

Statistical release

P3041.2

Manufacturing: Production and sales (Preliminary)

December 2011

**Embargoed until:
9 February 2012
13:00**

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Forthcoming issue:

January 2012

Expected release date

8 March 2012

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Key figures for December 2011

Table A – Manufacturing production and sales

| Estimates | December 2011 | % change between December 2010 and December 2011 | % change between October to December 2010 and October to December 2011 | % change between January to December 2010 and January to December 2011 |
|--|---------------|--|--|--|
| Physical volume of manufacturing production index (base: 2005=100) | 93,1 | 2,4 | 2,1 | 2,5 |
| Total estimated sales of manufactured products (R million) | 111 893 | 12,3 | 10,6 | 9,3 |

| Seasonally adjusted estimates | December 2011 | % change between November and December 2011 | % change between July to September 2011 and October to December 2011 |
|--|---------------|---|--|
| Physical volume of manufacturing production index (base: 2005=100) | 103,6 | -1,3 | 1,0 |
| Total value of sales of manufactured products (R million) | 122 619 | 1,8 | 4,6 |

Manufacturing production for 2011 reflected an increase of 2,5% compared with 2010. Higher production for the year 2011 was reported by nine of the ten manufacturing divisions.

The annual increase of 2,5% was mainly due to higher production in the following divisions:

- the motor vehicles, parts and accessories and other transport equipment division (7,7% and contributing 0,8 of a percentage point);
- the basic iron and steel, non-ferrous metal products, metal products and machinery division (2,8% and contributing 0,6 of a percentage point);
- the petroleum, chemical products, rubber and plastic products division (1,4% and contributing 0,4 of a percentage point); and
- the food and beverages division (2,3% and contributing 0,4 of a percentage point) (see Table 10).

Manufacturing production for December 2011 increased by 2,4% compared with December 2010.

The 2,4% year-on-year increase in manufacturing production for December 2011 was due to higher production in the following divisions:

- the basic iron and steel, non-ferrous metal products, metal products and machinery division (7,9% and contributing 1,5 percentage points);
- the petroleum, chemical products, rubber and plastic products division (5,3% and contributing 1,3 percentage points);
- the wood and wood products, paper, publishing and printing division (10,0% and contributing 1,0 percentage point);
- the radio, television and communication apparatus and professional equipment division (10,0% and contributing 0,1 of a percentage point); and
- the food and beverages division (0,4% and contributing 0,1 of a percentage point) (see Table 4b).

Seasonally adjusted manufacturing production for the fourth quarter of 2011 increased by 1,0% compared with the third quarter of 2011. Six of the ten manufacturing divisions reported positive growth rates over this period.

The increase was driven mainly by higher production recorded for:

- the basic iron and steel, non-ferrous metal products, metal products and machinery division (8,0% and contributing 1,5 percentage points); and
- the wood and wood products, paper, publishing and printing division (8,3% and contributing 0,8 of a percentage point) (see Table B).

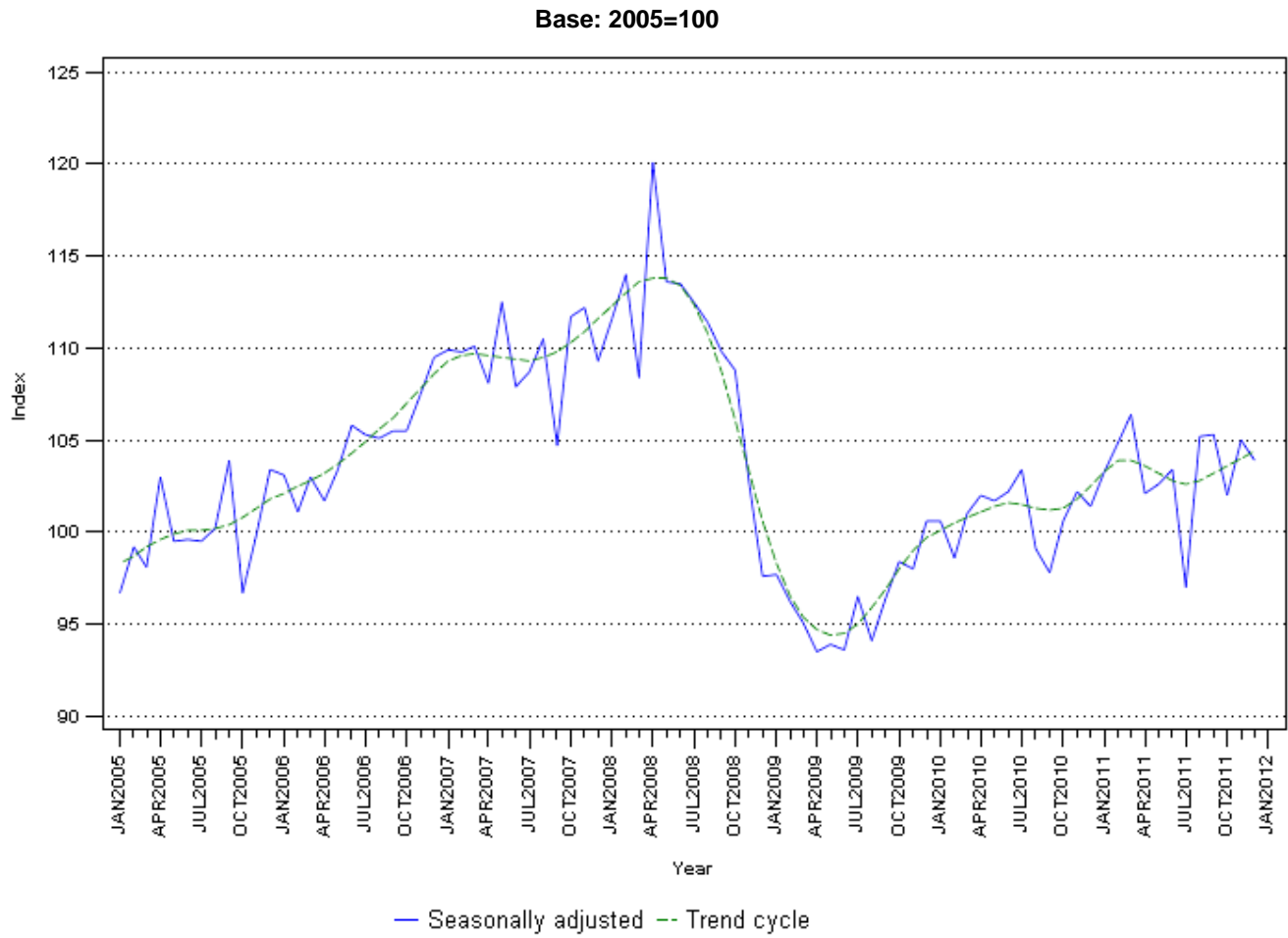
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2005=100

| Manufacturing divisions and major groups | Weights 2005 | Average seasonally adjusted production index for July to September 2011 | Average seasonally adjusted production index for October 2011 to December 2011 | Quarterly % change of October to December 2011 compared with the preceding three months | Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/ |
|---|--------------|---|--|---|--|
| Food and beverages | 15,4 | 121,4 | 122,2 | 0,7 | 0,1 |
| -Meat, fish, fruit, etc. | 1,8 | 124,3 | 122,7 | -1,3 | 0,0 |
| -Dairy products | 0,8 | 118,8 | 121,7 | 2,4 | 0,0 |
| -Grain mill products | 0,8 | 110,6 | 112,8 | 2,0 | 0,0 |
| -Other food products | 5,2 | 117,7 | 116,7 | -0,8 | -0,1 |
| -Beverages | 6,8 | 125,2 | 127,4 | 1,8 | 0,1 |
| Textiles, clothing, leather and footwear | 4,9 | 83,4 | 81,4 | -2,4 | -0,1 |
| -Textiles | 1,6 | 68,7 | 67,5 | -1,7 | 0,0 |
| -Wearing apparel | 2,3 | 85,6 | 82,4 | -3,7 | -0,1 |
| -Leather and leather products | 0,6 | 94,4 | 97,9 | 3,7 | 0,0 |
| -Footwear | 0,4 | 110,8 | 103,4 | -6,7 | 0,0 |
| Wood and wood products, paper, publishing and printing | 10,2 | 94,8 | 102,7 | 8,3 | 0,8 |
| -Wood and products of wood | 2,0 | 87,0 | 90,6 | 4,1 | 0,1 |
| -Paper and paper products | 3,8 | 108,0 | 116,7 | 8,1 | 0,3 |
| -Publishing and printing | 4,3 | 86,6 | 96,0 | 10,9 | 0,4 |
| Petroleum, chemical products, rubber and plastic products | 22,1 | 111,1 | 111,2 | 0,1 | 0,0 |
| -Coke, petroleum products and nuclear fuel | 8,5 | 86,1 | 76,6 | -11,0 | -0,8 |
| -Basic chemicals | 4,5 | 128,4 | 134,5 | 4,8 | 0,3 |
| -Other chemical products | 5,3 | 120,2 | 127,7 | 6,2 | 0,4 |
| -Rubber products | 1,0 | 100,1 | 98,5 | -1,6 | 0,0 |
| -Plastic products | 2,7 | 146,6 | 153,0 | 4,4 | 0,2 |
| Glass and non-metallic mineral products | 4,8 | 97,9 | 98,5 | 0,6 | 0,0 |
| -Glass and glass products | 1,0 | 118,5 | 109,0 | -8,0 | -0,1 |
| -Non-metallic mineral products | 3,8 | 92,7 | 95,9 | 3,5 | 0,1 |
| Basic iron and steel, non-ferrous metal products, metal products and machinery | 22,9 | 86,7 | 93,6 | 8,0 | 1,5 |
| -Basic iron and steel products | 7,7 | 65,6 | 78,6 | 19,8 | 1,0 |
| -Basic precious, non-ferrous metal products | 3,4 | 110,3 | 108,4 | -1,7 | -0,1 |
| -Fabricated metal products | 5,7 | 101,6 | 107,1 | 5,4 | 0,3 |
| -Machinery and equipment | 6,1 | 85,7 | 91,2 | 6,4 | 0,3 |
| Electrical machinery | 2,5 | 127,6 | 132,7 | 4,0 | 0,1 |
| Radio, television and communication apparatus and professional equipment | 1,1 | 110,9 | 108,3 | -2,3 | 0,0 |
| -Radio, television and communication apparatus | 0,4 | 118,2 | 102,2 | -13,5 | -0,1 |
| -Professional equipment | 0,7 | 106,2 | 112,2 | 5,6 | 0,0 |
| Motor vehicles, parts and accessories and other transport equipment | 10,9 | 106,7 | 97,1 | -9,0 | -1,0 |
| -Motor vehicles | 4,9 | 103,1 | 85,7 | -16,9 | -0,8 |
| -Bodies for motor vehicles, trailers and semi-trailers | 0,5 | 124,4 | 129,6 | 4,2 | 0,0 |
| -Parts and accessories | 4,7 | 104,3 | 104,3 | 0,0 | 0,0 |
| -Other transport equipment | 0,9 | 128,5 | 104,2 | -18,9 | -0,2 |
| Furniture and other manufacturing division | 5,2 | 93,7 | 85,3 | -9,0 | -0,4 |
| -Furniture | 1,3 | 92,7 | 93,6 | 1,0 | 0,0 |
| -Other manufacturing groups | 3,9 | 94,0 | 82,5 | -12,2 | -0,4 |
| Total | 100,0 | 102,5 | 103,5 | 1,0 | 1,0 |

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: 2005 – 2011



Seasonally adjusted sales of manufactured products (at current prices) for the fourth quarter of 2011 increased by 4,6% (R15 915 million) compared with the third quarter of 2011. Seven of the ten manufacturing divisions reported positive growth rates over this period (see Table C).

