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# Statistical release

## P3041.2

# Manufacturing: Production and sales (Preliminary)

January 2015

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The results in the next publication (February 2015) will be updated with 2012 weights based on the 2012 national accounts value added results. Currently, the manufacturing divisions and total manufacturing production indices are calculated using weights based on the 2011 national accounts value added results.

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## Key figures for January 2015

**Table A – Manufacturing production and sales**

Estimates	January 2015	% change between January 2014 and January 2015	% change between November 2013 to January 2014 and November 2014 to January 2015
Physical volume of manufacturing production index (base: 2010=100)	92,4	-2,3	-1,2
Total estimated sales of manufactured products (R million)	129 975	-0,3	3,6

Seasonally adjusted estimates	January 2015	% change between December 2014 and January 2015	% change between August to October 2014 and November 2014 to January 2015
Physical volume of manufacturing production index (base: 2010=100)	106,3	-1,5	-0,6
Total value of sales of manufactured products (R million)	151 506	-2,7	-1,9

***Manufacturing production decreased by 2,3% in January 2015 compared with January 2014.***

The 2,3% year-on-year decrease in manufacturing production in January 2015 was mainly due to lower production in the following divisions:

- radio, television and communication apparatus and professional equipment (-27,9% and contributing -0,5 of a percentage point);
- food and beverages (-1,8% and contributing -0,5 of a percentage point);
- glass and non-metallic mineral products (-9,8% and contributing -0,4 of a percentage point); and
- petroleum, chemical products, rubber and plastic products (-1,6% and contributing -0,4 of a percentage point (see Table 4b).

***Seasonally adjusted manufacturing production decreased by 0,6% in the three months ended January 2015 compared with the previous three months. Five of the ten manufacturing divisions reported negative growth rates over this period.***

The main contributors to the 0,6% decrease were the motor vehicles, parts and accessories and other transport equipment division (-5,1% and contributing -0,5 of a percentage point) and the furniture and 'other' manufacturing division (-6,6% and contributing -0,3 of a percentage point) (see Table B).

