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# Manufacturing: Production and sales (Preliminary)

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## Summary of findings: Manufacturing production and sales

### Key figures

Table A – Selected key figures regarding manufacturing production and sales for July 2010

Estimates	July 2010	% change between July 2009 and July 2010	% change between May to July 2009 and May to July 2010	% change between January to July 2009 and January to July 2010
Physical volume of manufacturing production index (2005=100)	106,3	7,5	8,3	6,6
Total estimated sales of manufactured products (R million)	107 543	9,3	9,9	6,6

Seasonally adjusted estimates	July 2010	% change between June and July 2010	% change between February to April 2010 and May to July 2010
Physical volume of manufacturing production index (2005=100)	103,3	0,7	1,5
Total value of sales of manufactured products (R million)	104 444	-1,1	0,8

**Seasonally adjusted manufacturing production for the three months ended July 2010 increased by 1,5% compared with the previous three months ended April 2010. Higher production levels were reported by six of the ten manufacturing divisions during this period.**

The increase was driven by higher production in the petroleum, chemical products, rubber and plastic products division (3,5% and contributing 0,9 of a percentage point), the food and beverages division (4,0% and contributing 0,7 of a percentage point), the wood and wood products, paper, publishing and printing division (4,5% and contributing 0,4 of a percentage point), the motor vehicles, parts and accessories and other transport equipment division (3,0% and contributing 0,3 of a percentage point) and the glass and non-metallic mineral products division (4,5% and contributing 0,2 of a percentage point) (see Table B).

These increases were partially counteracted by a decrease in the basic iron and steel, non-ferrous metal products, metal products and machinery division (-3,2% and contributing -0,7 of a percentage point).

**Manufacturing production for July 2010 increased by 7,5% compared with July 2009.**

The 7,5% increase in manufacturing production for July 2010 compared with July 2009 was mainly due to higher production in the petroleum, chemical products, rubber and plastic products division (11,6% and contributing 2,8 percentage points), the motor vehicles, parts and accessories and other transport equipment division (24,5% and contributing 2,4 percentage points), the wood and wood products, paper, publishing and printing division (14,3% and contributing 1,3 percentage points), the basic iron and steel, non-ferrous metal products, metal products and machinery division (6,5% and contributing 1,3 percentage points) and the furniture and other manufacturing division (7,9% and contributing 0,4 of a percentage point) (see Table 4b).

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

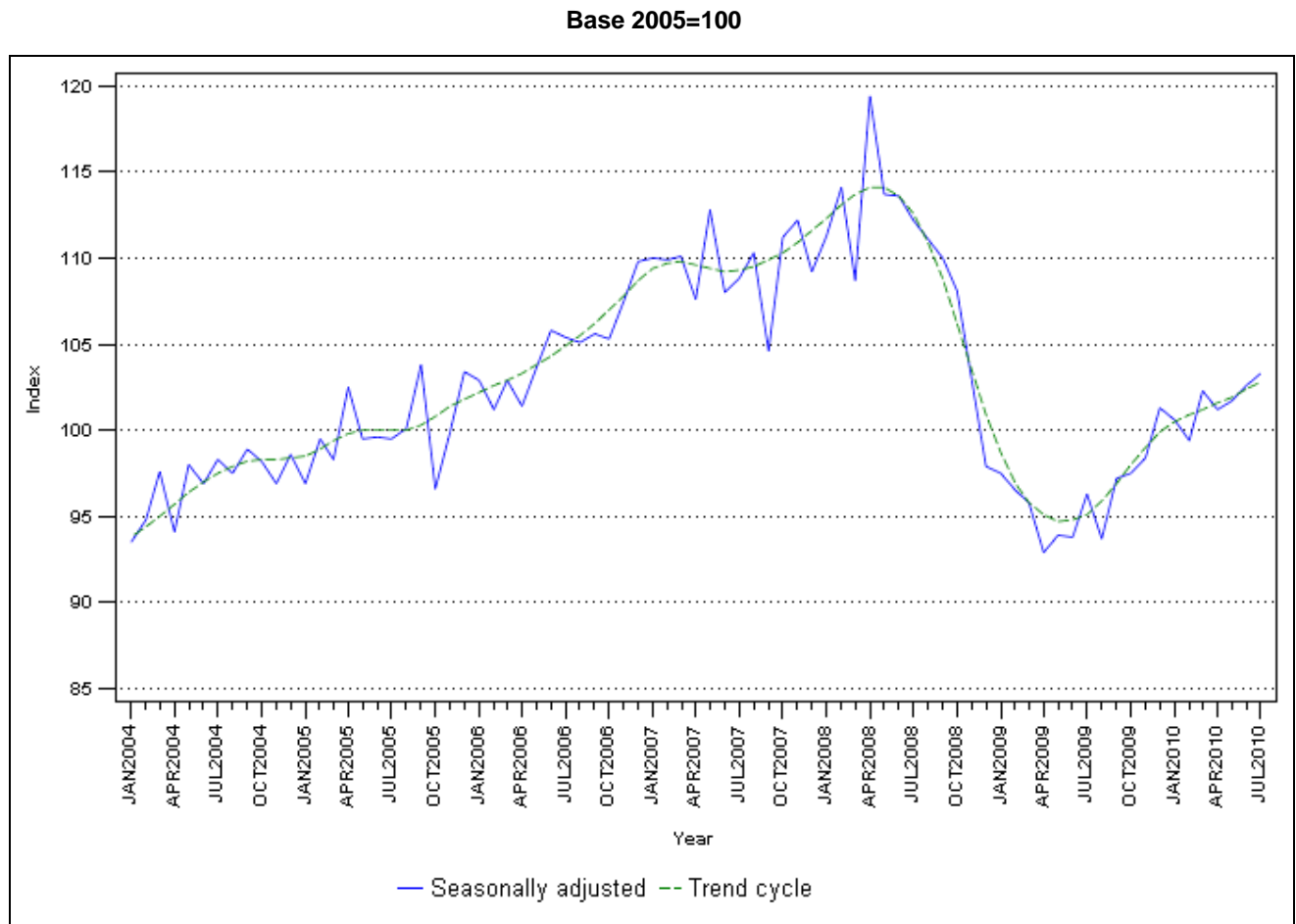
**Base 2005=100**

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 February to April 2010	Average seasonally adjusted production index for May to July 2010	Quarterly percentage change of May to July 2010 compared with the preceding three months	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
<b>Food and beverages</b>	<b>15,4</b>	<b>112,4</b>	<b>116,9</b>	<b>4,0</b>	<b>0,7</b>
-Meat, fish, fruit, etc.	1,8	109,8	113,8	3,6	0,1
-Dairy products	0,8	106,1	110,5	4,1	0,0
-Grain mill products	0,8	108,1	110,9	2,6	0,0
-Other food products	5,2	110,1	120,4	9,4	0,5
-Beverages	6,8	116,1	116,4	0,3	0,0
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>85,5</b>	<b>85,6</b>	<b>0,1</b>	<b>0,0</b>
-Textiles	1,6	72,8	70,5	-3,2	0,0
-Wearing apparel	2,3	89,0	89,3	0,3	0,0
-Leather and leather products	0,6	88,7	95,6	7,8	0,0
-Footwear	0,4	108,6	107,0	-1,5	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>94,2</b>	<b>98,4</b>	<b>4,5</b>	<b>0,4</b>
-Wood and products of wood	2,0	84,9	84,4	-0,6	0,0
-Paper and paper products	3,8	110,9	114,4	3,2	0,1
-Publishing and printing	4,3	83,6	90,7	8,5	0,3
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>110,7</b>	<b>114,6</b>	<b>3,5</b>	<b>0,9</b>
-Coke, petroleum products and nuclear fuel	8,5	88,9	97,8	10,0	0,8
-Basic chemicals	4,5	126,4	132,8	5,1	0,3
-Other chemical products	5,3	118,6	117,7	-0,8	0,0
-Rubber products	1,0	85,9	84,6	-1,5	0,0
-Plastic products	2,7	146,5	141,4	-3,5	-0,1
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>91,2</b>	<b>95,3</b>	<b>4,5</b>	<b>0,2</b>
-Glass and glass products	1,0	115,8	119,5	3,2	0,0
-Non-metallic mineral products	3,8	85,0	89,3	5,1	0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>93,1</b>	<b>90,1</b>	<b>-3,2</b>	<b>-0,7</b>
-Basic iron and steel products	7,7	89,0	81,1	-8,9	-0,6
-Basic precious, non-ferrous metal products	3,4	100,7	98,4	-2,3	-0,1
-Fabricated metal products	5,7	100,1	101,4	1,3	0,1
-Machinery and equipment	6,1	87,1	86,2	-1,0	-0,1
<b>Electrical machinery</b>	<b>2,5</b>	<b>127,1</b>	<b>127,1</b>	<b>0,0</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>96,5</b>	<b>92,6</b>	<b>-4,0</b>	<b>0,0</b>
-Radio, television and communication apparatus	0,4	94,5	88,0	-6,9	0,0
-Professional equipment	0,7	97,7	95,5	-2,3	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>95,5</b>	<b>98,4</b>	<b>3,0</b>	<b>0,3</b>
-Motor vehicles	4,9	83,7	90,2	7,8	0,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	119,9	124,1	3,5	0,0
-Parts and accessories	4,7	103,1	100,7	-2,3	-0,1
-Other transport equipment	0,9	106,7	116,2	8,9	0,1
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>96,6</b>	<b>93,0</b>	<b>-3,7</b>	<b>-0,2</b>
-Furniture	1,3	91,6	93,7	2,3	0,0
-Other manufacturing groups	3,9	98,2	92,7	-5,6	-0,2
<b>Total</b>	<b>100,0</b>	<b>101,0</b>	<b>102,5</b>	<b>1,5</b>	<b>1,5</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 shows the seasonally adjusted and trend series for the volume index of manufacturing production between January 2004 and July 2010.

