

## STATISTICAL RELEASE

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# Manufacturing: Production and sales (Preliminary)

May 2017

This is the first publication with weights based on national accounts value added data up to 2015 and base year 2015=100. Previously, the manufacturing divisions and total manufacturing production indices were calculated using weights based on national accounts value added data up to 2013 with the base year 2010=100.

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## Production: results for May 2017

**Table A – Key growth rates in the volume of manufacturing production**

|                                                    | <b>Dec-16</b> | <b>Jan-17</b> | <b>Feb-17</b> | <b>Mar-17</b> | <b>Apr-17</b> | <b>May-17</b> |
|----------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Year-on-year % change, unadjusted                  | -2,2          | 0,6           | -3,7          | 0,3           | -4,2          | -0,8          |
| Month-on-month % change, seasonally adjusted       | -0,1          | -0,4          | -0,4          | -0,6          | 2,3           | -0,3          |
| 3-month % change, seasonally adjusted <sup>1</sup> | -1,0          | -0,4          | -0,8          | -0,8          | -0,3          | 0,4           |

<sup>1</sup> Percentage change between the previous 3 months and the 3 months ending in the month indicated.

Manufacturing production decreased by 0,8% in May 2017 compared with May 2016. The largest year-on-year contributions were made in the following divisions:

- petroleum, chemical products, rubber and plastic products (-8,4% and contributing -2,1 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (5,2% and contributing 1,0 percentage point); and
- food and beverages (3,5% and contributing 0,9 of a percentage point) – see Tables 5 and 6.

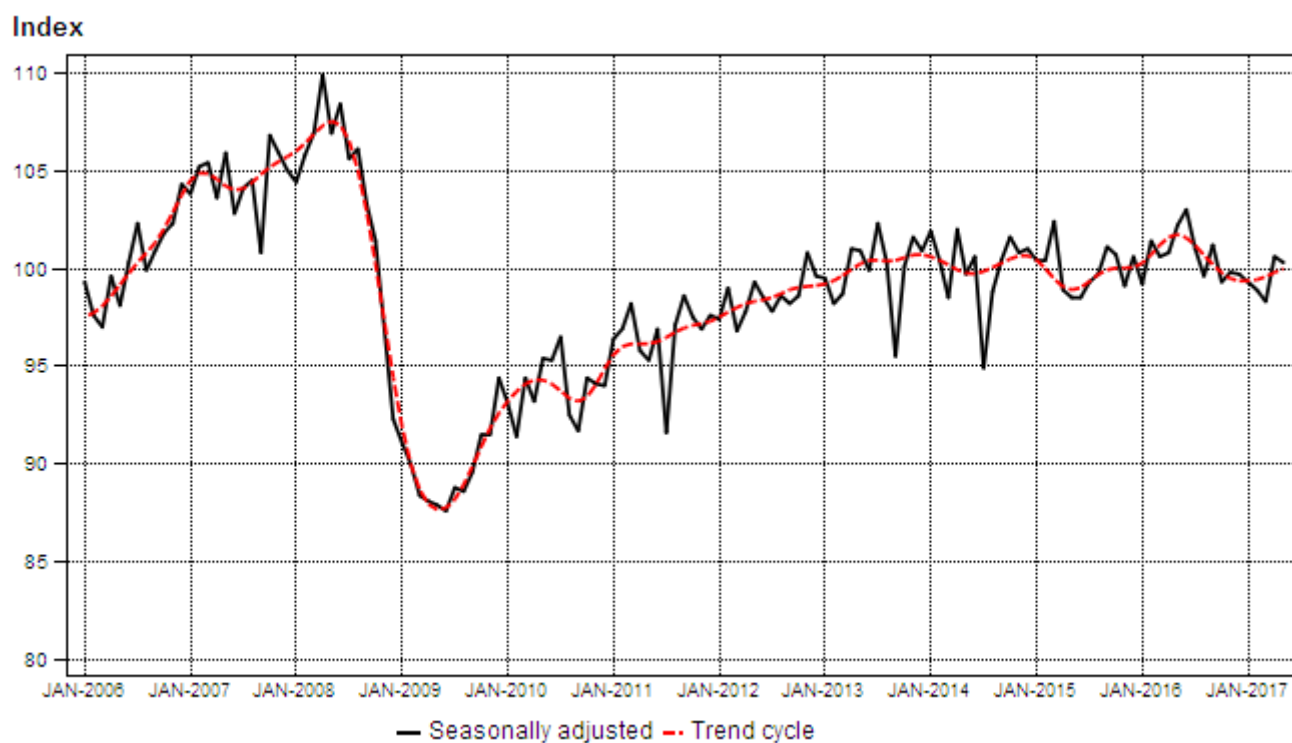
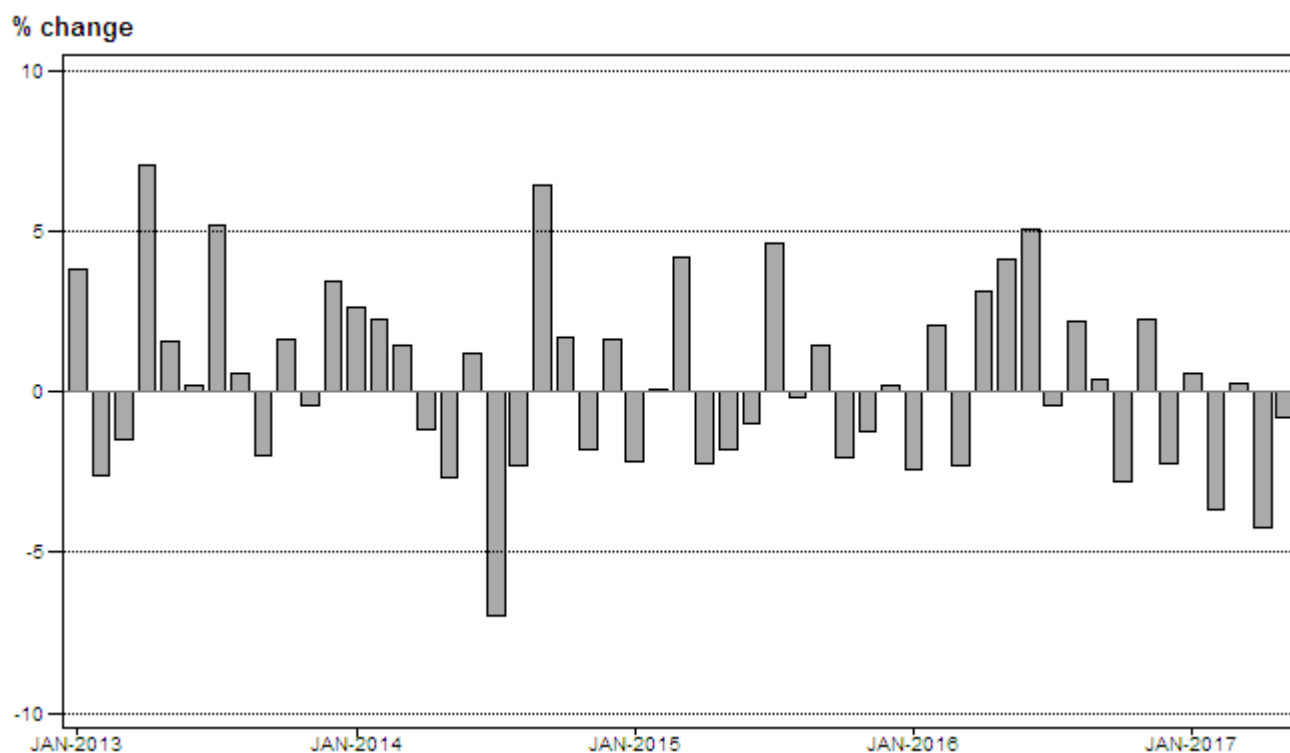
Seasonally adjusted manufacturing production decreased by 0,3% in May 2017 compared with April 2017. This followed month-on-month changes of 2,3% in April 2017 and -0,6% in March 2017 – see Table A.

Seasonally adjusted manufacturing production increased by 0,4% in the three months ended May 2017 compared with the previous three months. Five of the ten manufacturing divisions reported positive growth rates over this period. The largest contributors were the food and beverages division (2,6% and contributing 0,7 of a percentage point) and the petroleum, chemical products, rubber and plastic products division (-1,8% and contributing -0,4 of a percentage point) – see Table B.

**Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2015=100)**

| Manufacturing division and major group                                                | * Weights    | Dec 2016 – Feb 2017 | Mar – May 2017 | % change between Dec 2016 – Feb 2017 and Mar – May 2017 | Contribution (% points) to the total % change |
|---------------------------------------------------------------------------------------|--------------|---------------------|----------------|---------------------------------------------------------|-----------------------------------------------|
| <b>Food and beverages</b>                                                             | <b>25,15</b> | <b>98,5</b>         | <b>101,1</b>   | <b>2,6</b>                                              | <b>0,7</b>                                    |
| Meat, fish, fruit, etc.                                                               | 6,39         | 99,7                | 98,3           | -1,4                                                    | -0,1                                          |
| Dairy products                                                                        | 1,89         | 95,8                | 100,1          | 4,5                                                     | 0,1                                           |
| Grain mill products                                                                   | 2,86         | 95,4                | 95,0           | -0,4                                                    | 0,0                                           |
| Other food products                                                                   | 7,62         | 101,7               | 102,4          | 0,7                                                     | 0,1                                           |
| Beverages                                                                             | 6,39         | 95,6                | 105,4          | 10,3                                                    | 0,6                                           |
| <b>Textiles, clothing, leather and footwear</b>                                       | <b>3,28</b>  | <b>96,2</b>         | <b>95,3</b>    | <b>-0,9</b>                                             | <b>0,0</b>                                    |
| Textiles                                                                              | 0,83         | 102,6               | 106,2          | 3,5                                                     | 0,0                                           |
| Other textile products                                                                | 0,41         | 100,0               | 98,4           | -1,6                                                    | 0,0                                           |
| Knitted, crocheted articles                                                           | 0,09         | 97,5                | 93,1           | -4,5                                                    | 0,0                                           |
| Wearing apparel                                                                       | 1,10         | 88,6                | 89,2           | 0,7                                                     | 0,0                                           |
| Leather and leather products                                                          | 0,49         | 89,3                | 89,1           | -0,2                                                    | 0,0                                           |
| Footwear                                                                              | 0,36         | 109,6               | 94,8           | -13,5                                                   | -0,1                                          |
| <b>Wood and wood products, paper, publishing and printing</b>                         | <b>11,62</b> | <b>101,7</b>        | <b>101,0</b>   | <b>-0,7</b>                                             | <b>-0,1</b>                                   |
| Sawmilling and planing of wood                                                        | 1,71         | 109,1               | 110,4          | 1,2                                                     | 0,0                                           |
| Products of wood                                                                      | 2,37         | 99,4                | 99,6           | 0,2                                                     | 0,0                                           |
| Paper and paper products                                                              | 4,33         | 100,4               | 100,3          | -0,1                                                    | 0,0                                           |
| Publishing                                                                            | 1,49         | 98,2                | 94,3           | -4,0                                                    | -0,1                                          |
| Printing, recorded media                                                              | 1,72         | 104,0               | 101,3          | -2,6                                                    | 0,0                                           |
| <b>Petroleum, chemical products, rubber and plastic products</b>                      | <b>24,01</b> | <b>100,4</b>        | <b>98,6</b>    | <b>-1,8</b>                                             | <b>-0,4</b>                                   |
| Coke, petroleum products and nuclear fuel                                             | 9,29         | 100,1               | 94,1           | -6,0                                                    | -0,6                                          |
| Basic chemicals                                                                       | 4,36         | 100,1               | 102,3          | 2,2                                                     | 0,1                                           |
| Other chemical products                                                               | 6,16         | 102,5               | 104,3          | 1,8                                                     | 0,1                                           |
| Rubber products                                                                       | 1,34         | 99,9                | 101,3          | 1,4                                                     | 0,0                                           |
| Plastic products                                                                      | 2,86         | 97,2                | 94,2           | -3,1                                                    | -0,1                                          |
| <b>Glass and non-metallic mineral products</b>                                        | <b>3,90</b>  | <b>92,8</b>         | <b>97,5</b>    | <b>5,1</b>                                              | <b>0,2</b>                                    |
| Glass and glass products                                                              | 0,74         | 98,2                | 104,7          | 6,6                                                     | 0,0                                           |
| Non-metallic mineral products                                                         | 3,16         | 91,6                | 95,8           | 4,6                                                     | 0,1                                           |
| <b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b> | <b>18,72</b> | <b>99,9</b>         | <b>101,4</b>   | <b>1,5</b>                                              | <b>0,3</b>                                    |
| Basic iron and steel products                                                         | 3,44         | 107,5               | 111,4          | 3,6                                                     | 0,1                                           |
| Non-ferrous metal products                                                            | 2,73         | 103,9               | 103,4          | -0,5                                                    | 0,0                                           |
| Structural metal products                                                             | 1,86         | 87,8                | 89,5           | 1,9                                                     | 0,0                                           |
| Other fabricated metal products                                                       | 3,86         | 100,4               | 102,5          | 2,1                                                     | 0,1                                           |
| General purpose machinery                                                             | 2,51         | 98,8                | 97,0           | -1,8                                                    | 0,0                                           |
| Special purpose machinery                                                             | 3,51         | 98,3                | 101,4          | 3,2                                                     | 0,1                                           |
| Household appliances                                                                  | 0,81         | 90,9                | 87,6           | -3,6                                                    | 0,0                                           |
| <b>Electrical machinery</b>                                                           | <b>1,65</b>  | <b>95,4</b>         | <b>89,6</b>    | <b>-6,1</b>                                             | <b>-0,1</b>                                   |
| <b>Radio, television and communication apparatus and professional equipment</b>       | <b>1,61</b>  | <b>104,8</b>        | <b>113,4</b>   | <b>8,2</b>                                              | <b>0,1</b>                                    |
| Radio, television and communication                                                   | 0,93         | 106,5               | 116,2          | 9,1                                                     | 0,1                                           |
| Professional equipment                                                                | 0,68         | 102,4               | 109,6          | 7,0                                                     | 0,0                                           |
| <b>Motor vehicles, parts and accessories and other transport equipment</b>            | <b>6,86</b>  | <b>96,9</b>         | <b>97,7</b>    | <b>0,8</b>                                              | <b>0,1</b>                                    |
| Motor vehicles                                                                        | 2,43         | 94,1                | 94,3           | 0,2                                                     | 0,0                                           |
| Bodies for motor vehicles, trailers and semi-                                         | 0,46         | 103,9               | 100,1          | -3,7                                                    | 0,0                                           |
| Parts and accessories                                                                 | 2,76         | 102,0               | 102,6          | 0,6                                                     | 0,0                                           |
| Other transport equipment                                                             | 1,21         | 88,5                | 92,8           | 4,9                                                     | 0,1                                           |
| <b>Furniture and other manufacturing</b>                                              | <b>3,20</b>  | <b>100,9</b>        | <b>92,2</b>    | <b>-8,6</b>                                             | <b>-0,3</b>                                   |
| Furniture                                                                             | 1,09         | 99,1                | 95,9           | -3,2                                                    | 0,0                                           |
| Other manufacturing groups                                                            | 2,11         | 101,9               | 90,4           | -11,3                                                   | -0,2                                          |
| <b>Total</b>                                                                          | <b>100</b>   | <b>99,3</b>         | <b>99,7</b>    | <b>0,4</b>                                              | <b>0,4</b>                                    |

\* Revised due to reweighting. See note on page 6.

