

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

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

**August 2018**

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

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

**FORTHCOMING ISSUE:**  
September 2018

**EXPECTED RELEASE DATE:**  
8 November 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 August 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 August 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>Tables</b> .....	<b>6</b>
Table 1 – Index of the volume of manufacturing production (Base: 2015=100).....	6
Table 2 – Year-on-year percentage change in the volume of manufacturing production .....	6
Table 3 – Seasonally adjusted volume of manufacturing production .....	6
Table 4 – Index of the volume of manufacturing production by division and major group (Base: 2015=100) .....	7
Table 5 – Year-on-year percentage change in the volume of manufacturing production by division and major group (Base: 2015=100) .....	8
Table 6 – Contribution of each division and major group to the year-on-year percentage change in the volume of manufacturing production (percentage points) .....	9
Table 7 – Seasonally adjusted index of the volume of manufacturing production by division and major group (Base: 2015=100) .....	10
Table 8 – Manufacturing sales at current prices (R million) .....	11
Table 9 – Year-on-year percentage change in manufacturing sales at current prices.....	11
Table 10 – Seasonally adjusted manufacturing sales at current prices .....	11
Table 11 – Manufacturing sales at current prices by division and major group (R million) .....	12
Table 12 – Year-on-year percentage change in manufacturing sales at current prices by division and major group.....	13
Table 13 – Contribution of each division and major group to the year-on-year percentage change in manufacturing sales at current prices (percentage points) .....	14
Table 14 – Seasonally adjusted manufacturing sales at current prices by division and major group (R million) .....	15
<b>Survey information</b> .....	<b>16</b>
<b>Technical notes</b> .....	<b>17</b>
Table E – Weights by division and major group .....	19
<b>Glossary</b> .....	<b>21</b>
<b>Technical enquiries</b> .....	<b>21</b>
<b>General information</b> .....	<b>22</b>

## Production: results for August 2018

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

	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18
Year-on-year % change, unadjusted	-1,8	1,2	2,1	0,5	2,8	1,3
Month-on-month % change, seasonally adjusted	0,6	-0,4	1,4	0,1	1,4	0,1
3-month % change, seasonally adjusted <sup>1</sup>	-2,1	-2,8	-1,4	0,2	1,8	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 1,3% in August 2018 compared with August 2017. The largest positive contributions were made by the following divisions:

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

Seasonally adjusted manufacturing production increased by 0,1% in August 2018 compared with July 2018. This followed month-on-month changes of 1,4% in July 2018 and 0,1% in June 2018 – see Table A.

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

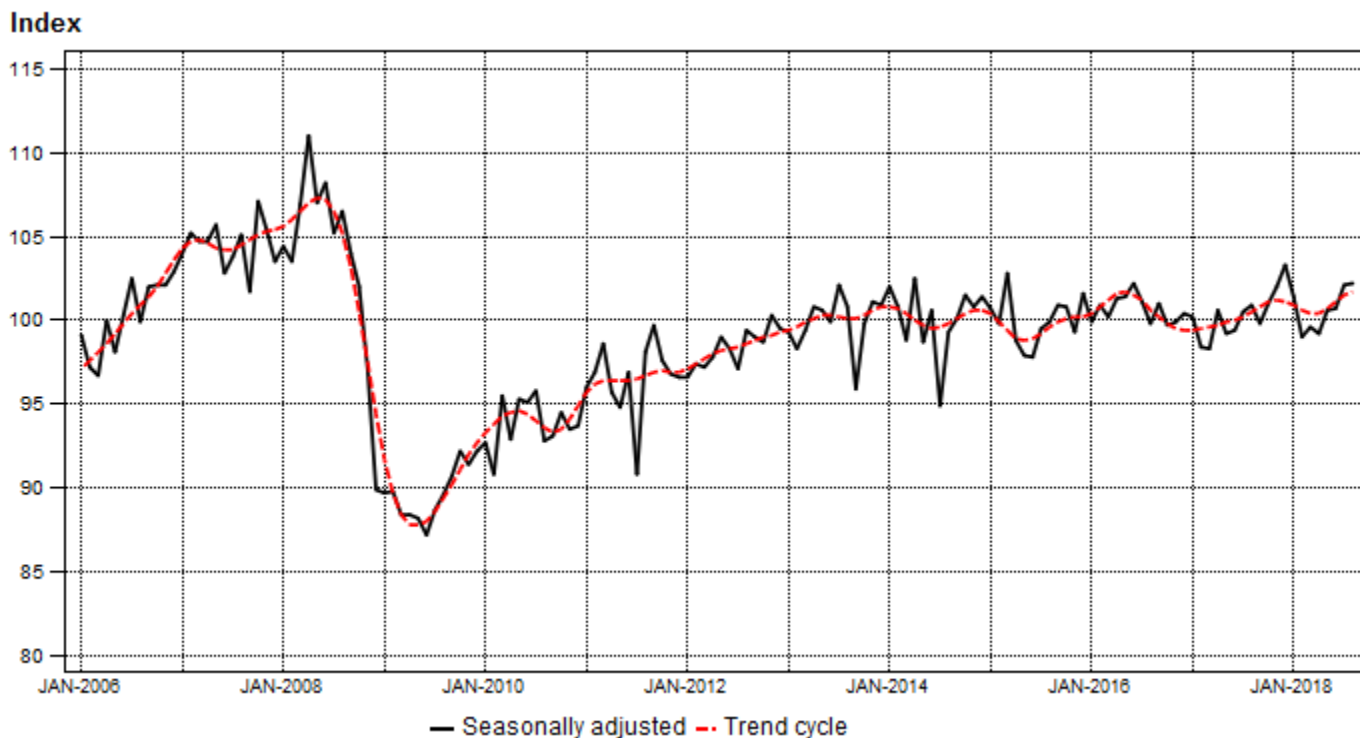
The largest positive contributions to the 1,9% increase in the three months ended August 2018 were made by:

- petroleum, chemicals, rubber and plastic products (2,6% and contributing 0,6 of a percentage point);
- wood and wood products, paper, publishing and printing (4,4% and contributing 0,5 of a percentage point);
- basic iron and steel, non-ferrous metal products, metal products and machinery (2,4% and contributing 0,5 of a percentage point); and
- food and beverages (0,6% and contributing 0,2 of a percentage point) – see Table B.