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

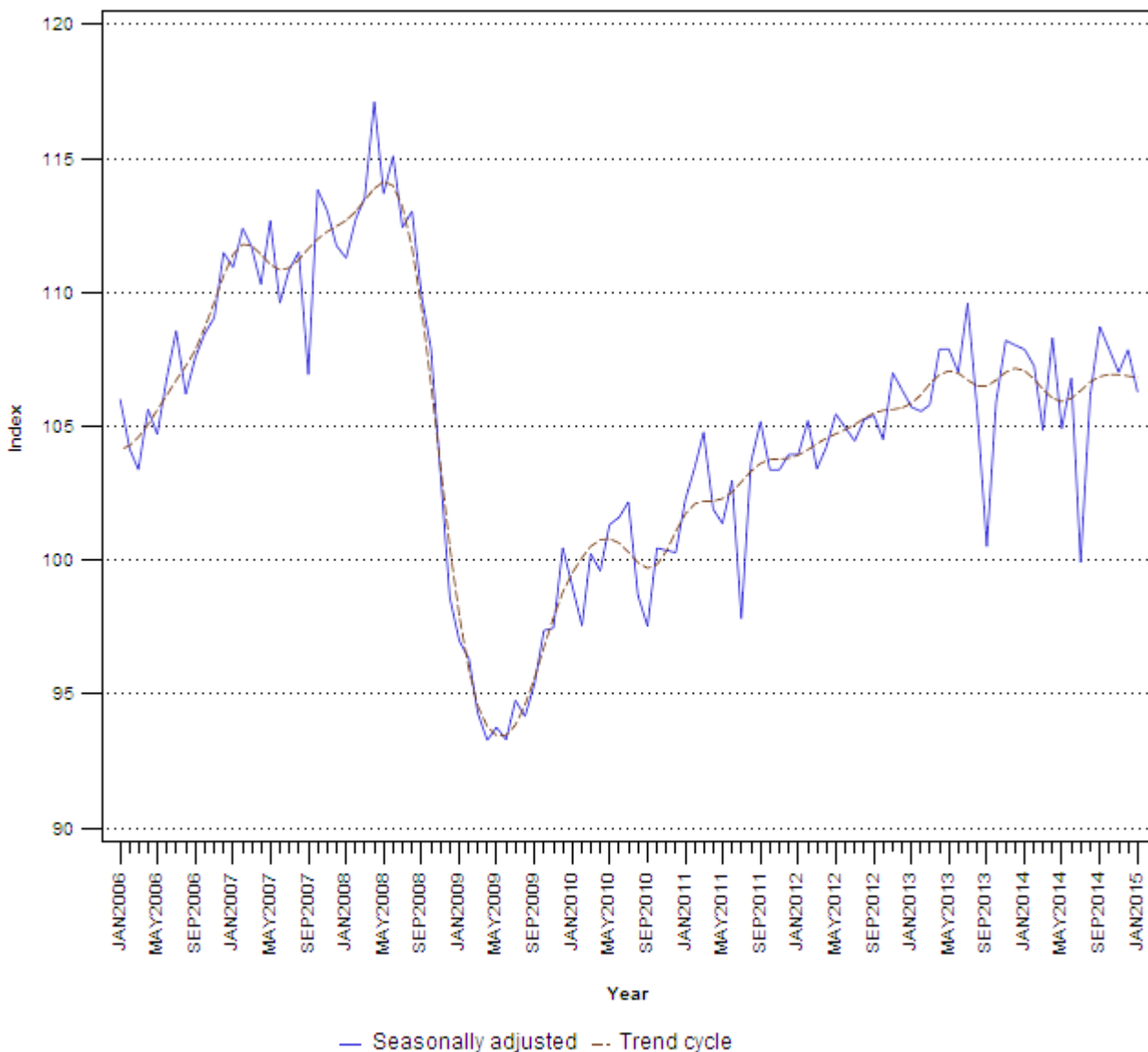
**Base: 2010=100**

Manufacturing divisions and major groups	Weights 2011	Average seasonally adjusted production index for August to October 2014	Average seasonally adjusted production index for November 2014 to January 2015	Quarterly % change of November 2014 to January 2015 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>110,5</b>	<b>112,2</b>	<b>1,5</b>	<b>0,4</b>
-Meat, fish, fruit, etc.	5,2	115,7	117,6	1,6	0,1
-Dairy products	2,3	108,9	113,1	3,9	0,1
-Grain mill products	2,8	103,4	103,0	-0,4	0,0
-Other food products	7,1	104,8	110,1	5,1	0,3
-Beverages	6,4	116,2	113,8	-2,1	-0,1
<b>Textiles, clothing, leather and footwear</b>	<b>2,9</b>	<b>97,0</b>	<b>98,8</b>	<b>1,9</b>	<b>0,0</b>
-Textiles	1,2	86,7	89,3	3,0	0,0
-Wearing apparel	1,1	99,7	100,7	1,0	0,0
-Leather and leather products	0,2	119,8	125,2	4,5	0,0
-Footwear	0,4	110,2	109,6	-0,5	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,5</b>	<b>102,1</b>	<b>102,3</b>	<b>0,2</b>	<b>0,0</b>
-Wood and products of wood	2,6	106,8	104,7	-2,0	-0,1
-Paper and paper products	3,3	101,1	104,7	3,6	0,1
-Publishing and printing	3,6	99,7	98,4	-1,3	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,5</b>	<b>109,3</b>	<b>111,1</b>	<b>1,6</b>	<b>0,4</b>
-Coke, petroleum products and nuclear fuel	6,3	95,5	108,5	13,6	0,8
-Basic chemicals	4,8	117,8	114,8	-2,5	-0,1
-Other chemical products	7,1	117,4	116,3	-0,9	-0,1
-Rubber products	1,2	108,2	104,4	-3,5	0,0
-Plastic products	3,1	106,3	101,2	-4,8	-0,1
<b>Glass and non-metallic mineral products</b>	<b>4,4</b>	<b>99,5</b>	<b>93,5</b>	<b>-6,0</b>	<b>-0,2</b>
-Glass and glass products	0,9	89,4	90,2	0,9	0,0
-Non-metallic mineral products	3,5	102,0	94,4	-7,5	-0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,4</b>	<b>103,7</b>	<b>102,5</b>	<b>-1,2</b>	<b>-0,2</b>
-Basic iron and steel products	4,7	95,9	101,4	5,7	0,2
-Basic precious, non-ferrous metal products	3,5	102,5	98,0	-4,4	-0,1
-Fabricated metal products	6,1	110,0	105,2	-4,4	-0,3
-Machinery and equipment	6,1	104,3	103,0	-1,2	-0,1
<b>Electrical machinery</b>	<b>2,4</b>	<b>104,3</b>	<b>108,4</b>	<b>3,9</b>	<b>0,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,4</b>	<b>143,6</b>	<b>130,3</b>	<b>-9,3</b>	<b>-0,2</b>
-Radio, television and communication apparatus	0,9	171,8	147,6	-14,1	-0,2
-Professional equipment	0,6	100,1	103,5	3,4	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,6</b>	<b>115,8</b>	<b>109,9</b>	<b>-5,1</b>	<b>-0,5</b>
-Motor vehicles	3,9	142,3	130,9	-8,0	-0,4
-Bodies for motor vehicles, trailers and semi-trailers	0,5	111,5	106,0	-4,9	0,0
-Parts and accessories	3,0	89,1	87,9	-1,3	0,0
-Other transport equipment	1,2	100,0	99,2	-0,8	0,0
<b>Furniture and other manufacturing division</b>	<b>4,1</b>	<b>100,8</b>	<b>94,1</b>	<b>-6,6</b>	<b>-0,3</b>
-Furniture	1,1	113,1	113,2	0,1	0,0
-Other manufacturing groups	3,0	96,5	87,5	-9,3	-0,3
<b>Total</b>	<b>100,0</b>	<b>107,6</b>	<b>107,0</b>	<b>-0,6</b>	<b>-0,6</b>

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

**Figure 1 – Index of the physical volume of manufacturing production: 2006 – 2015**

**Base: 2010=100**



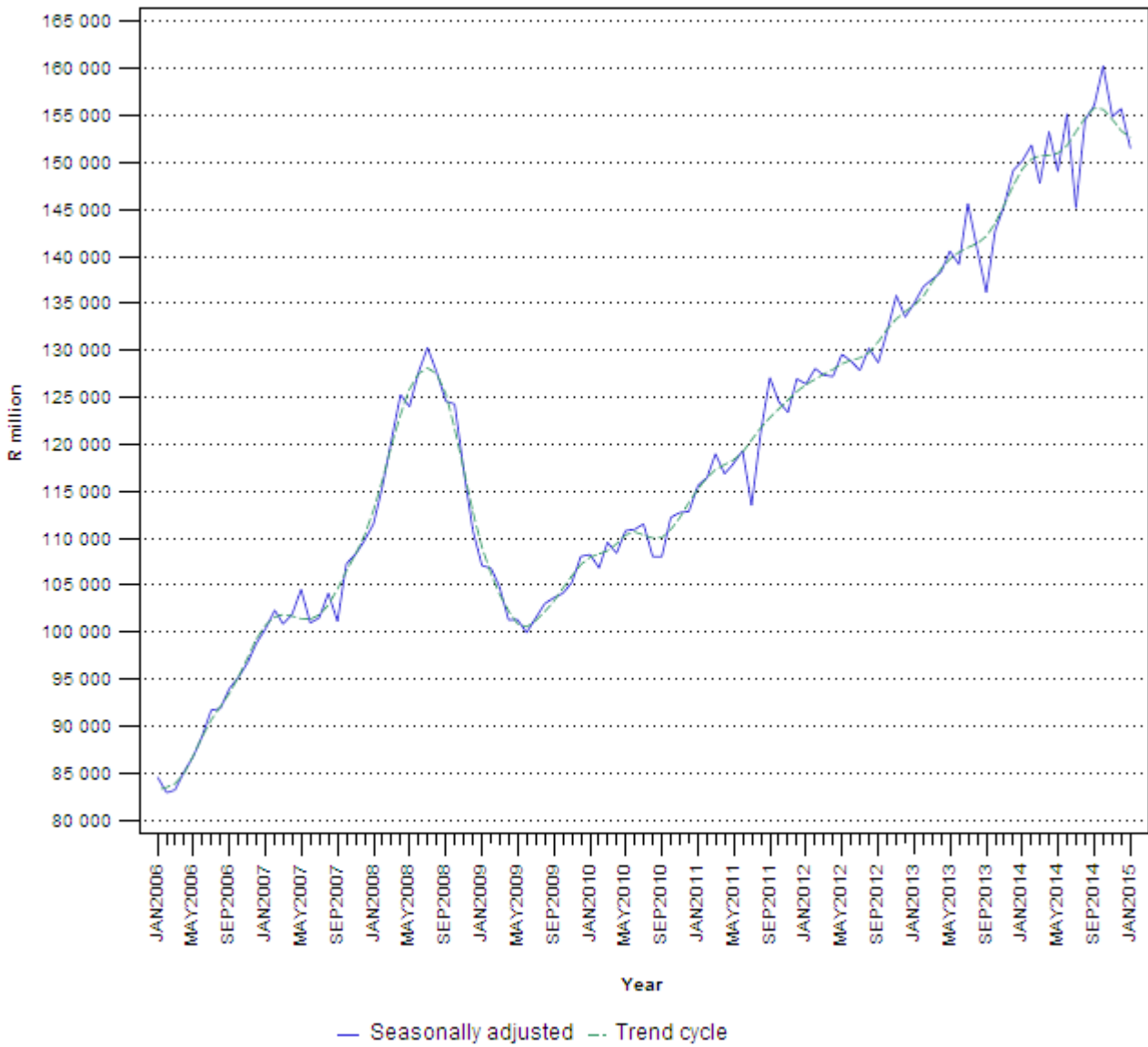
**Seasonally adjusted sales of manufactured products (at current prices) decreased by 1,9% (-R8 793 million) in the three months ended January 2015 compared with the previous three months.**