**Figure 1 – Volume of manufacturing production (Base: 2015=100)****Figure 2 – Volume of manufacturing production (Base: 2015=100): year-on-year percentage change**

## Sales: results for May 2017

**Table C – Key growth rates in manufacturing sales at current prices**

|                                                    | Dec-16 | Jan-17 | Feb-17 | Mar-17 | Apr-17 | May-17 |
|----------------------------------------------------|--------|--------|--------|--------|--------|--------|
| Year-on-year % change, unadjusted                  | 4,8    | 7,6    | 1,5    | 7,8    | -0,8   | 3,5    |
| Month-on-month % change, seasonally adjusted       | -1,3   | 1,2    | -1,3   | 0,9    | 0,9    | 1,1    |
| 3-month % change, seasonally adjusted <sup>1</sup> | -0,1   | 1,0    | 0,1    | 0,6    | 0,0    | 1,4    |

<sup>1</sup> Percentage change between the previous 3 months and the 3 months ending in the month indicated.

Seasonally adjusted manufacturing sales increased by 1,1% in May 2017 compared with April 2017. This followed month-on-month changes of 0,9% in April 2017 and 0,9% in March 2017 – see Table C.

**Table D – Seasonally adjusted manufacturing sales at current prices for the latest three months by division**

| Manufacturing division                                                         | Dec 2016 –<br>Feb 2017<br>(R million) | Mar – May<br>2017<br>(R million) | % change between<br>Dec 2016 –<br>Feb 2017<br>and<br>Mar – May<br>2017 | Contribution<br>(% points)<br>to the<br>total<br>% change |
|--------------------------------------------------------------------------------|---------------------------------------|----------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------|
| Food and beverages                                                             | 122 398                               | 124 668                          | 1,9                                                                    | 0,5                                                       |
| Textiles, clothing, leather and footwear                                       | 13 832                                | 13 520                           | -2,3                                                                   | -0,1                                                      |
| Wood and wood products, paper, publishing and printing                         | 39 013                                | 39 065                           | 0,1                                                                    | 0,0                                                       |
| Petroleum, chemical products, rubber and plastic products                      | 111 962                               | 110 264                          | -1,5                                                                   | -0,3                                                      |
| Glass and non-metallic mineral products                                        | 13 620                                | 14 577                           | 7,0                                                                    | 0,2                                                       |
| Basic iron and steel, non-ferrous metal products, metal products and machinery | 108 458                               | 112 515                          | 3,7                                                                    | 0,8                                                       |
| Electrical machinery                                                           | 14 710                                | 13 620                           | -7,4                                                                   | -0,2                                                      |
| Radio, television and communication apparatus and professional equipment       | 6 864                                 | 7 439                            | 8,4                                                                    | 0,1                                                       |
| Motor vehicles, parts and accessories and other transport equipment            | 61 330                                | 63 736                           | 3,9                                                                    | 0,5                                                       |
| Furniture and other manufacturing                                              | 17 572                                | 17 720                           | 0,8                                                                    | 0,0                                                       |
| <b>Total</b>                                                                   | <b>509 757</b>                        | <b>517 121</b>                   | <b>1,4</b>                                                             | <b>1,4</b>                                                |

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## Note – Rebasing and reweighting of manufacturing production

### Introduction

Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry covering manufacturing enterprises. This statistical release contains monthly indices of the physical volume of manufacturing production and monthly sales of manufactured products. The results of the manufacturing production indices published today contain changes related to rebasing and reweighting.

### Rebasing

The base year is the reference point of an index and is usually set at 100. The new index of manufacturing production is now referenced to 2015=100. To convert the base year from reference year 2010 to 2015, the previous individual indices (2010=100) were divided by their averages for 2015 and multiplied by 100. The rebasing of indices was done on all major groups of manufacturing and aggregated to the manufacturing divisions. The rebasing exercise alone did not have any significant effect on the manufacturing trends.

### Reweighting

New high-level weights for the manufacturing groups and divisions were calculated based on national accounts value added data up to 2015. Previously, the weights were calculated from national accounts value added data up to 2013. The new and old weights are shown in Table E below and in more detail in Table G on page 21. With effect from January 2015, the high-level weights are calculated as a three-year average of value added (in this case value added from 2013, 2014 and 2015). The high-level weights for 2014 are the average of value added for 2013 and 2014 (previous practice would have required value added for 2014 only). Historically, changes in manufacturing weights have been small, and the use of a moving average will bring even greater stability to the weights.

The impact of rebasing and reweighting the index of manufacturing production is illustrated in Tables E and F and Figure 3.

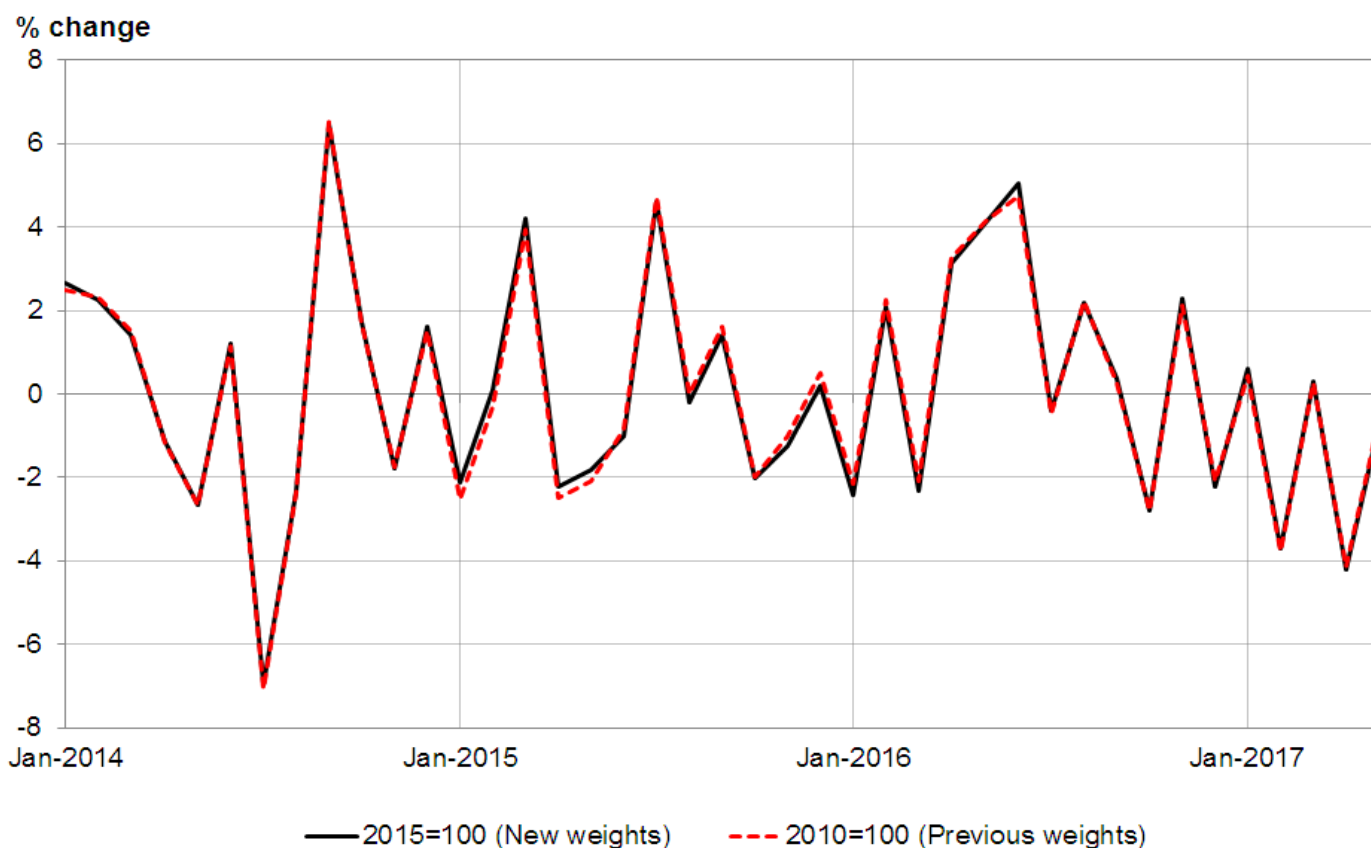
**Table E – Comparison of manufacturing production indices based on previous and new base year and weights**

| Manufacturing divisions                                                  | Previous weights based on value added for 2013 | New weights based on value added for 2013 - 2015 | Year to date annual % change for 2017 <sup>1</sup> |                               | Difference in results (% points) |
|--------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------|----------------------------------------------------|-------------------------------|----------------------------------|
|                                                                          |                                                |                                                  | Previous weights<br>Base: 2010=100                 | New weights<br>Base: 2015=100 |                                  |
| Food and beverages                                                       | 24,53                                          | 25,15                                            | 0,6                                                | 0,3                           | -0,3                             |
| Textiles, clothing, leather and footwear                                 | 3,34                                           | 3,28                                             | -3,7                                               | -3,3                          | 0,4                              |
| Wood and wood products, paper, publishing and printing                   | 12,62                                          | 11,62                                            | -2,4                                               | -2,5                          | -0,1                             |
| Petroleum, chemical products, rubber and plastic products                | 23,58                                          | 24,01                                            | -5,2                                               | -5,2                          | 0,0                              |
| Glass and non-metallic mineral products                                  | 4,15                                           | 3,90                                             | -4,2                                               | -4,3                          | -0,1                             |
| Basic iron and steel, non-ferrous metal and metal products and machinery | 18,77                                          | 18,72                                            | 2,8                                                | 3,0                           | 0,2                              |
| Electrical machinery                                                     | 1,67                                           | 1,65                                             | -11,7                                              | -11,0                         | 0,7                              |
| Radio, television and communication apparatus and professional equipment | 1,55                                           | 1,61                                             | 4,2                                                | 5,1                           | 0,9                              |
| Motor vehicles, parts and accessories and other transport equipment      | 6,85                                           | 6,86                                             | -3,6                                               | -3,4                          | 0,2                              |
| Furniture and other manufacturing division                               | 2,94                                           | 3,20                                             | -0,1                                               | -0,5                          | -0,4                             |
| <b>Total manufacturing</b>                                               | <b>100</b>                                     | <b>100</b>                                       | <b>-1,7</b>                                        | <b>-1,6</b>                   | <b>0,1</b>                       |

<sup>1</sup> Up to May 2017.

**Table F – Annual percentage change in manufacturing production indices based on previous and new base year and weights**

| Manufacturing divisions                                                  | Previous weights (Base: 2010=100) |             |            | New weights (Base 2015=100) |            |            |
|--------------------------------------------------------------------------|-----------------------------------|-------------|------------|-----------------------------|------------|------------|
|                                                                          | 2014                              | 2015        | 2016       | 2014                        | 2015       | 2016       |
| Food and beverages                                                       | 2,2                               | 2,7         | -0,7       | 2,2                         | 2,8        | -0,7       |
| Textiles, clothing, leather and footwear                                 | 0,6                               | -0,6        | -1,8       | 0,8                         | -0,7       | -1,4       |
| Wood and wood products, paper, publishing and printing                   | 0,9                               | -0,6        | 3,4        | 0,9                         | -0,6       | 3,2        |
| Petroleum, chemical products, rubber and plastic products                | 0,1                               | -0,3        | 3,9        | 0,0                         | -0,2       | 4,0        |
| Glass and non-metallic mineral products                                  | -5,9                              | -1,3        | -1,7       | -5,8                        | -1,5       | -1,8       |
| Basic iron and steel, non-ferrous metal and metal products and machinery | -3,1                              | -3,2        | -1,7       | -3,2                        | -3,3       | -1,7       |
| Electrical machinery                                                     | -2,1                              | 6,5         | -1,9       | -2,1                        | 6,3        | -1,9       |
| Radio, television and communication apparatus and professional equipment | 9,2                               | -4,6        | 7,1        | 9,5                         | -4,9       | 6,7        |
| Motor vehicles, parts and accessories and other transport equipment      | -0,7                              | 3,9         | -0,3       | -0,8                        | 3,8        | 0,1        |
| Furniture and other manufacturing                                        | 3,1                               | -7,2        | -2,9       | 2,6                         | -7,1       | -2,3       |
| <b>Total manufacturing</b>                                               | <b>0,1</b>                        | <b>-0,1</b> | <b>0,8</b> | <b>0,1</b>                  | <b>0,0</b> | <b>0,7</b> |

**Figure 3 – Comparison of the total manufacturing production growth rate based on previous and new base year and weights: year-on-year percentage change**

## Tables

**Table 1 – Index of the volume of manufacturing production (Base: 2015=100)**

| Month        | 2011 *      | 2012 *      | 2013 *      | 2014 *       | 2015 *       | 2016 *       | 2017 <sup>1</sup> * |
|--------------|-------------|-------------|-------------|--------------|--------------|--------------|---------------------|
| Jan          | 81,4        | 83,4        | 86,6        | 88,9         | 87,0         | 84,9         | 85,4                |
| Feb          | 92,3        | 95,9        | 93,4        | 95,5         | 95,6         | 97,6         | 94,0                |
| Mar          | 102,6       | 99,7        | 98,2        | 99,6         | 103,8        | 101,4        | 101,7               |
| Apr          | 87,7        | 89,3        | 95,6        | 94,5         | 92,4         | 95,3         | 91,3                |
| May          | 95,3        | 100,3       | 101,9       | 99,2         | 97,4         | 101,4        | 100,6               |
| Jun          | 97,8        | 98,4        | 98,6        | 99,8         | 98,8         | 103,8        |                     |
| Jul          | 92,8        | 99,6        | 104,8       | 97,5         | 102,0        | 101,6        |                     |
| Aug          | 101,2       | 103,2       | 103,8       | 101,4        | 101,2        | 103,4        |                     |
| Sep          | 103,6       | 101,1       | 99,1        | 105,5        | 107,0        | 107,4        |                     |
| Oct          | 106,0       | 109,5       | 111,3       | 113,2        | 110,9        | 107,8        |                     |
| Nov          | 109,4       | 113,6       | 113,1       | 111,1        | 109,7        | 112,2        |                     |
| Dec          | 87,7        | 89,3        | 92,4        | 93,9         | 94,1         | 92,0         |                     |
| <b>Total</b> | <b>96,5</b> | <b>98,6</b> | <b>99,9</b> | <b>100,0</b> | <b>100,0</b> | <b>100,7</b> |                     |

<sup>1</sup> The latest three months are preliminary.

