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# Statistical release

## P3041.2

# Manufacturing: Production and sales (Preliminary)

## January 2013

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## Key figures for January 2013

**Table A – Manufacturing production and sales**

Estimates	January 2013	% change between January 2012 and January 2013	% change between November 2011 to January 2012 and November 2012 to January 2013
Physical volume of manufacturing production index (base: 2005=100)	93,5	3,9	3,2
Total estimated sales of manufactured products (R million)	113 671	8,3	8,0

Seasonally adjusted estimates	January 2013	% change between December 2012 and January 2013	% change between August to October 2012 and November 2012 to January 2013
Physical volume of manufacturing production index (base: 2005=100)	108,3	2,0	1,8
Total value of sales of manufactured products (R million)	134 494	2,7	4,8

***Manufacturing production increased by 3,9% in January 2013 compared with January 2012.***

The 3,9% year-on-year increase in manufacturing production in January 2013 was due to higher production in the following divisions:

- petroleum, chemical products, rubber and plastic products (11,1% and contributing 2,8 percentage points);
- motor vehicles, parts and accessories and ‘other’ transport equipment (9,0% and contributing 1,0 percentage point); and
- food and beverages (4,9% and contributing 0,9 of a percentage point) (see Table 4b).

However, these increases were partially counteracted by a number of decreases and mainly by:

- the basic iron and steel, non-ferrous metal products, metal products and machinery division (-2,7% and contributing -0,6 of a percentage point).

***Seasonally adjusted manufacturing production for the three months ended January 2013 increased by 1,8% compared with the previous three months ended October 2012. Five of the ten manufacturing divisions reported positive growth rates over this period.***

The largest contributions to the increase of 1,8% were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (5,2% and contributing 1,3 percentage points);
- motor vehicles, parts and accessories and ‘other’ transport equipment (4,8% and contributing 0,5 of a percentage point);
- food and beverages (2,1% and contributing 0,4 of a percentage point); and
- glass and non-metallic mineral products (3,5% and contributing 0,1 of a percentage point) (see Table B).

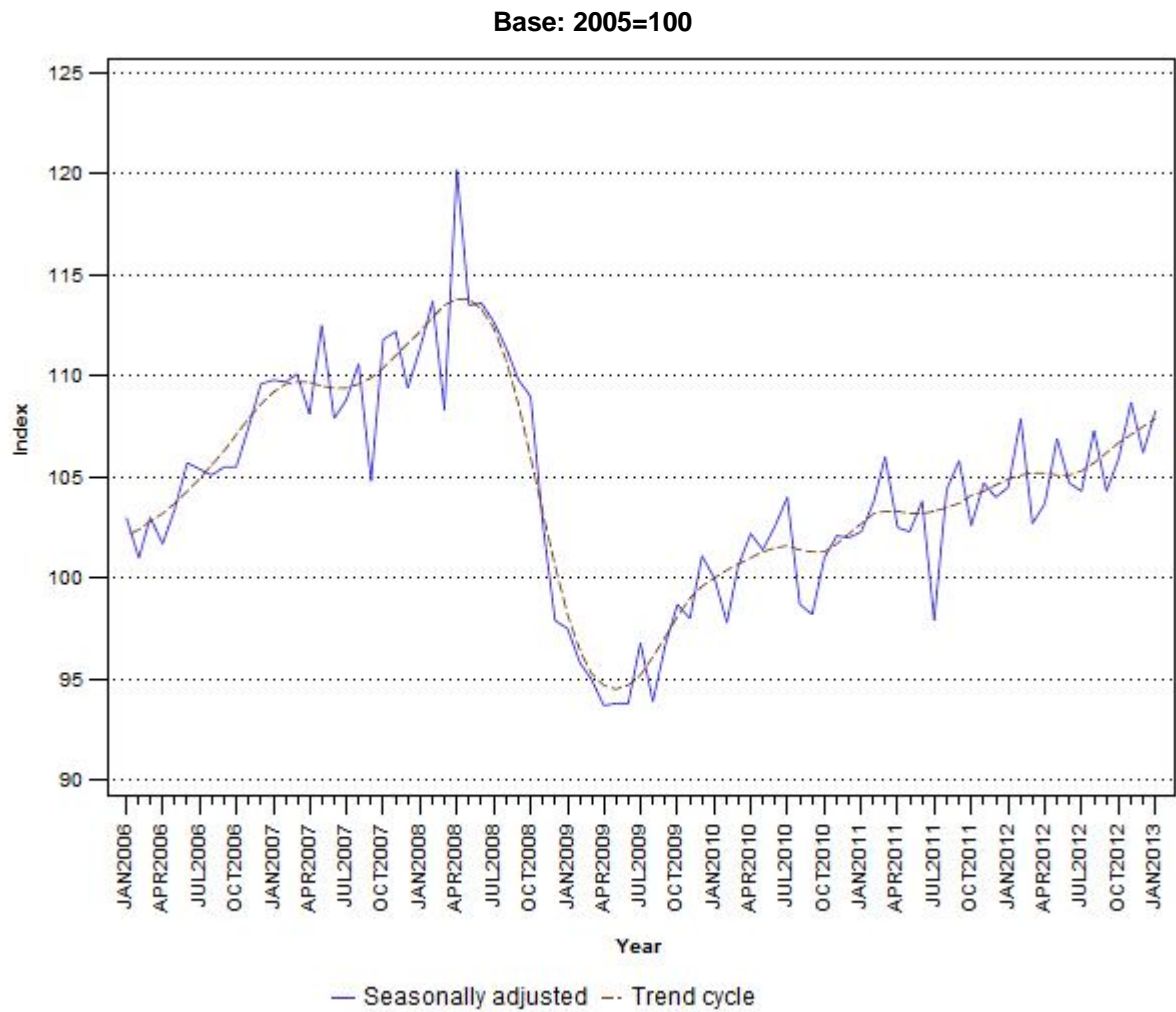
**Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production**

**Base: 2005=100**

Manufacturing divisions and major groups	Weights 2005	Average seasonally adjusted production index for August to October 2012	Average seasonally adjusted production index for November 2012 to January 2013	Quarterly % change of November 2012 to January 2013 compared with the preceding three months	Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/
<b>Food and beverages</b>	<b>15,4</b>	<b>120,7</b>	<b>123,2</b>	<b>2,1</b>	<b>0,4</b>
-Meat, fish, fruit, etc.	1,8	123,9	116,6	-5,9	-0,1
-Dairy products	0,8	120,1	119,4	-0,6	0,0
-Grain mill products	0,8	119,6	118,1	-1,3	0,0
-Other food products	5,2	106,0	113,9	7,5	0,4
-Beverages	6,8	131,2	133,0	1,4	0,1
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>82,1</b>	<b>81,1</b>	<b>-1,2</b>	<b>0,0</b>
-Textiles	1,6	64,1	62,3	-2,8	0,0
-Wearing apparel	2,3	86,3	84,8	-1,7	0,0
-Leather and leather products	0,6	98,7	102,1	3,4	0,0
-Footwear	0,4	101,9	100,4	-1,5	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>103,5</b>	<b>101,7</b>	<b>-1,7</b>	<b>-0,2</b>
-Wood and products of wood	2,0	89,1	88,4	-0,8	0,0
-Paper and paper products	3,8	109,6	114,3	4,3	0,2
-Publishing and printing	4,3	104,6	96,5	-7,7	-0,3
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>120,9</b>	<b>127,2</b>	<b>5,2</b>	<b>1,3</b>
-Coke, petroleum products and nuclear fuel	8,5	100,3	109,2	8,9	0,7
-Basic chemicals	4,5	133,3	143,1	7,4	0,4
-Other chemical products	5,3	130,7	135,2	3,4	0,2
-Rubber products	1,0	91,7	88,5	-3,5	0,0
-Plastic products	2,7	156,2	154,9	-0,8	0,0
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>94,4</b>	<b>97,7</b>	<b>3,5</b>	<b>0,1</b>
-Glass and glass products	1,0	127,3	119,5	-6,1	-0,1
-Non-metallic mineral products	3,8	86,1	92,3	7,2	0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>91,1</b>	<b>91,3</b>	<b>0,2</b>	<b>0,0</b>
-Basic iron and steel products	7,7	74,4	74,8	0,5	0,0
-Basic precious, non-ferrous metal products	3,4	98,8	104,6	5,9	0,2
-Fabricated metal products	5,7	111,9	107,2	-4,2	-0,3
-Machinery and equipment	6,1	88,4	89,5	1,2	0,1
<b>Electrical machinery</b>	<b>2,5</b>	<b>122,4</b>	<b>122,3</b>	<b>-0,1</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>115,1</b>	<b>109,9</b>	<b>-4,5</b>	<b>-0,1</b>
-Radio, television and communication apparatus	0,4	129,3	128,1	-0,9	0,0
-Professional equipment	0,7	106,1	98,3	-7,4	-0,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>103,9</b>	<b>108,9</b>	<b>4,8</b>	<b>0,5</b>
-Motor vehicles	4,9	105,5	111,7	5,9	0,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	132,1	129,8	-1,7	0,0
-Parts and accessories	4,7	96,7	103,3	6,8	0,3
-Other transport equipment	0,9	118,0	111,4	-5,6	-0,1
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>94,1</b>	<b>88,7</b>	<b>-5,7</b>	<b>-0,3</b>
-Furniture	1,3	104,8	97,2	-7,3	-0,1
-Other manufacturing groups	3,9	90,6	85,9	-5,2	-0,2
<b>Total</b>	<b>100,0</b>	<b>105,8</b>	<b>107,7</b>	<b>1,8</b>	<b>1,8</b>

