

**STATISTICAL RELEASE**  
**P3041.2**

**Manufacturing: Production and sales**  
**(Preliminary)**

**July 2018**

The results published today are based on a new sample. This is an annual procedure which typically affects the level of sales. To avoid breaks in time series and to minimise revisions to historical growth rates, historical sales levels were revised (i.e. they were linked to the estimates based on the new sample).

**Embargoed until:**  
**11 September 2018**  
**13:00**

**ENQUIRIES:**  
Nicolai Claassen  
Tel: (012) 310 8007

**FORTHCOMING ISSUE:**  
August 2018

**EXPECTED RELEASE DATE:**  
11 October 2018

[www.statssa.gov.za](http://www.statssa.gov.za)  
[info@statssa.gov.za](mailto:info@statssa.gov.za)  
T +27 12 310 8911  
F +27 12 310 8500

Private Bag X44, Pretoria, 0001, South Africa  
ISibalo House, Koch Street, Salvokop, Pretoria, 0002

## Contents

<b>Production: results for July 2018</b> .....	<b>2</b>
Table A – Key growth rates in the volume of manufacturing production .....	2
Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2015=100) .....	3
Figure 1 – Volume of manufacturing production (Base: 2015=100).....	4
Figure 2 – Volume of manufacturing production (Base: 2015=100): year-on-year percentage change .....	4
<b>Sales: results for July 2018</b> .....	<b>5</b>
Table C – Key growth rates in manufacturing sales at current prices .....	5
Table D – Seasonally adjusted manufacturing sales at current prices for the latest three months by division .....	5
<b>Note: Changes to the monthly current indicator survey and the impact on the statistical series</b> .....	<b>6</b>
Table E – Total sales for previous and new samples for the manufacturing industry – April to June 2018.....	6
Figure A – Total value of sales of manufactured products: monthly levels of previous and new samples for .....	6
Table F – Manufacturing sales for previous and new samples by division: April to June 2018 .....	7
<b>Tables</b> .....	<b>8</b>
Table 1 – Index of the volume of manufacturing production (Base: 2015=100).....	8
Table 2 – Year-on-year percentage change in the volume of manufacturing production .....	8
Table 3 – Seasonally adjusted volume of manufacturing production.....	8
Table 4 – Index of the volume of manufacturing production by division and major group (Base: 2015=100) .....	9
Table 5 – Year-on-year percentage change in the volume of manufacturing production by division and major group (Base: 2015=100).....	10
Table 6 – Contribution of each division and major group to the year-on-year percentage change in the volume of manufacturing production (percentage points) .....	11
Table 7 – Seasonally adjusted index of the volume of manufacturing production by division and major group (Base: 2015=100) .....	12
Table 8 – Manufacturing sales at current prices (R million) .....	13
Table 9 – Year-on-year percentage change in manufacturing sales at current prices.....	13
Table 10 – Seasonally adjusted manufacturing sales at current prices .....	13
Table 11 – Manufacturing sales at current prices by division and major group (R million) .....	14
Table 12 – Year-on-year percentage change in manufacturing sales at current prices by division and major group.....	15
Table 13 – Contribution of each division and major group to the year-on-year percentage change in manufacturing sales at current prices (percentage points) .....	16
Table 14 – Seasonally adjusted manufacturing sales at current prices by division and major group (R million) .....	17
<b>Survey information</b> .....	<b>18</b>
<b>Technical notes</b> .....	<b>19</b>
Table G – Weights by division and major group.....	21
<b>Glossary</b> .....	<b>23</b>
<b>Technical enquiries</b> .....	<b>23</b>
<b>General information</b> .....	<b>24</b>

## Production: results for July 2018

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

	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18
Year-on-year % change, unadjusted	0,5	-1,8	1,2	2,1	0,6	2,9
Month-on-month % change, seasonally adjusted	-2,4	0,6	-0,4	1,3	0,2	1,6
3-month % change, seasonally adjusted <sup>1</sup>	0,2	-2,1	-2,9	-1,4	0,1	1,9

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

Manufacturing production increased by 2,9% in July 2018 compared with July 2017. The largest contributions were made by the following divisions:

- food and beverages (5,8% and contributing 1,5 percentage points);
- motor vehicles, parts and accessories and other transport equipment (8,3% and contributing 0,6 of a percentage point); and
- wood and wood products, paper, publishing and printing (3,9% and contributing 0,4 of a percentage point); – see Tables 5 and 6.

Seasonally adjusted manufacturing production increased by 1,6% in July 2018 compared with June 2018. This followed month-on-month changes of 0,2% in June 2018 and 1,3% in May 2018 – see Table A.

Seasonally adjusted manufacturing production increased by 1,9% in the three months ended July 2018 compared with the previous three months. Six of the ten manufacturing divisions reported positive growth rates over this period.

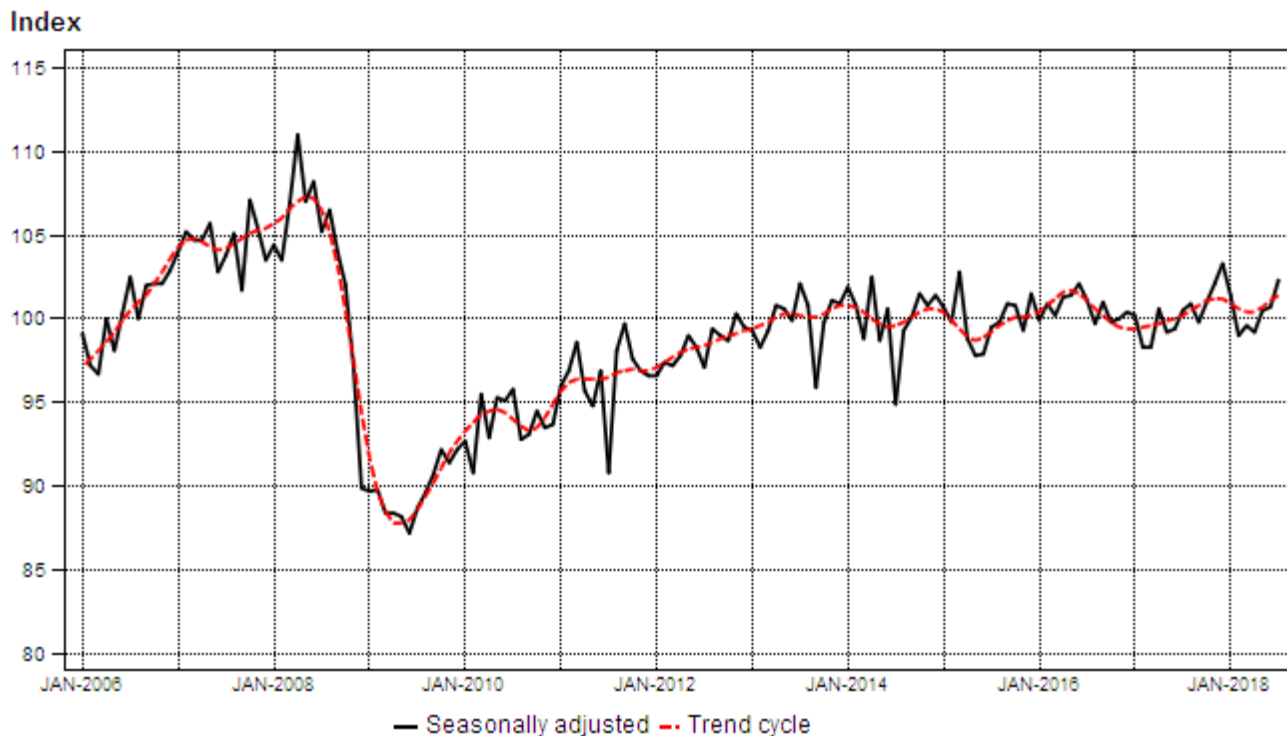
The largest contributions in the three months ended July 2018 compared with the previous three months were made by the following divisions:

- petroleum, chemicals, rubber and plastic products (3,0% and contributing 0,7 of a percentage point);
- basic iron and steel, non-ferrous metal products, metal products and machinery (2,6% and contributing 0,5 of a percentage point);
- wood and wood products, paper, publishing and printing (3,3% and contributing 0,4 of a percentage point); and
- motor vehicles, parts and accessories and other transport equipment (3,5% and contributing 0,3 of a percentage point) – see Table B.