\* Revised due to rebasing and reweighting. See note on page 6.

**Table 2 – Year-on-year percentage change in the volume of manufacturing production**

| Month        | 2012       | 2013       | 2014       | 2015       | 2016       | 2017 | 2017<br>year-to-date |
|--------------|------------|------------|------------|------------|------------|------|----------------------|
| Jan          | 2,5        | 3,8        | 2,7        | -2,1       | -2,4       | 0,6  | 0,6                  |
| Feb          | 3,9        | -2,6       | 2,2        | 0,1        | 2,1        | -3,7 | -1,7                 |
| Mar          | -2,8       | -1,5       | 1,4        | 4,2        | -2,3       | 0,3  | -1,0                 |
| Apr          | 1,8        | 7,1        | -1,2       | -2,2       | 3,1        | -4,2 | -1,8                 |
| May          | 5,2        | 1,6        | -2,6       | -1,8       | 4,1        | -0,8 | -1,6                 |
| Jun          | 0,6        | 0,2        | 1,2        | -1,0       | 5,1        |      |                      |
| Jul          | 7,3        | 5,2        | -7,0       | 4,6        | -0,4       |      |                      |
| Aug          | 2,0        | 0,6        | -2,3       | -0,2       | 2,2        |      |                      |
| Sep          | -2,4       | -2,0       | 6,5        | 1,4        | 0,4        |      |                      |
| Oct          | 3,3        | 1,6        | 1,7        | -2,0       | -2,8       |      |                      |
| Nov          | 3,8        | -0,4       | -1,8       | -1,3       | 2,3        |      |                      |
| Dec          | 1,8        | 3,5        | 1,6        | 0,2        | -2,2       |      |                      |
| <b>Total</b> | <b>2,2</b> | <b>1,3</b> | <b>0,1</b> | <b>0,0</b> | <b>0,7</b> |      |                      |

**Table 3 – Seasonally adjusted volume of manufacturing production**

| Month | Index (Base: 2015=100) |       |       |       | Month-on-month % change |      |      |      |
|-------|------------------------|-------|-------|-------|-------------------------|------|------|------|
|       | 2014                   | 2015  | 2016  | 2017  | 2014                    | 2015 | 2016 | 2017 |
| Jan   | 101,9                  | 100,4 | 99,2  | 99,3  | 1,0                     | -0,6 | -1,4 | -0,4 |
| Feb   | 100,4                  | 100,4 | 101,4 | 98,9  | -1,5                    | 0,0  | 2,2  | -0,4 |
| Mar   | 98,5                   | 102,4 | 100,6 | 98,3  | -1,9                    | 2,0  | -0,8 | -0,6 |
| Apr   | 102,0                  | 98,9  | 100,8 | 100,6 | 3,6                     | -3,4 | 0,2  | 2,3  |
| May   | 99,7                   | 98,5  | 102,2 | 100,3 | -2,3                    | -0,4 | 1,4  | -0,3 |
| Jun   | 100,6                  | 98,5  | 103,0 |       | 0,9                     | 0,0  | 0,8  |      |
| Jul   | 94,9                   | 99,3  | 101,0 |       | -5,7                    | 0,8  | -1,9 |      |
| Aug   | 98,8                   | 99,7  | 99,6  |       | 4,1                     | 0,4  | -1,4 |      |
| Sep   | 100,4                  | 101,1 | 101,2 |       | 1,6                     | 1,4  | 1,6  |      |
| Oct   | 101,6                  | 100,7 | 99,3  |       | 1,2                     | -0,4 | -1,9 |      |
| Nov   | 100,8                  | 99,1  | 99,8  |       | -0,8                    | -1,6 | 0,5  |      |
| Dec   | 101,0                  | 100,6 | 99,7  |       | 0,2                     | 1,5  | -0,1 |      |

**Table 4 – Index of the volume of manufacturing production by division and major group (Base: 2015=100)**

| Manufacturing division and major group                                                | *Weights     | * Dec-16     | * Jan-17    | * Feb-17     | <sup>1</sup> Mar-17 | <sup>1</sup> Apr-17 | <sup>1</sup> May-17 |
|---------------------------------------------------------------------------------------|--------------|--------------|-------------|--------------|---------------------|---------------------|---------------------|
| <b>Food and beverages</b>                                                             | <b>25,15</b> | <b>107,4</b> | <b>83,0</b> | <b>88,5</b>  | <b>96,3</b>         | <b>94,7</b>         | <b>102,2</b>        |
| Meat, fish, fruit, etc.                                                               | 6,39         | 104,7        | 84,0        | 92,9         | 101,3               | 94,0                | 102,4               |
| Dairy products                                                                        | 1,89         | 104,8        | 92,8        | 88,3         | 102,4               | 93,4                | 93,7                |
| Grain mill products                                                                   | 2,86         | 97,7         | 86,2        | 83,7         | 99,4                | 86,4                | 97,8                |
| Other food products                                                                   | 7,62         | 94,0         | 74,4        | 88,5         | 85,1                | 99,2                | 112,5               |
| Beverages                                                                             | 6,39         | 131,2        | 87,8        | 86,4         | 101,3               | 94,2                | 94,3                |
| <b>Textiles, clothing, leather and footwear</b>                                       | <b>3,28</b>  | <b>77,0</b>  | <b>72,3</b> | <b>95,2</b>  | <b>102,0</b>        | <b>89,3</b>         | <b>97,8</b>         |
| Textiles                                                                              | 0,83         | 69,0         | 82,9        | 107,8        | 117,3               | 97,6                | 118,2               |
| Other textile products                                                                | 0,41         | 74,7         | 81,9        | 96,9         | 104,2               | 91,1                | 103,4               |
| Knitted, crocheted articles                                                           | 0,09         | 62,8         | 77,7        | 96,6         | 102,7               | 93,0                | 111,9               |
| Wearing apparel                                                                       | 1,10         | 84,3         | 52,5        | 86,7         | 97,6                | 79,1                | 87,1                |
| Leather and leather products                                                          | 0,49         | 76,5         | 84,7        | 89,5         | 86,9                | 94,6                | 89,3                |
| Footwear                                                                              | 0,36         | 79,9         | 79,6        | 97,3         | 97,9                | 91,2                | 85,6                |
| <b>Wood and wood products, paper, publishing and printing</b>                         | <b>11,62</b> | <b>94,5</b>  | <b>86,3</b> | <b>97,2</b>  | <b>103,7</b>        | <b>88,8</b>         | <b>99,4</b>         |
| Sawmilling and planing of wood                                                        | 1,71         | 93,2         | 93,7        | 106,4        | 120,3               | 102,0               | 114,9               |
| Products of wood                                                                      | 2,37         | 80,8         | 75,5        | 97,1         | 102,4               | 92,3                | 100,7               |
| Paper and paper products                                                              | 4,33         | 98,4         | 91,4        | 95,8         | 106,7               | 88,1                | 96,8                |
| Publishing                                                                            | 1,49         | 99,9         | 84,1        | 91,3         | 89,0                | 78,7                | 87,4                |
| Printing, recorded media                                                              | 1,72         | 100,4        | 83,0        | 96,7         | 94,2                | 81,1                | 99,3                |
| <b>Petroleum, chemical products, rubber and plastic products</b>                      | <b>24,01</b> | <b>97,4</b>  | <b>97,8</b> | <b>92,6</b>  | <b>98,9</b>         | <b>92,0</b>         | <b>95,1</b>         |
| Coke, petroleum products and nuclear fuel                                             | 9,29         | 106,6        | 109,6       | 90,7         | 96,7                | 95,9                | 83,8                |
| Basic chemicals                                                                       | 4,36         | 94,8         | 97,3        | 88,6         | 92,3                | 91,9                | 104,8               |
| Other chemical products                                                               | 6,16         | 97,2         | 91,0        | 95,6         | 104,7               | 91,1                | 103,8               |
| Rubber products                                                                       | 1,34         | 67,7         | 85,0        | 107,4        | 116,0               | 86,8                | 108,1               |
| Plastic products                                                                      | 2,86         | 85,8         | 80,5        | 91,2         | 95,4                | 83,7                | 91,8                |
| <b>Glass and non-metallic mineral products</b>                                        | <b>3,90</b>  | <b>66,2</b>  | <b>70,8</b> | <b>81,7</b>  | <b>103,2</b>        | <b>85,1</b>         | <b>104,4</b>        |
| Glass and glass products                                                              | 0,74         | 92,2         | 89,2        | 84,5         | 93,5                | 89,6                | 106,1               |
| Non-metallic mineral products                                                         | 3,16         | 60,1         | 66,5        | 81,1         | 105,5               | 84,1                | 104,0               |
| <b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b> | <b>18,72</b> | <b>83,8</b>  | <b>83,5</b> | <b>100,1</b> | <b>111,0</b>        | <b>94,9</b>         | <b>105,4</b>        |
| Basic iron and steel products                                                         | 3,44         | 89,4         | 107,1       | 110,1        | 120,5               | 115,2               | 122,2               |
| Non-ferrous metal products                                                            | 2,73         | 96,2         | 96,6        | 100,3        | 111,4               | 104,6               | 103,6               |
| Structural metal products                                                             | 1,86         | 68,1         | 66,8        | 95,5         | 97,2                | 79,0                | 89,8                |
| Other fabricated metal products                                                       | 3,86         | 71,7         | 78,4        | 101,3        | 108,1               | 90,5                | 109,3               |
| General purpose machinery                                                             | 2,51         | 83,3         | 79,7        | 97,1         | 99,7                | 86,8                | 99,5                |
| Special purpose machinery                                                             | 3,51         | 92,5         | 68,9        | 96,5         | 123,5               | 89,1                | 102,2               |
| Household appliances                                                                  | 0,81         | 74,9         | 76,6        | 87,9         | 94,9                | 84,7                | 89,0                |
| <b>Electrical machinery</b>                                                           | <b>1,65</b>  | <b>78,7</b>  | <b>68,5</b> | <b>92,6</b>  | <b>102,9</b>        | <b>77,8</b>         | <b>92,3</b>         |
| <b>Radio, television and communication apparatus and professional equipment</b>       | <b>1,61</b>  | <b>104,4</b> | <b>76,4</b> | <b>101,7</b> | <b>111,5</b>        | <b>104,2</b>        | <b>104,5</b>        |
| Radio, television and communication apparatus                                         | 0,93         | 110,0        | 77,1        | 101,3        | 110,9               | 95,8                | 104,4               |
| Professional equipment                                                                | 0,68         | 96,9         | 75,5        | 102,3        | 112,2               | 115,6               | 104,7               |
| <b>Motor vehicles, parts and accessories and other transport equipment</b>            | <b>6,86</b>  | <b>62,2</b>  | <b>76,6</b> | <b>98,6</b>  | <b>110,0</b>        | <b>84,6</b>         | <b>103,7</b>        |
| Motor vehicles                                                                        | 2,43         | 48,2         | 67,2        | 95,8         | 101,9               | 78,1                | 106,5               |
| Bodies for motor vehicles, trailers and semi-trailers                                 | 0,46         | 73,8         | 68,9        | 107,3        | 110,7               | 92,5                | 103,8               |
| Parts and accessories                                                                 | 2,76         | 55,2         | 92,5        | 104,8        | 110,8               | 95,0                | 113,1               |
| Other transport equipment                                                             | 1,21         | 101,6        | 62,3        | 86,6         | 124,2               | 71,0                | 76,9                |
| <b>Furniture and other manufacturing</b>                                              | <b>3,20</b>  | <b>82,0</b>  | <b>81,7</b> | <b>100,0</b> | <b>79,4</b>         | <b>72,2</b>         | <b>100,8</b>        |
| Furniture                                                                             | 1,09         | 81,4         | 63,1        | 93,0         | 91,9                | 83,1                | 93,8                |
| Other manufacturing groups                                                            | 2,11         | 82,3         | 91,2        | 103,6        | 73,0                | 66,6                | 104,4               |
| <b>Total</b>                                                                          | <b>100</b>   | <b>92,0</b>  | <b>85,4</b> | <b>94,0</b>  | <b>101,7</b>        | <b>91,3</b>         | <b>100,6</b>        |

<sup>1</sup> The latest three months are preliminary.

\* Revised due to rebasing and reweighting. See note on page 6.