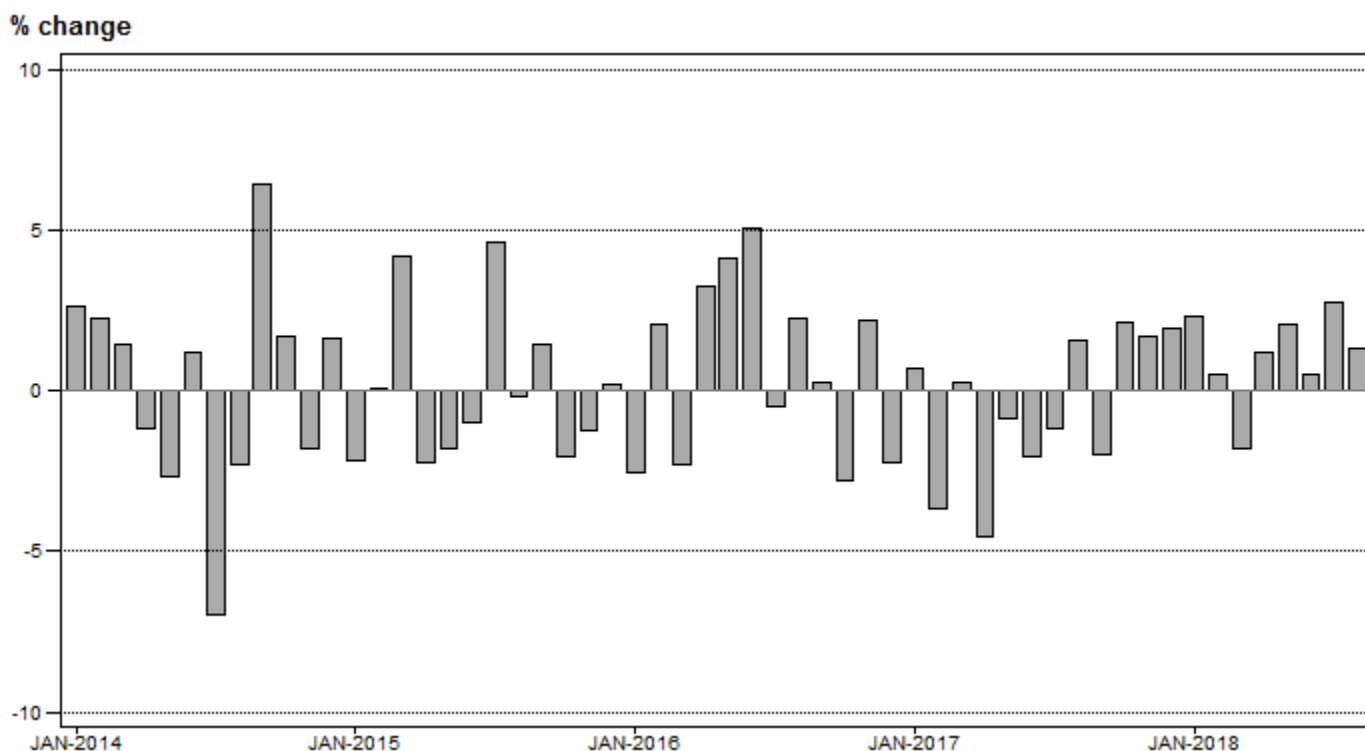
**Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2015=100)**

Manufacturing division and major group	Weights	Mar – May 2018	Jun – Aug 2018	% change between Mar – May 2018 and Jun – Aug 2018	Contribution (% points) to the total % change
<b>Food and beverages</b>	<b>25,78</b>	<b>105,1</b>	<b>105,7</b>	<b>0,6</b>	<b>0,2</b>
Meat, fish, fruit, etc.	6,59	100,0	103,5	3,5	0,2
Dairy products	2,00	103,7	104,5	0,8	0,0
Grain mill products	3,12	99,3	98,2	-1,1	0,0
Other food products	7,74	113,5	113,2	-0,3	0,0
Beverages	6,33	103,2	102,8	-0,4	0,0
<b>Textiles, clothing, leather and footwear</b>	<b>3,21</b>	<b>90,8</b>	<b>92,7</b>	<b>2,1</b>	<b>0,1</b>
Textiles	0,80	101,3	105,4	4,0	0,0
Other textile products	0,41	102,8	101,0	-1,8	0,0
Knitted, crocheted articles	0,09	95,3	98,4	3,3	0,0
Wearing apparel	1,08	84,1	85,2	1,3	0,0
Leather and leather products	0,48	80,8	81,8	1,2	0,0
Footwear	0,35	86,1	91,1	5,8	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,28</b>	<b>95,8</b>	<b>100,0</b>	<b>4,4</b>	<b>0,5</b>
Sawmilling and planing of wood	1,69	104,7	105,5	0,8	0,0
Products of wood	2,42	104,3	105,1	0,8	0,0
Paper and paper products	4,09	93,5	101,1	8,1	0,3
Publishing	1,45	82,2	87,6	6,6	0,1
Printing, recorded media	1,63	93,2	95,1	2,0	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,82</b>	<b>97,5</b>	<b>100,0</b>	<b>2,6</b>	<b>0,6</b>
Coke, petroleum products and nuclear fuel	9,18	92,6	101,0	9,1	0,8
Basic chemicals	4,41	104,5	98,7	-5,6	-0,3
Other chemical products	6,15	97,5	96,6	-0,9	-0,1
Rubber products	1,30	99,3	98,4	-0,9	0,0
Plastic products	2,78	102,2	106,5	4,2	0,1
<b>Glass and non-metallic mineral products</b>	<b>3,53</b>	<b>97,7</b>	<b>98,5</b>	<b>0,8</b>	<b>0,0</b>
Glass and glass products	0,69	107,8	106,5	-1,2	0,0
Non-metallic mineral products	2,84	95,3	96,7	1,5	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,74</b>	<b>101,4</b>	<b>103,8</b>	<b>2,4</b>	<b>0,5</b>
Basic iron and steel products	3,52	112,6	115,6	2,7	0,1
Non-ferrous metal products	2,60	103,8	106,3	2,4	0,1
Structural metal products	1,92	86,5	91,2	5,4	0,1
Other fabricated metal products	3,84	105,3	105,6	0,3	0,0
General purpose machinery	2,57	97,4	99,0	1,6	0,0
Special purpose machinery	3,50	96,9	101,6	4,9	0,2
Household appliances	0,79	92,7	90,1	-2,8	0,0
<b>Electrical machinery</b>	<b>1,63</b>	<b>84,1</b>	<b>82,1</b>	<b>-2,4</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,59</b>	<b>96,5</b>	<b>93,6</b>	<b>-3,0</b>	<b>0,0</b>
Radio, television and communication apparatus	0,92	103,3	96,7	-6,4	-0,1
Professional equipment	0,67	87,2	89,4	2,5	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,20</b>	<b>102,1</b>	<b>103,7</b>	<b>1,6</b>	<b>0,1</b>
Motor vehicles	2,60	94,4	99,0	4,9	0,1
Bodies for motor vehicles, trailers and semi-trailers	0,48	111,7	107,2	-4,0	0,0
Parts and accessories	2,89	111,6	112,3	0,6	0,0
Other transport equipment	1,23	92,5	92,2	-0,3	0,0
<b>Furniture and other manufacturing</b>	<b>3,22</b>	<b>97,0</b>	<b>98,6</b>	<b>1,6</b>	<b>0,1</b>
Furniture	1,08	97,0	95,4	-1,6	0,0
Other manufacturing groups	2,14	97,0	100,3	3,4	0,1
<b>Total</b>	<b>100</b>	<b>99,8</b>	<b>101,7</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 August 2018****Table C – Key growth rates in manufacturing sales at current prices**

	<b>Mar-18</b>	<b>Apr-18</b>	<b>May-18</b>	<b>Jun-18</b>	<b>Jul-18</b>	<b>Aug-18</b>
Year-on-year % change, unadjusted	1,3	4,5	6,8	4,8	10,9	8,4
Month-on-month % change, seasonally adjusted	0,4	-3,6	6,5	-0,4	2,8	-0,2
3-month % change, seasonally adjusted <sup>1</sup>	-1,0	-1,9	0,2	1,0	4,8	4,4

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

Seasonally adjusted manufacturing sales decreased by 0,2% in August 2018 compared with July 2018. This followed month-on-month changes of 2,8% in July 2018 and -0,4% in June 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>Mar – May 2018 (R million)</b>	<b>Jun – Aug 2018 (R million)</b>	<b>% change between Mar – May 2018 and Jun – Aug 2018</b>	<b>Contribution (% points) to the total % change</b>
Food and beverages	131 652	133 602	1,5	0,4
Textiles, clothing, leather and footwear	13 988	14 088	0,7	0,0
Wood and wood products, paper, publishing and printing	40 989	43 301	5,6	0,4
Petroleum, chemical products, rubber and plastic products	117 209	122 621	4,6	1,0
Glass and non-metallic mineral products	16 753	16 625	-0,8	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	122 139	132 179	8,2	1,8
Electrical machinery	13 439	13 370	-0,5	0,0
Radio, television and communication apparatus and professional equipment	6 366	6 199	-2,6	0,0
Motor vehicles, parts and accessories and other transport equipment	75 217	78 778	4,7	0,6
Furniture and other manufacturing	21 745	23 422	7,7	0,3
<b>Total</b>	<b>559 499</b>	<b>584 185</b>	<b>4,4</b>	<b>4,4</b>