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



**Total value of sales of manufactured products at current prices for the three months ended July 2010 increased by 0,8% (R2 599 million), after seasonal adjustment, compared with the previous three months ended April 2010. Seven of the ten manufacturing divisions reported positive growth rates during this period (see Table C).**

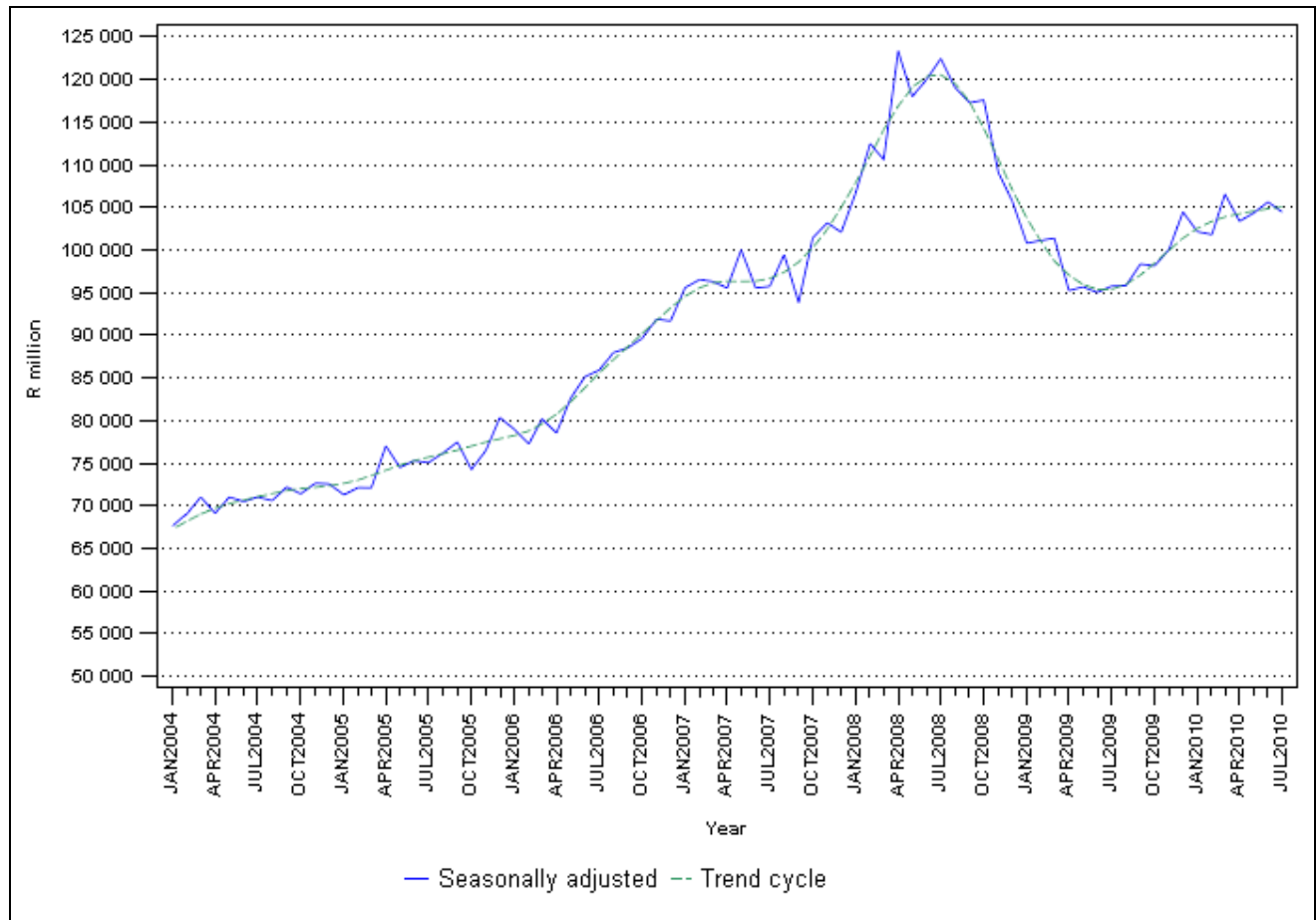
Large increases were mainly reported by the petroleum, chemical products, rubber and plastic products division (2,9% or R2 000 million) and the wood and wood products, paper, publishing and printing division (4,3% or R1 138 million) during the above-mentioned period (see Table C).

**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 February to April 2010	Seasonally adjusted sales May to July 2010	Percentage change between February to April and May to July 2010	Difference in seasonally adjusted sales of manufacturing divisions between February to April and May to July 2010
	R000	R000	%	R000
<b>Food and beverages</b>	<b>60 732 610</b>	<b>61 409 675</b>	<b>1,1</b>	<b>677 065</b>
-Food and food products	45 667 066	46 479 252	1,8	812 186
-Beverages	15 065 542	14 930 424	-0,9	-135 118
<b>Textiles, clothing, leather and footwear</b>	<b>9 594 664</b>	<b>9 514 515</b>	<b>-0,8</b>	<b>-80 149</b>
-Textiles	3 895 301	3 749 016	-3,8	-146 285
-Wearing apparel	3 786 788	3 753 804	-0,9	-32 984
-Leather and leather products	973 212	1 072 200	10,2	98 988
-Footwear	939 361	939 494	0,0	133
<b>Wood and wood products, paper, publishing and printing</b>	<b>26 365 583</b>	<b>27 504 007</b>	<b>4,3</b>	<b>1 138 424</b>
-Wood and products of wood	5 676 529	5 516 123	-2,8	-160 406
-Paper and paper products	12 230 812	12 897 798	5,5	666 986
-Publishing and printing	8 458 242	9 090 086	7,5	631 844
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>69 048 540</b>	<b>71 048 901</b>	<b>2,9</b>	<b>2 000 361</b>
-Coke, petroleum products and nuclear fuel	23 504 090	25 099 728	6,8	1 595 638
-Basic chemicals	14 696 614	14 894 642	1,3	198 028
-Other chemical products	17 181 622	17 547 027	2,1	365 405
-Rubber products	3 019 049	2 996 619	-0,7	-22 430
-Plastic products	10 647 164	10 510 884	-1,3	-136 280
<b>Glass and non-metallic mineral products</b>	<b>9 972 712</b>	<b>10 245 224</b>	<b>2,7</b>	<b>272 512</b>
-Glass and glass products	1 626 837	1 696 974	4,3	70 137
-Non-metallic mineral products	8 345 875	8 548 251	2,4	202 376
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>69 219 496</b>	<b>66 707 976</b>	<b>-3,6</b>	<b>-2 511 520</b>
-Basic iron and steel products	24 717 037	23 137 947	-6,4	-1 579 090
-Basic precious, non-ferrous metal products	11 654 496	11 522 085	-1,1	-132 411
-Fabricated metal products	15 937 543	15 350 239	-3,7	-587 304
-Machinery and equipment	16 910 418	16 697 707	-1,3	-212 711
<b>Electrical machinery</b>	<b>9 276 227</b>	<b>9 629 668</b>	<b>3,8</b>	<b>353 441</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>3 313 955</b>	<b>3 201 420</b>	<b>-3,4</b>	<b>-112 535</b>
-Radio, television and communication apparatus	1 457 424	1 283 398	-11,9	-174 026
-Professional equipment	1 856 531	1 918 024	3,3	61 493
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>40 244 398</b>	<b>40 720 426</b>	<b>1,2</b>	<b>476 028</b>
-Motor vehicles, trailers, parts and accessories	36 623 991	36 737 946	0,3	113 955
-Other transport equipment	3 620 406	3 982 480	10,0	362 074
<b>Furniture and other manufacturing division</b>	<b>13 999 058</b>	<b>14 384 531</b>	<b>2,8</b>	<b>385 473</b>
-Furniture	2 950 877	3 011 163	2,0	60 286
-Other manufacturing groups	11 048 180	11 373 368	2,9	325 188
<b>Total</b>	<b>311 767 240</b>	<b>314 366 348</b>	<b>0,8</b>	<b>2 599 108</b>

Figure 2 shows the seasonally adjusted and trend series for sales of manufactured products between January 2004 and July 2010.