**Table 5 – Year-on-year percentage change in the volume of manufacturing production by division and major group (Base: 2015=100)**

| Manufacturing division and major group                                                | Dec-16      | Jan-17       | Feb-17       | Mar-17       | Apr-17       | May-17      |
|---------------------------------------------------------------------------------------|-------------|--------------|--------------|--------------|--------------|-------------|
| <b>Food and beverages</b>                                                             | <b>-6,6</b> | <b>1,0</b>   | <b>-4,1</b>  | <b>-0,3</b>  | <b>1,8</b>   | <b>3,5</b>  |
| Meat, fish, fruit, etc.                                                               | -6,4        | 2,8          | 6,1          | -1,1         | -1,1         | 0,0         |
| Dairy products                                                                        | -10,4       | -3,9         | -11,6        | -3,5         | -3,2         | 5,5         |
| Grain mill products                                                                   | -6,4        | -7,0         | -12,4        | -4,1         | -10,2        | -5,4        |
| Other food products                                                                   | -5,8        | 3,0          | -2,1         | -0,9         | 4,5          | 11,9        |
| Beverages                                                                             | -6,7        | 2,3          | -9,5         | 3,9          | 9,2          | 0,5         |
| <b>Textiles, clothing, leather and footwear</b>                                       | <b>1,7</b>  | <b>-1,8</b>  | <b>-6,6</b>  | <b>2,9</b>   | <b>-9,2</b>  | <b>-1,3</b> |
| Textiles                                                                              | 4,7         | 4,1          | -4,2         | 4,3          | -6,9         | 10,5        |
| Other textile products                                                                | 7,0         | 8,0          | -7,5         | 7,3          | -15,1        | -3,8        |
| Knitted, crocheted articles                                                           | 1,1         | -2,4         | -8,6         | -4,4         | -14,6        | 3,3         |
| Wearing apparel                                                                       | 1,4         | -15,5        | -12,2        | 7,4          | -12,0        | -6,7        |
| Leather and leather products                                                          | -12,0       | -3,5         | -5,8         | -6,6         | -4,2         | -6,2        |
| Footwear                                                                              | 13,8        | 11,6         | 5,8          | -4,3         | -6,1         | -7,0        |
| <b>Wood and wood products, paper, publishing and printing</b>                         | <b>2,5</b>  | <b>-2,2</b>  | <b>-2,7</b>  | <b>-1,9</b>  | <b>-3,6</b>  | <b>-2,3</b> |
| Sawmilling and planing of wood                                                        | 12,3        | 11,5         | -1,8         | 8,7          | -4,3         | -3,3        |
| Products of wood                                                                      | 4,3         | -9,7         | -7,2         | -4,4         | -5,3         | -1,9        |
| Paper and paper products                                                              | -3,9        | -7,6         | -0,7         | -3,4         | -3,0         | -0,8        |
| Publishing                                                                            | -3,8        | 5,4          | -1,0         | -6,3         | -6,6         | -8,0        |
| Printing, recorded media                                                              | 17,2        | 5,1          | -3,6         | -2,1         | 1,2          | -0,5        |
| <b>Petroleum, chemical products, rubber and plastic products</b>                      | <b>-2,1</b> | <b>1,3</b>   | <b>-6,8</b>  | <b>-5,5</b>  | <b>-6,3</b>  | <b>-8,4</b> |
| Coke, petroleum products and nuclear fuel                                             | -3,3        | 1,6          | -7,2         | -15,0        | -11,0        | -21,0       |
| Basic chemicals                                                                       | -2,7        | 3,7          | -7,6         | -5,1         | 4,2          | -0,1        |
| Other chemical products                                                               | -1,6        | 3,5          | -6,2         | 2,6          | -3,9         | 0,0         |
| Rubber products                                                                       | 1,0         | -2,4         | 11,4         | 19,3         | -10,3        | -1,5        |
| Plastic products                                                                      | 0,8         | -6,9         | -13,9        | -1,0         | -7,8         | 0,3         |
| <b>Glass and non-metallic mineral products</b>                                        | <b>-9,9</b> | <b>-9,7</b>  | <b>-10,2</b> | <b>9,1</b>   | <b>-12,3</b> | <b>0,6</b>  |
| Glass and glass products                                                              | -2,4        | -0,1         | -8,7         | 0,2          | -5,4         | -1,4        |
| Non-metallic mineral products                                                         | -12,4       | -12,4        | -10,5        | 11,2         | -13,8        | 1,1         |
| <b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b> | <b>1,7</b>  | <b>2,8</b>   | <b>0,7</b>   | <b>6,4</b>   | <b>-0,3</b>  | <b>5,2</b>  |
| Basic iron and steel products                                                         | -1,9        | 10,4         | 5,1          | 12,0         | 5,3          | 0,6         |
| Non-ferrous metal products                                                            | 12,3        | 2,7          | -2,1         | 7,5          | 6,7          | 3,8         |
| Structural metal products                                                             | -11,4       | -16,4        | -8,6         | -0,1         | -8,2         | -7,7        |
| Other fabricated metal products                                                       | 1,7         | -0,1         | -3,6         | 2,0          | -5,8         | 4,5         |
| General purpose machinery                                                             | 0,8         | 11,3         | 11,6         | 4,5          | -0,9         | 8,2         |
| Special purpose machinery                                                             | 3,6         | 2,4          | 2,9          | 9,0          | -3,3         | 19,4        |
| Household appliances                                                                  | 1,4         | 1,1          | -2,8         | 6,5          | 6,7          | 3,1         |
| <b>Electrical machinery</b>                                                           | <b>-3,7</b> | <b>-11,7</b> | <b>-6,8</b>  | <b>-11,1</b> | <b>-20,0</b> | <b>-5,2</b> |
| <b>Radio, television and communication apparatus and professional equipment</b>       | <b>0,4</b>  | <b>-8,5</b>  | <b>-1,7</b>  | <b>7,3</b>   | <b>17,5</b>  | <b>10,0</b> |
| Radio, television and communication apparatus                                         | -0,3        | -9,7         | -2,3         | 16,4         | 14,0         | 12,5        |
| Professional equipment                                                                | 1,6         | -6,7         | -1,0         | -2,9         | 21,6         | 6,8         |
| <b>Motor vehicles, parts and accessories and other transport equipment</b>            | <b>1,6</b>  | <b>-1,5</b>  | <b>0,0</b>   | <b>6,0</b>   | <b>-17,3</b> | <b>-3,5</b> |
| Motor vehicles                                                                        | 14,2        | 1,7          | 4,2          | 0,3          | -27,9        | -5,7        |
| Bodies for motor vehicles, trailers and semi-trailers                                 | 27,7        | -6,6         | 10,3         | 20,6         | -2,6         | 2,6         |
| Parts and accessories                                                                 | -1,8        | 4,9          | -3,4         | 6,4          | -11,2        | 0,8         |
| Other transport equipment                                                             | -9,3        | -21,5        | -4,0         | 10,9         | -14,1        | -12,9       |
| <b>Furniture and other manufacturing</b>                                              | <b>2,9</b>  | <b>22,3</b>  | <b>-3,8</b>  | <b>1,1</b>   | <b>-15,9</b> | <b>-0,1</b> |
| Furniture                                                                             | -2,5        | 7,9          | 11,8         | 19,7         | 0,0          | 3,0         |
| Other manufacturing groups                                                            | 5,8         | 28,1         | -9,7         | -8,1         | -23,5        | -1,5        |
| <b>Total</b>                                                                          | <b>-2,2</b> | <b>0,6</b>   | <b>-3,7</b>  | <b>0,3</b>   | <b>-4,2</b>  | <b>-0,8</b> |

**Table 6 – Contribution of each division and major group to the year-on-year percentage change in the volume of manufacturing production (percentage points)**

| Manufacturing division and major group                                                | * Weights    | Dec-16      | Jan-17      | Feb-17      | Mar-17      | Apr-17      | May-17      |
|---------------------------------------------------------------------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Food and beverages</b>                                                             | <b>25,15</b> | <b>-2,0</b> | <b>0,2</b>  | <b>-1,0</b> | <b>-0,1</b> | <b>0,4</b>  | <b>0,9</b>  |
| Meat, fish, fruit, etc.                                                               | 6,39         | -0,5        | 0,2         | 0,3         | -0,1        | -0,1        | 0,0         |
| Dairy products                                                                        | 1,89         | -0,2        | -0,1        | -0,2        | -0,1        | -0,1        | 0,1         |
| Grain mill products                                                                   | 2,86         | -0,2        | -0,2        | -0,3        | -0,1        | -0,3        | -0,2        |
| Other food products                                                                   | 7,62         | -0,5        | 0,2         | -0,1        | -0,1        | 0,3         | 0,9         |
| Beverages                                                                             | 6,39         | -0,6        | 0,2         | -0,6        | 0,2         | 0,5         | 0,0         |
| <b>Textiles, clothing, leather and footwear</b>                                       | <b>3,28</b>  | <b>0,0</b>  | <b>-0,1</b> | <b>-0,2</b> | <b>0,1</b>  | <b>-0,3</b> | <b>0,0</b>  |
| Textiles                                                                              | 0,83         | 0,0         | 0,0         | 0,0         | 0,0         | -0,1        | 0,1         |
| Other textile products                                                                | 0,41         | 0,0         | 0,0         | 0,0         | 0,0         | -0,1        | 0,0         |
| Knitted, crocheted articles                                                           | 0,09         | 0,0         | 0,0         | 0,0         | 0,0         | 0,0         | 0,0         |
| Wearing apparel                                                                       | 1,10         | 0,0         | -0,1        | -0,1        | 0,1         | -0,1        | -0,1        |
| Leather and leather products                                                          | 0,49         | -0,1        | 0,0         | 0,0         | 0,0         | 0,0         | 0,0         |
| Footwear                                                                              | 0,36         | 0,0         | 0,0         | 0,0         | 0,0         | 0,0         | 0,0         |
| <b>Wood and wood products, paper, publishing and printing</b>                         | <b>11,62</b> | <b>0,3</b>  | <b>-0,3</b> | <b>-0,3</b> | <b>-0,2</b> | <b>-0,4</b> | <b>-0,3</b> |
| Sawmilling and planing of wood                                                        | 1,71         | 0,2         | 0,2         | 0,0         | 0,2         | -0,1        | -0,1        |
| Products of wood                                                                      | 2,37         | 0,1         | -0,2        | -0,2        | -0,1        | -0,1        | 0,0         |
| Paper and paper products                                                              | 4,33         | -0,2        | -0,4        | 0,0         | -0,2        | -0,1        | 0,0         |
| Publishing                                                                            | 1,49         | -0,1        | 0,1         | 0,0         | -0,1        | -0,1        | -0,1        |
| Printing, recorded media                                                              | 1,72         | 0,3         | 0,1         | -0,1        | 0,0         | 0,0         | 0,0         |
| <b>Petroleum, chemical products, rubber and plastic products</b>                      | <b>24,01</b> | <b>-0,5</b> | <b>0,4</b>  | <b>-1,7</b> | <b>-1,4</b> | <b>-1,6</b> | <b>-2,1</b> |
| Coke, petroleum products and nuclear fuel                                             | 9,29         | -0,4        | 0,2         | -0,7        | -1,6        | -1,2        | -2,0        |
| Basic chemicals                                                                       | 4,36         | -0,1        | 0,2         | -0,3        | -0,2        | 0,2         | 0,0         |
| Other chemical products                                                               | 6,16         | -0,1        | 0,2         | -0,4        | 0,2         | -0,2        | 0,0         |
| Rubber products                                                                       | 1,34         | 0,0         | 0,0         | 0,2         | 0,2         | -0,1        | 0,0         |
| Plastic products                                                                      | 2,86         | 0,0         | -0,2        | -0,4        | 0,0         | -0,2        | 0,0         |
| <b>Glass and non-metallic mineral products</b>                                        | <b>3,90</b>  | <b>-0,3</b> | <b>-0,3</b> | <b>-0,4</b> | <b>0,3</b>  | <b>-0,5</b> | <b>0,0</b>  |
| Glass and glass products                                                              | 0,74         | 0,0         | 0,0         | -0,1        | 0,0         | 0,0         | 0,0         |
| Non-metallic mineral products                                                         | 3,16         | -0,3        | -0,3        | -0,3        | 0,3         | -0,4        | 0,0         |
| <b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b> | <b>18,72</b> | <b>0,3</b>  | <b>0,5</b>  | <b>0,1</b>  | <b>1,2</b>  | <b>-0,1</b> | <b>1,0</b>  |
| Basic iron and steel products                                                         | 3,44         | -0,1        | 0,4         | 0,2         | 0,4         | 0,2         | 0,0         |
| Non-ferrous metal products                                                            | 2,73         | 0,3         | 0,1         | -0,1        | 0,2         | 0,2         | 0,1         |
| Structural metal products                                                             | 1,86         | -0,2        | -0,3        | -0,2        | 0,0         | -0,1        | -0,1        |
| Other fabricated metal products                                                       | 3,86         | 0,0         | 0,0         | -0,2        | 0,1         | -0,2        | 0,2         |
| General purpose machinery                                                             | 2,51         | 0,0         | 0,2         | 0,3         | 0,1         | 0,0         | 0,2         |
| Special purpose machinery                                                             | 3,51         | 0,1         | 0,1         | 0,1         | 0,4         | -0,1        | 0,6         |
| Household appliances                                                                  | 0,81         | 0,0         | 0,0         | 0,0         | 0,0         | 0,0         | 0,0         |
| <b>Electrical machinery</b>                                                           | <b>1,65</b>  | <b>-0,1</b> | <b>-0,2</b> | <b>-0,1</b> | <b>-0,2</b> | <b>-0,3</b> | <b>-0,1</b> |
| <b>Radio, television and communication apparatus and professional equipment</b>       | <b>1,61</b>  | <b>0,0</b>  | <b>-0,1</b> | <b>0,0</b>  | <b>0,1</b>  | <b>0,3</b>  | <b>0,2</b>  |
| Radio, television and communication apparatus                                         | 0,93         | 0,0         | -0,1        | 0,0         | 0,1         | 0,1         | 0,1         |
| Professional equipment                                                                | 0,68         | 0,0         | 0,0         | 0,0         | 0,0         | 0,1         | 0,0         |
| <b>Motor vehicles, parts and accessories and other transport equipment</b>            | <b>6,86</b>  | <b>0,1</b>  | <b>-0,1</b> | <b>0,0</b>  | <b>0,4</b>  | <b>-1,3</b> | <b>-0,3</b> |
| Motor vehicles                                                                        | 2,43         | 0,2         | 0,0         | 0,1         | 0,0         | -0,8        | -0,2        |
| Bodies for motor vehicles, trailers and semi-trailers                                 | 0,46         | 0,1         | 0,0         | 0,0         | 0,1         | 0,0         | 0,0         |
| Parts and accessories                                                                 | 2,76         | 0,0         | 0,1         | -0,1        | 0,2         | -0,3        | 0,0         |
| Other transport equipment                                                             | 1,21         | -0,1        | -0,2        | 0,0         | 0,1         | -0,1        | -0,1        |
| <b>Furniture and other manufacturing</b>                                              | <b>3,20</b>  | <b>0,1</b>  | <b>0,6</b>  | <b>-0,1</b> | <b>0,0</b>  | <b>-0,5</b> | <b>0,0</b>  |
| Furniture                                                                             | 1,09         | 0,0         | 0,1         | 0,1         | 0,2         | 0,0         | 0,0         |
| Other manufacturing groups                                                            | 2,11         | 0,1         | 0,5         | -0,2        | -0,1        | -0,5        | 0,0         |
| <b>Total</b>                                                                          | <b>100</b>   | <b>-2,2</b> | <b>0,6</b>  | <b>-3,7</b> | <b>0,3</b>  | <b>-4,2</b> | <b>-0,8</b> |

\* Revised due to reweighting. See note on page 6.