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

## 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	102,2
Jul	99,6	104,8	97,5	102,0	101,5	100,3	103,1
Aug	103,2	103,8	101,4	101,2	103,5	105,1	106,5
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	0,5	0,8
Jul	5,2	-7,0	4,6	-0,5	-1,2	2,8	1,0
Aug	0,6	-2,3	-0,2	2,3	1,5	1,3	1,1
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	-1,7	-0,2	-1,8
Feb	99,8	100,9	98,4	99,0	-0,9	1,0	-1,8	-2,4
Mar	102,8	100,2	98,3	99,6	3,0	-0,7	-0,1	0,6
Apr	98,8	101,3	100,6	99,2	-3,9	1,1	2,3	-0,4
May	97,9	101,4	99,2	100,6	-0,9	0,1	-1,4	1,4
Jun	97,8	102,2	99,4	100,7	-0,1	0,8	0,2	0,1
Jul	99,5	101,1	100,5	102,1	1,7	-1,1	1,1	1,4
Aug	99,9	99,8	100,9	102,2	0,4	-1,3	0,4	0,1
Sep	100,9	101,0	99,8		1,0	1,2	-1,1	
Oct	100,8	99,7	101,0		-0,1	-1,3	1,2	
Nov	99,3	99,9	102,0		-1,5	0,2	1,0	
Dec	101,6	100,4	103,3		2,3	0,5	1,3	