The manufacturing divisions that were mainly responsible for the decrease in total manufacturing sales were motor vehicles, parts and accessories and other transport equipment (-8,9% or -R5 390 million) and basic iron and steel, non-ferrous metal products, metal products and machinery (-3,2% or -R3 302 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 August to October 2014	Seasonally adjusted sales November 2014 to January 2015	% change between August to October 2014 and November 2014 to January 2015	Difference in seasonally adjusted sales of manufacturing divisions between August to October 2014 and November 2014 to January 2015
	R'000	R'000	%	R'000
<b>Food and beverages</b>	<b>99 244 948</b>	<b>100 545 072</b>	<b>1,3</b>	<b>1 300 124</b>
-Food and food products	71 631 120	72 927 022	1,8	1 295 902
-Beverages	27 613 827	27 618 049	0,0	4 222
<b>Textiles, clothing, leather and footwear</b>	<b>12 607 530</b>	<b>12 782 428</b>	<b>1,4</b>	<b>174 898</b>
-Textiles	4 729 903	4 768 239	0,8	38 336
-Wearing apparel	4 967 947	5 124 897	3,2	156 950
-Leather and leather products	1 628 255	1 669 231	2,5	40 976
-Footwear	1 281 425	1 220 061	-4,8	-61 364
<b>Wood and wood products, paper, publishing and printing</b>	<b>33 746 959</b>	<b>34 540 235</b>	<b>2,4</b>	<b>793 276</b>
-Wood and products of wood	7 292 298	7 284 395	-0,1	-7 903
-Paper and paper products	15 322 607	15 857 220	3,5	534 613
-Publishing and printing	11 132 054	11 398 619	2,4	266 565
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>111 773 074</b>	<b>110 359 024</b>	<b>-1,3</b>	<b>-1 414 050</b>
-Coke, petroleum products and nuclear fuel	42 849 422	43 433 118	1,4	583 696
-Basic chemicals	24 770 927	23 762 961	-4,1	-1 007 966
-Other chemical products	26 153 724	26 010 074	-0,5	-143 650
-Rubber products	4 412 168	4 001 522	-9,3	-410 646
-Plastic products	13 586 833	13 151 348	-3,2	-435 485
<b>Glass and non-metallic mineral products</b>	<b>14 077 976</b>	<b>13 392 204</b>	<b>-4,9</b>	<b>-685 772</b>
-Glass and glass products	2 340 331	2 318 375	-0,9	-21 956
-Non-metallic mineral products	11 737 645	11 073 829	-5,7	-663 816
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>104 048 767</b>	<b>100 746 872</b>	<b>-3,2</b>	<b>-3 301 895</b>
-Basic iron and steel products	33 236 683	31 238 918	-6,0	-1 997 765
-Basic precious, non-ferrous metal products	22 741 499	22 122 412	-2,7	-619 087
-Fabricated metal products	23 983 131	23 491 354	-2,1	-491 777
-Machinery and equipment	24 087 453	23 894 189	-0,8	-193 264
<b>Electrical machinery</b>	<b>13 887 186</b>	<b>14 244 591</b>	<b>2,6</b>	<b>357 405</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>5 276 189</b>	<b>5 024 315</b>	<b>-4,8</b>	<b>-251 874</b>
-Radio, television and communication apparatus	3 333 970	2 920 465	-12,4	-413 505
-Professional equipment	1 942 219	2 103 850	8,3	161 631
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>60 530 797</b>	<b>55 141 024</b>	<b>-8,9</b>	<b>-5 389 773</b>
-Motor vehicles, trailers, parts and accessories	54 790 859	49 619 658	-9,4	-5 171 201
-Other transport equipment	5 739 938	5 521 367	-3,8	-218 571
<b>Furniture and other manufacturing division</b>	<b>15 709 950</b>	<b>15 334 733</b>	<b>-2,4</b>	<b>-375 217</b>
-Furniture	3 894 439	3 997 058	2,6	102 619
-Other manufacturing groups	11 815 511	11 337 676	-4,0	-477 835
<b>Total</b>	<b>470 903 373</b>	<b>462 110 497</b>	<b>-1,9</b>	<b>-8 792 876</b>

Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2015



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## Detailed results

**Table 1 – Total index of the physical volume of manufacturing production: 2009 – 2015**

**Base: 2010=100**

Month	2009	2010	2011	2012	2013	2014	2015
Jan	82,7	84,5	86,7	89,3	92,3	94,6	1/ 92,4
Feb	91,1	92,2	98,4	102,7	100,7	102,3	
Mar	97,6	103,8	109,3	106,6	104,8	105,8	
Apr	86,6	93,4	93,4	95,1	102,0	100,1	
May	94,2	100,6	101,6	107,1	109,6	105,3	
Jun	94,5	102,9	104,2	104,9	105,6	105,8	
Jul	98,2	105,3	98,9	105,8	111,9	102,7	
Aug	96,3	101,6	107,8	110,2	109,6	108,9	
Sep	99,9	102,2	110,4	108,0	103,9	113,1	
Oct	108,4	110,3	112,9	116,6	119,0	121,4	
Nov	107,9	112,2	116,6	121,0	121,1	1/ 118,6	
Dec	89,2	91,0	93,5	94,5	97,3	1/ 98,2	
Year	<b>95,6</b>	<b>100,0</b>	<b>102,8</b>	<b>105,2</b>	<b>106,5</b>	<b>106,4</b>	

1/ Preliminary.

**Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2009 – 2015** 2/

Month	2009	2010	2011	2012	2013	2014	2015
Jan	-14,8	2,2	2,6	3,0	3,4	2,5	-2,3
Feb	-16,7	1,2	6,7	4,4	-1,9	1,6	
Mar	-13,7	6,4	5,3	-2,5	-1,7	1,0	
Apr	-23,2	7,9	0,0	1,8	7,3	-1,9	
May	-18,4	6,8	1,0	5,4	2,3	-3,9	
Jun	-18,3	8,9	1,3	0,7	0,7	0,2	
Jul	-15,3	7,2	-6,1	7,0	5,8	-8,2	
Aug	-16,8	5,5	6,1	2,2	-0,5	-0,6	
Sep	-12,7	2,3	8,0	-2,2	-3,8	8,9	
Oct	-10,3	1,8	2,4	3,3	2,1	2,0	
Nov	-5,1	4,0	3,9	3,8	0,1	-2,1	
Dec	3,4	2,0	2,7	1,1	3,0	0,9	
Year	<b>-13,8</b>	<b>4,6</b>	<b>2,8</b>	<b>2,3</b>	<b>1,2</b>	<b>-0,1</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: 2009 – 2015**

**Base: 2010=100**

Month	2009	2010	2011	2012	2013	2014	2015
Jan	97,0	99,0	102,3	103,9	105,7	107,9	106,3
Feb	96,3	97,6	103,5	105,2	105,6	107,2	
Mar	94,3	100,2	104,8	103,4	105,8	104,9	
Apr	93,3	99,6	101,9	104,2	107,9	108,3	
May	93,8	101,3	101,4	105,5	107,9	104,9	
Jun	93,3	101,6	103,0	104,9	107,0	106,8	
Jul	94,8	102,2	97,8	104,4	109,6	99,9	
Aug	94,2	98,7	103,6	105,3	105,6	106,1	
Sep	95,4	97,5	105,2	105,4	100,5	108,7	
Oct	97,4	100,5	103,4	104,5	105,9	107,9	
Nov	97,5	100,4	103,4	107,0	108,2	107,0	
Dec	100,5	100,3	103,9	106,4	108,0	107,9	



