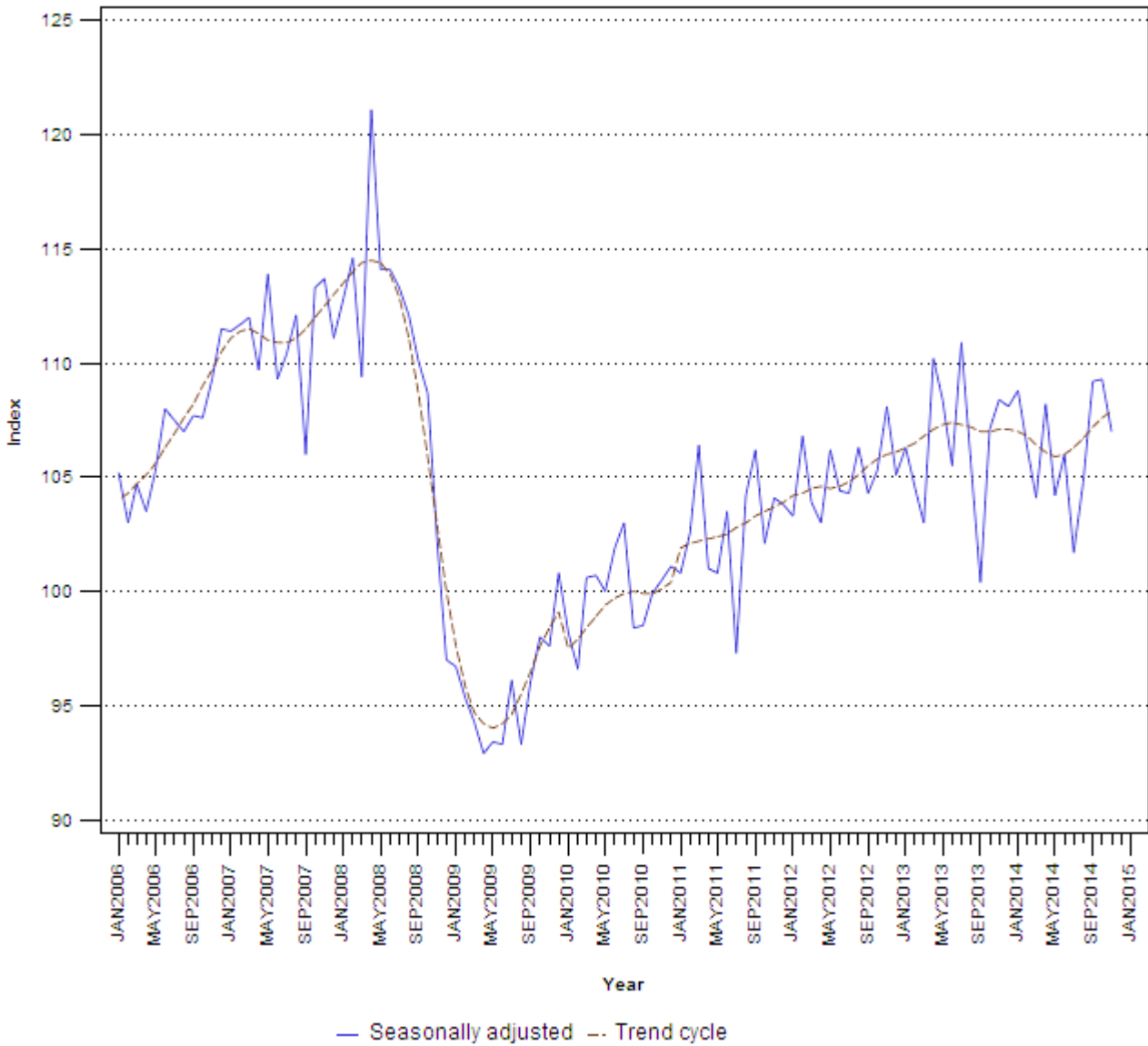
**Base: 2010=100**

Manufacturing divisions and major groups	Weights 2011	Average seasonally adjusted production index for June to August 2014	Average seasonally adjusted production index for September to November 2014	Quarterly % change of September to November 2014 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>23,8</b>	<b>109,7</b>	<b>110,5</b>	<b>0,7</b>	<b>0,2</b>
-Meat, fish, fruit, etc.	5,2	115,4	115,7	0,3	0,0
-Dairy products	2,3	105,0	109,0	3,8	0,1
-Grain mill products	2,8	106,0	102,1	-3,7	-0,1
-Other food products	7,1	104,3	106,4	2,0	0,1
-Beverages	6,4	114,4	114,8	0,3	0,0
<b>Textiles, clothing, leather and footwear</b>	<b>2,9</b>	<b>92,9</b>	<b>99,7</b>	<b>7,3</b>	<b>0,2</b>
-Textiles	1,2	83,5	91,1	9,1	0,1
-Wearing apparel	1,1	96,5	101,2	4,9	0,0
-Leather and leather products	0,2	116,5	122,3	5,0	0,0
-Footwear	0,4	100,8	111,0	10,1	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,5</b>	<b>102,7</b>	<b>103,7</b>	<b>1,0</b>	<b>0,1</b>
-Wood and products of wood	2,6	103,5	107,1	3,5	0,1
-Paper and paper products	3,3	100,5	103,0	2,5	0,1
-Publishing and printing	3,6	104,0	101,9	-2,0	-0,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,5</b>	<b>106,1</b>	<b>110,0</b>	<b>3,7</b>	<b>0,8</b>
-Coke, petroleum products and nuclear fuel	6,3	96,5	103,3	7,0	0,4
-Basic chemicals	4,8	113,7	113,1	-0,5	0,0
-Other chemical products	7,1	111,6	115,8	3,8	0,3
-Rubber products	1,2	100,0	110,7	10,7	0,1
-Plastic products	3,1	103,7	105,2	1,4	0,0
<b>Glass and non-metallic mineral products</b>	<b>4,4</b>	<b>99,1</b>	<b>100,2</b>	<b>1,1</b>	<b>0,0</b>
-Glass and glass products	0,9	88,1	88,5	0,5	0,0
-Non-metallic mineral products	3,5	101,9	103,1	1,2	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,4</b>	<b>99,2</b>	<b>104,7</b>	<b>5,5</b>	<b>1,1</b>
-Basic iron and steel products	4,7	93,5	96,1	2,8	0,1
-Basic precious, non-ferrous metal products	3,5	100,7	101,0	0,3	0,0
-Fabricated metal products	6,1	101,1	108,7	7,5	0,4
-Machinery and equipment	6,1	100,9	109,5	8,5	0,5
<b>Electrical machinery</b>	<b>2,4</b>	<b>98,1</b>	<b>104,9</b>	<b>6,9</b>	<b>0,2</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,4</b>	<b>133,5</b>	<b>145,1</b>	<b>8,7</b>	<b>0,2</b>
-Radio, television and communication apparatus	0,9	156,3	172,1	10,1	0,1
-Professional equipment	0,6	98,4	103,3	5,0	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,6</b>	<b>102,2</b>	<b>119,3</b>	<b>16,7</b>	<b>1,4</b>
-Motor vehicles	3,9	118,7	147,2	24,0	1,1
-Bodies for motor vehicles, trailers and semi-trailers	0,5	104,1	113,8	9,3	0,0
-Parts and accessories	3,0	87,4	93,2	6,6	0,2
-Other transport equipment	1,2	86,0	98,1	14,1	0,1
<b>Furniture and other manufacturing division</b>	<b>4,1</b>	<b>99,6</b>	<b>100,8</b>	<b>1,2</b>	<b>0,0</b>
-Furniture	1,1	114,8	111,7	-2,7	0,0
-Other manufacturing groups	3,0	94,4	97,0	2,8	0,1
<b>Total</b>	<b>100,0</b>	<b>104,2</b>	<b>108,5</b>	<b>4,1</b>	<b>4,1</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 – 2014**