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

**Figure 1 – Index of the physical volume of manufacturing production: 2006 – 2013**



**Seasonally adjusted sales of manufactured products (at current prices) for the three months ended January 2013 increased by 4,8% (R18 250 million) compared with the previous three months ended October 2012. Seven of the ten manufacturing divisions reported positive growth rates over this period.**

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were petroleum, chemical products, rubber and plastic products (12,0% or R11 069 million); basic iron and steel, non-ferrous metal products, metal products and machinery (5,2% or R4 087 million); food and beverages (2,0% or R1 624 million); and motor vehicles, parts and accessories and 'other' transport equipment (3,2% or R1 500 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 2012	Seasonally adjusted sales November 2012 to January 2013	% change between August to October 2012 and November 2012 to January 2013	Difference in seasonally adjusted sales of manufacturing divisions between August to October 2012 and November 2012 to January 2013
	R'000	R'000	%	R'000
<b>Food and beverages</b>	<b>79 591 419</b>	<b>81 215 461</b>	<b>2,0</b>	<b>1 624 042</b>
-Food and food products	59 705 272	59 979 519	0,5	274 247
-Beverages	19 886 147	21 235 941	6,8	1 349 794
<b>Textiles, clothing, leather and footwear</b>	<b>9 974 983</b>	<b>10 120 151</b>	<b>1,5</b>	<b>145 168</b>
-Textiles	3 619 032	3 548 139	-2,0	-70 893
-Wearing apparel	4 195 191	4 187 400	-0,2	-7 791
-Leather and leather products	1 296 477	1 460 188	12,6	163 711
-Footwear	864 282	924 424	7,0	60 142
<b>Wood and wood products, paper, publishing and printing</b>	<b>31 351 179</b>	<b>30 984 493</b>	<b>-1,2</b>	<b>-366 686</b>
-Wood and products of wood	6 344 165	6 423 557	1,3	79 392
-Paper and paper products	13 190 827	13 660 912	3,6	470 085
-Publishing and printing	11 816 188	10 900 027	-7,8	-916 161
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>92 119 990</b>	<b>103 189 435</b>	<b>12,0</b>	<b>11 069 445</b>
-Coke, petroleum products and nuclear fuel	38 570 183	47 013 661	21,9	8 443 478
-Basic chemicals	19 369 884	20 543 316	6,1	1 173 432
-Other chemical products	19 231 904	20 543 625	6,8	1 311 721
-Rubber products	3 862 246	3 972 541	2,9	110 295
-Plastic products	11 085 771	11 116 291	0,3	30 520
<b>Glass and non-metallic mineral products</b>	<b>11 691 490</b>	<b>12 245 456</b>	<b>4,7</b>	<b>553 966</b>
-Glass and glass products	2 179 844	2 136 675	-2,0	-43 169
-Non-metallic mineral products	9 511 646	10 108 780	6,3	597 134
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>79 246 165</b>	<b>83 333 174</b>	<b>5,2</b>	<b>4 087 009</b>
-Basic iron and steel products	22 846 547	24 924 991	9,1	2 078 444
-Basic precious, non-ferrous metal products	15 183 713	17 043 953	12,3	1 860 240
-Fabricated metal products	21 583 646	21 323 270	-1,2	-260 376
-Machinery and equipment	19 632 261	20 040 961	2,1	408 700
<b>Electrical machinery</b>	<b>10 989 739</b>	<b>10 772 354</b>	<b>-2,0</b>	<b>-217 385</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>3 880 631</b>	<b>3 956 873</b>	<b>2,0</b>	<b>76 242</b>
-Radio, television and communication apparatus	1 903 375	2 064 096	8,4	160 721
-Professional equipment	1 977 257	1 892 776	-4,3	-84 481
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>46 194 238</b>	<b>47 693 854</b>	<b>3,2</b>	<b>1 499 616</b>
-Motor vehicles, trailers, parts and accessories	41 507 749	43 202 199	4,1	1 694 450
-Other transport equipment	4 686 492	4 491 655	-4,2	-194 837
<b>Furniture and other manufacturing division</b>	<b>15 439 301</b>	<b>15 218 382</b>	<b>-1,4</b>	<b>-220 919</b>
-Furniture	3 510 019	3 418 536	-2,6	-91 483
-Other manufacturing groups	11 929 282	11 799 845	-1,1	-129 437
<b>Total</b>	<b>380 479 135</b>	<b>398 729 634</b>	<b>4,8</b>	<b>18 250 499</b>

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



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## Detailed results

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

**Base: 2005=100**

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

1/ Preliminary.

**Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2007 – 2013**

**2/**

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

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

**Table 3 – Seasonally adjusted index of the total physical volume of manufacturing production: 2007 – 2013**

**Base: 2005=100**

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



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

**Base: 2005=100**

Manufacturing divisions and major groups	Weights 2005	Average for 2012	Actual indices			Seasonally adjusted indices		
			January 2012	1/ December 2012	1/ January 2013	January 2012	December 2012	January 2013
<b>Food and beverages</b>	<b>15,4</b>	<b>121,6</b>	<b>103,9</b>	<b>135,7</b>	<b>109,0</b>	<b>122,7</b>	<b>119,2</b>	<b>129,0</b>
-Meat, fish, fruit, etc.	1,8	121,9	100,1	120,4	98,1	120,2	111,4	118,5
-Dairy products	0,8	121,6	121,0	129,2	118,0	122,5	116,6	119,7
-Grain mill products	0,8	116,1	106,5	114,9	108,9	116,4	116,0	118,9
-Other food products	5,2	113,7	83,8	93,8	89,1	117,7	106,6	125,7
-Beverages	6,8	128,3	118,0	174,8	126,0	128,1	131,4	136,5
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>81,7</b>	<b>59,7</b>	<b>62,2</b>	<b>60,5</b>	<b>80,2</b>	<b>78,8</b>	<b>81,8</b>
-Textiles	0,7	58,0	47,5	38,0	46,1	61,2	54,3	59,3
-Other textile products	0,9	70,1	63,0	52,1	48,0	81,7	67,7	62,3
-Knitted, crocheted articles	0,2	74,0	65,8	51,3	47,3	91,6	69,0	65,6
-Wearing apparel	2,1	85,4	52,4	67,4	60,9	74,3	81,7	86,7
-Leather and leather products	0,6	98,3	85,8	84,2	90,7	98,9	102,6	104,8
-Footwear	0,4	104,5	67,2	67,3	68,3	104,7	95,6	106,9
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>99,9</b>	<b>91,3</b>	<b>92,4</b>	<b>90,7</b>	<b>101,9</b>	<b>99,2</b>	<b>100,8</b>
-Sawmilling and planing of wood	0,7	90,2	80,2	69,0	74,2	91,6	89,3	85,0
-Products of wood	1,3	88,5	73,9	72,9	73,1	87,6	87,3	86,7
-Paper and paper products	3,8	111,8	103,1	112,4	101,2	114,6	111,3	112,4
-Publishing	1,9	93,3	91,1	88,0	82,3	97,0	93,2	87,1
-Printing, recorded media	2,5	95,1	85,4	81,6	94,3	96,1	93,6	105,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>119,1</b>	<b>101,6</b>	<b>115,9</b>	<b>112,9</b>	<b>114,6</b>	<b>127,3</b>	<b>127,2</b>
-Coke, petroleum products and nuclear fuel	8,5	96,7	82,9	105,7	103,3	87,8	109,2	109,8
-Basic chemicals	4,5	134,6	126,9	135,9	127,5	138,8	148,9	139,0
-Other chemical products	5,3	128,2	101,4	120,1	113,7	122,7	132,3	138,1
-Rubber products	1,0	95,0	89,1	58,4	80,3	99,7	88,3	89,7
-Plastic products	2,7	154,5	123,4	126,2	128,3	148,0	152,1	154,4
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,8</b>	<b>81,5</b>	<b>80,6</b>	<b>80,9</b>	<b>101,6</b>	<b>96,9</b>	<b>101,0</b>
-Glass and glass products	1,0	121,0	108,1	113,6	106,8	122,1	120,9	120,2
-Non-metallic mineral products	3,8	90,7	74,8	72,3	74,4	96,5	90,9	96,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>91,4</b>	<b>81,6</b>	<b>76,1</b>	<b>79,4</b>	<b>92,2</b>	<b>89,9</b>	<b>89,5</b>
-Basic iron and steel products	7,7	73,8	77,3	63,4	73,5	79,7	73,3	75,4
-Non-ferrous metal products	3,4	97,6	104,0	97,3	104,1	106,8	102,3	106,5
-Structural metal products	2,0	90,9	73,3	63,2	69,6	92,7	82,6	87,9
-Other fabricated metal products	3,8	120,3	94,6	83,5	98,0	115,3	115,5	119,1
-General purpose machinery	2,4	76,9	55,8	70,4	55,6	65,6	79,1	65,5
-Special purpose machinery	3,1	100,5	74,0	86,3	65,5	95,2	94,5	85,2
-Household appliances	0,6	112,5	94,3	82,4	94,2	110,5	112,9	110,6
<b>Electrical machinery</b>	<b>2,5</b>	<b>127,9</b>	<b>97,1</b>	<b>94,6</b>	<b>95,4</b>	<b>122,3</b>	<b>120,4</b>	<b>120,2</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>111,1</b>	<b>86,9</b>	<b>94,0</b>	<b>83,2</b>	<b>110,2</b>	<b>108,8</b>	<b>105,5</b>
-Radio, television and communication apparatus	0,4	120,6	93,7	102,6	100,7	115,5	120,3	123,8
-Professional equipment	0,7	105,1	82,6	88,6	72,1	106,9	101,5	93,9
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>105,5</b>	<b>87,5</b>	<b>71,0</b>	<b>95,4</b>	<b>101,8</b>	<b>108,8</b>	<b>110,3</b>
-Motor vehicles	4,9	106,5	82,0	66,8	95,9	97,5	112,2	113,1
-Bodies for motor vehicles, trailers and semi-trailers	0,5	133,4	93,9	84,1	85,5	136,5	122,9	124,0
-Parts and accessories	4,7	100,0	90,3	69,3	95,9	100,7	103,7	106,2
-Other transport equipment	0,9	114,2	98,9	95,1	95,0	112,7	110,0	108,9
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>93,0</b>	<b>74,0</b>	<b>69,1</b>	<b>72,5</b>	<b>89,2</b>	<b>85,3</b>	<b>86,5</b>
-Furniture	1,3	103,0	68,1	83,0	62,1	99,4	99,1	90,4
-Other manufacturing groups	3,9	89,7	75,9	64,4	76,0	85,8	80,7	85,2
<b>Total</b>	<b>100,0</b>	<b>105,6</b>	<b>90,0</b>	<b>95,0</b>	<b>93,5</b>	<b>104,5</b>	<b>106,2</b>	<b>108,3</b>

1/ Preliminary.

