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Department:  
Statistics South Africa  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X44, Pretoria, 0001, South Africa, ISibalo House, Koch Street, Salvokop, Pretoria, 0002  
www.statssa.gov.za, info@statssa.gov.za, Tel +27 12 310 8911

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# Manufacturing: Production and sales (Preliminary)

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

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## Production: results for September 2019

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

	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19
Year-on-year % change, unadjusted	4,7	0,4	-3,6	-0,5	-1,5	-2,4
Month-on-month % change, seasonally adjusted	2,6	-2,2	-1,9	1,0	1,3	-2,4
3-month % change, seasonally adjusted <sup>1</sup>	-1,2	0,1	0,4	-1,2	-1,5	-0,9

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

Manufacturing production decreased by 2,4% in September 2019 compared with September 2018. Nine of the ten manufacturing divisions reported negative growth rates over this period. The largest negative contributions were made by the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (-4,8% and contributing -0,9 of a percentage point);
- wood and wood products, paper, publishing and printing (-6,5% and contributing -0,8 of a percentage point);
- petroleum, chemical products, rubber and plastic products (-2,8% and contributing -0,6 of a percentage point); and
- motor vehicles, parts and accessories and other transport equipment (-3,6% and contributing -0,3 of a percentage point).

The only positive contribution was made by the food and beverages division (2,9% and contributing 0,8 of a percentage point) – see Tables 5 and 6.

Seasonally adjusted manufacturing production decreased by 2,4% in September 2019 compared with August 2019. This followed month-on-month changes of 1,3% in August 2019 and 1,0% in July 2019 – see Table A.

Seasonally adjusted manufacturing production decreased by 0,9% in the third quarter of 2019 compared with the second quarter of 2019. Six of the ten manufacturing divisions reported negative growth rates over this period.

The largest negative contributions were made by the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (-4,0% and contributing -0,8 of a percentage point); and
- petroleum, chemical products, rubber and plastic products (-2,1% and contributing -0,5 of a percentage point).

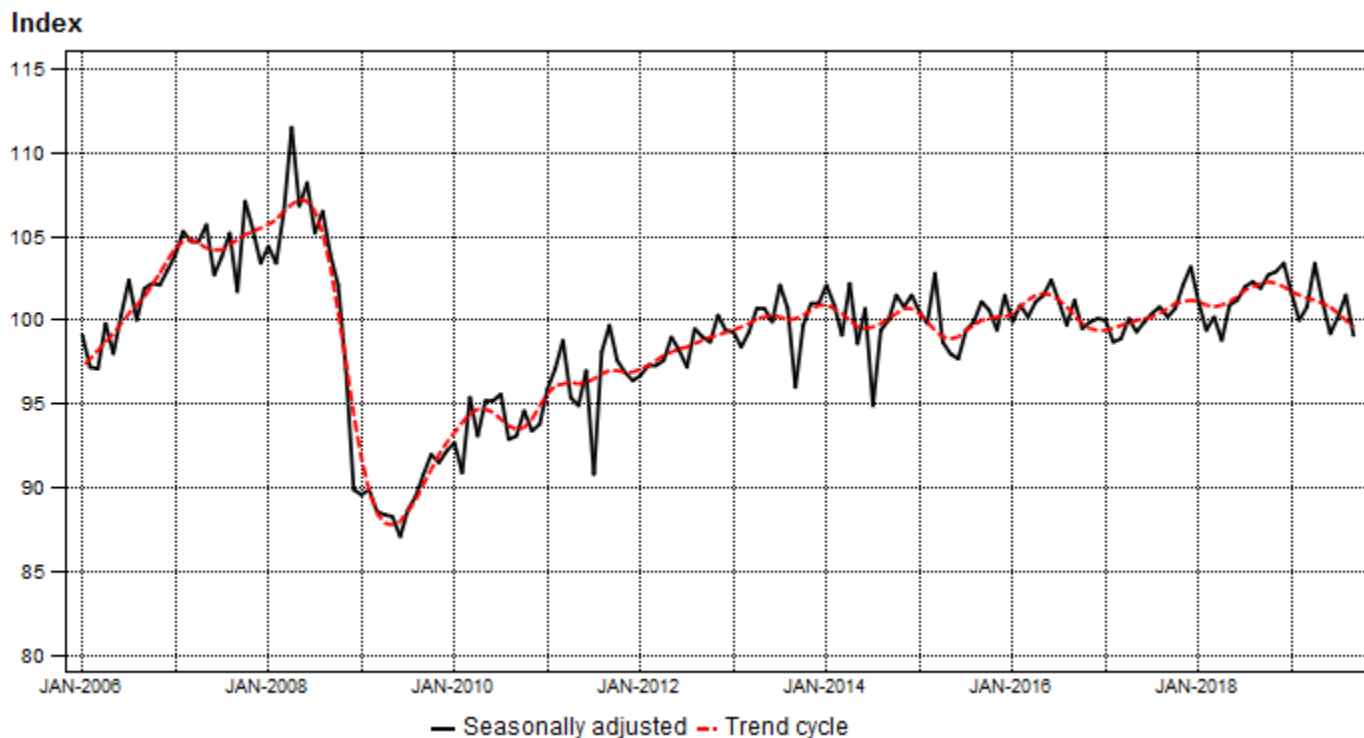
The largest positive contributions were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (3,3% and contributing 0,3 of a percentage point); and
- food and beverages (0,7% and contributing 0,2 of a percentage point) – see Table B.

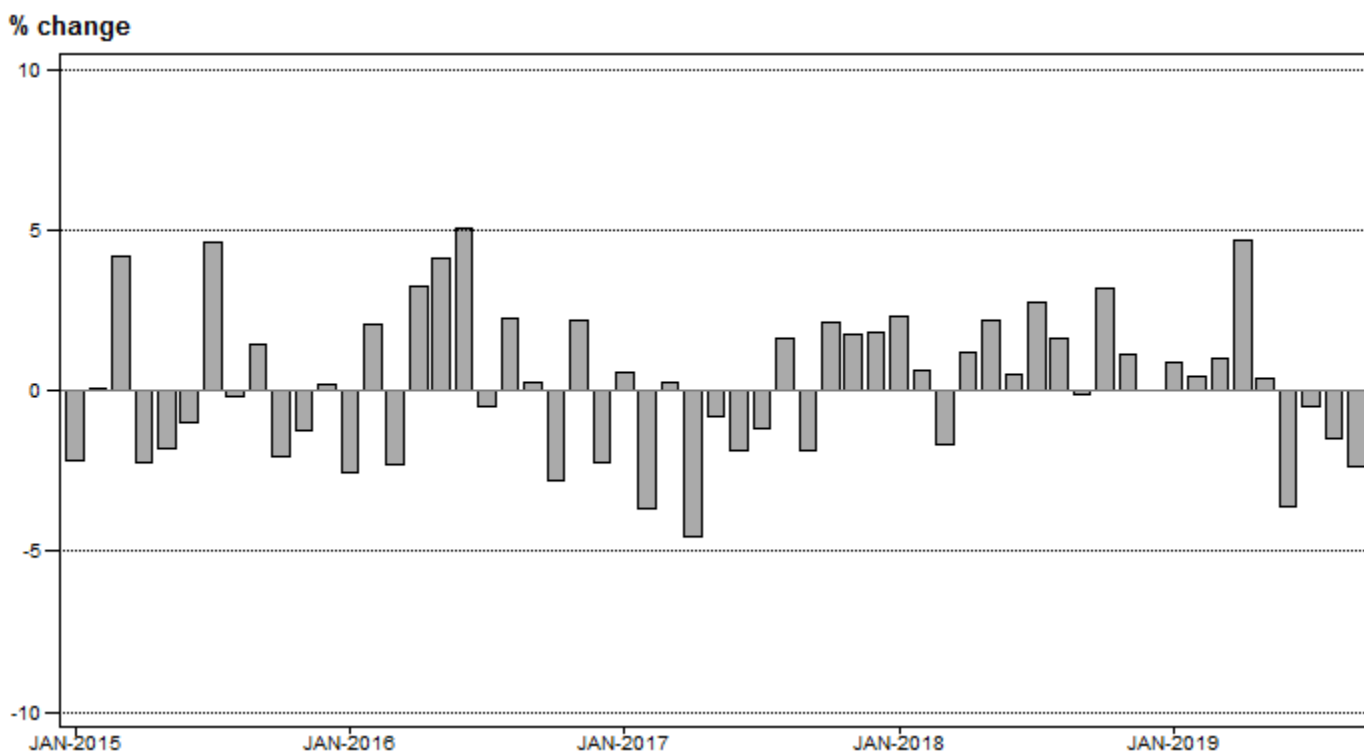
**Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2015=100)**