**Table 4 – 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	<sup>1</sup> Jun-18	<sup>1</sup> Jul-18	<sup>1</sup> Aug-18
<b>Food and beverages</b>	<b>25,78</b>	<b>101,7</b>	<b>97,4</b>	<b>105,4</b>	<b>106,1</b>	<b>104,0</b>	<b>110,5</b>
Meat, fish, fruit, etc.	6,59	101,0	93,4	104,5	104,2	102,0	106,5
Dairy products	2,00	108,0	97,5	95,8	94,1	97,0	107,8
Grain mill products	3,12	101,9	94,6	99,6	100,5	99,8	100,6
Other food products	7,74	96,7	108,9	119,8	124,6	122,8	127,4
Beverages	6,33	106,3	88,8	94,7	91,9	87,3	99,9
<b>Textiles, clothing, leather and footwear</b>	<b>3,21</b>	<b>91,8</b>	<b>89,5</b>	<b>92,0</b>	<b>91,7</b>	<b>95,1</b>	<b>96,0</b>
Textiles	0,80	105,2	102,5	109,7	109,2	110,5	102,8
Other textile products	0,41	103,6	98,3	108,9	103,3	102,2	108,0
Knitted, crocheted articles	0,09	102,7	101,2	102,4	97,9	100,4	98,0
Wearing apparel	1,08	83,7	80,7	79,0	78,4	95,5	90,8
Leather and leather products	0,48	77,7	85,0	83,6	83,8	68,7	83,6
Footwear	0,35	89,1	79,5	80,4	88,2	85,2	98,6
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,28</b>	<b>96,2</b>	<b>84,8</b>	<b>96,1</b>	<b>99,9</b>	<b>101,6</b>	<b>103,7</b>
Sawmilling and planing of wood	1,69	115,4	93,8	116,0	104,2	111,8	110,3
Products of wood	2,42	109,0	96,6	102,3	111,3	107,5	108,2
Paper and paper products	4,09	90,2	83,3	94,5	101,0	98,0	105,3
Publishing	1,45	75,1	70,3	75,8	83,2	91,8	92,2
Printing, recorded media	1,63	91,0	74,5	88,2	90,8	99,8	96,7
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,82</b>	<b>92,8</b>	<b>94,3</b>	<b>99,4</b>	<b>97,6</b>	<b>100,5</b>	<b>104,6</b>
Coke, petroleum products and nuclear fuel	9,18	81,9	106,1	89,7	95,8	102,1	105,0
Basic chemicals	4,41	100,7	87,5	113,7	99,3	96,3	100,9
Other chemical products	6,15	98,4	85,0	100,2	96,4	96,5	103,6
Rubber products	1,30	104,2	89,9	111,5	98,0	108,0	101,8
Plastic products	2,78	98,2	89,2	101,3	102,9	107,2	112,9
<b>Glass and non-metallic mineral products</b>	<b>3,53</b>	<b>96,1</b>	<b>92,6</b>	<b>102,4</b>	<b>105,4</b>	<b>105,7</b>	<b>105,9</b>
Glass and glass products	0,69	94,7	96,9	106,0	107,5	105,9	116,1
Non-metallic mineral products	2,84	96,5	91,5	101,5	104,9	105,6	103,4
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,74</b>	<b>108,1</b>	<b>94,5</b>	<b>107,4</b>	<b>105,7</b>	<b>105,4</b>	<b>108,0</b>
Basic iron and steel products	3,52	120,5	114,9	126,1	116,4	108,0	112,6
Non-ferrous metal products	2,60	109,9	97,3	111,2	105,2	102,7	115,0
Structural metal products	1,92	88,2	73,1	95,0	97,2	100,6	90,7
Other fabricated metal products	3,84	107,4	96,6	113,1	106,6	112,0	114,1
General purpose machinery	2,57	100,0	87,2	100,6	106,0	100,6	101,8
Special purpose machinery	3,50	113,8	88,3	93,5	102,6	107,6	109,0
Household appliances	0,79	99,7	87,5	96,9	89,9	88,4	92,2
<b>Electrical machinery</b>	<b>1,63</b>	<b>100,2</b>	<b>71,7</b>	<b>86,5</b>	<b>89,3</b>	<b>84,2</b>	<b>86,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,59</b>	<b>97,4</b>	<b>85,1</b>	<b>92,2</b>	<b>88,0</b>	<b>95,6</b>	<b>97,3</b>
Radio, television and communication apparatus	0,92	99,2	86,3	94,9	88,0	99,1	106,4
Professional equipment	0,67	94,9	83,5	88,5	88,0	90,7	84,6
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,20</b>	<b>114,7</b>	<b>85,7</b>	<b>114,9</b>	<b>108,8</b>	<b>111,4</b>	<b>112,3</b>
Motor vehicles	2,60	100,9	77,2	113,4	102,2	114,7	115,7
Bodies for motor vehicles, trailers and semi-trailers	0,48	119,4	102,0	122,5	112,1	116,4	112,5
Parts and accessories	2,89	121,8	100,2	125,7	115,0	118,4	120,0
Other transport equipment	1,23	125,2	63,1	89,5	106,9	86,2	87,2
<b>Furniture and other manufacturing</b>	<b>3,22</b>	<b>84,1</b>	<b>79,0</b>	<b>96,7</b>	<b>99,6</b>	<b>105,6</b>	<b>103,0</b>
Furniture	1,08	86,9	84,1	99,9	94,2	95,3	103,3
Other manufacturing groups	2,14	82,7	76,5	95,2	102,3	110,8	102,8
<b>Total</b>	<b>100</b>	<b>99,9</b>	<b>92,2</b>	<b>102,6</b>	<b>102,2</b>	<b>103,1</b>	<b>106,5</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	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18
<b>Food and beverages</b>	<b>5,6</b>	<b>3,0</b>	<b>4,0</b>	<b>4,0</b>	<b>6,0</b>	<b>3,3</b>
Meat, fish, fruit, etc.	-0,3	-0,4	3,2	4,3	7,5	4,9
Dairy products	5,5	4,4	2,4	2,3	4,1	6,0
Grain mill products	2,5	9,7	2,2	3,8	2,8	2,0
Other food products	13,6	9,9	8,6	6,0	9,9	2,9
Beverages	4,9	-5,8	0,2	0,9	0,6	2,0
<b>Textiles, clothing, leather and footwear</b>	<b>-9,9</b>	<b>0,9</b>	<b>-6,0</b>	<b>-0,1</b>	<b>-1,2</b>	<b>-0,5</b>
Textiles	-10,3	5,0	-7,2	0,2	-1,7	-4,9
Other textile products	-0,6	9,0	4,3	0,4	1,6	7,1
Knitted, crocheted articles	0,0	8,8	-0,7	6,8	0,4	2,9
Wearing apparel	-14,2	2,0	-10,9	-1,0	-2,4	-2,5
Leather and leather products	-10,6	-10,1	-5,6	-5,2	0,4	-4,2
Footwear	-9,0	-8,8	-3,8	6,8	-2,7	11,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>-7,2</b>	<b>-4,8</b>	<b>-2,6</b>	<b>-0,9</b>	<b>3,4</b>	<b>1,2</b>
Sawmilling and planing of wood	-4,1	-9,9	1,0	-6,0	-2,5	-4,4
Products of wood	6,4	4,1	5,7	3,0	6,0	0,3
Paper and paper products	-15,5	-5,0	-2,8	0,6	5,8	8,7
Publishing	-15,6	-10,7	-16,3	-7,9	1,4	-7,2
Printing, recorded media	-3,4	-8,1	-7,8	0,7	1,8	-1,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>-6,2</b>	<b>2,8</b>	<b>4,5</b>	<b>1,2</b>	<b>0,8</b>	<b>0,6</b>
Coke, petroleum products and nuclear fuel	-15,3	10,6	7,0	14,7	1,1	0,0
Basic chemicals	9,1	-4,3	7,7	-1,5	-5,3	-2,6
Other chemical products	-6,0	-5,9	-2,6	-11,6	0,3	-0,4
Rubber products	-10,2	3,6	3,0	-9,8	8,1	-2,7
Plastic products	2,9	6,6	9,3	4,8	7,4	11,3
<b>Glass and non-metallic mineral products</b>	<b>-6,9</b>	<b>8,9</b>	<b>0,4</b>	<b>2,1</b>	<b>4,0</b>	<b>1,0</b>
Glass and glass products	1,3	9,5	11,8	7,8	2,3	5,6
Non-metallic mineral products	-8,5	8,8	-2,1	0,8	4,3	-0,3
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>-2,5</b>	<b>0,4</b>	<b>1,3</b>	<b>-0,4</b>	<b>1,2</b>	<b>2,1</b>
Basic iron and steel products	0,0	-0,3	3,2	14,1	0,1	1,9
Non-ferrous metal products	-1,3	-7,0	5,7	-4,9	-10,4	3,3
Structural metal products	-9,3	-6,6	2,9	-10,7	6,9	-2,1
Other fabricated metal products	-0,6	9,0	3,7	-0,2	5,9	3,4
General purpose machinery	0,3	0,5	0,2	5,6	3,9	0,1
Special purpose machinery	-7,9	1,4	-8,9	-9,1	2,1	2,5
Household appliances	5,1	3,3	9,5	3,7	1,4	3,2
<b>Electrical machinery</b>	<b>-2,9</b>	<b>-7,7</b>	<b>-7,5</b>	<b>-11,1</b>	<b>-9,7</b>	<b>-9,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>-12,6</b>	<b>-17,9</b>	<b>-11,4</b>	<b>-10,8</b>	<b>-9,5</b>	<b>-9,7</b>
Radio, television and communication apparatus	-10,6	-9,9	-8,3	-14,0	-11,2	-13,1
Professional equipment	-15,4	-27,0	-15,7	-6,2	-6,7	-3,3
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>4,4</b>	<b>1,3</b>	<b>9,6</b>	<b>-2,9</b>	<b>8,2</b>	<b>1,3</b>
Motor vehicles	-1,0	-1,2	6,5	-8,4	6,0	5,6
Bodies for motor vehicles, trailers and semi-trailers	7,9	10,4	12,0	3,5	10,8	-2,8
Parts and accessories	9,9	5,5	11,1	6,7	11,5	1,4
Other transport equipment	0,8	-11,3	12,2	-14,4	3,2	-7,2
<b>Furniture and other manufacturing</b>	<b>6,9</b>	<b>11,0</b>	<b>-4,4</b>	<b>-2,8</b>	<b>2,3</b>	<b>0,9</b>
Furniture	-5,4	1,2	5,5	4,2	0,0	-2,5
Other manufacturing groups	14,7	17,3	-8,8	-5,7	3,3	2,7