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



**P J Lehohla**  
**Statistician-General**

## Article: Changes to the monthly current indicator survey and the impact on the statistical series

### Business register and samples

Today Statistics South Africa (Stats SA) publishes results for the monthly survey of manufacturing production and sales from a new sample drawn in April 2010, which replaces the previous sample that was drawn in April 2009. The sample was drawn from a business register of enterprises with an annual turnover of at least R300 000 and that are required to register with the South African Revenue Service (SARS) for value added tax.

Owing to the evolving nature of business, the business register is maintained on a continuous basis. The maintenance process is aimed, amongst other things, at capturing changes related to new businesses, ceased businesses, merged businesses and classification changes. In addition, Stats SA undertakes quality improvement surveys related to the business register, the primary objective of which is to capture up-to-date information about the structures and activities of large and complex businesses. This process enables Stats SA to review classification codes for these businesses. These changes are an essential part of the statistical architecture.

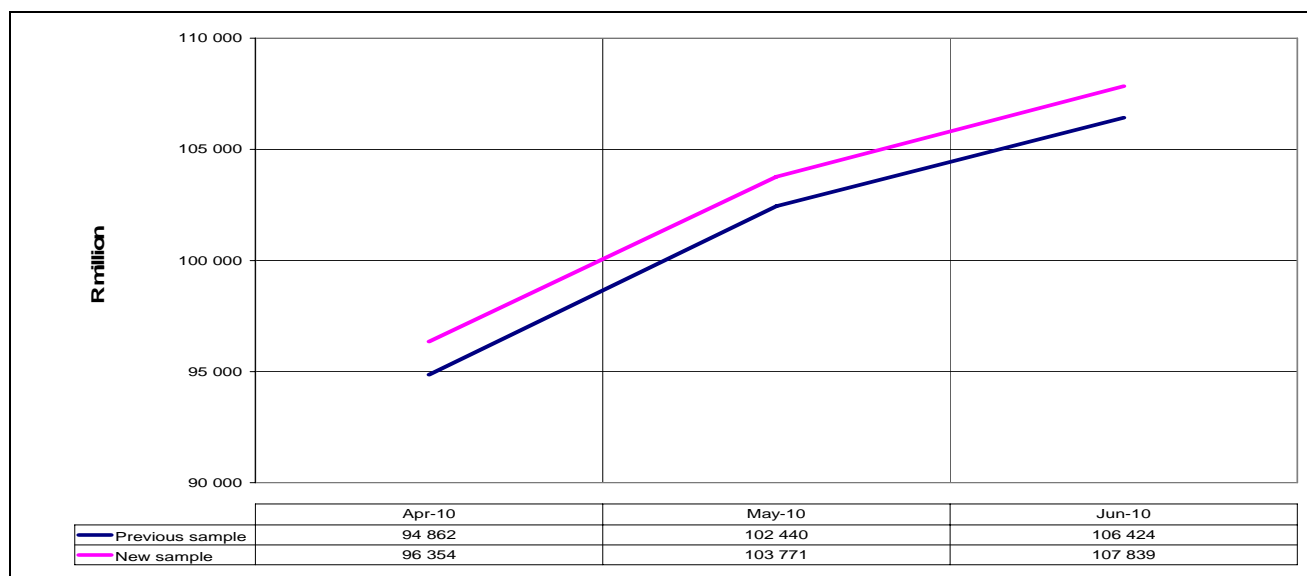
### Comparison of total sales between the previous and new samples of the manufacturing industry

The reported level of total sales for the monthly survey of the manufacturing industry for the months April to June 2010 based on the new sample was 1,4% higher than the level of total sales recorded for the previous sample (see Table D and Figure A). The previous sample was drawn in April 2009 and was operational for the last half of 2009 and the first half of 2010.

**Table D - Total sales for previous and new samples for the manufacturing industry – April to June 2010**

Manufacturing industry	Previous sample (R million)	New sample (R million)	Difference (R million)	Difference (percentage)
		303 726	307 964	4 238

**Figure A – Total value of sales of manufactured products: monthly levels of previous and new samples for April to June 2010**





**Comparison of sales between the previous and new samples by division**

The differences in sales between the previous and new samples by manufacturing division are shown in Table E. The largest change in relative (i.e. percentage) terms took place in the glass and non-metallic mineral products division (11,3% higher in the new sample). The largest change in absolute (i.e. rand) terms took place in the basic iron and steel, non-ferrous metal products, metal products and machinery division (R6 141 million higher in the new sample). Various data quality improvements account for these differences, for example the reclassification of enterprises from one industry to another.

**Table E - Manufacturing sales for previous and new samples by division: April to June 2010**

Manufacturing divisions	Previous sample	New sample	Difference	Difference
	R million	R million	(R million)	(percentage) 1/
Food and beverages	58 598	58 457	-141	-0,2
Textiles, clothing, leather and footwear	9 389	9 604	215	2,3
Wood and wood products, paper, publishing and printing	26 108	26 186	78	0,3
Petroleum, chemical products, rubber and plastic products	71 882	69 229	-2 653	-3,7
Glass and non-metallic mineral products	8 930	9 936	1 006	11,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	61 790	67 932	6 141	9,9
Electrical machinery	10 172	9 466	-706	-6,9
Radio, television and communication apparatus and professional equipment	3 278	3 096	-183	-5,6
Motor vehicles, parts and accessories and other transport equipment	39 157	39 813	656	1,7
Furniture and other manufacturing divisions	14 423	14 246	-177	-1,2
<b>Total manufacturing</b>	<b>303 726</b>	<b>307 964</b>	<b>4 238</b>	<b>1,4</b>

1/ The percentage difference is the difference between the April to June 2010 sales as recorded in the new sample divided by the April to June 2009 sales as recorded in the previous sample, expressed as a percentage.

**Backcasting**

In order to assist users of time series, the levels from the new sample for the survey have been adjusted back to the start of 1998, using the level for April 2010 as the end point for the backcast series.

## 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	1/ 101,7
Jun	97,6	100,1	106,6	109,0	114,9	94,9	1/ 103,7
Jul	100,0	100,9	107,4	111,1	115,1	98,9	1/ 106,3
Aug	100,3	103,3	108,8	114,3	114,8	96,7	
Sep	102,3	107,5	109,7	108,8	114,2	100,8	
Oct	108,2	106,9	117,0	124,1	121,1	109,2	
Nov	107,5	110,7	119,0	124,2	114,3	108,5	
Dec	87,0	91,4	96,9	96,5	87,9	90,5	
Year	97,1	100,0	104,8	109,6	110,4	96,2	

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	7,5
Aug	6,8	3,0	5,3	5,1	0,4	-15,8	
Sep	6,5	5,1	2,0	-0,8	5,0	-11,7	
Oct	4,7	-1,2	9,4	6,1	-2,4	-9,8	
Nov	5,8	3,0	7,5	4,4	-8,0	-5,1	
Dec	7,8	5,1	6,0	-0,4	-8,9	3,0	
Year	4,0	3,0	4,8	4,6	0,7	-12,9	

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	110,0	111,3	97,5	100,6
Feb	94,8	99,5	101,2	109,9	114,1	96,5	99,4
Mar	97,6	98,3	102,9	110,1	108,7	95,8	102,3
Apr	94,1	102,5	101,4	107,6	119,4	92,9	101,2
May	98,0	99,5	103,6	112,8	113,7	93,9	101,7
Jun	96,9	99,6	105,8	108,0	113,6	93,8	102,6
Jul	98,3	99,5	105,4	108,8	112,2	96,3	103,3
Aug	97,5	100,1	105,1	110,3	111,1	93,7	
Sep	98,9	103,8	105,6	104,6	110,0	97,2	
Oct	98,2	96,6	105,3	111,2	108,1	97,5	
Nov	96,9	99,9	107,5	112,2	102,9	98,4	
Dec	98,6	103,4	109,8	109,2	97,9	101,3	