Manufacturing division and major group	Weights	Apr – Jun 2019	Jul – Sep 2019	% change between Apr – Jun 2019 and Jul – Sep 2019	Contribution (% points) to the total % change
<b>Food and beverages</b>	<b>26,64</b>	<b>109,6</b>	<b>110,4</b>	<b>0,7</b>	<b>0,2</b>
Meat, fish, fruit, etc.	6,69	104,1	103,1	-1,0	-0,1
Dairy products	2,15	119,6	117,8	-1,5	0,0
Grain mill products	3,37	97,5	98,8	1,3	0,0
Other food products	8,14	117,0	119,0	1,7	0,2
Beverages	6,29	108,9	110,6	1,6	0,1
<b>Textiles, clothing, leather and footwear</b>	<b>3,12</b>	<b>88,3</b>	<b>88,8</b>	<b>0,6</b>	<b>0,0</b>
Textiles	0,78	96,0	100,3	4,5	0,0
Other textile products	0,40	94,3	88,1	-6,6	0,0
Knitted, crocheted articles	0,09	85,8	84,0	-2,1	0,0
Wearing apparel	1,04	81,5	84,2	3,3	0,0
Leather and leather products	0,46	75,1	70,1	-6,7	0,0
Footwear	0,35	103,3	104,0	0,7	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,45</b>	<b>95,3</b>	<b>94,5</b>	<b>-0,8</b>	<b>-0,1</b>
Sawmilling and planing of wood	1,73	99,7	97,7	-2,0	0,0
Products of wood	2,57	100,7	99,1	-1,6	0,0
Paper and paper products	4,14	98,1	97,2	-0,9	0,0
Publishing	1,43	76,0	77,8	2,4	0,0
Printing, recorded media	1,58	91,5	91,4	-0,1	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,07</b>	<b>97,3</b>	<b>95,3</b>	<b>-2,1</b>	<b>-0,5</b>
Coke, petroleum products and nuclear fuel	8,67	99,0	93,1	-6,0	-0,5
Basic chemicals	4,29	90,2	95,3	5,7	0,2
Other chemical products	6,19	94,4	92,6	-1,9	-0,1
Rubber products	1,24	100,4	101,6	1,2	0,0
Plastic products	2,68	108,9	106,1	-2,6	-0,1
<b>Glass and non-metallic mineral products</b>	<b>3,18</b>	<b>93,7</b>	<b>90,1</b>	<b>-3,8</b>	<b>-0,1</b>
Glass and glass products	0,66	110,3	107,4	-2,6	0,0
Non-metallic mineral products	2,52	89,3	85,5	-4,3	-0,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,69</b>	<b>102,9</b>	<b>98,8</b>	<b>-4,0</b>	<b>-0,8</b>
Basic iron and steel products	3,57	110,8	102,2	-7,8	-0,3
Non-ferrous metal products	2,58	105,8	100,3	-5,2	-0,1
Structural metal products	1,99	89,8	89,4	-0,4	0,0
Other fabricated metal products	3,79	105,5	99,4	-5,8	-0,2
General purpose machinery	2,58	100,9	99,2	-1,7	0,0
Special purpose machinery	3,41	100,4	97,7	-2,7	-0,1
Household appliances	0,77	95,2	101,5	6,6	0,0
<b>Electrical machinery</b>	<b>1,64</b>	<b>82,9</b>	<b>81,8</b>	<b>-1,3</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,54</b>	<b>90,0</b>	<b>88,1</b>	<b>-2,1</b>	<b>0,0</b>
Radio, television and communication apparatus	0,90	96,7	91,2	-5,7	0,0
Professional equipment	0,64	80,6	83,8	4,0	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,56</b>	<b>105,0</b>	<b>108,5</b>	<b>3,3</b>	<b>0,3</b>
Motor vehicles	2,82	105,4	107,2	1,7	0,1
Bodies for motor vehicles, trailers and semi-trailers	0,47	117,4	111,1	-5,4	0,0
Parts and accessories	3,04	113,8	120,7	6,1	0,2
Other transport equipment	1,23	77,5	80,3	3,6	0,0
<b>Furniture and other manufacturing</b>	<b>3,11</b>	<b>97,1</b>	<b>97,4</b>	<b>0,3</b>	<b>0,0</b>
Furniture	1,07	88,7	83,4	-6,0	-0,1
Other manufacturing groups	2,04	101,5	104,8	3,3	0,1
<b>Total</b>	<b>100</b>	<b>101,2</b>	<b>100,3</b>	<b>-0,9</b>	<b>-0,9</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 September 2019****Table C – Key growth rates in manufacturing sales at current prices**

	<b>Apr-19</b>	<b>May-19</b>	<b>Jun-19</b>	<b>Jul-19</b>	<b>Aug-19</b>	<b>Sep-19</b>
Year-on-year % change, unadjusted	14,8	4,0	3,8	4,7	5,1	0,4
Month-on-month % change, seasonally adjusted	2,9	-3,5	1,5	0,3	2,0	-2,8
3-month % change, seasonally adjusted <sup>1</sup>	1,2	1,8	1,4	-0,1	0,9	0,4

<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 2,8% in September 2019 compared with August 2019. This followed month-on-month changes of 2,0% in August 2019 and 0,3% in July 2019 – see Table C.