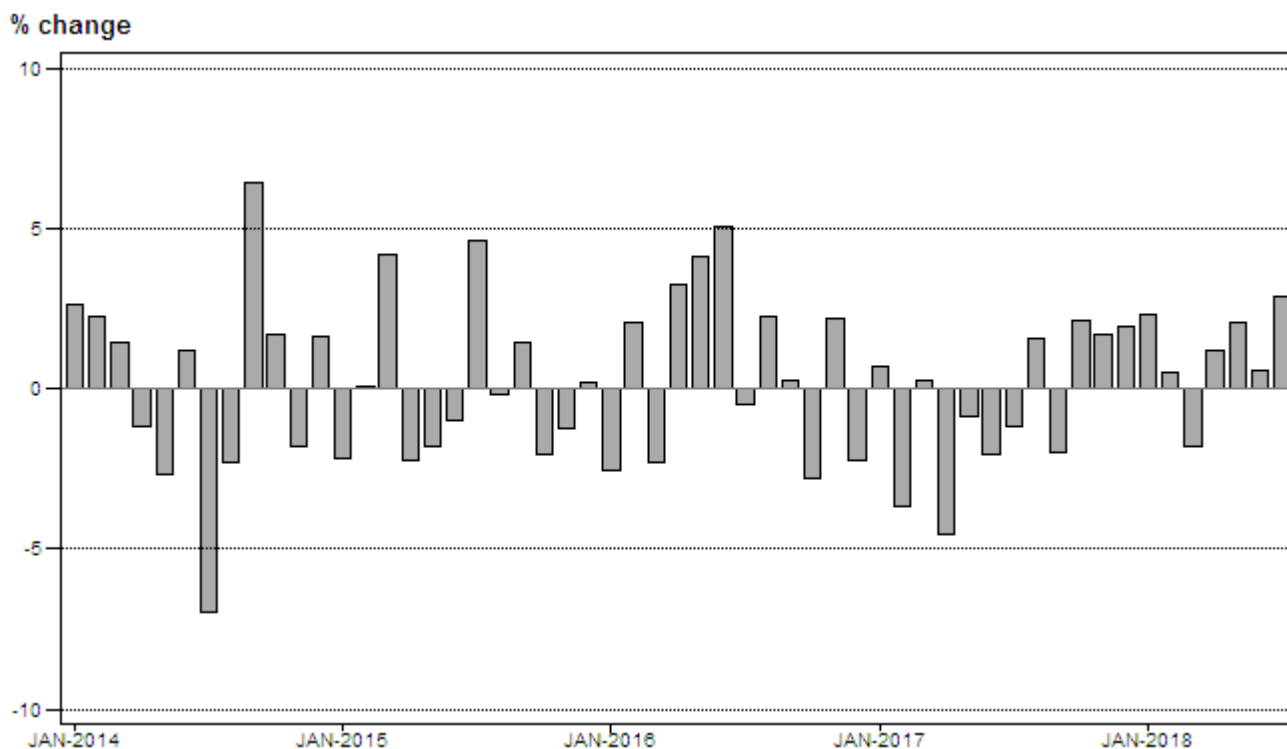
**Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2015=100)**

Manufacturing division and major group	Weights	Feb – Apr 2018	May – Jul 2018	% change between Feb – Apr 2018 and May – Jul 2018	Contribution (% points) to the total % change
<b>Food and beverages</b>	<b>25,78</b>	<b>105,0</b>	<b>105,5</b>	<b>0,5</b>	<b>0,1</b>
Meat, fish, fruit, etc.	6,59	99,7	102,6	2,9	0,2
Dairy products	2,00	104,7	103,2	-1,4	0,0
Grain mill products	3,12	100,1	98,0	-2,1	-0,1
Other food products	7,74	112,3	113,9	1,4	0,1
Beverages	6,33	103,9	102,4	-1,4	-0,1
<b>Textiles, clothing, leather and footwear</b>	<b>3,21</b>	<b>90,5</b>	<b>93,2</b>	<b>3,0</b>	<b>0,1</b>
Textiles	0,80	100,5	106,3	5,8	0,0
Other textile products	0,41	100,4	102,7	2,3	0,0
Knitted, crocheted articles	0,09	96,2	95,8	-0,4	0,0
Wearing apparel	1,08	85,0	87,8	3,3	0,0
Leather and leather products	0,48	81,6	79,6	-2,5	0,0
Footwear	0,35	84,0	87,4	4,0	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,28</b>	<b>96,1</b>	<b>99,3</b>	<b>3,3</b>	<b>0,4</b>
Sawmilling and planing of wood	1,69	103,5	105,5	1,9	0,0
Products of wood	2,42	103,7	106,3	2,5	0,1
Paper and paper products	4,09	94,5	99,4	5,2	0,2
Publishing	1,45	83,2	87,2	4,8	0,1
Printing, recorded media	1,63	93,1	94,0	1,0	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,82</b>	<b>95,5</b>	<b>98,4</b>	<b>3,0</b>	<b>0,7</b>
Coke, petroleum products and nuclear fuel	9,18	90,1	95,9	6,4	0,5
Basic chemicals	4,41	102,1	101,4	-0,7	0,0
Other chemical products	6,15	96,0	96,7	0,7	0,0
Rubber products	1,30	97,5	97,7	0,2	0,0
Plastic products	2,78	100,8	105,9	5,1	0,1
<b>Glass and non-metallic mineral products</b>	<b>3,53</b>	<b>99,6</b>	<b>98,2</b>	<b>-1,4</b>	<b>0,0</b>
Glass and glass products	0,69	105,8	107,0	1,1	0,0
Non-metallic mineral products	2,84	98,2	96,1	-2,1	-0,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,74</b>	<b>100,5</b>	<b>103,1</b>	<b>2,6</b>	<b>0,5</b>
Basic iron and steel products	3,52	111,2	114,2	2,7	0,1
Non-ferrous metal products	2,60	103,5	104,9	1,4	0,0
Structural metal products	1,92	84,8	93,1	9,8	0,2
Other fabricated metal products	3,84	102,7	106,1	3,3	0,1
General purpose machinery	2,57	97,8	98,9	1,1	0,0
Special purpose machinery	3,50	97,4	98,6	1,2	0,0
Household appliances	0,79	91,3	91,0	-0,3	0,0
<b>Electrical machinery</b>	<b>1,63</b>	<b>84,3</b>	<b>82,9</b>	<b>-1,7</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,59</b>	<b>96,8</b>	<b>94,9</b>	<b>-2,0</b>	<b>0,0</b>
Radio, television and communication apparatus	0,92	102,6	99,5	-3,0	0,0
Professional equipment	0,67	89,0	88,7	-0,3	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,20</b>	<b>101,9</b>	<b>105,5</b>	<b>3,5</b>	<b>0,3</b>
Motor vehicles	2,60	94,7	99,0	4,5	0,1
Bodies for motor vehicles, trailers and semi-trailers	0,48	110,9	112,3	1,3	0,0
Parts and accessories	2,89	111,2	114,4	2,9	0,1
Other transport equipment	1,23	91,8	95,7	4,2	0,0
<b>Furniture and other manufacturing</b>	<b>3,22</b>	<b>99,6</b>	<b>97,9</b>	<b>-1,7</b>	<b>-0,1</b>
Furniture	1,08	97,0	95,9	-1,1	0,0
Other manufacturing groups	2,14	101,0	98,9	-2,1	0,0
<b>Total</b>	<b>100</b>	<b>99,3</b>	<b>101,2</b>	<b>1,9</b>	<b>1,9</b>

**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 July 2018****Table C – Key growth rates in manufacturing sales at current prices**

	<b>Feb-18</b>	<b>Mar-18</b>	<b>Apr-18</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>
Year-on-year % change, unadjusted	6,7	1,3	4,5	6,7	5,0	11,3
Month-on-month % change, seasonally adjusted	0,9	0,4	-3,6	6,4	-0,2	2,9
3-month % change, seasonally adjusted <sup>1</sup>	0,2	-0,9	-1,9	0,2	1,0	4,8

<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 2,9% in July 2018 compared with June 2018. This followed month-on-month changes of -0,2% in June 2018 and 6,4% in May 2018 – see Table C.

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

<b>Manufacturing division</b>	<b>Feb – Apr 2018</b> <b>(R million)</b>	<b>May – Jul 2018</b> <b>(R million)</b>	<b>% change between Feb – Apr 2018 and May – Jul 2018</b>	<b>Contribution (% points) to the total % change</b>
Food and beverages	130 654	131 872	0,9	0,2
Textiles, clothing, leather and footwear	13 901	14 365	3,3	0,1
Wood and wood products, paper, publishing and printing	40 850	42 879	5,0	0,4
Petroleum, chemical products, rubber and plastic products	115 716	122 595	5,9	1,2
Glass and non-metallic mineral products	16 849	16 844	0,0	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	121 232	129 598	6,9	1,5
Electrical machinery	13 366	13 474	0,8	0,0
Radio, television and communication apparatus and professional equipment	6 322	6 347	0,4	0,0
Motor vehicles, parts and accessories and other transport equipment	73 349	79 801	8,8	1,2
Furniture and other manufacturing	21 555	22 869	6,1	0,2
<b>Total</b>	<b>553 795</b>	<b>580 640</b>	<b>4,8</b>	<b>4,8</b>

**Risenga Maluleke**  
**Statistician-General**

**Note: Changes to the monthly current indicator survey and the impact on the statistical series**

**Business register and samples**

Today Statistics South Africa (Stats SA) publishes results for the monthly survey of manufacturing production and sales from a new sample drawn in April 2018, which replaces the previous sample that was drawn in April 2017. The sample was drawn from a business register of enterprises with an annual turnover of at least R1 842 288 and that are required to register with the South African Revenue Service (SARS) for value added tax.