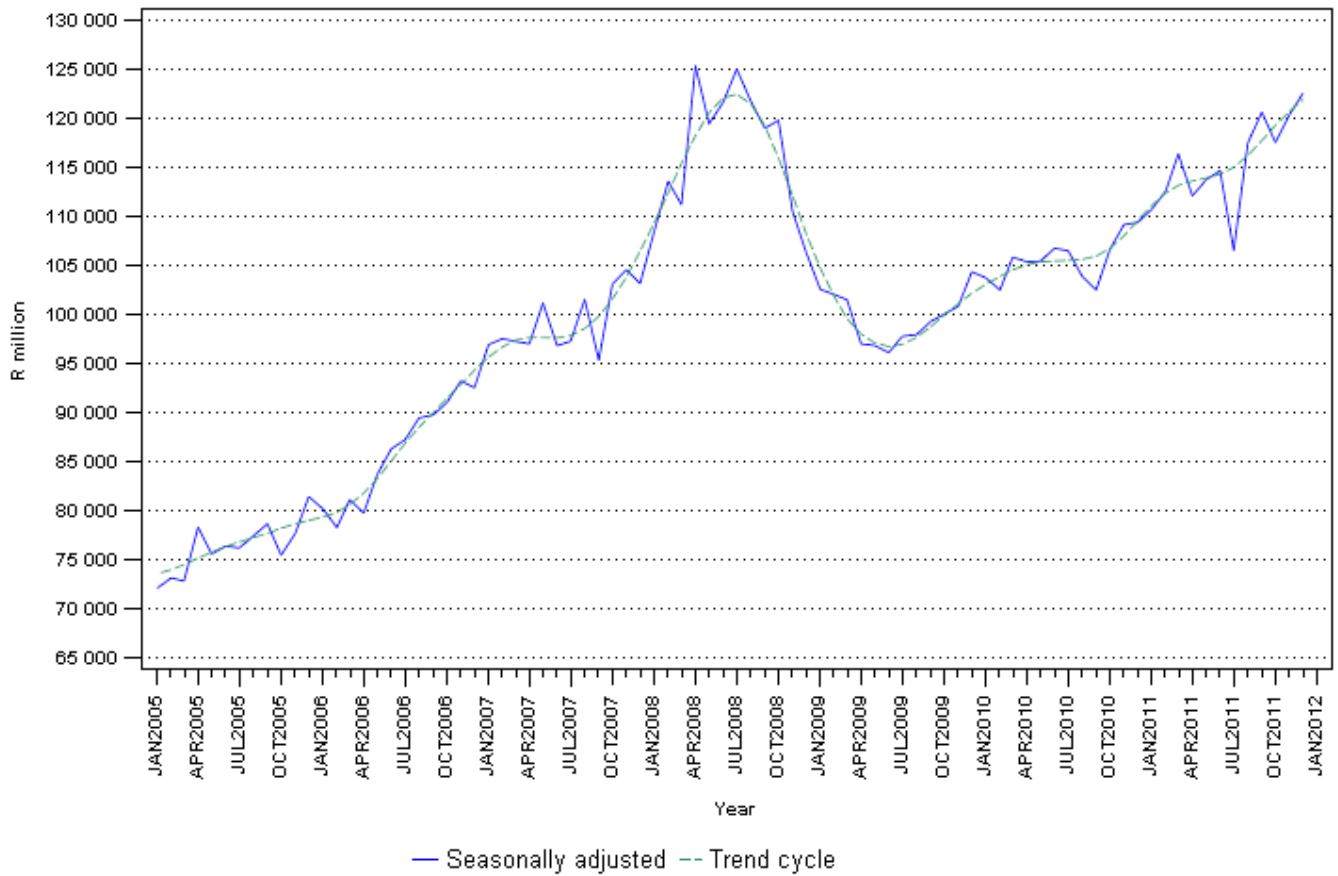
The four manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were:

- the basic iron and steel, non-ferrous metal products, metal products and machinery division (12,7% or R9 158 million);
- the petroleum, chemical products, rubber and plastic products division (7,5% or R5 968 million);
- the wood and wood products, paper, publishing and printing division (8,4% or R2 286 million); and
- the food and beverages division (3,3% or R2 249 million) (see Table C).

Table C – Contribution of manufacturing divisions and major groups to the three-monthly total seasonally adjusted sales of the manufacturing industry at current prices

| Manufacturing divisions and major groups | Seasonally adjusted sales July to September 2011 | Seasonally adjusted sales October to December 2011 | % change between July to September 2011 and October to December 2011 | Difference in seasonally adjusted sales of manufacturing divisions between July to September 2011 and October to December 2011 |
|---|--|--|--|--|
| | R'000 | R'000 | % | R'000 |
| Food and beverages | 68 846 347 | 71 095 488 | 3,3 | 2 249 141 |
| -Food and food products | 52 079 274 | 53 588 134 | 2,9 | 1 508 860 |
| -Beverages | 16 767 072 | 17 507 353 | 4,4 | 740 281 |
| Textiles, clothing, leather and footwear | 10 000 500 | 9 907 653 | -0,9 | -92 847 |
| -Textiles | 4 072 137 | 4 050 307 | -0,5 | -21 830 |
| -Wearing apparel | 3 909 634 | 3 800 281 | -2,8 | -109 353 |
| -Leather and leather products | 1 049 002 | 1 120 153 | 6,8 | 71 151 |
| -Footwear | 969 727 | 936 912 | -3,4 | -32 815 |
| Wood and wood products, paper, publishing and printing | 27 196 741 | 29 482 442 | 8,4 | 2 285 701 |
| -Wood and products of wood | 5 978 907 | 6 155 422 | 3,0 | 176 515 |
| -Paper and paper products | 11 973 369 | 12 993 161 | 8,5 | 1 019 792 |
| -Publishing and printing | 9 244 467 | 10 333 860 | 11,8 | 1 089 393 |
| Petroleum, chemical products, rubber and plastic products | 79 684 915 | 85 653 340 | 7,5 | 5 968 425 |
| -Coke, petroleum products and nuclear fuel | 29 941 560 | 32 247 957 | 7,7 | 2 306 397 |
| -Basic chemicals | 16 690 427 | 18 490 030 | 10,8 | 1 799 603 |
| -Other chemical products | 17 925 803 | 19 252 739 | 7,4 | 1 326 936 |
| -Rubber products | 3 831 554 | 3 996 020 | 4,3 | 164 466 |
| -Plastic products | 11 295 570 | 11 666 596 | 3,3 | 371 026 |
| Glass and non-metallic mineral products | 10 784 547 | 10 921 208 | 1,3 | 136 661 |
| -Glass and glass products | 1 857 095 | 1 711 260 | -7,9 | -145 835 |
| -Non-metallic mineral products | 8 927 453 | 9 209 948 | 3,2 | 282 495 |
| Basic iron and steel, non-ferrous metal products, metal products and machinery | 72 080 417 | 81 238 017 | 12,7 | 9 157 600 |
| -Basic iron and steel products | 20 757 503 | 26 658 310 | 28,4 | 5 900 807 |
| -Basic precious, non-ferrous metal products | 15 194 695 | 15 707 276 | 3,4 | 512 581 |
| -Fabricated metal products | 18 486 661 | 19 857 091 | 7,4 | 1 370 430 |
| -Machinery and equipment | 17 641 557 | 19 015 338 | 7,8 | 1 373 781 |
| Electrical machinery | 10 342 416 | 10 743 595 | 3,9 | 401 179 |
| Radio, television and communication apparatus and professional equipment | 4 121 139 | 3 982 476 | -3,4 | -138 663 |
| -Radio, television and communication apparatus | 2 194 548 | 1 964 694 | -10,5 | -229 854 |
| -Professional equipment | 1 926 592 | 2 017 781 | 4,7 | 91 189 |
| Motor vehicles, parts and accessories and other transport equipment | 46 877 390 | 42 598 395 | -9,1 | -4 278 995 |
| -Motor vehicles, trailers, parts and accessories | 42 350 089 | 38 837 108 | -8,3 | -3 512 981 |
| -Other transport equipment | 4 527 300 | 3 761 285 | -16,9 | -766 015 |
| Furniture and other manufacturing division | 14 756 550 | 14 983 353 | 1,5 | 226 803 |
| -Furniture | 2 865 377 | 2 928 138 | 2,2 | 62 761 |
| -Other manufacturing groups | 11 891 174 | 12 055 215 | 1,4 | 164 041 |
| Total | 344 690 960 | 360 605 965 | 4,6 | 15 915 005 |

Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2005 – 2011



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Statistician-General

Detailed results

Table 1 – Total index of the physical volume of manufacturing production: 2005 – 2011