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

<b>Manufacturing division</b>	<b>Apr – Jun 2019 (R million)</b>	<b>Jul – Sep 2019 (R million)</b>	<b>% change between Apr – Jun 2019 and Jul – Sep 2019</b>	<b>Contribution (% points) to the total % change</b>
Food and beverages	140 473	142 228	1,2	0,3
Textiles, clothing, leather and footwear	15 326	15 286	-0,3	0,0
Wood and wood products, paper, publishing and printing	41 619	41 326	-0,7	0,0
Petroleum, chemical products, rubber and plastic products	123 364	118 412	-4,0	-0,8
Glass and non-metallic mineral products	16 958	16 869	-0,5	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	137 489	138 456	0,7	0,2
Electrical machinery	13 977	13 910	-0,5	0,0
Radio, television and communication apparatus and professional equipment	6 159	6 159	0,0	0,0
Motor vehicles, parts and accessories and other transport equipment	84 557	88 855	5,1	0,7
Furniture and other manufacturing	21 394	22 473	5,0	0,2
<b>Total</b>	<b>601 315</b>	<b>603 975</b>	<b>0,4</b>	<b>0,4</b>

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

## Tables

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

Month	2013	2014	2015	2016	2017	2018	2019 <sup>1</sup>
Jan	86,6	88,9	87,0	84,8	85,3	87,3	88,1
Feb	93,4	95,5	95,6	97,6	94,0	94,6	95,0
Mar	98,2	99,6	103,8	101,4	101,7	100,0	101,0
Apr	95,6	94,5	92,4	95,4	91,1	92,2	96,5
May	101,9	99,2	97,4	101,4	100,6	102,8	103,2
Jun	98,6	99,8	98,8	103,8	101,9	102,4	98,7
Jul	104,8	97,5	102,0	101,5	100,3	103,1	102,6
Aug	103,8	101,4	101,2	103,5	105,2	106,9	105,3
Sep	99,1	105,5	107,0	107,3	105,3	105,2	102,7
Oct	111,3	113,2	110,9	107,8	110,1	113,6	
Nov	113,1	111,1	109,7	112,1	114,1	115,4	
Dec	92,4	93,9	94,1	92,0	93,7	93,7	
<b>Total</b>	<b>99,9</b>	<b>100,0</b>	<b>100,0</b>	<b>100,7</b>	<b>100,3</b>	<b>101,4</b>	

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

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

Month	2014	2015	2016	2017	2018	2019	2019 year-to-date
Jan	2,7	-2,1	-2,5	0,6	2,3	0,9	0,9
Feb	2,2	0,1	2,1	-3,7	0,6	0,4	0,7
Mar	1,4	4,2	-2,3	0,3	-1,7	1,0	0,7
Apr	-1,2	-2,2	3,2	-4,5	1,2	4,7	1,8
May	-2,6	-1,8	4,1	-0,8	2,2	0,4	1,5
Jun	1,2	-1,0	5,1	-1,8	0,5	-3,6	0,5
Jul	-7,0	4,6	-0,5	-1,2	2,8	-0,5	0,4
Aug	-2,3	-0,2	2,3	1,6	1,6	-1,5	0,1
Sep	6,5	1,4	0,3	-1,9	-0,1	-2,4	-0,2
Oct	1,7	-2,0	-2,8	2,1	3,2		
Nov	-1,8	-1,3	2,2	1,8	1,1		
Dec	1,6	0,2	-2,2	1,8	0,0		
<b>Total</b>	<b>0,1</b>	<b>0,0</b>	<b>0,7</b>	<b>-0,4</b>	<b>1,1</b>		

Table 3 – Seasonally adjusted volume of manufacturing production

Month	Index (Base: 2015=100)				Month-on-month % change			
	2016	2017	2018	2019	2016	2017	2018	2019
Jan	99,9	100,0	101,1	101,6	-1,6	-0,1	-2,0	-1,7
Feb	100,9	98,7	99,4	100,0	1,0	-1,3	-1,7	-1,6
Mar	100,2	98,9	100,2	100,8	-0,7	0,2	0,8	0,8
Apr	101,1	100,1	98,8	103,4	0,9	1,2	-1,4	2,6
May	101,5	99,3	100,9	101,1	0,4	-0,8	2,1	-2,2
Jun	102,4	99,9	101,2	99,2	0,9	0,6	0,3	-1,9
Jul	101,1	100,4	102,0	100,2	-1,3	0,5	0,8	1,0
Aug	99,7	100,8	102,3	101,5	-1,4	0,4	0,3	1,3
Sep	101,2	100,2	101,9	99,1	1,5	-0,6	-0,4	-2,4
Oct	99,5	100,7	102,7		-1,7	0,5	0,8	
Nov	99,9	102,1	102,9		0,4	1,4	0,2	
Dec	100,1	103,2	103,4		0,2	1,1	0,5	