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

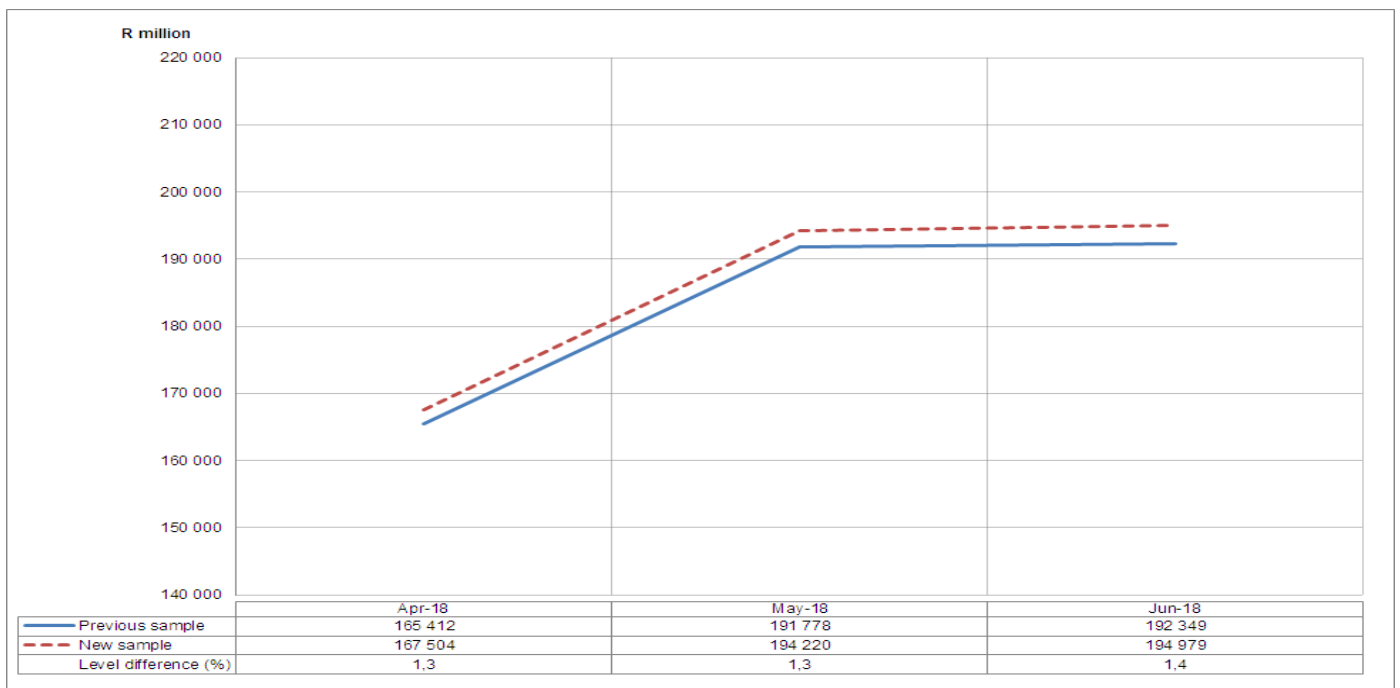
**Comparison of total sales between the previous and new samples of the manufacturing industry**

The reported level of total sales for the monthly survey of the manufacturing industry for the months April to June 2018 based on the new sample was 1,3% (R7 164 million) higher than the level of total sales recorded for the previous sample – see Table E and Figure A. The previous sample was drawn in April 2017 and was operational for the last half of 2017 and the first half of 2018.

**Table E – Total sales for previous and new samples for the manufacturing industry – April to June 2018**

Manufacturing industry	Previous sample (R million)	New sample (R million)	Difference	
			(R million)	(%)
	549 539	556 703	7 164	1,3

**Figure A – Total value of sales of manufactured products: monthly levels of previous and new samples for April to June 2018**



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

The differences in sales between the previous and new samples by manufacturing division are shown in Table F.

**Table F – Manufacturing sales for previous and new samples by division: April to June 2018**

Manufacturing division	Previous sample (R million)	New sample (R million)	Difference	
			(R million)	(%) <sup>1</sup>
Food and beverages	128 201	126 436	-1 765	-1,4
Textiles, clothing, leather and footwear	13 920	13 852	-68	-0,5
Wood and wood products, paper, publishing and printing	38 426	40 189	1 763	4,6
Petroleum, chemical products, rubber and plastic products	114 581	116 135	1 554	1,4
Glass and non-metallic mineral products	16 393	16 748	355	2,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	121 001	125 403	4 402	3,6
Electrical machinery	13 555	13 322	-233	-1,7
Radio, television and communication apparatus and professional equipment	6 021	5 885	-136	-2,3
Motor vehicles, parts and accessories and other transport equipment	76 089	76 682	593	0,8
Furniture and other manufacturing	21 354	22 051	697	3,3
<b>Total manufacturing</b>	<b>549 539</b>	<b>556 703</b>	<b>7 164</b>	<b>1,3</b>

<sup>1</sup> The percentage difference is the new sample minus the previous sample, divided by the previous sample, multiplied by 100.

The largest percentage differences were in the following manufacturing divisions:

- wood and wood products, paper, publishing and printing (4,6% or R1 763 million higher in the new sample);
- basic iron and steel, non-ferrous metal products, metal products and machinery (3,6% or R4 402 million higher in the new sample);
- furniture and 'other' manufacturing (3,3% or R697 million higher in the new sample); and
- radio, television and communication apparatus and professional equipment (2,3% or R136 million lower in the new sample).

### Backcasting

To avoid breaks in time series and to minimise revisions to historical growth rates, historical sales levels were revised (i.e. they were linked to the estimates based on the new sample).

## Tables

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

Month	2012	2013	2014	2015	2016	2017	2018 <sup>1</sup>
Jan	83,4	86,6	88,9	87,0	84,8	85,4	87,4
Feb	95,9	93,4	95,5	95,6	97,6	94,0	94,5
Mar	99,7	98,2	99,6	103,8	101,4	101,7	99,9
Apr	89,3	95,6	94,5	92,4	95,4	91,1	92,2
May	100,3	101,9	99,2	97,4	101,4	100,5	102,6
Jun	98,4	98,6	99,8	98,8	103,8	101,7	102,3
Jul	99,6	104,8	97,5	102,0	101,5	100,3	103,2
Aug	103,2	103,8	101,4	101,2	103,5	105,1	
Sep	101,1	99,1	105,5	107,0	107,3	105,2	
Oct	109,5	111,3	113,2	110,9	107,8	110,1	
Nov	113,6	113,1	111,1	109,7	112,1	114,0	
Dec	89,3	92,4	93,9	94,1	92,0	93,8	
<b>Total</b>	<b>98,6</b>	<b>99,9</b>	<b>100,0</b>	<b>100,0</b>	<b>100,7</b>	<b>100,2</b>	

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

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

Month	2013	2014	2015	2016	2017	2018	2018 year-to-date
Jan	3,8	2,7	-2,1	-2,5	0,7	2,3	2,3
Feb	-2,6	2,2	0,1	2,1	-3,7	0,5	1,4
Mar	-1,5	1,4	4,2	-2,3	0,3	-1,8	0,2
Apr	7,1	-1,2	-2,2	3,2	-4,5	1,2	0,4
May	1,6	-2,6	-1,8	4,1	-0,9	2,1	0,8
Jun	0,2	1,2	-1,0	5,1	-2,0	0,6	0,8
Jul	5,2	-7,0	4,6	-0,5	-1,2	2,9	1,0
Aug	0,6	-2,3	-0,2	2,3	1,5		
Sep	-2,0	6,5	1,4	0,3	-2,0		
Oct	1,6	1,7	-2,0	-2,8	2,1		
Nov	-0,4	-1,8	-1,3	2,2	1,7		
Dec	3,5	1,6	0,2	-2,2	2,0		
<b>Total</b>	<b>1,3</b>	<b>0,1</b>	<b>0,0</b>	<b>0,7</b>	<b>-0,5</b>		

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

Month	Index (Base: 2015=100)				Month-on-month % change			
	2015	2016	2017	2018	2015	2016	2017	2018
Jan	100,7	99,9	100,2	101,4	-0,7	-1,6	-0,2	-1,8
Feb	99,8	100,9	98,3	99,0	-0,9	1,0	-1,9	-2,4
Mar	102,8	100,2	98,3	99,6	3,0	-0,7	0,0	0,6
Apr	98,8	101,3	100,6	99,2	-3,9	1,1	2,3	-0,4
May	97,8	101,4	99,2	100,5	-1,0	0,1	-1,4	1,3
Jun	97,9	102,1	99,4	100,7	0,1	0,7	0,2	0,2
Jul	99,5	101,1	100,5	102,3	1,6	-1,0	1,1	1,6
Aug	99,8	99,7	100,9		0,3	-1,4	0,4	
Sep	100,9	101,0	99,8		1,1	1,3	-1,1	
Oct	100,8	99,8	101,0		-0,1	-1,2	1,2	
Nov	99,3	100,0	102,1		-1,5	0,2	1,1	
Dec	101,5	100,4	103,3		2,2	0,4	1,2	