<b>Total</b>	<b>-1,8</b>	<b>1,2</b>	<b>2,1</b>	<b>0,5</b>	<b>2,8</b>	<b>1,3</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	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18
<b>Food and beverages</b>	<b>25,78</b>	<b>1,4</b>	<b>0,8</b>	<b>1,1</b>	<b>1,0</b>	<b>1,5</b>	<b>0,9</b>
Meat, fish, fruit, etc.	6,59	0,0	0,0	0,2	0,3	0,5	0,3
Dairy products	2,00	0,1	0,1	0,0	0,0	0,1	0,1
Grain mill products	3,12	0,1	0,3	0,1	0,1	0,1	0,1
Other food products	7,74	0,9	0,8	0,7	0,5	0,9	0,3
Beverages	6,33	0,3	-0,4	0,0	0,0	0,0	0,1
<b>Textiles, clothing, leather and footwear</b>	<b>3,21</b>	<b>-0,3</b>	<b>0,0</b>	<b>-0,2</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>
Textiles	0,80	-0,1	0,0	-0,1	0,0	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	0,0	-0,1	0,0	0,0	0,0
Leather and leather products	0,48	0,0	-0,1	0,0	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>-0,8</b>	<b>-0,5</b>	<b>-0,3</b>	<b>-0,1</b>	<b>0,4</b>	<b>0,1</b>
Sawmilling and planing of wood	1,69	-0,1	-0,2	0,0	-0,1	0,0	-0,1
Products of wood	2,42	0,2	0,1	0,1	0,1	0,1	0,0
Paper and paper products	4,09	-0,7	-0,2	-0,1	0,0	0,2	0,3
Publishing	1,45	-0,2	-0,1	-0,2	-0,1	0,0	-0,1
Printing, recorded media	1,63	-0,1	-0,1	-0,1	0,0	0,0	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,82</b>	<b>-1,4</b>	<b>0,7</b>	<b>1,0</b>	<b>0,3</b>	<b>0,2</b>	<b>0,1</b>
Coke, petroleum products and nuclear fuel	9,18	-1,3	1,0	0,5	1,1	0,1	0,0
Basic chemicals	4,41	0,4	-0,2	0,4	-0,1	-0,2	-0,1
Other chemical products	6,15	-0,4	-0,4	-0,2	-0,8	0,0	0,0
Rubber products	1,30	-0,2	0,0	0,0	-0,1	0,1	0,0
Plastic products	2,78	0,1	0,2	0,2	0,1	0,2	0,3
<b>Glass and non-metallic mineral products</b>	<b>3,53</b>	<b>-0,2</b>	<b>0,3</b>	<b>0,0</b>	<b>0,1</b>	<b>0,1</b>	<b>0,0</b>
Glass and glass products	0,69	0,0	0,1	0,1	0,1	0,0	0,0
Non-metallic mineral products	2,84	-0,3	0,2	-0,1	0,0	0,1	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,74</b>	<b>-0,5</b>	<b>0,1</b>	<b>0,3</b>	<b>-0,1</b>	<b>0,2</b>	<b>0,4</b>
Basic iron and steel products	3,52	0,0	0,0	0,1	0,5	0,0	0,1
Non-ferrous metal products	2,60	0,0	-0,2	0,2	-0,1	-0,3	0,1
Structural metal products	1,92	-0,2	-0,1	0,1	-0,2	0,1	0,0
Other fabricated metal products	3,84	0,0	0,3	0,2	0,0	0,2	0,1
General purpose machinery	2,57	0,0	0,0	0,0	0,1	0,1	0,0
Special purpose machinery	3,50	-0,3	0,0	-0,3	-0,4	0,1	0,1
Household appliances	0,79	0,0	0,0	0,1	0,0	0,0	0,0
<b>Electrical machinery</b>	<b>1,63</b>	<b>0,0</b>	<b>-0,1</b>	<b>-0,1</b>	<b>-0,2</b>	<b>-0,1</b>	<b>-0,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,59</b>	<b>-0,2</b>	<b>-0,3</b>	<b>-0,2</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	-0,2	-0,1	0,0	0,0	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,20</b>	<b>0,3</b>	<b>0,1</b>	<b>0,7</b>	<b>-0,2</b>	<b>0,6</b>	<b>0,1</b>
Motor vehicles	2,60	0,0	0,0	0,2	-0,2	0,2	0,2
Bodies for motor vehicles, trailers and semi-trailers	0,48	0,0	0,1	0,1	0,0	0,1	0,0
Parts and accessories	2,89	0,3	0,2	0,4	0,2	0,4	0,0
Other transport equipment	1,23	0,0	-0,1	0,1	-0,2	0,0	-0,1
<b>Furniture and other manufacturing</b>	<b>3,22</b>	<b>0,2</b>	<b>0,3</b>	<b>-0,1</b>	<b>-0,1</b>	<b>0,1</b>	<b>0,0</b>
Furniture	1,08	-0,1	0,0	0,1	0,0	0,0	0,0
Other manufacturing groups	2,14	0,2	0,3	-0,2	-0,1	0,1	0,1
<b>Total</b>	<b>100</b>	<b>-1,8</b>	<b>1,2</b>	<b>2,1</b>	<b>0,5</b>	<b>2,8</b>	<b>1,3</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	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Month-on-month % change
<b>Food and beverages</b>	<b>25,78</b>	<b>105,3</b>	<b>104,2</b>	<b>106,4</b>	<b>105,9</b>	<b>104,9</b>	<b>-0,9</b>
Meat, fish, fruit, etc.	6,59	97,3	101,8	103,1	103,5	103,9	0,4
Dairy products	2,00	104,7	103,3	103,0	104,5	106,1	1,5
Grain mill products	3,12	98,2	97,6	99,0	97,9	97,7	-0,2
Other food products	7,74	114,8	112,4	114,9	114,3	110,5	-3,3
Beverages	6,33	105,4	100,1	103,8	102,4	102,1	-0,3
<b>Textiles, clothing, leather and footwear</b>	<b>3,21</b>	<b>91,4</b>	<b>90,2</b>	<b>93,5</b>	<b>92,4</b>	<b>92,3</b>	<b>-0,1</b>
Textiles	0,80	102,0	100,5	108,0	107,8	100,3	-7,0
Other textile products	0,41	99,2	106,1	100,3	100,3	102,4	2,1
Knitted, crocheted articles	0,09	97,4	93,9	99,0	95,3	100,8	5,8
Wearing apparel	1,08	85,2	82,2	85,0	85,8	84,9	-1,0
Leather and leather products	0,48	83,1	79,6	81,2	79,9	84,2	5,4
Footwear	0,35	87,2	86,6	94,1	84,7	94,4	11,5
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,28</b>	<b>94,5</b>	<b>97,7</b>	<b>98,9</b>	<b>100,5</b>	<b>100,5</b>	<b>0,0</b>
Sawmilling and planing of wood	1,69	97,9	107,8	104,3	105,1	107,0	1,8
Products of wood	2,42	103,8	104,0	106,3	105,9	103,1	-2,6
Paper and paper products	4,09	93,4	97,9	98,3	101,1	103,9	2,8
Publishing	1,45	82,5	82,2	85,8	90,6	86,4	-4,6
Printing, recorded media	1,63	91,4	91,8	95,9	95,5	93,9	-1,7
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,82</b>	<b>101,0</b>	<b>98,1</b>	<b>96,9</b>	<b>100,7</b>	<b>102,3</b>	<b>1,6</b>
Coke, petroleum products and nuclear fuel	9,18	106,1	89,7	95,8	102,1	105,0	2,8
Basic chemicals	4,41	101,4	108,3	99,4	96,7	100,1	3,5
Other chemical products	6,15	94,9	98,9	94,8	97,6	97,4	-0,2
Rubber products	1,30	96,2	101,3	90,7	103,9	100,7	-3,1
Plastic products	2,78	98,9	106,4	104,5	107,1	107,9	0,7
<b>Glass and non-metallic mineral products</b>	<b>3,53</b>	<b>97,8</b>	<b>95,8</b>	<b>99,2</b>	<b>98,2</b>	<b>98,2</b>	<b>0,0</b>
Glass and glass products	0,69	108,0	110,5	107,2	104,3	107,9	3,5
Non-metallic mineral products	2,84	95,4	92,3	97,3	96,8	95,9	-0,9
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,74</b>	<b>99,3</b>	<b>103,4</b>	<b>102,8</b>	<b>104,0</b>	<b>104,6</b>	<b>0,6</b>
Basic iron and steel products	3,52	111,0	113,8	115,3	114,5	117,1	2,3
Non-ferrous metal products	2,60	98,6	107,7	104,9	103,5	110,4	6,7
Structural metal products	1,92	83,2	90,1	89,9	96,6	87,0	-9,9
Other fabricated metal products	3,84	105,1	107,5	104,3	106,0	106,5	0,5
General purpose machinery	2,57	94,8	97,6	100,5	99,4	97,0	-2,4
Special purpose machinery	3,50	95,9	98,5	98,8	102,3	103,6	1,3
Household appliances	0,79	89,8	94,5	89,2	89,7	91,4	1,9
<b>Electrical machinery</b>	<b>1,63</b>	<b>78,6</b>	<b>85,2</b>	<b>81,8</b>	<b>81,4</b>	<b>83,2</b>	<b>2,2</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,59</b>	<b>97,1</b>	<b>96,9</b>	<b>91,9</b>	<b>95,2</b>	<b>93,7</b>	<b>-1,6</b>
Radio, television and communication apparatus	0,92	103,1	103,7	95,6	97,8	96,7	-1,1
Professional equipment	0,67	88,9	87,6	86,9	91,6	89,7	-2,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,20</b>	<b>91,7</b>	<b>106,9</b>	<b>103,0</b>	<b>105,4</b>	<b>102,6</b>	<b>-2,7</b>
Motor vehicles	2,60	84,1	99,7	95,6	101,8	99,5	-2,3
Bodies for motor vehicles, trailers and semi-trailers	0,48	102,2	113,6	110,4	111,1	100,2	-9,8
Parts and accessories	2,89	101,5	116,1	113,5	112,0	111,4	-0,5
Other transport equipment	1,23	80,9	97,9	91,3	95,7	89,5	-6,5
<b>Furniture and other manufacturing</b>	<b>3,22</b>	<b>91,6</b>	<b>97,3</b>	<b>96,7</b>	<b>99,9</b>	<b>99,2</b>	<b>-0,7</b>
Furniture	1,08	94,0	99,6	96,2	92,9	97,2	4,6
Other manufacturing groups	2,14	90,4	96,0	96,9	103,6	100,3	-3,2
<b>Total</b>	<b>100</b>	<b>99,2</b>	<b>100,6</b>	<b>100,7</b>	<b>102,1</b>	<b>102,2</b>	<b>0,1</b>