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

Manufacturing division and major group	Weights	Apr-19	May-19	Jun-19	<sup>1</sup> Jul-19	<sup>1</sup> Aug-19	<sup>1</sup> Sep-19
<b>Food and beverages</b>	<b>26,64</b>	<b>101,3</b>	<b>112,2</b>	<b>109,3</b>	<b>111,9</b>	<b>114,8</b>	<b>112,7</b>
Meat, fish, fruit, etc.	6,69	102,2	106,9	101,4	104,2	104,1	102,9
Dairy products	2,15	113,8	117,8	102,9	109,6	118,4	121,7
Grain mill products	3,37	93,9	97,1	97,1	104,1	98,1	100,1
Other food products	8,14	101,2	128,8	136,9	133,1	135,6	127,0
Beverages	6,29	100,2	102,6	90,7	97,6	106,9	108,1
<b>Textiles, clothing, leather and footwear</b>	<b>3,12</b>	<b>86,2</b>	<b>89,5</b>	<b>82,6</b>	<b>94,2</b>	<b>94,8</b>	<b>89,6</b>
Textiles	0,78	93,0	104,4	94,3	107,8	100,3	103,1
Other textile products	0,40	95,6	98,7	88,2	89,8	97,0	89,5
Knitted, crocheted articles	0,09	86,0	91,2	90,4	85,0	83,2	90,4
Wearing apparel	1,04	76,4	80,9	69,3	95,7	95,8	85,6
Leather and leather products	0,46	81,8	77,8	72,0	63,3	69,0	66,0
Footwear	0,35	95,8	86,9	102,2	108,0	114,0	102,7
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,45</b>	<b>84,8</b>	<b>93,0</b>	<b>95,4</b>	<b>96,8</b>	<b>97,6</b>	<b>102,1</b>
Sawmilling and planing of wood	1,73	99,4	106,6	96,8	111,4	99,4	93,0
Products of wood	2,57	92,2	104,2	101,7	102,0	108,6	101,6
Paper and paper products	4,14	84,8	93,4	100,5	95,6	97,7	109,8
Publishing	1,43	63,5	66,0	78,0	78,9	78,8	93,6
Printing, recorded media	1,58	75,8	83,2	85,9	91,7	94,6	100,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,07</b>	<b>95,4</b>	<b>100,4</b>	<b>89,7</b>	<b>93,5</b>	<b>100,4</b>	<b>96,8</b>
Coke, petroleum products and nuclear fuel	8,67	108,5	104,7	83,7	84,7	101,5	93,1
Basic chemicals	4,29	79,2	94,3	87,9	94,9	98,0	97,0
Other chemical products	6,19	87,0	94,5	91,7	92,3	97,5	94,6
Rubber products	1,24	85,9	114,3	99,0	116,3	97,7	101,8
Plastic products	2,68	103,1	103,4	103,1	111,9	108,7	111,0
<b>Glass and non-metallic mineral products</b>	<b>3,18</b>	<b>89,3</b>	<b>103,3</b>	<b>92,8</b>	<b>96,5</b>	<b>99,0</b>	<b>93,8</b>
Glass and glass products	0,66	102,8	111,0	102,6	107,6	123,1	106,8
Non-metallic mineral products	2,52	85,8	101,3	90,2	93,6	92,7	90,4
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,69</b>	<b>103,9</b>	<b>104,7</b>	<b>100,2</b>	<b>101,0</b>	<b>100,0</b>	<b>102,8</b>
Basic iron and steel products	3,57	124,5	118,1	103,9	91,6	90,4	109,0
Non-ferrous metal products	2,58	107,8	111,0	103,2	102,8	100,7	98,9
Structural metal products	1,99	86,0	89,7	90,3	95,1	98,3	94,5
Other fabricated metal products	3,79	109,3	107,7	99,7	107,8	106,7	101,5
General purpose machinery	2,58	99,3	101,0	102,2	100,3	105,2	104,4
Special purpose machinery	3,41	90,5	95,2	100,7	104,3	98,8	106,0
Household appliances	0,77	88,6	100,7	91,8	107,4	101,3	95,1
<b>Electrical machinery</b>	<b>1,64</b>	<b>77,2</b>	<b>85,5</b>	<b>84,1</b>	<b>84,8</b>	<b>87,0</b>	<b>86,6</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,54</b>	<b>81,8</b>	<b>85,5</b>	<b>83,4</b>	<b>88,1</b>	<b>91,8</b>	<b>94,1</b>
Radio, television and communication apparatus	0,90	86,6	94,3	82,1	91,8	98,7	98,9
Professional equipment	0,64	75,1	73,2	85,1	82,9	82,1	87,4
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,56</b>	<b>101,8</b>	<b>109,1</b>	<b>108,0</b>	<b>123,1</b>	<b>124,9</b>	<b>102,6</b>
Motor vehicles	2,82	103,6	107,7	111,0	123,9	132,5	100,6
Bodies for motor vehicles, trailers and semi-trailers	0,47	118,7	122,8	117,5	120,3	126,4	109,9
Parts and accessories	3,04	111,5	124,4	113,2	142,6	134,5	107,4
Other transport equipment	1,23	67,3	69,5	84,7	73,9	83,5	92,4
<b>Furniture and other manufacturing</b>	<b>3,11</b>	<b>83,6</b>	<b>92,8</b>	<b>92,8</b>	<b>102,7</b>	<b>105,6</b>	<b>98,8</b>
Furniture	1,07	79,9	94,9	82,6	85,7	87,7	86,7
Other manufacturing groups	2,04	85,5	91,7	98,1	111,6	115,0	105,2
<b>Total</b>	<b>100</b>	<b>96,5</b>	<b>103,2</b>	<b>98,7</b>	<b>102,6</b>	<b>105,3</b>	<b>102,7</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	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19
<b>Food and beverages</b>	<b>3,9</b>	<b>6,4</b>	<b>2,9</b>	<b>7,2</b>	<b>3,4</b>	<b>2,9</b>
Meat, fish, fruit, etc.	9,4	2,3	-2,7	2,2	-2,5	-2,5
Dairy products	16,7	23,0	9,4	13,0	9,8	12,8
Grain mill products	-0,7	-2,5	-3,4	4,2	-2,6	2,2
Other food products	-7,1	7,5	9,9	8,4	6,0	6,2
Beverages	12,8	8,3	-1,3	10,9	6,9	0,5
<b>Textiles, clothing, leather and footwear</b>	<b>-3,7</b>	<b>-2,7</b>	<b>-9,9</b>	<b>-0,3</b>	<b>-1,9</b>	<b>-5,6</b>
Textiles	-9,3	-4,8	-13,6	-2,4	-2,4	1,4
Other textile products	-2,7	-9,4	-14,6	-12,4	-10,3	-15,6
Knitted, crocheted articles	-15,0	-10,9	-7,7	-15,3	-14,0	-4,7
Wearing apparel	-5,3	2,4	-11,6	0,2	5,5	-3,7
Leather and leather products	-3,8	-6,9	-14,1	-7,9	-21,3	-23,1
Footwear	20,5	8,1	15,9	36,4	15,9	6,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>-0,2</b>	<b>-3,4</b>	<b>-4,8</b>	<b>-4,7</b>	<b>-6,9</b>	<b>-6,5</b>
