

# Statistical release

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# Manufacturing: Production and sales (Preliminary)

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## Key figures for December 2010

**Table A – Manufacturing production and sales**

Estimates	December 2010	% change between December 2009 and December 2010	% change between October to December 2009 and October to December 2010	% change between January to December 2009 and January to December 2010
Physical volume of manufacturing production index (2005=100)	90,7	0,2	2,5	4,9
Total estimated sales of manufactured products (R million)	98 681	4,8	6,5	6,2

Seasonally adjusted estimates	December 2010	% change between November and December 2010	% change between July to September 2010 and October to December 2010
Physical volume of manufacturing production index (2005=100)	101,9	-0,2	1,1
Total value of sales of manufactured products (R million)	109 215	1,3	4,4

**Manufacturing production for 2010 reflected an increase of 4,9% compared with 2009 after an annual decrease of 12,9% recorded for 2009. Higher production for the year 2010 was reported by six of the ten manufacturing divisions.**

The annual increase of 4,9% was mainly due to higher production in the motor vehicles, parts and accessories and other transport equipment division (20,5% and contributing 1,8 percentage points), the petroleum, chemical products, rubber and plastic products division (6,1% and contributing 1,5 percentage points), the basic iron and steel, non-ferrous metal products, metal products and machinery division (4,2% and contributing 0,9 of a percentage point) and the food and beverages division (4,0% and contributing 0,7 of a percentage point) (see Table 10).

**Manufacturing production increased marginally by 0,2% in December 2010 compared with December 2009.**

Manufacturing production rose by 0,2% year-on-year in December 2010, lower than the 4,6% increase in November 2010 compared with November 2009. The increase of 0,2% was driven mainly by higher production in the food and beverages division (6,6% and contributing 1,4 percentage points), the wood and wood products, paper, publishing and printing division (9,6% and contributing 0,9 of a percentage point) and the motor vehicles, parts and accessories and other transport equipment division (8,0% and contributing 0,6 of a percentage point).

However, these increases were to a large extent counteracted by decreases reported by the petroleum, chemical products, rubber and plastic products division (-4,1% and contributing -1,0 percentage point), the basic iron and steel, non-ferrous metal products, metal products and machinery division (-3,5% and contributing -0,7 of a percentage point) and the other manufacturing division (-14,6% and contributing -0,7 of a percentage point) (see Table 4b).

**Seasonally adjusted manufacturing production for the fourth quarter of 2010 increased by 1,1% compared with the third quarter of 2010. Six of the ten manufacturing divisions reported positive growth rates over this period (see Table B).**

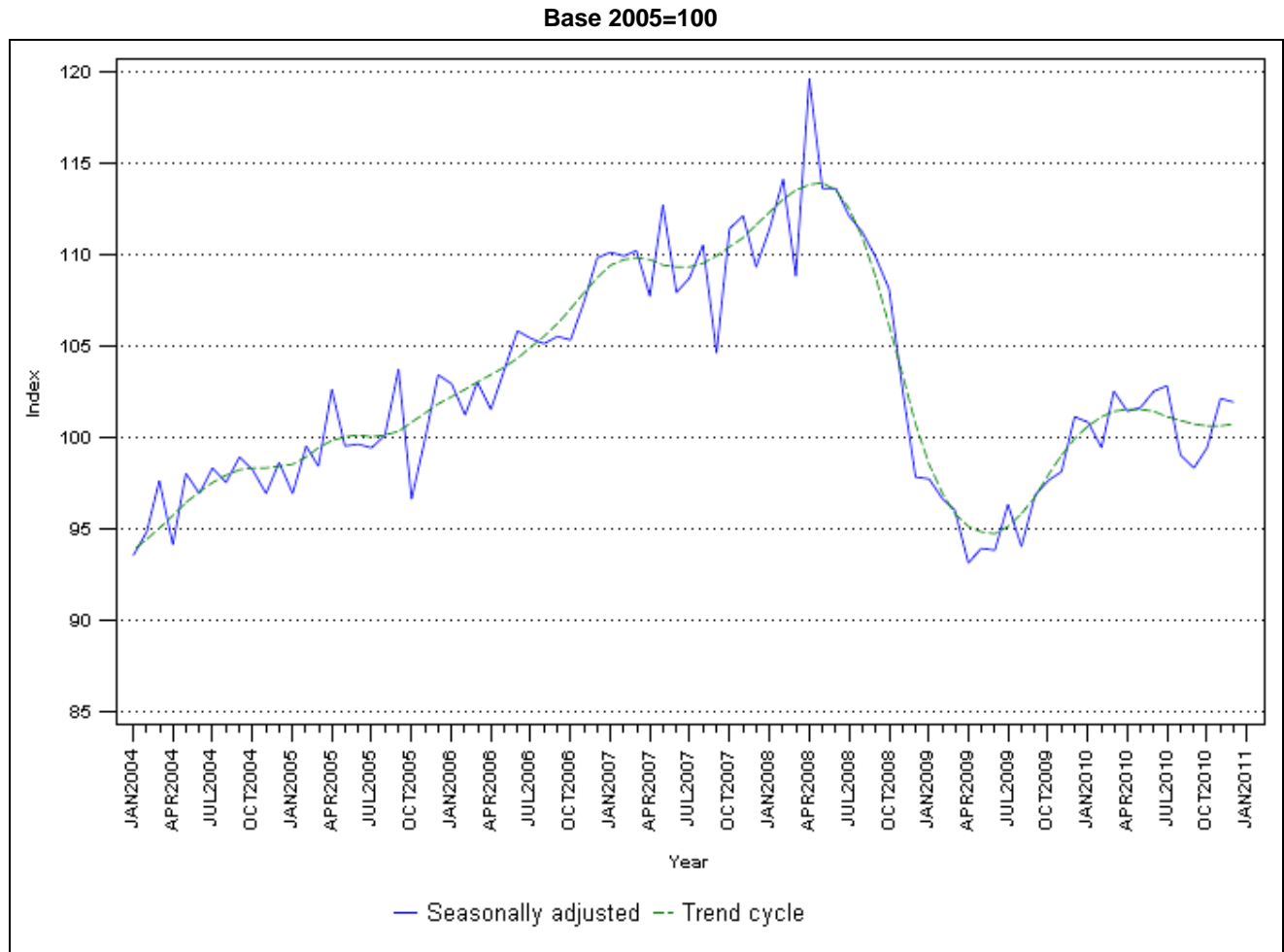
**Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production**

**Base 2005=100**

Manufacturing divisions and major groups	Percentage contribution to total manufacturing production using the weights according to large sample survey of the manufacturing industry, 2005	Average seasonally adjusted production index for July to September 2010	Average seasonally adjusted production index for October to December 2010	Percentage change of October to December 2010 compared with the preceding three months	Contribution (percentage points) to the seasonally adjusted quarterly change in total manufacturing production 1/
<b>Food and beverages</b>	<b>15,4</b>	<b>117,5</b>	<b>118,9</b>	<b>1,2</b>	<b>0,2</b>
-Meat, fish, fruit, etc.	1,8	118,5	121,1	2,2	0,0
-Dairy products	0,8	115,0	113,5	-1,3	0,0
-Grain mill products	0,8	114,0	109,5	-3,9	0,0
-Other food products	5,2	119,6	117,0	-2,2	-0,1
-Beverages	6,8	116,4	121,5	4,4	0,3
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>82,5</b>	<b>81,7</b>	<b>-1,0</b>	<b>0,0</b>
-Textiles	1,6	69,1	68,0	-1,6	0,0
-Wearing apparel	2,3	86,2	84,6	-1,9	0,0
-Leather and leather products	0,6	88,4	87,9	-0,6	0,0
-Footwear	0,4	103,8	109,0	5,0	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>99,6</b>	<b>96,1</b>	<b>-3,5</b>	<b>-0,4</b>
-Wood and products of wood	2,0	87,4	89,3	2,2	0,0
-Paper and paper products	3,8	116,1	111,6	-3,9	-0,2
-Publishing and printing	4,3	90,6	85,5	-5,6	-0,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>114,1</b>	<b>108,4</b>	<b>-5,0</b>	<b>-1,3</b>
-Coke, petroleum products and nuclear fuel	8,5	101,9	85,4	-16,2	-1,4
-Basic chemicals	4,5	124,6	123,6	-0,8	0,0
-Other chemical products	5,3	117,9	117,5	-0,3	0,0
-Rubber products	1,0	75,1	88,2	17,4	0,1
-Plastic products	2,7	140,8	144,9	2,9	0,1
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>95,5</b>	<b>94,0</b>	<b>-1,6</b>	<b>-0,1</b>
-Glass and glass products	1,0	122,5	121,9	-0,5	0,0
-Non-metallic mineral products	3,8	88,7	86,9	-2,0	-0,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>86,7</b>	<b>87,5</b>	<b>0,9</b>	<b>0,2</b>
-Basic iron and steel products	7,7	72,5	74,8	3,2	0,2
-Basic precious, non-ferrous metal products	3,4	101,3	102,6	1,3	0,0
-Fabricated metal products	5,7	102,4	104,6	2,1	0,1
-Machinery and equipment	6,1	81,3	78,7	-3,2	-0,2
<b>Electrical machinery</b>	<b>2,5</b>	<b>127,5</b>	<b>128,3</b>	<b>0,6</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>94,5</b>	<b>97,1</b>	<b>2,8</b>	<b>0,0</b>
-Radio, television and communication apparatus	0,4	86,2	97,9	13,6	0,0
-Professional equipment	0,7	99,7	96,6	-3,1	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>85,3</b>	<b>106,6</b>	<b>25,0</b>	<b>2,3</b>
-Motor vehicles	4,9	72,4	99,2	37,0	1,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	114,9	125,4	9,1	0,1
-Parts and accessories	4,7	87,1	109,8	26,1	1,1
-Other transport equipment	0,9	129,0	119,5	-7,4	-0,1
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>87,6</b>	<b>87,9</b>	<b>0,3</b>	<b>0,0</b>
-Furniture	1,3	92,7	90,6	-2,3	0,0
-Other manufacturing groups	3,9	85,9	87,0	1,3	0,0
<b>Total</b>	<b>100,0</b>	<b>100,0</b>	<b>101,1</b>	<b>1,1</b>	<b>1,1</b>