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

Month	2012	2013	2014	2015	2016	2017	2018 <sup>1</sup>
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	194 480
Jun	137 003	145 708	163 114	165 325	179 564	185 638	194 615
Jul	133 816	153 100	152 581	165 809	173 159	177 157	196 493
Aug	140 977	150 611	163 460	163 742	179 525	188 712	204 581
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.

**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	6,8	4,8
Jun	6,4	11,9	1,4	8,6	3,4	4,8	4,8
Jul	14,4	-0,3	8,7	4,4	2,3	10,9	5,7
Aug	6,8	8,5	0,2	9,6	5,1	8,4	6,1
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	159 575	167 075	177 528	184 622	-1,9	1,5	1,7	-1,6
Feb	157 812	170 506	174 658	186 302	-1,1	2,1	-1,6	0,9
Mar	165 055	169 717	176 973	187 031	4,6	-0,5	1,3	0,4
Apr	161 077	172 776	179 383	180 362	-2,4	1,8	1,4	-3,6
May	161 739	175 871	180 137	192 106	0,4	1,8	0,4	6,5
Jun	161 463	175 801	180 286	191 279	-0,2	0,0	0,1	-0,4
Jul	163 835	174 710	180 108	196 645	1,5	-0,6	-0,1	2,8
Aug	162 782	173 540	182 136	196 261	-0,6	-0,7	1,1	-0,2
Sep	165 439	175 574	181 821		1,6	1,2	-0,2	
Oct	165 086	173 039	183 428		-0,2	-1,4	0,9	
Nov	162 947	175 400	192 327		-1,3	1,4	4,9	
Dec	164 653	174 513	187 596		1,0	-0,5	-2,5	