Sawmilling and planing of wood	6,0	-8,1	-7,1	-0,4	-10,2	-6,4
Products of wood	-4,6	1,9	-8,6	-4,7	0,3	-13,8
Paper and paper products	1,8	-1,2	-0,5	-2,6	-8,7	-5,7
Publishing	-9,7	-12,9	-6,3	-14,1	-14,8	-1,3
Printing, recorded media	1,7	-5,7	-5,4	-7,9	-3,3	-0,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>1,4</b>	<b>0,9</b>	<b>-8,1</b>	<b>-7,1</b>	<b>-4,5</b>	<b>-2,8</b>
Coke, petroleum products and nuclear fuel	2,3	16,7	-12,6	-17,0	-3,3	-5,8
Basic chemicals	-9,5	-17,1	-11,5	-3,0	-6,1	7,3
Other chemical products	2,4	-5,7	-4,9	-4,4	-6,0	-6,8
Rubber products	-4,4	2,5	1,0	7,7	-4,0	3,4
Plastic products	15,6	2,1	0,2	4,1	-2,3	-1,5
<b>Glass and non-metallic mineral products</b>	<b>-3,6</b>	<b>0,9</b>	<b>-12,0</b>	<b>-7,2</b>	<b>-6,6</b>	<b>-6,7</b>
Glass and glass products	6,1	4,7	-4,6	1,4	5,8	-5,9
Non-metallic mineral products	-6,2	-0,2	-14,0	-9,6	-10,3	-6,9
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>9,9</b>	<b>-2,5</b>	<b>-5,3</b>	<b>-4,0</b>	<b>-7,2</b>	<b>-4,8</b>
Basic iron and steel products	8,4	-6,3	-10,7	-15,2	-19,7	-11,8
Non-ferrous metal products	10,8	-0,2	-1,9	0,1	-12,1	-8,8
Structural metal products	17,6	-5,6	-7,1	-5,6	6,8	-0,1
Other fabricated metal products	13,1	-4,8	-6,5	-3,8	-6,1	-6,3
General purpose machinery	13,9	0,4	-3,6	-0,5	3,6	7,9
Special purpose machinery	2,5	1,8	-1,9	-2,9	-8,8	-4,6
Household appliances	1,3	3,9	2,1	27,0	6,6	5,7
<b>Electrical machinery</b>	<b>7,1</b>	<b>-1,8</b>	<b>-6,5</b>	<b>-0,1</b>	<b>-2,8</b>	<b>-2,6</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>-3,9</b>	<b>-7,3</b>	<b>-5,2</b>	<b>-7,7</b>	<b>-6,2</b>	<b>-2,0</b>
Radio, television and communication apparatus	0,3	-0,6	-6,7	-7,1	-7,8	-4,4
Professional equipment	-10,1	-17,3	-3,3	-8,6	-3,8	2,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>18,8</b>	<b>-5,1</b>	<b>-0,6</b>	<b>10,0</b>	<b>11,0</b>	<b>-3,6</b>
Motor vehicles	34,2	-5,0	8,6	8,0	14,5	-6,1
Bodies for motor vehicles, trailers and semi-trailers	16,4	0,2	4,8	0,8	7,5	-7,2
Parts and accessories	11,3	-1,0	-1,6	20,4	12,4	-1,9
Other transport equipment	6,7	-22,3	-20,8	-14,4	-2,5	-0,1
<b>Furniture and other manufacturing</b>	<b>6,9</b>	<b>-3,1</b>	<b>-5,7</b>	<b>-1,2</b>	<b>6,7</b>	<b>-5,5</b>
Furniture	-5,0	-5,0	-12,3	-7,9	-7,6	-10,0
Other manufacturing groups	13,8	-2,1	-2,6	1,8	13,6	-3,4
<b>Total</b>	<b>4,7</b>	<b>0,4</b>	<b>-3,6</b>	<b>-0,5</b>	<b>-1,5</b>	<b>-2,4</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	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19
<b>Food and beverages</b>	<b>26,64</b>	<b>1,1</b>	<b>1,7</b>	<b>0,8</b>	<b>1,9</b>	<b>0,9</b>	<b>0,8</b>
Meat, fish, fruit, etc.	6,69	0,6	0,2	-0,2	0,1	-0,2	-0,2
Dairy products	2,15	0,4	0,5	0,2	0,3	0,2	0,3
Grain mill products	3,37	0,0	-0,1	-0,1	0,1	-0,1	0,1
Other food products	8,14	-0,7	0,7	1,0	0,8	0,6	0,6
Beverages	6,29	0,8	0,5	-0,1	0,6	0,4	0,0
<b>Textiles, clothing, leather and footwear</b>	<b>3,12</b>	<b>-0,1</b>	<b>-0,1</b>	<b>-0,3</b>	<b>0,0</b>	<b>-0,1</b>	<b>-0,2</b>
Textiles	0,78	-0,1	0,0	-0,1	0,0	0,0	0,0
Other textile products	0,40	0,0	0,0	-0,1	0,0	0,0	-0,1
Knitted, crocheted articles	0,09	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	1,04	0,0	0,0	-0,1	0,0	0,0	0,0
Leather and leather products	0,46	0,0	0,0	-0,1	0,0	-0,1	-0,1
Footwear	0,35	0,1	0,0	0,0	0,1	0,1	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,45</b>	<b>0,0</b>	<b>-0,4</b>	<b>-0,5</b>	<b>-0,5</b>	<b>-0,8</b>	<b>-0,8</b>
Sawmilling and planing of wood	1,73	0,1	-0,2	-0,1	0,0	-0,2	-0,1
Products of wood	2,57	-0,1	0,0	-0,2	-0,1	0,0	-0,4
Paper and paper products	4,14	0,1	0,0	0,0	-0,1	-0,4	-0,3
Publishing	1,43	-0,1	-0,1	-0,1	-0,2	-0,2	0,0
Printing, recorded media	1,58	0,0	-0,1	-0,1	-0,1	0,0	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,07</b>	<b>0,3</b>	<b>0,2</b>	<b>-1,8</b>	<b>-1,6</b>	<b>-1,0</b>	<b>-0,6</b>
Coke, petroleum products and nuclear fuel	8,67	0,2	1,3	-1,0	-1,5	-0,3	-0,5
Basic chemicals	4,29	-0,4	-0,8	-0,5	-0,1	-0,3	0,3
Other chemical products	6,19	0,1	-0,3	-0,3	-0,3	-0,4	-0,4
Rubber products	1,24	-0,1	0,0	0,0	0,1	0,0	0,0
Plastic products	2,68	0,4	0,1	0,0	0,1	-0,1	0,0
<b>Glass and non-metallic mineral products</b>	<b>3,18</b>	<b>-0,1</b>	<b>0,0</b>	<b>-0,4</b>	<b>-0,2</b>	<b>-0,2</b>	<b>-0,2</b>
Glass and glass products	0,66	0,0	0,0	0,0	0,0	0,0	0,0
Non-metallic mineral products	2,52	-0,2	0,0	-0,4	-0,2	-0,2	-0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,69</b>	<b>1,9</b>	<b>-0,5</b>	<b>-1,0</b>	<b>-0,8</b>	<b>-1,4</b>	<b>-0,9</b>
Basic iron and steel products	3,57	0,4	-0,3	-0,4	-0,6	-0,7	-0,5
Non-ferrous metal products	2,58	0,3	0,0	-0,1	0,0	-0,3	-0,2
Structural metal products	1,99	0,3	-0,1	-0,1	-0,1	0,1	0,0
Other fabricated metal products	3,79	0,5	-0,2	-0,3	-0,2	-0,2	-0,2
General purpose machinery	2,58	0,3	0,0	-0,1	0,0	0,1	0,2
Special purpose machinery	3,41	0,1	0,1	-0,1	-0,1	-0,3	-0,2