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

Figure 1 – Index of the physical volume of manufacturing production: 2004 – 2010



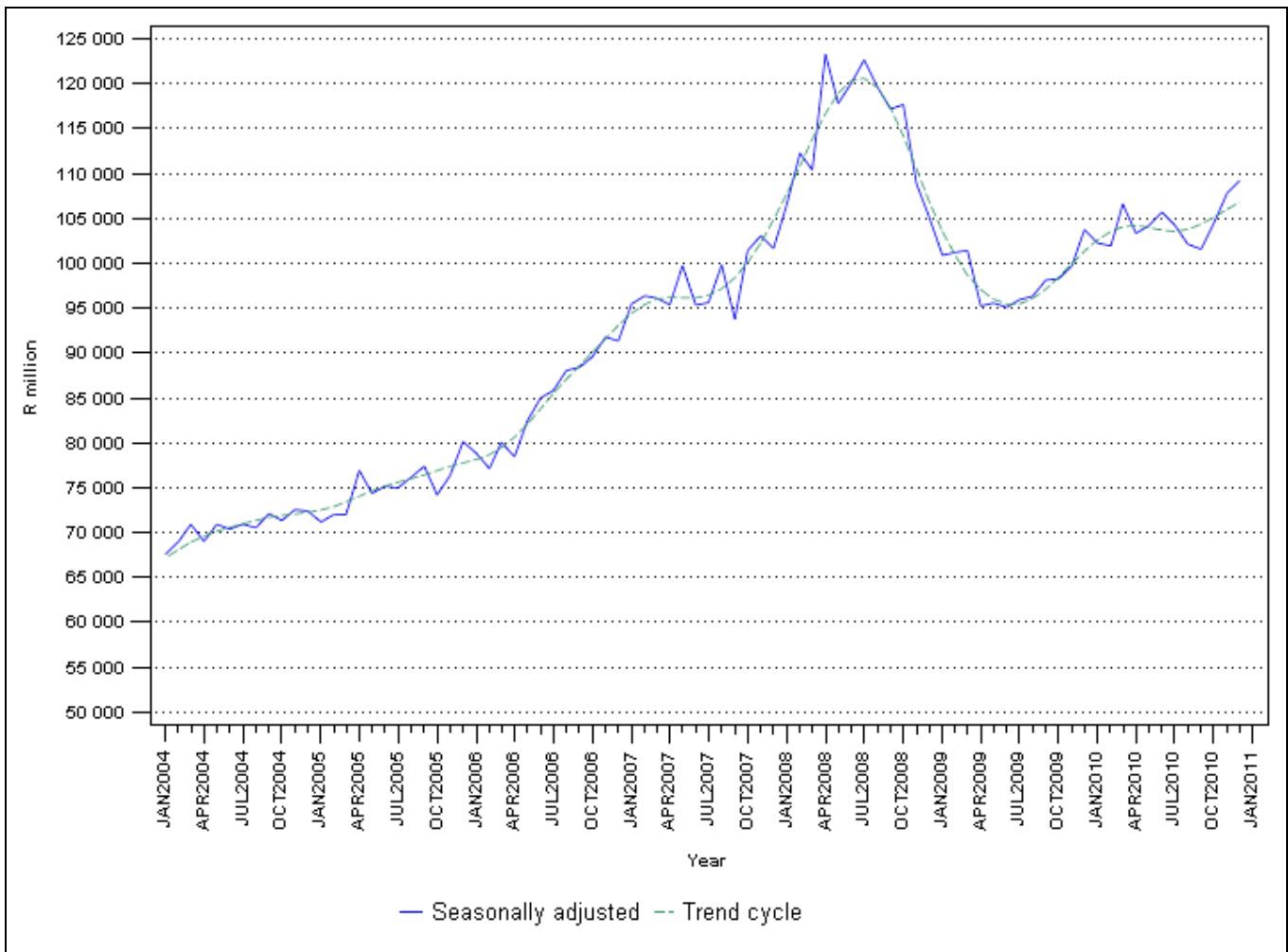
**Seasonally adjusted sales of manufactured products at current prices increased by 4,4% (R13 513 million) in the fourth quarter of 2010 compared with the third quarter of 2010. Eight of the ten manufacturing divisions reported positive growth rates over this period (see Table C).**

The large increases reported by the motor vehicles, parts and accessories and other transport equipment division (16,0% or R6 060 million) and the basic iron and steel, non-ferrous metal products, metal products and machinery division (7,9% or R5 046 million) during the above-mentioned period were mainly responsible for the increase in total manufacturing sales (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 July to September 2010	Seasonally adjusted sales October to December 2010	Percentage change between July to September 2010 and October to December 2010	Difference in seasonally adjusted sales of manufacturing divisions between July to September 2010 and October to December 2010
	R'000	R'000	%	R'000
<b>Food and beverages</b>	<b>62 554 417</b>	<b>63 577 798</b>	<b>1,6</b>	<b>1 023 381</b>
-Food and food products	47 395 358	47 457 301	0,1	61 943
-Beverages	15 159 058	16 120 495	6,3	961 437
<b>Textiles, clothing, leather and footwear</b>	<b>9 173 813</b>	<b>9 071 259</b>	<b>-1,1</b>	<b>-102 554</b>
-Textiles	3 653 660	3 614 607	-1,1	-39 053
-Wearing apparel	3 619 354	3 536 053	-2,3	-83 301
-Leather and leather products	971 404	998 394	2,8	26 990
-Footwear	929 394	922 206	-0,8	-7 188
<b>Wood and wood products, paper, publishing and printing</b>	<b>27 841 224</b>	<b>27 137 318</b>	<b>-2,5</b>	<b>-703 906</b>
-Wood and products of wood	5 712 046	5 870 768	2,8	158 722
-Paper and paper products	12 976 774	12 644 798	-2,6	-331 976
-Publishing and printing	9 152 407	8 621 752	-5,8	-530 655
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>70 036 656</b>	<b>71 042 362</b>	<b>1,4</b>	<b>1 005 706</b>
-Coke, petroleum products and nuclear fuel	24 016 287	23 284 644	-3,0	-731 643
-Basic chemicals	15 123 830	16 397 736	8,4	1 273 906
-Other chemical products	17 523 309	17 597 204	0,4	73 895
-Rubber products	2 878 216	3 151 969	9,5	273 753
-Plastic products	10 495 013	10 610 807	1,1	115 794
<b>Glass and non-metallic mineral products</b>	<b>10 481 267</b>	<b>10 493 034</b>	<b>0,1</b>	<b>11 767</b>
-Glass and glass products	1 769 312	1 874 031	5,9	104 719
-Non-metallic mineral products	8 711 955	8 619 004	-1,1	-92 951
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>63 551 161</b>	<b>68 597 266</b>	<b>7,9</b>	<b>5 046 105</b>
-Basic iron and steel products	20 058 971	24 449 646	21,9	4 390 675
-Basic precious, non-ferrous metal products	12 065 240	12 848 983	6,5	783 743
-Fabricated metal products	15 448 854	15 731 803	1,8	282 949
-Machinery and equipment	15 978 096	15 566 834	-2,6	-411 262
<b>Electrical machinery</b>	<b>9 338 597</b>	<b>9 403 781</b>	<b>0,7</b>	<b>65 184</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>3 268 515</b>	<b>3 423 608</b>	<b>4,7</b>	<b>155 093</b>
-Radio, television and communication apparatus	1 261 676	1 506 749	19,4	245 073
-Professional equipment	2 006 839	1 916 857	-4,5	-89 982
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>37 947 415</b>	<b>44 006 957</b>	<b>16,0</b>	<b>6 059 542</b>
-Motor vehicles, trailers, parts and accessories	33 551 096	39 917 705	19,0	6 366 609
-Other transport equipment	4 396 319	4 089 252	-7,0	-307 067
<b>Furniture and other manufacturing division</b>	<b>13 732 944</b>	<b>14 685 156</b>	<b>6,9</b>	<b>952 212</b>
-Furniture	3 028 042	3 011 555	-0,5	-16 487
-Other manufacturing groups	10 704 901	11 673 601	9,0	968 700
<b>Total</b>	<b>307 926 006</b>	<b>321 438 539</b>	<b>4,4</b>	<b>13 512 533</b>

**Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2004 – 2010**



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## Detailed results

**Table 1 – Total index of the physical volume of manufacturing production: 2004 – 2010**

**Base 2005 = 100**

Month	2004	2005	2006	2007	2008	2009	2010
Jan	82,6	85,2	89,8	95,3	96,0	83,6	86,3
Feb	91,5	95,5	96,8	104,9	108,5	91,7	94,1
Mar	100,8	101,7	106,3	113,5	111,9	98,5	105,1
Apr	88,9	96,2	95,4	100,8	111,7	87,0	94,6
May	98,7	100,3	104,3	113,2	114,1	94,0	101,7
Jun	97,6	100,1	106,6	109,0	114,9	94,9	103,7
Jul	100,0	100,9	107,4	111,1	115,1	98,9	105,9
Aug	100,3	103,3	108,8	114,3	114,8	96,7	101,7
Sep	102,3	107,5	109,7	108,8	114,2	100,8	102,1
Oct	108,2	106,9	117,0	124,1	121,1	109,2	1/ 111,7
Nov	107,5	110,7	119,0	124,2	114,3	108,5	1/ 113,5
Dec	87,0	91,4	96,9	96,5	87,9	90,5	1/ 90,7
Year	97,1	100,0	104,8	109,6	110,4	96,2	100,9

1/ Preliminary.

**Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2004 – 2010 2/**

Month	2004	2005	2006	2007	2008	2009	2010
Jan	-1,9	3,1	5,4	6,1	0,7	-12,9	3,2
Feb	-1,2	4,4	1,4	8,4	3,4	-15,5	2,6
Mar	5,0	0,9	4,5	6,8	-1,4	-12,0	6,7
Apr	0,1	8,2	-0,8	5,7	10,8	-22,1	8,7
May	5,2	1,6	4,0	8,5	0,8	-17,6	8,2
Jun	4,5	2,6	6,5	2,3	5,4	-17,4	9,3
Jul	3,6	0,9	6,4	3,4	3,6	-14,1	7,1
Aug	6,8	3,0	5,3	5,1	0,4	-15,8	5,2
Sep	6,5	5,1	2,0	-0,8	5,0	-11,7	1,3
Oct	4,7	-1,2	9,4	6,1	-2,4	-9,8	2,3
Nov	5,8	3,0	7,5	4,4	-8,0	-5,1	4,6
Dec	7,8	5,1	6,0	-0,4	-8,9	3,0	0,2
Year	4,0	3,0	4,8	4,6	0,7	-12,9	4,9

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: 2004 – 2010**

**Base 2005 = 100**

Month	2004	2005	2006	2007	2008	2009	2010
Jan	93,5	96,9	102,9	110,1	111,4	97,7	100,8
Feb	94,8	99,5	101,2	109,9	114,1	96,6	99,4
Mar	97,6	98,4	103,0	110,2	108,8	96,0	102,5
Apr	94,1	102,6	101,5	107,7	119,6	93,1	101,4
May	98,0	99,5	103,6	112,7	113,6	93,9	101,6
Jun	96,9	99,6	105,8	107,9	113,6	93,8	102,5
Jul	98,3	99,4	105,4	108,7	112,1	96,3	102,8
Aug	97,5	100,1	105,1	110,5	111,2	94,0	99,0
Sep	98,9	103,7	105,5	104,6	109,8	96,8	98,3
Oct	98,2	96,6	105,3	111,4	108,1	97,6	99,4
Nov	96,9	99,9	107,4	112,1	102,6	98,1	102,1
Dec	98,6	103,4	109,8	109,3	97,8	101,1	101,9