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

Manufacturing division and major group	Weights	Feb-18	Mar-18	Apr-18	<sup>1</sup> May-18	<sup>1</sup> Jun-18	<sup>1</sup> Jul-18
<b>Food and beverages</b>	<b>25,78</b>	<b>92,6</b>	<b>101,7</b>	<b>97,4</b>	<b>105,4</b>	<b>106,2</b>	<b>103,8</b>
Meat, fish, fruit, etc.	6,59	93,7	101,0	93,4	104,7	105,2	100,9
Dairy products	2,00	97,2	108,0	97,5	95,8	94,1	97,0
Grain mill products	3,12	90,4	101,9	94,6	99,6	99,9	99,8
Other food products	7,74	90,7	96,7	108,9	119,8	124,6	121,7
Beverages	6,33	93,3	106,3	88,8	94,3	91,8	89,2
<b>Textiles, clothing, leather and footwear</b>	<b>3,21</b>	<b>90,9</b>	<b>91,8</b>	<b>89,5</b>	<b>92,0</b>	<b>90,7</b>	<b>99,2</b>
Textiles	0,80	105,3	105,2	102,5	109,8	109,7	111,9
Other textile products	0,41	101,1	103,6	98,3	108,5	104,7	104,5
Knitted, crocheted articles	0,09	97,0	102,7	101,2	104,5	98,3	100,3
Wearing apparel	1,08	81,6	83,7	80,7	79,0	78,4	104,6
Leather and leather products	0,48	82,9	77,7	85,0	83,6	83,8	68,7
Footwear	0,35	84,0	89,1	79,5	80,4	75,7	89,2
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,28</b>	<b>93,8</b>	<b>96,2</b>	<b>84,8</b>	<b>96,3</b>	<b>100,3</b>	<b>102,1</b>
Sawmilling and planing of wood	1,69	101,5	115,4	93,8	116,0	104,2	111,9
Products of wood	2,42	98,6	109,0	96,6	102,6	111,9	108,3
Paper and paper products	4,09	95,9	90,2	83,3	94,8	101,2	99,7
Publishing	1,45	78,0	75,1	70,3	75,8	83,6	92,6
Printing, recorded media	1,63	87,8	91,0	74,5	88,5	91,6	97,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,82</b>	<b>89,0</b>	<b>92,8</b>	<b>94,3</b>	<b>99,2</b>	<b>97,5</b>	<b>100,3</b>
Coke, petroleum products and nuclear fuel	9,18	82,4	81,9	106,1	89,7	95,8	102,2
Basic chemicals	4,41	90,4	100,7	87,5	113,6	99,2	96,2
Other chemical products	6,15	90,5	98,4	85,0	99,7	96,2	96,0
Rubber products	1,30	100,4	104,2	89,9	111,5	98,0	105,7
Plastic products	2,78	99,8	98,2	89,2	101,2	103,0	107,5
<b>Glass and non-metallic mineral products</b>	<b>3,53</b>	<b>91,6</b>	<b>96,1</b>	<b>92,6</b>	<b>102,3</b>	<b>105,3</b>	<b>107,9</b>
Glass and glass products	0,69	94,1	94,7	96,9	107,9	106,0	104,9
Non-metallic mineral products	2,84	91,0	96,5	91,5	100,9	105,1	108,6
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,74</b>	<b>100,1</b>	<b>108,1</b>	<b>94,5</b>	<b>107,4</b>	<b>105,7</b>	<b>105,2</b>
Basic iron and steel products	3,52	109,1	120,5	114,9	126,1	116,4	108,0
Non-ferrous metal products	2,60	104,1	109,9	97,3	111,2	105,2	102,7
Structural metal products	1,92	88,4	88,2	73,1	95,0	97,2	101,6
Other fabricated metal products	3,84	100,7	107,4	96,6	113,3	107,1	112,1
General purpose machinery	2,57	95,9	100,0	87,2	100,9	105,3	99,1
Special purpose machinery	3,50	98,9	113,8	88,3	93,0	102,6	106,8
Household appliances	0,79	90,6	99,7	87,5	96,9	89,3	88,6
<b>Electrical machinery</b>	<b>1,63</b>	<b>84,6</b>	<b>100,2</b>	<b>71,7</b>	<b>86,5</b>	<b>89,3</b>	<b>84,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,59</b>	<b>95,4</b>	<b>97,4</b>	<b>85,1</b>	<b>92,2</b>	<b>88,0</b>	<b>95,8</b>
Radio, television and communication apparatus	0,92	95,9	99,2	86,3	94,9	88,0	99,4
Professional equipment	0,67	94,7	94,9	83,5	88,5	88,0	90,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,20</b>	<b>105,2</b>	<b>114,7</b>	<b>85,7</b>	<b>114,8</b>	<b>109,0</b>	<b>111,6</b>
Motor vehicles	2,60	100,4	100,9	77,2	113,4	102,2	114,7
Bodies for motor vehicles, trailers and semi-trailers	0,48	111,8	119,4	102,0	122,1	112,1	116,2
Parts and accessories	2,89	115,2	121,8	100,2	125,7	115,0	118,8
Other transport equipment	1,23	89,6	125,2	63,1	89,5	108,0	86,3
<b>Furniture and other manufacturing</b>	<b>3,22</b>	<b>108,3</b>	<b>84,1</b>	<b>79,0</b>	<b>96,5</b>	<b>99,4</b>	<b>105,5</b>
Furniture	1,08	94,6	86,9	84,1	99,9	94,2	95,0
Other manufacturing groups	2,14	115,2	82,7	76,5	94,8	102,0	110,8
<b>Total</b>	<b>100</b>	<b>94,5</b>	<b>99,9</b>	<b>92,2</b>	<b>102,6</b>	<b>102,3</b>	<b>103,2</b>

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

**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	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18
<b>Food and beverages</b>	<b>4,6</b>	<b>5,6</b>	<b>3,0</b>	<b>4,0</b>	<b>4,1</b>	<b>5,8</b>
Meat, fish, fruit, etc.	0,9	-0,3	-0,4	3,4	5,3	6,3
Dairy products	10,1	5,5	4,4	2,4	2,3	4,1
Grain mill products	8,0	2,5	9,7	2,2	3,2	2,8
Other food products	2,5	13,6	9,9	8,6	6,0	9,0
Beverages	8,0	4,9	-5,8	-0,2	0,8	2,8
<b>Textiles, clothing, leather and footwear</b>	<b>-4,4</b>	<b>-9,9</b>	<b>0,9</b>	<b>-6,0</b>	<b>-1,2</b>	<b>3,0</b>
Textiles	-2,3	-10,3	5,0	-7,1	0,6	-0,4
Other textile products	4,3	-0,6	9,0	3,9	1,7	3,9
Knitted, crocheted articles	0,4	0,0	8,8	1,4	7,2	0,3
Wearing apparel	-5,9	-14,2	2,0	-10,9	-1,0	7,0
Leather and leather products	-7,4	-10,6	-10,1	-5,6	-5,2	0,4
Footwear	-13,7	-9,0	-8,8	-3,8	-8,4	1,8
<b>Wood and wood products, paper, publishing and printing</b>	<b>-3,5</b>	<b>-7,2</b>	<b>-4,8</b>	<b>-2,4</b>	<b>-0,5</b>	<b>3,9</b>
Sawmilling and planing of wood	-4,6	-4,1	-9,9	1,0	-6,0	-2,4
Products of wood	1,5	6,4	4,1	6,0	3,5	6,8
Paper and paper products	0,1	-15,5	-5,0	-2,5	0,8	7,7
Publishing	-14,6	-15,6	-10,7	-16,3	-7,4	2,3
Printing, recorded media	-9,2	-3,4	-8,1	-7,5	1,6	-0,6
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>-3,8</b>	<b>-6,2</b>	<b>2,8</b>	<b>4,3</b>	<b>1,1</b>	<b>0,6</b>
Coke, petroleum products and nuclear fuel	-9,2	-15,3	10,6	7,0	14,7	1,2
Basic chemicals	2,0	9,1	-4,3	7,6	-1,6	-5,4
Other chemical products	-5,3	-6,0	-5,9	-3,1	-11,7	-0,2
Rubber products	-6,5	-10,2	3,6	3,0	-9,8	5,8
Plastic products	9,4	2,9	6,6	9,2	4,9	7,7
<b>Glass and non-metallic mineral products</b>	<b>12,0</b>	<b>-6,9</b>	<b>8,9</b>	<b>0,3</b>	<b>2,0</b>	<b>6,2</b>
Glass and glass products	11,4	1,3	9,5	13,8	6,3	1,4
Non-metallic mineral products	12,2	-8,5	8,8	-2,7	1,0	7,3
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>-0,1</b>	<b>-2,5</b>	<b>0,4</b>	<b>1,3</b>	<b>-0,4</b>	<b>1,1</b>
Basic iron and steel products	-0,9	0,0	-0,3	3,2	14,1	0,1
Non-ferrous metal products	3,8	-1,3	-7,0	5,7	-4,9	-10,4
Structural metal products	-7,4	-9,3	-6,6	2,9	-10,7	8,0
Other fabricated metal products	-0,6	-0,6	9,0	3,8	0,3	6,0
General purpose machinery	-1,2	0,3	0,5	0,5	4,9	2,4
Special purpose machinery	2,5	-7,9	1,4	-9,4	-9,1	1,3
Household appliances	3,1	5,1	3,3	9,5	3,0	1,6
<b>Electrical machinery</b>	<b>-8,7</b>	<b>-2,9</b>	<b>-7,7</b>	<b>-7,5</b>	<b>-11,1</b>	<b>-9,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>-6,2</b>	<b>-12,6</b>	<b>-17,9</b>	<b>-11,4</b>	<b>-10,8</b>	<b>-9,3</b>
Radio, television and communication apparatus	-5,3	-10,6	-9,9	-8,3	-14,0	-10,9
Professional equipment	-7,4	-15,4	-27,0	-15,7	-6,2	-6,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>6,7</b>	<b>4,4</b>	<b>1,3</b>	<b>9,5</b>	<b>-2,8</b>	<b>8,3</b>
Motor vehicles	4,8	-1,0	-1,2	6,5	-8,4	6,0
Bodies for motor vehicles, trailers and semi-trailers	4,2	7,9	10,4	11,6	3,5	10,6
Parts and accessories	9,9	9,9	5,5	11,1	6,7	11,9
Other transport equipment	3,5	0,8	-11,3	12,2	-13,5	3,4
<b>Furniture and other manufacturing</b>	<b>8,3</b>	<b>6,9</b>	<b>11,0</b>	<b>-4,5</b>	<b>-3,0</b>	<b>2,2</b>
Furniture	1,7	-5,4	1,2	5,5	4,2	-0,3
Other manufacturing groups	11,3	14,7	17,3	-9,2	-6,0	3,3
<b>Total</b>	<b>0,5</b>	<b>-1,8</b>	<b>1,2</b>	<b>2,1</b>	<b>0,6</b>	<b>2,9</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	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18
<b>Food and beverages</b>	<b>25,78</b>	<b>1,1</b>	<b>1,4</b>	<b>0,8</b>	<b>1,1</b>	<b>1,1</b>	<b>1,5</b>
Meat, fish, fruit, etc.	6,59	0,1	0,0	0,0	0,2	0,3	0,4
Dairy products	2,00	0,2	0,1	0,1	0,0	0,0	0,1
Grain mill products	3,12	0,2	0,1	0,3	0,1	0,1	0,1
Other food products	7,74	0,2	0,9	0,8	0,7	0,5	0,8
Beverages	6,33	0,5	0,3	-0,4	0,0	0,0	0,2
<b>Textiles, clothing, leather and footwear</b>	<b>3,21</b>	<b>-0,1</b>	<b>-0,3</b>	<b>0,0</b>	<b>-0,2</b>	<b>0,0</b>	<b>0,1</b>
Textiles	0,80	0,0	-0,1	0,0	-0,1	0,0	0,0
Other textile products	0,41	0,0	0,0	0,0	0,0	0,0	0,0
Knitted, crocheted articles	0,09	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	1,08	-0,1	-0,1	0,0	-0,1	0,0	0,1
Leather and leather products	0,48	0,0	0,0	-0,1	0,0	0,0	0,0
Footwear	0,35	0,0	0,0	0,0	0,0	0,0	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,28</b>	<b>-0,4</b>	<b>-0,8</b>	<b>-0,5</b>	<b>-0,3</b>	<b>-0,1</b>	<b>0,4</b>
Sawmilling and planing of wood	1,69	-0,1	-0,1	-0,2	0,0	-0,1	0,0
Products of wood	2,42	0,0	0,2	0,1	0,1	0,1	0,2
Paper and paper products	4,09	0,0	-0,7	-0,2	-0,1	0,0	0,3
Publishing	1,45	-0,2	-0,2	-0,1	-0,2	-0,1	0,0
Printing, recorded media	1,63	-0,2	-0,1	-0,1	-0,1	0,0	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,82</b>	<b>-0,9</b>	<b>-1,4</b>	<b>0,7</b>	<b>1,0</b>	<b>0,3</b>	<b>0,1</b>
Coke, petroleum products and nuclear fuel	9,18	-0,8	-1,3	1,0	0,5	1,1	0,1
Basic chemicals	4,41	0,1	0,4	-0,2	0,4	-0,1	-0,2
Other chemical products	6,15	-0,3	-0,4	-0,4	-0,2	-0,8	0,0
Rubber products	1,30	-0,1	-0,2	0,0	0,0	-0,1	0,1
Plastic products	2,78	0,3	0,1	0,2	0,2	0,1	0,2
<b>Glass and non-metallic mineral products</b>	<b>3,53</b>	<b>0,4</b>	<b>-0,2</b>	<b>0,3</b>	<b>0,0</b>	<b>0,1</b>	<b>0,2</b>
Glass and glass products	0,69	0,1	0,0	0,1	0,1	0,0	0,0
Non-metallic mineral products	2,84	0,3	-0,3	0,2	-0,1	0,0	0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,74</b>	<b>0,0</b>	<b>-0,5</b>	<b>0,1</b>	<b>0,3</b>	<b>-0,1</b>	<b>0,2</b>
Basic iron and steel products	3,52	0,0	0,0	0,0	0,1	0,5	0,0
Non-ferrous metal products	2,60	0,1	0,0	-0,2	0,2	-0,1	-0,3
Structural metal products	1,92	-0,1	-0,2	-0,1	0,1	-0,2	0,1
Other fabricated metal products	3,84	0,0	0,0	0,3	0,2	0,0	0,2
General purpose machinery	2,57	0,0	0,0	0,0	0,0	0,1	0,1
Special purpose machinery	3,50	0,1	-0,3	0,0	-0,3	-0,4	0,0
Household appliances	0,79	0,0	0,0	0,0	0,1	0,0	0,0
<b>Electrical machinery</b>	<b>1,63</b>	<b>-0,1</b>	<b>0,0</b>	<b>-0,1</b>	<b>-0,1</b>	<b>-0,2</b>	<b>-0,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,59</b>	<b>-0,1</b>	<b>-0,2</b>	<b>-0,3</b>	<b>-0,2</b>	<b>-0,2</b>	<b>-0,2</b>
Radio, television and communication apparatus	0,92	-0,1	-0,1	-0,1	-0,1	-0,1	-0,1
Professional equipment	0,67	-0,1	-0,1	-0,2	-0,1	0,0	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,20</b>	<b>0,5</b>	<b>0,3</b>	<b>0,1</b>	<b>0,7</b>	<b>-0,2</b>	<b>0,6</b>
Motor vehicles	2,60	0,1	0,0	0,0	0,2	-0,2	0,2
Bodies for motor vehicles, trailers and semi-trailers	0,48	0,0	0,0	0,1	0,1	0,0	0,1
Parts and accessories	2,89	0,3	0,3	0,2	0,4	0,2	0,4
Other transport equipment	1,23	0,0	0,0	-0,1	0,1	-0,2	0,0
<b>Furniture and other manufacturing</b>	<b>3,22</b>	<b>0,3</b>	<b>0,2</b>	<b>0,3</b>	<b>-0,1</b>	<b>-0,1</b>	<b>0,1</b>
Furniture	1,08	0,0	-0,1	0,0	0,1	0,0	0,0
Other manufacturing groups	2,14	0,3	0,2	0,3	-0,2	-0,1	0,1
<b>Total</b>	<b>100</b>	<b>0,5</b>	<b>-1,8</b>	<b>1,2</b>	<b>2,1</b>	<b>0,6</b>	<b>2,9</b>