Base: 2005=100

| Month | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------|-------|-------|-------|-------|-------|-------|----------|
| Jan | 84,8 | 89,7 | 95,0 | 95,9 | 83,4 | 85,9 | 88,0 |
| Feb | 95,2 | 96,7 | 104,7 | 108,5 | 91,5 | 93,7 | 99,7 |
| Mar | 101,2 | 106,2 | 113,6 | 111,9 | 98,3 | 104,7 | 110,4 |
| Apr | 96,5 | 95,6 | 101,0 | 111,9 | 87,1 | 94,6 | 94,7 |
| May | 100,4 | 104,3 | 113,4 | 114,3 | 94,2 | 101,9 | 102,8 |
| Jun | 100,3 | 106,7 | 109,2 | 115,1 | 94,9 | 103,8 | 104,9 |
| Jul | 101,1 | 107,4 | 111,2 | 115,2 | 98,9 | 106,0 | 99,5 |
| Aug | 103,5 | 108,8 | 114,4 | 114,9 | 96,7 | 101,7 | 107,7 |
| Sep | 107,6 | 109,7 | 108,9 | 114,2 | 100,7 | 102,1 | 110,5 |
| Oct | 107,1 | 117,0 | 124,1 | 121,1 | 109,1 | 111,8 | 1/ 113,1 |
| Nov | 110,8 | 119,1 | 124,3 | 114,3 | 108,4 | 113,7 | 1/ 116,9 |
| Dec | 91,4 | 96,6 | 96,5 | 87,8 | 90,2 | 90,9 | 1/ 93,1 |
| Year | 100,0 | 104,8 | 109,7 | 110,4 | 96,1 | 100,9 | 103,4 |

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Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2005 – 2011 2/

| Month | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------|------|------|------|------|-------|------|------|
| Jan | 2,4 | 5,8 | 5,9 | 0,9 | -13,0 | 3,0 | 2,4 |
| Feb | 3,8 | 1,6 | 8,3 | 3,6 | -15,7 | 2,4 | 6,4 |
| Mar | 0,0 | 4,9 | 7,0 | -1,5 | -12,2 | 6,5 | 5,4 |
| Apr | 8,3 | -0,9 | 5,6 | 10,8 | -22,2 | 8,6 | 0,1 |
| May | 1,6 | 3,9 | 8,7 | 0,8 | -17,6 | 8,2 | 0,9 |
| Jun | 2,7 | 6,4 | 2,3 | 5,4 | -17,5 | 9,4 | 1,1 |
| Jul | 1,0 | 6,2 | 3,5 | 3,6 | -14,1 | 7,2 | -6,1 |
| Aug | 3,2 | 5,1 | 5,1 | 0,4 | -15,8 | 5,2 | 5,9 |
| Sep | 5,3 | 2,0 | -0,7 | 4,9 | -11,8 | 1,4 | 8,2 |
| Oct | -1,0 | 9,2 | 6,1 | -2,4 | -9,9 | 2,5 | 1,2 |
| Nov | 3,3 | 7,5 | 4,4 | -8,0 | -5,2 | 4,9 | 2,8 |
| Dec | 5,1 | 5,7 | -0,1 | -9,0 | 2,7 | 0,8 | 2,4 |
| Year | 2,9 | 4,8 | 4,7 | 0,6 | -13,0 | 5,0 | 2,5 |

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: 2005 – 2011

Base: 2005=100

| Month | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------|-------|-------|-------|-------|-------|-------|-------|
| Jan | 96,7 | 103,1 | 109,9 | 111,6 | 97,7 | 100,6 | 103,3 |
| Feb | 99,2 | 101,1 | 109,8 | 114,0 | 96,2 | 98,6 | 104,9 |
| Mar | 98,1 | 103,0 | 110,1 | 108,4 | 95,1 | 101,0 | 106,4 |
| Apr | 103,0 | 101,7 | 108,1 | 120,1 | 93,5 | 102,0 | 102,1 |
| May | 99,5 | 103,4 | 112,5 | 113,6 | 93,9 | 101,7 | 102,6 |
| Jun | 99,6 | 105,8 | 107,9 | 113,5 | 93,6 | 102,3 | 103,4 |
| Jul | 99,5 | 105,3 | 108,7 | 112,5 | 96,5 | 103,4 | 97,0 |
| Aug | 100,2 | 105,1 | 110,5 | 111,4 | 94,1 | 99,1 | 105,2 |
| Sep | 103,9 | 105,5 | 104,7 | 109,8 | 96,4 | 97,8 | 105,3 |
| Oct | 96,7 | 105,5 | 111,7 | 108,8 | 98,4 | 100,6 | 102,0 |
| Nov | 99,9 | 107,5 | 112,2 | 102,7 | 98,0 | 102,2 | 105,0 |
| Dec | 103,4 | 109,5 | 109,3 | 97,6 | 100,6 | 101,5 | 103,6 |

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 2011 | Actual indices | | | Seasonally adjusted indices | | |
|---|--------------|------------------|----------------|------------------|------------------|-----------------------------|---------------|---------------|
| | | | December 2010 | 1/ November 2011 | 1/ December 2011 | December 2010 | November 2011 | December 2011 |
| Food and beverages | 15,4 | 119,2 | 135,5 | 138,3 | 136,0 | 122,1 | 123,7 | 121,6 |
| -Meat, fish, fruit, etc. | 1,8 | 120,2 | 128,0 | 132,7 | 130,1 | 120,0 | 123,9 | 121,5 |
| -Dairy products | 0,8 | 117,9 | 130,6 | 136,5 | 132,0 | 116,1 | 126,0 | 117,5 |
| -Grain mill products | 0,8 | 109,3 | 106,7 | 120,7 | 112,1 | 105,7 | 113,8 | 111,3 |
| -Other food products | 5,2 | 115,9 | 109,4 | 127,9 | 104,5 | 125,0 | 116,8 | 119,0 |
| -Beverages | 6,8 | 122,9 | 161,5 | 150,0 | 164,8 | 123,2 | 129,8 | 125,4 |
| Textiles, clothing, leather and footwear | 4,9 | 81,9 | 65,0 | 99,5 | 64,1 | 82,5 | 83,0 | 81,2 |
| -Textiles | 0,7 | 60,5 | 43,5 | 69,0 | 44,7 | 63,0 | 61,9 | 64,2 |
| -Other textile products | 0,9 | 72,7 | 53,7 | 88,2 | 51,8 | 71,4 | 73,6 | 69,0 |
| -Knitted, crocheted articles | 0,2 | 90,3 | 73,6 | 83,0 | 61,3 | 100,8 | 80,1 | 83,1 |
| -Wearing apparel | 2,1 | 83,2 | 68,7 | 102,1 | 69,7 | 82,1 | 81,9 | 83,4 |
| -Leather and leather products | 0,6 | 95,1 | 80,8 | 117,3 | 77,0 | 97,6 | 103,2 | 92,6 |
| -Footwear | 0,4 | 106,4 | 78,6 | 139,3 | 74,5 | 111,0 | 113,8 | 105,3 |
| Wood and wood products, paper, publishing and printing | 10,2 | 97,8 | 90,0 | 120,0 | 99,0 | 97,7 | 105,5 | 107,1 |
| -Sawmilling and planing of wood | 0,7 | 86,8 | 66,4 | 98,7 | 72,6 | 88,7 | 92,4 | 96,6 |
| -Products of wood | 1,3 | 88,5 | 75,5 | 106,0 | 75,3 | 92,8 | 90,7 | 92,1 |
| -Paper and paper products | 3,8 | 111,2 | 112,7 | 128,2 | 118,2 | 114,3 | 119,4 | 119,5 |
| -Publishing | 1,9 | 87,0 | 74,0 | 112,6 | 109,1 | 79,1 | 96,2 | 116,8 |
| -Printing, recorded media | 2,5 | 93,0 | 80,9 | 126,3 | 81,5 | 90,9 | 102,3 | 91,4 |
| Petroleum, chemical products, rubber and plastic products | 22,1 | 112,9 | 98,3 | 122,3 | 103,5 | 107,3 | 111,3 | 113,0 |
| -Coke, petroleum products and nuclear fuel | 8,5 | 88,7 | 82,3 | 75,5 | 79,2 | 79,8 | 77,3 | 76,7 |
| -Basic chemicals | 4,5 | 131,4 | 112,0 | 150,7 | 124,5 | 128,2 | 131,3 | 142,8 |
| -Other chemical products | 5,3 | 121,7 | 107,8 | 142,0 | 122,0 | 117,6 | 126,6 | 132,5 |
| -Rubber products | 1,0 | 96,8 | 58,5 | 123,3 | 58,7 | 89,2 | 109,0 | 89,4 |
| -Plastic products | 2,7 | 146,9 | 121,4 | 182,8 | 124,0 | 144,9 | 155,5 | 147,7 |
| Glass and non-metallic mineral products | 4,8 | 96,4 | 79,9 | 119,9 | 76,1 | 95,6 | 104,1 | 92,0 |
| -Glass and glass products | 1,0 | 115,4 | 114,1 | 161,7 | 82,7 | 121,0 | 127,2 | 87,7 |
| -Non-metallic mineral products | 3,8 | 91,7 | 71,3 | 109,4 | 74,4 | 89,3 | 98,4 | 93,1 |
| Basic iron and steel, non-ferrous metal products, metal products and machinery | 22,9 | 91,8 | 74,7 | 100,6 | 80,6 | 87,7 | 93,5 | 94,7 |
| -Basic iron and steel products | 7,7 | 78,4 | 61,6 | 76,5 | 70,8 | 70,9 | 78,2 | 82,0 |
| -Non-ferrous metal products | 3,4 | 109,2 | 99,6 | 110,8 | 102,5 | 104,4 | 108,0 | 107,9 |
| -Structural metal products | 2,0 | 89,9 | 72,6 | 98,8 | 72,8 | 94,1 | 85,9 | 93,9 |
| -Other fabricated metal products | 3,8 | 112,0 | 79,7 | 139,7 | 84,6 | 109,2 | 118,4 | 115,9 |
| -General purpose machinery | 2,4 | 72,6 | 63,4 | 87,0 | 63,9 | 70,0 | 75,6 | 70,5 |
| -Special purpose machinery | 3,1 | 95,1 | 84,4 | 109,8 | 94,1 | 91,9 | 102,6 | 102,3 |
| -Household appliances | 0,6 | 101,2 | 71,4 | 116,5 | 77,3 | 98,9 | 101,9 | 107,0 |
| Electrical machinery | 2,5 | 130,3 | 108,4 | 152,7 | 102,8 | 134,1 | 138,0 | 130,2 |
| Radio, television and communication apparatus and professional equipment | 1,1 | 105,9 | 89,1 | 119,3 | 98,0 | 97,8 | 107,1 | 108,5 |
| -Radio, television and communication apparatus | 0,4 | 104,2 | 99,4 | 124,0 | 86,5 | 102,5 | 108,8 | 89,0 |
| -Professional equipment | 0,7 | 107,0 | 82,5 | 116,3 | 105,3 | 94,9 | 106,0 | 120,8 |
| Motor vehicles, parts and accessories and other transport equipment | 10,9 | 103,1 | 68,9 | 110,1 | 64,6 | 104,3 | 98,8 | 97,4 |
| -Motor vehicles | 4,9 | 96,5 | 57,6 | 100,2 | 52,0 | 93,8 | 87,4 | 84,2 |
| -Bodies for motor vehicles, trailers and semi-trailers | 0,5 | 126,1 | 92,5 | 151,9 | 88,5 | 142,1 | 127,9 | 135,2 |
| -Parts and accessories | 4,7 | 104,8 | 71,3 | 117,0 | 69,5 | 109,7 | 108,6 | 106,3 |
| -Other transport equipment | 0,9 | 117,4 | 103,5 | 106,4 | 93,3 | 114,2 | 95,0 | 103,4 |
| Furniture and other manufacturing division | 5,2 | 92,9 | 73,8 | 107,3 | 63,4 | 85,9 | 91,0 | 73,9 |
| -Furniture | 1,3 | 93,9 | 78,3 | 126,7 | 74,6 | 93,2 | 95,8 | 88,7 |
| -Other manufacturing groups | 3,9 | 92,6 | 72,3 | 100,8 | 59,7 | 83,5 | 89,4 | 68,9 |
| Total | 100,0 | 103,4 | 90,9 | 116,9 | 93,1 | 101,5 | 105,0 | 103,6 |