**Table 4b – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups (concluded)**

**Base: 2005=100**

Manufacturing divisions and major groups	Weights 2005	Average for 2012	Actual indices			Seasonally adjusted indices		
			January 2012	1/ January 2013	% change between January 2012 and January 2013	December 2012	January 2013	% change between December 2012 and January 2013
<b>Food and beverages</b>	<b>15,4</b>	<b>121,6</b>	<b>103,9</b>	<b>109,0</b>	<b>4,9</b>	<b>119,2</b>	<b>129,0</b>	<b>8,2</b>
-Meat, fish, fruit, etc.	1,8	121,9	100,1	98,1	-2,0	111,4	118,5	6,4
-Dairy products	0,8	121,6	121,0	118,0	-2,5	116,6	119,7	2,7
-Grain mill products	0,8	116,1	106,5	108,9	2,3	116,0	118,9	2,5
-Other food products	5,2	113,7	83,8	89,1	6,3	106,6	125,7	17,9
-Beverages	6,8	128,3	118,0	126,0	6,8	131,4	136,5	3,9
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>81,7</b>	<b>59,7</b>	<b>60,5</b>	<b>1,3</b>	<b>78,8</b>	<b>81,8</b>	<b>3,8</b>
-Textiles	0,7	58,0	47,5	46,1	-2,9	54,3	59,3	9,2
-Other textile products	0,9	70,1	63,0	48,0	-23,8	67,7	62,3	-8,0
-Knitted, crocheted articles	0,2	74,0	65,8	47,3	-28,1	69,0	65,6	-4,9
-Wearing apparel	2,1	85,4	52,4	60,9	16,2	81,7	86,7	6,1
-Leather and leather products	0,6	98,3	85,8	90,7	5,7	102,6	104,8	2,1
-Footwear	0,4	104,5	67,2	68,3	1,6	95,6	106,9	11,8
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>99,9</b>	<b>91,3</b>	<b>90,7</b>	<b>-0,7</b>	<b>99,2</b>	<b>100,8</b>	<b>1,6</b>
-Sawmilling and planing of wood	0,7	90,2	80,2	74,2	-7,5	89,3	85,0	-4,8
-Products of wood	1,3	88,5	73,9	73,1	-1,1	87,3	86,7	-0,7
-Paper and paper products	3,8	111,8	103,1	101,2	-1,8	111,3	112,4	1,0
-Publishing	1,9	93,3	91,1	82,3	-9,7	93,2	87,1	-6,5
-Printing, recorded media	2,5	95,1	85,4	94,3	10,4	93,6	105,0	12,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>119,1</b>	<b>101,6</b>	<b>112,9</b>	<b>11,1</b>	<b>127,3</b>	<b>127,2</b>	<b>-0,1</b>
-Coke, petroleum products and nuclear fuel	8,5	96,7	82,9	103,3	24,6	109,2	109,8	0,5
-Basic chemicals	4,5	134,6	126,9	127,5	0,5	148,9	139,0	-6,6
-Other chemical products	5,3	128,2	101,4	113,7	12,1	132,3	138,1	4,4
-Rubber products	1,0	95,0	89,1	80,3	-9,9	88,3	89,7	1,6
-Plastic products	2,7	154,5	123,4	128,3	4,0	152,1	154,4	1,5
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,8</b>	<b>81,5</b>	<b>80,9</b>	<b>-0,7</b>	<b>96,9</b>	<b>101,0</b>	<b>4,2</b>
-Glass and glass products	1,0	121,0	108,1	106,8	-1,2	120,9	120,2	-0,6
-Non-metallic mineral products	3,8	90,7	74,8	74,4	-0,5	90,9	96,2	5,8
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>91,4</b>	<b>81,6</b>	<b>79,4</b>	<b>-2,7</b>	<b>89,9</b>	<b>89,5</b>	<b>-0,4</b>
-Basic iron and steel products	7,7	73,8	77,3	73,5	-4,9	73,3	75,4	2,9
-Non-ferrous metal products	3,4	97,6	104,0	104,1	0,1	102,3	106,5	4,1
-Structural metal products	2,0	90,9	73,3	69,6	-5,0	82,6	87,9	6,4
-Other fabricated metal products	3,8	120,3	94,6	98,0	3,6	115,5	119,1	3,1
-General purpose machinery	2,4	76,9	55,8	55,6	-0,4	79,1	65,5	-17,2
-Special purpose machinery	3,1	100,5	74,0	65,5	-11,5	94,5	85,2	-9,8
-Household appliances	0,6	112,5	94,3	94,2	-0,1	112,9	110,6	-2,0
<b>Electrical machinery</b>	<b>2,5</b>	<b>127,9</b>	<b>97,1</b>	<b>95,4</b>	<b>-1,8</b>	<b>120,4</b>	<b>120,2</b>	<b>-0,2</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>111,1</b>	<b>86,9</b>	<b>83,2</b>	<b>-4,3</b>	<b>108,8</b>	<b>105,5</b>	<b>-3,0</b>
-Radio, television and communication apparatus	0,4	120,6	93,7	100,7	7,5	120,3	123,8	2,9
-Professional equipment	0,7	105,1	82,6	72,1	-12,7	101,5	93,9	-7,5
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>105,5</b>	<b>87,5</b>	<b>95,4</b>	<b>9,0</b>	<b>108,8</b>	<b>110,3</b>	<b>1,4</b>
-Motor vehicles	4,9	106,5	82,0	95,9	17,0	112,2	113,1	0,8
-Bodies for motor vehicles, trailers and semi-trailers	0,5	133,4	93,9	85,5	-8,9	122,9	124,0	0,9
-Parts and accessories	4,7	100,0	90,3	95,9	6,2	103,7	106,2	2,4
-Other transport equipment	0,9	114,2	98,9	95,0	-3,9	110,0	108,9	-1,0
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>93,0</b>	<b>74,0</b>	<b>72,5</b>	<b>-2,0</b>	<b>85,3</b>	<b>86,5</b>	<b>1,4</b>
-Furniture	1,3	103,0	68,1	62,1	-8,8	99,1	90,4	-8,8
-Other manufacturing groups	3,9	89,7	75,9	76,0	0,1	80,7	85,2	5,6
<b>Total</b>	<b>100,0</b>	<b>105,6</b>	<b>90,0</b>	<b>93,5</b>	<b>3,9</b>	<b>106,2</b>	<b>108,3</b>	<b>2,0</b>

1/ Preliminary.

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

Month	2007	2008	2009	2010	2011	2012	2013
Jan	82 751 979	92 718 406	87 095 583	88 149 838	94 246 838	104 935 789	1/ 113 671 173
Feb	94 752 037	109 968 010	98 910 325	99 414 819	108 823 746	122 863 314	
Mar	101 801 537	116 559 343	106 853 461	112 150 984	123 042 345	130 042 791	
Apr	92 055 334	118 743 978	91 481 056	99 179 387	105 427 353	114 751 285	
May	103 294 995	122 009 401	97 891 568	106 725 647	114 987 796	127 234 354	
Jun	100 363 915	126 717 920	99 620 665	110 984 952	119 312 466	127 603 367	
Jul	101 001 703	130 306 185	101 194 755	110 310 285	110 290 349	124 597 549	
Aug	106 756 672	128 075 397	102 171 776	107 873 773	121 774 032	130 989 591	
Sep	102 072 116	127 557 225	106 385 385	110 151 480	129 822 841	128 466 040	
Oct	115 324 079	133 838 287	111 499 001	118 674 521	130 325 799	140 601 491	
Nov	117 861 959	124 514 657	113 598 170	123 230 894	135 588 107	1/ 149 196 393	
Dec	93 460 862	97 565 655	96 538 722	101 389 781	114 218 802	1/ 120 176 024	
Year	<b>1 211 497 188</b>	<b>1 428 574 464</b>	<b>1 213 240 467</b>	<b>1 288 236 361</b>	<b>1 407 860 474</b>	<b>1 521 457 988</b>	

1/ Preliminary.

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

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

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

**Table 7 – Total seasonally adjusted sales of the manufacturing industry at current prices (R'000): 2007 – 2013**

Month	2007	2008	2009	2010	2011	2012	2013
Jan	98 440 108	110 182 033	104 123 536	105 159 658	111 910 598	123 970 492	134 494 344
Feb	99 128 650	115 348 620	103 391 495	103 517 474	113 441 043	128 460 776	
Mar	98 727 222	112 796 733	102 923 153	107 164 206	117 495 681	124 171 793	
Apr	98 598 324	127 385 386	98 408 248	106 919 639	113 635 844	123 861 049	
May	102 835 317	121 315 841	98 189 135	106 909 033	114 983 305	127 432 810	
Jun	98 383 874	123 616 402	97 660 603	108 654 248	116 742 606	124 831 126	
Jul	98 963 498	127 290 735	99 701 297	109 108 417	109 523 074	123 970 804	
Aug	103 281 110	123 765 799	99 418 612	105 481 676	119 172 096	128 208 821	
Sep	96 846 648	121 088 951	101 211 358	104 759 554	123 706 053	122 686 267	
Oct	104 768 395	121 686 817	101 721 753	108 549 573	119 727 278	129 584 047	
Nov	106 112 914	111 976 538	101 964 942	109 984 442	120 862 231	133 298 423	
Dec	104 901 829	108 098 938	106 157 942	111 182 054	125 114 939	130 936 867	