**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	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Month-on-month % change
<b>Food and beverages</b>	<b>25,78</b>	<b>105,8</b>	<b>105,3</b>	<b>104,2</b>	<b>106,5</b>	<b>105,9</b>	<b>-0,6</b>
Meat, fish, fruit, etc.	6,59	100,8	97,2	101,7	103,4	102,6	-0,8
Dairy products	2,00	103,1	104,6	103,0	102,5	104,0	1,5
Grain mill products	3,12	102,1	98,2	97,6	98,6	97,8	-0,8
Other food products	7,74	113,5	115,0	112,7	115,2	113,9	-1,1
Beverages	6,33	104,1	105,3	99,8	103,8	103,7	-0,1
<b>Textiles, clothing, leather and footwear</b>	<b>3,21</b>	<b>90,5</b>	<b>91,5</b>	<b>90,3</b>	<b>93,0</b>	<b>96,4</b>	<b>3,7</b>
Textiles	0,80	101,7	102,2	100,8	108,4	109,6	1,1
Other textile products	0,41	103,1	99,4	104,9	101,4	101,9	0,5
Knitted, crocheted articles	0,09	94,5	97,5	94,7	98,4	94,2	-4,3
Wearing apparel	1,08	84,2	85,6	82,7	85,8	94,8	10,5
Leather and leather products	0,48	79,5	83,0	79,4	80,6	78,7	-2,4
Footwear	0,35	84,1	85,8	87,0	86,0	89,3	3,8
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,28</b>	<b>95,3</b>	<b>94,6</b>	<b>97,9</b>	<b>99,2</b>	<b>100,9</b>	<b>1,7</b>
Sawmilling and planing of wood	1,69	108,3	97,9	107,6	104,1	104,9	0,8
Products of wood	2,42	105,1	103,9	104,5	107,2	107,1	-0,1
Paper and paper products	4,09	89,0	93,4	98,0	98,2	102,1	4,0
Publishing	1,45	82,1	83,0	83,0	87,0	91,5	5,2
Printing, recorded media	1,63	96,2	91,3	91,9	96,3	93,8	-2,6
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,82</b>	<b>93,5</b>	<b>100,9</b>	<b>97,8</b>	<b>96,9</b>	<b>100,5</b>	<b>3,7</b>
Coke, petroleum products and nuclear fuel	9,18	81,9	106,1	89,7	95,8	102,2	6,7
Basic chemicals	4,41	103,9	101,6	107,9	99,5	96,8	-2,7
Other chemical products	6,15	98,7	94,8	98,5	94,5	97,2	2,9
Rubber products	1,30	100,3	95,8	100,5	91,0	101,6	11,6
Plastic products	2,78	101,1	98,7	106,1	104,4	107,1	2,6
<b>Glass and non-metallic mineral products</b>	<b>3,53</b>	<b>99,7</b>	<b>97,9</b>	<b>95,3</b>	<b>99,3</b>	<b>100,0</b>	<b>0,7</b>
Glass and glass products	0,69	104,8	107,8	111,8	105,9	103,3	-2,5
Non-metallic mineral products	2,84	98,5	95,6	91,4	97,8	99,2	1,4
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,74</b>	<b>101,4</b>	<b>99,2</b>	<b>103,2</b>	<b>102,5</b>	<b>103,5</b>	<b>1,0</b>
Basic iron and steel products	3,52	112,9	110,8	113,6	114,8	114,1	-0,6
Non-ferrous metal products	2,60	104,8	98,5	107,8	104,2	102,8	-1,3
Structural metal products	1,92	86,5	83,4	90,6	91,3	97,3	6,6
Other fabricated metal products	3,84	103,1	105,0	107,6	104,6	106,0	1,3
General purpose machinery	2,57	99,7	94,9	97,8	100,2	98,6	-1,6
Special purpose machinery	3,50	96,3	95,6	97,0	97,7	101,0	3,4
Household appliances	0,79	93,8	89,9	94,5	88,8	89,8	1,1
<b>Electrical machinery</b>	<b>1,63</b>	<b>88,6</b>	<b>78,6</b>	<b>85,2</b>	<b>82,0</b>	<b>81,4</b>	<b>-0,7</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,59</b>	<b>95,6</b>	<b>97,2</b>	<b>97,0</b>	<b>92,2</b>	<b>95,5</b>	<b>3,6</b>
Radio, television and communication apparatus	0,92	103,3	103,3	104,0	96,0	98,4	2,5
Professional equipment	0,67	85,2	88,9	87,6	87,0	91,6	5,3
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,20</b>	<b>108,0</b>	<b>91,9</b>	<b>107,2</b>	<b>103,4</b>	<b>105,9</b>	<b>2,4</b>
Motor vehicles	2,60	99,6	84,3	99,8	95,5	101,7	6,5
Bodies for motor vehicles, trailers and semi-trailers	0,48	119,5	102,3	113,7	111,1	112,0	0,8
Parts and accessories	2,89	117,5	101,7	116,4	113,9	112,9	-0,9
Other transport equipment	1,23	99,1	80,8	98,4	92,5	96,3	4,1
<b>Furniture and other manufacturing</b>	<b>3,22</b>	<b>102,0</b>	<b>91,6</b>	<b>97,2</b>	<b>96,7</b>	<b>99,8</b>	<b>3,2</b>
Furniture	1,08	97,3	93,7	99,4	96,0	92,4	-3,8
Other manufacturing groups	2,14	104,4	90,6	96,1	97,0	103,6	6,8
<b>Total</b>	<b>100</b>	<b>99,6</b>	<b>99,2</b>	<b>100,5</b>	<b>100,7</b>	<b>102,3</b>	<b>1,6</b>