**Base: 2010=100**



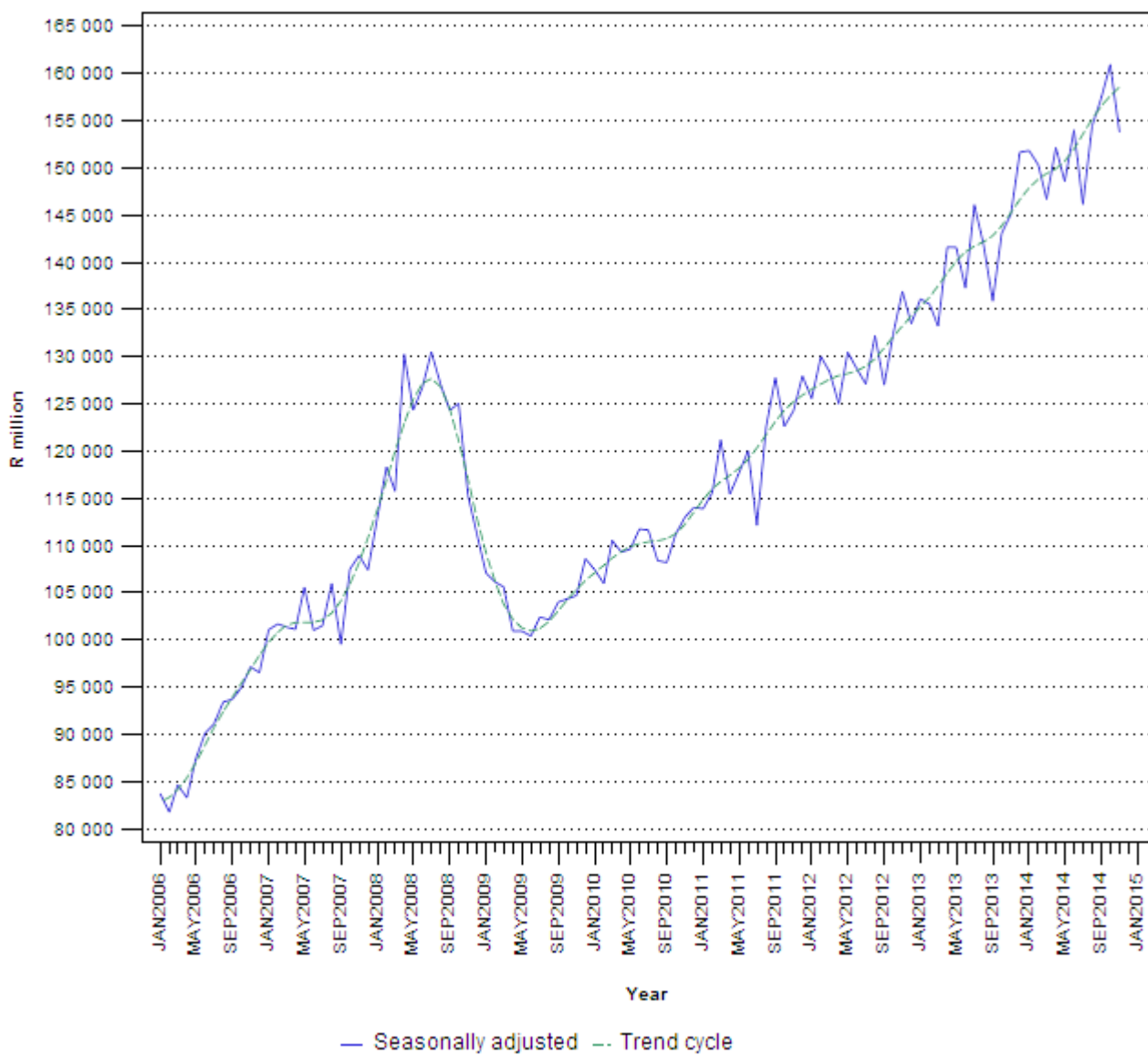
**Seasonally adjusted sales of manufactured products (at current prices) increased by 3,9% (R17 565 million) in the three months ended November 2014 compared with the previous three months.**

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 (6,7% or R6 463 million) and motor vehicles, parts and accessories and other transport equipment (9,6% or R5 268 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 June to August 2014	Seasonally adjusted sales September to November 2014	% change between June to August 2014 and September to November 2014	Difference in seasonally adjusted sales of manufacturing divisions between June to August 2014 and September to November 2014
	R'000	R'000	%	R'000
<b>Food and beverages</b>	<b>98 612 735</b>	<b>98 810 071</b>	<b>0,2</b>	<b>197 336</b>
-Food and food products	71 588 135	71 323 031	-0,4	-265 104
-Beverages	27 024 600	27 487 039	1,7	462 439
<b>Textiles, clothing, leather and footwear</b>	<b>12 048 815</b>	<b>12 773 113</b>	<b>6,0</b>	<b>724 298</b>
-Textiles	4 610 862	4 840 088	5,0	229 226
-Wearing apparel	4 677 525	5 037 857	7,7	360 332
-Leather and leather products	1 582 705	1 615 550	2,1	32 845
-Footwear	1 177 722	1 279 619	8,7	101 897
<b>Wood and wood products, paper, publishing and printing</b>	<b>33 736 340</b>	<b>34 506 299</b>	<b>2,3</b>	<b>769 959</b>
-Wood and products of wood	7 127 478	7 387 648	3,7	260 170
-Paper and paper products	14 929 982	15 534 250	4,0	604 268
-Publishing and printing	11 678 881	11 584 401	-0,8	-94 480
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>111 715 928</b>	<b>113 661 494</b>	<b>1,7</b>	<b>1 945 566</b>
-Coke, petroleum products and nuclear fuel	45 600 685	45 274 247	-0,7	-326 438
-Basic chemicals	23 848 586	24 546 837	2,9	698 251
-Other chemical products	24 972 261	25 879 052	3,6	906 791
-Rubber products	4 101 768	4 494 236	9,6	392 468
-Plastic products	13 192 628	13 467 121	2,1	274 493
<b>Glass and non-metallic mineral products</b>	<b>13 986 911</b>	<b>13 985 368</b>	<b>0,0</b>	<b>-1 543</b>
-Glass and glass products	2 344 902	2 349 954	0,2	5 052
-Non-metallic mineral products	11 642 008	11 635 413	-0,1	-6 595
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>96 948 510</b>	<b>103 411 838</b>	<b>6,7</b>	<b>6 463 328</b>
-Basic iron and steel products	29 749 060	31 417 765	5,6	1 668 705
-Basic precious, non-ferrous metal products	21 878 134	22 455 719	2,6	577 585
-Fabricated metal products	22 155 221	24 097 883	8,8	1 942 662
-Machinery and equipment	23 166 094	25 440 469	9,8	2 274 375
<b>Electrical machinery</b>	<b>12 699 707</b>	<b>13 900 144</b>	<b>9,5</b>	<b>1 200 437</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>4 740 823</b>	<b>5 374 521</b>	<b>13,4</b>	<b>633 698</b>
-Radio, television and communication apparatus	2 862 356	3 392 960	18,5	530 604
-Professional equipment	1 878 468	1 981 561	5,5	103 093
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>54 897 715</b>	<b>60 165 683</b>	<b>9,6</b>	<b>5 267 968</b>
-Motor vehicles, trailers, parts and accessories	50 011 179	54 492 879	9,0	4 481 700
-Other transport equipment	4 886 535	5 672 803	16,1	786 268
<b>Furniture and other manufacturing division</b>	<b>15 195 334</b>	<b>15 559 523</b>	<b>2,4</b>	<b>364 189</b>
-Furniture	3 945 507	3 838 901	-2,7	-106 606
-Other manufacturing groups	11 249 825	11 720 622	4,2	470 797
<b>Total</b>	<b>454 582 816</b>	<b>472 148 051</b>	<b>3,9</b>	<b>17 565 235</b>

**Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2014**



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## Detailed results

**Table 1 – Total index of the physical volume of manufacturing production: 2008 – 2014**

**Base: 2010=100**

Month	2008	2009	2010	2011	2012	2013	2014
Jan	97,1	82,7	84,5	86,7	89,3	92,3	94,6
Feb	109,4	91,1	92,2	98,4	102,7	100,7	102,3
Mar	113,1	97,6	103,8	109,3	106,6	104,8	105,8
Apr	112,8	86,6	93,4	93,4	95,1	102,0	100,1
May	115,4	94,2	100,6	101,6	107,1	109,6	105,3
Jun	115,7	94,5	102,9	104,2	104,9	105,6	105,8
Jul	116,0	98,2	105,3	98,9	105,8	111,9	102,7
Aug	115,8	96,3	101,6	107,8	110,2	109,6	108,9
Sep	114,4	99,9	102,2	110,4	108,0	103,9	1/ 112,9
Oct	120,8	108,4	110,3	112,9	116,6	119,0	1/ 121,7
Nov	113,7	107,9	112,2	116,6	121,0	121,1	1/ 119,5
Dec	86,3	89,2	91,0	93,5	94,5	97,3	
Year	<b>110,9</b>	<b>95,6</b>	<b>100,0</b>	<b>102,8</b>	<b>105,2</b>	<b>106,5</b>	

1/ Preliminary.

**Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2008 – 2014**

**2/**

Month	2008	2009	2010	2011	2012	2013	2014
Jan	0,7	-14,8	2,2	2,6	3,0	3,4	2,5
Feb	2,5	-16,7	1,2	6,7	4,4	-1,9	1,6
Mar	-2,2	-13,7	6,4	5,3	-2,5	-1,7	1,0
Apr	9,9	-23,2	7,9	0,0	1,8	7,3	-1,9
May	0,3	-18,4	6,8	1,0	5,4	2,3	-3,9
Jun	4,5	-18,3	8,9	1,3	0,7	0,7	0,2
Jul	2,6	-15,3	7,2	-6,1	7,0	5,8	-8,2
Aug	-0,3	-16,8	5,5	6,1	2,2	-0,5	-0,6
Sep	3,9	-12,7	2,3	8,0	-2,2	-3,8	8,7
Oct	-4,1	-10,3	1,8	2,4	3,3	2,1	2,3
Nov	-9,7	-5,1	4,0	3,9	3,8	0,1	-1,3
Dec	-11,2	3,4	2,0	2,7	1,1	3,0	
Year	<b>-0,4</b>	<b>-13,8</b>	<b>4,6</b>	<b>2,8</b>	<b>2,3</b>	<b>1,2</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: 2008 – 2014**

**Base: 2010=100**

Month	2008	2009	2010	2011	2012	2013	2014
Jan	112,8	96,7	98,2	100,8	103,3	106,3	108,8
Feb	114,6	95,3	96,6	102,6	106,8	104,5	106,2
Mar	109,4	94,3	100,6	106,4	103,9	103,0	104,1
Apr	121,1	92,9	100,7	101,0	103,0	110,2	108,2
May	114,1	93,4	100,0	100,8	106,2	108,4	104,2
Jun	114,1	93,3	101,9	103,5	104,4	105,5	106,0
Jul	113,3	96,1	103,0	97,3	104,3	110,9	101,7
Aug	112,1	93,3	98,4	104,2	106,3	105,6	104,8
Sep	110,1	96,1	98,5	106,2	104,3	100,4	109,2
Oct	108,7	98,0	99,9	102,1	105,3	107,1	109,3
Nov	102,2	97,6	100,5	104,1	108,1	108,4	107,0
Dec	97,0	100,8	101,1	103,8	105,1	108,1	