Household appliances	0,77	0,0	0,0	0,0	0,2	0,0	0,0
<b>Electrical machinery</b>	<b>1,64</b>	<b>0,1</b>	<b>0,0</b>	<b>-0,1</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,54</b>	<b>-0,1</b>	<b>-0,1</b>	<b>-0,1</b>	<b>-0,1</b>	<b>-0,1</b>	<b>0,0</b>
Radio, television and communication apparatus	0,90	0,0	0,0	-0,1	-0,1	-0,1	0,0
Professional equipment	0,64	-0,1	-0,1	0,0	0,0	0,0	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,56</b>	<b>1,3</b>	<b>-0,4</b>	<b>-0,1</b>	<b>0,8</b>	<b>0,9</b>	<b>-0,3</b>
Motor vehicles	2,82	0,8	-0,2	0,2	0,3	0,4	-0,2
Bodies for motor vehicles, trailers and semi-trailers	0,47	0,1	0,0	0,0	0,0	0,0	0,0
Parts and accessories	3,04	0,4	0,0	-0,1	0,7	0,4	-0,1
Other transport equipment	1,23	0,1	-0,2	-0,3	-0,1	0,0	0,0
<b>Furniture and other manufacturing</b>	<b>3,11</b>	<b>0,2</b>	<b>-0,1</b>	<b>-0,2</b>	<b>0,0</b>	<b>0,2</b>	<b>-0,2</b>
Furniture	1,07	0,0	-0,1	-0,1	-0,1	-0,1	-0,1
Other manufacturing groups	2,04	0,2	0,0	-0,1	0,0	0,3	-0,1
<b>Total</b>	<b>100</b>	<b>4,7</b>	<b>0,4</b>	<b>-3,6</b>	<b>-0,5</b>	<b>-1,5</b>	<b>-2,4</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	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Month-on-month % change
<b>Food and beverages</b>	<b>26,64</b>	<b>110,6</b>	<b>111,0</b>	<b>111,0</b>	<b>110,8</b>	<b>109,4</b>	<b>-1,3</b>
Meat, fish, fruit, etc.	6,69	104,4	103,2	103,7	103,3	102,4	-0,9
Dairy products	2,15	124,7	115,9	116,8	116,4	120,3	3,4
Grain mill products	3,37	96,3	97,2	99,6	97,8	99,0	1,2
Other food products	8,14	118,9	126,0	119,5	120,2	117,4	-2,3
Beverages	6,29	109,4	105,4	111,7	111,6	108,5	-2,8
<b>Textiles, clothing, leather and footwear</b>	<b>3,12</b>	<b>87,9</b>	<b>86,9</b>	<b>90,1</b>	<b>90,6</b>	<b>85,8</b>	<b>-5,3</b>
Textiles	0,78	95,3	97,0	103,1	99,6	98,3	-1,3
Other textile products	0,40	91,2	91,1	89,0	91,7	83,5	-8,9
Knitted, crocheted articles	0,09	84,4	88,8	81,6	83,5	86,8	4,0
Wearing apparel	1,04	83,7	76,4	84,3	88,2	80,2	-9,1
Leather and leather products	0,46	76,1	72,3	73,7	68,9	67,6	-1,9
Footwear	0,35	96,8	110,1	103,3	107,2	101,4	-5,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,45</b>	<b>94,9</b>	<b>95,0</b>	<b>95,5</b>	<b>93,9</b>	<b>94,0</b>	<b>0,1</b>
Sawmilling and planing of wood	1,73	98,8	99,0	102,6	95,5	95,1	-0,4
Products of wood	2,57	104,7	99,1	99,4	101,0	97,0	-4,0
Paper and paper products	4,14	97,0	98,1	98,5	96,1	96,9	0,8
Publishing	1,43	73,0	78,3	77,9	75,8	79,8	5,3
Printing, recorded media	1,58	88,7	91,1	89,3	91,5	93,4	2,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,07</b>	<b>99,2</b>	<b>91,2</b>	<b>92,4</b>	<b>97,7</b>	<b>95,9</b>	<b>-1,8</b>
Coke, petroleum products and nuclear fuel	8,67	104,7	83,7	84,7	101,5	93,1	-8,3
Basic chemicals	4,29	91,0	90,8	93,4	93,0	99,4	6,9
Other chemical products	6,19	93,1	93,5	93,1	93,0	91,8	-1,3
Rubber products	1,24	102,6	98,7	105,7	95,6	103,4	8,2
Plastic products	2,68	107,0	107,4	108,0	104,7	105,6	0,9
<b>Glass and non-metallic mineral products</b>	<b>3,18</b>	<b>96,2</b>	<b>89,0</b>	<b>89,0</b>	<b>92,1</b>	<b>89,1</b>	<b>-3,3</b>
Glass and glass products	0,66	113,2	104,3	107,4	113,6	101,1	-11,0
Non-metallic mineral products	2,52	91,8	85,0	84,2	86,5	85,9	-0,7
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,69</b>	<b>100,7</b>	<b>99,1</b>	<b>99,1</b>	<b>97,8</b>	<b>99,5</b>	<b>1,7</b>
Basic iron and steel products	3,57	107,5	104,7	100,6	98,2	107,9	9,9
Non-ferrous metal products	2,58	105,5	104,0	102,3	98,6	100,0	1,4
Structural metal products	1,99	85,4	86,0	88,2	91,8	88,3	-3,8
Other fabricated metal products	3,79	101,8	100,5	99,9	100,6	97,7	-2,9
General purpose machinery	2,58	98,2	97,9	97,4	99,5	100,7	1,2
Special purpose machinery	3,41	100,2	98,0	99,1	95,3	98,8	3,7
Household appliances	0,77	98,0	92,6	110,2	99,3	94,9	-4,4
<b>Electrical machinery</b>	<b>1,64</b>	<b>81,0</b>	<b>81,4</b>	<b>81,8</b>	<b>83,3</b>	<b>80,2</b>	<b>-3,7</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,54</b>	<b>89,5</b>	<b>88,2</b>	<b>87,8</b>	<b>88,1</b>	<b>88,4</b>	<b>0,3</b>
Radio, television and communication apparatus	0,90	99,3	90,8	91,5	90,4	91,6	1,3
Professional equipment	0,64	75,8	84,6	82,6	84,8	83,9	-1,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,56</b>	<b>100,0</b>	<b>107,0</b>	<b>113,3</b>	<b>115,1</b>	<b>97,1</b>	<b>-15,6</b>
Motor vehicles	2,82	95,1	108,2	109,1	116,1	96,5	-16,9
Bodies for motor vehicles, trailers and semi-trailers	0,47	111,0	119,8	111,6	115,9	105,9	-8,6
Parts and accessories	3,04	112,5	117,4	131,3	127,4	103,3	-18,9
Other transport equipment	1,23	76,2	73,5	79,0	82,0	79,8	-2,7
<b>Furniture and other manufacturing</b>	<b>3,11</b>	<b>95,3</b>	<b>92,5</b>	<b>95,6</b>	<b>102,8</b>	<b>93,8</b>	<b>-8,8</b>
Furniture	1,07	92,8	84,0	84,0	84,1	82,1	-2,4
Other manufacturing groups	2,04	96,6	97,0	101,7	112,6	100,0	-11,2
<b>Total</b>	<b>100</b>	<b>101,1</b>	<b>99,2</b>	<b>100,2</b>	<b>101,5</b>	<b>99,1</b>	<b>-2,4</b>