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 2011 | Actual indices | | | Seasonally adjusted indices | | |
|---|--------------|------------------|----------------|------------------|--|-----------------------------|---------------|--|
| | | | December 2010 | 1/ December 2011 | % change between December 2010 and December 2011 | November 2011 | December 2011 | % change between November 2011 and December 2011 |
| Food and beverages | 15,4 | 119,2 | 135,5 | 136,0 | 0,4 | 123,7 | 121,6 | -1,7 |
| -Meat, fish, fruit, etc. | 1,8 | 120,2 | 128,0 | 130,1 | 1,6 | 123,9 | 121,5 | -1,9 |
| -Dairy products | 0,8 | 117,9 | 130,6 | 132,0 | 1,1 | 126,0 | 117,5 | -6,7 |
| -Grain mill products | 0,8 | 109,3 | 106,7 | 112,1 | 5,1 | 113,8 | 111,3 | -2,2 |
| -Other food products | 5,2 | 115,9 | 109,4 | 104,5 | -4,5 | 116,8 | 119,0 | 1,9 |
| -Beverages | 6,8 | 122,9 | 161,5 | 164,8 | 2,0 | 129,8 | 125,4 | -3,4 |
| Textiles, clothing, leather and footwear | 4,9 | 81,9 | 65,0 | 64,1 | -1,4 | 83,0 | 81,2 | -2,2 |
| -Textiles | 0,7 | 60,5 | 43,5 | 44,7 | 2,8 | 61,9 | 64,2 | 3,7 |
| -Other textile products | 0,9 | 72,7 | 53,7 | 51,8 | -3,5 | 73,6 | 69,0 | -6,3 |
| -Knitted, crocheted articles | 0,2 | 90,3 | 73,6 | 61,3 | -16,7 | 80,1 | 83,1 | 3,7 |
| -Wearing apparel | 2,1 | 83,2 | 68,7 | 69,7 | 1,5 | 81,9 | 83,4 | 1,8 |
| -Leather and leather products | 0,6 | 95,1 | 80,8 | 77,0 | -4,7 | 103,2 | 92,6 | -10,3 |
| -Footwear | 0,4 | 106,4 | 78,6 | 74,5 | -5,2 | 113,8 | 105,3 | -7,5 |
| Wood and wood products, paper, publishing and printing | 10,2 | 97,8 | 90,0 | 99,0 | 10,0 | 105,5 | 107,1 | 1,5 |
| -Sawmilling and planing of wood | 0,7 | 86,8 | 66,4 | 72,6 | 9,3 | 92,4 | 96,6 | 4,5 |
| -Products of wood | 1,3 | 88,5 | 75,5 | 75,3 | -0,3 | 90,7 | 92,1 | 1,5 |
| -Paper and paper products | 3,8 | 111,2 | 112,7 | 118,2 | 4,9 | 119,4 | 119,5 | 0,1 |
| -Publishing | 1,9 | 87,0 | 74,0 | 109,1 | 47,4 | 96,2 | 116,8 | 21,4 |
| -Printing, recorded media | 2,5 | 93,0 | 80,9 | 81,5 | 0,7 | 102,3 | 91,4 | -10,7 |
| Petroleum, chemical products, rubber and plastic products | 22,1 | 112,9 | 98,3 | 103,5 | 5,3 | 111,3 | 113,0 | 1,5 |
| -Coke, petroleum products and nuclear fuel | 8,5 | 88,7 | 82,3 | 79,2 | -3,8 | 77,3 | 76,7 | -0,8 |
| -Basic chemicals | 4,5 | 131,4 | 112,0 | 124,5 | 11,2 | 131,3 | 142,8 | 8,8 |
| -Other chemical products | 5,3 | 121,7 | 107,8 | 122,0 | 13,2 | 126,6 | 132,5 | 4,7 |
| -Rubber products | 1,0 | 96,8 | 58,5 | 58,7 | 0,3 | 109,0 | 89,4 | -18,0 |
| -Plastic products | 2,7 | 146,9 | 121,4 | 124,0 | 2,1 | 155,5 | 147,7 | -5,0 |
| Glass and non-metallic mineral products | 4,8 | 96,4 | 79,9 | 76,1 | -4,8 | 104,1 | 92,0 | -11,6 |
| -Glass and glass products | 1,0 | 115,4 | 114,1 | 82,7 | -27,5 | 127,2 | 87,7 | -31,1 |
| -Non-metallic mineral products | 3,8 | 91,7 | 71,3 | 74,4 | 4,3 | 98,4 | 93,1 | -5,4 |
| Basic iron and steel, non-ferrous metal products, metal products and machinery | 22,9 | 91,8 | 74,7 | 80,6 | 7,9 | 93,5 | 94,7 | 1,3 |
| -Basic iron and steel products | 7,7 | 78,4 | 61,6 | 70,8 | 14,9 | 78,2 | 82,0 | 4,9 |
| -Non-ferrous metal products | 3,4 | 109,2 | 99,6 | 102,5 | 2,9 | 108,0 | 107,9 | -0,1 |
| -Structural metal products | 2,0 | 89,9 | 72,6 | 72,8 | 0,3 | 85,9 | 93,9 | 9,3 |
| -Other fabricated metal products | 3,8 | 112,0 | 79,7 | 84,6 | 6,1 | 118,4 | 115,9 | -2,1 |
| -General purpose machinery | 2,4 | 72,6 | 63,4 | 63,9 | 0,8 | 75,6 | 70,5 | -6,7 |
| -Special purpose machinery | 3,1 | 95,1 | 84,4 | 94,1 | 11,5 | 102,6 | 102,3 | -0,3 |
| -Household appliances | 0,6 | 101,2 | 71,4 | 77,3 | 8,3 | 101,9 | 107,0 | 5,0 |
| Electrical machinery | 2,5 | 130,3 | 108,4 | 102,8 | -5,2 | 138,0 | 130,2 | -5,7 |
| Radio, television and communication apparatus and professional equipment | 1,1 | 105,9 | 89,1 | 98,0 | 10,0 | 107,1 | 108,5 | 1,3 |
| -Radio, television and communication apparatus | 0,4 | 104,2 | 99,4 | 86,5 | -13,0 | 108,8 | 89,0 | -18,2 |
| -Professional equipment | 0,7 | 107,0 | 82,5 | 105,3 | 27,6 | 106,0 | 120,8 | 14,0 |
| Motor vehicles, parts and accessories and other transport equipment | 10,9 | 103,1 | 68,9 | 64,6 | -6,2 | 98,8 | 97,4 | -1,4 |
| -Motor vehicles | 4,9 | 96,5 | 57,6 | 52,0 | -9,7 | 87,4 | 84,2 | -3,7 |
| -Bodies for motor vehicles, trailers and semi-trailers | 0,5 | 126,1 | 92,5 | 88,5 | -4,3 | 127,9 | 135,2 | 5,7 |
| -Parts and accessories | 4,7 | 104,8 | 71,3 | 69,5 | -2,5 | 108,6 | 106,3 | -2,1 |
| -Other transport equipment | 0,9 | 117,4 | 103,5 | 93,3 | -9,9 | 95,0 | 103,4 | 8,8 |
| Furniture and other manufacturing division | 5,2 | 92,9 | 73,8 | 63,4 | -14,1 | 91,0 | 73,9 | -18,8 |
| -Furniture | 1,3 | 93,9 | 78,3 | 74,6 | -4,7 | 95,8 | 88,7 | -7,4 |
| -Other manufacturing groups | 3,9 | 92,6 | 72,3 | 59,7 | -17,4 | 89,4 | 68,9 | -22,9 |
| Total | 100,0 | 103,4 | 90,9 | 93,1 | 2,4 | 105,0 | 103,6 | -1,3 |

1/ Preliminary.

Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2005 – 2011

| Month | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Jan | 60 642 593 | 67 351 678 | 81 459 988 | 91 280 084 | 85 793 294 | 86 836 064 | 92 863 625 |
| Feb | 70 167 086 | 74 930 635 | 93 134 142 | 108 137 770 | 97 350 713 | 97 825 640 | 107 158 143 |
| Mar | 74 589 427 | 83 169 373 | 100 113 755 | 114 652 520 | 105 127 970 | 110 232 624 | 121 108 364 |
| Apr | 73 611 723 | 74 690 973 | 90 606 196 | 116 896 823 | 90 156 553 | 97 707 572 | 103 921 168 |
| May | 75 830 084 | 83 925 122 | 101 641 507 | 120 173 410 | 96 487 420 | 105 089 142 | 113 377 474 |
| Jun | 77 338 913 | 87 683 125 | 98 764 796 | 124 811 522 | 98 161 671 | 109 279 984 | 117 502 258 |
| Jul | 77 298 647 | 88 860 703 | 99 325 320 | 128 335 265 | 99 715 325 | 108 621 205 | 108 591 835 |
| Aug | 79 781 239 | 92 520 358 | 104 978 175 | 126 167 640 | 100 731 886 | 106 288 802 | 119 985 649 |
| Sep | 82 859 539 | 94 724 833 | 100 538 717 | 125 588 533 | 104 781 622 | 108 523 831 | 127 892 291 |
| Oct | 82 759 631 | 99 968 405 | 113 462 255 | 131 772 450 | 109 759 231 | 116 804 203 | 1/ 128 378 804 |
| Nov | 86 473 327 | 103 494 740 | 116 007 502 | 122 615 454 | 111 844 877 | 121 292 114 | 1/ 133 370 213 |
| Dec | 73 429 961 | 82 554 715 | 91 954 469 | 95 903 778 | 95 002 438 | 99 664 494 | 1/ 111 892 741 |
| Year | 914 782 170 | 1 033 874 660 | 1 191 986 822 | 1 406 335 249 | 1 194 913 000 | 1 268 165 675 | 1 386 042 565 |

1/ Preliminary.

Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2005 – 2011 2/

| Month | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------------|------------|-------------|-------------|-------------|--------------|------------|------------|
| Jan | 4,6 | 11,1 | 20,9 | 12,1 | -6,0 | 1,2 | 6,9 |
| Feb | 3,8 | 6,8 | 24,3 | 16,1 | -10,0 | 0,5 | 9,5 |
| Mar | 0,4 | 11,5 | 20,4 | 14,5 | -8,3 | 4,9 | 9,9 |
| Apr | 11,0 | 1,5 | 21,3 | 29,0 | -22,9 | 8,4 | 6,4 |
| May | 4,8 | 10,7 | 21,1 | 18,2 | -19,7 | 8,9 | 7,9 |
| Jun | 7,0 | 13,4 | 12,6 | 26,4 | -21,4 | 11,3 | 7,5 |
| Jul | 6,1 | 15,0 | 11,8 | 29,2 | -22,3 | 8,9 | 10,0 |
| Aug | 8,6 | 16,0 | 13,5 | 20,2 | -20,2 | 5,5 | 12,9 |
| Sep | 7,8 | 14,3 | 6,1 | 24,9 | -16,6 | 3,6 | 17,8 |
| Oct | 4,4 | 20,8 | 13,5 | 16,1 | -16,7 | 6,4 | 9,9 |
| Nov | 6,1 | 19,7 | 12,1 | 5,7 | -8,8 | 8,4 | 10,0 |
| Dec | 9,7 | 12,4 | 11,4 | 4,3 | -0,9 | 4,9 | 12,3 |
| Year | 6,1 | 13,0 | 15,3 | 18,0 | -15,0 | 6,1 | 9,3 |

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): 2005 – 2011

| Month | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|-------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| Jan | 72 012 988 | 80 131 983 | 96 899 947 | 108 458 112 | 102 554 438 | 103 718 790 | 110 716 480 |
| Feb | 73 064 101 | 78 202 455 | 97 507 865 | 113 604 171 | 102 017 017 | 102 477 078 | 112 578 440 |
| Mar | 72 741 309 | 81 056 957 | 97 234 076 | 111 212 513 | 101 488 964 | 105 838 754 | 116 396 032 |
| Apr | 78 236 600 | 79 689 517 | 96 977 961 | 125 400 687 | 96 973 614 | 105 375 859 | 112 099 325 |
| May | 75 518 448 | 83 644 736 | 101 163 886 | 119 473 417 | 96 813 301 | 105 427 450 | 113 751 393 |
| Jun | 76 306 944 | 86 261 651 | 96 789 102 | 121 664 656 | 96 094 812 | 106 745 548 | 114 683 794 |
| Jul | 76 122 558 | 87 166 790 | 97 245 158 | 125 071 893 | 97 756 102 | 106 513 438 | 106 537 618 |
| Aug | 77 355 117 | 89 411 728 | 101 523 950 | 121 772 037 | 97 917 060 | 103 890 808 | 117 501 573 |
| Sep | 78 599 401 | 89 724 298 | 95 310 614 | 119 020 697 | 99 257 679 | 102 499 033 | 120 651 769 |
| Oct | 75 383 739 | 90 953 377 | 103 083 311 | 119 823 862 | 100 020 746 | 106 602 706 | 117 568 249 |
| Nov | 77 590 208 | 93 198 325 | 104 558 114 | 110 506 952 | 100 815 649 | 109 163 597 | 120 418 327 |
| Dec | 81 351 558 | 92 502 997 | 103 146 089 | 106 320 059 | 104 350 542 | 109 384 158 | 122 619 389 |

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 2011 | Actual values | | | Seasonally adjusted values | | |
|---|----------------------|-------------------|--------------------|--------------------|----------------------------|--------------------|--------------------|
| | | December 2010 | 1/ November 2011 | 1/ December 2011 | December 2010 | November 2011 | December 2011 |
| Food and beverages | 270 519 560 | 24 867 716 | 26 636 687 | 27 345 169 | 21 629 389 | 23 996 310 | 23 730 644 |
| -Meat, fish, fruit, etc. | 74 865 586 | 6 541 061 | 7 150 986 | 7 239 957 | 5 895 059 | 6 539 955 | 6 511 273 |
| -Dairy products | 23 903 441 | 2 128 971 | 2 336 050 | 2 299 649 | 1 898 867 | 2 169 731 | 2 051 619 |
| -Grain mill products | 46 410 761 | 3 486 629 | 4 422 990 | 4 253 321 | 3 363 386 | 4 103 135 | 4 112 105 |
| -Other food products | 59 228 619 | 4 999 075 | 6 100 888 | 5 080 498 | 5 132 541 | 5 304 486 | 5 208 633 |
| -Beverages | 66 111 153 | 7 711 980 | 6 625 773 | 8 471 744 | 5 339 536 | 5 879 003 | 5 847 014 |
| Textiles, clothing, leather and footwear | 39 169 444 | 2 638 103 | 4 032 432 | 2 771 248 | 3 163 964 | 3 329 521 | 3 334 194 |
| -Textiles | 4 426 801 | 250 928 | 420 539 | 283 638 | 348 729 | 377 938 | 391 645 |
| -Other textile products | 11 407 610 | 726 817 | 1 149 889 | 811 279 | 891 876 | 967 237 | 993 819 |
| -Knitted, crocheted articles | 1 706 652 | 106 750 | 156 584 | 99 734 | 141 869 | 146 201 | 132 130 |
| -Wearing apparel | 13 551 837 | 1 031 821 | 1 435 257 | 1 008 898 | 1 152 296 | 1 139 130 | 1 128 993 |
| -Leather and leather products | 4 283 523 | 259 401 | 411 503 | 298 270 | 330 742 | 375 842 | 379 481 |
| -Footwear | 3 793 021 | 262 386 | 458 660 | 269 429 | 298 452 | 323 173 | 308 126 |
| Wood and wood products, paper, publishing and printing | 111 067 964 | 8 368 199 | 11 452 503 | 9 487 372 | 9 197 767 | 10 066 638 | 10 371 800 |
| -Sawmilling and planing of wood | 8 319 557 | 543 352 | 802 040 | 625 996 | 683 244 | 747 283 | 784 894 |
| -Products of wood | 15 603 654 | 1 073 465 | 1 583 380 | 1 100 022 | 1 298 748 | 1 350 037 | 1 322 546 |
| -Paper and paper products | 48 604 255 | 3 966 087 | 4 797 152 | 4 281 614 | 4 191 326 | 4 420 898 | 4 519 089 |
| -Publishing | 17 016 020 | 1 234 648 | 1 787 024 | 1 879 581 | 1 276 267 | 1 546 693 | 1 942 382 |
| -Printing, recorded media | 21 524 478 | 1 550 647 | 2 482 907 | 1 600 159 | 1 748 183 | 2 001 728 | 1 802 888 |
| Petroleum, chemical products, rubber and plastic products | 326 935 358 | 21 460 834 | 30 831 234 | 26 468 588 | 23 702 320 | 28 580 891 | 29 128 941 |
| -Coke, petroleum products and nuclear fuel | 125 518 801 | 6 867 270 | 10 166 353 | 10 232 089 | 7 346 062 | 10 764 514 | 10 994 448 |
| -Basic chemicals | 68 789 191 | 5 107 693 | 6 939 000 | 5 656 483 | 5 801 837 | 6 030 666 | 6 381 641 |
| -Other chemical products | 73 177 105 | 5 543 847 | 7 483 989 | 6 280 186 | 5 892 844 | 6 446 021 | 6 659 949 |
| -Rubber products | 14 613 823 | 844 851 | 1 596 414 | 1 033 754 | 1 092 112 | 1 412 944 | 1 333 609 |
| -Plastic products | 44 836 438 | 3 097 173 | 4 645 478 | 3 266 076 | 3 569 465 | 3 926 747 | 3 759 295 |
| Glass and non-metallic mineral products | 42 455 773 | 2 832 204 | 4 377 490 | 2 881 024 | 3 524 606 | 3 730 457 | 3 596 775 |
| -Glass and glass products | 7 027 902 | 590 370 | 819 253 | 531 785 | 610 444 | 590 606 | 548 316 |
| -Non-metallic mineral products | 35 427 871 | 2 241 834 | 3 558 237 | 2 349 239 | 2 914 162 | 3 139 851 | 3 048 459 |
| Basic iron and steel, non-ferrous metal products, metal products and machinery | 306 413 378 | 19 931 203 | 29 137 273 | 23 161 597 | 24 415 579 | 26 806 359 | 28 393 481 |
| -Basic iron and steel products | 97 801 939 | 6 232 840 | 9 105 937 | 7 245 186 | 8 336 783 | 9 079 216 | 9 718 974 |
| -Non-ferrous metal products | 61 809 327 | 4 039 285 | 5 012 097 | 5 097 139 | 4 484 854 | 4 528 621 | 5 678 690 |
| -Structural metal products | 27 384 802 | 1 741 296 | 2 667 811 | 1 901 783 | 2 241 843 | 2 341 627 | 2 437 012 |
| -Other fabricated metal products | 47 606 035 | 2 808 932 | 5 246 244 | 3 234 423 | 3 718 159 | 4 428 756 | 4 287 435 |
| -General purpose machinery | 29 653 308 | 2 092 492 | 3 057 491 | 2 270 911 | 2 296 542 | 2 675 827 | 2 495 608 |
| -Special purpose machinery | 33 020 736 | 2 438 138 | 3 137 591 | 2 797 669 | 2 593 458 | 2 962 909 | 2 986 697 |
| -Household appliances | 9 137 231 | 578 220 | 910 102 | 614 486 | 743 939 | 789 402 | 789 064 |
| -Electrical machinery | 41 577 486 | 2 760 815 | 4 099 063 | 2 770 488 | 3 371 797 | 3 716 554 | 3 434 938 |
| Radio, television and communication apparatus and professional equipment | 15 336 355 | 1 232 321 | 1 488 895 | 1 244 037 | 1 272 935 | 1 354 820 | 1 295 818 |
| -Radio, television and communication apparatus | 7 678 574 | 703 615 | 791 537 | 590 671 | 691 084 | 690 558 | 580 238 |
| -Professional equipment | 7 657 781 | 528 706 | 697 358 | 653 366 | 581 851 | 664 262 | 715 579 |
| Motor vehicles, parts and accessories and other transport equipment | 173 455 711 | 10 857 425 | 15 768 326 | 11 133 977 | 14 097 519 | 13 765 145 | 14 451 034 |
| -Motor vehicles | 85 808 406 | 5 820 527 | 7 668 327 | 5 787 171 | 7 032 806 | 6 445 515 | 6 926 467 |
| -Bodies for motor vehicles, trailers and semi-trailers | 8 243 992 | 541 955 | 847 776 | 540 555 | 716 927 | 702 402 | 711 079 |
| -Parts and accessories | 62 847 319 | 3 333 820 | 5 980 540 | 3 679 482 | 5 046 992 | 5 477 417 | 5 546 179 |
| -Other transport equipment | 16 555 994 | 1 161 123 | 1 271 683 | 1 126 769 | 1 300 795 | 1 139 810 | 1 267 309 |
| Furniture and other manufacturing division | 59 111 536 | 4 715 674 | 5 546 310 | 4 629 241 | 5 008 281 | 5 071 634 | 4 881 764 |
| -Furniture | 11 590 786 | 814 031 | 1 339 405 | 832 325 | 939 327 | 997 612 | 959 184 |
| -Other manufacturing groups | 47 520 750 | 3 901 643 | 4 206 905 | 3 796 916 | 4 068 954 | 4 074 022 | 3 922 580 |
| Total | 1 386 042 565 | 99 664 494 | 133 370 213 | 111 892 741 | 109 384 158 | 120 418 327 | 122 619 389 |