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

<b>Manufacturing division and major group</b>	<b>Mar-18</b>	<b>Apr-18</b>	<b>May-18</b>	<b><sup>1</sup> Jun-18</b>	<b><sup>1</sup> Jul-18</b>	<b><sup>1</sup> Aug-18</b>
<b>Food and beverages</b>	<b>43 272</b>	<b>41 360</b>	<b>42 476</b>	<b>42 578</b>	<b>41 959</b>	<b>46 778</b>
Meat, fish, fruit, etc.	11 961	10 805	12 216	12 244	12 084	12 634
Dairy products	3 916	3 538	3 737	3 671	3 624	3 896
Grain mill products	6 157	5 580	6 106	6 074	6 235	6 363
Other food products	8 568	10 935	9 145	9 539	9 588	11 676
Beverages	12 671	10 502	11 272	11 051	10 428	12 209
<b>Textiles, clothing, leather and footwear</b>	<b>4 669</b>	<b>4 545</b>	<b>4 775</b>	<b>4 608</b>	<b>4 743</b>	<b>4 987</b>
Textiles	595	588	624	622	610	611
Other textile products	1 344	1 299	1 456	1 377	1 389	1 455
Knitted, crocheted articles	241	240	240	228	232	226
Wearing apparel	1 514	1 439	1 446	1 359	1 570	1 634
Leather and leather products	574	606	618	608	514	597
Footwear	401	373	391	415	428	463
<b>Wood and wood products, paper, publishing and printing</b>	<b>13 263</b>	<b>11 950</b>	<b>13 654</b>	<b>14 428</b>	<b>14 283</b>	<b>15 080</b>
Sawmilling and planing of wood	1 015	869	1 114	995	1 038	1 063
Products of wood	2 245	1 891	2 096	2 384	2 060	2 223
Paper and paper products	6 007	5 779	6 543	6 964	6 579	7 330
Publishing	1 397	1 327	1 419	1 566	1 785	1 770
Printing, recorded media	2 600	2 083	2 482	2 519	2 821	2 693
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>37 723</b>	<b>34 528</b>	<b>41 514</b>	<b>40 098</b>	<b>42 239</b>	<b>42 660</b>
Coke, petroleum products and nuclear fuel	11 336	11 792	13 905	13 094	15 167	14 624
Basic chemicals	8 329	6 577	9 067	8 671	8 417	8 514
Other chemical products	11 366	10 173	11 689	11 432	11 383	11 822
Rubber products	1 459	1 217	1 458	1 363	1 414	1 417
Plastic products	5 233	4 768	5 395	5 538	5 858	6 283
<b>Glass and non-metallic mineral products</b>	<b>5 530</b>	<b>5 067</b>	<b>5 986</b>	<b>5 709</b>	<b>5 890</b>	<b>6 013</b>
Glass and glass products	814	813	960	901	888	991
Non-metallic mineral products	4 717	4 254	5 026	4 808	5 002	5 023
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>42 449</b>	<b>37 350</b>	<b>43 783</b>	<b>44 387</b>	<b>45 241</b>	<b>45 570</b>
Basic iron and steel products	11 617	10 043	12 238	12 321	12 078	11 493
Non-ferrous metal products	10 346	9 941	11 442	11 843	12 142	12 772
Structural metal products	2 834	2 347	3 124	3 059	3 251	3 112
Other fabricated metal products	6 528	6 042	6 958	6 547	7 019	7 278
General purpose machinery	3 743	3 138	3 686	3 898	3 652	3 724
Special purpose machinery	6 122	4 755	5 108	5 517	5 963	6 005
Household appliances	1 259	1 086	1 229	1 201	1 138	1 186
<b>Electrical machinery</b>	<b>5 010</b>	<b>3 947</b>	<b>4 624</b>	<b>4 751</b>	<b>4 496</b>	<b>4 652</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 113</b>	<b>1 850</b>	<b>2 085</b>	<b>1 950</b>	<b>2 096</b>	<b>2 130</b>
Radio, television and communication apparatus	1 171	989	1 160	1 083	1 183	1 267
Professional equipment	941	861	925	867	913	863
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>26 883</b>	<b>20 391</b>	<b>27 983</b>	<b>28 119</b>	<b>27 535</b>	<b>28 471</b>
Motor vehicles	14 022	11 158	15 740	16 321	15 715	16 121
Bodies for motor vehicles, trailers and semi-trailers	1 144	958	1 191	1 125	1 149	1 127
Parts and accessories	7 735	6 245	8 155	7 274	7 839	8 337
Other transport equipment	3 982	2 030	2 897	3 399	2 832	2 887
<b>Furniture and other manufacturing</b>	<b>6 817</b>	<b>6 516</b>	<b>7 599</b>	<b>7 987</b>	<b>8 011</b>	<b>8 240</b>
Furniture	1 287	1 249	1 430	1 392	1 408	1 526
Other manufacturing groups	5 529	5 266	6 169	6 594	6 603	6 714
<b>Total</b>	<b>187 729</b>	<b>167 504</b>	<b>194 480</b>	<b>194 615</b>	<b>196 493</b>	<b>204 581</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	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18
<b>Food and beverages</b>	<b>3,6</b>	<b>5,4</b>	<b>5,0</b>	<b>2,3</b>	<b>6,3</b>	<b>6,7</b>
Meat, fish, fruit, etc.	0,0	-1,1	3,7	2,9	5,1	1,4
Dairy products	6,9	5,7	8,6	11,3	8,2	6,5
Grain mill products	-9,7	-3,8	-4,8	-2,8	2,2	0,9
Other food products	9,3	23,5	5,1	1,2	6,6	19,0
Beverages	10,4	1,9	11,4	2,8	9,5	5,2
<b>Textiles, clothing, leather and footwear</b>	<b>-5,9</b>	<b>5,8</b>	<b>1,0</b>	<b>-0,2</b>	<b>0,5</b>	<b>0,8</b>
Textiles	-12,8	-1,2	-10,1	-2,8	-5,3	-5,3
Other textile products	2,3	14,8	12,0	3,7	6,3	9,2
Knitted, crocheted articles	-1,2	10,1	0,4	2,2	5,0	4,6
Wearing apparel	-10,9	2,5	-7,4	-5,1	-5,8	-3,8
Leather and leather products	-4,8	5,6	6,7	-1,3	2,4	-8,9
Footwear	-4,8	0,0	11,1	9,8	12,6	15,2
<b>Wood and wood products, paper, publishing and printing</b>	<b>-5,1</b>	<b>3,7</b>	<b>0,9</b>	<b>4,7</b>	<b>8,4</b>	<b>6,9</b>
Sawmilling and planing of wood	-9,5	13,7	2,7	-5,1	7,8	-5,0
Products of wood	7,4	8,2	5,2	4,2	7,5	3,3
Paper and paper products	-11,1	5,8	2,8	6,4	9,1	13,1
Publishing	-9,8	-9,4	-11,3	-0,7	6,0	0,1
Printing, recorded media	5,7	-0,1	-0,5	8,1	9,3	4,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>2,8</b>	<b>3,3</b>	<b>8,5</b>	<b>6,4</b>	<b>13,0</b>	<b>8,9</b>
Coke, petroleum products and nuclear fuel	8,1	6,7	13,1	10,9	28,3	18,5
Basic chemicals	2,7	-5,9	8,6	9,5	5,3	3,2
Other chemical products	0,4	6,1	7,4	3,1	4,7	0,2
Rubber products	-3,7	3,1	2,4	-7,7	4,1	1,8
Plastic products	-0,3	3,1	1,9	2,8	9,5	16,4
<b>Glass and non-metallic mineral products</b>	<b>-1,5</b>	<b>9,7</b>	<b>5,5</b>	<b>1,0</b>	<b>3,3</b>	<b>2,0</b>
Glass and glass products	15,1	29,7	14,0	10,4	6,3	4,9
Non-metallic mineral products	-3,9	6,6	4,0	-0,6	2,8	1,5
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>0,1</b>	<b>1,5</b>	<b>6,9</b>	<b>7,9</b>	<b>18,1</b>	<b>13,8</b>
Basic iron and steel products	-1,9	-12,8	8,9	12,0	22,1	7,8
Non-ferrous metal products	8,8	11,4	11,7	20,4	32,9	34,1
Structural metal products	-7,3	-1,0	8,4	-5,9	11,5	7,6
Other fabricated metal products	2,3	12,6	7,1	1,3	12,5	9,4
General purpose machinery	3,9	1,0	-0,1	8,5	7,1	2,6
Special purpose machinery	-9,6	4,9	-3,5	-5,1	6,2	7,8
Household appliances	0,7	8,9	10,7	0,3	3,0	7,1
<b>Electrical machinery</b>	<b>-0,8</b>	<b>7,0</b>	<b>0,0</b>	<b>-3,7</b>	<b>-0,7</b>	<b>-0,2</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>-10,5</b>	<b>-16,6</b>	<b>-1,5</b>	<b>-5,3</b>	<b>-2,0</b>	<b>-3,3</b>
Radio, television and communication apparatus	-11,8	-8,3	-1,0	-5,8	-4,9	-8,5
Professional equipment	-9,0	-24,5	-1,9	-4,7	2,0	5,6
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>2,0</b>	<b>8,3</b>	<b>15,2</b>	<b>3,7</b>	<b>10,2</b>	<b>6,1</b>
Motor vehicles	0,7	14,0	18,8	10,2	11,4	5,9
Bodies for motor vehicles, trailers and semi-trailers	2,2	13,6	5,3	7,0	16,6	7,7
Parts and accessories	3,2	8,5	9,5	-1,5	7,1	9,1
Other transport equipment	4,5	-16,5	17,3	-11,8	9,4	-1,3
<b>Furniture and other manufacturing</b>	<b>10,7</b>	<b>14,2</b>	<b>3,0</b>	<b>13,4</b>	<b>18,8</b>	<b>17,4</b>
Furniture	-8,4	1,1	0,1	0,5	-4,1	-3,7
Other manufacturing groups	16,4	17,8	3,7	16,6	25,2	23,6
<b>Total</b>	<b>1,3</b>	<b>4,5</b>	<b>6,8</b>	<b>4,8</b>	<b>10,9</b>	<b>8,4</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	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18
<b>Food and beverages</b>	<b>0,8</b>	<b>1,3</b>	<b>1,1</b>	<b>0,5</b>	<b>1,4</b>	<b>1,6</b>
Meat, fish, fruit, etc.	0,0	-0,1	0,2	0,2	0,3	0,1
Dairy products	0,1	0,1	0,2	0,2	0,2	0,1
Grain mill products	-0,4	-0,1	-0,2	-0,1	0,1	0,0
Other food products	0,4	1,3	0,2	0,1	0,3	1,0
Beverages	0,6	0,1	0,6	0,2	0,5	0,3
<b>Textiles, clothing, leather and footwear</b>	<b>-0,2</b>	<b>0,2</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>
Textiles	0,0	0,0	0,0	0,0	0,0	0,0
Other textile products	0,0	0,1	0,1	0,0	0,0	0,1
Knitted, crocheted articles	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	-0,1	0,0	-0,1	0,0	-0,1	0,0
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>-0,4</b>	<b>0,3</b>	<b>0,1</b>	<b>0,3</b>	<b>0,6</b>	<b>0,5</b>
Sawmilling and planing of wood	-0,1	0,1	0,0	0,0	0,0	0,0
Products of wood	0,1	0,1	0,1	0,1	0,1	0,0
Paper and paper products	-0,4	0,2	0,1	0,2	0,3	0,4
Publishing	-0,1	-0,1	-0,1	0,0	0,1	0,0
Printing, recorded media	0,1	0,0	0,0	0,1	0,1	0,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>0,6</b>	<b>0,7</b>	<b>1,8</b>	<b>1,3</b>	<b>2,7</b>	<b>1,8</b>
Coke, petroleum products and nuclear fuel	0,5	0,5	0,9	0,7	1,9	1,2
Basic chemicals	0,1	-0,3	0,4	0,4	0,2	0,1
Other chemical products	0,0	0,4	0,4	0,2	0,3	0,0
Rubber products	0,0	0,0	0,0	-0,1	0,0	0,0
Plastic products	0,0	0,1	0,1	0,1	0,3	0,5
<b>Glass and non-metallic mineral products</b>	<b>0,0</b>	<b>0,3</b>	<b>0,2</b>	<b>0,0</b>	<b>0,1</b>	<b>0,1</b>
Glass and glass products	0,1	0,1	0,1	0,0	0,0	0,0
Non-metallic mineral products	-0,1	0,2	0,1	0,0	0,1	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>0,0</b>	<b>0,3</b>	<b>1,6</b>	<b>1,8</b>	<b>3,9</b>	<b>2,9</b>
Basic iron and steel products	-0,1	-0,9	0,5	0,7	1,2	0,4
Non-ferrous metal products	0,5	0,6	0,7	1,1	1,7	1,7
Structural metal products	-0,1	0,0	0,1	-0,1	0,2	0,1
Other fabricated metal products	0,1	0,4	0,3	0,0	0,4	0,3
General purpose machinery	0,1	0,0	0,0	0,2	0,1	0,1
Special purpose machinery	-0,4	0,1	-0,1	-0,2	0,2	0,2
Household appliances	0,0	0,1	0,1	0,0	0,0	0,0
<b>Electrical machinery</b>	<b>0,0</b>	<b>0,2</b>	<b>0,0</b>	<b>-0,1</b>	<b>0,0</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>-0,1</b>	<b>-0,2</b>	<b>0,0</b>	<b>-0,1</b>	<b>0,0</b>	<b>0,0</b>
Radio, television and communication apparatus	-0,1	-0,1	0,0	0,0	0,0	-0,1
Professional equipment	-0,1	-0,2	0,0	0,0	0,0	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>0,3</b>	<b>1,0</b>	<b>2,0</b>	<b>0,5</b>	<b>1,4</b>	<b>0,9</b>
Motor vehicles	0,1	0,9	1,4	0,8	0,9	0,5
Bodies for motor vehicles, trailers and semi-trailers	0,0	0,1	0,0	0,0	0,1	0,0
Parts and accessories	0,1	0,3	0,4	-0,1	0,3	0,4
Other transport equipment	0,1	-0,3	0,2	-0,2	0,1	0,0
<b>Furniture and other manufacturing</b>	<b>0,4</b>	<b>0,5</b>	<b>0,1</b>	<b>0,5</b>	<b>0,7</b>	<b>0,6</b>
Furniture	-0,1	0,0	0,0	0,0	0,0	0,0
Other manufacturing groups	0,4	0,5	0,1	0,5	0,8	0,7
<b>Total</b>	<b>1,3</b>	<b>4,5</b>	<b>6,8</b>	<b>4,8</b>	<b>10,9</b>	<b>8,4</b>