**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 2014	Actual indices			Seasonally adjusted indices		
			Jan. 2014	1/ Dec. 2014	1/ Jan. 2015	Jan. 2014	Dec. 2014	Jan. 2015
<b>Food and beverages</b>	<b>23,8</b>	<b>110,3</b>	<b>98,5</b>	<b>126,4</b>	<b>96,7</b>	<b>110,7</b>	<b>115,6</b>	<b>111,7</b>
-Meat, fish, fruit, etc.	5,2	115,2	99,5	129,3	99,1	116,4	118,7	118,8
-Dairy products	2,3	107,4	110,0	125,4	119,6	106,0	113,5	115,9
-Grain mill products	2,8	105,2	101,9	103,4	94,8	108,4	102,3	104,3
-Other food products	7,1	106,8	83,5	105,0	76,9	108,2	120,3	104,4
-Beverages	6,4	113,3	108,7	158,1	109,3	111,7	114,6	115,7
<b>Textiles, clothing, leather and footwear</b>	<b>2,9</b>	<b>95,8</b>	<b>72,6</b>	<b>73,8</b>	<b>73,0</b>	<b>97,6</b>	<b>97,6</b>	<b>100,2</b>
-Textiles	0,8	82,0	69,6	56,0	64,4	85,3	83,8	80,6
-Other textile products	0,4	96,0	72,4	75,1	79,1	93,5	100,2	104,9
-Knitted, crocheted articles	0,1	56,9	43,0	36,5	39,9	60,6	52,5	55,8
-Wearing apparel	1,0	101,5	72,6	85,6	72,8	105,7	103,8	106,0
-Leather and leather products	0,2	123,1	116,7	116,3	108,9	132,6	132,7	122,8
-Footwear	0,4	105,0	65,2	68,9	75,8	98,5	101,1	119,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,5</b>	<b>103,4</b>	<b>87,6</b>	<b>97,3</b>	<b>85,1</b>	<b>100,5</b>	<b>104,5</b>	<b>98,1</b>
-Sawmilling and planing of wood	0,8	114,1	94,6	92,5	106,4	105,0	118,2	118,1
-Products of wood	1,8	100,4	80,6	73,2	84,2	97,1	94,2	101,5
-Paper and paper products	3,3	103,7	91,1	110,6	88,9	101,9	109,7	99,5
-Publishing	1,4	106,3	90,9	111,2	76,2	107,6	106,7	91,6
-Printing, recorded media	2,2	99,5	83,4	89,3	78,1	94,8	98,8	90,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,5</b>	<b>108,9</b>	<b>102,9</b>	<b>103,7</b>	<b>101,3</b>	<b>111,7</b>	<b>111,1</b>	<b>109,3</b>
-Coke, petroleum products and nuclear fuel	6,3	102,5	109,9	112,8	111,9	107,4	107,9	108,3
-Basic chemicals	4,8	115,4	108,0	112,3	103,1	115,2	116,0	107,5
-Other chemical products	7,1	113,0	97,3	104,5	100,2	112,5	116,0	117,0
-Rubber products	1,2	105,2	105,7	67,2	91,1	117,2	103,8	101,4
-Plastic products	3,1	104,0	92,2	84,1	83,0	110,8	101,3	99,9
<b>Glass and non-metallic mineral products</b>	<b>4,4</b>	<b>99,3</b>	<b>83,4</b>	<b>72,9</b>	<b>75,2</b>	<b>103,2</b>	<b>90,6</b>	<b>93,7</b>
-Glass and glass products	0,9	89,8	79,6	87,2	79,5	91,6	90,9	91,7
-Non-metallic mineral products	3,5	101,7	84,4	69,3	74,1	106,1	90,5	94,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,4</b>	<b>102,1</b>	<b>89,6</b>	<b>86,5</b>	<b>89,6</b>	<b>103,5</b>	<b>102,6</b>	<b>103,3</b>
-Basic iron and steel products	4,7	94,6	94,1	86,4	103,3	96,6	100,2	105,1
-Non-ferrous metal products	3,5	103,9	106,6	90,0	94,2	108,9	98,5	96,6
-Structural metal products	2,2	82,3	72,0	62,2	62,3	89,0	80,6	76,0
-Other fabricated metal products	3,9	120,5	92,9	90,8	95,4	116,4	122,2	120,2
-General purpose machinery	2,4	88,2	69,9	78,1	67,2	89,0	87,0	86,1
-Special purpose machinery	3,0	111,3	83,4	102,8	87,0	109,5	112,5	114,6
-Household appliances	0,7	114,8	110,9	82,0	119,0	121,8	111,2	131,0
<b>Electrical machinery</b>	<b>2,4</b>	<b>102,9</b>	<b>80,7</b>	<b>83,2</b>	<b>81,9</b>	<b>106,5</b>	<b>114,0</b>	<b>108,2</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,4</b>	<b>139,4</b>	<b>117,0</b>	<b>124,5</b>	<b>84,3</b>	<b>142,7</b>	<b>142,7</b>	<b>103,6</b>
-Radio, television and communication apparatus	0,9	163,7	140,0	144,3	85,6	166,9	169,2	102,2
-Professional equipment	0,5	101,8	81,4	93,8	82,2	105,4	101,7	105,9
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,6</b>	<b>109,4</b>	<b>99,8</b>	<b>68,3</b>	<b>98,2</b>	<b>112,8</b>	<b>105,5</b>	<b>113,2</b>
-Motor vehicles	3,9	128,6	116,5	69,2	118,9	133,0	120,0	136,5
-Bodies for motor vehicles, trailers and semi-trailers	0,5	107,2	76,3	65,1	78,8	101,5	98,1	110,2
-Parts and accessories	3,0	90,8	87,0	52,8	81,0	93,5	84,5	91,1
-Other transport equipment	1,2	95,5	88,6	105,0	83,4	101,2	114,9	95,6
<b>Furniture and other manufacturing division</b>	<b>4,1</b>	<b>98,0</b>	<b>84,6</b>	<b>71,2</b>	<b>78,3</b>	<b>99,7</b>	<b>93,7</b>	<b>94,5</b>
-Furniture	1,1	113,2	72,0	93,7	77,2	112,6	113,8	120,4
-Other manufacturing groups	3,0	92,7	89,0	63,4	78,7	95,2	86,7	85,5
<b>Total</b>	<b>100,0</b>	<b>106,4</b>	<b>94,6</b>	<b>98,2</b>	<b>92,4</b>	<b>107,9</b>	<b>107,9</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 2011	Average for 2014	Actual indices			Seasonally adjusted indices		
			Jan. 2014	1/ Jan. 2015	% change between Jan. 2014 and Jan. 2015	Dec. 2014	Jan. 2015	% change between Dec. 2014 and Jan. 2015
<b>Food and beverages</b>	<b>23,8</b>	<b>110,3</b>	<b>98,5</b>	<b>96,7</b>	<b>-1,8</b>	<b>115,6</b>	<b>111,7</b>	<b>-3,4</b>
-Meat, fish, fruit, etc.	5,2	115,2	99,5	99,1	-0,4	118,7	118,8	0,1
-Dairy products	2,3	107,4	110,0	119,6	8,7	113,5	115,9	2,1
-Grain mill products	2,8	105,2	101,9	94,8	-7,0	102,3	104,3	2,0
-Other food products	7,1	106,8	83,5	76,9	-7,9	120,3	104,4	-13,2
-Beverages	6,4	113,3	108,7	109,3	0,6	114,6	115,7	1,0
<b>Textiles, clothing, leather and footwear</b>	<b>2,9</b>	<b>95,8</b>	<b>72,6</b>	<b>73,0</b>	<b>0,6</b>	<b>97,6</b>	<b>100,2</b>	<b>2,7</b>
-Textiles	0,8	82,0	69,6	64,4	-7,5	83,8	80,6	-3,8
-Other textile products	0,4	96,0	72,4	79,1	9,3	100,2	104,9	4,7
-Knitted, crocheted articles	0,1	56,9	43,0	39,9	-7,2	52,5	55,8	6,3
-Wearing apparel	1,0	101,5	72,6	72,8	0,3	103,8	106,0	2,1
-Leather and leather products	0,2	123,1	116,7	108,9	-6,7	132,7	122,8	-7,5
-Footwear	0,4	105,0	65,2	75,8	16,3	101,1	119,4	18,1
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,5</b>	<b>103,4</b>	<b>87,6</b>	<b>85,1</b>	<b>-2,9</b>	<b>104,5</b>	<b>98,1</b>	<b>-6,1</b>
-Sawmilling and planing of wood	0,8	114,1	94,6	106,4	12,5	118,2	118,1	-0,1
-Products of wood	1,8	100,4	80,6	84,2	4,5	94,2	101,5	7,7
-Paper and paper products	3,3	103,7	91,1	88,9	-2,4	109,7	99,5	-9,3
-Publishing	1,4	106,3	90,9	76,2	-16,2	106,7	91,6	-14,2
-Printing, recorded media	2,2	99,5	83,4	78,1	-6,4	98,8	90,0	-8,9
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,5</b>	<b>108,9</b>	<b>102,9</b>	<b>101,3</b>	<b>-1,6</b>	<b>111,1</b>	<b>109,3</b>	<b>-1,6</b>
-Coke, petroleum products and nuclear fuel	6,3	102,5	109,9	111,9	1,8	107,9	108,3	0,4
-Basic chemicals	4,8	115,4	108,0	103,1	-4,5	116,0	107,5	-7,3
-Other chemical products	7,1	113,0	97,3	100,2	3,0	116,0	117,0	0,9
-Rubber products	1,2	105,2	105,7	91,1	-13,8	103,8	101,4	-2,3
-Plastic products	3,1	104,0	92,2	83,0	-10,0	101,3	99,9	-1,4
<b>Glass and non-metallic mineral products</b>	<b>4,4</b>	<b>99,3</b>	<b>83,4</b>	<b>75,2</b>	<b>-9,8</b>	<b>90,6</b>	<b>93,7</b>	<b>3,4</b>
-Glass and glass products	0,9	89,8	79,6	79,5	-0,1	90,9	91,7	0,9
-Non-metallic mineral products	3,5	101,7	84,4	74,1	-12,2	90,5	94,2	4,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,4</b>	<b>102,1</b>	<b>89,6</b>	<b>89,6</b>	<b>0,0</b>	<b>102,6</b>	<b>103,3</b>	<b>0,7</b>
-Basic iron and steel products	4,7	94,6	94,1	103,3	9,8	100,2	105,1	4,9
-Non-ferrous metal products	3,5	103,9	106,6	94,2	-11,6	98,5	96,6	-1,9
-Structural metal products	2,2	82,3	72,0	62,3	-13,5	80,6	76,0	-5,7
-Other fabricated metal products	3,9	120,5	92,9	95,4	2,7	122,2	120,2	-1,6
-General purpose machinery	2,4	88,2	69,9	67,2	-3,9	87,0	86,1	-1,0
-Special purpose machinery	3,0	111,3	83,4	87,0	4,3	112,5	114,6	1,9
-Household appliances	0,7	114,8	110,9	119,0	7,3	111,2	131,0	17,8
<b>Electrical machinery</b>	<b>2,4</b>	<b>102,9</b>	<b>80,7</b>	<b>81,9</b>	<b>1,5</b>	<b>114,0</b>	<b>108,2</b>	<b>-5,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,4</b>	<b>139,4</b>	<b>117,0</b>	<b>84,3</b>	<b>-27,9</b>	<b>142,7</b>	<b>103,6</b>	<b>-27,4</b>
-Radio, television and communication apparatus	0,9	163,7	140,0	85,6	-38,9	169,2	102,2	-39,6
-Professional equipment	0,5	101,8	81,4	82,2	1,0	101,7	105,9	4,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,6</b>	<b>109,4</b>	<b>99,8</b>	<b>98,2</b>	<b>-1,6</b>	<b>105,5</b>	<b>113,2</b>	<b>7,3</b>
-Motor vehicles	3,9	128,6	116,5	118,9	2,1	120,0	136,5	13,8
-Bodies for motor vehicles, trailers and semi-trailers	0,5	107,2	76,3	78,8	3,3	98,1	110,2	12,3
-Parts and accessories	3,0	90,8	87,0	81,0	-6,9	84,5	91,1	7,8
-Other transport equipment	1,2	95,5	88,6	83,4	-5,9	114,9	95,6	-16,8
<b>Furniture and other manufacturing division</b>	<b>4,1</b>	<b>98,0</b>	<b>84,6</b>	<b>78,3</b>	<b>-7,4</b>	<b>93,7</b>	<b>94,5</b>	<b>0,9</b>
-Furniture	1,1	113,2	72,0	77,2	7,2	113,8	120,4	5,8
-Other manufacturing groups	3,0	92,7	89,0	78,7	-11,6	86,7	85,5	-1,4
<b>Total</b>	<b>100,0</b>	<b>106,4</b>	<b>94,6</b>	<b>92,4</b>	<b>-2,3</b>	<b>107,9</b>	<b>106,3</b>	<b>-1,5</b>