**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 2011	Average for 2013	Actual indices			Seasonally adjusted indices		
			Nov. 2013	1/ Oct. 2014	1/ Nov. 2014	Nov. 2013	Oct. 2014	Nov. 2014
<b>Food and beverages</b>	<b>23,8</b>	<b>108,0</b>	<b>120,8</b>	<b>122,0</b>	<b>118,7</b>	<b>109,0</b>	<b>110,7</b>	<b>107,2</b>
-Meat, fish, fruit, etc.	5,2	109,5	123,8	120,7	121,8	114,0	116,0	112,3
-Dairy products	2,3	106,0	111,6	124,1	117,8	101,5	109,4	107,2
-Grain mill products	2,8	107,5	115,7	109,2	108,0	107,5	102,7	100,2
-Other food products	7,1	105,0	114,4	117,3	112,9	105,5	104,1	104,1
-Beverages	6,4	111,0	130,9	132,9	127,6	112,2	117,5	109,6
<b>Textiles, clothing, leather and footwear</b>	<b>2,9</b>	<b>95,2</b>	<b>115,3</b>	<b>118,4</b>	<b>117,9</b>	<b>96,3</b>	<b>101,0</b>	<b>98,7</b>
-Textiles	0,8	82,8	89,6	96,5	99,7	80,2	86,2	89,5
-Other textile products	0,4	95,1	116,3	115,1	114,7	96,2	100,3	95,1
-Knitted, crocheted articles	0,1	65,9	74,3	61,0	67,1	66,5	57,1	59,5
-Wearing apparel	1,0	100,9	124,7	129,2	129,0	100,0	108,5	103,5
-Leather and leather products	0,2	120,3	148,5	130,1	140,7	129,1	119,4	122,4
-Footwear	0,4	101,5	136,6	145,1	130,6	110,7	113,6	106,1
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,5</b>	<b>103,6</b>	<b>116,4</b>	<b>117,1</b>	<b>119,9</b>	<b>99,6</b>	<b>103,8</b>	<b>102,6</b>
-Sawmilling and planing of wood	0,8	108,4	127,1	133,3	126,0	113,1	116,8	111,7
-Products of wood	1,8	98,7	113,8	121,5	114,9	95,8	104,8	96,8
-Paper and paper products	3,3	100,0	108,8	108,8	114,7	99,2	103,3	104,6
-Publishing	1,4	116,5	134,3	124,9	129,6	106,7	105,1	102,7
-Printing, recorded media	2,2	102,6	114,0	114,7	123,1	93,2	98,0	101,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,5</b>	<b>108,6</b>	<b>121,4</b>	<b>121,8</b>	<b>122,5</b>	<b>109,9</b>	<b>111,8</b>	<b>110,8</b>
-Coke, petroleum products and nuclear fuel	6,3	101,9	106,8	104,4	108,7	109,5	104,4	110,8
-Basic chemicals	4,8	108,7	123,3	126,7	131,4	106,7	115,2	113,7
-Other chemical products	7,1	114,5	130,1	134,1	127,2	114,0	118,8	111,6
-Rubber products	1,2	113,0	124,3	120,4	128,5	109,3	113,3	113,4
-Plastic products	3,1	107,4	127,3	122,0	123,8	106,4	105,4	103,5
<b>Glass and non-metallic mineral products</b>	<b>4,4</b>	<b>105,5</b>	<b>119,6</b>	<b>117,0</b>	<b>111,5</b>	<b>105,2</b>	<b>102,0</b>	<b>98,3</b>
-Glass and glass products	0,9	105,3	114,1	108,7	104,5	96,0	90,5	88,4
-Non-metallic mineral products	3,5	105,6	121,0	119,1	113,3	107,6	104,9	100,7
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,4</b>	<b>105,3</b>	<b>115,4</b>	<b>116,0</b>	<b>114,1</b>	<b>104,9</b>	<b>104,8</b>	<b>103,8</b>
-Basic iron and steel products	4,7	94,8	95,5	100,1	97,8	94,9	96,7	96,9
-Non-ferrous metal products	3,5	108,4	103,9	110,3	100,7	102,6	101,8	99,6
-Structural metal products	2,2	88,8	109,3	97,2	93,1	94,1	83,6	80,3
-Other fabricated metal products	3,9	119,5	142,9	140,0	138,2	120,9	122,0	117,3
-General purpose machinery	2,4	100,4	106,5	103,6	96,3	94,0	91,1	85,2
-Special purpose machinery	3,0	114,4	131,8	137,5	149,3	116,4	123,3	131,2
-Household appliances	0,7	113,6	134,2	128,9	133,8	117,6	113,8	117,2
<b>Electrical machinery</b>	<b>2,4</b>	<b>104,8</b>	<b>119,8</b>	<b>116,9</b>	<b>114,9</b>	<b>106,5</b>	<b>107,8</b>	<b>102,5</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,4</b>	<b>127,1</b>	<b>158,8</b>	<b>167,8</b>	<b>171,9</b>	<b>134,5</b>	<b>146,9</b>	<b>145,2</b>
-Radio, television and communication apparatus	0,9	141,2	186,0	204,1	209,7	151,5	174,2	171,1
-Professional equipment	0,5	105,2	116,7	111,6	113,4	108,2	104,6	105,2
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,6</b>	<b>109,4</b>	<b>137,0</b>	<b>135,5</b>	<b>124,5</b>	<b>126,7</b>	<b>120,0</b>	<b>115,9</b>
-Motor vehicles	3,9	124,6	170,2	168,6	153,5	160,9	145,7	146,8
-Bodies for motor vehicles, trailers and semi-trailers	0,5	111,2	135,4	141,1	129,6	114,7	116,8	109,5
-Parts and accessories	3,0	94,8	106,1	102,7	98,3	95,4	97,0	88,7
-Other transport equipment	1,2	96,8	108,6	109,1	95,2	100,7	96,8	87,9
<b>Furniture and other manufacturing division</b>	<b>4,1</b>	<b>94,8</b>	<b>120,0</b>	<b>122,3</b>	<b>116,4</b>	<b>98,8</b>	<b>101,5</b>	<b>96,2</b>
-Furniture	1,1	110,6	157,6	144,3	141,3	120,7	111,1	108,3
-Other manufacturing groups	3,0	89,3	106,9	114,6	107,7	91,2	98,1	92,0
<b>Total</b>	<b>100,0</b>	<b>106,5</b>	<b>121,1</b>	<b>121,7</b>	<b>119,5</b>	<b>108,4</b>	<b>109,3</b>	<b>107,0</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 2011	Average for 2013	Actual indices			Seasonally adjusted indices		
			Nov. 2013	1/ Nov. 2014	% change between Nov. 2013 and Nov. 2014	Oct. 2014	Nov. 2014	% change between Oct. and Nov. 2014
<b>Food and beverages</b>	<b>23,8</b>	<b>108,0</b>	<b>120,8</b>	<b>118,7</b>	<b>-1,7</b>	<b>110,7</b>	<b>107,2</b>	<b>-3,2</b>
-Meat, fish, fruit, etc.	5,2	109,5	123,8	121,8	-1,6	116,0	112,3	-3,2
-Dairy products	2,3	106,0	111,6	117,8	5,6	109,4	107,2	-2,0
-Grain mill products	2,8	107,5	115,7	108,0	-6,7	102,7	100,2	-2,4
-Other food products	7,1	105,0	114,4	112,9	-1,3	104,1	104,1	0,0
-Beverages	6,4	111,0	130,9	127,6	-2,5	117,5	109,6	-6,7
<b>Textiles, clothing, leather and footwear</b>	<b>2,9</b>	<b>95,2</b>	<b>115,3</b>	<b>117,9</b>	<b>2,3</b>	<b>101,0</b>	<b>98,7</b>	<b>-2,3</b>
-Textiles	0,8	82,8	89,6	99,7	11,3	86,2	89,5	3,8
-Other textile products	0,4	95,1	116,3	114,7	-1,4	100,3	95,1	-5,2
-Knitted, crocheted articles	0,1	65,9	74,3	67,1	-9,7	57,1	59,5	4,2
-Wearing apparel	1,0	100,9	124,7	129,0	3,4	108,5	103,5	-4,6
-Leather and leather products	0,2	120,3	148,5	140,7	-5,3	119,4	122,4	2,5
-Footwear	0,4	101,5	136,6	130,6	-4,4	113,6	106,1	-6,6
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,5</b>	<b>103,6</b>	<b>116,4</b>	<b>119,9</b>	<b>3,0</b>	<b>103,8</b>	<b>102,6</b>	<b>-1,2</b>
-Sawmilling and planing of wood	0,8	108,4	127,1	126,0	-0,9	116,8	111,7	-4,4
-Products of wood	1,8	98,7	113,8	114,9	1,0	104,8	96,8	-7,6
-Paper and paper products	3,3	100,0	108,8	114,7	5,4	103,3	104,6	1,3
-Publishing	1,4	116,5	134,3	129,6	-3,5	105,1	102,7	-2,3
-Printing, recorded media	2,2	102,6	114,0	123,1	8,0	98,0	101,0	3,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,5</b>	<b>108,6</b>	<b>121,4</b>	<b>122,5</b>	<b>0,9</b>	<b>111,8</b>	<b>110,8</b>	<b>-0,9</b>
-Coke, petroleum products and nuclear fuel	6,3	101,9	106,8	108,7	1,8	104,4	110,8	6,1
-Basic chemicals	4,8	108,7	123,3	131,4	6,6	115,2	113,7	-1,3
-Other chemical products	7,1	114,5	130,1	127,2	-2,2	118,8	111,6	-6,1
-Rubber products	1,2	113,0	124,3	128,5	3,4	113,3	113,4	0,1
-Plastic products	3,1	107,4	127,3	123,8	-2,7	105,4	103,5	-1,8
<b>Glass and non-metallic mineral products</b>	<b>4,4</b>	<b>105,5</b>	<b>119,6</b>	<b>111,5</b>	<b>-6,8</b>	<b>102,0</b>	<b>98,3</b>	<b>-3,6</b>
-Glass and glass products	0,9	105,3	114,1	104,5	-8,4	90,5	88,4	-2,3
-Non-metallic mineral products	3,5	105,6	121,0	113,3	-6,4	104,9	100,7	-4,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,4</b>	<b>105,3</b>	<b>115,4</b>	<b>114,1</b>	<b>-1,1</b>	<b>104,8</b>	<b>103,8</b>	<b>-1,0</b>
-Basic iron and steel products	4,7	94,8	95,5	97,8	2,4	96,7	96,9	0,2
-Non-ferrous metal products	3,5	108,4	103,9	100,7	-3,1	101,8	99,6	-2,2
-Structural metal products	2,2	88,8	109,3	93,1	-14,8	83,6	80,3	-3,9
-Other fabricated metal products	3,9	119,5	142,9	138,2	-3,3	122,0	117,3	-3,9
-General purpose machinery	2,4	100,4	106,5	96,3	-9,6	91,1	85,2	-6,5
-Special purpose machinery	3,0	114,4	131,8	149,3	13,3	123,3	131,2	6,4
-Household appliances	0,7	113,6	134,2	133,8	-0,3	113,8	117,2	3,0
<b>Electrical machinery</b>	<b>2,4</b>	<b>104,8</b>	<b>119,8</b>	<b>114,9</b>	<b>-4,1</b>	<b>107,8</b>	<b>102,5</b>	<b>-4,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,4</b>	<b>127,1</b>	<b>158,8</b>	<b>171,9</b>	<b>8,2</b>	<b>146,9</b>	<b>145,2</b>	<b>-1,2</b>
-Radio, television and communication apparatus	0,9	141,2	186,0	209,7	12,7	174,2	171,1	-1,8
-Professional equipment	0,5	105,2	116,7	113,4	-2,8	104,6	105,2	0,6
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,6</b>	<b>109,4</b>	<b>137,0</b>	<b>124,5</b>	<b>-9,1</b>	<b>120,0</b>	<b>115,9</b>	<b>-3,4</b>
-Motor vehicles	3,9	124,6	170,2	153,5	-9,8	145,7	146,8	0,8
-Bodies for motor vehicles, trailers and semi-trailers	0,5	111,2	135,4	129,6	-4,3	116,8	109,5	-6,3
-Parts and accessories	3,0	94,8	106,1	98,3	-7,4	97,0	88,7	-8,6
-Other transport equipment	1,2	96,8	108,6	95,2	-12,3	96,8	87,9	-9,2
<b>Furniture and other manufacturing division</b>	<b>4,1</b>	<b>94,8</b>	<b>120,0</b>	<b>116,4</b>	<b>-3,0</b>	<b>101,5</b>	<b>96,2</b>	<b>-5,2</b>
-Furniture	1,1	110,6	157,6	141,3	-10,3	111,1	108,3	-2,5
-Other manufacturing groups	3,0	89,3	106,9	107,7	0,7	98,1	92,0	-6,2
<b>Total</b>	<b>100,0</b>	<b>106,5</b>	<b>121,1</b>	<b>119,5</b>	<b>-1,3</b>	<b>109,3</b>	<b>107,0</b>	<b>-2,1</b>