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

Month	2013	2014	2015	2016	2017	2018	2019 <sup>1</sup>
Jan	119 905	134 022	133 473	137 588	147 728	154 687	169 331
Feb	136 157	151 015	148 453	160 923	163 040	173 909	184 231
Mar	142 449	156 523	167 441	169 906	182 917	185 238	201 129
Apr	137 911	148 251	147 271	160 631	158 360	165 218	189 590
May	146 004	153 108	158 343	173 256	179 649	191 930	199 608
Jun	143 954	161 108	163 277	177 291	183 043	191 836	199 200
Jul	151 230	150 687	163 881	170 938	174 766	193 760	202 893
Aug	148 680	161 424	161 763	177 283	186 082	201 305	211 487
Sep	145 062	168 001	172 491	184 513	188 393	204 075	204 881
Oct	161 716	181 283	178 929	183 891	197 103	220 644	
Nov	167 607	176 286	179 830	195 991	213 656	225 502	
Dec	144 491	152 737	155 988	163 327	173 384	182 375	
<b>Total</b>	<b>1 745 166</b>	<b>1 894 445</b>	<b>1 931 140</b>	<b>2 055 538</b>	<b>2 148 121</b>	<b>2 290 479</b>	

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

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

Month	2014	2015	2016	2017	2018	2019	2019 year-to-date
Jan	11,8	-0,4	3,1	7,4	4,7	9,5	9,5
Feb	10,9	-1,7	8,4	1,3	6,7	5,9	7,6
Mar	9,9	7,0	1,5	7,7	1,3	8,6	8,0
Apr	7,5	-0,7	9,1	-1,4	4,3	14,8	9,6
May	4,9	3,4	9,4	3,7	6,8	4,0	8,4
Jun	11,9	1,3	8,6	3,2	4,8	3,8	7,6
Jul	-0,4	8,8	4,3	2,2	10,9	4,7	7,1
Aug	8,6	0,2	9,6	5,0	8,2	5,1	6,8
Sep	15,8	2,7	7,0	2,1	8,3	0,4	6,0
Oct	12,1	-1,3	2,8	7,2	11,9		
Nov	5,2	2,0	9,0	9,0	5,5		
Dec	5,7	2,1	4,7	6,2	5,2		
<b>Total</b>	<b>8,6</b>	<b>1,9</b>	<b>6,4</b>	<b>4,5</b>	<b>6,6</b>		