**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 2009	Actual indices			Seasonally adjusted indices		
			July 2009	1/ June 2010	1/ July 2010	July 2009	June 2010	July 2010
<b>Food and beverages</b>	<b>15,4</b>	<b>111,8</b>	<b>114,6</b>	<b>117,0</b>	<b>114,1</b>	<b>117,4</b>	<b>117,2</b>	<b>116,7</b>
-Meat, fish, fruit, etc.	1,8	109,3	105,1	116,4	115,0	107,1	114,1	117,3
-Dairy products	0,8	109,7	105,8	102,4	105,3	112,8	109,3	112,0
-Grain mill products	0,8	108,5	112,4	116,0	113,9	110,0	111,6	111,4
-Other food products	5,2	110,3	131,4	135,6	133,4	123,3	121,0	125,5
-Beverages	6,8	114,2	105,6	104,9	100,3	117,0	116,6	111,0
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>89,5</b>	<b>92,8</b>	<b>84,8</b>	<b>85,2</b>	<b>92,1</b>	<b>86,3</b>	<b>84,8</b>
-Textiles	0,7	73,7	71,6	67,4	70,7	69,3	65,1	68,5
-Other textile products	0,9	78,1	78,9	70,0	73,5	79,3	70,4	74,2
-Knitted, crocheted articles	0,2	104,4	111,9	106,2	97,4	114,6	102,0	99,7
-Wearing apparel	2,1	96,5	99,6	88,2	86,3	98,9	92,2	86,0
-Leather and leather products	0,6	83,6	87,4	98,2	92,9	89,0	95,2	94,5
-Footwear	0,4	107,3	122,8	99,3	111,6	118,0	106,0	107,3
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>92,0</b>	<b>89,4</b>	<b>97,7</b>	<b>102,2</b>	<b>89,8</b>	<b>96,9</b>	<b>102,8</b>
-Sawmilling and planing of wood	0,7	73,4	81,1	79,9	89,4	76,2	80,1	83,8
-Products of wood	1,3	88,6	85,5	87,7	89,9	83,7	82,9	88,3
-Paper and paper products	3,8	103,6	97,6	121,7	114,3	98,5	116,3	116,0
-Publishing	1,9	86,8	82,9	80,6	78,7	85,4	82,3	81,3
-Printing, recorded media	2,5	84,8	86,0	83,8	111,1	86,6	90,1	111,3
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>105,0</b>	<b>109,9</b>	<b>117,8</b>	<b>122,6</b>	<b>105,1</b>	<b>115,9</b>	<b>117,0</b>
-Coke, petroleum products and nuclear fuel	8,5	95,3	103,3	102,5	109,4	96,1	98,8	101,5
-Basic chemicals	4,5	107,9	111,0	141,0	138,9	106,9	138,3	133,5
-Other chemical products	5,3	109,6	111,3	117,1	121,9	109,5	118,0	119,7
-Rubber products	1,0	77,3	81,0	84,7	97,4	75,1	84,4	90,2
-Plastic products	2,7	131,2	136,5	140,2	147,0	132,3	139,0	142,5
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,5</b>	<b>102,4</b>	<b>99,9</b>	<b>99,4</b>	<b>97,6</b>	<b>97,2</b>	<b>94,8</b>
-Glass and glass products	1,0	121,6	118,8	124,7	110,5	123,8	124,2	115,7
-Non-metallic mineral products	3,8	90,2	98,3	93,7	96,6	91,0	90,4	89,6
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>85,9</b>	<b>87,1</b>	<b>91,5</b>	<b>92,8</b>	<b>83,7</b>	<b>90,3</b>	<b>89,1</b>
-Basic iron and steel products	7,7	72,0	70,3	86,6	79,7	68,3	82,2	77,3
-Non-ferrous metal products	3,4	95,4	100,4	96,9	101,8	98,0	99,0	99,4
-Structural metal products	2,0	96,7	103,8	95,8	100,0	96,3	90,4	92,6
-Other fabricated metal products	3,8	104,5	111,5	108,7	119,7	101,4	105,1	108,5
-General purpose machinery	2,4	73,2	73,0	68,4	73,2	71,1	69,7	71,2
-Special purpose machinery	3,1	88,3	81,3	90,2	91,2	82,7	96,1	92,8
-Household appliances	0,6	96,0	101,2	101,0	101,4	101,5	103,9	101,7
<b>Electrical machinery</b>	<b>2,5</b>	<b>121,2</b>	<b>132,5</b>	<b>125,8</b>	<b>132,7</b>	<b>125,6</b>	<b>127,7</b>	<b>125,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>98,7</b>	<b>108,1</b>	<b>96,6</b>	<b>99,3</b>	<b>102,1</b>	<b>92,7</b>	<b>93,2</b>
-Radio, television and communication apparatus	0,4	102,8	104,4	94,1	89,0	99,5	90,5	84,8
-Professional equipment	0,7	96,1	110,5	98,2	105,9	103,7	94,1	98,5
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>79,7</b>	<b>87,4</b>	<b>97,4</b>	<b>108,8</b>	<b>81,3</b>	<b>97,3</b>	<b>100,3</b>
-Motor vehicles	4,9	66,1	73,2	84,9	107,5	65,6	89,2	95,7
-Bodies for motor vehicles, trailers and semi-trailers	0,5	104,3	119,8	134,9	122,3	115,9	132,3	118,6
-Parts and accessories	4,7	82,4	92,7	101,3	106,6	86,7	99,6	99,1
-Other transport equipment	0,9	124,8	119,3	124,2	120,1	119,2	110,5	120,6
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>94,5</b>	<b>85,3</b>	<b>95,3</b>	<b>92,0</b>	<b>83,9</b>	<b>89,6</b>	<b>91,7</b>
-Furniture	1,3	88,8	90,7	94,3	98,6	86,2	94,1	93,5
-Other manufacturing groups	3,9	96,4	83,6	95,6	89,8	83,2	88,0	91,1
<b>Total</b>	<b>100,0</b>	<b>96,2</b>	<b>98,9</b>	<b>103,7</b>	<b>106,3</b>	<b>96,3</b>	<b>102,6</b>	<b>103,3</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 2009	Actual indices			Seasonally adjusted indices		
			July 2009	1/ July 2010	Percentage change between July 2009 and July 2010	June 2010	July 2010	Percentage change between June and July 2010
<b>Food and beverages</b>	<b>15,4</b>	<b>111,8</b>	<b>114,6</b>	<b>114,1</b>	<b>-0,4</b>	<b>117,2</b>	<b>116,7</b>	<b>-0,4</b>
-Meat, fish, fruit, etc.	1,8	109,3	105,1	115,0	9,4	114,1	117,3	2,8
-Dairy products	0,8	109,7	105,8	105,3	-0,5	109,3	112,0	2,5
-Grain mill products	0,8	108,5	112,4	113,9	1,3	111,6	111,4	-0,2
-Other food products	5,2	110,3	131,4	133,4	1,5	121,0	125,5	3,7
-Beverages	6,8	114,2	105,6	100,3	-5,0	116,6	111,0	-4,8
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>89,5</b>	<b>92,8</b>	<b>85,2</b>	<b>-8,2</b>	<b>86,3</b>	<b>84,8</b>	<b>-1,7</b>
-Textiles	0,7	73,7	71,6	70,7	-1,3	65,1	68,5	5,2
-Other textile products	0,9	78,1	78,9	73,5	-6,8	70,4	74,2	5,4
-Knitted, crocheted articles	0,2	104,4	111,9	97,4	-13,0	102,0	99,7	-2,3
-Wearing apparel	2,1	96,5	99,6	86,3	-13,4	92,2	86,0	-6,7
-Leather and leather products	0,6	83,6	87,4	92,9	6,3	95,2	94,5	-0,7
-Footwear	0,4	107,3	122,8	111,6	-9,1	106,0	107,3	1,2
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>92,0</b>	<b>89,4</b>	<b>102,2</b>	<b>14,3</b>	<b>96,9</b>	<b>102,8</b>	<b>6,1</b>
-Sawmilling and planing of wood	0,7	73,4	81,1	89,4	10,2	80,1	83,8	4,6
-Products of wood	1,3	88,6	85,5	89,9	5,1	82,9	88,3	6,5
-Paper and paper products	3,8	103,6	97,6	114,3	17,1	116,3	116,0	-0,3
-Publishing	1,9	86,8	82,9	78,7	-5,1	82,3	81,3	-1,2
-Printing, recorded media	2,5	84,8	86,0	111,1	29,2	90,1	111,3	23,5
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>105,0</b>	<b>109,9</b>	<b>122,6</b>	<b>11,6</b>	<b>115,9</b>	<b>117,0</b>	<b>0,9</b>
-Coke, petroleum products and nuclear fuel	8,5	95,3	103,3	109,4	5,9	98,8	101,5	2,7
-Basic chemicals	4,5	107,9	111,0	138,9	25,1	138,3	133,5	-3,5
-Other chemical products	5,3	109,6	111,3	121,9	9,5	118,0	119,7	1,4
-Rubber products	1,0	77,3	81,0	97,4	20,2	84,4	90,2	6,9
-Plastic products	2,7	131,2	136,5	147,0	7,7	139,0	142,5	2,5
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>96,5</b>	<b>102,4</b>	<b>99,4</b>	<b>-2,9</b>	<b>97,2</b>	<b>94,8</b>	<b>-2,5</b>
-Glass and glass products	1,0	121,6	118,8	110,5	-7,0	124,2	115,7	-6,8
-Non-metallic mineral products	3,8	90,2	98,3	96,6	-1,7	90,4	89,6	-0,9
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>85,9</b>	<b>87,1</b>	<b>92,8</b>	<b>6,5</b>	<b>90,3</b>	<b>89,1</b>	<b>-1,3</b>
-Basic iron and steel products	7,7	72,0	70,3	79,7	13,4	82,2	77,3	-6,0
-Non-ferrous metal products	3,4	95,4	100,4	101,8	1,4	99,0	99,4	0,4
-Structural metal products	2,0	96,7	103,8	100,0	-3,7	90,4	92,6	2,4
-Other fabricated metal products	3,8	104,5	111,5	119,7	7,4	105,1	108,5	3,2
-General purpose machinery	2,4	73,2	73,0	73,2	0,3	69,7	71,2	2,2
-Special purpose machinery	3,1	88,3	81,3	91,2	12,2	96,1	92,8	-3,4
-Household appliances	0,6	96,0	101,2	101,4	0,2	103,9	101,7	-2,1
<b>Electrical machinery</b>	<b>2,5</b>	<b>121,2</b>	<b>132,5</b>	<b>132,7</b>	<b>0,2</b>	<b>127,7</b>	<b>125,9</b>	<b>-1,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>98,7</b>	<b>108,1</b>	<b>99,3</b>	<b>-8,1</b>	<b>92,7</b>	<b>93,2</b>	<b>0,5</b>
-Radio, television and communication apparatus	0,4	102,8	104,4	89,0	-14,8	90,5	84,8	-6,3
-Professional equipment	0,7	96,1	110,5	105,9	-4,2	94,1	98,5	4,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>79,7</b>	<b>87,4</b>	<b>108,8</b>	<b>24,5</b>	<b>97,3</b>	<b>100,3</b>	<b>3,1</b>
-Motor vehicles	4,9	66,1	73,2	107,5	46,9	89,2	95,7	7,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	104,3	119,8	122,3	2,1	132,3	118,6	-10,4
-Parts and accessories	4,7	82,4	92,7	106,6	15,0	99,6	99,1	-0,5
-Other transport equipment	0,9	124,8	119,3	120,1	0,7	110,5	120,6	9,1
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>94,5</b>	<b>85,3</b>	<b>92,0</b>	<b>7,9</b>	<b>89,6</b>	<b>91,7</b>	<b>2,3</b>
-Furniture	1,3	88,8	90,7	98,6	8,7	94,1	93,5	-0,6
-Other manufacturing groups	3,9	96,4	83,6	89,8	7,4	88,0	91,1	3,5
<b>Total</b>	<b>100,0</b>	<b>96,2</b>	<b>98,9</b>	<b>106,3</b>	<b>7,5</b>	<b>102,6</b>	<b>103,3</b>	<b>0,7</b>