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

Manufacturing divisions and major groups	Year 2012	Actual values			Seasonally adjusted values		
		January 2012	1/ December 2012	1/ January 2013	January 2012	December 2012	January 2013
<b>Food and beverages</b>	<b>310 821 151</b>	<b>21 859 497</b>	<b>30 300 000</b>	<b>24 157 097</b>	<b>25 183 111</b>	<b>26 388 645</b>	<b>27 846 521</b>
-Meat, fish, fruit, etc.	80 244 635	5 234 969	7 300 943	5 611 409	6 317 426	6 575 749	6 789 648
-Dairy products	27 302 563	2 131 326	2 484 878	2 279 632	2 224 629	2 254 685	2 384 098
-Grain mill products	54 399 835	4 023 856	4 754 955	4 343 345	4 427 050	4 703 277	4 771 642
-Other food products	70 629 383	5 012 557	5 987 526	5 492 131	5 807 712	6 150 357	6 341 689
-Beverages	78 244 735	5 456 789	9 771 698	6 430 580	6 406 295	6 704 577	7 559 444
<b>Textiles, clothing, leather and footwear</b>	<b>39 826 518</b>	<b>2 379 634</b>	<b>2 803 917</b>	<b>2 418 826</b>	<b>3 252 336</b>	<b>3 390 110</b>	<b>3 314 340</b>
-Textiles	4 467 299	288 825	259 409	300 551	380 889	366 746	393 752
-Other textile products	10 005 194	666 080	647 888	582 666	881 093	790 270	770 069
-Knitted, crocheted articles	1 720 830	121 626	106 264	94 573	164 666	139 595	127 057
-Wearing apparel	14 738 223	738 933	1 100 742	840 907	1 097 435	1 243 772	1 250 329
-Leather and leather products	5 345 948	388 826	429 556	412 858	433 291	545 679	458 338
-Footwear	3 549 024	175 344	260 058	187 271	294 962	304 048	314 794
<b>Wood and wood products, paper, publishing and printing</b>	<b>120 114 215</b>	<b>8 650 796</b>	<b>9 341 125</b>	<b>8 998 499</b>	<b>9 876 623</b>	<b>10 110 913</b>	<b>10 240 382</b>
-Sawmilling and planing of wood	8 934 002	638 657	586 179	595 937	741 996	722 218	693 858
-Products of wood	16 624 262	1 128 700	1 129 537	1 141 436	1 352 497	1 364 002	1 363 223
-Paper and paper products	52 405 714	3 726 276	4 395 115	3 954 141	4 321 504	4 477 910	4 585 039
-Publishing	18 214 486	1 418 822	1 485 809	1 339 995	1 531 459	1 541 013	1 436 786
-Printing, recorded media	23 935 751	1 738 341	1 744 485	1 966 990	1 929 166	2 005 772	2 161 476
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>371 111 358</b>	<b>26 652 041</b>	<b>30 744 943</b>	<b>30 450 517</b>	<b>30 317 077</b>	<b>34 425 603</b>	<b>34 684 359</b>
-Coke, petroleum products and nuclear fuel	159 593 866	12 799 595	14 146 537	14 490 652	13 647 931	16 234 639	15 414 793
-Basic chemicals	76 554 102	5 208 702	6 210 534	5 845 047	6 046 238	6 686 068	6 797 229
-Other chemical products	75 688 106	4 741 431	6 355 090	5 796 672	5 888 331	6 675 719	7 224 069
-Rubber products	15 688 483	1 090 078	987 197	1 202 595	1 331 933	1 265 030	1 466 370
-Plastic products	43 586 801	2 812 235	3 045 585	3 115 551	3 402 644	3 564 147	3 781 898
<b>Glass and non-metallic mineral products</b>	<b>47 474 332</b>	<b>3 031 848</b>	<b>3 155 818</b>	<b>3 268 192</b>	<b>3 932 060</b>	<b>3 923 401</b>	<b>4 240 082</b>
-Glass and glass products	8 181 045	509 521	680 338	631 384	621 220	693 796	769 140
-Non-metallic mineral products	39 293 287	2 522 327	2 475 480	2 636 808	3 310 840	3 229 605	3 470 941
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>325 870 174</b>	<b>22 855 417</b>	<b>23 175 599</b>	<b>23 045 966</b>	<b>27 088 133</b>	<b>27 853 561</b>	<b>27 249 065</b>
-Basic iron and steel products	97 345 301	7 835 272	6 260 481	7 715 290	8 525 607	8 271 559	8 342 685
-Non-ferrous metal products	61 974 511	4 464 653	5 459 999	4 813 740	5 245 213	5 828 137	5 644 353
-Structural metal products	29 182 727	1 862 571	1 841 505	1 866 733	2 428 578	2 388 341	2 420 808
-Other fabricated metal products	56 428 755	3 637 163	3 497 434	3 787 408	4 523 690	4 634 650	4 706 575
-General purpose machinery	30 729 277	1 862 431	2 344 481	1 923 329	2 285 547	2 589 697	2 372 139
-Special purpose machinery	40 218 784	2 547 232	3 165 333	2 237 718	3 311 751	3 358 275	2 928 618
-Household appliances	9 990 819	646 095	606 366	701 748	767 745	782 902	833 888
<b>Electrical machinery</b>	<b>44 835 132</b>	<b>2 621 386</b>	<b>2 695 102</b>	<b>2 788 775</b>	<b>3 462 107</b>	<b>3 408 266</b>	<b>3 676 995</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>15 243 304</b>	<b>899 395</b>	<b>1 175 049</b>	<b>934 909</b>	<b>1 204 048</b>	<b>1 267 104</b>	<b>1 261 425</b>
-Radio, television and communication apparatus	7 500 083	406 876	567 104	480 961	563 890	608 796	666 663
-Professional equipment	7 743 221	492 519	607 945	453 948	640 158	658 308	594 762
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>183 649 081</b>	<b>11 701 135</b>	<b>11 778 914</b>	<b>13 510 503</b>	<b>14 670 680</b>	<b>14 992 639</b>	<b>17 186 960</b>
-Motor vehicles	93 049 040	5 094 418	6 378 293	6 912 821	7 070 343	7 511 094	9 631 826
-Bodies for motor vehicles, trailers and semi-trailers	8 600 730	474 841	519 729	415 202	729 919	659 703	637 591
-Parts and accessories	63 931 591	4 846 609	3 607 162	4 897 097	5 403 227	5 340 345	5 443 937
-Other transport equipment	18 067 720	1 285 267	1 273 730	1 285 383	1 467 192	1 481 497	1 473 607
<b>Furniture and other manufacturing division</b>	<b>62 512 723</b>	<b>4 284 640</b>	<b>5 005 557</b>	<b>4 097 889</b>	<b>4 984 316</b>	<b>5 176 625</b>	<b>4 794 215</b>
-Furniture	13 926 915	729 233	1 022 677	723 546	1 085 331	1 174 504	1 075 133
-Other manufacturing groups	48 585 808	3 555 407	3 982 880	3 374 343	3 898 985	4 002 120	3 719 082
<b>Total</b>	<b>1 521 457 988</b>	<b>104 935 789</b>	<b>120 176 024</b>	<b>113 671 173</b>	<b>123 970 492</b>	<b>130 936 867</b>	<b>134 494 344</b>

1/ Preliminary.