**Table 7 – Seasonally adjusted index of the volume of manufacturing production by division and major group (Base: 2015=100)**

| Manufacturing division and major group                                                | * Weights    | Jan-17       | Feb-17       | Mar-17       | Apr-17       | May-17       | Month-on-month % change |
|---------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------------|
| <b>Food and beverages</b>                                                             | <b>25,15</b> | <b>98,9</b>  | <b>98,5</b>  | <b>98,0</b>  | <b>103,4</b> | <b>101,9</b> | <b>-1,5</b>             |
| Meat, fish, fruit, etc.                                                               | 6,39         | 99,8         | 101,8        | 94,5         | 100,7        | 99,8         | -0,9                    |
| Dairy products                                                                        | 1,89         | 96,8         | 97,9         | 99,0         | 99,7         | 101,6        | 1,9                     |
| Grain mill products                                                                   | 2,86         | 94,2         | 94,0         | 94,3         | 95,6         | 95,2         | -0,4                    |
| Other food products                                                                   | 7,62         | 102,4        | 102,4        | 97,8         | 104,3        | 105,0        | 0,7                     |
| Beverages                                                                             | 6,39         | 96,5         | 92,6         | 103,0        | 109,7        | 103,5        | -5,7                    |
| <b>Textiles, clothing, leather and footwear</b>                                       | <b>3,28</b>  | <b>96,3</b>  | <b>92,3</b>  | <b>96,0</b>  | <b>93,5</b>  | <b>96,5</b>  | <b>3,2</b>              |
| Textiles                                                                              | 0,83         | 105,5        | 97,5         | 104,5        | 103,8        | 110,3        | 6,3                     |
| Other textile products                                                                | 0,41         | 107,4        | 93,3         | 97,1         | 98,7         | 99,3         | 0,6                     |
| Knitted, crocheted articles                                                           | 0,09         | 101,1        | 96,3         | 91,6         | 90,3         | 97,3         | 7,8                     |
| Wearing apparel                                                                       | 1,10         | 79,1         | 86,9         | 94,5         | 82,7         | 90,3         | 9,2                     |
| Leather and leather products                                                          | 0,49         | 92,0         | 89,9         | 87,4         | 92,5         | 87,5         | -5,4                    |
| Footwear                                                                              | 0,36         | 120,1        | 97,8         | 92,4         | 99,4         | 92,5         | -6,9                    |
| <b>Wood and wood products, paper, publishing and printing</b>                         | <b>11,62</b> | <b>100,3</b> | <b>102,4</b> | <b>100,2</b> | <b>100,9</b> | <b>102,0</b> | <b>1,1</b>              |
| Sawmilling and planing of wood                                                        | 1,71         | 109,0        | 107,3        | 109,9        | 109,9        | 111,4        | 1,4                     |
| Products of wood                                                                      | 2,37         | 93,9         | 101,3        | 98,7         | 99,0         | 101,1        | 2,1                     |
| Paper and paper products                                                              | 4,33         | 100,0        | 102,6        | 100,4        | 99,6         | 101,0        | 1,4                     |
| Publishing                                                                            | 1,49         | 99,1         | 99,8         | 93,6         | 94,2         | 95,1         | 1,0                     |
| Printing, recorded media                                                              | 1,72         | 102,2        | 100,9        | 97,6         | 103,6        | 102,7        | -0,9                    |
| <b>Petroleum, chemical products, rubber and plastic products</b>                      | <b>24,01</b> | <b>102,3</b> | <b>97,9</b>  | <b>97,5</b>  | <b>101,0</b> | <b>97,4</b>  | <b>-3,6</b>             |
| Coke, petroleum products and nuclear fuel                                             | 9,29         | 102,8        | 98,1         | 94,9         | 98,8         | 88,6         | -10,3                   |
| Basic chemicals                                                                       | 4,36         | 102,9        | 99,4         | 98,9         | 103,2        | 104,9        | 1,6                     |
| Other chemical products                                                               | 6,16         | 104,9        | 97,3         | 101,6        | 105,5        | 105,7        | 0,2                     |
| Rubber products                                                                       | 1,34         | 98,0         | 101,4        | 100,4        | 102,5        | 101,1        | -1,4                    |
| Plastic products                                                                      | 2,86         | 96,1         | 94,6         | 93,3         | 94,3         | 95,0         | 0,7                     |
| <b>Glass and non-metallic mineral products</b>                                        | <b>3,90</b>  | <b>93,4</b>  | <b>91,7</b>  | <b>100,2</b> | <b>94,4</b>  | <b>98,0</b>  | <b>3,8</b>              |
| Glass and glass products                                                              | 0,74         | 101,1        | 92,1         | 100,8        | 103,0        | 110,2        | 7,0                     |
| Non-metallic mineral products                                                         | 3,16         | 91,6         | 91,6         | 100,0        | 92,4         | 95,1         | 2,9                     |
| <b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b> | <b>18,72</b> | <b>99,1</b>  | <b>101,1</b> | <b>101,9</b> | <b>99,7</b>  | <b>102,5</b> | <b>2,8</b>              |
| Basic iron and steel products                                                         | 3,44         | 107,1        | 111,2        | 114,8        | 110,4        | 109,1        | -1,2                    |
| Non-ferrous metal products                                                            | 2,73         | 101,4        | 104,1        | 104,0        | 104,9        | 101,4        | -3,3                    |
| Structural metal products                                                             | 1,86         | 85,6         | 89,5         | 90,7         | 89,6         | 88,3         | -1,5                    |
| Other fabricated metal products                                                       | 3,86         | 100,8        | 100,2        | 103,2        | 97,0         | 107,2        | 10,5                    |
| General purpose machinery                                                             | 2,51         | 100,8        | 100,8        | 96,7         | 95,2         | 99,0         | 4,0                     |
| Special purpose machinery                                                             | 3,51         | 96,1         | 99,2         | 100,1        | 98,7         | 105,5        | 6,9                     |
| Household appliances                                                                  | 0,81         | 88,1         | 88,3         | 84,2         | 91,8         | 86,9         | -5,3                    |
| <b>Electrical machinery</b>                                                           | <b>1,65</b>  | <b>90,3</b>  | <b>93,6</b>  | <b>88,5</b>  | <b>88,5</b>  | <b>91,9</b>  | <b>3,8</b>              |
| <b>Radio, television and communication apparatus and professional equipment</b>       | <b>1,61</b>  | <b>100,4</b> | <b>103,9</b> | <b>109,2</b> | <b>117,8</b> | <b>113,3</b> | <b>-3,8</b>             |
| Radio, television and communication apparatus                                         | 0,93         | 100,1        | 104,7        | 115,0        | 115,6        | 118,1        | 2,2                     |
| Professional equipment                                                                | 0,68         | 100,7        | 102,8        | 101,3        | 120,8        | 106,7        | -11,7                   |
| <b>Motor vehicles, parts and accessories and other transport equipment</b>            | <b>6,86</b>  | <b>94,8</b>  | <b>99,3</b>  | <b>96,2</b>  | <b>100,2</b> | <b>96,8</b>  | <b>-3,4</b>             |
| Motor vehicles                                                                        | 2,43         | 90,6         | 96,9         | 90,8         | 94,7         | 97,3         | 2,7                     |
| Bodies for motor vehicles, trailers and semi-trailers                                 | 0,46         | 101,7        | 106,4        | 100,8        | 102,5        | 96,9         | -5,5                    |
| Parts and accessories                                                                 | 2,76         | 104,2        | 103,3        | 97,5         | 109,3        | 101,0        | -7,6                    |
| Other transport equipment                                                             | 1,21         | 79,0         | 92,5         | 102,3        | 89,8         | 86,3         | -3,9                    |
| <b>Furniture and other manufacturing</b>                                              | <b>3,20</b>  | <b>102,5</b> | <b>98,3</b>  | <b>82,8</b>  | <b>91,6</b>  | <b>102,3</b> | <b>11,7</b>             |
| Furniture                                                                             | 1,09         | 98,6         | 100,5        | 98,9         | 94,9         | 94,0         | -0,9                    |
| Other manufacturing groups                                                            | 2,11         | 104,5        | 97,2         | 74,6         | 89,9         | 106,6        | 18,6                    |
| <b>Total</b>                                                                          | <b>100</b>   | <b>99,3</b>  | <b>98,9</b>  | <b>98,3</b>  | <b>100,6</b> | <b>100,3</b> | <b>-0,3</b>             |

\* Revised due to reweighting. See note on page 6.

**Table 8 – Manufacturing sales at current prices (R million)**

| Month        | 2011             | 2012             | 2013             | 2014             | 2015             | 2016             | 2017 <sup>1</sup> |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Jan          | 97 411           | 108 491          | 117 959          | 131 761          | 131 002          | 134 925          | 145 168           |
| Feb          | 113 324          | 127 563          | 133 672          | 148 322          | 145 423          | 157 533          | 159 926           |
| Mar          | 127 991          | 135 237          | 139 554          | 153 523          | 163 845          | 166 251          | 179 282           |
| Apr          | 109 650          | 119 115          | 135 261          | 145 555          | 144 372          | 157 266          | 155 956           |
| May          | 119 270          | 132 208          | 143 182          | 150 221          | 155 084          | 169 757          | 175 630           |
| Jun          | 123 962          | 132 709          | 141 053          | 158 110          | 159 864          | 173 552          |                   |
| Jul          | 114 767          | 129 532          | 148 320          | 147 886          | 160 520          | 167 749          |                   |
| Aug          | 126 866          | 136 533          | 146 049          | 158 442          | 158 603          | 173 834          |                   |
| Sep          | 135 195          | 133 921          | 142 416          | 164 928          | 169 078          | 180 850          |                   |
| Oct          | 135 976          | 146 705          | 158 674          | 177 895          | 175 325          | 180 643          |                   |
| Nov          | 141 655          | 155 603          | 164 565          | 173 109          | 176 362          | 192 540          |                   |
| Dec          | 119 470          | 125 295          | 142 129          | 150 084          | 153 063          | 160 381          |                   |
| <b>Total</b> | <b>1 465 537</b> | <b>1 582 912</b> | <b>1 712 834</b> | <b>1 859 836</b> | <b>1 892 541</b> | <b>2 015 281</b> |                   |

<sup>1</sup> The latest three months are preliminary.

**Table 9 – Year-on-year percentage change in manufacturing sales at current prices**

| Month        | 2012       | 2013       | 2014       | 2015       | 2016       | 2017 | 2017<br>year-to-date |
|--------------|------------|------------|------------|------------|------------|------|----------------------|
| Jan          | 11,4       | 8,7        | 11,7       | -0,6       | 3,0        | 7,6  | 7,6                  |
| Feb          | 12,6       | 4,8        | 11,0       | -2,0       | 8,3        | 1,5  | 4,3                  |
| Mar          | 5,7        | 3,2        | 10,0       | 6,7        | 1,5        | 7,8  | 5,6                  |
| Apr          | 8,6        | 13,6       | 7,6        | -0,8       | 8,9        | -0,8 | 4,0                  |
| May          | 10,8       | 8,3        | 4,9        | 3,2        | 9,5        | 3,5  | 3,8                  |
| Jun          | 7,1        | 6,3        | 12,1       | 1,1        | 8,6        |      |                      |
| Jul          | 12,9       | 14,5       | -0,3       | 8,5        | 4,5        |      |                      |
| Aug          | 7,6        | 7,0        | 8,5        | 0,1        | 9,6        |      |                      |
| Sep          | -0,9       | 6,3        | 15,8       | 2,5        | 7,0        |      |                      |
| Oct          | 7,9        | 8,2        | 12,1       | -1,4       | 3,0        |      |                      |
| Nov          | 9,8        | 5,8        | 5,2        | 1,9        | 9,2        |      |                      |
| Dec          | 4,9        | 13,4       | 5,6        | 2,0        | 4,8        |      |                      |
| <b>Total</b> | <b>8,0</b> | <b>8,2</b> | <b>8,6</b> | <b>1,8</b> | <b>6,5</b> |      |                      |

**Table 10 – Seasonally adjusted manufacturing sales at current prices**

| Month | R million |         |         |         | Month-on-month % change |      |      |      |
|-------|-----------|---------|---------|---------|-------------------------|------|------|------|
|       | 2014      | 2015    | 2016    | 2017    | 2014                    | 2015 | 2016 | 2017 |
| Jan   | 152 702   | 154 524 | 161 130 | 171 360 | 0,7                     | -2,3 | 0,9  | 1,2  |
| Feb   | 155 379   | 152 710 | 164 678 | 169 096 | 1,8                     | -1,2 | 2,2  | -1,3 |
| Mar   | 150 125   | 159 134 | 164 172 | 170 689 | -3,4                    | 4,2  | -0,3 | 0,9  |
| Apr   | 156 369   | 155 234 | 165 591 | 172 263 | 4,2                     | -2,5 | 0,9  | 0,9  |
| May   | 150 324   | 156 504 | 170 336 | 174 169 | -3,9                    | 0,8  | 2,9  | 1,1  |
| Jun   | 156 472   | 156 802 | 170 209 |         | 4,1                     | 0,2  | -0,1 |      |
| Jul   | 146 825   | 158 517 | 169 355 |         | -6,2                    | 1,1  | -0,5 |      |
| Aug   | 157 122   | 158 079 | 169 427 |         | 7,0                     | -0,3 | 0,0  |      |
| Sep   | 156 977   | 160 334 | 170 152 |         | -0,1                    | 1,4  | 0,4  |      |
| Oct   | 160 401   | 159 964 | 167 330 |         | 2,2                     | -0,2 | -1,7 |      |
| Nov   | 157 463   | 158 247 | 171 548 |         | -1,8                    | -1,1 | 2,5  |      |
| Dec   | 158 152   | 159 747 | 169 301 |         | 0,4                     | 0,9  | -1,3 |      |