1/ Preliminary.

**Table 5 – Total estimated sales of the manufacturing industry at current prices (R000): 2004 – 2010**

Month	*2004	*2005	*2006	*2007	*2008	*2009	2010
Jan	57 202 991	60 135 729	66 565 731	80 640 636	90 239 804	84 819 210	86 164 210
Feb	66 588 792	69 276 281	73 992 569	92 107 302	106 757 898	96 192 926	96 905 945
Mar	72 956 313	73 946 407	82 145 401	98 801 981	113 091 234	103 814 911	109 176 123
Apr	65 299 123	72 467 798	73 587 881	89 228 035	115 062 249	88 797 741	96 353 590
May	71 344 782	74 688 624	82 677 623	100 135 420	118 293 383	95 133 046	1/ 103 770 879
Jun	71 212 215	76 160 562	86 397 115	97 264 488	122 894 285	96 891 148	1/ 107 839 096
Jul	71 807 169	76 194 692	87 598 741	97 890 141	126 353 845	98 368 052	1/ 107 542 667
Aug	72 447 375	78 628 384	91 244 721	103 420 551	124 293 826	99 412 537	
Sep	75 861 993	81 682 264	93 505 450	99 074 717	123 806 867	103 482 347	
Oct	78 282 566	81 563 865	98 633 681	111 919 590	129 941 379	108 453 282	
Nov	80 649 594	85 235 048	102 032 095	114 471 640	120 894 966	110 596 379	
Dec	66 031 505	72 497 126	81 720 831	90 814 146	94 770 345	94 154 368	
<b>Year</b>	<b>849 684 418</b>	<b>902 476 780</b>	<b>1 020 101 839</b>	<b>1 175 768 647</b>	<b>1 386 400 081</b>	<b>1 180 115 947</b>	

1/ Preliminary.

\* Revised. See note 26 in the explanatory note, page 19.

**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	-6,0	1,6
Feb	3,2	4,0	6,8	24,5	15,9	-9,9	0,7
Mar	8,8	1,4	11,1	20,3	14,5	-8,2	5,2
Apr	4,2	11,0	1,5	21,3	29,0	-22,8	8,5
May	11,0	4,7	10,7	21,1	18,1	-19,6	9,1
Jun	9,2	6,9	13,4	12,6	26,4	-21,2	11,3
Jul	9,1	6,1	15,0	11,7	29,1	-22,1	9,3
Aug	10,2	8,5	16,0	13,3	20,2	-20,0	
Sep	12,4	7,7	14,5	6,0	25,0	-16,4	
Oct	8,4	4,2	20,9	13,5	16,1	-16,5	
Nov	13,8	5,7	19,7	12,2	5,6	-8,5	
Dec	10,3	9,8	12,7	11,1	4,4	-0,6	
<b>Year</b>	<b>8,6</b>	<b>6,2</b>	<b>13,0</b>	<b>15,3</b>	<b>17,9</b>	<b>-14,9</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 (R000): 2004 – 2010**

Month	2004	2005	2006	2007	2008	2009	2010
Jan	67 562 498	71 177 896	78 844 084	95 455 053	106 557 777	100 805 225	102 159 264
Feb	68 998 426	72 042 532	77 157 625	96 414 078	112 344 287	101 139 521	101 826 903
Mar	70 917 581	72 006 338	80 082 184	96 177 856	110 455 805	101 386 875	106 553 497
Apr	69 020 046	76 914 844	78 432 104	95 422 847	123 350 154	95 242 506	103 386 840
May	70 928 207	74 388 474	82 466 941	99 862 869	117 981 408	95 648 674	104 309 757
Jun	70 388 384	75 181 566	85 024 003	95 397 078	120 010 673	94 990 636	105 613 131
Jul	70 925 363	74 948 443	85 783 000	95 581 230	122 441 724	95 736 331	104 443 460
Aug	70 502 106	76 071 355	87 846 230	99 306 433	119 004 198	95 791 592	
Sep	72 099 994	77 355 833	88 409 931	93 703 994	117 262 588	98 344 061	
Oct	71 295 870	74 146 890	89 507 506	101 259 738	117 591 526	98 126 740	
Nov	72 548 743	76 388 308	91 761 072	103 056 065	109 104 983	100 023 719	
Dec	72 454 696	80 235 124	91 547 154	101 943 802	105 728 090	104 465 161	

**Table 8a – Estimated sales of the manufacturing industry at current prices according to manufacturing divisions and major groups (R000)**