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

Manufacturing divisions and major groups	Year 2012	Actual values			Seasonally adjusted values		
		January 2012	1/ January 2013	% change between January 2012 and January 2013	December 2012	January 2013	% change between December 2012 and January 2013
<b>Food and beverages</b>	<b>310 821 151</b>	<b>21 859 497</b>	<b>24 157 097</b>	<b>10,5</b>	<b>26 388 645</b>	<b>27 846 521</b>	<b>5,5</b>
-Meat, fish, fruit, etc.	80 244 635	5 234 969	5 611 409	7,2	6 575 749	6 789 648	3,3
-Dairy products	27 302 563	2 131 326	2 279 632	7,0	2 254 685	2 384 098	5,7
-Grain mill products	54 399 835	4 023 856	4 343 345	7,9	4 703 277	4 771 642	1,5
-Other food products	70 629 383	5 012 557	5 492 131	9,6	6 150 357	6 341 689	3,1
-Beverages	78 244 735	5 456 789	6 430 580	17,8	6 704 577	7 559 444	12,8
<b>Textiles, clothing, leather and footwear</b>	<b>39 826 518</b>	<b>2 379 634</b>	<b>2 418 826</b>	<b>1,6</b>	<b>3 390 110</b>	<b>3 314 340</b>	<b>-2,2</b>
-Textiles	4 467 299	288 825	300 551	4,1	366 746	393 752	7,4
-Other textile products	10 005 194	666 080	582 666	-12,5	790 270	770 069	-2,6
-Knitted, crocheted articles	1 720 830	121 626	94 573	-22,2	139 595	127 057	-9,0
-Wearing apparel	14 738 223	738 933	840 907	13,8	1 243 772	1 250 329	0,5
-Leather and leather products	5 345 948	388 826	412 858	6,2	545 679	458 338	-16,0
-Footwear	3 549 024	175 344	187 271	6,8	304 048	314 794	3,5
<b>Wood and wood products, paper, publishing and printing</b>	<b>120 114 215</b>	<b>8 650 796</b>	<b>8 998 499</b>	<b>4,0</b>	<b>10 110 913</b>	<b>10 240 382</b>	<b>1,3</b>
-Sawmilling and planing of wood	8 934 002	638 657	595 937	-6,7	722 218	693 858	-3,9
-Products of wood	16 624 262	1 128 700	1 141 436	1,1	1 364 002	1 363 223	-0,1
-Paper and paper products	52 405 714	3 726 276	3 954 141	6,1	4 477 910	4 585 039	2,4
-Publishing	18 214 486	1 418 822	1 339 995	-5,6	1 541 013	1 436 786	-6,8
-Printing, recorded media	23 935 751	1 738 341	1 966 990	13,2	2 005 772	2 161 476	7,8
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>371 111 358</b>	<b>26 652 041</b>	<b>30 450 517</b>	<b>14,3</b>	<b>34 425 603</b>	<b>34 684 359</b>	<b>0,8</b>
-Coke, petroleum products and nuclear fuel	159 593 866	12 799 595	14 490 652	13,2	16 234 639	15 414 793	-5,0
-Basic chemicals	76 554 102	5 208 702	5 845 047	12,2	6 686 068	6 797 229	1,7
-Other chemical products	75 688 106	4 741 431	5 796 672	22,3	6 675 719	7 224 069	8,2
-Rubber products	15 688 483	1 090 078	1 202 595	10,3	1 265 030	1 466 370	15,9
-Plastic products	43 586 801	2 812 235	3 115 551	10,8	3 564 147	3 781 898	6,1
<b>Glass and non-metallic mineral products</b>	<b>47 474 332</b>	<b>3 031 848</b>	<b>3 268 192</b>	<b>7,8</b>	<b>3 923 401</b>	<b>4 240 082</b>	<b>8,1</b>
-Glass and glass products	8 181 045	509 521	631 384	23,9	693 796	769 140	10,9
-Non-metallic mineral products	39 293 287	2 522 327	2 636 808	4,5	3 229 605	3 470 941	7,5
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>325 870 174</b>	<b>22 855 417</b>	<b>23 045 966</b>	<b>0,8</b>	<b>27 853 561</b>	<b>27 249 065</b>	<b>-2,2</b>
-Basic iron and steel products	97 345 301	7 835 272	7 715 290	-1,5	8 271 559	8 342 685	0,9
-Non-ferrous metal products	61 974 511	4 464 653	4 813 740	7,8	5 828 137	5 644 353	-3,2
-Structural metal products	29 182 727	1 862 571	1 866 733	0,2	2 388 341	2 420 808	1,4
-Other fabricated metal products	56 428 755	3 637 163	3 787 408	4,1	4 634 650	4 706 575	1,6
-General purpose machinery	30 729 277	1 862 431	1 923 329	3,3	2 589 697	2 372 139	-8,4
-Special purpose machinery	40 218 784	2 547 232	2 237 718	-12,2	3 358 275	2 928 618	-12,8
-Household appliances	9 990 819	646 095	701 748	8,6	782 902	833 888	6,5
<b>Electrical machinery</b>	<b>44 835 132</b>	<b>2 621 386</b>	<b>2 788 775</b>	<b>6,4</b>	<b>3 408 266</b>	<b>3 676 995</b>	<b>7,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>15 243 304</b>	<b>899 395</b>	<b>934 909</b>	<b>3,9</b>	<b>1 267 104</b>	<b>1 261 425</b>	<b>-0,4</b>
-Radio, television and communication apparatus	7 500 083	406 876	480 961	18,2	608 796	666 663	9,5
-Professional equipment	7 743 221	492 519	453 948	-7,8	658 308	594 762	-9,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>183 649 081</b>	<b>11 701 135</b>	<b>13 510 503</b>	<b>15,5</b>	<b>14 992 639</b>	<b>17 186 960</b>	<b>14,6</b>
-Motor vehicles	93 049 040	5 094 418	6 912 821	35,7	7 511 094	9 631 826	28,2
-Bodies for motor vehicles, trailers and semi-trailers	8 600 730	474 841	415 202	-12,6	659 703	637 591	-3,4
-Parts and accessories	63 931 591	4 846 609	4 897 097	1,0	5 340 345	5 443 937	1,9
-Other transport equipment	18 067 720	1 285 267	1 285 383	-0,0	1 481 497	1 473 607	-0,5
<b>Furniture and other manufacturing division</b>	<b>62 512 723</b>	<b>4 284 640</b>	<b>4 097 889</b>	<b>-4,4</b>	<b>5 176 625</b>	<b>4 794 215</b>	<b>-7,4</b>
-Furniture	13 926 915	729 233	723 546	-0,8	1 174 504	1 075 133	-8,5
-Other manufacturing groups	48 585 808	3 555 407	3 374 343	-5,1	4 002 120	3 719 082	-7,1
<b>Total</b>	<b>1 521 457 988</b>	<b>104 935 789</b>	<b>113 671 173</b>	<b>8,3</b>	<b>130 936 867</b>	<b>134 494 344</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 2005	Production indices (base: 2005=100)			Value of sales (R'000)		
		Nov. 2011 to Jan. 2012	Nov. 2012 to Jan. 2013	% change between Nov. 2011 to Jan. 2012 and Nov. 2012 to Jan. 2013	Nov. 2011 to Jan. 2012	Nov. 2012 to Jan. 2013	% change between Nov. 2011 to Jan. 2012 and Nov. 2012 to Jan. 2013
<b>Food and beverages</b>	<b>15,4</b>	<b>126,2</b>	<b>127,3</b>	<b>0,9</b>	<b>77 994 716</b>	<b>84 789 868</b>	<b>8,7</b>
-Meat, fish, fruit, etc.	1,8	121,0	116,2	-4,0	19 370 310	20 552 364	6,1
-Dairy products	0,8	130,3	127,2	-2,4	6 926 054	7 268 684	4,9
-Grain mill products	0,8	113,1	117,2	3,6	12 784 436	14 284 219	11,7
-Other food products	5,2	105,0	101,1	-3,7	17 086 863	18 432 561	7,9
-Beverages	6,8	144,8	151,3	4,5	21 827 053	24 252 040	11,1
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>74,3</b>	<b>74,3</b>	<b>0,0</b>	<b>9 048 150</b>	<b>9 399 008</b>	<b>3,9</b>
-Textiles	0,7	53,7	49,8	-7,3	993 002	1 005 282	1,2
-Other textile products	0,9	67,7	61,2	-9,6	2 398 840	2 242 992	-6,5
-Knitted, crocheted articles	0,2	69,6	61,3	-11,9	416 439	371 062	-10,9
-Wearing apparel	2,1	74,8	79,8	6,7	3 238 137	3 548 438	9,6
-Leather and leather products	0,6	92,9	96,1	3,4	1 187 713	1 349 732	13,6
-Footwear	0,4	93,0	86,0	-7,5	814 019	881 502	8,3
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>103,1</b>	<b>101,3</b>	<b>-1,7</b>	<b>29 691 598</b>	<b>30 632 586</b>	<b>3,2</b>
-Sawmilling and planing of wood	0,7	84,8	81,7	-3,7	2 072 263	2 053 749	-0,9
-Products of wood	1,3	84,8	84,2	-0,7	3 857 177	4 014 002	4,1
-Paper and paper products	3,8	115,5	114,4	-1,0	12 940 533	13 465 738	4,1
-Publishing	1,9	104,1	97,9	-6,0	4 869 346	4 898 624	0,6
-Printing, recorded media	2,5	97,8	97,8	0,0	5 952 279	6 200 473	4,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>109,4</b>	<b>122,1</b>	<b>11,6</b>	<b>82 522 719</b>	<b>97 609 794</b>	<b>18,3</b>
-Coke, petroleum products and nuclear fuel	8,5	79,2	103,4	30,6	32 972 224	42 939 700	30,2
-Basic chemicals	4,5	135,9	142,3	4,7	18 323 570	20 419 258	11,4
-Other chemical products	5,3	121,6	129,3	6,3	17 655 313	19 961 966	13,1
-Rubber products	1,0	89,9	79,5	-11,6	3 770 464	3 602 069	-4,5
-Plastic products	2,7	143,3	148,3	3,5	9 801 148	10 686 801	9,0
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>93,3</b>	<b>90,2</b>	<b>-3,3</b>	<b>10 750 845</b>	<b>11 283 907</b>	<b>5,0</b>
-Glass and glass products	1,0	121,7	121,6	-0,1	1 956 450	2 241 911	14,6
-Non-metallic mineral products	3,8	86,2	82,3	-4,5	8 794 395	9 041 996	2,8
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>87,6</b>	<b>86,0</b>	<b>-1,8</b>	<b>76 298 954</b>	<b>77 666 216</b>	<b>1,8</b>
-Basic iron and steel products	7,7	74,9	70,6	-5,7	24 454 930	22 855 642	-6,5
-Non-ferrous metal products	3,4	105,8	103,4	-2,3	14 573 889	16 431 938	12,7
-Structural metal products	2,0	81,6	76,5	-6,3	6 159 973	6 476 509	5,1
-Other fabricated metal products	3,8	106,3	108,8	2,4	12 682 465	12 968 816	2,3
-General purpose machinery	2,4	69,1	71,4	3,3	6 966 046	7 209 299	3,5
-Special purpose machinery	3,1	92,3	91,0	-1,4	9 230 982	9 470 844	2,6
-Household appliances	0,6	97,1	101,8	4,8	2 230 669	2 253 168	1,0
<b>Electrical machinery</b>	<b>2,5</b>	<b>116,3</b>	<b>110,8</b>	<b>-4,7</b>	<b>9 778 037</b>	<b>9 670 497</b>	<b>-1,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>101,4</b>	<b>103,7</b>	<b>2,3</b>	<b>3 401 635</b>	<b>3 714 168</b>	<b>9,2</b>
-Radio, television and communication apparatus	0,4	101,2	125,9	24,4	1 575 098	1 979 427	25,7
-Professional equipment	0,7	101,5	89,7	-11,6	1 826 537	1 734 741	-5,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>87,3</b>	<b>95,3</b>	<b>9,2</b>	<b>40 430 536</b>	<b>43 288 765</b>	<b>7,1</b>
-Motor vehicles	4,9	78,1	94,4	20,9	19 955 620	22 488 511	12,7
-Bodies for motor vehicles, trailers and semi-trailers	0,5	114,4	113,1	-1,1	1 900 138	1 803 139	-5,1
-Parts and accessories	4,7	91,6	92,6	1,1	14 685 175	14 757 586	0,5
-Other transport equipment	0,9	100,6	105,3	4,7	3 889 603	4 239 529	9,0
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>81,4</b>	<b>84,7</b>	<b>4,1</b>	<b>14 825 508</b>	<b>14 988 781</b>	<b>1,1</b>
-Furniture	1,3	89,2	92,9	4,1	3 042 861	3 300 460	8,5
-Other manufacturing groups	3,9	78,8	81,9	3,9	11 782 647	11 688 321	-0,8
<b>Total</b>	<b>100,0</b>	<b>100,1</b>	<b>103,3</b>	<b>3,2</b>	<b>354 742 698</b>	<b>383 043 590</b>	<b>8,0</b>