1/ Preliminary.

**Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2009 – 2015**

Month	2009	2010	2011	2012	2013	2014	2015
Jan	89 411 709	90 043 639	95 914 260	107 125 725	116 496 690	130 317 527	1/ 129 974 582
Feb	101 389 780	101 802 931	111 504 610	125 726 110	131 666 953	146 262 502	
Mar	109 741 940	115 312 858	126 114 741	133 201 183	137 659 315	151 399 659	
Apr	93 988 030	101 813 278	108 002 905	117 398 378	133 362 802	143 701 281	
May	100 539 504	109 347 265	117 550 156	130 161 819	141 170 742	148 218 032	
Jun	102 182 642	113 714 894	122 066 418	130 686 381	139 191 581	156 152 997	
Jul	103 852 587	112 863 459	112 900 609	127 523 717	146 281 118	146 085 440	
Aug	104 831 059	110 602 573	124 733 688	134 271 194	143 904 416	156 424 723	
Sep	109 100 206	113 246 712	133 013 706	131 703 059	140 281 228	162 202 124	
Oct	114 516 711	121 671 719	133 668 047	144 305 886	156 176 718	175 256 749	
Nov	116 693 241	126 495 305	139 068 350	153 074 012	162 115 203	1/ 170 419 049	
Dec	99 259 368	104 538 782	117 666 432	123 592 966	140 400 601	1/ 147 994 581	
<b>Year</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>	<b>1 834 434 664</b>	

1/ Preliminary.

**Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2009 – 2015** 2/

Month	2009	2010	2011	2012	2013	2014	2015
Jan	-5,6	0,7	6,5	11,7	8,7	11,9	-0,3
Feb	-10,0	0,4	9,5	12,8	4,7	11,1	
Mar	-8,3	5,1	9,4	5,6	3,3	10,0	
Apr	-22,7	8,3	6,1	8,7	13,6	7,8	
May	-19,5	8,8	7,5	10,7	8,5	5,0	
Jun	-21,2	11,3	7,3	7,1	6,5	12,2	
Jul	-22,2	8,7	0,0	13,0	14,7	-0,1	
Aug	-20,2	5,5	12,8	7,6	7,2	8,7	
Sep	-16,6	3,8	17,5	-1,0	6,5	15,6	
Oct	-16,8	6,2	9,9	8,0	8,2	12,2	
Nov	-9,0	8,4	9,9	10,1	5,9	5,1	
Dec	-1,7	5,3	12,6	5,0	13,6	5,4	
<b>Year</b>	<b>-15,0</b>	<b>6,1</b>	<b>9,1</b>	<b>8,1</b>	<b>8,3</b>	<b>8,6</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): 2009 – 2015**