Manufacturing divisions and major groups	* Year 2009	Actual values			Seasonally adjusted values		
		* July 2009	1/ June 2010	1/ July 2010	July 2009	June 2010	July 2010
<b>Food and beverages</b>	<b>239 997 619</b>	<b>19 675 260</b>	<b>20 655 956</b>	<b>19 939 763</b>	<b>20 200 065</b>	<b>20 744 883</b>	<b>20 461 023</b>
-Meat, fish, fruit, etc.	64 578 008	5 202 553	5 674 516	5 655 171	5 231 158	5 583 040	5 687 680
-Dairy products	20 927 661	1 693 232	1 678 634	1 848 952	1 765 095	1 807 577	1 918 748
-Grain mill products	44 238 183	3 810 629	3 600 612	3 496 362	3 673 482	3 484 008	3 365 487
-Other food products	53 020 863	4 580 504	4 921 023	4 650 866	4 651 824	4 700 583	4 724 433
-Beverages	57 232 904	4 388 342	4 781 171	4 288 412	4 878 505	5 169 675	4 764 675
<b>Textiles, clothing, leather and footwear</b>	<b>39 358 324</b>	<b>3 364 708</b>	<b>3 152 538</b>	<b>3 108 598</b>	<b>3 372 966</b>	<b>3 170 311</b>	<b>3 117 967</b>
-Textiles	6 020 147	521 737	497 480	454 023	504 392	463 257	438 158
-Other textile products	9 944 381	853 690	779 637	791 097	853 432	775 210	791 051
-Knitted, crocheted articles	1 820 905	159 261	157 145	143 367	167 193	149 113	150 333
-Wearing apparel	14 398 708	1 213 434	1 081 320	1 070 582	1 226 504	1 117 844	1 083 428
-Leather and leather products	3 569 498	303 845	353 726	330 442	311 109	351 024	338 200
-Footwear	3 604 685	312 741	283 230	319 087	310 337	313 863	316 797
<b>Wood and wood products, paper, publishing and printing</b>	<b>102 039 074</b>	<b>8 270 259</b>	<b>9 294 210</b>	<b>9 477 012</b>	<b>8 284 088</b>	<b>9 052 317</b>	<b>9 510 246</b>
-Sawmilling and planing of wood	6 411 740	587 244	564 809	619 332	550 986	563 040	578 608
-Products of wood	16 025 375	1 301 155	1 301 151	1 299 469	1 280 414	1 227 347	1 282 536
-Paper and paper products	46 059 169	3 627 340	4 661 593	4 316 706	3 648 798	4 368 891	4 359 763
-Publishing	14 886 400	1 187 822	1 203 279	1 152 219	1 224 396	1 210 082	1 190 882
-Printing, recorded media	18 656 390	1 566 698	1 563 378	2 089 286	1 579 494	1 682 958	2 098 456
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>262 540 179</b>	<b>22 118 244</b>	<b>24 856 129</b>	<b>25 085 171</b>	<b>20 974 681</b>	<b>24 171 687</b>	<b>23 692 241</b>
-Coke, petroleum products and nuclear fuel	89 965 147	8 041 648	9 338 000	9 171 811	7 215 139	8 637 372	8 184 192
-Basic chemicals	56 237 245	4 193 406	5 222 931	5 302 260	4 057 200	5 123 229	5 117 054
-Other chemical products	66 512 727	5 613 203	5 828 899	5 949 676	5 542 494	5 920 366	5 856 267
-Rubber products	11 347 042	995 612	1 011 546	1 088 963	936 259	990 712	1 021 698
-Plastic products	38 478 018	3 274 375	3 454 753	3 572 461	3 223 590	3 500 008	3 513 030
<b>Glass and non-metallic mineral products</b>	<b>40 112 675</b>	<b>3 570 694</b>	<b>3 494 863</b>	<b>3 649 603</b>	<b>3 361 808</b>	<b>3 439 938</b>	<b>3 436 915</b>
-Glass and glass products	6 691 796	516 841	572 233	527 954	546 582	569 082	560 610
-Non-metallic mineral products	33 420 879	3 053 853	2 922 630	3 121 649	2 815 226	2 870 856	2 876 305
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>249 364 417</b>	<b>20 955 578</b>	<b>23 740 309</b>	<b>22 664 264</b>	<b>19 924 137</b>	<b>22 806 311</b>	<b>21 506 049</b>
-Basic iron and steel products	77 590 894	6 378 150	9 148 024	7 363 509	5 998 050	8 291 352	6 918 101
-Non-ferrous metal products	42 550 609	3 470 437	3 824 052	4 037 433	3 345 765	3 764 635	3 888 968
-Structural metal products	23 111 172	2 064 074	1 858 845	1 966 272	1 910 398	1 779 186	1 812 881
-Other fabricated metal products	40 036 447	3 668 203	3 421 154	3 726 495	3 308 661	3 327 973	3 339 831
-General purpose machinery	28 209 259	2 293 888	2 424 837	2 348 189	2 258 425	2 396 852	2 309 180
-Special purpose machinery	28 423 653	2 236 861	2 245 382	2 396 951	2 245 839	2 399 643	2 401 932
-Household appliances	9 442 383	843 965	818 015	825 415	857 000	846 670	835 156
<b>Electrical machinery</b>	<b>35 326 612</b>	<b>3 089 724</b>	<b>3 210 731</b>	<b>3 377 844</b>	<b>2 913 123</b>	<b>3 177 680</b>	<b>3 181 252</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>13 518 475</b>	<b>1 213 229</b>	<b>1 062 248</b>	<b>1 148 742</b>	<b>1 199 916</b>	<b>1 007 099</b>	<b>1 133 069</b>
-Radio, television and communication apparatus	6 041 590	507 175	452 037	428 944	502 172	431 367	423 698
-Professional equipment	7 476 885	706 054	610 211	719 798	697 744	575 732	709 372
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>142 178 315</b>	<b>11 531 366</b>	<b>13 261 040</b>	<b>14 375 149</b>	<b>11 051 310</b>	<b>13 098 841</b>	<b>13 812 694</b>
-Motor vehicles	69 665 442	5 333 925	6 481 206	7 155 059	5 123 198	6 615 549	6 928 361
-Bodies for motor vehicles, trailers and semi-trailers	6 889 529	684 170	718 126	676 184	640 660	711 816	634 021
-Parts and accessories	48 904 780	4 186 690	4 666 133	5 128 968	3 984 005	4 535 883	4 855 059
-Other transport equipment	16 718 564	1 326 581	1 395 575	1 414 938	1 303 447	1 235 593	1 395 253
<b>Furniture and other manufacturing division</b>	<b>55 680 257</b>	<b>4 578 990</b>	<b>5 111 072</b>	<b>4 716 521</b>	<b>4 454 235</b>	<b>4 944 062</b>	<b>4 592 003</b>
-Furniture	11 262 810	963 770	1 005 198	1 048 255	921 116	1 009 809	1 000 743
-Other manufacturing groups	44 417 447	3 615 220	4 105 874	3 668 266	3 533 120	3 934 253	3 591 260
<b>Total</b>	<b>1 180 115 947</b>	<b>98 368 052</b>	<b>107 839 096</b>	<b>107 542 667</b>	<b>95 736 331</b>	<b>105 613 131</b>	<b>104 443 460</b>

1/ Preliminary.  
\* Revised.

**Table 8b – Estimated sales of the manufacturing industry at current prices according to manufacturing divisions and major groups (R000) (concluded)**