## Explanatory notes

- Introduction**
- 1 Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry, covering manufacturing enterprises. This statistical release contains the results of a sample drawn from the business sampling frame (BSF), with enhanced coverage of South African businesses (see 4 below). The release contains monthly indices of the physical volume of manufacturing production and monthly value of sales of manufactured products by divisions and major groups within manufacturing.
  - 2 In accordance with international practice, the indices are re-based every five years to a new base year. The base period of the index is 2005. Both estimated and seasonally adjusted figures are presented.
  - 3 In order to improve timeliness, some information for the latest month had to be estimated for respondents who have not reported by the cut-off date for production of results. These estimates will be revised in future statistical releases when their reported information becomes available.
  - 4 As indicated earlier, Stats SA is continuously upgrading its BR, based on units registered for value added tax (VAT) and income tax (IT), obtained from the South African Revenue Service (SARS).
- Purpose of the survey**
- 5 The results of the monthly manufacturing production and sales survey are used to calculate indices of the physical volume of manufacturing production. These indices provide an indicator of the real level of manufacturing activity in the economy. They are used in monitoring the state of the economy and formulation of economic policy. They are also important inputs to estimation of the gross domestic product (GDP).
- Special Data Dissemination Standard of the IMF**
- 6 The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.
- Scope of the survey**
- 7 This survey covers manufacturing enterprises, i.e. those conducting activities in -
    - the manufacturing, processing, making or packing of products;
    - the slaughtering of animals, including poultry; and
    - installation, assembly, completion, repair and related work.
- Classification**
- 8 The 1993 edition of the *Standard Industrial Classification of all Economic Activities (SIC)*, Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 *International Standard Industrial Classification of all Economic Activities (ISIC)* with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two digit) and major group (three digit) level.
- Collection rate**
- 9 The preliminary collection rate for the survey on manufacturing production and sales for January 2013 was 90,8%. Improved collection rate for December 2012 was 93,7%.
- Statistical unit**
- 10 The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

**Survey methodology and design**

- 11 The survey is conducted monthly. Questionnaires are sent to a sample of 2 996 enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Fax and telephone reminders are used to follow up non-respondents.
- 12 The value of sales of manufactured products is obtained monthly from the sample of 2 996 enterprises, which was drawn in April 2012 from a population then of 49 455 manufacturing enterprises. Each manufacturing major group is divided into four size groups. The sample is drawn at the SIC three-digit level. All large enterprises (size group one), are completely enumerated. Simple random sampling is applied for size group two (medium sized) enterprises, and for size groups three and four (small) enterprises. The total value of sales of manufactured products of large enterprises (size group one) in a major group is added to the weighted totals of size groups two, three and four of that major group to reflect the total value of sales of the major group.
- 13 The calculation of the monthly production indices is based on the value of sales of products and articles manufactured and change in monthly value of stocks of manufactured products, after the effect of price changes has been eliminated through deflation using appropriate indices of the Production Price Index (PPI). For 38 of the 44 major groups in manufacturing, the value of production is calculated from the value of sales and stocks of manufactured products obtained from the monthly survey of manufacturing enterprises.
- 14 More direct indicators are used for the value of production of tobacco, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, motor vehicles and parts and accessories for motor vehicles. The volume indices for these major groups are calculated on the basis of physical quantities. This method is used by the national statistical agencies of many other countries for petroleum products as the results are considered more satisfactory (mainly because these commodities are relatively homogeneous).

**Weighting methodology**

- 15 For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form major group and division estimates. These procedures are consistent with international best practice.
- 16 For indices, a weight is calculated for every major group according to the value added of the major group relative to the total value added of the manufacturing industry as a whole, based on the results of the most recent census of manufacturing or large sample survey of the manufacturing industry. For the period 1998 to 2000, the weights are based on the 1996 Census of Manufacturing. For the period 2001 to 2004, the weights are based on the 2001 large sample survey of the manufacturing industry (LSS) and for the period 2005 to 2013, the weights are based on the 2005 LSS. Weights between census / LSS years are fixed. The production indices of all divisions are multiplied by the applicable weights and aggregated to produce the index for the total physical volume of manufacturing production (see Table D for the fixed weights which were used for the three periods 1998 to 2000, 2001 to 2004 and 2005 to 2013).