**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 2010	Actual indices			Seasonally adjusted indices		
			December 2009	1/ November 2010	1/ December 2010	December 2009	November 2010	December 2010
<b>Food and beverages</b>	<b>15,4</b>	<b>116,3</b>	<b>125,2</b>	<b>127,2</b>	<b>133,5</b>	<b>114,4</b>	<b>115,7</b>	<b>122,0</b>
-Meat, fish, fruit, etc.	1,8	115,5	122,7	127,4	128,5	118,6	122,3	123,8
-Dairy products	0,8	111,6	123,5	123,9	130,3	109,7	116,4	115,7
-Grain mill products	0,8	110,4	112,7	114,9	107,5	111,1	110,0	105,9
-Other food products	5,2	115,8	94,2	114,8	102,3	110,6	104,8	120,7
-Beverages	6,8	118,2	151,1	138,4	162,0	117,1	122,8	125,1
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>83,9</b>	<b>68,5</b>	<b>98,7</b>	<b>62,9</b>	<b>87,8</b>	<b>82,9</b>	<b>80,8</b>
-Textiles	0,7	66,7	47,5	74,1	44,0	71,5	67,0	66,0
-Other textile products	0,9	72,9	58,1	85,6	53,0	75,1	71,1	68,5
-Knitted, crocheted articles	0,2	103,6	77,6	103,2	74,1	109,5	96,9	103,7
-Wearing apparel	2,1	86,5	74,7	104,7	68,2	89,6	84,2	81,9
-Leather and leather products	0,6	89,3	78,6	102,1	67,4	100,0	91,7	86,0
-Footwear	0,4	106,9	74,7	129,3	77,2	105,6	108,4	109,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>96,3</b>	<b>79,5</b>	<b>109,8</b>	<b>87,1</b>	<b>88,2</b>	<b>96,2</b>	<b>96,7</b>
-Sawmilling and planing of wood	0,7	84,0	52,0	91,5	66,4	72,3	83,8	92,6
-Products of wood	1,3	87,7	74,2	105,2	74,9	93,7	90,6	94,3
-Paper and paper products	3,8	112,8	92,3	119,0	107,4	96,0	110,3	111,7
-Publishing	1,9	81,1	74,1	94,6	74,2	78,8	80,3	79,4
-Printing, recorded media	2,5	90,3	74,3	114,7	77,7	85,0	92,9	88,8
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>111,4</b>	<b>102,9</b>	<b>120,6</b>	<b>98,7</b>	<b>112,1</b>	<b>109,2</b>	<b>108,8</b>
-Coke, petroleum products and nuclear fuel	8,5	92,8	103,3	84,7	82,3	101,5	84,8	81,2
-Basic chemicals	4,5	126,2	100,4	147,1	112,7	114,3	126,2	129,3
-Other chemical products	5,3	117,3	103,9	134,1	108,8	115,5	118,6	120,8
-Rubber products	1,0	82,5	55,5	99,6	58,5	82,6	89,6	87,1
-Plastic products	2,7	143,5	120,8	170,3	121,3	145,6	145,8	145,9
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>94,0</b>	<b>83,1</b>	<b>106,4</b>	<b>80,1</b>	<b>99,1</b>	<b>93,3</b>	<b>95,3</b>
-Glass and glass products	1,0	121,0	116,5	149,5	116,9	123,2	119,0	123,8
-Non-metallic mineral products	3,8	87,2	74,7	95,6	70,9	93,1	86,8	88,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>89,5</b>	<b>79,4</b>	<b>95,2</b>	<b>76,6</b>	<b>90,9</b>	<b>88,6</b>	<b>88,4</b>
-Basic iron and steel products	7,7	80,6	82,2	73,6	67,1	91,4	75,6	75,1
-Non-ferrous metal products	3,4	100,3	91,6	105,8	99,6	94,1	102,6	102,6
-Structural metal products	2,0	92,9	69,8	113,5	72,9	92,9	97,7	97,0
-Other fabricated metal products	3,8	106,5	75,2	130,2	84,2	100,4	111,6	112,7
-General purpose machinery	2,4	70,1	64,5	80,2	63,3	71,3	70,3	70,0
-Special purpose machinery	3,1	89,9	83,9	90,1	79,1	87,7	83,6	82,6
-Household appliances	0,6	98,3	67,7	115,1	71,2	93,5	99,1	99,0
<b>Electrical machinery</b>	<b>2,5</b>	<b>127,4</b>	<b>95,8</b>	<b>144,4</b>	<b>106,2</b>	<b>118,5</b>	<b>130,8</b>	<b>131,3</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>94,2</b>	<b>85,3</b>	<b>112,5</b>	<b>89,1</b>	<b>95,3</b>	<b>99,7</b>	<b>98,9</b>
-Radio, television and communication apparatus	0,4	92,0	86,8	119,5	99,4	90,4	103,8	103,0
-Professional equipment	0,7	95,7	84,4	108,1	82,5	98,5	97,0	96,3
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>96,0</b>	<b>63,9</b>	<b>126,9</b>	<b>69,0</b>	<b>97,3</b>	<b>113,6</b>	<b>106,2</b>
-Motor vehicles	4,9	85,5	50,6	128,4	57,6	83,4	109,0	95,1
-Bodies for motor vehicles, trailers and semi-trailers	0,5	119,1	71,2	138,1	94,1	111,2	114,2	147,4
-Parts and accessories	4,7	100,2	65,6	124,3	71,3	103,1	118,1	111,8
-Other transport equipment	0,9	117,9	120,3	126,1	104,8	133,1	115,0	115,7
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>91,8</b>	<b>87,1</b>	<b>107,4</b>	<b>74,4</b>	<b>100,1</b>	<b>90,9</b>	<b>85,5</b>
-Furniture	1,3	92,0	75,1	118,6	79,7	88,5	89,2	93,5
-Other manufacturing groups	3,9	91,7	91,1	103,6	72,6	104,0	91,4	82,9
<b>Total</b>	<b>100,0</b>	<b>100,9</b>	<b>90,5</b>	<b>113,5</b>	<b>90,7</b>	<b>101,1</b>	<b>102,1</b>	<b>101,9</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 2010	Actual indices			Seasonally adjusted indices		
			December 2009	1/ December 2010	Percentage change between December 2009 and December 2010	November 2010	December 2010	Percentage change between November 2010 and December 2010
<b>Food and beverages</b>	<b>15,4</b>	<b>116,3</b>	<b>125,2</b>	<b>133,5</b>	<b>6,6</b>	<b>115,7</b>	<b>122,0</b>	<b>5,4</b>
-Meat, fish, fruit, etc.	1,8	115,5	122,7	128,5	4,7	122,3	123,8	1,2
-Dairy products	0,8	111,6	123,5	130,3	5,5	116,4	115,7	-0,6
-Grain mill products	0,8	110,4	112,7	107,5	-4,6	110,0	105,9	-3,7
-Other food products	5,2	115,8	94,2	102,3	8,6	104,8	120,7	15,2
-Beverages	6,8	118,2	151,1	162,0	7,2	122,8	125,1	1,9
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>83,9</b>	<b>68,5</b>	<b>62,9</b>	<b>-8,2</b>	<b>82,9</b>	<b>80,8</b>	<b>-2,5</b>
-Textiles	0,7	66,7	47,5	44,0	-7,4	67,0	66,0	-1,5
-Other textile products	0,9	72,9	58,1	53,0	-8,8	71,1	68,5	-3,7
-Knitted, crocheted articles	0,2	103,6	77,6	74,1	-4,5	96,9	103,7	7,0
-Wearing apparel	2,1	86,5	74,7	68,2	-8,7	84,2	81,9	-2,7
-Leather and leather products	0,6	89,3	78,6	67,4	-14,2	91,7	86,0	-6,2
-Footwear	0,4	106,9	74,7	77,2	3,3	108,4	109,4	0,9
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>96,3</b>	<b>79,5</b>	<b>87,1</b>	<b>9,6</b>	<b>96,2</b>	<b>96,7</b>	<b>0,5</b>
-Sawmilling and planing of wood	0,7	84,0	52,0	66,4	27,7	83,8	92,6	10,5
-Products of wood	1,3	87,7	74,2	74,9	0,9	90,6	94,3	4,1
-Paper and paper products	3,8	112,8	92,3	107,4	16,4	110,3	111,7	1,3
-Publishing	1,9	81,1	74,1	74,2	0,1	80,3	79,4	-1,1
-Printing, recorded media	2,5	90,3	74,3	77,7	4,6	92,9	88,8	-4,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>111,4</b>	<b>102,9</b>	<b>98,7</b>	<b>-4,1</b>	<b>109,2</b>	<b>108,8</b>	<b>-0,4</b>
-Coke, petroleum products and nuclear fuel	8,5	92,8	103,3	82,3	-20,3	84,8	81,2	-4,2
-Basic chemicals	4,5	126,2	100,4	112,7	12,3	126,2	129,3	2,5
-Other chemical products	5,3	117,3	103,9	108,8	4,7	118,6	120,8	1,9
-Rubber products	1,0	82,5	55,5	58,5	5,4	89,6	87,1	-2,8
-Plastic products	2,7	143,5	120,8	121,3	0,4	145,8	145,9	0,1
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>94,0</b>	<b>83,1</b>	<b>80,1</b>	<b>-3,6</b>	<b>93,3</b>	<b>95,3</b>	<b>2,1</b>
-Glass and glass products	1,0	121,0	116,5	116,9	0,3	119,0	123,8	4,0
-Non-metallic mineral products	3,8	87,2	74,7	70,9	-5,1	86,8	88,1	1,5
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>89,5</b>	<b>79,4</b>	<b>76,6</b>	<b>-3,5</b>	<b>88,6</b>	<b>88,4</b>	<b>-0,2</b>
-Basic iron and steel products	7,7	80,6	82,2	67,1	-18,4	75,6	75,1	-0,7
-Non-ferrous metal products	3,4	100,3	91,6	99,6	8,7	102,6	102,6	0,0
-Structural metal products	2,0	92,9	69,8	72,9	4,4	97,7	97,0	-0,7
-Other fabricated metal products	3,8	106,5	75,2	84,2	12,0	111,6	112,7	1,0
-General purpose machinery	2,4	70,1	64,5	63,3	-1,9	70,3	70,0	-0,4
-Special purpose machinery	3,1	89,9	83,9	79,1	-5,7	83,6	82,6	-1,2
-Household appliances	0,6	98,3	67,7	71,2	5,2	99,1	99,0	-0,1
<b>Electrical machinery</b>	<b>2,5</b>	<b>127,4</b>	<b>95,8</b>	<b>106,2</b>	<b>10,9</b>	<b>130,8</b>	<b>131,3</b>	<b>0,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>94,2</b>	<b>85,3</b>	<b>89,1</b>	<b>4,5</b>	<b>99,7</b>	<b>98,9</b>	<b>-0,8</b>
-Radio, television and communication apparatus	0,4	92,0	86,8	99,4	14,5	103,8	103,0	-0,8
-Professional equipment	0,7	95,7	84,4	82,5	-2,3	97,0	96,3	-0,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>96,0</b>	<b>63,9</b>	<b>69,0</b>	<b>8,0</b>	<b>113,6</b>	<b>106,2</b>	<b>-6,5</b>
-Motor vehicles	4,9	85,5	50,6	57,6	13,8	109,0	95,1	-12,8
-Bodies for motor vehicles, trailers and semi-trailers	0,5	119,1	71,2	94,1	32,2	114,2	147,4	29,1
-Parts and accessories	4,7	100,2	65,6	71,3	8,7	118,1	111,8	-5,3
-Other transport equipment	0,9	117,9	120,3	104,8	-12,9	115,0	115,7	0,6
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>91,8</b>	<b>87,1</b>	<b>74,4</b>	<b>-14,6</b>	<b>90,9</b>	<b>85,5</b>	<b>-5,9</b>
-Furniture	1,3	92,0	75,1	79,7	6,1	89,2	93,5	4,8
-Other manufacturing groups	3,9	91,7	91,1	72,6	-20,3	91,4	82,9	-9,3
<b>Total</b>	<b>100,0</b>	<b>100,9</b>	<b>90,5</b>	<b>90,7</b>	<b>0,2</b>	<b>102,1</b>	<b>101,9</b>	<b>-0,2</b>

1/ Preliminary.

**Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2004 – 2010**

Month	2004	2005	2006	2007	2008	2009	2010
Jan	57 132 553	60 063 082	66 484 938	80 538 318	90 120 929	84 819 210	86 164 210
Feb	66 502 495	69 193 109	73 901 384	91 988 434	106 616 455	96 192 926	96 905 945
Mar	72 867 592	73 858 342	82 047 327	98 673 703	112 950 687	103 814 911	109 176 123
Apr	65 221 353	72 381 184	73 494 509	89 107 318	115 062 249	88 797 741	96 353 590
May	71 259 129	74 601 624	82 575 109	100 003 365	118 293 383	95 133 046	103 770 879
Jun	71 125 898	76 071 471	86 293 995	97 130 007	122 894 285	96 891 148	107 804 180
Jul	71 718 015	76 103 755	87 489 215	97 758 776	126 353 845	98 368 052	107 176 982
Aug	72 358 270	78 533 270	91 130 164	103 286 147	124 293 826	99 412 537	104 965 646
Sep	75 769 608	81 576 570	93 387 334	98 938 121	123 806 867	103 482 347	107 149 992
Oct	78 185 765	81 457 255	98 505 874	111 757 950	129 941 379	108 453 282	1/ 115 388 206
Nov	80 545 958	85 122 282	101 894 005	114 304 668	120 894 966	110 596 379	1/ 119 520 362
Dec	65 956 688	72 412 763	81 621 089	90 693 690	94 770 345	94 154 368	1/ 98 680 532
<b>Year</b>	<b>848 643 324</b>	<b>901 374 707</b>	<b>1 018 824 943</b>	<b>1 174 180 497</b>	<b>1 385 999 216</b>	<b>1 180 115 947</b>	<b>1 253 056 647</b>

1/ Preliminary.

**Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2004 – 2010 2/**

Month	2004	2005	2006	2007	2008	2009	2010
Jan	1,1	5,1	10,7	21,1	11,9	-5,9	1,6
Feb	3,2	4,0	6,8	24,5	15,9	-9,8	0,7
Mar	8,8	1,4	11,1	20,3	14,5	-8,1	5,2
Apr	4,2	11,0	1,5	21,2	29,1	-22,8	8,5
May	11,0	4,7	10,7	21,1	18,3	-19,6	9,1
Jun	9,2	7,0	13,4	12,6	26,5	-21,2	11,3
Jul	9,1	6,1	15,0	11,7	29,3	-22,1	9,0
Aug	10,2	8,5	16,0	13,3	20,3	-20,0	5,6
Sep	12,4	7,7	14,5	5,9	25,1	-16,4	3,5
Oct	8,4	4,2	20,9	13,5	16,3	-16,5	6,4
Nov	13,8	5,7	19,7	12,2	5,8	-8,5	8,1
Dec	10,3	9,8	12,7	11,1	4,5	-0,6	4,8
<b>Year</b>	<b>8,6</b>	<b>6,2</b>	<b>13,0</b>	<b>15,2</b>	<b>18,0</b>	<b>-14,9</b>	<b>6,2</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): 2004 – 2010**

Month	2004	2005	2006	2007	2008	2009	2010
Jan	67 565 954	71 175 378	78 841 737	95 456 274	106 528 219	100 876 319	102 232 675
Feb	68 982 812	72 023 063	77 122 793	96 363 616	112 262 709	101 214 608	101 929 867
Mar	70 917 170	72 001 134	80 057 205	96 104 198	110 381 389	101 425 349	106 592 049
Apr	69 022 859	76 921 176	78 444 335	95 384 750	123 267 471	95 226 354	103 332 495
May	70 917 414	74 361 860	82 424 144	99 721 893	117 795 942	95 567 427	104 163 569
Jun	70 378 129	75 155 581	84 984 203	95 333 346	120 080 556	95 088 633	105 691 436
Jul	70 929 057	74 961 260	85 806 676	95 608 664	122 636 597	95 933 968	104 252 014
Aug	70 533 599	76 162 877	88 056 616	99 813 767	119 634 146	96 315 137	102 112 077
Sep	72 110 182	77 370 797	88 412 067	93 723 242	117 171 885	98 115 866	101 561 915
Oct	71 333 612	74 191 220	89 568 497	101 413 028	117 660 334	98 255 154	104 445 596
Nov	72 550 969	76 394 158	91 784 244	103 047 962	108 828 820	99 675 863	107 778 145
Dec	72 396 232	80 119 775	91 338 772	101 653 726	105 118 215	103 744 859	109 214 798