1/ Preliminary.

**Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2008 – 2014**

Month	2008	2009	2010	2011	2012	2013	2014
Jan	94 742 175	89 411 709	90 043 639	95 914 260	107 125 725	116 496 690	130 317 527
Feb	112 667 149	101 389 780	101 802 931	111 504 610	125 726 110	131 666 953	146 262 502
Mar	119 658 956	109 741 940	115 312 858	126 114 741	133 201 183	137 659 315	151 399 659
Apr	121 578 756	93 988 030	101 813 278	108 002 905	117 398 378	133 362 802	143 701 281
May	124 921 581	100 539 504	109 347 265	117 550 156	130 161 819	141 170 742	148 218 032
Jun	129 712 325	102 182 642	113 714 894	122 066 418	130 686 381	139 191 581	156 152 997
Jul	133 522 456	103 852 587	112 863 459	112 900 609	127 523 717	146 281 118	146 085 440
Aug	131 306 310	104 831 059	110 602 573	124 733 688	134 271 194	143 904 416	156 424 723
Sep	130 807 226	109 100 206	113 246 712	133 013 706	131 703 059	140 281 228	1/ 162 369 229
Oct	137 573 799	114 516 711	121 671 719	133 668 047	144 305 886	156 176 718	1/ 175 624 754
Nov	128 271 568	116 693 241	126 495 305	139 068 350	153 074 012	162 115 203	1/ 171 858 782
Dec	100 934 476	99 259 368	104 538 782	117 666 432	123 592 966	140 400 601	
Year	<b>1 465 696 777</b>	<b>1 245 506 777</b>	<b>1 321 453 415</b>	<b>1 442 203 922</b>	<b>1 558 770 430</b>	<b>1 688 707 367</b>	

1/ Preliminary.

**Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2008 – 2014** 2/

Month	2008	2009	2010	2011	2012	2013	2014
Jan	11,9	-5,6	0,7	6,5	11,7	8,7	11,9
Feb	16,1	-10,0	0,4	9,5	12,8	4,7	11,1
Mar	14,4	-8,3	5,1	9,4	5,6	3,3	10,0
Apr	28,7	-22,7	8,3	6,1	8,7	13,6	7,8
May	17,9	-19,5	8,8	7,5	10,7	8,5	5,0
Jun	26,0	-21,2	11,3	7,3	7,1	6,5	12,2
Jul	29,0	-22,2	8,7	0,0	13,0	14,7	-0,1
Aug	20,0	-20,2	5,5	12,8	7,6	7,2	8,7
Sep	24,8	-16,6	3,8	17,5	-1,0	6,5	15,7
Oct	16,3	-16,8	6,2	9,9	8,0	8,2	12,5
Nov	5,9	-9,0	8,4	9,9	10,1	5,9	6,0
Dec	4,9	-1,7	5,3	12,6	5,0	13,6	
Year	<b>17,9</b>	<b>-15,0</b>	<b>6,1</b>	<b>9,1</b>	<b>8,1</b>	<b>8,3</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): 2008 – 2014**

Month	2008	2009	2010	2011	2012	2013	2014
Jan	112 854 946	107 058 103	107 440 784	113 876 304	125 569 917	136 128 854	151 838 131
Feb	118 299 800	106 104 061	105 963 691	115 608 771	130 007 407	135 535 247	150 323 037
Mar	115 760 215	105 609 225	110 521 347	121 173 130	128 406 907	133 235 868	146 694 311
Apr	130 237 812	100 913 506	109 289 252	115 436 698	125 019 590	141 600 893	152 143 008
May	124 327 127	100 924 924	109 597 784	117 629 407	130 471 068	141 584 890	148 573 230
Jun	126 737 595	100 400 051	111 749 426	119 997 673	128 708 546	137 278 233	154 000 390
Jul	130 512 395	102 399 298	111 605 245	112 118 101	127 102 946	146 085 016	146 156 474
Aug	127 079 737	102 133 921	108 372 454	122 599 930	132 213 272	141 859 031	154 425 952
Sep	124 328 788	103 989 697	108 193 545	127 751 338	127 016 958	135 902 380	157 429 079
Oct	125 039 246	104 322 062	111 217 634	122 609 346	132 379 872	143 063 413	160 951 860
Nov	115 339 662	104 690 866	112 997 864	124 275 171	136 921 328	145 101 947	153 767 112
Dec	111 225 697	108 579 728	114 016 373	127 942 757	133 501 041	151 658 311	