Month	2009	2010	2011	2012	2013	2014	2015
Jan	107 083 642	108 254 469	115 603 425	126 409 250	135 050 461	150 179 026	151 505 531
Feb	106 781 706	106 828 202	116 463 733	128 066 636	136 806 106	151 854 311	
Mar	104 852 355	109 547 329	118 973 639	127 354 382	137 511 647	147 791 791	
Apr	101 284 556	108 402 023	116 848 582	127 211 694	138 330 775	153 268 757	
May	101 322 799	110 791 149	117 945 867	129 568 371	140 560 540	149 067 281	
Jun	99 934 435	110 919 582	119 308 447	128 857 625	139 166 742	155 149 719	
Jul	101 464 201	111 515 833	113 481 724	127 859 096	145 631 276	145 189 060	
Aug	103 012 668	108 035 519	121 217 630	130 222 154	140 885 668	154 546 372	
Sep	103 657 168	108 029 142	127 084 203	128 677 668	136 169 901	156 081 157	
Oct	104 110 071	112 194 605	124 541 106	131 987 268	142 738 843	160 275 844	
Nov	105 262 929	112 731 754	123 388 054	135 835 731	145 445 874	154 870 555	
Dec	108 044 732	112 812 997	126 966 162	133 551 818	149 150 311	155 734 408	