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

Manufacturing division and major group	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Month-on-month % change
<b>Food and beverages</b>	<b>44 264</b>	<b>43 758</b>	<b>44 110</b>	<b>44 030</b>	<b>45 462</b>	<b>3,3</b>
Meat, fish, fruit, etc.	11 520	12 191	12 309	12 171	12 250	0,6
Dairy products	3 726	3 857	3 898	3 805	3 888	2,2
Grain mill products	5 852	5 955	6 013	6 076	6 077	0,0
Other food products	10 690	9 433	9 556	9 642	10 898	13,0
Beverages	12 476	12 322	12 334	12 336	12 349	0,1
<b>Textiles, clothing, leather and footwear</b>	<b>4 612</b>	<b>4 745</b>	<b>4 669</b>	<b>4 711</b>	<b>4 708</b>	<b>-0,1</b>
Textiles	591	580	620	612	599	-2,1
Other textile products	1 327	1 416	1 329	1 362	1 354	-0,6
Knitted, crocheted articles	219	215	224	227	225	-0,9
Wearing apparel	1 487	1 481	1 475	1 487	1 516	2,0
Leather and leather products	595	609	585	582	566	-2,7
Footwear	393	445	436	440	449	2,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>13 670</b>	<b>14 050</b>	<b>14 223</b>	<b>14 529</b>	<b>14 549</b>	<b>0,1</b>
Sawmilling and planing of wood	960	1 045	983	1 004	1 005	0,1
Products of wood	2 058	2 128	2 219	2 117	2 118	0,0
Paper and paper products	6 508	6 729	6 703	6 902	7 114	3,1
Publishing	1 548	1 571	1 656	1 785	1 702	-4,6
Printing, recorded media	2 596	2 578	2 662	2 721	2 610	-4,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>37 237</b>	<b>40 409</b>	<b>40 134</b>	<b>41 734</b>	<b>40 753</b>	<b>-2,4</b>
Coke, petroleum products and nuclear fuel	12 495	13 004	12 934	14 427	14 097	-2,3
Basic chemicals	7 056	8 929	8 799	8 580	8 228	-4,1
Other chemical products	11 139	11 509	11 397	11 552	11 089	-4,0
Rubber products	1 277	1 372	1 305	1 374	1 359	-1,1
Plastic products	5 270	5 596	5 700	5 802	5 980	3,1
<b>Glass and non-metallic mineral products</b>	<b>5 416</b>	<b>5 626</b>	<b>5 518</b>	<b>5 601</b>	<b>5 506</b>	<b>-1,7</b>
Glass and glass products	972	970	936	906	923	1,9
Non-metallic mineral products	4 445	4 656	4 582	4 695	4 583	-2,4
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>39 012</b>	<b>42 125</b>	<b>42 451</b>	<b>45 217</b>	<b>44 511</b>	<b>-1,6</b>
Basic iron and steel products	9 879	11 407	11 522	12 671	11 784	-7,0
Non-ferrous metal products	10 385	11 125	11 583	12 364	12 590	1,8
Structural metal products	2 675	2 959	2 884	3 073	2 952	-3,9
Other fabricated metal products	6 405	6 574	6 401	6 679	6 729	0,7
General purpose machinery	3 394	3 618	3 573	3 648	3 546	-2,8
Special purpose machinery	5 116	5 243	5 335	5 606	5 725	2,1
Household appliances	1 158	1 199	1 153	1 176	1 186	0,9
<b>Electrical machinery</b>	<b>4 446</b>	<b>4 574</b>	<b>4 444</b>	<b>4 416</b>	<b>4 510</b>	<b>2,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 133</b>	<b>2 177</b>	<b>2 046</b>	<b>2 101</b>	<b>2 052</b>	<b>-2,3</b>
Radio, television and communication apparatus	1 216	1 273	1 185	1 180	1 154	-2,2
Professional equipment	917	904	860	921	899	-2,4
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>22 518</b>	<b>27 206</b>	<b>25 964</b>	<b>26 460</b>	<b>26 354</b>	<b>-0,4</b>
Motor vehicles	12 709	15 486	15 001	14 887	14 825	-0,4
Bodies for motor vehicles, trailers and semi-trailers	950	1 089	1 092	1 112	1 033	-7,1
Parts and accessories	6 442	7 451	7 022	7 353	7 583	3,1
Other transport equipment	2 417	3 180	2 849	3 108	2 913	-6,3
<b>Furniture and other manufacturing</b>	<b>7 054</b>	<b>7 434</b>	<b>7 721</b>	<b>7 846</b>	<b>7 855</b>	<b>0,1</b>
Furniture	1 389	1 430	1 405	1 372	1 423	3,7
Other manufacturing groups	5 665	6 005	6 315	6 473	6 433	-0,6
<b>Total</b>	<b>180 362</b>	<b>192 106</b>	<b>191 279</b>	<b>196 645</b>	<b>196 261</b>	<b>-0,2</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 August 2018 was 86,1%. The improved collection rate for July 2018 was 89,5%.
- 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.

<b>Period</b>	<b>Source</b>
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 E – 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

## 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.

Stats SA has copyright on this publication. Users may apply the information as they wish, provided that they acknowledge Stats SA as the source of the basic data wherever they process, apply, utilise, publish or distribute the data; and also that they specify that the relevant application and analysis (where applicable) result from their own processing of the data.

## Advance release calendar

An advance release calendar is disseminated on [www.statssa.gov.za](http://www.statssa.gov.za)

## Stats SA products

A complete set of Stats SA publications is available at the Stats SA Library and the following libraries:

National Library of South Africa, Pretoria Division  
National Library of South Africa, Cape Town Division  
Natal Society Library, Pietermaritzburg  
Library of Parliament, Cape Town  
Bloemfontein Public Library  
Johannesburg Public Library  
Eastern Cape Library Services, King William's Town  
Central Regional Library, Polokwane  
Central Reference Library, Mbombela  
Central Reference Collection, Kimberley  
Central Reference Library, Mmabatho

Stats SA also provides a subscription service.

## Electronic services

A large range of data is available via online services. For more details about our electronic data services, contact Stats SA's user information service at (012) 310 8600.

You can visit us on the Internet at: [www.statssa.gov.za](http://www.statssa.gov.za)

## General enquiries

User information services      Telephone number: (012) 310 8600  
Email address: [info@statssa.gov.za](mailto:info@statssa.gov.za)

Postal address      Private Bag X44, Pretoria, 0001

*Produced by Stats SA*