**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 2013	Actual values			Seasonally adjusted values		
		Nov. 2013	1/ Oct. 2014	1/ Nov. 2014	Nov. 2013	Oct. 2014	Nov. 2014
<b>Food and beverages</b>	<b>358 787 605</b>	<b>34 287 248</b>	<b>36 131 242</b>	<b>35 653 355</b>	<b>30 683 183</b>	<b>33 145 395</b>	<b>31 940 904</b>
-Meat, fish, fruit, etc.	93 676 050	9 122 345	9 422 140	9 304 081	8 266 142	8 715 216	8 437 551
-Dairy products	30 433 389	2 712 029	3 324 061	3 183 667	2 524 329	3 005 169	2 973 736
-Grain mill products	60 913 071	5 485 779	5 472 439	5 359 478	5 137 038	5 167 769	5 027 373
-Other food products	74 241 039	7 430 212	7 575 361	7 882 940	6 424 366	6 930 935	6 819 213
-Beverages	99 524 056	9 536 883	10 337 241	9 923 189	8 331 308	9 326 305	8 683 031
<b>Textiles, clothing, leather and footwear</b>	<b>45 890 303</b>	<b>4 813 590</b>	<b>4 973 936</b>	<b>5 061 213</b>	<b>3 944 340</b>	<b>4 329 486</b>	<b>4 143 391</b>
-Textiles	5 646 925	541 414	646 700	625 051	476 711	556 531	550 974
-Other textile products	11 512 078	1 186 121	1 236 449	1 212 077	982 355	1 095 520	1 003 399
-Knitted, crocheted articles	2 614 746	260 648	212 813	243 500	224 818	207 875	208 400
-Wearing apparel	15 631 991	1 682 094	1 727 149	1 836 133	1 339 526	1 472 750	1 463 530
-Leather and leather products	6 142 555	620 307	591 908	595 481	554 736	544 402	532 436
-Footwear	4 342 008	523 006	558 917	548 971	366 194	452 409	384 652
<b>Wood and wood products, paper, publishing and printing</b>	<b>128 298 495</b>	<b>12 203 974</b>	<b>12 754 081</b>	<b>13 389 221</b>	<b>10 433 483</b>	<b>11 502 467</b>	<b>11 446 761</b>
-Sawmilling and planing of wood	9 846 071	940 007	1 034 167	983 599	863 757	904 192	901 588
-Products of wood	17 300 181	1 712 991	1 827 951	1 747 857	1 441 193	1 573 658	1 471 058
-Paper and paper products	55 755 255	5 148 851	5 349 134	5 797 116	4 600 859	5 231 716	5 176 186
-Publishing	20 848 245	2 055 157	1 979 115	2 138 909	1 623 422	1 651 904	1 680 597
-Printing, recorded media	24 548 743	2 346 968	2 563 714	2 721 740	1 904 252	2 140 997	2 217 332
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>423 519 162</b>	<b>39 590 282</b>	<b>42 885 131</b>	<b>42 521 940</b>	<b>36 450 141</b>	<b>39 456 237</b>	<b>38 911 971</b>
-Coke, petroleum products and nuclear fuel	179 277 670	15 474 582	16 365 271	16 170 647	15 780 752	16 233 648	16 289 167
-Basic chemicals	84 434 772	8 445 605	9 718 623	9 629 764	7 246 187	8 368 679	8 254 526
-Other chemical products	94 393 875	9 162 698	9 774 865	9 835 338	7 884 349	8 742 163	8 487 100
-Rubber products	16 107 981	1 527 488	1 621 167	1 696 412	1 360 694	1 532 107	1 520 039
-Plastic products	49 304 864	4 979 909	5 405 205	5 189 779	4 178 159	4 579 639	4 361 138
<b>Glass and non-metallic mineral products</b>	<b>54 410 554</b>	<b>5 377 285</b>	<b>5 521 228</b>	<b>5 263 183</b>	<b>4 567 247</b>	<b>4 756 807</b>	<b>4 479 157</b>
-Glass and glass products	9 847 833	1 006 160	972 829	986 754	772 987	802 403	765 584
-Non-metallic mineral products	44 562 721	4 371 125	4 548 399	4 276 429	3 794 259	3 954 404	3 713 572
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>362 211 704</b>	<b>34 757 825</b>	<b>37 982 236</b>	<b>36 705 723</b>	<b>31 067 920</b>	<b>35 282 742</b>	<b>32 818 387</b>
-Basic iron and steel products	107 121 206	9 699 240	11 050 261	10 028 811	9 068 851	10 941 560	9 365 874
-Non-ferrous metal products	75 898 020	7 192 461	7 988 331	8 085 908	6 541 827	7 545 020	7 344 814
-Structural metal products	33 623 084	3 532 664	3 304 985	3 123 172	3 010 787	2 903 451	2 653 274
-Other fabricated metal products	56 645 754	5 721 849	5 991 418	5 811 362	4 802 564	5 288 330	4 891 625
-General purpose machinery	34 285 217	3 176 945	3 331 048	3 138 497	2 801 791	2 895 671	2 777 928
-Special purpose machinery	45 235 936	4 504 882	5 317 185	5 485 845	4 031 107	4 833 105	4 885 501
-Household appliances	9 402 487	929 784	999 008	1 032 128	810 993	875 605	899 369
<b>Electrical machinery</b>	<b>50 394 196</b>	<b>4 893 436</b>	<b>5 043 660</b>	<b>4 938 712</b>	<b>4 343 363</b>	<b>4 706 200</b>	<b>4 391 991</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>18 121 946</b>	<b>1 850 338</b>	<b>1 985 387</b>	<b>2 018 496</b>	<b>1 637 329</b>	<b>1 787 522</b>	<b>1 786 039</b>
-Radio, television and communication apparatus	10 394 619	1 137 199	1 303 363	1 294 414	970 853	1 129 165	1 110 345
-Professional equipment	7 727 327	713 139	682 024	724 082	666 476	658 357	675 694
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>191 772 877</b>	<b>19 144 328</b>	<b>22 667 998</b>	<b>20 846 508</b>	<b>17 330 306</b>	<b>20 846 337</b>	<b>18 939 067</b>
-Motor vehicles	106 642 282	11 038 353	13 209 195	11 813 814	10 048 864	12 308 229	10 813 312
-Bodies for motor vehicles, trailers and semi-trailers	8 714 712	905 552	966 168	927 053	753 994	807 593	771 111
-Parts and accessories	56 149 287	5 395 366	6 481 789	6 289 122	4 818 341	5 932 803	5 638 558
-Other transport equipment	20 266 596	1 805 057	2 010 846	1 816 519	1 709 107	1 797 711	1 716 086
<b>Furniture and other manufacturing division</b>	<b>55 300 525</b>	<b>5 196 897</b>	<b>5 679 855</b>	<b>5 460 431</b>	<b>4 644 636</b>	<b>5 138 669</b>	<b>4 909 446</b>
-Furniture	14 272 983	1 703 545	1 688 064	1 660 162	1 264 994	1 288 309	1 232 582
-Other manufacturing groups	41 027 542	3 493 352	3 991 791	3 800 269	3 379 642	3 850 359	3 676 864
<b>Total</b>	<b>1 688 707 367</b>	<b>162 115 203</b>	<b>175 624 754</b>	<b>171 858 782</b>	<b>145 101 947</b>	<b>160 951 860</b>	<b>153 767 112</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 2013	Actual values			Seasonally adjusted values		
		Nov. 2013	1/ Nov. 2014	% change between Nov. 2013 and Nov. 2014	Oct. 2014	Nov. 2014	% change between Oct. and Nov. 2014
<b>Food and beverages</b>	<b>358 787 605</b>	<b>34 287 248</b>	<b>35 653 355</b>	<b>4,0</b>	<b>33 145 395</b>	<b>31 940 904</b>	<b>-3,6</b>
-Meat, fish, fruit, etc.	93 676 050	9 122 345	9 304 081	2,0	8 715 216	8 437 551	-3,2
-Dairy products	30 433 389	2 712 029	3 183 667	17,4	3 005 169	2 973 736	-1,0
-Grain mill products	60 913 071	5 485 779	5 359 478	-2,3	5 167 769	5 027 373	-2,7
-Other food products	74 241 039	7 430 212	7 882 940	6,1	6 930 935	6 819 213	-1,6
-Beverages	99 524 056	9 536 883	9 923 189	4,1	9 326 305	8 683 031	-6,9
<b>Textiles, clothing, leather and footwear</b>	<b>45 890 303</b>	<b>4 813 590</b>	<b>5 061 213</b>	<b>5,1</b>	<b>4 329 486</b>	<b>4 143 391</b>	<b>-4,3</b>
-Textiles	5 646 925	541 414	625 051	15,4	556 531	550 974	-1,0
-Other textile products	11 512 078	1 186 121	1 212 077	2,2	1 095 520	1 003 399	-8,4
-Knitted, crocheted articles	2 614 746	260 648	243 500	-6,6	207 875	208 400	0,3
-Wearing apparel	15 631 991	1 682 094	1 836 133	9,2	1 472 750	1 463 530	-0,6
-Leather and leather products	6 142 555	620 307	595 481	-4,0	544 402	532 436	-2,2
-Footwear	4 342 008	523 006	548 971	5,0	452 409	384 652	-15,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>128 298 495</b>	<b>12 203 974</b>	<b>13 389 221</b>	<b>9,7</b>	<b>11 502 467</b>	<b>11 446 761</b>	<b>-0,5</b>
-Sawmilling and planing of wood	9 846 071	940 007	983 599	4,6	904 192	901 588	-0,3
-Products of wood	17 300 181	1 712 991	1 747 857	2,0	1 573 658	1 471 058	-6,5
-Paper and paper products	55 755 255	5 148 851	5 797 116	12,6	5 231 716	5 176 186	-1,1
-Publishing	20 848 245	2 055 157	2 138 909	4,1	1 651 904	1 680 597	1,7
-Printing, recorded media	24 548 743	2 346 968	2 721 740	16,0	2 140 997	2 217 332	3,6
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>423 519 162</b>	<b>39 590 282</b>	<b>42 521 940</b>	<b>7,4</b>	<b>39 456 237</b>	<b>38 911 971</b>	<b>-1,4</b>