**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 2010	Actual values			Seasonally adjusted values		
		December 2009	1/ November 2010	1/ December 2010	December 2009	November 2010	December 2010
<b>Food and beverages</b>	<b>247 870 269</b>	<b>23 471 636</b>	<b>23 474 828</b>	<b>24 833 807</b>	<b>20 598 782</b>	<b>21 357 107</b>	<b>21 769 323</b>
-Meat, fish, fruit, etc.	68 029 869	6 134 528	6 428 102	6 585 078	5 599 344	5 972 351	5 998 760
-Dairy products	21 762 067	1 998 062	2 011 933	2 064 326	1 770 958	1 882 807	1 827 061
-Grain mill products	41 624 805	3 711 699	3 768 632	3 484 460	3 566 227	3 518 432	3 348 172
-Other food products	54 910 735	4 401 351	5 211 802	4 967 979	4 511 351	4 525 326	5 095 513
-Beverages	61 542 793	7 225 996	6 054 359	7 731 964	5 150 902	5 458 191	5 499 816
<b>Textiles, clothing, leather and footwear</b>	<b>37 402 016</b>	<b>2 627 564</b>	<b>3 744 598</b>	<b>2 464 886</b>	<b>3 187 317</b>	<b>3 105 510</b>	<b>2 984 059</b>
-Textiles	5 523 089	335 948	528 089	315 993	480 651	468 540	451 970
-Other textile products	9 413 038	654 191	914 617	603 656	811 283	762 587	745 673
-Knitted, crocheted articles	1 791 550	121 702	152 795	107 080	158 381	140 929	138 485
-Wearing apparel	12 934 523	982 969	1 319 842	925 634	1 099 407	1 047 955	1 034 745
-Leather and leather products	4 009 159	261 090	384 437	245 046	334 786	360 885	314 948
-Footwear	3 730 657	271 664	444 818	267 477	302 809	324 614	298 239
<b>Wood and wood products, paper, publishing and printing</b>	<b>108 059 506</b>	<b>7 570 083</b>	<b>10 340 755</b>	<b>8 276 007</b>	<b>8 396 250</b>	<b>9 106 563</b>	<b>9 175 844</b>
-Sawmilling and planing of wood	7 169 780	433 014	636 156	504 833	557 074	576 564	648 866
-Products of wood	15 671 530	1 084 371	1 566 607	1 121 156	1 333 267	1 350 450	1 370 998
-Paper and paper products	50 374 908	3 558 520	4 576 221	4 056 450	3 780 125	4 233 702	4 314 173
-Publishing	14 397 231	1 101 103	1 384 013	1 126 853	1 146 008	1 189 864	1 177 362
-Printing, recorded media	20 446 057	1 393 075	2 177 758	1 466 715	1 579 776	1 755 983	1 664 445
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>281 160 156</b>	<b>21 092 043</b>	<b>25 904 479</b>	<b>21 538 989</b>	<b>23 313 869</b>	<b>23 352 618</b>	<b>23 968 864</b>
-Coke, petroleum products and nuclear fuel	96 575 121	7 692 614	7 588 712	6 862 157	8 096 961	7 576 312	7 256 024
-Basic chemicals	60 854 494	4 088 822	6 011 770	5 121 551	4 796 087	5 220 316	6 015 835
-Other chemical products	69 532 671	5 583 981	6 821 471	5 627 238	5 999 997	5 896 559	6 039 138
-Rubber products	12 022 322	773 347	1 209 942	844 851	991 327	1 074 739	1 084 288
-Plastic products	42 175 548	2 953 279	4 272 584	3 083 192	3 429 497	3 584 692	3 573 578
<b>Glass and non-metallic mineral products</b>	<b>41 043 087</b>	<b>2 829 403</b>	<b>4 112 264</b>	<b>2 881 555</b>	<b>3 580 381</b>	<b>3 577 311</b>	<b>3 633 262</b>
-Glass and glass products	7 022 938	566 455	845 084	611 561	592 201	633 293	638 608
-Non-metallic mineral products	34 020 149	2 262 948	3 267 180	2 269 994	2 988 180	2 944 018	2 994 655
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>267 847 660</b>	<b>17 586 758</b>	<b>24 999 862</b>	<b>19 105 434</b>	<b>21 307 171</b>	<b>23 248 329</b>	<b>23 369 131</b>
-Basic iron and steel products	92 179 845	5 230 994	8 268 344	6 320 906	6 979 128	8 411 431	8 528 883
-Non-ferrous metal products	48 199 079	3 274 311	4 714 681	3 903 711	3 608 751	4 224 770	4 321 884
-Structural metal products	21 968 432	1 546 433	2 198 200	1 477 337	2 016 038	1 917 520	1 920 971
-Other fabricated metal products	40 438 355	2 561 362	4 009 058	2 657 083	3 298 413	3 447 057	3 428 676
-General purpose machinery	27 341 136	2 144 228	2 579 224	2 045 285	2 341 469	2 280 724	2 233 254
-Special purpose machinery	28 031 221	2 216 448	2 292 451	2 077 702	2 271 995	2 158 430	2 127 790
-Household appliances	9 689 592	612 982	937 904	623 410	791 378	808 398	807 672
-Electrical machinery	37 524 098	2 441 475	3 548 522	2 619 776	2 935 134	3 220 693	3 159 356
<b>Radio, television and communication apparatus and professional equipment</b>	<b>13 079 544</b>	<b>1 045 539</b>	<b>1 217 333</b>	<b>1 147 233</b>	<b>1 135 557</b>	<b>1 106 512</b>	<b>1 235 322</b>
-Radio, television and communication apparatus	5 511 967	467 631	554 376	574 500	477 860	481 392	584 501
-Professional equipment	7 567 577	577 908	662 957	572 733	657 697	625 119	650 821
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>162 413 248</b>	<b>10 202 441</b>	<b>17 073 136</b>	<b>10 948 730</b>	<b>13 672 613</b>	<b>14 970 647</b>	<b>14 687 149</b>
-Motor vehicles	82 269 350	5 354 078	9 018 042	5 820 527	6 812 990	7 523 450	7 347 776
-Bodies for motor vehicles, trailers and semi-trailers	7 617 444	421 316	767 938	546 669	570 950	621 732	744 949
-Parts and accessories	56 468 513	3 082 660	5 841 620	3 392 651	4 786 328	5 512 341	5 268 290
-Other transport equipment	16 057 941	1 344 387	1 445 536	1 188 883	1 502 345	1 313 124	1 326 135
<b>Furniture and other manufacturing division</b>	<b>56 657 063</b>	<b>5 287 426</b>	<b>5 104 585</b>	<b>4 864 115</b>	<b>5 617 785</b>	<b>4 732 856</b>	<b>5 232 487</b>
-Furniture	12 004 902	818 261	1 341 997	915 875	940 479	992 301	1 046 422
-Other manufacturing groups	44 652 161	4 469 165	3 762 588	3 948 240	4 677 307	3 740 555	4 186 066
<b>Total</b>	<b>1 253 056 647</b>	<b>94 154 368</b>	<b>119 520 362</b>	<b>98 680 532</b>	<b>103 744 859</b>	<b>107 778 145</b>	<b>109 214 798</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 2010	Actual values			Seasonally adjusted values		
		December 2009	1/ December 2010	Percentage change between December 2009 and December 2010	November 2010	December 2010	Percentage change between November and December 2010
<b>Food and beverages</b>	<b>247 870 269</b>	<b>23 471 636</b>	<b>24 833 807</b>	<b>5,8</b>	<b>21 357 107</b>	<b>21 769 323</b>	<b>1,9</b>
-Meat, fish, fruit, etc.	68 029 869	6 134 528	6 585 078	7,3	5 972 351	5 998 760	0,4
-Dairy products	21 762 067	1 998 062	2 064 326	3,3	1 882 807	1 827 061	-3,0
-Grain mill products	41 624 805	3 711 699	3 484 460	-6,1	3 518 432	3 348 172	-4,8
-Other food products	54 910 735	4 401 351	4 967 979	12,9	4 525 326	5 095 513	12,6
-Beverages	61 542 793	7 225 996	7 731 964	7,0	5 458 191	5 499 816	0,8
<b>Textiles, clothing, leather and footwear</b>	<b>37 402 016</b>	<b>2 627 564</b>	<b>2 464 886</b>	<b>-6,2</b>	<b>3 105 510</b>	<b>2 984 059</b>	<b>-3,9</b>
-Textiles	5 523 089	335 948	315 993	-5,9	468 540	451 970	-3,5
-Other textile products	9 413 038	654 191	603 656	-7,7	762 587	745 673	-2,2
-Knitted, crocheted articles	1 791 550	121 702	107 080	-12,0	140 929	138 485	-1,7
-Wearing apparel	12 934 523	982 969	925 634	-5,8	1 047 955	1 034 745	-1,3
-Leather and leather products	4 009 159	261 090	245 046	-6,1	360 885	314 948	-12,7
-Footwear	3 730 657	271 664	267 477	-1,5	324 614	298 239	-8,1
<b>Wood and wood products, paper, publishing and printing</b>	<b>108 059 506</b>	<b>7 570 083</b>	<b>8 276 007</b>	<b>9,3</b>	<b>9 106 563</b>	<b>9 175 844</b>	<b>0,8</b>
-Sawmilling and planing of wood	7 169 780	433 014	504 833	16,6	576 564	648 866	12,5
-Products of wood	15 671 530	1 084 371	1 121 156	3,4	1 350 450	1 370 998	1,5
-Paper and paper products	50 374 908	3 558 520	4 056 450	14,0	4 233 702	4 314 173	1,9
-Publishing	14 397 231	1 101 103	1 126 853	2,3	1 189 864	1 177 362	-1,1