**Table 11 – Manufacturing sales at current prices by division and major group (R million)**

| Manufacturing division and major group                                                | Dec-16         | Jan-17         | Feb-17         | <sup>1</sup> Mar-17 | <sup>1</sup> Apr-17 | <sup>1</sup> May-17 |
|---------------------------------------------------------------------------------------|----------------|----------------|----------------|---------------------|---------------------|---------------------|
| <b>Food and beverages</b>                                                             | <b>47 927</b>  | <b>35 517</b>  | <b>37 381</b>  | <b>41 386</b>       | <b>38 900</b>       | <b>40 193</b>       |
| Meat, fish, fruit, etc.                                                               | 13 041         | 9 876          | 10 715         | 12 062              | 10 995              | 11 899              |
| Dairy products                                                                        | 3 731          | 3 267          | 3 163          | 3 690               | 3 369               | 3 469               |
| Grain mill products                                                                   | 6 629          | 5 740          | 5 583          | 6 517               | 5 557               | 6 144               |
| Other food products                                                                   | 8 784          | 7 886          | 8 484          | 7 865               | 8 913               | 8 811               |
| Beverages                                                                             | 15 742         | 8 748          | 9 436          | 11 251              | 10 066              | 9 870               |
| <b>Textiles, clothing, leather and footwear</b>                                       | <b>3 894</b>   | <b>3 402</b>   | <b>4 302</b>   | <b>4 874</b>        | <b>4 238</b>        | <b>4 607</b>        |
| Textiles                                                                              | 467            | 542            | 697            | 764                 | 662                 | 777                 |
| Other textile products                                                                | 939            | 880            | 1 136          | 1 224               | 1 064               | 1 205               |
| Knitted, crocheted articles                                                           | 147            | 149            | 197            | 226                 | 199                 | 226                 |
| Wearing apparel                                                                       | 1 381          | 896            | 1 306          | 1 597               | 1 324               | 1 427               |
| Leather and leather products                                                          | 491            | 528            | 580            | 605                 | 572                 | 584                 |
| Footwear                                                                              | 469            | 406            | 386            | 458                 | 418                 | 389                 |
| <b>Wood and wood products, paper, publishing and printing</b>                         | <b>12 568</b>  | <b>10 861</b>  | <b>12 342</b>  | <b>13 289</b>       | <b>11 005</b>       | <b>12 772</b>       |
| Sawmilling and planing of wood                                                        | 685            | 638            | 721            | 854                 | 573                 | 793                 |
| Products of wood                                                                      | 1 363          | 1 281          | 1 601          | 1 753               | 1 509               | 1 647               |
| Paper and paper products                                                              | 5 960          | 5 317          | 5 869          | 6 568               | 5 327               | 6 133               |
| Publishing                                                                            | 1 768          | 1 520          | 1 674          | 1 613               | 1 475               | 1 602               |
| Printing, recorded media                                                              | 2 792          | 2 104          | 2 477          | 2 501               | 2 121               | 2 596               |
| <b>Petroleum, chemical products, rubber and plastic products</b>                      | <b>34 760</b>  | <b>34 734</b>  | <b>33 463</b>  | <b>36 474</b>       | <b>33 283</b>       | <b>37 923</b>       |
| Coke, petroleum products and nuclear fuel                                             | 11 719         | 12 891         | 10 186         | 10 404              | 10 924              | 12 238              |
| Basic chemicals                                                                       | 7 235          | 7 365          | 7 006          | 7 880               | 6 757               | 7 962               |
| Other chemical products                                                               | 9 835          | 9 067          | 9 622          | 11 274              | 9 617               | 10 970              |
| Rubber products                                                                       | 1 163          | 1 143          | 1 571          | 1 655               | 1 292               | 1 559               |
| Plastic products                                                                      | 4 808          | 4 268          | 5 078          | 5 262               | 4 694               | 5 194               |
| <b>Glass and non-metallic mineral products</b>                                        | <b>3 453</b>   | <b>3 369</b>   | <b>4 079</b>   | <b>5 082</b>        | <b>4 198</b>        | <b>5 129</b>        |
| Glass and glass products                                                              | 783            | 694            | 646            | 727                 | 674                 | 886                 |
| Non-metallic mineral products                                                         | 2 670          | 2 675          | 3 433          | 4 355               | 3 524               | 4 243               |
| <b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b> | <b>30 478</b>  | <b>31 609</b>  | <b>34 942</b>  | <b>40 359</b>       | <b>35 452</b>       | <b>38 943</b>       |
| Basic iron and steel products                                                         | 7 698          | 10 872         | 10 061         | 11 790              | 11 527              | 11 170              |
| Non-ferrous metal products                                                            | 7 969          | 7 968          | 7 863          | 9 052               | 8 502               | 9 742               |
| Structural metal products                                                             | 2 067          | 1 961          | 2 998          | 3 007               | 2 343               | 2 769               |
| Other fabricated metal products                                                       | 4 527          | 4 647          | 5 909          | 6 569               | 5 562               | 6 749               |
| General purpose machinery                                                             | 2 903          | 2 473          | 3 036          | 3 251               | 2 810               | 3 244               |
| Special purpose machinery                                                             | 4 517          | 2 879          | 4 128          | 5 628               | 3 863               | 4 319               |
| Household appliances                                                                  | 796            | 808            | 946            | 1 063               | 845                 | 950                 |
| <b>Electrical machinery</b>                                                           | <b>4 308</b>   | <b>3 455</b>   | <b>4 609</b>   | <b>5 137</b>        | <b>3 756</b>        | <b>4 574</b>        |
| <b>Radio, television and communication apparatus and professional equipment</b>       | <b>2 335</b>   | <b>1 619</b>   | <b>2 197</b>   | <b>2 495</b>        | <b>2 208</b>        | <b>2 261</b>        |
| Radio, television and communication apparatus                                         | 1 430          | 954            | 1 309          | 1 526               | 1 233               | 1 340               |
| Professional equipment                                                                | 905            | 665            | 888            | 969                 | 976                 | 921                 |
| <b>Motor vehicles, parts and accessories and other transport equipment</b>            | <b>14 975</b>  | <b>16 328</b>  | <b>20 822</b>  | <b>24 616</b>       | <b>17 699</b>       | <b>22 622</b>       |
| Motor vehicles                                                                        | 8 180          | 9 172          | 11 575         | 13 769              | 9 815               | 13 064              |
| Bodies for motor vehicles, trailers and semi-trailers                                 | 727            | 627            | 985            | 1 133               | 853                 | 1 091               |
| Parts and accessories                                                                 | 3 912          | 5 202          | 6 400          | 7 036               | 5 496               | 6 795               |
| Other transport equipment                                                             | 2 157          | 1 327          | 1 862          | 2 678               | 1 536               | 1 672               |
| <b>Furniture and other manufacturing</b>                                              | <b>5 684</b>   | <b>4 275</b>   | <b>5 791</b>   | <b>5 570</b>        | <b>5 215</b>        | <b>6 606</b>        |
| Furniture                                                                             | 1 128          | 811            | 1 237          | 1 298               | 1 140               | 1 319               |
| Other manufacturing groups                                                            | 4 555          | 3 464          | 4 554          | 4 272               | 4 075               | 5 287               |
| <b>Total</b>                                                                          | <b>160 381</b> | <b>145 168</b> | <b>159 926</b> | <b>179 282</b>      | <b>155 956</b>      | <b>175 630</b>      |

<sup>1</sup> The latest three months are preliminary.

**Table 12 – Year-on-year percentage change in manufacturing sales at current prices by division and major group**

| Manufacturing division and major group                                                | Dec-16      | Jan-17      | Feb-17       | Mar-17       | Apr-17       | May-17      |
|---------------------------------------------------------------------------------------|-------------|-------------|--------------|--------------|--------------|-------------|
| <b>Food and beverages</b>                                                             | <b>3,3</b>  | <b>6,1</b>  | <b>5,8</b>   | <b>3,9</b>   | <b>5,4</b>   | <b>2,9</b>  |
| Meat, fish, fruit, etc.                                                               | 3,4         | 9,4         | 10,8         | 3,4          | 4,9          | 5,5         |
| Dairy products                                                                        | 2,2         | 7,8         | -0,6         | 6,4          | 5,4          | 8,9         |
| Grain mill products                                                                   | 3,4         | -2,0        | -6,3         | -4,9         | -12,2        | -12,8       |
| Other food products                                                                   | 9,0         | 8,9         | 22,5         | 11,2         | 8,9          | 8,4         |
| Beverages                                                                             | 0,5         | 5,4         | -1,6         | 4,4          | 15,3         | 4,9         |
| <b>Textiles, clothing, leather and footwear</b>                                       | <b>6,4</b>  | <b>4,2</b>  | <b>-3,2</b>  | <b>6,7</b>   | <b>-6,8</b>  | <b>-1,2</b> |
| Textiles                                                                              | 3,8         | 6,9         | -2,4         | 1,1          | -4,5         | 5,6         |
| Other textile products                                                                | 17,4        | 3,2         | -1,7         | 11,6         | -12,7        | -2,5        |
| Knitted, crocheted articles                                                           | 13,1        | 5,7         | -1,5         | 5,1          | -8,3         | 0,4         |
| Wearing apparel                                                                       | 1,0         | -1,6        | -4,7         | 9,6          | -4,1         | -4,2        |
| Leather and leather products                                                          | -3,5        | 1,7         | -6,8         | 2,0          | -4,3         | 0,2         |
| Footwear                                                                              | 16,4        | 20,8        | 1,8          | 2,2          | -4,3         | -0,5        |
| <b>Wood and wood products, paper, publishing and printing</b>                         | <b>6,3</b>  | <b>1,2</b>  | <b>1,3</b>   | <b>3,8</b>   | <b>-0,3</b>  | <b>5,6</b>  |
| Sawmilling and planing of wood                                                        | 5,1         | 15,4        | 0,8          | 18,0         | -26,0        | 1,1         |
| Products of wood                                                                      | 3,9         | -6,3        | -3,7         | -2,3         | -8,8         | 0,1         |
| Paper and paper products                                                              | 0,5         | -3,4        | 4,9          | 4,1          | 2,1          | 8,9         |
| Publishing                                                                            | -0,4        | 8,4         | -0,2         | 1,1          | 3,0          | -2,8        |
| Printing, recorded media                                                              | 29,7        | 10,6        | -2,1         | 5,1          | 8,4          | 8,8         |
| <b>Petroleum, chemical products, rubber and plastic products</b>                      | <b>2,9</b>  | <b>9,6</b>  | <b>0,9</b>   | <b>6,5</b>   | <b>1,2</b>   | <b>5,0</b>  |
| Coke, petroleum products and nuclear fuel                                             | 0,1         | 19,7        | 13,2         | -1,0         | 3,9          | 0,6         |
| Basic chemicals                                                                       | 9,1         | 5,5         | -7,5         | 10,4         | -1,2         | 10,3        |
| Other chemical products                                                               | -0,4        | 8,6         | -2,0         | 11,2         | 4,4          | 7,4         |
| Rubber products                                                                       | 13,5        | 3,8         | 11,7         | 16,1         | -9,4         | 5,7         |
| Plastic products                                                                      | 5,7         | -4,8        | -5,4         | 4,1          | -4,3         | 3,1         |
| <b>Glass and non-metallic mineral products</b>                                        | <b>-0,5</b> | <b>-5,5</b> | <b>-8,6</b>  | <b>12,2</b>  | <b>-7,8</b>  | <b>3,9</b>  |
| Glass and glass products                                                              | 1,3         | 2,8         | -11,5        | 1,1          | -6,3         | 1,1         |
| Non-metallic mineral products                                                         | -1,0        | -7,4        | -8,0         | 14,2         | -8,2         | 4,5         |
| <b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b> | <b>11,8</b> | <b>15,6</b> | <b>1,9</b>   | <b>15,8</b>  | <b>6,2</b>   | <b>8,1</b>  |
| Basic iron and steel products                                                         | 19,8        | 33,5        | 10,7         | 32,8         | 24,0         | 9,6         |
| Non-ferrous metal products                                                            | 8,2         | 13,6        | -4,5         | 11,9         | 3,8          | 9,4         |
| Structural metal products                                                             | -8,5        | -8,1        | -0,1         | 7,7          | -8,4         | -0,5        |
| Other fabricated metal products                                                       | 14,6        | 6,3         | -0,3         | 10,1         | -0,5         | 10,6        |
| General purpose machinery                                                             | 11,7        | 17,4        | 7,2          | 7,8          | -1,1         | 8,5         |
| Special purpose machinery                                                             | 16,7        | 3,9         | -1,1         | 11,7         | -2,8         | 6,7         |
| Household appliances                                                                  | 1,3         | 1,0         | -8,7         | -0,1         | -9,7         | -6,8        |
| <b>Electrical machinery</b>                                                           | <b>4,9</b>  | <b>-7,7</b> | <b>-11,4</b> | <b>-15,2</b> | <b>-20,2</b> | <b>-3,1</b> |
| <b>Radio, television and communication apparatus and professional equipment</b>       | <b>6,7</b>  | <b>-5,4</b> | <b>4,6</b>   | <b>17,9</b>  | <b>21,8</b>  | <b>10,5</b> |
| Radio, television and communication apparatus                                         | 2,6         | -8,7        | 9,4          | 30,1         | 22,6         | 15,0        |
| Professional equipment                                                                | 13,7        | -0,3        | -1,7         | 2,6          | 20,9         | 4,4         |
| <b>Motor vehicles, parts and accessories and other transport equipment</b>            | <b>1,7</b>  | <b>4,5</b>  | <b>-0,3</b>  | <b>11,0</b>  | <b>-20,2</b> | <b>-3,6</b> |
| Motor vehicles                                                                        | -4,6        | 16,4        | 2,6          | 15,3         | -19,2        | 0,5         |
| Bodies for motor vehicles, trailers and semi-trailers                                 | 27,5        | -4,7        | 6,6          | 27,4         | -9,2         | 9,3         |
| Parts and accessories                                                                 | 16,5        | -5,3        | -6,4         | -0,3         | -24,4        | -12,6       |
| Other transport equipment                                                             | -2,8        | -16,8       | 1,9          | 17,0         | -16,2        | -1,4        |
| <b>Furniture and other manufacturing</b>                                              | <b>0,7</b>  | <b>12,6</b> | <b>5,8</b>   | <b>10,4</b>  | <b>0,0</b>   | <b>-0,1</b> |
| Furniture                                                                             | 1,3         | 8,0         | 12,8         | 27,0         | 1,2          | 8,6         |
| Other manufacturing groups                                                            | 0,6         | 13,7        | 4,1          | 6,2          | -0,3         | -2,0        |
| <b>Total</b>                                                                          | <b>4,8</b>  | <b>7,6</b>  | <b>1,5</b>   | <b>7,8</b>   | <b>-0,8</b>  | <b>3,5</b>  |