Manufacturing divisions and major groups	* Year 2009	Actual values			Seasonally adjusted values		
		* July 2009	1/ July 2010	Percentage change between July 2009 and July 2010	June 2010	July 2010	Percentage change between June and July 2010
<b>Food and beverages</b>	<b>239 997 619</b>	<b>19 675 260</b>	<b>19 939 763</b>	<b>1,3</b>	<b>20 744 883</b>	<b>20 461 023</b>	<b>-1,4</b>
-Meat, fish, fruit, etc.	64 578 008	5 202 553	5 655 171	8,7	5 583 040	5 687 680	1,9
-Dairy products	20 927 661	1 693 232	1 848 952	9,2	1 807 577	1 918 748	6,2
-Grain mill products	44 238 183	3 810 629	3 496 362	-8,2	3 484 008	3 365 487	-3,4
-Other food products	53 020 863	4 580 504	4 650 866	1,5	4 700 583	4 724 433	0,5
-Beverages	57 232 904	4 388 342	4 288 412	-2,3	5 169 675	4 764 675	-7,8
<b>Textiles, clothing, leather and footwear</b>	<b>39 358 324</b>	<b>3 364 708</b>	<b>3 108 598</b>	<b>-7,6</b>	<b>3 170 311</b>	<b>3 117 967</b>	<b>-1,7</b>
-Textiles	6 020 147	521 737	454 023	-13,0	463 257	438 158	-5,4
-Other textile products	9 944 381	853 690	791 097	-7,3	775 210	791 051	2,0
-Knitted, crocheted articles	1 820 905	159 261	143 367	-10,0	149 113	150 333	0,8
-Wearing apparel	14 398 708	1 213 434	1 070 582	-11,8	1 117 844	1 083 428	-3,1
-Leather and leather products	3 569 498	303 845	330 442	8,8	351 024	338 200	-3,7
-Footwear	3 604 685	312 741	319 087	2,0	313 863	316 797	0,9
<b>Wood and wood products, paper, publishing and printing</b>	<b>102 039 074</b>	<b>8 270 259</b>	<b>9 477 012</b>	<b>14,6</b>	<b>9 052 317</b>	<b>9 510 246</b>	<b>5,1</b>
-Sawmilling and planing of wood	6 411 740	587 244	619 332	5,5	563 040	578 608	2,8
-Products of wood	16 025 375	1 301 155	1 299 469	-0,1	1 227 347	1 282 536	4,5
-Paper and paper products	46 059 169	3 627 340	4 316 706	19,0	4 368 891	4 359 763	-0,2
-Publishing	14 886 400	1 187 822	1 152 219	-3,0	1 210 082	1 190 882	-1,6
-Printing, recorded media	18 656 390	1 566 698	2 089 286	33,4	1 682 958	2 098 456	24,7
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>262 540 179</b>	<b>22 118 244</b>	<b>25 085 171</b>	<b>13,4</b>	<b>24 171 687</b>	<b>23 692 241</b>	<b>-2,0</b>
-Coke, petroleum products and nuclear fuel	89 965 147	8 041 648	9 171 811	14,1	8 637 372	8 184 192	-5,2
-Basic chemicals	56 237 245	4 193 406	5 302 260	26,4	5 123 229	5 117 054	-0,1
-Other chemical products	66 512 727	5 613 203	5 949 676	6,0	5 920 366	5 856 267	-1,1
-Rubber products	11 347 042	995 612	1 088 963	9,4	990 712	1 021 698	3,1
-Plastic products	38 478 018	3 274 375	3 572 461	9,1	3 500 008	3 513 030	0,4
<b>Glass and non-metallic mineral products</b>	<b>40 112 675</b>	<b>3 570 694</b>	<b>3 649 603</b>	<b>2,2</b>	<b>3 439 938</b>	<b>3 436 915</b>	<b>-0,1</b>
-Glass and glass products	6 691 796	516 841	527 954	2,2	569 082	560 610	-1,5
-Non-metallic mineral products	33 420 879	3 053 853	3 121 649	2,2	2 870 856	2 876 305	0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>249 364 417</b>	<b>20 955 578</b>	<b>22 664 264</b>	<b>8,2</b>	<b>22 806 311</b>	<b>21 506 049</b>	<b>-5,7</b>
-Basic iron and steel products	77 590 894	6 378 150	7 363 509	15,4	8 291 352	6 918 101	-16,6
-Non-ferrous metal products	42 550 609	3 470 437	4 037 433	16,3	3 764 635	3 888 968	3,3
-Structural metal products	23 111 172	2 064 074	1 966 272	-4,7	1 779 186	1 812 881	1,9
-Other fabricated metal products	40 036 447	3 668 203	3 726 495	1,6	3 327 973	3 339 831	0,4
-General purpose machinery	28 209 259	2 293 888	2 348 189	2,4	2 396 852	2 309 180	-3,7
-Special purpose machinery	28 423 653	2 236 861	2 396 951	7,2	2 399 643	2 401 932	0,1
-Household appliances	9 442 383	843 965	825 415	-2,2	846 670	835 156	-1,4
-Electrical machinery	35 326 612	3 089 724	3 377 844	9,3	3 177 680	3 181 252	0,1
<b>Radio, television and communication apparatus and professional equipment</b>	<b>13 518 475</b>	<b>1 213 229</b>	<b>1 148 742</b>	<b>-5,3</b>	<b>1 007 099</b>	<b>1 133 069</b>	<b>12,5</b>
-Radio, television and communication apparatus	6 041 590	507 175	428 944	-15,4	431 367	423 698	-1,8
-Professional equipment	7 476 885	706 054	719 798	1,9	575 732	709 372	23,2
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>142 178 315</b>	<b>11 531 366</b>	<b>14 375 149</b>	<b>24,7</b>	<b>13 098 841</b>	<b>13 812 694</b>	<b>5,4</b>
-Motor vehicles	69 665 442	5 333 925	7 155 059	34,1	6 615 549	6 928 361	4,7
-Bodies for motor vehicles, trailers and semi-trailers	6 889 529	684 170	676 184	-1,2	711 816	634 021	-10,9
-Parts and accessories	48 904 780	4 186 690	5 128 968	22,5	4 535 883	4 855 059	7,0
-Other transport equipment	16 718 564	1 326 581	1 414 938	6,7	1 235 593	1 395 253	12,9
<b>Furniture and other manufacturing division</b>	<b>55 680 257</b>	<b>4 578 990</b>	<b>4 716 521</b>	<b>3,0</b>	<b>4 944 062</b>	<b>4 592 003</b>	<b>-7,1</b>
-Furniture	11 262 810	963 770	1 048 255	8,8	1 009 809	1 000 743	-0,9
-Other manufacturing groups	44 417 447	3 615 220	3 668 266	1,5	3 934 253	3 591 260	-8,7
<b>Total</b>	<b>1 180 115 947</b>	<b>98 368 052</b>	<b>107 542 667</b>	<b>9,3</b>	<b>105 613 131</b>	<b>104 443 460</b>	<b>-1,1</b>

1/ Preliminary.  
\* Revised.