-Printing, recorded media	20 446 057	1 393 075	1 466 715	5,3	1 755 983	1 664 445	-5,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>281 160 156</b>	<b>21 092 043</b>	<b>21 538 989</b>	<b>2,1</b>	<b>23 352 618</b>	<b>23 968 864</b>	<b>2,6</b>
-Coke, petroleum products and nuclear fuel	96 575 121	7 692 614	6 862 157	-10,8	7 576 312	7 256 024	-4,2
-Basic chemicals	60 854 494	4 088 822	5 121 551	25,3	5 220 316	6 015 835	15,2
-Other chemical products	69 532 671	5 583 981	5 627 238	0,8	5 896 559	6 039 138	2,4
-Rubber products	12 022 322	773 347	844 851	9,2	1 074 739	1 084 288	0,9
-Plastic products	42 175 548	2 953 279	3 083 192	4,4	3 584 692	3 573 578	-0,3
<b>Glass and non-metallic mineral products</b>	<b>41 043 087</b>	<b>2 829 403</b>	<b>2 881 555</b>	<b>1,8</b>	<b>3 577 311</b>	<b>3 633 262</b>	<b>1,6</b>
-Glass and glass products	7 022 938	566 455	611 561	8,0	633 293	638 608	0,8
-Non-metallic mineral products	34 020 149	2 262 948	2 269 994	0,3	2 944 018	2 994 655	1,7
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>267 847 660</b>	<b>17 586 758</b>	<b>19 105 434</b>	<b>8,6</b>	<b>23 248 329</b>	<b>23 369 131</b>	<b>0,5</b>
-Basic iron and steel products	92 179 845	5 230 994	6 320 906	20,8	8 411 431	8 528 883	1,4
-Non-ferrous metal products	48 199 079	3 274 311	3 903 711	19,2	4 224 770	4 321 884	2,3
-Structural metal products	21 968 432	1 546 433	1 477 337	-4,5	1 917 520	1 920 971	0,2
-Other fabricated metal products	40 438 355	2 561 362	2 657 083	3,7	3 447 057	3 428 676	-0,5
-General purpose machinery	27 341 136	2 144 228	2 045 285	-4,6	2 280 724	2 233 254	-2,1
-Special purpose machinery	28 031 221	2 216 448	2 077 702	-6,3	2 158 430	2 127 790	-1,4
-Household appliances	9 689 592	612 982	623 410	1,7	808 398	807 672	-0,1
<b>Electrical machinery</b>	<b>37 524 098</b>	<b>2 441 475</b>	<b>2 619 776</b>	<b>7,3</b>	<b>3 220 693</b>	<b>3 159 356</b>	<b>-1,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>13 079 544</b>	<b>1 045 539</b>	<b>1 147 233</b>	<b>9,7</b>	<b>1 106 512</b>	<b>1 235 322</b>	<b>11,6</b>
-Radio, television and communication apparatus	5 511 967	467 631	574 500	22,9	481 392	584 501	21,4
-Professional equipment	7 567 577	577 908	572 733	-0,9	625 119	650 821	4,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>162 413 248</b>	<b>10 202 441</b>	<b>10 948 730</b>	<b>7,3</b>	<b>14 970 647</b>	<b>14 687 149</b>	<b>-1,9</b>
-Motor vehicles	82 269 350	5 354 078	5 820 527	8,7	7 523 450	7 347 776	-2,3
-Bodies for motor vehicles, trailers and semi-trailers	7 617 444	421 316	546 669	29,8	621 732	744 949	19,8
-Parts and accessories	56 468 513	3 082 660	3 392 651	10,1	5 512 341	5 268 290	-4,4
-Other transport equipment	16 057 941	1 344 387	1 188 883	-11,6	1 313 124	1 326 135	1,0
<b>Furniture and other manufacturing division</b>	<b>56 657 063</b>	<b>5 287 426</b>	<b>4 864 115</b>	<b>-8,0</b>	<b>4 732 856</b>	<b>5 232 487</b>	<b>10,6</b>
-Furniture	12 004 902	818 261	915 875	11,9	992 301	1 046 422	5,5
-Other manufacturing groups	44 652 161	4 469 165	3 948 240	-11,7	3 740 555	4 186 066	11,9
<b>Total</b>	<b>1 253 056 647</b>	<b>94 154 368</b>	<b>98 680 532</b>	<b>4,8</b>	<b>107 778 145</b>	<b>109 214 798</b>	<b>1,3</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)		
		Oct. to Dec. 2009	Oct. to Dec. 2010	Annual percentage change between Oct. to Dec. 2009 and Oct. to Dec. 2010	Oct. to Dec. 2009	Oct. to Dec. 2010	Annual percentage change between Oct. to Dec. 2009 and Oct. to Dec. 2010
<b>Food and beverages</b>	<b>15,4</b>	<b>125,4</b>	<b>131,5</b>	<b>4,9</b>	<b>67 331 006</b>	<b>70 264 727</b>	<b>4,4</b>
-Meat, fish, fruit, etc.	1,8	119,0	124,7	4,8	17 842 729	18 948 022	6,2
-Dairy products	0,8	122,3	125,5	2,6	5 831 278	6 040 411	3,6
-Grain mill products	0,8	113,8	112,7	-1,0	11 251 674	10 869 264	-3,4
-Other food products	5,2	115,6	123,4	6,7	14 632 281	15 107 414	3,2
-Beverages	6,8	136,4	142,5	4,5	17 773 044	19 299 616	8,6
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>92,5</b>	<b>86,0</b>	<b>-7,0</b>	<b>10 180 706</b>	<b>9 709 749</b>	<b>-4,6</b>
-Textiles	0,7	65,5	63,0	-3,8	1 362 922	1 341 285	-1,6
-Other textile products	0,9	79,3	73,8	-6,9	2 551 320	2 391 522	-6,3
-Knitted, crocheted articles	0,2	100,9	95,2	-5,6	446 312	411 862	-7,7
-Wearing apparel	2,1	101,4	91,0	-10,3	3 758 454	3 463 784	-7,8
-Leather and leather products	0,6	92,2	87,5	-5,1	963 827	995 319	3,3
-Footwear	0,4	115,5	117,9	2,1	1 097 871	1 105 977	0,7
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>93,3</b>	<b>101,0</b>	<b>8,3</b>	<b>26 080 351</b>	<b>28 404 716</b>	<b>8,9</b>
-Sawmilling and planing of wood	0,7	69,7	84,2	20,8	1 634 793	1 849 067	13,1
-Products of wood	1,3	89,3	92,6	3,7	3 980 099	4 168 004	4,7
-Paper and paper products	3,8	104,7	115,9	10,7	11 624 261	12 977 975	11,6
-Publishing	1,9	85,1	84,8	-0,4	3 728 307	3 791 320	1,7
-Printing, recorded media	2,5	90,5	99,3	9,7	5 112 891	5 618 350	9,9
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>112,0</b>	<b>112,3</b>	<b>0,3</b>	<b>69 335 597</b>	<b>73 487 914</b>	<b>6,0</b>
-Coke, petroleum products and nuclear fuel	8,5	101,3	86,2	-14,9	23 394 589	23 190 368	-0,9
-Basic chemicals	4,5	116,1	131,9	13,6	14 498 521	17 111 268	18,0
-Other chemical products	5,3	116,0	123,2	6,2	18 075 002	18 821 358	4,1
-Rubber products	1,0	75,1	84,7	12,8	2 856 691	3 104 765	8,7
-Plastic products	2,7	143,9	150,4	4,5	10 510 794	11 260 155	7,1
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>97,9</b>	<b>96,7</b>	<b>-1,2</b>	<b>10 455 364</b>	<b>10 770 640</b>	<b>3,0</b>
-Glass and glass products	1,0	137,4	136,3	-0,8	2 024 385	2 178 990	7,6
-Non-metallic mineral products	3,8	88,0	86,7	-1,5	8 430 979	8 591 650	1,9
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>91,2</b>	<b>88,5</b>	<b>-3,0</b>	<b>63 375 340</b>	<b>68 445 650</b>	<b>8,0</b>
-Basic iron and steel products	7,7	87,9	73,9	-15,9	19 862 278	22 963 408	15,6
-Non-ferrous metal products	3,4	97,5	104,6	7,3	11 021 044	13 195 112	19,7
-Structural metal products	2,0	91,8	95,2	3,7	5 539 286	5 652 039	2,0
-Other fabricated metal products	3,8	100,9	110,5	9,5	9 945 320	10 345 588	4,0
-General purpose machinery	2,4	75,6	73,9	-2,2	7 358 742	7 112 796	-3,3
-Special purpose machinery	3,1	92,2	85,2	-7,6	7 308 237	6 655 403	-8,9
-Household appliances	0,6	92,1	99,2	7,7	2 340 433	2 521 304	7,7
<b>Electrical machinery</b>	<b>2,5</b>	<b>119,6</b>	<b>128,1</b>	<b>7,1</b>	<b>8 710 322</b>	<b>9 379 917</b>	<b>7,7</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>98,7</b>	<b>99,6</b>	<b>0,9</b>	<b>3 388 572</b>	<b>3 497 777</b>	<b>3,2</b>
-Radio, television and communication apparatus	0,4	101,1	104,4	3,3	1 515 998	1 606 835	6,0
-Professional equipment	0,7	97,2	96,6	-0,6	1 872 574	1 890 942	1,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>88,6</b>	<b>106,4</b>	<b>20,1</b>	<b>38 916 903</b>	<b>44 622 496</b>	<b>14,7</b>
-Motor vehicles	4,9	72,7	103,3	42,1	19 746 402	23 353 241	18,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	110,5	124,0	12,2	1 785 365	2 064 811	15,7
-Parts and accessories	4,7	95,0	104,7	10,2	13 078 143	15 010 598	14,8
-Other transport equipment	0,9	128,8	122,3	-5,0	4 306 993	4 193 846	-2,6
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>102,0</b>	<b>94,1</b>	<b>-7,7</b>	<b>15 429 868</b>	<b>15 005 514</b>	<b>-2,8</b>
-Furniture	1,3	100,0	103,7	3,7	3 226 315	3 509 135	8,8
-Other manufacturing groups	3,9	102,7	90,8	-11,6	12 203 553	11 496 379	-5,8
<b>Total</b>	<b>100,0</b>	<b>102,7</b>	<b>105,3</b>	<b>2,5</b>	<b>313 204 029</b>	<b>333 589 100</b>	<b>6,5</b>