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 2011 | Actual values | | | Seasonally adjusted values | | |
|---|----------------------|-------------------|--------------------|--|----------------------------|--------------------|---|
| | | December 2010 | 1/ December 2011 | % change between December 2010 and December 2011 | November 2011 | December 2011 | % change between November and December 2011 |
| Food and beverages | 270 519 560 | 24 867 716 | 27 345 169 | 10,0 | 23 996 310 | 23 730 644 | -1,1 |
| -Meat, fish, fruit, etc. | 74 865 586 | 6 541 061 | 7 239 957 | 10,7 | 6 539 955 | 6 511 273 | -0,4 |
| -Dairy products | 23 903 441 | 2 128 971 | 2 299 649 | 8,0 | 2 169 731 | 2 051 619 | -5,4 |
| -Grain mill products | 46 410 761 | 3 486 629 | 4 253 321 | 22,0 | 4 103 135 | 4 112 105 | 0,2 |
| -Other food products | 59 228 619 | 4 999 075 | 5 080 498 | 1,6 | 5 304 486 | 5 208 633 | -1,8 |
| -Beverages | 66 111 153 | 7 711 980 | 8 471 744 | 9,9 | 5 879 003 | 5 847 014 | -0,5 |
| Textiles, clothing, leather and footwear | 39 169 444 | 2 638 103 | 2 771 248 | 5,0 | 3 329 521 | 3 334 194 | 0,1 |
| -Textiles | 4 426 801 | 250 928 | 283 638 | 13,0 | 377 938 | 391 645 | 3,6 |
| -Other textile products | 11 407 610 | 726 817 | 811 279 | 11,6 | 967 237 | 993 819 | 2,7 |
| -Knitted, crocheted articles | 1 706 652 | 106 750 | 99 734 | -6,6 | 146 201 | 132 130 | -9,6 |
| -Wearing apparel | 13 551 837 | 1 031 821 | 1 008 898 | -2,2 | 1 139 130 | 1 128 993 | -0,9 |
| -Leather and leather products | 4 283 523 | 259 401 | 298 270 | 15,0 | 375 842 | 379 481 | 1,0 |
| -Footwear | 3 793 021 | 262 386 | 269 429 | 2,7 | 323 173 | 308 126 | -4,7 |
| Wood and wood products, paper, publishing and printing | 111 067 964 | 8 368 199 | 9 487 372 | 13,4 | 10 066 638 | 10 371 800 | 3,0 |
| -Sawmilling and planing of wood | 8 319 557 | 543 352 | 625 996 | 15,2 | 747 283 | 784 894 | 5,0 |
| -Products of wood | 15 603 654 | 1 073 465 | 1 100 022 | 2,5 | 1 350 037 | 1 322 546 | -2,0 |
| -Paper and paper products | 48 604 255 | 3 966 087 | 4 281 614 | 8,0 | 4 420 898 | 4 519 089 | 2,2 |
| -Publishing | 17 016 020 | 1 234 648 | 1 879 581 | 52,2 | 1 546 693 | 1 942 382 | 25,6 |
| -Printing, recorded media | 21 524 478 | 1 550 647 | 1 600 159 | 3,2 | 2 001 728 | 1 802 888 | -9,9 |
| Petroleum, chemical products, rubber and plastic products | 326 935 358 | 21 460 834 | 26 468 588 | 23,3 | 28 580 891 | 29 128 941 | 1,9 |
| -Coke, petroleum products and nuclear fuel | 125 518 801 | 6 867 270 | 10 232 089 | 49,0 | 10 764 514 | 10 994 448 | 2,1 |
| -Basic chemicals | 68 789 191 | 5 107 693 | 5 656 483 | 10,7 | 6 030 666 | 6 381 641 | 5,8 |
| -Other chemical products | 73 177 105 | 5 543 847 | 6 280 186 | 13,3 | 6 446 021 | 6 659 949 | 3,3 |
| -Rubber products | 14 613 823 | 844 851 | 1 033 754 | 22,4 | 1 412 944 | 1 333 609 | -5,6 |
| -Plastic products | 44 836 438 | 3 097 173 | 3 266 076 | 5,5 | 3 926 747 | 3 759 295 | -4,3 |
| Glass and non-metallic mineral products | 42 455 773 | 2 832 204 | 2 881 024 | 1,7 | 3 730 457 | 3 596 775 | -3,6 |
| -Glass and glass products | 7 027 902 | 590 370 | 531 785 | -9,9 | 590 606 | 548 316 | -7,2 |
| -Non-metallic mineral products | 35 427 871 | 2 241 834 | 2 349 239 | 4,8 | 3 139 851 | 3 048 459 | -2,9 |
| Basic iron and steel, non-ferrous metal products, metal products and machinery | 306 413 378 | 19 931 203 | 23 161 597 | 16,2 | 26 806 359 | 28 393 481 | 5,9 |
| -Basic iron and steel products | 97 801 939 | 6 232 840 | 7 245 186 | 16,2 | 9 079 216 | 9 718 974 | 7,0 |
| -Non-ferrous metal products | 61 809 327 | 4 039 285 | 5 097 139 | 26,2 | 4 528 621 | 5 678 690 | 25,4 |
| -Structural metal products | 27 384 802 | 1 741 296 | 1 901 783 | 9,2 | 2 341 627 | 2 437 012 | 4,1 |
| -Other fabricated metal products | 47 606 035 | 2 808 932 | 3 234 423 | 15,1 | 4 428 756 | 4 287 435 | -3,2 |
| -General purpose machinery | 29 653 308 | 2 092 492 | 2 270 911 | 8,5 | 2 675 827 | 2 495 608 | -6,7 |
| -Special purpose machinery | 33 020 736 | 2 438 138 | 2 797 669 | 14,7 | 2 962 909 | 2 986 697 | 0,8 |
| -Household appliances | 9 137 231 | 578 220 | 614 486 | 6,3 | 789 402 | 789 064 | 0,0 |
| Electrical machinery | 41 577 486 | 2 760 815 | 2 770 488 | 0,4 | 3 716 554 | 3 434 938 | -7,6 |
| Radio, television and communication apparatus and professional equipment | 15 336 355 | 1 232 321 | 1 244 037 | 1,0 | 1 354 820 | 1 295 818 | -4,4 |
| -Radio, television and communication apparatus | 7 678 574 | 703 615 | 590 671 | -16,1 | 690 558 | 580 238 | -16,0 |
| -Professional equipment | 7 657 781 | 528 706 | 653 366 | 23,6 | 664 262 | 715 579 | 7,7 |
| Motor vehicles, parts and accessories and other transport equipment | 173 455 711 | 10 857 425 | 11 133 977 | 2,5 | 13 765 145 | 14 451 034 | 5,0 |
| -Motor vehicles | 85 808 406 | 5 820 527 | 5 787 171 | -0,6 | 6 445 515 | 6 926 467 | 7,5 |
| -Bodies for motor vehicles, trailers and semi-trailers | 8 243 992 | 541 955 | 540 555 | -0,3 | 702 402 | 711 079 | 1,2 |
| -Parts and accessories | 62 847 319 | 3 333 820 | 3 679 482 | 10,4 | 5 477 417 | 5 546 179 | 1,3 |
| -Other transport equipment | 16 555 994 | 1 161 123 | 1 126 769 | -3,0 | 1 139 810 | 1 267 309 | 11,2 |
| Furniture and other manufacturing division | 59 111 536 | 4 715 674 | 4 629 241 | -1,8 | 5 071 634 | 4 881 764 | -3,7 |
| -Furniture | 11 590 786 | 814 031 | 832 325 | 2,2 | 997 612 | 959 184 | -3,9 |
| -Other manufacturing groups | 47 520 750 | 3 901 643 | 3 796 916 | -2,7 | 4 074 022 | 3 922 580 | -3,7 |
| Total | 1 386 042 565 | 99 664 494 | 111 892 741 | 12,3 | 120 418 327 | 122 619 389 | 1,8 |