**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 2014	Actual values			Seasonally adjusted values		
		Jan. 2014	1/ Dec. 2014	1/ Jan. 2015	Jan. 2014	Dec. 2014	Jan. 2015
<b>Food and beverages</b>	<b>391 872 556</b>	<b>28 233 002</b>	<b>40 198 740</b>	<b>30 050 236</b>	<b>31 275 032</b>	<b>33 835 780</b>	<b>33 853 741</b>
-Meat, fish, fruit, etc.	105 017 475	7 211 486	10 434 824	7 510 942	8 543 912	9 239 234	9 099 323
-Dairy products	34 033 139	2 635 236	3 419 906	3 095 226	2 636 909	3 087 955	3 138 856
-Grain mill products	64 105 154	5 014 151	5 324 351	4 721 266	5 366 426	5 213 474	5 195 492
-Other food products	81 559 806	5 659 786	7 223 580	6 201 774	6 302 052	7 094 692	7 004 487
-Beverages	107 156 982	7 712 343	13 796 079	8 521 028	8 425 732	9 200 423	9 415 581
<b>Textiles, clothing, leather and footwear</b>	<b>49 328 204</b>	<b>2 969 675</b>	<b>3 603 184</b>	<b>3 103 106</b>	<b>4 022 884</b>	<b>4 327 487</b>	<b>4 276 017</b>
-Textiles	6 299 748	416 931	376 757	408 823	514 849	542 601	525 771
-Other textile products	12 250 299	746 759	823 547	807 812	969 129	1 044 582	1 065 688
-Knitted, crocheted articles	2 377 787	158 593	132 026	145 491	213 476	174 502	196 952
-Wearing apparel	17 006 477	915 082	1 367 512	1 010 654	1 390 120	1 544 876	1 536 087
-Leather and leather products	6 637 099	503 057	540 742	490 361	561 458	602 635	548 456
-Footwear	4 756 794	229 253	362 600	239 965	373 850	418 289	403 062
<b>Wood and wood products, paper, publishing and printing</b>	<b>135 264 401</b>	<b>9 208 525</b>	<b>11 177 607</b>	<b>9 471 114</b>	<b>10 675 188</b>	<b>11 746 633</b>	<b>11 096 862</b>
-Sawmilling and planing of wood	10 531 005	721 221	745 327	805 432	841 416	886 906	928 322
-Products of wood	18 266 905	1 190 524	1 151 983	1 260 798	1 449 995	1 466 236	1 552 645
-Paper and paper products	60 931 868	4 149 687	5 572 084	4 411 049	4 802 766	5 419 030	5 179 266
-Publishing	20 066 195	1 424 344	1 753 705	1 258 548	1 647 928	1 806 923	1 461 640
-Printing, recorded media	25 468 428	1 722 749	1 954 508	1 735 287	1 933 080	2 167 536	1 974 987
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>452 163 910</b>	<b>35 787 848</b>	<b>35 729 784</b>	<b>31 296 704</b>	<b>38 625 549</b>	<b>37 289 768</b>	<b>34 127 819</b>
-Coke, petroleum products and nuclear fuel	186 481 975	16 574 507	15 493 685	12 702 481	16 155 063	15 064 216	12 248 497
-Basic chemicals	96 414 360	7 318 811	7 382 325	6 593 931	8 460 445	7 948 268	7 588 577
-Other chemical products	99 738 691	6 944 967	8 035 524	7 348 067	8 169 524	8 547 498	8 735 524
-Rubber products	16 956 761	1 278 062	1 022 277	1 091 538	1 486 094	1 317 858	1 255 303
-Plastic products	52 572 123	3 671 501	3 795 973	3 560 687	4 354 421	4 411 926	4 299 917
<b>Glass and non-metallic mineral products</b>	<b>55 423 709</b>	<b>3 557 857</b>	<b>3 413 107</b>	<b>3 393 578</b>	<b>4 595 446</b>	<b>4 419 277</b>	<b>4 464 725</b>
-Glass and glass products	9 305 728	651 731	714 567	639 811	793 383	772 489	782 559
-Non-metallic mineral products	46 117 981	2 906 126	2 698 540	2 753 767	3 802 062	3 646 787	3 682 165
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>395 312 268</b>	<b>27 534 952</b>	<b>29 207 782</b>	<b>28 345 115</b>	<b>32 471 418</b>	<b>34 197 710</b>	<b>33 567 350</b>
-Basic iron and steel products	121 988 751	9 880 484	8 526 457	10 041 476	10 677 153	10 868 772	10 803 291
-Non-ferrous metal products	87 121 151	6 009 871	7 124 875	6 341 390	6 842 659	7 369 146	7 174 188
-Structural metal products	32 806 793	2 295 035	2 136 986	2 070 699	2 870 169	2 712 359	2 625 175
-Other fabricated metal products	60 262 135	3 714 055	3 920 953	3 966 636	4 697 407	5 170 384	5 084 535
-General purpose machinery	33 776 613	2 103 649	2 659 615	2 162 760	2 784 839	2 903 165	2 848 874
-Special purpose machinery	49 171 560	2 830 487	4 258 864	3 032 232	3 759 656	4 384 379	4 156 906
-Household appliances	10 185 265	701 371	580 032	729 922	839 531	789 502	874 379
<b>Electrical machinery</b>	<b>52 900 401</b>	<b>3 291 422</b>	<b>3 869 833</b>	<b>3 470 404</b>	<b>4 414 839</b>	<b>5 128 125</b>	<b>4 652 512</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>20 551 669</b>	<b>1 362 665</b>	<b>1 650 501</b>	<b>1 112 211</b>	<b>1 732 862</b>	<b>1 736 849</b>	<b>1 448 899</b>
-Radio, television and communication apparatus	12 655 287	849 074	1 023 682	533 866	1 058 704	1 084 881	690 744
-Professional equipment	7 896 382	513 591	626 819	578 345	674 158	651 968	758 155
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>221 207 072</b>	<b>14 704 938</b>	<b>14 131 042</b>	<b>15 961 696</b>	<b>17 622 600</b>	<b>17 730 831</b>	<b>18 975 246</b>
-Motor vehicles	125 897 542	7 791 769	7 903 310	8 694 620	9 837 213	9 243 749	10 709 507
-Bodies for motor vehicles, trailers and semi-trailers	9 108 576	497 946	537 826	518 958	712 010	711 281	781 973
-Parts and accessories	64 796 794	4 804 038	3 692 308	5 178 209	5 225 299	5 586 437	5 682 667
-Other transport equipment	21 404 160	1 611 185	1 997 598	1 569 909	1 848 077	2 189 363	1 801 097
<b>Furniture and other manufacturing division</b>	<b>60 410 474</b>	<b>3 666 643</b>	<b>5 013 001</b>	<b>3 770 418</b>	<b>4 743 204</b>	<b>5 321 943</b>	<b>5 042 355</b>
-Furniture	15 470 377	782 537	1 193 114	906 861	1 198 191	1 352 061	1 406 931
-Other manufacturing groups	44 940 097	2 884 106	3 819 887	2 863 557	3 545 013	3 969 882	3 635 424
<b>Total</b>	<b>1 834 434 664</b>	<b>130 317 527</b>	<b>147 994 581</b>	<b>129 974 582</b>	<b>150 179 026</b>	<b>155 734 408</b>	<b>151 505 531</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 2014	Actual values			Seasonally adjusted values		
		Jan. 2014	1/ Jan. 2015	% change between Jan. 2014 and Jan. 2015	Dec. 2014	Jan. 2015	% change between Dec. 2014 and Jan. 2015
<b>Food and beverages</b>	<b>391 872 556</b>	<b>28 233 002</b>	<b>30 050 236</b>	<b>6,4</b>	<b>33 835 780</b>	<b>33 853 741</b>	<b>0,1</b>
-Meat, fish, fruit, etc.	105 017 475	7 211 486	7 510 942	4,2	9 239 234	9 099 323	-1,5
-Dairy products	34 033 139	2 635 236	3 095 226	17,5	3 087 955	3 138 856	1,6
-Grain mill products	64 105 154	5 014 151	4 721 266	-5,8	5 213 474	5 195 492	-0,3
-Other food products	81 559 806	5 659 786	6 201 774	9,6	7 094 692	7 004 487	-1,3
-Beverages	107 156 982	7 712 343	8 521 028	10,5	9 200 423	9 415 581	2,3
<b>Textiles, clothing, leather and footwear</b>	<b>49 328 204</b>	<b>2 969 675</b>	<b>3 103 106</b>	<b>4,5</b>	<b>4 327 487</b>	<b>4 276 017</b>	<b>-1,2</b>
-Textiles	6 299 748	416 931	408 823	-1,9	542 601	525 771	-3,1
-Other textile products	12 250 299	746 759	807 812	8,2	1 044 582	1 065 688	2,0
-Knitted, crocheted articles	2 377 787	158 593	145 491	-8,3	174 502	196 952	12,9
-Wearing apparel	17 006 477	915 082	1 010 654	10,4	1 544 876	1 536 087	-0,6
-Leather and leather products	6 637 099	503 057	490 361	-2,5	602 635	548 456	-9,0
-Footwear	4 756 794	229 253	239 965	4,7	418 289	403 062	-3,6
<b>Wood and wood products, paper, publishing and printing</b>	<b>135 264 401</b>	<b>9 208 525</b>	<b>9 471 114</b>	<b>2,9</b>	<b>11 746 633</b>	<b>11 096 862</b>	<b>-5,5</b>
-Sawmilling and planing of wood	10 531 005	721 221	805 432	11,7	886 906	928 322	4,7
-Products of wood	18 266 905	1 190 524	1 260 798	5,9	1 466 236	1 552 645	5,9
-Paper and paper products	60 931 868	4 149 687	4 411 049	6,3	5 419 030	5 179 266	-4,4
-Publishing	20 066 195	1 424 344	1 258 548	-11,6	1 806 923	1 461 640	-19,1
-Printing, recorded media	25 468 428	1 722 749	1 735 287	0,7	2 167 536	1 974 987	-8,9
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>452 163 910</b>	<b>35 787 848</b>	<b>31 296 704</b>	<b>-12,5</b>	<b>37 289 768</b>	<b>34 127 819</b>	<b>-8,5</b>
-Coke, petroleum products and nuclear fuel	186 481 975	16 574 507	12 702 481	-23,4	15 064 216	12 248 497	-18,7
-Basic chemicals	96 414 360	7 318 811	6 593 931	-9,9	7 948 268	7 588 577	-4,5
-Other chemical products	99 738 691	6 944 967	7 348 067	5,8	8 547 498	8 735 524	2,2
-Rubber products	16 956 761	1 278 062	1 091 538	-14,6	1 317 858	1 255 303	-4,7
-Plastic products	52 572 123	3 671 501	3 560 687	-3,0	4 411 926	4 299 917	-2,5
<b>Glass and non-metallic mineral products</b>	<b>55 423 709</b>	<b>3 557 857</b>	<b>3 393 578</b>	<b>-4,6</b>	<b>4 419 277</b>	<b>4 464 725</b>	<b>1,0</b>
-Glass and glass products	9 305 728	651 731	639 811	-1,8	772 489	782 559	1,3
-Non-metallic mineral products	46 117 981	2 906 126	2 753 767	-5,2	3 646 787	3 682 165	1,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>395 312 268</b>	<b>27 534 952</b>	<b>28 345 115</b>	<b>2,9</b>	<b>34 197 710</b>	<b>33 567 350</b>	<b>-1,8</b>
-Basic iron and steel products	121 988 751	9 880 484	10 041 476	1,6	10 868 772	10 803 291	-0,6
-Non-ferrous metal products	87 121 151	6 009 871	6 341 390	5,5	7 369 146	7 174 188	-2,6
-Structural metal products	32 806 793	2 295 035	2 070 699	-9,8	2 712 359	2 625 175	-3,2
-Other fabricated metal products	60 262 135	3 714 055	3 966 636	6,8	5 170 384	5 084 535	-1,7
-General purpose machinery	33 776 613	2 103 649	2 162 760	2,8	2 903 165	2 848 874	-1,9
-Special purpose machinery	49 171 560	2 830 487	3 032 232	7,1	4 384 379	4 156 906	-5,2
-Household appliances	10 185 265	701 371	729 922	4,1	789 502	874 379	10,8
<b>Electrical machinery</b>	<b>52 900 401</b>	<b>3 291 422</b>	<b>3 470 404</b>	<b>5,4</b>	<b>5 128 125</b>	<b>4 652 512</b>	<b>-9,3</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>20 551 669</b>	<b>1 362 665</b>	<b>1 112 211</b>	<b>-18,4</b>	<b>1 736 849</b>	<b>1 448 899</b>	<b>-16,6</b>
-Radio, television and communication apparatus	12 655 287	849 074	533 866	-37,1	1 084 881	690 744	-36,3
-Professional equipment	7 896 382	513 591	578 345	12,6	651 968	758 155	16,3
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>221 207 072</b>	<b>14 704 938</b>	<b>15 961 696</b>	<b>8,5</b>	<b>17 730 831</b>	<b>18 975 246</b>	<b>7,0</b>
-Motor vehicles	125 897 542	7 791 769	8 694 620	11,6	9 243 749	10 709 507	15,9
-Bodies for motor vehicles, trailers and semi-trailers	9 108 576	497 946	518 958	4,2	711 281	781 973	9,9
-Parts and accessories	64 796 794	4 804 038	5 178 209	7,8	5 586 437	5 682 667	1,7
-Other transport equipment	21 404 160	1 611 185	1 569 909	-2,6	2 189 363	1 801 097	-17,7
<b>Furniture and other manufacturing division</b>	<b>60 410 474</b>	<b>3 666 643</b>	<b>3 770 418</b>	<b>2,8</b>	<b>5 321 943</b>	<b>5 042 355</b>	<b>-5,3</b>
-Furniture	15 470 377	782 537	906 861	15,9	1 352 061	1 406 931	4,1
-Other manufacturing groups	44 940 097	2 884 106	2 863 557	-0,7	3 969 882	3 635 424	-8,4
<b>Total</b>	<b>1 834 434 664</b>	<b>130 317 527</b>	<b>129 974 582</b>	<b>-0,3</b>	<b>155 734 408</b>	<b>151 505 531</b>	<b>-2,7</b>

1/ Preliminary.