**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	Production indices (base 2005=100)			Value of sales (R000)		
		May to July 2009	May to July 2010	Annual percentage change between May to July 2009 and May to July 2010	May to July 2009	May to July 2010	Annual percentage change between May to July 2009 and May to July 2010
<b>Food and beverages</b>	<b>15,4</b>	<b>110,6</b>	<b>115,2</b>	<b>4,2</b>	<b>57 990 429</b>	<b>59 938 476</b>	<b>3,4</b>
-Meat, fish, fruit, etc.	1,8	107,2	115,0	7,3	15 945 520	16 826 000	5,5
-Dairy products	0,8	99,8	103,0	3,2	4 838 123	5 203 746	7,6
-Grain mill products	0,8	110,0	113,4	3,1	11 266 069	10 484 254	-6,9
-Other food products	5,2	122,6	130,2	6,2	13 108 135	13 987 044	6,7
-Beverages	6,8	103,6	105,5	1,8	12 832 582	13 437 432	4,7
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>90,7</b>	<b>85,6</b>	<b>-5,6</b>	<b>10 055 971</b>	<b>9 529 769</b>	<b>-5,2</b>
-Textiles	0,7	77,8	70,5	-9,4	1 630 425	1 437 397	-11,8
-Other textile products	0,9	77,6	72,9	-6,1	2 538 023	2 416 665	-4,8
-Knitted, crocheted articles	0,2	114,0	110,4	-3,2	501 476	491 474	-2,0
-Wearing apparel	2,1	96,8	86,7	-10,4	3 618 074	3 222 565	-10,9
-Leather and leather products	0,6	84,7	96,6	14,0	892 473	1 064 700	19,3
-Footwear	0,4	108,2	106,0	-2,0	875 500	896 968	2,5
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>91,3</b>	<b>98,6</b>	<b>8,0</b>	<b>25 648 875</b>	<b>27 719 399</b>	<b>8,1</b>
-Sawmilling and planing of wood	0,7	73,3	84,8	15,7	1 627 132	1 773 865	9,0
-Products of wood	1,3	88,3	87,8	-0,6	4 073 958	3 889 608	-4,5
-Paper and paper products	3,8	102,7	116,2	13,1	11 608 217	13 151 692	13,3
-Publishing	1,9	86,9	81,2	-6,6	3 742 648	3 601 251	-3,8
-Printing, recorded media	2,5	83,6	94,1	12,6	4 596 920	5 302 983	15,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>104,8</b>	<b>117,1</b>	<b>11,7</b>	<b>64 502 619</b>	<b>72 886 967</b>	<b>13,0</b>
-Coke, petroleum products and nuclear fuel	8,5	101,1	102,7	1,6	22 800 952	26 942 261	18,2
-Basic chemicals	4,5	99,3	134,4	35,3	13 015 419	14 982 600	15,1
-Other chemical products	5,3	107,3	117,4	9,4	16 324 129	17 389 956	6,5
-Rubber products	1,0	79,0	88,6	12,2	2 898 653	3 101 530	7,0
-Plastic products	2,7	130,0	142,8	9,8	9 463 466	10 470 620	10,6
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>97,7</b>	<b>97,8</b>	<b>0,1</b>	<b>10 151 793</b>	<b>10 509 943</b>	<b>3,5</b>
-Glass and glass products	1,0	117,0	115,5	-1,3	1 556 927	1 613 874	3,7
-Non-metallic mineral products	3,8	92,9	93,4	0,5	8 594 866	8 896 069	3,5
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>85,0</b>	<b>91,9</b>	<b>8,1</b>	<b>61 063 084</b>	<b>68 952 527</b>	<b>12,9</b>
-Basic iron and steel products	7,7	70,8	85,0	20,1	19 111 265	24 779 900	29,7
-Non-ferrous metal products	3,4	98,3	99,2	0,9	10 222 526	11 801 351	15,4
-Structural metal products	2,0	104,1	97,6	-6,2	5 988 494	5 714 762	-4,6
-Other fabricated metal products	3,8	105,8	112,0	5,9	10 321 579	10 437 847	1,1
-General purpose machinery	2,4	70,9	69,8	-1,6	6 847 817	6 970 000	1,8
-Special purpose machinery	3,1	76,0	88,7	16,7	6 183 222	6 788 489	9,8
-Household appliances	0,6	97,1	100,3	3,3	2 388 181	2 460 178	3,0
<b>Electrical machinery</b>	<b>2,5</b>	<b>119,5</b>	<b>126,6</b>	<b>5,9</b>	<b>8 850 942</b>	<b>9 851 571</b>	<b>11,3</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>105,5</b>	<b>96,5</b>	<b>-8,5</b>	<b>3 554 428</b>	<b>3 284 172</b>	<b>-7,6</b>
-Radio, television and communication apparatus	0,4	102,8	89,7	-12,7	1 514 465	1 287 805	-15,0
-Professional equipment	0,7	107,3	100,8	-6,1	2 039 963	1 996 367	-2,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>81,2</b>	<b>102,7</b>	<b>26,5</b>	<b>35 062 077</b>	<b>42 024 006</b>	<b>19,9</b>
-Motor vehicles	4,9	67,5	94,1	39,4	16 727 080	20 968 782	25,4
-Bodies for motor vehicles, trailers and semi-trailers	0,5	103,3	126,9	22,8	1 767 159	2 033 024	15,0
-Parts and accessories	4,7	83,3	105,4	26,5	12 202 484	14 851 574	21,7
-Other transport equipment	0,9	131,2	121,3	-7,5	4 365 354	4 170 626	-4,5
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>93,7</b>	<b>94,0</b>	<b>0,3</b>	<b>13 512 028</b>	<b>14 455 812</b>	<b>7,0</b>
-Furniture	1,3	89,6	95,2	6,3	2 846 520	3 049 990	7,1
-Other manufacturing groups	3,9	95,2	93,6	-1,7	10 665 508	11 405 822	6,9
<b>Total</b>	<b>100,0</b>	<b>95,9</b>	<b>103,9</b>	<b>8,3</b>	<b>290 392 246</b>	<b>319 152 642</b>	<b>9,9</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	Indices (base 2005=100)				Value of sales (R million)			
		Jan. to Jul. 2009	Jan. to Jul. 2010	Annual percentage change between 2009 and 2010	Contribution (percentage points)	Jan. to Jul. 2009	Jan. to Jul. 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>105,0</b>	<b>108,4</b>	<b>3,2</b>	<b>0,6</b>	<b>132 738</b>	<b>135 497</b>	<b>2,1</b>	<b>2 759</b>
-Meat, fish, fruit, etc.	1,8	105,1	111,1	5,7	0,1	36 035	37 455	3,9	1 420
-Dairy products	0,8	103,6	104,0	0,4	0,0	11 579	12 001	3,6	422
-Grain mill products	0,8	106,3	108,0	1,6	0,0	25 761	23 640	-8,2	-2 121
-Other food products	5,2	103,9	108,0	3,9	0,2	29 293	30 245	3,2	952
-Beverages	6,8	105,7	108,6	2,7	0,2	30 070	32 156	6,9	2 086
<b>Textiles, clothing, leather and footwear</b>	<b>4,9</b>	<b>88,8</b>	<b>83,0</b>	<b>-6,5</b>	<b>-0,3</b>	<b>22 745</b>	<b>21 497</b>	<b>-5,5</b>	<b>-1 248</b>
-Textiles	0,7	79,0	68,4	-13,4	-0,1	3 708	3 239	-12,6	-469
-Other textile products	0,9	76,9	72,8	-5,3	0,0	5 765	5 525	-4,2	-240
-Knitted, crocheted articles	0,2	109,8	110,6	0,7	0,0	1 120	1 121	0,1	1
-Wearing apparel	2,1	95,9	84,2	-12,2	-0,3	8 311	7 297	-12,2	-1 014
-Leather and leather products	0,6	80,4	91,2	13,4	0,1	1 985	2 358	18,8	373
-Footwear	0,4	99,1	99,9	0,8	0,0	1 855	1 956	5,4	101
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,2</b>	<b>91,0</b>	<b>92,7</b>	<b>1,9</b>	<b>0,2</b>	<b>58 485</b>	<b>60 441</b>	<b>3,3</b>	<b>1 956</b>
-Sawmilling and planing of wood	0,7	73,4	82,8	12,8	0,1	3 637	4 057	11,5	420
-Products of wood	1,3	87,8	83,5	-4,9	-0,1	9 266	8 676	-6,4	-590
-Paper and paper products	3,8	102,4	109,3	6,7	0,3	26 497	28 299	6,8	1 802
-Publishing	1,9	88,5	79,0	-10,7	-0,2	8 713	8 182	-6,1	-531
-Printing, recorded media	2,5	81,8	85,1	4,0	0,1	10 372	11 226	8,2	854
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>22,1</b>	<b>102,4</b>	<b>110,1</b>	<b>7,5</b>	<b>1,8</b>	<b>146 591</b>	<b>158 356</b>	<b>8,0</b>	<b>11 765</b>
-Coke, petroleum products and nuclear fuel	8,5	95,9	93,7	-2,3	-0,2	49 131	55 822	13,6	6 691
-Basic chemicals	4,5	102,7	123,5	20,3	1,0	32 362	33 129	2,4	767
-Other chemical products	5,3	106,6	114,4	7,3	0,4	37 362	38 734	3,7	1 372
-Rubber products	1,0	78,1	85,6	9,6	0,1	6 598	7 018	6,4	420
-Plastic products	2,7	122,5	140,0	14,3	0,5	21 138	23 652	11,9	2 514
<b>Glass and non-metallic mineral products</b>	<b>4,8</b>	<b>94,5</b>	<b>90,6</b>	<b>-4,1</b>	<b>-0,2</b>	<b>22 605</b>	<b>22 726</b>	<b>0,5</b>	<b>121</b>
-Glass and glass products	1,0	115,0	112,0	-2,6	0,0	3 525	3 568	1,2	43
-Non-metallic mineral products	3,8	89,4	85,2	-4,7	-0,2	19 080	19 158	0,4	78
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>22,9</b>	<b>82,1</b>	<b>90,1</b>	<b>9,7</b>	<b>2,0</b>	<b>141 585</b>	<b>154 586</b>	<b>9,2</b>	<b>13 001</b>
-Basic iron and steel products	7,7	61,5	85,0	38,2	2,0	42 426	54 596	28,7	12 170
-Non-ferrous metal products	3,4	94,2	97,5	3,5	0,1	24 371	26 427	8,4	2 056
-Structural metal products	2,0	99,0	90,4	-8,7	-0,2	13 839	12 449	-10,0	-1 390
-Other fabricated metal products	3,8	106,5	104,6	-1,8	-0,1	23 329	23 248	-0,3	-81
-General purpose machinery	2,4	71,1	67,6	-4,9	-0,1	15 938	15 467	-3,0	-471
-Special purpose machinery	3,1	85,0	92,7	9,1	0,3	16 151	16 896	4,6	745
-Household appliances	0,6	97,8	96,5	-1,3	0,0	5 531	5 504	-0,5	-27
<b>Electrical machinery</b>	<b>2,5</b>	<b>120,2</b>	<b>124,2</b>	<b>3,3</b>	<b>0,1</b>	<b>20 483</b>	<b>21 563</b>	<b>5,3</b>	<b>1 080</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,1</b>	<b>96,4</b>	<b>90,8</b>	<b>-5,8</b>	<b>-0,1</b>	<b>7 716</b>	<b>7 349</b>	<b>-4,8</b>	<b>-367</b>
-Radio, television and communication apparatus	0,4	99,5	88,0	-11,6	0,0	3 377	3 040	-10,0	-337
-Professional equipment	0,7	94,4	92,6	-1,9	0,0	4 339	4 308	-0,7	-31
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>10,9</b>	<b>74,8</b>	<b>95,8</b>	<b>28,1</b>	<b>2,5</b>	<b>80 372</b>	<b>93 496</b>	<b>16,3</b>	<b>13 124</b>
-Motor vehicles	4,9	64,4	84,9	31,8	1,1	39 298	47 214	20,1	7 916
-Bodies for motor vehicles, trailers and semi-trailers	0,5	101,3	115,8	14,3	0,1	3 932	4 242	7,9	310
-Parts and accessories	4,7	72,9	101,7	39,5	1,5	27 392	33 074	20,7	5 682
-Other transport equipment	0,9	124,7	113,1	-9,3	-0,1	9 750	8 966	-8,0	-784
<b>Furniture and other manufacturing division</b>	<b>5,2</b>	<b>90,0</b>	<b>91,3</b>	<b>1,4</b>	<b>0,1</b>	<b>30 698</b>	<b>32 242</b>	<b>5,0</b>	<b>1 544</b>
-Furniture	1,3	83,6	85,8	2,6	0,0	6 135	6 396	4,3	261
-Other manufacturing groups	3,9	92,2	93,1	1,0	0,0	24 562	25 846	5,2	1 284
<b>Total</b>	<b>100,0</b>	<b>92,7</b>	<b>98,8</b>	<b>6,6</b>	<b>6,6</b>	<b>664 017</b>	<b>707 753</b>	<b>6,6</b>	<b>43 736</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 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.
- Response rate**
- 9 The preliminary response rate for the survey on manufacturing production and sales for July 2010 was 90,1%. The response rate for the new sample for June 2010 was 92,2%.
- Statistical unit**
- 10 The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

**Survey methodology and design**

- 11 The survey is conducted monthly. Questionnaires are sent to a sample of 3 027 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 producer 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 F 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
- Changes in this publication**    26 The results published today are based on a new sample drawn in April 2010. The periodic introduction of a new sample is part of Stats SA's strategic approach in improving the basis from which surveys are conducted.
- The new sample was conducted in parallel with the previous sample for April to June 2010. Comparison of estimates from the new and previous samples shows a 1,4% higher level of sales from the new sample.

**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 F – 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 - 2010</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>



## General information

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English.

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