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. 2010 | Oct. to Dec. 2011 | Annual % change between Oct. to Dec. 2010 and Oct. to Dec. 2011 | Oct. to Dec. 2010 | Oct. to Dec. 2011 | Annual % change between Oct. to Dec. 2010 and Oct. to Dec. 2011 |
| Food and beverages | 15,4 | 132,2 | 136,8 | 3,5 | 70 432 034 | 78 824 137 | 11,9 |
| -Meat, fish, fruit, etc. | 1,8 | 124,7 | 129,3 | 3,7 | 18 750 913 | 21 208 419 | 13,1 |
| -Dairy products | 0,8 | 125,6 | 135,0 | 7,5 | 6 219 850 | 6 835 760 | 9,9 |
| -Grain mill products | 0,8 | 112,4 | 116,8 | 3,9 | 10 940 399 | 12 973 106 | 18,6 |
| -Other food products | 5,2 | 125,8 | 123,5 | -1,8 | 15 253 847 | 16 542 644 | 8,4 |
| -Beverages | 6,8 | 142,2 | 151,5 | 6,5 | 19 267 025 | 21 264 208 | 10,4 |
| Textiles, clothing, leather and footwear | 4,9 | 86,7 | 85,8 | -1,0 | 10 252 315 | 10 568 868 | 3,1 |
| -Textiles | 0,7 | 62,4 | 59,1 | -5,3 | 1 070 019 | 1 100 006 | 2,8 |
| -Other textile products | 0,9 | 74,3 | 75,3 | 1,3 | 2 875 521 | 3 076 466 | 7,0 |
| -Knitted, crocheted articles | 0,2 | 95,1 | 78,4 | -17,6 | 410 059 | 398 395 | -2,8 |
| -Wearing apparel | 2,1 | 91,1 | 89,9 | -1,3 | 3 823 926 | 3 757 242 | -1,7 |
| -Leather and leather products | 0,6 | 91,8 | 99,4 | 8,3 | 981 872 | 1 114 124 | 13,5 |
| -Footwear | 0,4 | 119,3 | 112,3 | -5,9 | 1 090 918 | 1 122 635 | 2,9 |
| Wood and wood products, paper, publishing and printing | 10,2 | 102,0 | 108,1 | 6,0 | 28 178 999 | 30 799 748 | 9,3 |
| -Sawmilling and planing of wood | 0,7 | 84,2 | 87,1 | 3,4 | 2 008 772 | 2 167 601 | 7,9 |
| -Products of wood | 1,3 | 92,8 | 94,0 | 1,3 | 3 984 511 | 4 139 374 | 3,9 |
| -Paper and paper products | 3,8 | 117,9 | 121,8 | 3,3 | 12 271 284 | 13 322 457 | 8,6 |
| -Publishing | 1,9 | 84,7 | 103,4 | 22,1 | 4 159 540 | 5 101 445 | 22,6 |
| -Printing, recorded media | 2,5 | 100,4 | 103,6 | 3,2 | 5 754 892 | 6 068 871 | 5,5 |
| Petroleum, chemical products, rubber and plastic products | 22,1 | 112,2 | 114,4 | 2,0 | 73 405 737 | 87 669 671 | 19,4 |
| -Coke, petroleum products and nuclear fuel | 8,5 | 86,2 | 75,9 | -11,9 | 23 195 481 | 31 169 684 | 34,4 |
| -Basic chemicals | 4,5 | 132,1 | 140,9 | 6,7 | 17 057 548 | 19 594 924 | 14,9 |
| -Other chemical products | 5,3 | 122,5 | 133,1 | 8,7 | 18 784 964 | 20 545 022 | 9,4 |
| -Rubber products | 1,0 | 84,7 | 95,2 | 12,4 | 3 104 765 | 3 937 935 | 26,8 |
| -Plastic products | 2,7 | 150,2 | 160,6 | 6,9 | 11 262 979 | 12 422 106 | 10,3 |
| Glass and non-metallic mineral products | 4,8 | 96,6 | 102,1 | 5,7 | 10 559 786 | 11 286 411 | 6,9 |
| -Glass and glass products | 1,0 | 135,4 | 125,1 | -7,6 | 2 103 486 | 2 040 380 | -3,0 |
| -Non-metallic mineral products | 3,8 | 86,9 | 96,3 | 10,8 | 8 456 300 | 9 246 031 | 9,3 |
| Basic iron and steel, non-ferrous metal products, metal products and machinery | 22,9 | 88,3 | 94,0 | 6,5 | 72 412 776 | 80 712 339 | 11,5 |
| -Basic iron and steel products | 7,7 | 72,0 | 76,5 | 6,3 | 23 309 179 | 24 880 033 | 6,7 |
| -Non-ferrous metal products | 3,4 | 104,6 | 109,5 | 4,7 | 13 702 101 | 15 962 210 | 16,5 |
| -Structural metal products | 2,0 | 95,1 | 89,2 | -6,2 | 6 685 358 | 7 087 021 | 6,0 |
| -Other fabricated metal products | 3,8 | 108,9 | 117,0 | 7,4 | 11 359 766 | 13 006 673 | 14,5 |
| -General purpose machinery | 2,4 | 74,0 | 79,9 | 8,0 | 7 332 324 | 8 330 307 | 13,6 |
| -Special purpose machinery | 3,1 | 90,0 | 104,1 | 15,7 | 7 696 290 | 9 001 163 | 17,0 |
| -Household appliances | 0,6 | 99,3 | 105,2 | 5,9 | 2 327 758 | 2 444 932 | 5,0 |
| Electrical machinery | 2,5 | 129,1 | 131,7 | 2,0 | 9 818 933 | 10 609 842 | 8,1 |
| Radio, television and communication apparatus and professional equipment | 1,1 | 99,6 | 110,4 | 10,8 | 3 713 542 | 4 118 156 | 10,9 |
| -Radio, television and communication apparatus | 0,4 | 104,4 | 109,2 | 4,6 | 1 967 961 | 2 122 710 | 7,9 |
| -Professional equipment | 0,7 | 96,6 | 111,1 | 15,0 | 1 745 581 | 1 995 446 | 14,3 |
| Motor vehicles, parts and accessories and other transport equipment | 10,9 | 106,3 | 96,2 | -9,5 | 44 477 110 | 43 503 512 | -2,2 |
| -Motor vehicles | 4,9 | 103,3 | 87,0 | -15,8 | 23 353 241 | 21 970 531 | -5,9 |
| -Bodies for motor vehicles, trailers and semi-trailers | 0,5 | 123,4 | 129,9 | 5,3 | 2 058 589 | 2 210 846 | 7,4 |
| -Parts and accessories | 4,7 | 104,7 | 100,0 | -4,5 | 14 969 360 | 15 447 497 | 3,2 |
| -Other transport equipment | 0,9 | 121,9 | 108,0 | -11,4 | 4 095 920 | 3 874 638 | -5,4 |
| Furniture and other manufacturing division | 5,2 | 94,0 | 91,1 | -3,1 | 14 509 579 | 15 549 074 | 7,2 |
| -Furniture | 1,3 | 103,8 | 107,4 | 3,5 | 3 128 222 | 3 422 814 | 9,4 |
| -Other manufacturing groups | 3,9 | 90,7 | 85,7 | -5,5 | 11 381 357 | 12 126 260 | 6,5 |
| Total | 100,0 | 105,5 | 107,7 | 2,1 | 337 760 811 | 373 641 758 | 10,6 |