**Table 13 – Contribution of each division and major group to the year-on-year percentage change in manufacturing sales at current prices (percentage points)**

| Manufacturing division and major group                                                | Dec-16     | Jan-17      | Feb-17      | Mar-17      | Apr-17      | May-17      |
|---------------------------------------------------------------------------------------|------------|-------------|-------------|-------------|-------------|-------------|
| <b>Food and beverages</b>                                                             | <b>1,0</b> | <b>1,5</b>  | <b>1,3</b>  | <b>0,9</b>  | <b>1,3</b>  | <b>0,7</b>  |
| Meat, fish, fruit, etc.                                                               | 0,3        | 0,6         | 0,7         | 0,2         | 0,3         | 0,4         |
| Dairy products                                                                        | 0,1        | 0,2         | 0,0         | 0,1         | 0,1         | 0,2         |
| Grain mill products                                                                   | 0,1        | -0,1        | -0,2        | -0,2        | -0,5        | -0,5        |
| Other food products                                                                   | 0,5        | 0,5         | 1,0         | 0,5         | 0,5         | 0,4         |
| Beverages                                                                             | 0,1        | 0,3         | -0,1        | 0,3         | 0,8         | 0,3         |
| <b>Textiles, clothing, leather and footwear</b>                                       | <b>0,2</b> | <b>0,1</b>  | <b>-0,1</b> | <b>0,2</b>  | <b>-0,2</b> | <b>0,0</b>  |
| Textiles                                                                              | 0,0        | 0,0         | 0,0         | 0,0         | 0,0         | 0,0         |
| Other textile products                                                                | 0,1        | 0,0         | 0,0         | 0,1         | -0,1        | 0,0         |
| Knitted, crocheted articles                                                           | 0,0        | 0,0         | 0,0         | 0,0         | 0,0         | 0,0         |
| Wearing apparel                                                                       | 0,0        | 0,0         | 0,0         | 0,1         | 0,0         | 0,0         |
| Leather and leather products                                                          | 0,0        | 0,0         | 0,0         | 0,0         | 0,0         | 0,0         |
| Footwear                                                                              | 0,0        | 0,1         | 0,0         | 0,0         | 0,0         | 0,0         |
| <b>Wood and wood products, paper, publishing and printing</b>                         | <b>0,5</b> | <b>0,1</b>  | <b>0,1</b>  | <b>0,3</b>  | <b>0,0</b>  | <b>0,4</b>  |
| Sawmilling and planing of wood                                                        | 0,0        | 0,1         | 0,0         | 0,1         | -0,1        | 0,0         |
| Products of wood                                                                      | 0,0        | -0,1        | 0,0         | 0,0         | -0,1        | 0,0         |
| Paper and paper products                                                              | 0,0        | -0,1        | 0,2         | 0,2         | 0,1         | 0,3         |
| Publishing                                                                            | 0,0        | 0,1         | 0,0         | 0,0         | 0,0         | 0,0         |
| Printing, recorded media                                                              | 0,4        | 0,1         | 0,0         | 0,1         | 0,1         | 0,1         |
| <b>Petroleum, chemical products, rubber and plastic products</b>                      | <b>0,6</b> | <b>2,3</b>  | <b>0,2</b>  | <b>1,3</b>  | <b>0,3</b>  | <b>1,1</b>  |
| Coke, petroleum products and nuclear fuel                                             | 0,0        | 1,6         | 0,8         | -0,1        | 0,3         | 0,0         |
| Basic chemicals                                                                       | 0,4        | 0,3         | -0,4        | 0,4         | -0,1        | 0,4         |
| Other chemical products                                                               | 0,0        | 0,5         | -0,1        | 0,7         | 0,3         | 0,4         |
| Rubber products                                                                       | 0,1        | 0,0         | 0,1         | 0,1         | -0,1        | 0,0         |
| Plastic products                                                                      | 0,2        | -0,2        | -0,2        | 0,1         | -0,1        | 0,1         |
| <b>Glass and non-metallic mineral products</b>                                        | <b>0,0</b> | <b>-0,1</b> | <b>-0,2</b> | <b>0,3</b>  | <b>-0,2</b> | <b>0,1</b>  |
| Glass and glass products                                                              | 0,0        | 0,0         | -0,1        | 0,0         | 0,0         | 0,0         |
| Non-metallic mineral products                                                         | 0,0        | -0,2        | -0,2        | 0,3         | -0,2        | 0,1         |
| <b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b> | <b>2,1</b> | <b>3,2</b>  | <b>0,4</b>  | <b>3,3</b>  | <b>1,3</b>  | <b>1,7</b>  |
| Basic iron and steel products                                                         | 0,8        | 2,0         | 0,6         | 1,8         | 1,4         | 0,6         |
| Non-ferrous metal products                                                            | 0,4        | 0,7         | -0,2        | 0,6         | 0,2         | 0,5         |
| Structural metal products                                                             | -0,1       | -0,1        | 0,0         | 0,1         | -0,1        | 0,0         |
| Other fabricated metal products                                                       | 0,4        | 0,2         | 0,0         | 0,4         | 0,0         | 0,4         |
| General purpose machinery                                                             | 0,2        | 0,3         | 0,1         | 0,1         | 0,0         | 0,1         |
| Special purpose machinery                                                             | 0,4        | 0,1         | 0,0         | 0,4         | -0,1        | 0,2         |
| Household appliances                                                                  | 0,0        | 0,0         | -0,1        | 0,0         | -0,1        | 0,0         |
| <b>Electrical machinery</b>                                                           | <b>0,1</b> | <b>-0,2</b> | <b>-0,4</b> | <b>-0,6</b> | <b>-0,6</b> | <b>-0,1</b> |
| <b>Radio, television and communication apparatus and professional equipment</b>       | <b>0,1</b> | <b>-0,1</b> | <b>0,1</b>  | <b>0,2</b>  | <b>0,3</b>  | <b>0,1</b>  |
| Radio, television and communication apparatus                                         | 0,0        | -0,1        | 0,1         | 0,2         | 0,1         | 0,1         |
| Professional equipment                                                                | 0,1        | 0,0         | 0,0         | 0,0         | 0,1         | 0,0         |
| <b>Motor vehicles, parts and accessories and other transport equipment</b>            | <b>0,2</b> | <b>0,5</b>  | <b>0,0</b>  | <b>1,5</b>  | <b>-2,9</b> | <b>-0,5</b> |
| Motor vehicles                                                                        | -0,3       | 1,0         | 0,2         | 1,1         | -1,5        | 0,0         |
| Bodies for motor vehicles, trailers and semi-trailers                                 | 0,1        | 0,0         | 0,0         | 0,1         | -0,1        | 0,1         |
| Parts and accessories                                                                 | 0,4        | -0,2        | -0,3        | 0,0         | -1,1        | -0,6        |
| Other transport equipment                                                             | 0,0        | -0,2        | 0,0         | 0,2         | -0,2        | 0,0         |
| <b>Furniture and other manufacturing</b>                                              | <b>0,0</b> | <b>0,4</b>  | <b>0,2</b>  | <b>0,3</b>  | <b>0,0</b>  | <b>0,0</b>  |
| Furniture                                                                             | 0,0        | 0,0         | 0,1         | 0,2         | 0,0         | 0,1         |
| Other manufacturing groups                                                            | 0,0        | 0,3         | 0,1         | 0,2         | 0,0         | -0,1        |
| <b>Total</b>                                                                          | <b>4,8</b> | <b>7,6</b>  | <b>1,5</b>  | <b>7,8</b>  | <b>-0,8</b> | <b>3,5</b>  |

**Table 14 – Seasonally adjusted manufacturing sales at current prices by division and major group (R million)**

| Manufacturing division and major group                                                | Jan-17         | Feb-17         | Mar-17         | Apr-17         | May-17         | Month-on-month<br>% change |
|---------------------------------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------------------|
| <b>Food and beverages</b>                                                             | <b>40 742</b>  | <b>40 984</b>  | <b>40 915</b>  | <b>42 396</b>  | <b>41 357</b>  | <b>-2,5</b>                |
| Meat, fish, fruit, etc.                                                               | 11 737         | 12 075         | 11 415         | 11 991         | 11 831         | -1,3                       |
| Dairy products                                                                        | 3 461          | 3 463          | 3 500          | 3 610          | 3 559          | -1,4                       |
| Grain mill products                                                                   | 6 234          | 6 214          | 6 160          | 6 044          | 5 995          | -0,8                       |
| Other food products                                                                   | 8 824          | 8 904          | 8 734          | 8 968          | 9 030          | 0,7                        |
| Beverages                                                                             | 10 486         | 10 329         | 11 106         | 11 782         | 10 942         | -7,1                       |
| <b>Textiles, clothing, leather and footwear</b>                                       | <b>4 742</b>   | <b>4 473</b>   | <b>4 512</b>   | <b>4 489</b>   | <b>4 519</b>   | <b>0,7</b>                 |
| Textiles                                                                              | 704            | 693            | 674            | 703            | 714            | 1,6                        |
| Other textile products                                                                | 1 189          | 1 138          | 1 140          | 1 117          | 1 141          | 2,1                        |
| Knitted, crocheted articles                                                           | 207            | 196            | 190            | 196            | 198            | 1,0                        |
| Wearing apparel                                                                       | 1 451          | 1 425          | 1 500          | 1 425          | 1 444          | 1,3                        |
| Leather and leather products                                                          | 593            | 558            | 573            | 590            | 581            | -1,5                       |
| Footwear                                                                              | 598            | 462            | 435            | 457            | 440            | -3,7                       |
| <b>Wood and wood products, paper, publishing and printing</b>                         | <b>12 930</b>  | <b>12 967</b>  | <b>12 757</b>  | <b>13 037</b>  | <b>13 271</b>  | <b>1,8</b>                 |
| Sawmilling and planing of wood                                                        | 776            | 731            | 764            | 648            | 767            | 18,4                       |
| Products of wood                                                                      | 1 610          | 1 675          | 1 648          | 1 647          | 1 682          | 2,1                        |
| Paper and paper products                                                              | 6 112          | 6 221          | 6 109          | 6 187          | 6 356          | 2,7                        |
| Publishing                                                                            | 1 777          | 1 764          | 1 710          | 1 739          | 1 728          | -0,6                       |
| Printing, recorded media                                                              | 2 654          | 2 575          | 2 527          | 2 816          | 2 738          | -2,8                       |
| <b>Petroleum, chemical products, rubber and plastic products</b>                      | <b>38 295</b>  | <b>36 817</b>  | <b>36 144</b>  | <b>36 778</b>  | <b>37 342</b>  | <b>1,5</b>                 |
| Coke, petroleum products and nuclear fuel                                             | 12 865         | 11 967         | 11 043         | 11 226         | 11 272         | 0,4                        |
| Basic chemicals                                                                       | 8 042          | 7 773          | 7 814          | 7 904          | 8 072          | 2,1                        |
| Other chemical products                                                               | 10 800         | 10 355         | 10 585         | 10 912         | 11 116         | 1,9                        |
| Rubber products                                                                       | 1 431          | 1 513          | 1 447          | 1 460          | 1 524          | 4,4                        |
| Plastic products                                                                      | 5 158          | 5 210          | 5 254          | 5 275          | 5 357          | 1,6                        |
| <b>Glass and non-metallic mineral products</b>                                        | <b>4 496</b>   | <b>4 467</b>   | <b>4 886</b>   | <b>4 745</b>   | <b>4 946</b>   | <b>4,2</b>                 |
| Glass and glass products                                                              | 839            | 733            | 857            | 804            | 957            | 19,0                       |
| Non-metallic mineral products                                                         | 3 657          | 3 733          | 4 028          | 3 941          | 3 989          | 1,2                        |
| <b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b> | <b>37 045</b>  | <b>35 398</b>  | <b>37 139</b>  | <b>38 062</b>  | <b>37 314</b>  | <b>-2,0</b>                |
| Basic iron and steel products                                                         | 11 113         | 10 131         | 11 013         | 11 735         | 10 407         | -11,3                      |
| Non-ferrous metal products                                                            | 8 784          | 8 045          | 8 861          | 8 869          | 9 340          | 5,3                        |
| Structural metal products                                                             | 2 636          | 2 775          | 2 722          | 2 727          | 2 724          | -0,1                       |
| Other fabricated metal products                                                       | 6 136          | 6 099          | 6 095          | 6 267          | 6 425          | 2,5                        |
| General purpose machinery                                                             | 3 212          | 3 158          | 3 153          | 3 112          | 3 213          | 3,2                        |
| Special purpose machinery                                                             | 4 176          | 4 257          | 4 370          | 4 409          | 4 283          | -2,9                       |
| Household appliances                                                                  | 988            | 932            | 924            | 942            | 923            | -2,0                       |
| <b>Electrical machinery</b>                                                           | <b>4 670</b>   | <b>4 580</b>   | <b>4 536</b>   | <b>4 386</b>   | <b>4 698</b>   | <b>7,1</b>                 |
| <b>Radio, television and communication apparatus and professional equipment</b>       | <b>2 200</b>   | <b>2 312</b>   | <b>2 375</b>   | <b>2 635</b>   | <b>2 429</b>   | <b>-7,8</b>                |
| Radio, television and communication apparatus                                         | 1 317          | 1 399          | 1 482          | 1 588          | 1 509          | -5,0                       |
| Professional equipment                                                                | 883            | 913            | 893            | 1 047          | 920            | -12,1                      |
| <b>Motor vehicles, parts and accessories and other transport equipment</b>            | <b>20 354</b>  | <b>21 305</b>  | <b>21 923</b>  | <b>20 024</b>  | <b>21 789</b>  | <b>8,8</b>                 |
| Motor vehicles                                                                        | 11 778         | 12 063         | 12 533         | 11 203         | 12 525         | 11,8                       |
| Bodies for motor vehicles, trailers and semi-trailers                                 | 986            | 1 003          | 987            | 965            | 1 002          | 3,8                        |
| Parts and accessories                                                                 | 5 915          | 6 258          | 6 218          | 5 994          | 6 383          | 6,5                        |
| Other transport equipment                                                             | 1 675          | 1 982          | 2 184          | 1 862          | 1 879          | 0,9                        |
| <b>Furniture and other manufacturing</b>                                              | <b>5 887</b>   | <b>5 793</b>   | <b>5 504</b>   | <b>5 712</b>   | <b>6 504</b>   | <b>13,9</b>                |
| Furniture                                                                             | 1 298          | 1 350          | 1 365          | 1 326          | 1 302          | -1,8                       |
| Other manufacturing groups                                                            | 4 588          | 4 443          | 4 138          | 4 387          | 5 202          | 18,6                       |
| <b>Total</b>                                                                          | <b>171 360</b> | <b>169 096</b> | <b>170 689</b> | <b>172 263</b> | <b>174 169</b> | <b>1,1</b>                 |