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

Month	2012 *	2013 *	2014 *	2015 *	2016 *	2017 *	2018 *
Jan	111 924	121 436	135 677	135 105	139 194	149 598	156 736
Feb	131 506	137 860	152 891	150 297	162 804	165 159	176 201
Mar	139 729	144 166	158 596	169 510	171 979	185 331	187 729
Apr	122 963	139 563	150 136	149 096	162 622	160 348	167 504
May	136 472	147 760	154 928	160 228	175 473	182 017	194 220
Jun	137 003	145 708	163 114	165 325	179 564	185 638	194 979
Jul	133 816	153 100	152 581	165 809	173 159	177 157	197 120
Aug	140 977	150 611	163 460	163 742	179 525	188 712	
Sep	138 136	146 841	170 204	174 697	186 940	191 032	
Oct	151 341	163 656	183 528	181 093	186 342	199 764	
Nov	160 507	169 622	178 453	181 957	198 464	216 510	
Dec	129 139	146 427	154 776	158 052	165 556	175 770	
<b>Total</b>	<b>1 633 513</b>	<b>1 766 750</b>	<b>1 918 344</b>	<b>1 954 911</b>	<b>2 081 622</b>	<b>2 177 036</b>	

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

\* Revised, see note on page 6.

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

Month	2013	2014	2015	2016	2017	2018	2018 year-to-date
Jan	8,5	11,7	-0,4	3,0	7,5	4,8	4,8
Feb	4,8	10,9	-1,7	8,3	1,4	6,7	5,8
Mar	3,2	10,0	6,9	1,5	7,8	1,3	4,1
Apr	13,5	7,6	-0,7	9,1	-1,4	4,5	4,2
May	8,3	4,9	3,4	9,5	3,7	6,7	4,7
Jun	6,4	11,9	1,4	8,6	3,4	5,0	4,8
Jul	14,4	-0,3	8,7	4,4	2,3	11,3	5,7
Aug	6,8	8,5	0,2	9,6	5,1		
Sep	6,3	15,9	2,6	7,0	2,2		
Oct	8,1	12,1	-1,3	2,9	7,2		
Nov	5,7	5,2	2,0	9,1	9,1		
Dec	13,4	5,7	2,1	4,7	6,2		
<b>Total</b>	<b>8,2</b>	<b>8,6</b>	<b>1,9</b>	<b>6,5</b>	<b>4,6</b>		

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

Month	R million				Month-on-month % change			
	2015	2016	2017	2018	2015	2016	2017	2018
Jan	159 595	167 108	177 563	184 672	-1,9	1,5	1,7	-1,6
Feb	157 805	170 508	174 658	186 296	-1,1	2,0	-1,6	0,9
Mar	165 093	169 788	177 055	187 102	4,6	-0,4	1,4	0,4
Apr	161 112	172 787	179 425	180 397	-2,4	1,8	1,3	-3,6
May	161 757	175 899	180 211	191 958	0,4	1,8	0,4	6,4
Jun	161 427	175 777	180 226	191 545	-0,2	-0,1	0,0	-0,2
Jul	163 843	174 665	180 025	197 137	1,5	-0,6	-0,1	2,9
Aug	162 758	173 538	182 158		-0,7	-0,6	1,2	
Sep	165 434	175 567	181 778		1,6	1,2	-0,2	
Oct	165 041	172 987	183 379		-0,2	-1,5	0,9	
Nov	162 923	175 365	192 308		-1,3	1,4	4,9	
Dec	164 675	174 525	187 603		1,1	-0,5	-2,4	

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

Manufacturing division and major group	* Feb-18	* Mar-18	* Apr-18	<sup>1</sup> May-18	<sup>1</sup> Jun-18	<sup>1</sup> Jul-18
<b>Food and beverages</b>	<b>38 930</b>	<b>43 272</b>	<b>41 360</b>	<b>42 431</b>	<b>42 645</b>	<b>42 021</b>
Meat, fish, fruit, etc.	10 964	11 961	10 805	12 220	12 322	12 006
Dairy products	3 519	3 916	3 538	3 737	3 671	3 624
Grain mill products	5 287	6 157	5 580	6 104	6 066	6 236
Other food products	8 192	8 568	10 935	9 150	9 553	9 501
Beverages	10 968	12 671	10 502	11 220	11 033	10 655
<b>Textiles, clothing, leather and footwear</b>	<b>4 397</b>	<b>4 669</b>	<b>4 545</b>	<b>4 738</b>	<b>4 569</b>	<b>5 090</b>
Textiles	591	595	588	617	625	620
Other textile products	1 300	1 344	1 299	1 450	1 370	1 411
Knitted, crocheted articles	216	241	240	245	229	231
Wearing apparel	1 357	1 514	1 439	1 446	1 359	1 867
Leather and leather products	550	574	606	618	608	514
Footwear	383	401	373	361	379	447
<b>Wood and wood products, paper, publishing and printing</b>	<b>13 279</b>	<b>13 263</b>	<b>11 950</b>	<b>13 697</b>	<b>14 542</b>	<b>14 259</b>
Sawmilling and planing of wood	957	1 015	869	1 114	995	1 038
Products of wood	1 948	2 245	1 891	2 102	2 430	2 076
Paper and paper products	6 509	6 007	5 779	6 561	6 998	6 602
Publishing	1 480	1 397	1 327	1 429	1 577	1 800
Printing, recorded media	2 386	2 600	2 083	2 491	2 542	2 742
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>35 012</b>	<b>37 723</b>	<b>34 528</b>	<b>41 473</b>	<b>40 134</b>	<b>42 298</b>
Coke, petroleum products and nuclear fuel	10 518	11 336	11 792	13 885	13 155	15 292
Basic chemicals	7 382	8 329	6 577	9 066	8 670	8 425
Other chemical products	10 492	11 366	10 173	11 675	11 401	11 339
Rubber products	1 327	1 459	1 217	1 458	1 363	1 396
Plastic products	5 292	5 233	4 768	5 389	5 544	5 847
<b>Glass and non-metallic mineral products</b>	<b>5 229</b>	<b>5 530</b>	<b>5 067</b>	<b>5 956</b>	<b>5 725</b>	<b>6 025</b>
Glass and glass products	799	814	813	960	907	882
Non-metallic mineral products	4 429	4 717	4 254	4 996	4 818	5 144
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>40 897</b>	<b>42 449</b>	<b>37 350</b>	<b>43 661</b>	<b>44 392</b>	<b>45 248</b>
Basic iron and steel products	11 550	11 617	10 043	12 238	12 321	12 068
Non-ferrous metal products	10 571	10 346	9 941	11 442	11 843	12 123
Structural metal products	2 886	2 834	2 347	3 124	3 059	3 280
Other fabricated metal products	6 211	6 528	6 042	6 964	6 551	7 024
General purpose machinery	3 467	3 743	3 138	3 629	3 877	3 655
Special purpose machinery	5 060	6 122	4 755	5 036	5 539	5 960
Household appliances	1 151	1 259	1 086	1 229	1 202	1 136
<b>Electrical machinery</b>	<b>4 547</b>	<b>5 010</b>	<b>3 947</b>	<b>4 624</b>	<b>4 751</b>	<b>4 528</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 039</b>	<b>2 113</b>	<b>1 850</b>	<b>2 085</b>	<b>1 950</b>	<b>2 101</b>
Radio, television and communication apparatus	1 107	1 171	989	1 160	1 083	1 188
Professional equipment	932	941	861	925	867	913
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>24 624</b>	<b>26 883</b>	<b>20 391</b>	<b>27 985</b>	<b>28 306</b>	<b>27 617</b>
Motor vehicles	13 201	14 022	11 158	15 740	16 473	15 879
Bodies for motor vehicles, trailers and semi-trailers	1 017	1 144	958	1 191	1 125	1 147
Parts and accessories	7 550	7 735	6 245	8 157	7 274	7 754
Other transport equipment	2 857	3 982	2 030	2 897	3 434	2 836
<b>Furniture and other manufacturing</b>	<b>7 248</b>	<b>6 817</b>	<b>6 516</b>	<b>7 570</b>	<b>7 965</b>	<b>7 931</b>
Furniture	1 384	1 287	1 249	1 430	1 392	1 404
Other manufacturing groups	5 864	5 529	5 266	6 140	6 573	6 527
<b>Total</b>	<b>176 201</b>	<b>187 729</b>	<b>167 504</b>	<b>194 220</b>	<b>194 979</b>	<b>197 120</b>

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

\* Revised, see note on page 6.