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. 2010 | Jan. to Dec. 2011 | Annual % change between 2010 and 2011 | Contribution (% points) | Jan. to Dec. 2010 | Jan. to Dec. 2011 | Annual % change between 2010 and 2011 | Difference in sales between 2010 and 2011 |
| Food and beverages | 15,4 | 116,5 | 119,2 | 2,3 | 0,4 | 248 529 | 270 520 | 8,8 | 21 991 |
| -Meat, fish, fruit, etc. | 1,8 | 115,4 | 120,2 | 4,2 | 0,1 | 67 147 | 74 866 | 11,5 | 7 719 |
| -Dairy products | 0,8 | 111,6 | 117,9 | 5,6 | 0,0 | 22 395 | 23 903 | 6,7 | 1 508 |
| -Grain mill products | 0,8 | 110,4 | 109,3 | -1,0 | 0,0 | 41 968 | 46 411 | 10,6 | 4 443 |
| -Other food products | 5,2 | 116,4 | 115,9 | -0,4 | 0,0 | 55 508 | 59 229 | 6,7 | 3 721 |
| -Beverages | 6,8 | 118,2 | 122,9 | 4,0 | 0,3 | 61 510 | 66 111 | 7,5 | 4 601 |
| Textiles, clothing, leather and footwear | 4,9 | 84,1 | 81,9 | -2,6 | -0,1 | 39 304 | 39 169 | -0,3 | -135 |
| -Textiles | 0,7 | 66,5 | 60,5 | -9,0 | 0,0 | 4 435 | 4 427 | -0,2 | -8 |
| -Other textile products | 0,9 | 73,1 | 72,7 | -0,5 | 0,0 | 11 286 | 11 408 | 1,1 | 122 |
| -Knitted, crocheted articles | 0,2 | 103,6 | 90,3 | -12,8 | 0,0 | 1 790 | 1 707 | -4,6 | -83 |
| -Wearing apparel | 2,1 | 86,5 | 83,2 | -3,8 | -0,1 | 14 242 | 13 552 | -4,8 | -690 |
| -Leather and leather products | 0,6 | 90,4 | 95,1 | 5,2 | 0,0 | 3 889 | 4 284 | 10,2 | 395 |
| -Footwear | 0,4 | 107,3 | 106,4 | -0,8 | 0,0 | 3 663 | 3 793 | 3,5 | 130 |
| Wood and wood products, paper, publishing and printing | 10,2 | 96,6 | 97,8 | 1,2 | 0,1 | 106 469 | 111 068 | 4,3 | 4 599 |
| -Sawmilling and planing of wood | 0,7 | 84,0 | 86,8 | 3,3 | 0,0 | 7 813 | 8 320 | 6,5 | 507 |
| -Products of wood | 1,3 | 87,7 | 88,5 | 0,9 | 0,0 | 14 992 | 15 604 | 4,1 | 612 |
| -Paper and paper products | 3,8 | 113,3 | 111,2 | -1,9 | -0,1 | 47 058 | 48 604 | 3,3 | 1 546 |
| -Publishing | 1,9 | 81,1 | 87,0 | 7,3 | 0,1 | 15 802 | 17 016 | 7,7 | 1 214 |
| -Printing, recorded media | 2,5 | 90,6 | 93,0 | 2,6 | 0,1 | 20 804 | 21 524 | 3,5 | 720 |
| Petroleum, chemical products, rubber and plastic products | 22,1 | 111,3 | 112,9 | 1,4 | 0,4 | 280 738 | 326 935 | 16,5 | 46 197 |
| -Coke, petroleum products and nuclear fuel | 8,5 | 92,8 | 88,7 | -4,4 | -0,3 | 96 580 | 125 519 | 30,0 | 28 939 |
| -Basic chemicals | 4,5 | 126,2 | 131,4 | 4,1 | 0,2 | 60 460 | 68 789 | 13,8 | 8 329 |
| -Other chemical products | 5,3 | 117,2 | 121,7 | 3,8 | 0,2 | 69 496 | 73 177 | 5,3 | 3 681 |
| -Rubber products | 1,0 | 82,5 | 96,8 | 17,3 | 0,1 | 12 022 | 14 614 | 21,6 | 2 592 |
| -Plastic products | 2,7 | 143,4 | 146,9 | 2,4 | 0,1 | 42 178 | 44 836 | 6,3 | 2 658 |
| Glass and non-metallic mineral products | 4,8 | 93,9 | 96,4 | 2,7 | 0,1 | 40 233 | 42 456 | 5,5 | 2 223 |
| -Glass and glass products | 1,0 | 120,7 | 115,4 | -4,4 | -0,1 | 6 780 | 7 028 | 3,7 | 248 |
| -Non-metallic mineral products | 3,8 | 87,2 | 91,7 | 5,2 | 0,2 | 33 454 | 35 428 | 5,9 | 1 974 |
| Basic iron and steel, non-ferrous metal products, metal products and machinery | 22,9 | 89,3 | 91,8 | 2,8 | 0,6 | 283 445 | 306 413 | 8,1 | 22 968 |
| -Basic iron and steel products | 7,7 | 80,1 | 78,4 | -2,1 | -0,1 | 94 330 | 97 802 | 3,7 | 3 472 |
| -Non-ferrous metal products | 3,4 | 100,3 | 109,2 | 8,9 | 0,3 | 50 105 | 61 809 | 23,4 | 11 704 |
| -Structural metal products | 2,0 | 92,9 | 89,9 | -3,2 | -0,1 | 26 009 | 27 385 | 5,3 | 1 376 |
| -Other fabricated metal products | 3,8 | 106,4 | 112,0 | 5,3 | 0,2 | 45 003 | 47 606 | 5,8 | 2 603 |
| -General purpose machinery | 2,4 | 70,1 | 72,6 | 3,6 | 0,1 | 28 249 | 29 653 | 5,0 | 1 404 |
| -Special purpose machinery | 3,1 | 89,5 | 95,1 | 6,3 | 0,2 | 30 812 | 33 021 | 7,2 | 2 209 |
| -Household appliances | 0,6 | 98,4 | 101,2 | 2,8 | 0,0 | 8 937 | 9 137 | 2,2 | 200 |
| Electrical machinery | 2,5 | 127,7 | 130,3 | 2,0 | 0,1 | 39 094 | 41 577 | 6,4 | 2 483 |
| Radio, television and communication apparatus and professional equipment | 1,1 | 94,6 | 105,9 | 11,9 | 0,1 | 13 829 | 15 336 | 10,9 | 1 507 |
| -Radio, television and communication apparatus | 0,4 | 93,1 | 104,2 | 11,9 | 0,0 | 6 843 | 7 679 | 12,2 | 836 |
| -Professional equipment | 0,7 | 95,7 | 107,0 | 11,8 | 0,1 | 6 986 | 7 658 | 9,6 | 672 |
| Motor vehicles, parts and accessories and other transport equipment | 10,9 | 95,7 | 103,1 | 7,7 | 0,8 | 161 651 | 173 456 | 7,3 | 11 805 |
| -Motor vehicles | 4,9 | 85,5 | 96,5 | 12,9 | 0,5 | 82 269 | 85 808 | 4,3 | 3 539 |
| -Bodies for motor vehicles, trailers and semi-trailers | 0,5 | 118,9 | 126,1 | 6,1 | 0,0 | 7 611 | 8 244 | 8,3 | 633 |
| -Parts and accessories | 4,7 | 100,2 | 104,8 | 4,6 | 0,2 | 56 427 | 62 847 | 11,4 | 6 420 |
| -Other transport equipment | 0,9 | 115,0 | 117,4 | 2,1 | 0,0 | 15 343 | 16 556 | 7,9 | 1 213 |
| Furniture and other manufacturing division | 5,2 | 91,8 | 92,9 | 1,2 | 0,1 | 54 874 | 59 112 | 7,7 | 4 238 |
| -Furniture | 1,3 | 92,1 | 93,9 | 2,0 | 0,0 | 10 640 | 11 591 | 8,9 | 951 |
| -Other manufacturing groups | 3,9 | 91,7 | 92,6 | 1,0 | 0,0 | 44 235 | 47 521 | 7,4 | 3 286 |
| Total | 100,0 | 100,9 | 103,4 | 2,5 | 2,5 | 1 268 166 | 1 386 043 | 9,3 | 117 877 |

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 updating its BR, based on units registered for value added tax (VAT) and income tax (IT), obtained from the South African Revenue Service (SARS).
- Purpose of the survey**
- 5 The results of the monthly manufacturing production and sales survey are used to calculate indices of the physical volume of manufacturing production. These indices provide an indicator of the real level of manufacturing activity in the economy. They are used in monitoring the state of the economy and formulation of economic policy. They are also important inputs to estimation of the gross domestic product (GDP).
- Special Data Dissemination Standard of the IMF**
- 6 The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.
- Scope of the survey**
- 7 This survey covers manufacturing enterprises, i.e. those conducting activities in -
 - the manufacturing, processing, making or packing of products;
 - the slaughtering of animals, including poultry; and
 - installation, assembly, completion, repair and related work.
- Classification**
- 8 The 1993 edition of the *Standard Industrial Classification of all Economic Activities (SIC)*, Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 *International Standard Industrial Classification of all Economic Activities (ISIC)* with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two digit) and major group (three digit) level.
- Collection rate**
- 9 The preliminary collection rate for the survey on manufacturing production and sales for December 2011 was 89,1%. Improved collection rate for November 2011 was 93,0%.
- Statistical unit**
- 10 The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

Survey methodology and design

- 11** The survey is conducted monthly. Questionnaires are sent to a sample of 3 029 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 3 029 enterprises, which was drawn in April 2011 from a population then of 51 805 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
- 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 2011, 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 2011).

Seasonal adjustment

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

- Trend cycle** 18 The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Programme is used for smoothing seasonally adjusted estimates to estimates of the underlying trend cycle.
- Reliability of estimates** 19 Data presented in this publication are based on information obtained from a sample and are, therefore, subject to sampling variability; that is, they may differ from the figures that would have been produced if the data had been obtained from all enterprises in the manufacturing industry in South Africa. Estimates are subject to sampling and non-sampling errors.
- 20 Inaccuracies may occur because of imperfections in reporting by enterprises and errors made in the collection and processing of the data. Inaccuracies of this kind are referred to as non-sampling errors. Every effort is made to minimise non-sampling errors by careful design of questionnaires, testing them in pilot studies, editing reported data and implementing efficient operating procedures. Fluctuations may occur in consecutive months as a result of seasonal and economic factors.
- Revised figures** 21 Revised figures are due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures are indicated in the relevant tables. Data are edited at the enterprise level.
- Related publications** 22 Users may also wish to refer to the following publications available from Stats SA -
- *Bulletin of Statistics* issued quarterly.
 - *SA Statistics* issued annually.
- Rounding-off of figures** 23 Where necessary, the figures in the tables have been rounded off to the nearest digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.
- Pre-release policy** 24 Stats SA's pre-release policy may be inspected at its website, 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 | 15 000 000 |
| Small | 15 000 001 | 39 000 000 |
| Medium | 39 000 001 | 153 000 000 |
| Large | 153 000 001 | |

Glossary

| | |
|---|--|
| Enterprise | 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. |
| Index of physical volume of manufacturing production | 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. |
| Industry | 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). |
| Intermediate consumption | Intermediate consumption includes - <ul style="list-style-type: none">• purchases and transfers-in of materials;• payments to other establishments for work done;• other direct factory costs;• rent and leasing paid;• head office charges;• royalties, copyright, trade names and patent rights paid;• advertising;• insurance premiums;• services; and• secretarial and administrative fees. |
| Output | Output is the aggregate value of goods manufactured and work done and includes - <ul style="list-style-type: none">• sales and transfers-out of own manufactures, factory waste and stocks of factored goods;• repairs;• installation, erection and assembly;• sundry trading revenue;• sales of factored goods minus purchases of factored goods;• rent and leasing received;• royalties received;• difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods;• head office charges; and• other revenue. Output excludes excise and customs duty paid. |
| Value added | 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. |
| Sales | 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. |
| Turnover | Turnover refers to - <ul style="list-style-type: none">• the value of sales and transfers out of all own manufactured products/articles;• amounts received for work done; and• amounts received for services rendered. |

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 | Weights according to the 2001 LSS of the manufacturing industry | Weights according to the 2005 LSS of the manufacturing industry |
|---|---|---|---|
| | 1998 – 2000 | 2001 – 2004 | 2005 – 2011 |
| Food and beverages | 15,3 | 16,4 | 15,4 |
| -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 |
| Textiles, clothing, leather and footwear | 7,8 | 5,4 | 4,9 |
| -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 |
| Wood and wood products, paper, publishing and printing | 11,4 | 11,0 | 10,2 |
| -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 |
| Petroleum, chemical products, rubber and plastic products | 19,3 | 22,5 | 22,1 |
| -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 |
| Glass and non-metallic mineral products | 4,5 | 3,9 | 4,8 |
| -Glass and glass products | 1,0 | 1,1 | 1,0 |
| -Non-metallic mineral products | 3,5 | 2,9 | 3,8 |
| Basic iron and steel, non-ferrous metal products, metal products and machinery | 23,6 | 22,4 | 22,9 |
| -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 |
| Electrical machinery | 3,4 | 2,7 | 2,5 |
| Radio, television and communication apparatus and professional equipment | 1,5 | 1,3 | 1,1 |
| -Radio, television and communication apparatus | 1,0 | 0,7 | 0,4 |
| -Professional equipment | 0,5 | 0,6 | 0,7 |
| Motor vehicles, parts and accessories and other transport equipment | 9,1 | 8,6 | 10,9 |
| -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 |
| Other manufacturing divisions | 4,1 | 5,8 | 5,2 |
| -Furniture | 1,6 | 1,6 | 1,3 |
| -Other manufacturing groups | 2,6 | 4,2 | 3,9 |
| Total | 100,0 | 100,0 | 100,0 |

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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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