**Seasonal adjustment**

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



- Trend cycle** 18 The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Programme is used for smoothing seasonally adjusted estimates to estimates of the underlying trend cycle.
- Reliability of estimates** 19 Data presented in this publication are based on information obtained from a sample and are, therefore, subject to sampling variability; that is, they may differ from the figures that would have been produced if the data had been obtained from all enterprises in the manufacturing industry in South Africa. Estimates are subject to sampling and non-sampling errors.
- 20 Inaccuracies may occur because of imperfections in reporting by enterprises and errors made in the collection and processing of the data. Inaccuracies of this kind are referred to as non-sampling errors. Every effort is made to minimise non-sampling errors by careful design of questionnaires, testing them in pilot studies, editing reported data and implementing efficient operating procedures. Fluctuations may occur in consecutive months as a result of seasonal and economic factors.
- Revised figures** 21 Revised figures are due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures are indicated in the relevant tables. Data are edited at the enterprise level.
- Related publications** 22 Users may also wish to refer to the following publications available from Stats SA -
- *Bulletin of Statistics* issued quarterly.
  - *SA Statistics* issued annually.
- Rounding-off of figures** 23 Where necessary, the figures in the tables have been rounded off to the nearest digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.
- Symbols and abbreviations** 24
- |          |   |
|----------|---|
| BR       | Business Register   |
| GDP      | Gross domestic product  |
| ISIC     | International Standard Industrial Classification              |
| LSS      | Large sample survey   |
| m        | Million   |
| SIC      | Standard Industrial Classification of all Economic Activities |
| SARS     | South African Revenue Service                                 |
| Stats SA | Statistics South Africa                                       |
| VAT      | Value added tax   |
| *        | Revised figures   |

**Technical notes**

**25** Neyman optimal allocation

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

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

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

Class limits: Manufacturing (Rand)

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

## Glossary

<b>Enterprise</b>	The enterprise is a legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.
<b>Index of physical volume of manufacturing production</b>	The index of physical volume of manufacturing production, also known as a production index, is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 2005. The production in the base period is set at 100.
<b>Industry</b>	An industry is made up of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the <i>System of National Accounts (SNA)</i> in the same way as in the <i>1993 Standard Industrial Classification of all Economic Activities</i> , Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).
<b>Intermediate consumption</b>	Intermediate consumption includes - <ul style="list-style-type: none"><li>• purchases and transfers-in of materials;</li><li>• payments to other establishments for work done;</li><li>• other direct factory costs;</li><li>• rent and leasing paid;</li><li>• head office charges;</li><li>• royalties, copyright, trade names and patent rights paid;</li><li>• advertising;</li><li>• insurance premiums;</li><li>• services; and</li><li>• secretarial and administrative fees.</li></ul>
<b>Output</b>	Output is the aggregate value of goods manufactured and work done and includes - <ul style="list-style-type: none"><li>• sales and transfers-out of own manufactures, factory waste and stocks of factored goods;</li><li>• repairs;</li><li>• installation, erection and assembly;</li><li>• sundry trading revenue;</li><li>• sales of factored goods minus purchases of factored goods;</li><li>• rent and leasing received;</li><li>• royalties received;</li><li>• difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods;</li><li>• head office charges; and</li><li>• other revenue.</li></ul> Output excludes excise and customs duty paid.
<b>Value added</b>	Value added is the value of output less intermediate consumption. It represents the value added to the cost of the materials used in the process of production.
<b>Sales</b>	Sales are the total value of sales and transfers-out of all own manufactured products/articles and the amounts received for installation, erection or assembly or other services rendered.
<b>Turnover</b>	Turnover refers to - <ul style="list-style-type: none"><li>• the value of sales and transfers out of all own manufactured products/articles;</li><li>• amounts received for work done; and</li><li>• amounts received for services rendered.</li></ul>

Turnover excludes -

- value added tax (VAT);
- export freight charges; and
- excise duty.

**Weight**

The weight of a major group of manufacturing in the overall index for manufacturing is the ratio of the value added of the major group (i.e. output of a major group minus intermediate consumption) to the total value added of the manufacturing industry. The weight reflects the importance of the major group in the total. The weights change over time due to changes in the relative performance of industries, due to factors such as quality changes, changes in relative prices, and changes in customer preferences. New weights need to be calculated from time to time.

**Table D – Weights according to manufacturing divisions and major groups**

<b>Manufacturing divisions and major groups</b>	<b>Weights according to the 1996 Census of Manufacturing 1998 – 2000</b>	<b>Weights according to the 2001 LSS of the manufacturing industry 2001 – 2004</b>	<b>Weights according to the 2005 LSS of the manufacturing industry 2005 – 2013</b>
<b>Food and beverages</b>	<b>15,3</b>	<b>16,4</b>	<b>15,4</b>
-Meat, fish, fruit, etc.	2,8	2,6	1,8
-Dairy products	1,4	1,1	0,8
-Grain mill products	2,1	1,5	0,8
-Other food products	4,4	6,8	5,2
-Beverages	4,6	4,3	6,8
<b>Textiles, clothing, leather and footwear</b>	<b>7,8</b>	<b>5,4</b>	<b>4,9</b>
-Textiles	1,7	1,2	0,7
-Other textile products	1,2	1,2	0,9
-Knitted, crocheted articles	0,6	0,3	0,2
-Wearing apparel	3,0	2,0	2,1
-Tanning, dressing of leather	0,4	0,3	0,6
-Footwear	0,9	0,4	0,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,4</b>	<b>11,0</b>	<b>10,2</b>
-Sawmilling and planing of wood	0,8	0,7	0,7
-Products of wood	1,2	1,0	1,3
-Paper and paper products	5,3	4,8	3,8
-Publishing	1,5	2,4	1,9
-Printing, recorded media	2,6	2,1	2,5
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>19,3</b>	<b>22,5</b>	<b>22,1</b>
-Coke, petroleum products and nuclear fuel	4,2	9,1	8,5
-Basic chemicals	4,5	4,0	4,5
-Other chemical products	6,2	5,4	5,3
-Rubber products	1,4	1,1	1,0
-Plastic products	3,1	3,0	2,7
<b>Glass and non-metallic mineral products</b>	<b>4,5</b>	<b>3,9</b>	<b>4,8</b>
-Glass and glass products	1,0	1,1	1,0
-Non-metallic mineral products	3,5	2,9	3,8
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>23,6</b>	<b>22,4</b>	<b>22,9</b>
-Basic iron and steel products	7,6	5,5	7,7
-Non-ferrous metal products	3,2	4,7	3,4
-Structural metal products	2,4	1,3	2,0
-Other fabricated metal products	4,6	4,2	3,8
-General purpose machinery	2,5	2,4	2,4
-Special purpose machinery	2,9	3,2	3,1
-Household appliances	0,4	1,2	0,6
<b>Electrical machinery</b>	<b>3,4</b>	<b>2,7</b>	<b>2,5</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,5</b>	<b>1,3</b>	<b>1,1</b>
-Radio, television and communication apparatus	1,0	0,7	0,4
-Professional equipment	0,5	0,6	0,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>9,1</b>	<b>8,6</b>	<b>10,9</b>
-Motor vehicles	4,5	4,1	4,9
-Bodies for motor vehicles, trailers and semi-trailers	0,5	0,4	0,5
-Parts and accessories	3,0	3,1	4,7
-Other transport equipment	1,0	1,0	0,9
<b>Other manufacturing divisions</b>	<b>4,1</b>	<b>5,8</b>	<b>5,2</b>
-Furniture	1,6	1,6	1,3
-Other manufacturing groups	2,6	4,2	3,9
<b>Total</b>	<b>100,0</b>	<b>100,0</b>	<b>100,0</b>

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