**Table 10 – Annual percentage change in the cumulative physical volume of manufacturing production and estimated sales according to manufacturing divisions and major groups**

Manufacturing divisions and major groups	Weights 2005	Indices (base 2005=100)				Value of sales (R million)			
		Jan. to Dec. 2009	Jan. to Dec. 2010	Annual percentage change between 2009 and 2010	Contribution (percentage points) 1/	Jan. to Dec. 2009	Jan. to Dec. 2010	Annual percentage change between 2009 and 2010	Difference in sales between 2009 and 2010
<b>Food and beverages</b>	<b>15,4</b>	<b>111,8</b>	<b>116,3</b>	<b>4,0</b>	<b>0,7</b>	<b>239 998</b>	<b>247 870</b>	<b>3,3</b>	<b>7 872</b>
-Meat, fish, fruit, etc.	1,8	109,3	115,5	5,7	0,1	64 578	68 030	5,3	3 452
-Dairy products	0,8	109,7	111,6	1,7	0,0	20 928	21 762	4,0	834
-Grain mill products	0,8	108,5	110,4	1,8	0,0	44 238	41 625	-5,9	-2 613
-Other food products	5,2	110,3	115,8	5,0	0,3	53 021	54 911	3,6	1 890
-Beverages	6,8	114,2	118,2	3,5	0,3	57 233	61 543	7,5	4 310
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>89,5</b>	<b>83,9</b>	<b>-6,3</b>	<b>-0,3</b>	<b>39 358</b>	<b>37 402</b>	<b>-5,0</b>	<b>-1 956</b>
-Textiles	0,7	73,7	66,7	-9,5	-0,1	6 020	5 523	-8,3	-497
-Other textile products	0,9	78,1	72,9	-6,7	0,0	9 944	9 413	-5,3	-531
-Knitted, crocheted articles	0,2	104,4	103,6	-0,8	0,0	1 821	1 792	-1,6	-29
-Wearing apparel	2,1	96,5	86,5	-10,4	-0,2	14 399	12 935	-10,2	-1 464
-Leather and leather products	0,6	83,6	89,3	6,8	0,0	3 569	4 009	12,3	440
-Footwear	0,4	107,3	106,9	-0,4	0,0	3 605	3 731	3,5	126
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>92,0</b>	<b>96,3</b>	<b>4,7</b>	<b>0,5</b>	<b>102 039</b>	<b>108 060</b>	<b>5,9</b>	<b>6 021</b>
-Sawmilling and planing of wood	0,7	73,4	84,0	14,4	0,1	6 412	7 170	11,8	758
-Products of wood	1,3	88,6	87,7	-1,0	0,0	16 025	15 672	-2,2	-353
-Paper and paper products	3,8	103,6	112,8	8,9	0,4	46 059	50 375	9,4	4 316
-Publishing	1,9	86,8	81,1	-6,6	-0,1	14 886	14 397	-3,3	-489
-Printing, recorded media	2,5	84,8	90,3	6,5	0,1	18 656	20 446	9,6	1 790
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>105,0</b>	<b>111,4</b>	<b>6,1</b>	<b>1,5</b>	<b>262 540</b>	<b>281 160</b>	<b>7,1</b>	<b>18 620</b>
-Coke, petroleum products and nuclear fuel	8,5	95,3	92,8	-2,6	-0,2	89 965	96 575	7,3	6 610
-Basic chemicals	4,5	107,9	126,2	17,0	0,9	56 237	60 854	8,2	4 617
-Other chemical products	5,3	109,6	117,3	7,0	0,4	66 513	69 533	4,5	3 020
-Rubber products	1,0	77,3	82,5	6,7	0,1	11 347	12 022	5,9	675
-Plastic products	2,7	131,2	143,5	9,4	0,3	38 478	42 176	9,6	3 698
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,5</b>	<b>94,0</b>	<b>-2,6</b>	<b>-0,1</b>	<b>40 113</b>	<b>41 043</b>	<b>2,3</b>	<b>930</b>
-Glass and glass products	1,0	121,6	121,0	-0,5	0,0	6 692	7 023	4,9	331
-Non-metallic mineral products	3,8	90,2	87,2	-3,3	-0,1	33 421	34 020	1,8	599
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>85,9</b>	<b>89,5</b>	<b>4,2</b>	<b>0,9</b>	<b>249 364</b>	<b>267 848</b>	<b>7,4</b>	<b>18 484</b>
-Basic iron and steel products	7,7	72,0	80,6	11,9	0,7	77 591	92 180	18,8	14 589
-Non-ferrous metal products	3,4	95,4	100,3	5,1	0,2	42 551	48 199	13,3	5 648
-Structural metal products	2,0	96,7	92,9	-3,9	-0,1	23 111	21 968	-4,9	-1 143
-Other fabricated metal products	3,8	104,5	106,5	1,9	0,1	40 036	40 438	1,0	402
-General purpose machinery	2,4	73,2	70,1	-4,2	-0,1	28 209	27 341	-3,1	-868
-Special purpose machinery	3,1	88,3	89,9	1,8	0,1	28 424	28 031	-1,4	-393
-Household appliances	0,6	96,0	98,3	2,4	0,0	9 442	9 690	2,6	248
<b>Electrical machinery</b>	<b>2,5</b>	<b>121,2</b>	<b>127,4</b>	<b>5,1</b>	<b>0,2</b>	<b>35 327</b>	<b>37 524</b>	<b>6,2</b>	<b>2 197</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>98,7</b>	<b>94,2</b>	<b>-4,6</b>	<b>-0,1</b>	<b>13 518</b>	<b>13 080</b>	<b>-3,2</b>	<b>-438</b>
-Radio, television and communication apparatus	0,4	102,8	92,0	-10,5	0,0	6 042	5 512	-8,8	-530
-Professional equipment	0,7	96,1	95,7	-0,4	0,0	7 477	7 568	1,2	91
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>79,7</b>	<b>96,0</b>	<b>20,5</b>	<b>1,8</b>	<b>142 178</b>	<b>162 413</b>	<b>14,2</b>	<b>20 235</b>
-Motor vehicles	4,9	66,1	85,5	29,3	1,0	69 665	82 269	18,1	12 604
-Bodies for motor vehicles, trailers and semi-trailers	0,5	104,3	119,1	14,2	0,1	6 890	7 617	10,6	727
-Parts and accessories	4,7	82,4	100,2	21,6	0,9	48 905	56 469	15,5	7 564
-Other transport equipment	0,9	124,8	117,9	-5,5	-0,1	16 719	16 058	-4,0	-661
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>94,5</b>	<b>91,8</b>	<b>-2,9</b>	<b>-0,1</b>	<b>55 680</b>	<b>56 657</b>	<b>1,8</b>	<b>977</b>
-Furniture	1,3	88,8	92,0	3,6	0,0	11 263	12 005	6,6	742
-Other manufacturing groups	3,9	96,4	91,7	-4,9	-0,2	44 417	44 652	0,5	235
<b>Total</b>	<b>100,0</b>	<b>96,2</b>	<b>100,9</b>	<b>4,9</b>	<b>4,9</b>	<b>1 180 116</b>	<b>1 253 057</b>	<b>6,2</b>	<b>72 941</b>

1/ The contribution (percentage points) of a major group or division 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.

## 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 Register (BR), 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 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.
- Response rate**
- 9 The preliminary response rate for the survey on manufacturing production and sales for December 2010 was 91,3%. Improved response rate for November 2010 was 93,5%.
- 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 3 027 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 3 027 enterprises, which was drawn in April 2010 from a population then of 53 562 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, which are in line with international best practice, are described in more detail on the Stats SA website at [www.statssa.gov.za/publications/publicationsearch.asp](http://www.statssa.gov.za/publications/publicationsearch.asp).
- 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 2010, 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 2010).

**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 to 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.
- Pre-release policy** 24 Stats SA's pre-release policy may be inspected at its website, [www.statssa.gov.za](http://www.statssa.gov.za)
- Symbols and abbreviations** 25
- |          |   |
|----------|---|
| 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.

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

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

Class limits: Manufacturing

Enterprise size	Lower limits	Upper limits
Very small	0	12 500 000
Small	12 500 001	32 500 000
Medium	32 500 001	127 500 000
Large	127 500 001	

## 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**

Manufacturing divisions and major groups	Weights according to the 1996 Census of Manufacturing 1998 - 2000	Weights according to the 2001 LSS of the manufacturing industry 2001 - 2004	Weights according to the 2005 LSS of the manufacturing industry 2005 - 2010
<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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