## Survey information

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Introduction</b>                                   | <ol style="list-style-type: none"> <li>1 Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry, covering manufacturing enterprises. This statistical release contains the results of a sample drawn from the business sampling frame (BSF), with enhanced coverage of South African businesses (see 4). The release contains monthly indices of the volume of manufacturing production and monthly value of sales of manufactured products by division and major group.</li> <li>2 In accordance with international practice, the indices are usually re-based every five years to a new base year. The current base period of the index is 2015. Both estimated and seasonally adjusted figures are presented.</li> <li>3 In order to improve timeliness, some information for the latest month had to be estimated due to late response. These estimates will be revised in future statistical releases as soon as information becomes available.</li> <li>4 Stats SA is continuously updating its BSF, based on units registered for value added tax (VAT) and income tax (IT) obtained from the South African Revenue Service (SARS).</li> </ol> |
| <b>Purpose of the survey</b>                          | <ol style="list-style-type: none"> <li>5 The results of the monthly manufacturing production and sales survey are used to calculate the volume of manufacturing production indices in order to estimate the gross domestic product (GDP) and its components, which in turn are used to develop and monitor government policy. These indices provide an indicator of the real level of manufacturing activity in the economy.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Special Data Dissemination Standard of the IMF</b> | <ol style="list-style-type: none"> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Scope of the survey</b>                            | <ol style="list-style-type: none"> <li>7 This survey covers manufacturing enterprises, i.e. those conducting activities in - <ul style="list-style-type: none"> <li>• the manufacturing, processing, making or packing of products;</li> <li>• the slaughtering of animals, including poultry; and</li> <li>• installation, assembly, completion, repair and related work.</li> </ul> </li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Classification</b>                                 | <ol style="list-style-type: none"> <li>8 The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities</i> (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 <i>International Standard Industrial Classification of all Economic Activities</i> (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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Collection rate</b>                                | <ol style="list-style-type: none"> <li>9 The preliminary collection rate for the survey on manufacturing production and sales for May 2017 was 90,7%. The improved collection rate for April 2017 was 92,3%.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Statistical unit</b>                               | <ol style="list-style-type: none"> <li>10 The statistical unit for which information is compiled and published is an 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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Revised figures</b>                                | <ol style="list-style-type: none"> <li>11 Revised figures are mainly due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures, as indicated in the relevant tables, are subject to change and when revised will not be indicated as such.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

- Related publications** 12 Users may also wish to refer to *Stats in Brief* available from Stats SA.
- Rounding-off of figures** 13 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.
- Historical data** 14 Historical manufacturing data are available on the Stats SA webpage. Click on the following link ([Time series data](#)) to access the data electronically.
- Past publications** 15 Past manufacturing releases are available on the Stats SA webpage. Click on the following link ([Past publications](#)) to access the releases electronically.

## Technical notes

- Survey methodology and design** 1 The survey is conducted monthly. Questionnaires are sent to a sample of 3 005 enterprises from a population of 45 966 manufacturing 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 on non-respondents.
- 2 A stratified random sample was drawn at the Standard Industrial Classification (SIC) three-digit level in April 2016 from Stats SA's business sampling frame (BSF). Strata were formed using a combination of the SIC and the measure of size classes for enterprises (see point 3 below).

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** 3 Each manufacturing major group is divided into four size groups. All large enterprises (size group one) are completely enumerated. Simple random sampling is applied to medium (size group two) and to small (size group three and four) 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 group two, three and four of that major group to reflect the total value of sales of the major group.

### Measure of size classes (Rand)

| Enterprise size | Size group | Lower limits | Upper limits |
|-----------------|------------|--------------|--------------|
| Very small      | 4          | 1 878 106    | 15 000 000   |
| Small           | 3          | 15 000 001   | 39 000 000   |
| Medium          | 2          | 39 000 001   | 153 000 000  |
| Large           | 1          | 153 000 001  |              |

- Sample weighting** 4 For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form major group and division estimates. These procedures are consistent with international best practice.
- Index of the volume of manufacturing production** 5 The index of the 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 current base period is 2015. The production in the

base period is set at 100.

### Calculation of production index

- 6 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.
- 7 More direct indicators are used for the value of production of the following major groups:
  - 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 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).

### Index weighting

- 8 For indices, a weight is calculated for every major group according to the value added of the major group (i.e. output of a major group minus intermediate consumption) relative to the total value added of the manufacturing industry as a whole, based on the results of the most recent census of manufacturing, large sample survey (LSS) of the manufacturing industry or national accounts (NA) value added data. The production indices of all divisions are multiplied by the applicable weights and aggregated to produce the index for the total volume of manufacturing production. Weights between census/LSS/NA years are fixed. The table below reflects the period and the census/LSS/NA which were used as base year for the given period.

| Period       | Source                       |
|--------------|------------------------------|
| 1998 to 2000 | 1996 Census of manufacturing |
| 2001 to 2004 | 2001 LSS                     |
| 2005 to 2009 | 2005 LSS                     |
| 2010 to 2017 | National accounts            |

- 9 The weights reflect the importance of the major group/division to the total manufacturing industry. 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 G – Weights by division and major group**

| Manufacturing division and major group                                                | Weights used for manufacturing indices by period |                                                |                                                       |
|---------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------|-------------------------------------------------------|
|                                                                                       | 2013<br>(based on value added for 2013)          | 2014<br>(based on value added for 2013 – 2014) | 2015 – 2017<br>(based on value added for 2013 – 2015) |
| <b>Food and beverages</b>                                                             | <b>24,53</b>                                     | <b>24,72</b>                                   | <b>25,15</b>                                          |
| Meat, fish, fruit, etc.                                                               | 5,99                                             | 6,26                                           | 6,39                                                  |
| Dairy products                                                                        | 1,81                                             | 1,84                                           | 1,89                                                  |
| Grain mill products                                                                   | 2,61                                             | 2,75                                           | 2,86                                                  |
| Other food products                                                                   | 7,78                                             | 7,61                                           | 7,62                                                  |
| Beverages                                                                             | 6,34                                             | 6,26                                           | 6,39                                                  |
| <b>Textiles, clothing, leather and footwear</b>                                       | <b>3,34</b>                                      | <b>3,33</b>                                    | <b>3,28</b>                                           |
| Textiles                                                                              | 0,89                                             | 0,86                                           | 0,83                                                  |
| Other textile products                                                                | 0,36                                             | 0,40                                           | 0,41                                                  |
| Knitted, crocheted articles                                                           | 0,09                                             | 0,09                                           | 0,09                                                  |
| Wearing apparel                                                                       | 1,13                                             | 1,12                                           | 1,10                                                  |
| Leather and leather products                                                          | 0,50                                             | 0,50                                           | 0,49                                                  |
| Footwear                                                                              | 0,37                                             | 0,36                                           | 0,36                                                  |
| <b>Wood and wood products, paper, publishing and printing</b>                         | <b>12,62</b>                                     | <b>11,73</b>                                   | <b>11,62</b>                                          |
| Sawmilling and planing of wood                                                        | 1,81                                             | 1,70                                           | 1,71                                                  |
| Products of wood                                                                      | 2,47                                             | 2,29                                           | 2,37                                                  |
| Paper and paper products                                                              | 4,96                                             | 4,44                                           | 4,33                                                  |
| Publishing                                                                            | 1,55                                             | 1,52                                           | 1,49                                                  |
| Printing, recorded media                                                              | 1,83                                             | 1,78                                           | 1,72                                                  |
| <b>Petroleum, chemical products, rubber and plastic products</b>                      | <b>23,58</b>                                     | <b>24,04</b>                                   | <b>24,01</b>                                          |
| Coke, petroleum products and nuclear fuel                                             | 9,01                                             | 9,34                                           | 9,29                                                  |
| Basic chemicals                                                                       | 4,08                                             | 4,26                                           | 4,36                                                  |
| Other chemical products                                                               | 6,21                                             | 6,11                                           | 6,16                                                  |
| Rubber products                                                                       | 1,35                                             | 1,37                                           | 1,34                                                  |
| Plastic products                                                                      | 2,93                                             | 2,96                                           | 2,86                                                  |
| <b>Glass and non-metallic mineral products</b>                                        | <b>4,15</b>                                      | <b>4,14</b>                                    | <b>3,90</b>                                           |
| Glass and glass products                                                              | 0,83                                             | 0,78                                           | 0,74                                                  |
| Non-metallic mineral products                                                         | 3,32                                             | 3,36                                           | 3,16                                                  |
| <b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b> | <b>18,77</b>                                     | <b>18,69</b>                                   | <b>18,72</b>                                          |
| Basic iron and steel products                                                         | 3,27                                             | 3,27                                           | 3,44                                                  |
| Non-ferrous metal products (including precious metals)                                | 3,11                                             | 2,93                                           | 2,73                                                  |
| Structural metal products                                                             | 1,83                                             | 1,83                                           | 1,86                                                  |
| Other fabricated metal products                                                       | 3,92                                             | 3,86                                           | 3,86                                                  |
| General purpose machinery                                                             | 2,37                                             | 2,46                                           | 2,51                                                  |
| Special purpose machinery                                                             | 3,44                                             | 3,52                                           | 3,51                                                  |
| Household appliances                                                                  | 0,83                                             | 0,82                                           | 0,81                                                  |
| <b>Electrical machinery</b>                                                           | <b>1,67</b>                                      | <b>1,65</b>                                    | <b>1,65</b>                                           |
| <b>Radio, television and communication apparatus and professional equipment</b>       | <b>1,55</b>                                      | <b>1,63</b>                                    | <b>1,61</b>                                           |
| Radio, television and communication apparatus                                         | 0,90                                             | 0,96                                           | 0,93                                                  |
| Professional equipment                                                                | 0,65                                             | 0,67                                           | 0,68                                                  |
| <b>Motor vehicles, parts and accessories and other transport equipment</b>            | <b>6,85</b>                                      | <b>6,91</b>                                    | <b>6,86</b>                                           |
| Motor vehicles                                                                        | 2,47                                             | 2,44                                           | 2,43                                                  |
| Bodies for motor vehicles, trailers and semi-trailers                                 | 0,44                                             | 0,49                                           | 0,46                                                  |
| Parts and accessories                                                                 | 2,78                                             | 2,78                                           | 2,76                                                  |
| Other transport equipment                                                             | 1,16                                             | 1,20                                           | 1,21                                                  |
| <b>Furniture and other manufacturing</b>                                              | <b>2,94</b>                                      | <b>3,16</b>                                    | <b>3,20</b>                                           |
| Furniture                                                                             | 1,06                                             | 1,07                                           | 1,09                                                  |
| Other manufacturing groups                                                            | 1,88                                             | 2,09                                           | 2,11                                                  |
| <b>Total</b>                                                                          | <b>100</b>                                       | <b>100</b>                                     | <b>100</b>                                            |

|                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Seasonal adjustment</b>                     | <b>10</b> | Seasonally adjusted estimates of all major groups are generated each month, using the X-12 Seasonal Adjustment Program developed by the US Bureau of the Census, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be 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. The X-12-ARIMA procedure for manufacturing production and sales is described in more detail on the Stats SA website: <a href="#">Click to Download Seasonal adjustment Manufacturing March 2016</a> |
| <b>Trend cycle</b>                             | <b>11</b> | The trend is the long-term pattern or movement of a time series. The X-12 Seasonal Adjustment Programme is used for smoothing seasonally adjusted estimates to estimates of the underlying trend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Reliability of estimates</b>                | <b>12</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                | <b>13</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Month-on-month percentage change</b>        | <b>14</b> | The month-on-month percentage change in a variable for any given month is the change between that month and the previous month, expressed as a percentage of the latter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Year-on-year (annual) percentage change</b> | <b>15</b> | The year-on-year percentage change in a variable for any given period is the change between that period and the corresponding period of the previous year, expressed as a percentage of the latter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Index contribution (percentage points)</b>  | <b>16</b> | The contribution (percentage points) of a major group or division to the total manufacturing production percentage change for a given period is calculated by multiplying the difference in the index of each major group or division by the weight of the major group or division and then dividing by the previous period total manufacturing index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Sales contribution (percentage points)</b>  | <b>17</b> | The contribution (percentage points) of a division or major group to the percentage change in total manufacturing sales for a given period is calculated by multiplying the percentage change of each major group or division with its percentage contribution to the total sales of the previous period, divided by 100.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 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.

**Industry** An industry is made up of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the *System of National Accounts* (SNA) in the same way as in the *Standard Industrial Classification of all Economic Activities* (SIC), Fifth Edition, Report No. 09-90-02 of January 1993.

**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.

## Symbols and abbreviations

|          |                                                               |
|----------|---------------------------------------------------------------|
| BSF      | Business sampling frame                                       |
| GDP      | Gross domestic product                                        |
| IMF      | International Monetary Fund                                   |
| ISIC     | International Standard Industrial Classification              |
| LSS      | Large sample survey                                           |
| NA       | National accounts                                             |
| PPI      | Producer price index                                          |
| Rm       | R million                                                     |
| SIC      | Standard Industrial Classification of all Economic Activities |
| SARS     | South African Revenue Service                                 |
| SDDS     | Special Data Dissemination Standard                           |
| Stats SA | Statistics South Africa                                       |
| VAT      | Value added tax                                               |
| *        | Revised figures                                               |

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## 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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