-Coke, petroleum products and nuclear fuel	179 277 670	15 474 582	16 170 647	4,5	16 233 648	16 289 167	0,3
-Basic chemicals	84 434 772	8 445 605	9 629 764	14,0	8 368 679	8 254 526	-1,4
-Other chemical products	94 393 875	9 162 698	9 835 338	7,3	8 742 163	8 487 100	-2,9
-Rubber products	16 107 981	1 527 488	1 696 412	11,1	1 532 107	1 520 039	-0,8
-Plastic products	49 304 864	4 979 909	5 189 779	4,2	4 579 639	4 361 138	-4,8
<b>Glass and non-metallic mineral products</b>	<b>54 410 554</b>	<b>5 377 285</b>	<b>5 263 183</b>	<b>-2,1</b>	<b>4 756 807</b>	<b>4 479 157</b>	<b>-5,8</b>
-Glass and glass products	9 847 833	1 006 160	986 754	-1,9	802 403	765 584	-4,6
-Non-metallic mineral products	44 562 721	4 371 125	4 276 429	-2,2	3 954 404	3 713 572	-6,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>362 211 704</b>	<b>34 757 825</b>	<b>36 705 723</b>	<b>5,6</b>	<b>35 282 742</b>	<b>32 818 387</b>	<b>-7,0</b>
-Basic iron and steel products	107 121 206	9 699 240	10 028 811	3,4	10 941 560	9 365 874	-14,4
-Non-ferrous metal products	75 898 020	7 192 461	8 085 908	12,4	7 545 020	7 344 814	-2,7
-Structural metal products	33 623 084	3 532 664	3 123 172	-11,6	2 903 451	2 653 274	-8,6
-Other fabricated metal products	56 645 754	5 721 849	5 811 362	1,6	5 288 330	4 891 625	-7,5
-General purpose machinery	34 285 217	3 176 945	3 138 497	-1,2	2 895 671	2 777 928	-4,1
-Special purpose machinery	45 235 936	4 504 882	5 485 845	21,8	4 833 105	4 885 501	1,1
-Household appliances	9 402 487	929 784	1 032 128	11,0	875 605	899 369	2,7
<b>Electrical machinery</b>	<b>50 394 196</b>	<b>4 893 436</b>	<b>4 938 712</b>	<b>0,9</b>	<b>4 706 200</b>	<b>4 391 991</b>	<b>-6,7</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>18 121 946</b>	<b>1 850 338</b>	<b>2 018 496</b>	<b>9,1</b>	<b>1 787 522</b>	<b>1 786 039</b>	<b>-0,1</b>
-Radio, television and communication apparatus	10 394 619	1 137 199	1 294 414	13,8	1 129 165	1 110 345	-1,7
-Professional equipment	7 727 327	713 139	724 082	1,5	658 357	675 694	2,6
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>191 772 877</b>	<b>19 144 328</b>	<b>20 846 508</b>	<b>8,9</b>	<b>20 846 337</b>	<b>18 939 067</b>	<b>-9,1</b>
-Motor vehicles	106 642 282	11 038 353	11 813 814	7,0	12 308 229	10 813 312	-12,1
-Bodies for motor vehicles, trailers and semi-trailers	8 714 712	905 552	927 053	2,4	807 593	771 111	-4,5
-Parts and accessories	56 149 287	5 395 366	6 289 122	16,6	5 932 803	5 638 558	-5,0
-Other transport equipment	20 266 596	1 805 057	1 816 519	0,6	1 797 711	1 716 086	-4,5
<b>Furniture and other manufacturing division</b>	<b>55 300 525</b>	<b>5 196 897</b>	<b>5 460 431</b>	<b>5,1</b>	<b>5 138 669</b>	<b>4 909 446</b>	<b>-4,5</b>
-Furniture	14 272 983	1 703 545	1 660 162	-2,5	1 288 309	1 232 582	-4,3
-Other manufacturing groups	41 027 542	3 493 352	3 800 269	8,8	3 850 359	3 676 864	-4,5
<b>Total</b>	<b>1 688 707 367</b>	<b>162 115 203</b>	<b>171 858 782</b>	<b>6,0</b>	<b>160 951 860</b>	<b>153 767 112</b>	<b>-4,5</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 2011	Production indices (base: 2010=100)			Value of sales (R'000)		
		Sep. to Nov. 2013	Sep. to Nov. 2014	% change between Sep. to Nov. 2013 and Sep. to Nov. 2014	Sep. to Nov. 2013	Sep. to Nov. 2014	% change between Sep. to Nov. 2013 and Sep. to Nov. 2014
<b>Food and beverages</b>	<b>23,8</b>	<b>117,7</b>	<b>120,0</b>	<b>2,0</b>	<b>98 094 095</b>	<b>106 521 708</b>	<b>8,6</b>
-Meat, fish, fruit, etc.	5,2	117,2	121,7	3,8	25 830 137	28 081 718	8,7
-Dairy products	2,3	112,3	118,9	5,9	8 108 500	9 514 879	17,3
-Grain mill products	2,8	113,3	108,2	-4,5	16 152 995	16 281 772	0,8
-Other food products	7,1	116,7	117,2	0,4	20 647 208	22 636 263	9,6
-Beverages	6,4	123,1	127,1	3,2	27 355 255	30 007 076	9,7
<b>Textiles, clothing, leather and footwear</b>	<b>2,9</b>	<b>107,2</b>	<b>113,5</b>	<b>5,9</b>	<b>13 025 595</b>	<b>14 411 771</b>	<b>10,6</b>
-Textiles	0,8	88,9	95,9	7,9	1 569 838	1 842 574	17,4
-Other textile products	0,4	102,0	109,5	7,4	3 122 306	3 509 319	12,4
-Knitted, crocheted articles	0,1	71,0	61,0	-14,1	702 129	652 965	-7,0
-Wearing apparel	1,0	115,2	121,7	5,6	4 553 663	5 092 452	11,8
-Leather and leather products	0,2	137,7	130,9	-4,9	1 729 661	1 724 113	-0,3
-Footwear	0,4	123,3	134,8	9,3	1 347 998	1 590 348	18,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,5</b>	<b>116,1</b>	<b>116,8</b>	<b>0,6</b>	<b>36 480 116</b>	<b>38 744 081</b>	<b>6,2</b>
-Sawmilling and planing of wood	0,8	123,1	124,8	1,4	2 783 169	2 954 417	6,2
-Products of wood	1,8	111,2	117,9	6,0	4 988 792	5 327 731	6,8
-Paper and paper products	3,3	108,2	111,3	2,9	15 324 563	16 889 703	10,2
-Publishing	1,4	143,1	123,5	-13,7	6 584 515	5 931 709	-9,9
-Printing, recorded media	2,2	111,5	116,6	4,6	6 799 077	7 640 521	12,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,5</b>	<b>115,5</b>	<b>117,2</b>	<b>1,5</b>	<b>114 032 922</b>	<b>121 208 702</b>	<b>6,3</b>
-Coke, petroleum products and nuclear fuel	6,3	105,7	100,0	-5,4	45 126 015	44 720 526	-0,9
-Basic chemicals	4,8	111,0	122,4	10,3	24 046 381	27 596 669	14,8
-Other chemical products	7,1	126,3	127,8	1,2	26 695 580	28 832 963	8,0
-Rubber products	1,2	112,0	118,2	5,5	4 041 169	4 744 317	17,4
-Plastic products	3,1	119,0	119,2	0,2	14 123 777	15 314 227	8,4
<b>Glass and non-metallic mineral products</b>	<b>4,4</b>	<b>115,7</b>	<b>110,9</b>	<b>-4,1</b>	<b>15 549 091</b>	<b>15 958 165</b>	<b>2,6</b>
-Glass and glass products	0,9	113,7	102,2	-10,1	2 929 685	2 851 545	-2,7
-Non-metallic mineral products	3,5	116,2	113,2	-2,6	12 619 406	13 106 620	3,9
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,4</b>	<b>112,9</b>	<b>112,6</b>	<b>-0,3</b>	<b>99 116 581</b>	<b>110 661 597</b>	<b>11,6</b>
-Basic iron and steel products	4,7	97,7	97,6	-0,1	27 967 513	32 085 127	14,7
-Non-ferrous metal products	3,5	109,5	104,1	-4,9	20 758 313	23 914 721	15,2
-Structural metal products	2,2	102,7	90,3	-12,1	9 740 906	9 114 363	-6,4
-Other fabricated metal products	3,9	136,4	138,5	1,5	16 101 568	17 621 638	9,4
-General purpose machinery	2,4	104,4	97,2	-6,9	9 350 355	9 469 784	1,3
-Special purpose machinery	3,0	122,6	138,8	13,2	12 567 029	15 582 067	24,0
-Household appliances	0,7	123,4	121,9	-1,2	2 630 897	2 873 897	9,2
<b>Electrical machinery</b>	<b>2,4</b>	<b>116,3</b>	<b>115,1</b>	<b>-1,0</b>	<b>14 146 867</b>	<b>15 039 360</b>	<b>6,3</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,4</b>	<b>146,4</b>	<b>162,7</b>	<b>11,1</b>	<b>5 350 107</b>	<b>5 933 881</b>	<b>10,9</b>
-Radio, television and communication apparatus	0,9	167,4	195,4	16,7	3 175 722	3 794 776	19,5
-Professional equipment	0,5	113,8	112,1	-1,5	2 174 385	2 139 105	-1,6
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,6</b>	<b>105,8</b>	<b>129,6</b>	<b>22,5</b>	<b>47 524 118</b>	<b>64 677 844</b>	<b>36,1</b>
-Motor vehicles	3,9	120,8	160,9	33,2	25 815 392	37 227 184	44,2
-Bodies for motor vehicles, trailers and semi-trailers	0,5	129,1	130,8	1,3	2 625 524	2 766 397	5,4
-Parts and accessories	3,0	85,3	99,8	17,0	13 950 985	18 778 756	34,6
-Other transport equipment	1,2	98,4	103,2	4,9	5 132 217	5 905 507	15,1
<b>Furniture and other manufacturing division</b>	<b>4,1</b>	<b>107,5</b>	<b>113,6</b>	<b>5,7</b>	<b>15 253 657</b>	<b>16 695 656</b>	<b>9,5</b>
-Furniture	1,1	141,3	136,3	-3,5	4 582 035	4 707 573	2,7
-Other manufacturing groups	3,0	95,7	105,7	10,4	10 671 622	11 988 083	12,3
<b>Total</b>	<b>100,0</b>	<b>114,7</b>	<b>118,0</b>	<b>2,9</b>	<b>458 573 149</b>	<b>509 852 765</b>	<b>11,2</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 November 2014 was 81,9%. The improved collection rate for October 2014 was 90,3%.
- Statistical unit**
- 10 The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