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

Manufacturing division and major group	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18
<b>Food and beverages</b>	<b>3,3</b>	<b>3,6</b>	<b>5,4</b>	<b>4,9</b>	<b>2,5</b>	<b>6,5</b>
Meat, fish, fruit, etc.	3,2	0,0	-1,1	3,7	3,6	4,4
Dairy products	12,0	6,9	5,7	8,6	11,3	8,2
Grain mill products	-9,5	-9,7	-3,8	-4,8	-2,9	2,3
Other food products	-3,2	9,3	23,5	5,1	1,4	5,6
Beverages	14,0	10,4	1,9	10,9	2,7	11,9
<b>Textiles, clothing, leather and footwear</b>	<b>0,5</b>	<b>-5,9</b>	<b>5,8</b>	<b>0,2</b>	<b>-1,0</b>	<b>7,8</b>
Textiles	-5,1	-12,8	-1,2	-11,1	-2,3	-3,7
Other textile products	6,6	2,3	14,8	11,5	3,2	8,0
Knitted, crocheted articles	1,9	-1,2	10,1	2,5	2,7	4,5
Wearing apparel	-2,3	-10,9	2,5	-7,4	-5,1	12,0
Leather and leather products	-4,8	-4,8	5,6	6,7	-1,3	2,4
Footwear	7,9	-4,8	0,0	2,6	0,3	17,6
<b>Wood and wood products, paper, publishing and printing</b>	<b>2,7</b>	<b>-5,1</b>	<b>3,7</b>	<b>1,2</b>	<b>5,5</b>	<b>8,2</b>
Sawmilling and planing of wood	1,2	-9,5	13,7	2,7	-5,1	7,8
Products of wood	2,0	7,4	8,2	5,5	6,3	8,4
Paper and paper products	7,8	-11,1	5,8	3,1	6,9	9,5
Publishing	-7,8	-9,8	-9,4	-10,7	0,0	6,9
Printing, recorded media	-2,0	5,7	-0,1	-0,2	9,1	6,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>4,1</b>	<b>2,8</b>	<b>3,3</b>	<b>8,4</b>	<b>6,5</b>	<b>13,1</b>
Coke, petroleum products and nuclear fuel	2,5	8,1	6,7	12,9	11,4	29,3
Basic chemicals	2,4	2,7	-5,9	8,6	9,5	5,4
Other chemical products	8,5	0,4	6,1	7,3	2,8	4,3
Rubber products	-7,7	-3,7	3,1	2,4	-7,7	2,8
Plastic products	4,5	-0,3	3,1	1,8	2,9	9,3
<b>Glass and non-metallic mineral products</b>	<b>16,5</b>	<b>-1,5</b>	<b>9,7</b>	<b>4,9</b>	<b>1,3</b>	<b>5,7</b>
Glass and glass products	27,2	15,1	29,7	14,0	11,2	5,6
Non-metallic mineral products	14,7	-3,9	6,6	3,4	-0,4	5,8
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>10,9</b>	<b>0,1</b>	<b>1,5</b>	<b>6,6</b>	<b>7,9</b>	<b>18,1</b>
Basic iron and steel products	14,3	-1,9	-12,8	8,9	12,0	22,0
Non-ferrous metal products	24,1	8,8	11,4	11,7	20,4	32,7
Structural metal products	-5,3	-7,3	-1,0	8,4	-5,9	12,5
Other fabricated metal products	8,2	2,3	12,6	7,2	1,4	12,6
General purpose machinery	3,0	3,9	1,0	-1,7	7,9	7,2
Special purpose machinery	1,9	-9,6	4,9	-4,9	-4,7	6,2
Household appliances	3,5	0,7	8,9	10,7	0,4	2,8
<b>Electrical machinery</b>	<b>-0,2</b>	<b>-0,8</b>	<b>7,0</b>	<b>0,0</b>	<b>-3,7</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>-2,3</b>	<b>-10,5</b>	<b>-16,6</b>	<b>-1,5</b>	<b>-5,3</b>	<b>-1,8</b>
Radio, television and communication apparatus	-2,8	-11,8	-8,3	-1,0	-5,8	-4,5
Professional equipment	-1,6	-9,0	-24,5	-1,9	-4,7	2,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>11,2</b>	<b>2,0</b>	<b>8,3</b>	<b>15,2</b>	<b>4,4</b>	<b>10,5</b>
Motor vehicles	12,8	0,7	14,0	18,8	11,2	12,6
Bodies for motor vehicles, trailers and semi-trailers	4,5	2,2	13,6	5,3	7,0	16,4
Parts and accessories	10,7	3,2	8,5	9,5	-1,5	6,0
Other transport equipment	7,9	4,5	-16,5	17,3	-10,9	9,6
<b>Furniture and other manufacturing</b>	<b>13,7</b>	<b>10,7</b>	<b>14,2</b>	<b>2,6</b>	<b>13,1</b>	<b>17,7</b>
Furniture	3,3	-8,4	1,1	0,1	0,5	-4,4
Other manufacturing groups	16,5	16,4	17,8	3,2	16,2	23,8
<b>Total</b>	<b>6,7</b>	<b>1,3</b>	<b>4,5</b>	<b>6,7</b>	<b>5,0</b>	<b>11,3</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	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18
<b>Food and beverages</b>	<b>0,8</b>	<b>0,8</b>	<b>1,3</b>	<b>1,1</b>	<b>0,6</b>	<b>1,4</b>
Meat, fish, fruit, etc.	0,2	0,0	-0,1	0,2	0,2	0,3
Dairy products	0,2	0,1	0,1	0,2	0,2	0,2
Grain mill products	-0,3	-0,4	-0,1	-0,2	-0,1	0,1
Other food products	-0,2	0,4	1,3	0,2	0,1	0,3
Beverages	0,8	0,6	0,1	0,6	0,2	0,6
<b>Textiles, clothing, leather and footwear</b>	<b>0,0</b>	<b>-0,2</b>	<b>0,2</b>	<b>0,0</b>	<b>0,0</b>	<b>0,2</b>
Textiles	0,0	0,0	0,0	0,0	0,0	0,0
Other textile products	0,0	0,0	0,1	0,1	0,0	0,1
Knitted, crocheted articles	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	0,0	-0,1	0,0	-0,1	0,0	0,1
Leather and leather products	0,0	0,0	0,0	0,0	0,0	0,0
Footwear	0,0	0,0	0,0	0,0	0,0	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>0,2</b>	<b>-0,4</b>	<b>0,3</b>	<b>0,1</b>	<b>0,4</b>	<b>0,6</b>
Sawmilling and planing of wood	0,0	-0,1	0,1	0,0	0,0	0,0
Products of wood	0,0	0,1	0,1	0,1	0,1	0,1
Paper and paper products	0,3	-0,4	0,2	0,1	0,2	0,3
Publishing	-0,1	-0,1	-0,1	-0,1	0,0	0,1
Printing, recorded media	0,0	0,1	0,0	0,0	0,1	0,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>0,8</b>	<b>0,6</b>	<b>0,7</b>	<b>1,8</b>	<b>1,3</b>	<b>2,8</b>
Coke, petroleum products and nuclear fuel	0,2	0,5	0,5	0,9	0,7	2,0
Basic chemicals	0,1	0,1	-0,3	0,4	0,4	0,2
Other chemical products	0,5	0,0	0,4	0,4	0,2	0,3
Rubber products	-0,1	0,0	0,0	0,0	-0,1	0,0
Plastic products	0,1	0,0	0,1	0,1	0,1	0,3
<b>Glass and non-metallic mineral products</b>	<b>0,4</b>	<b>0,0</b>	<b>0,3</b>	<b>0,2</b>	<b>0,0</b>	<b>0,2</b>
Glass and glass products	0,1	0,1	0,1	0,1	0,0	0,0
Non-metallic mineral products	0,3	-0,1	0,2	0,1	0,0	0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>2,4</b>	<b>0,0</b>	<b>0,3</b>	<b>1,5</b>	<b>1,8</b>	<b>3,9</b>
Basic iron and steel products	0,9	-0,1	-0,9	0,5	0,7	1,2
Non-ferrous metal products	1,2	0,5	0,6	0,7	1,1	1,7
Structural metal products	-0,1	-0,1	0,0	0,1	-0,1	0,2
Other fabricated metal products	0,3	0,1	0,4	0,3	0,0	0,4
General purpose machinery	0,1	0,1	0,0	0,0	0,2	0,1
Special purpose machinery	0,1	-0,4	0,1	-0,1	-0,1	0,2
Household appliances	0,0	0,0	0,1	0,1	0,0	0,0
<b>Electrical machinery</b>	<b>0,0</b>	<b>0,0</b>	<b>0,2</b>	<b>0,0</b>	<b>-0,1</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>0,0</b>	<b>-0,1</b>	<b>-0,2</b>	<b>0,0</b>	<b>-0,1</b>	<b>0,0</b>
Radio, television and communication apparatus	0,0	-0,1	-0,1	0,0	0,0	0,0
Professional equipment	0,0	-0,1	-0,2	0,0	0,0	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>1,5</b>	<b>0,3</b>	<b>1,0</b>	<b>2,0</b>	<b>0,6</b>	<b>1,5</b>
Motor vehicles	0,9	0,1	0,9	1,4	0,9	1,0
Bodies for motor vehicles, trailers and semi-trailers	0,0	0,0	0,1	0,0	0,0	0,1
Parts and accessories	0,4	0,1	0,3	0,4	-0,1	0,2
Other transport equipment	0,1	0,1	-0,3	0,2	-0,2	0,1
<b>Furniture and other manufacturing</b>	<b>0,5</b>	<b>0,4</b>	<b>0,5</b>	<b>0,1</b>	<b>0,5</b>	<b>0,7</b>
Furniture	0,0	-0,1	0,0	0,0	0,0	0,0
Other manufacturing groups	0,5	0,4	0,5	0,1	0,5	0,7
<b>Total</b>	<b>6,7</b>	<b>1,3</b>	<b>4,5</b>	<b>6,7</b>	<b>5,0</b>	<b>11,3</b>