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

Manufacturing divisions and major groups	Weights 2011	Production indices (base: 2010=100)			Value of sales (R'000)		
		Nov. 2013 to Jan. 2014	Nov. 2014 to Jan. 2015	% change between Nov. 2013 to Jan. 2014 and Nov. 2014 to Jan. 2015	Nov. 2013 to Jan. 2014	Nov. 2014 to Jan. 2015	% change between Nov. 2013 to Jan. 2014 and Nov. 2014 to Jan. 2015
<b>Food and beverages</b>	<b>23,8</b>	<b>112,2</b>	<b>113,8</b>	<b>1,4</b>	<b>99 221 673</b>	<b>105 742 162</b>	<b>6,6</b>
-Meat, fish, fruit, etc.	5,2	114,8	116,5	1,5	25 534 509	27 223 241	6,6
-Dairy products	2,3	112,9	120,6	6,8	8 166 720	9 642 269	18,1
-Grain mill products	2,8	109,0	102,0	-6,4	15 789 867	15 349 572	-2,8
-Other food products	7,1	95,3	98,0	2,8	19 750 268	21 280 717	7,7
-Beverages	6,4	130,0	131,6	1,2	29 980 309	32 246 363	7,6
<b>Textiles, clothing, leather and footwear</b>	<b>2,9</b>	<b>85,5</b>	<b>87,6</b>	<b>2,5</b>	<b>10 948 453</b>	<b>11 672 355</b>	<b>6,6</b>
-Textiles	0,8	70,5	72,4	2,7	1 278 649	1 399 948	9,5
-Other textile products	0,4	86,6	89,0	2,8	2 685 879	2 800 926	4,3
-Knitted, crocheted articles	0,1	54,1	47,8	-11,6	586 005	480 987	-17,9
-Wearing apparel	1,0	90,5	95,7	5,7	3 697 320	4 251 337	15,0
-Leather and leather products	0,2	127,6	120,4	-5,6	1 640 295	1 596 904	-2,6
-Footwear	0,4	90,3	90,6	0,3	1 060 305	1 142 253	7,7
<b>Wood and wood products, paper, publishing and printing</b>	<b>9,5</b>	<b>99,9</b>	<b>101,1</b>	<b>1,2</b>	<b>31 883 112</b>	<b>34 018 418</b>	<b>6,7</b>
-Sawmilling and planing of wood	0,8	103,3	108,1	4,6	2 459 284	2 528 565	2,8
-Products of wood	1,8	87,5	92,1	5,3	3 943 329	4 222 916	7,1
-Paper and paper products	3,3	100,5	105,0	4,5	14 160 627	15 718 007	11,0
-Publishing	1,4	112,6	104,1	-7,5	5 196 550	5 070 686	-2,4
-Printing, recorded media	2,2	99,3	98,1	-1,2	6 123 322	6 478 244	5,8
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,5</b>	<b>109,7</b>	<b>109,5</b>	<b>-0,2</b>	<b>111 584 902</b>	<b>109 789 332</b>	<b>-1,6</b>
-Coke, petroleum products and nuclear fuel	6,3	110,5	111,1	0,5	49 144 308	44 426 377	-9,6
-Basic chemicals	4,8	115,4	117,6	1,9	22 847 359	23 847 414	4,4
-Other chemical products	7,1	109,1	111,1	1,8	23 437 390	25 286 950	7,9
-Rubber products	1,2	100,9	92,4	-8,4	3 887 873	3 727 124	-4,1
-Plastic products	3,1	103,7	96,4	-7,0	12 267 972	12 501 467	1,9
<b>Glass and non-metallic mineral products</b>	<b>4,4</b>	<b>94,7</b>	<b>85,6</b>	<b>-9,6</b>	<b>12 321 877</b>	<b>11 968 605</b>	<b>-2,9</b>
-Glass and glass products	0,9	95,7	90,4	-5,5	2 376 086	2 347 267	-1,2
-Non-metallic mineral products	3,5	94,5	84,4	-10,7	9 945 791	9 621 338	-3,3
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>20,4</b>	<b>97,7</b>	<b>95,4</b>	<b>-2,4</b>	<b>88 695 029</b>	<b>93 406 568</b>	<b>5,3</b>
-Basic iron and steel products	4,7	90,0	95,9	6,6	27 007 854	28 608 450	5,9
-Non-ferrous metal products	3,5	102,1	95,0	-7,0	19 590 838	21 670 453	10,6
-Structural metal products	2,2	83,4	72,5	-13,1	8 040 349	7 323 956	-8,9
-Other fabricated metal products	3,9	110,4	107,6	-2,5	13 117 613	13 730 915	4,7
-General purpose machinery	2,4	86,6	80,3	-7,3	7 832 950	7 944 356	1,4
-Special purpose machinery	3,0	105,2	104,5	-0,7	10 868 457	11 786 564	8,4
-Household appliances	0,7	110,1	111,6	1,4	2 236 968	2 341 874	4,7
<b>Electrical machinery</b>	<b>2,4</b>	<b>91,4</b>	<b>93,3</b>	<b>2,1</b>	<b>11 459 652</b>	<b>12 254 473</b>	<b>6,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,4</b>	<b>133,8</b>	<b>127,1</b>	<b>-5,0</b>	<b>4 829 736</b>	<b>4 815 553</b>	<b>-0,3</b>
-Radio, television and communication apparatus	0,9	154,2	147,2	-4,5	2 904 962	2 862 563	-1,5
-Professional equipment	0,5	102,1	95,9	-6,1	1 924 774	1 952 990	1,5
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,6</b>	<b>103,9</b>	<b>96,9</b>	<b>-6,7</b>	<b>48 748 329</b>	<b>50 494 650</b>	<b>3,6</b>
-Motor vehicles	3,9	121,6	113,9	-6,3	27 975 821	28 326 456	1,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	94,3	89,3	-5,3	1 904 452	1 920 746	0,9
-Parts and accessories	3,0	84,4	77,4	-8,3	13 499 287	15 066 599	11,6
-Other transport equipment	1,2	100,4	94,5	-5,9	5 368 769	5 180 849	-3,5
<b>Furniture and other manufacturing division</b>	<b>4,1</b>	<b>93,6</b>	<b>88,6</b>	<b>-5,3</b>	<b>13 140 568</b>	<b>14 226 096</b>	<b>8,3</b>
-Furniture	1,1	105,7	103,3	-2,3	3 472 568	3 713 513	6,9
-Other manufacturing groups	3,0	89,4	83,4	-6,7	9 668 000	10 512 583	8,7
<b>Total</b>	<b>100,0</b>	<b>104,3</b>	<b>103,1</b>	<b>-1,2</b>	<b>432 833 331</b>	<b>448 388 212</b>	<b>3,6</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 January 2015 was 88,3%. The improved collection rate for December 2014 was 91,0%.
- 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 are generated each month using the X-12 Seasonal Adjustment Program developed by the US Bureau of the Census, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be recognised more clearly. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series, even after adjustment for seasonal variations. Therefore, the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour. The X-12-ARIMA procedure for manufacturing production and sales is described in more detail on the Stats SA website: [Click to Download Seasonal adjustment Manufacturing January 2015](#)
- Trend cycle** 18 The trend is the long-term pattern or movement of a time series. The X-12 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 - 2015
<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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