**Survey methodology and design**

- 11** The survey is conducted monthly. Questionnaires are sent to a sample of 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 2014 from a population then of 45 405 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, for the period 2010 the weights are based on national accounts value added data for 2010 and for the period 2011 to 2014, the weights are based on national accounts value added data of 2011. 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 2005 to 2009, 2010 and 2011 to 2014).

**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.
  - *South African 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**

**26 Neyman optimal allocation**

Before drawing a sample in the survey the population of enterprises on the BSF was stratified. Strata were formed using a combination of Standard Industrial Classification variable and the measure of size variable for enterprises. The Neyman optimal allocation formula used to allocate samples to each stratum is given by a formula below.

$$n_h = n * ( N_h * S_h ) / [ \sum ( N_i * S_i ) ].$$

Class limits: Manufacturing (Rand)

Enterprise size	Lower limits	Upper limits
Very small	1 633 746	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</i> (SNA) in the same way as in the 1993 <i>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**

Manufacturing divisions and major groups	Weights according to the 2005 LSS of the manufacturing industry 2005 - 2009	Weights according to 2010 national accounts value added 2010	Weights according to 2011 national accounts value added 2011 - 2014
<b>Food and beverages</b>	<b>15,4</b>	<b>22,1</b>	<b>23,8</b>
Meat, fish, fruit, etc.	1,8	4,4	5,2
Dairy products	0,8	2,2	2,3
Grain mill products	0,8	2,7	2,8
Other food products	5,2	6,4	7,1
Beverages	6,8	6,4	6,4
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>3,5</b>	<b>2,9</b>
Textiles	0,7	0,7	0,8
Other textile products	0,9	0,4	0,4
Knitted, crocheted articles	0,2	0,1	0,1
Wearing apparel	2,1	1,6	1,0
Tanning, dressing of leather	0,6	0,2	0,2
Footwear	0,4	0,5	0,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>9,3</b>	<b>9,5</b>
Sawmilling and planing of wood	0,7	0,8	0,8
Products of wood	1,3	1,7	1,8
Paper and paper products	3,8	3,2	3,3
Publishing	1,9	1,4	1,4
Printing, recorded media	2,5	2,2	2,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>25,1</b>	<b>22,5</b>
Petroleum products	8,5	8,0	6,3
Basic chemicals	4,5	5,8	4,8
Other chemical products	5,3	7,4	7,1
Rubber products	1,0	1,2	1,2
Plastic products	2,7	2,7	3,1
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>4,9</b>	<b>4,4</b>
Glass and glass products	1,0	0,8	0,9
Non-metallic mineral products	3,8	4,1	3,5
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>20,3</b>	<b>20,4</b>
Basic iron and steel products	7,7	4,4	4,7
Non-ferrous metal products	3,4	3,5	3,5
Structural metal products	2,0	1,9	2,2
Other fabricated metal products	3,8	3,8	3,9
General purpose machinery	2,4	2,3	2,4
Special purpose machinery	3,1	3,5	3,0
Household appliances	0,6	0,9	0,7
<b>Electrical machinery</b>	<b>2,5</b>	<b>2,4</b>	<b>2,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>1,3</b>	<b>1,4</b>
Radio, television and communication apparatus	0,4	0,8	0,9
Professional equipment	0,7	0,5	0,5
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>7,9</b>	<b>8,6</b>
Motor vehicles	4,9	3,2	3,9
Bodies for motor vehicles, trailers and semi-trailers	0,5	0,6	0,5
Parts and accessories	4,7	2,9	3,0
Other transport equipment	0,9	1,2	1,2
<b>Other manufacturing divisions</b>	<b>5,2</b>	<b>3,2</b>	<b>4,1</b>
Furniture	1,3	0,9	1,1
Other manufacturing groups	3,9	2,3	3,0
<b>Total</b>	<b>100,0</b>	<b>100,0</b>	<b>100,0</b>

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