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

Manufacturing division and major group	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Month-on-month % change
<b>Food and beverages</b>	<b>43 637</b>	<b>44 260</b>	<b>43 706</b>	<b>44 136</b>	<b>44 030</b>	<b>-0,2</b>
Meat, fish, fruit, etc.	11 763	11 525	12 195	12 361	12 115	-2,0
Dairy products	3 762	3 726	3 858	3 898	3 805	-2,4
Grain mill products	6 112	5 851	5 953	6 008	6 076	1,1
Other food products	9 796	10 691	9 403	9 511	9 510	0,0
Beverages	12 203	12 468	12 298	12 357	12 525	1,4
<b>Textiles, clothing, leather and footwear</b>	<b>4 629</b>	<b>4 621</b>	<b>4 708</b>	<b>4 635</b>	<b>5 022</b>	<b>8,3</b>
Textiles	586	591	576	621	619	-0,3
Other textile products	1 306	1 328	1 410	1 326	1 377	3,8
Knitted, crocheted articles	219	219	218	225	227	0,9
Wearing apparel	1 509	1 484	1 475	1 466	1 769	20,7
Leather and leather products	591	594	609	587	589	0,3
Footwear	417	405	420	409	440	7,6
<b>Wood and wood products, paper, publishing and printing</b>	<b>13 262</b>	<b>13 654</b>	<b>14 074</b>	<b>14 294</b>	<b>14 511</b>	<b>1,5</b>
Sawmilling and planing of wood	1 020	961	1 045	984	1 007	2,3
Products of wood	2 152	2 061	2 140	2 266	2 141	-5,5
Paper and paper products	5 934	6 495	6 724	6 702	6 889	2,8
Publishing	1 546	1 549	1 579	1 666	1 801	8,1
Printing, recorded media	2 610	2 588	2 585	2 677	2 673	-0,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>39 630</b>	<b>37 277</b>	<b>40 453</b>	<b>40 248</b>	<b>41 894</b>	<b>4,1</b>
Coke, petroleum products and nuclear fuel	12 388	12 519	13 021	13 013	14 562	11,9
Basic chemicals	8 842	7 073	8 964	8 847	8 647	-2,3
Other chemical products	11 520	11 141	11 519	11 402	11 563	1,4
Rubber products	1 402	1 279	1 372	1 304	1 359	4,2
Plastic products	5 478	5 266	5 577	5 682	5 762	1,4
<b>Glass and non-metallic mineral products</b>	<b>5 713</b>	<b>5 417</b>	<b>5 613</b>	<b>5 536</b>	<b>5 695</b>	<b>2,9</b>
Glass and glass products	961	972	971	941	905	-3,8
Non-metallic mineral products	4 751	4 445	4 641	4 595	4 790	4,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>40 987</b>	<b>38 995</b>	<b>42 014</b>	<b>42 433</b>	<b>45 151</b>	<b>6,4</b>
Basic iron and steel products	11 258	9 928	11 457	11 612	12 559	8,2
Non-ferrous metal products	10 478	10 323	11 063	11 507	12 443	8,1
Structural metal products	2 799	2 677	2 967	2 903	3 108	7,1
Other fabricated metal products	6 481	6 402	6 571	6 393	6 665	4,3
General purpose machinery	3 675	3 400	3 581	3 563	3 651	2,5
Special purpose machinery	5 125	5 107	5 177	5 303	5 550	4,7
Household appliances	1 171	1 157	1 199	1 152	1 174	1,9
<b>Electrical machinery</b>	<b>4 425</b>	<b>4 452</b>	<b>4 588</b>	<b>4 447</b>	<b>4 439</b>	<b>-0,2</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 061</b>	<b>2 139</b>	<b>2 184</b>	<b>2 052</b>	<b>2 111</b>	<b>2,9</b>
Radio, television and communication apparatus	1 197	1 221	1 279	1 192	1 190	-0,2
Professional equipment	865	918	905	860	921	7,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>25 506</b>	<b>22 540</b>	<b>27 211</b>	<b>26 075</b>	<b>26 515</b>	<b>1,7</b>
Motor vehicles	13 750	12 744	15 445	15 133	15 038	-0,6
Bodies for motor vehicles, trailers and semi-trailers	1 145	951	1 094	1 100	1 127	2,5
Parts and accessories	7 391	6 425	7 450	6 970	7 224	3,6
Other transport equipment	3 220	2 419	3 222	2 873	3 126	8,8
<b>Furniture and other manufacturing</b>	<b>7 251</b>	<b>7 041</b>	<b>7 408</b>	<b>7 690</b>	<b>7 771</b>	<b>1,1</b>
Furniture	1 448	1 386	1 427	1 398	1 365	-2,4
Other manufacturing groups	5 803	5 655	5 981	6 292	6 406	1,8
<b>Total</b>	<b>187 102</b>	<b>180 397</b>	<b>191 958</b>	<b>191 545</b>	<b>197 137</b>	<b>2,9</b>

## Survey information

- Introduction**
- 1 Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry, covering manufacturing enterprises. This statistical release contains the results of a sample drawn from the business sampling frame (BSF), with enhanced coverage of South African businesses (see 4). The release contains monthly indices of the volume of manufacturing production and monthly value of sales of manufactured products by division and major group.
  - 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.
  - 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.
  - 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).
- Purpose of the survey**
- 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.
- Special Data Dissemination Standard of the IMF**
- 6 The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.
- Scope of the survey**
- 7 This survey covers manufacturing enterprises, i.e. those conducting activities in -
    - the manufacturing, processing, making or packing of products;
    - the slaughtering of animals, including poultry; and
    - installation, assembly, completion, repair and related work.
- Classification**
- 8 The 1993 edition of the *Standard Industrial Classification of all Economic Activities* (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 *International Standard Industrial Classification of all Economic Activities* (ISIC) with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two digit) and major group (three digit) level.
- Collection rate**
- 9 The preliminary collection rate for the survey on manufacturing production and sales for July 2018 was 86,9%. The collection rate for June 2018 for the new sample was 88,0%.
- Statistical unit**
- 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.
- Revised figures**
- 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.

- 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 3 083 enterprises from a population of 50 191 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 2018 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	1 842 288	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 2018	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 are calculated and implemented annually.

**Table G – Weights by division and major group**

Manufacturing division and major group	Weights used for manufacturing indices by period		
	2014 (based on value added for 2013 – 2014)	2015 (based on value added for 2013 – 2015)	2016 – 2018 (based on value added for 2014 – 2016)
<b>Food and beverages</b>	<b>24,72</b>	<b>25,15</b>	<b>25,78</b>
Meat, fish, fruit, etc.	6,26	6,39	6,59
Dairy products	1,84	1,89	2,00
Grain mill products	2,75	2,86	3,12
Other food products	7,61	7,62	7,74
Beverages	6,26	6,39	6,33
<b>Textiles, clothing, leather and footwear</b>	<b>3,33</b>	<b>3,28</b>	<b>3,21</b>
Textiles	0,86	0,83	0,80
Other textile products	0,40	0,41	0,41
Knitted, crocheted articles	0,09	0,09	0,09
Wearing apparel	1,12	1,10	1,08
Leather and leather products	0,50	0,49	0,48
Footwear	0,36	0,36	0,35
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,73</b>	<b>11,62</b>	<b>11,28</b>
Sawmilling and planing of wood	1,70	1,71	1,69
Products of wood	2,29	2,37	2,42
Paper and paper products	4,44	4,33	4,09
Publishing	1,52	1,49	1,45
Printing, recorded media	1,78	1,72	1,63
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,04</b>	<b>24,01</b>	<b>23,82</b>
Coke, petroleum products and nuclear fuel	9,34	9,29	9,18
Basic chemicals	4,26	4,36	4,41
Other chemical products	6,11	6,16	6,15
Rubber products	1,37	1,34	1,30
Plastic products	2,96	2,86	2,78
<b>Glass and non-metallic mineral products</b>	<b>4,14</b>	<b>3,90</b>	<b>3,53</b>
Glass and glass products	0,78	0,74	0,69
Non-metallic mineral products	3,36	3,16	2,84
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,69</b>	<b>18,72</b>	<b>18,74</b>
Basic iron and steel products	3,27	3,44	3,52
Non-ferrous metal products (including precious metals)	2,93	2,73	2,60
Structural metal products	1,83	1,86	1,92
Other fabricated metal products	3,86	3,86	3,84
General purpose machinery	2,46	2,51	2,57
Special purpose machinery	3,52	3,51	3,50
Household appliances	0,82	0,81	0,79
<b>Electrical machinery</b>	<b>1,65</b>	<b>1,65</b>	<b>1,63</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,63</b>	<b>1,61</b>	<b>1,59</b>
Radio, television and communication apparatus	0,96	0,93	0,92
Professional equipment	0,67	0,68	0,67
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>6,91</b>	<b>6,86</b>	<b>7,20</b>
Motor vehicles	2,44	2,43	2,60
Bodies for motor vehicles, trailers and semi-trailers	0,49	0,46	0,48
Parts and accessories	2,78	2,76	2,89
Other transport equipment	1,20	1,21	1,23
<b>Furniture and other manufacturing</b>	<b>3,16</b>	<b>3,20</b>	<b>3,22</b>
Furniture	1,07	1,09	1,08
Other manufacturing groups	2,09	2,11	2,14
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>

- Seasonal adjustment** 10 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: [Click to Download Seasonal adjustment Manufacturing June 2017](#)
- Trend cycle** 11 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.
- Reliability of estimates** 12 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.
- 13 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.
- Month-on-month percentage change** 14 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.
- Year-on-year (annual) percentage change** 15 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.
- Index contribution (percentage points)** 16 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.
- Sales contribution (percentage points)** 17 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

## Technical enquiries

**Nicolai Claassen** Telephone number: (012) 310 8007  
Email: nicolaic@statssa.gov.za

**Gerda Bruwer** Telephone number: (012) 310 8249  
Email: gerdab@statssa.gov.za