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

Month	R million				Month-on-month % change			
	2016	2017	2018	2019	2016	2017	2018	2019
Jan	165 262	175 352	182 200	198 424	1,6	2,0	-1,7	1,7
Feb	168 896	173 260	185 065	195 907	2,2	-1,2	1,6	-1,3
Mar	167 785	175 728	184 742	198 508	-0,7	1,4	-0,2	1,3
Apr	169 988	175 987	176 846	204 187	1,3	0,1	-4,3	2,9
May	173 658	177 908	189 807	197 060	2,2	1,1	7,3	-3,5
Jun	174 072	178 012	188 801	200 068	0,2	0,1	-0,5	1,5
Jul	172 500	177 526	193 720	200 580	-0,9	-0,3	2,6	0,3
Aug	171 372	179 451	192 960	204 550	-0,7	1,1	-0,4	2,0
Sep	173 786	180 099	199 880	198 845	1,4	0,4	3,6	-2,8
Oct	170 048	179 941	200 226		-2,2	-0,1	0,2	
Nov	172 728	189 134	198 009		1,6	5,1	-1,1	
Dec	171 973	185 266	195 082		-0,4	-2,0	-1,5	

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

Manufacturing division and major group	Apr-19	May-19	Jun-19	<sup>1</sup> Jul-19	<sup>1</sup> Aug-19	<sup>1</sup> Sep-19
<b>Food and beverages</b>	<b>44 989</b>	<b>45 439</b>	<b>43 865</b>	<b>45 332</b>	<b>48 600</b>	<b>47 773</b>
Meat, fish, fruit, etc.	12 469	12 810	12 638	12 919	13 492	12 856
Dairy products	4 192	4 196	3 941	4 142	4 368	4 394
Grain mill products	6 352	6 689	6 482	7 023	6 887	6 933
Other food products	9 811	9 489	9 438	9 865	10 703	10 360
Beverages	12 165	12 254	11 366	11 384	13 151	13 230
<b>Textiles, clothing, leather and footwear</b>	<b>4 893</b>	<b>5 217</b>	<b>4 887</b>	<b>5 291</b>	<b>5 442</b>	<b>5 195</b>
Textiles	634	735	664	734	707	753
Other textile products	1 519	1 661	1 527	1 607	1 711	1 530
Knitted, crocheted articles	243	244	233	227	218	212
Wearing apparel	1 503	1 523	1 388	1 719	1 755	1 683
Leather and leather products	520	572	536	466	484	475
Footwear	474	481	539	537	566	542
<b>Wood and wood products, paper, publishing and printing</b>	<b>11 877</b>	<b>13 321</b>	<b>14 037</b>	<b>13 787</b>	<b>13 856</b>	<b>15 530</b>
Sawmilling and planing of wood	986	965	893	954	943	876
Products of wood	1 800	1 957	2 077	1 857	1 969	1 976
Paper and paper products	5 728	6 735	7 187	6 695	6 795	7 960
Publishing	1 166	1 152	1 364	1 506	1 401	1 728
Printing, recorded media	2 197	2 513	2 517	2 775	2 749	2 989
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>39 175</b>	<b>40 890</b>	<b>40 664</b>	<b>40 514</b>	<b>42 006</b>	<b>39 342</b>
Coke, petroleum products and nuclear fuel	13 662	12 983	13 790	13 640	13 130	11 093
Basic chemicals	7 822	9 139	8 566	8 136	9 214	8 608
Other chemical products	10 574	11 500	11 226	11 037	12 056	11 911
Rubber products	1 355	1 650	1 475	1 588	1 505	1 545
Plastic products	5 761	5 619	5 607	6 113	6 101	6 185
<b>Glass and non-metallic mineral products</b>	<b>5 227</b>	<b>6 114</b>	<b>5 632</b>	<b>5 980</b>	<b>6 081</b>	<b>5 850</b>
Glass and glass products	958	1 035	943	1 068	1 090	1 106
Non-metallic mineral products	4 269	5 079	4 689	4 911	4 991	4 744
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>43 807</b>	<b>46 270</b>	<b>47 535</b>	<b>47 256</b>	<b>47 340</b>	<b>46 602</b>
Basic iron and steel products	10 571	11 742	12 376	10 016	10 255	9 784
Non-ferrous metal products	14 010	14 374	14 997	16 181	15 956	15 656
Structural metal products	3 096	3 241	3 310	3 475	3 479	3 435
Other fabricated metal products	6 626	6 589	6 224	6 959	6 878	6 350
General purpose machinery	3 791	4 017	4 205	3 972	4 290	4 217
Special purpose machinery	4 614	5 126	5 233	5 471	5 307	5 987
Household appliances	1 100	1 181	1 191	1 182	1 175	1 173
<b>Electrical machinery</b>	<b>4 390</b>	<b>4 741</b>	<b>4 687</b>	<b>4 823</b>	<b>4 876</b>	<b>4 817</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1 854</b>	<b>2 022</b>	<b>1 916</b>	<b>2 029</b>	<b>2 151</b>	<b>2 196</b>
Radio, television and communication apparatus	899	1 105	897	1 020	1 140	1 124
Professional equipment	955	917	1 019	1 009	1 012	1 072
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>26 504</b>	<b>28 378</b>	<b>28 920</b>	<b>30 257</b>	<b>33 599</b>	<b>29 696</b>
Motor vehicles	15 884	17 052	17 239	17 745	20 710	17 695
Bodies for motor vehicles, trailers and semi-trailers	1 316	1 295	1 293	1 346	1 384	1 207
Parts and accessories	7 113	7 756	7 602	8 741	8 759	7 750
Other transport equipment	2 191	2 275	2 785	2 424	2 747	3 044
<b>Furniture and other manufacturing</b>	<b>6 875</b>	<b>7 216</b>	<b>7 057</b>	<b>7 624</b>	<b>7 535</b>	<b>7 879</b>
Furniture	1 277	1 436	1 353	1 412	1 440	1 403
Other manufacturing groups	5 598	5 779	5 704	6 212	6 094	6 476
<b>Total</b>	<b>189 590</b>	<b>199 608</b>	<b>199 200</b>	<b>202 893</b>	<b>211 487</b>	<b>204 881</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	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19
<b>Food and beverages</b>	<b>10,7</b>	<b>8,6</b>	<b>4,6</b>	<b>9,6</b>	<b>5,7</b>	<b>7,2</b>
Meat, fish, fruit, etc.	14,8	4,3	2,7	6,5	6,2	-0,1
Dairy products	17,5	11,3	6,5	13,3	11,2	12,5
Grain mill products	16,3	11,9	8,9	14,8	10,3	14,8
Other food products	-4,8	10,0	4,9	9,2	-2,4	16,7
Beverages	16,5	9,4	3,5	9,2	8,1	2,6
<b>Textiles, clothing, leather and footwear</b>	<b>-3,2</b>	<b>-1,5</b>	<b>-4,3</b>	<b>0,6</b>	<b>-1,0</b>	<b>-4,5</b>
Textiles	-9,8	-1,3	-10,6	0,7	-3,2	2,2
Other textile products	-2,9	-5,3	-8,0	-4,1	-2,6	-11,4
Knitted, crocheted articles	-6,9	-6,9	-6,0	-9,9	-10,3	-9,0
Wearing apparel	-0,3	0,6	-2,5	4,5	2,5	0,8
Leather and leather products	-14,2	-7,4	-11,8	-10,4	-17,4	-21,4
Footwear	15,3	20,0	26,8	22,3	20,7	15,6
<b>Wood and wood products, paper, publishing and printing</b>	<b>5,1</b>	<b>3,0</b>	<b>2,8</b>	<b>2,2</b>	<b>-4,1</b>	<b>1,0</b>
Sawmilling and planing of wood	23,1	-5,9	-2,5	-0,2	-5,9	-2,6
Products of wood	5,3	3,2	-3,7	-0,1	-2,5	-9,1
Paper and paper products	2,7	6,7	6,9	5,6	-5,4	1,9
Publishing	0,1	-7,5	-0,7	-3,8	-10,1	4,3
Printing, recorded media	7,1	2,8	1,5	0,0	2,4	5,6
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>14,6</b>	<b>-0,6</b>	<b>2,3</b>	<b>-3,3</b>	<b>-0,9</b>	<b>-7,2</b>
Coke, petroleum products and nuclear fuel	18,3	-4,7	7,5	-8,2	-8,4	-21,5
Basic chemicals	17,4	-0,5	-2,5	-6,9	2,6	-2,4
Other chemical products	6,5	0,8	0,6	-0,8	4,0	0,5
Rubber products	8,1	9,9	5,1	9,1	3,1	6,9
Plastic products	20,1	3,5	0,6	7,0	1,2	0,6
<b>Glass and non-metallic mineral products</b>	<b>1,3</b>	<b>0,3</b>	<b>-3,1</b>	<b>1,2</b>	<b>0,1</b>	<b>1,2</b>
Glass and glass products	13,1	3,6	0,4	15,6	6,3	5,4
Non-metallic mineral products	-1,0	-0,3	-3,8	-1,5	-1,1	0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,6</b>	<b>6,8</b>	<b>8,2</b>	<b>5,5</b>	<b>5,1</b>	<b>2,3</b>
Basic iron and steel products	6,1	-3,3	1,3	-16,4	-10,2	-23,0
Non-ferrous metal products	37,6	22,7	23,6	30,1	22,1	20,9
Structural metal products	25,6	-1,2	3,1	1,7	4,9	4,3
Other fabricated metal products	15,5	-0,2	0,2	4,4	-0,3	-1,3
General purpose machinery	17,5	6,0	4,9	5,6	12,2	14,9
Special purpose machinery	5,7	9,3	3,3	-0,1	-2,9	10,2
Household appliances	11,1	5,4	8,7	13,9	10,3	8,3
<b>Electrical machinery</b>	<b>7,1</b>	<b>-2,1</b>	<b>-4,8</b>	<b>2,9</b>	<b>-1,6</b>	<b>-3,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>-2,5</b>	<b>-5,1</b>	<b>-3,9</b>	<b>-4,1</b>	<b>-1,8</b>	<b>1,9</b>
Radio, television and communication apparatus	0,0	4,7	-8,9	-3,2	-2,4	-1,2
Professional equipment	-4,7	-14,8	1,1	-5,0	-1,0	5,4
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>33,6</b>	<b>4,4</b>	<b>6,1</b>	<b>12,9</b>	<b>23,9</b>	<b>-3,2</b>
Motor vehicles	49,5	13,8	10,9	18,5	40,3	-3,5
Bodies for motor vehicles, trailers and semi-trailers	32,9	5,4	11,3	8,2	10,1	6,6
Parts and accessories	13,1	-5,5	3,8	10,8	4,1	-6,3
Other transport equipment	13,5	-17,4	-13,9	-10,2	2,0	4,0
<b>Furniture and other manufacturing</b>	<b>12,6</b>	<b>1,5</b>	<b>-5,4</b>	<b>2,4</b>	<b>-0,7</b>	<b>11,2</b>
Furniture	-2,4	-4,1	-7,3	-2,3	-3,0	-2,3
Other manufacturing groups	16,8	2,9	-4,9	3,6	-0,1	14,6
<b>Total</b>	<b>14,8</b>	<b>4,0</b>	<b>3,8</b>	<b>4,7</b>	<b>5,1</b>	<b>0,4</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	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19
<b>Food and beverages</b>	<b>2,6</b>	<b>1,9</b>	<b>1,0</b>	<b>2,0</b>	<b>1,3</b>	<b>1,6</b>
Meat, fish, fruit, etc.	1,0	0,3	0,2	0,4	0,4	0,0
Dairy products	0,4	0,2	0,1	0,3	0,2	0,2
Grain mill products	0,5	0,4	0,3	0,5	0,3	0,4
Other food products	-0,3	0,4	0,2	0,4	-0,1	0,7
Beverages	1,0	0,5	0,2	0,5	0,5	0,2
<b>Textiles, clothing, leather and footwear</b>	<b>-0,1</b>	<b>0,0</b>	<b>-0,1</b>	<b>0,0</b>	<b>0,0</b>	<b>-0,1</b>
Textiles	0,0	0,0	0,0	0,0	0,0	0,0
Other textile products	0,0	0,0	-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	0,0	0,0	0,0	0,0	0,0	0,0
Leather and leather products	-0,1	0,0	0,0	0,0	-0,1	-0,1
Footwear	0,0	0,0	0,1	0,1	0,0	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>0,3</b>	<b>0,2</b>	<b>0,2</b>	<b>0,2</b>	<b>-0,3</b>	<b>0,1</b>
Sawmilling and planing of wood	0,1	0,0	0,0	0,0	0,0	0,0
Products of wood	0,1	0,0	0,0	0,0	0,0	-0,1
Paper and paper products	0,1	0,2	0,2	0,2	-0,2	0,1
Publishing	0,0	0,0	0,0	0,0	-0,1	0,0
Printing, recorded media	0,1	0,0	0,0	0,0	0,0	0,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>3,0</b>	<b>-0,1</b>	<b>0,5</b>	<b>-0,7</b>	<b>-0,2</b>	<b>-1,5</b>
Coke, petroleum products and nuclear fuel	1,3	-0,3	0,5	-0,6	-0,6	-1,5
Basic chemicals	0,7	0,0	-0,1	-0,3	0,1	-0,1
Other chemical products	0,4	0,0	0,0	0,0	0,2	0,0
Rubber products	0,1	0,1	0,0	0,1	0,0	0,0
Plastic products	0,6	0,1	0,0	0,2	0,0	0,0
<b>Glass and non-metallic mineral products</b>	<b>0,0</b>	<b>0,0</b>	<b>-0,1</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>
Glass and glass products	0,1	0,0	0,0	0,1	0,0	0,0
Non-metallic mineral products	0,0	0,0	-0,1	0,0	0,0	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>4,2</b>	<b>1,5</b>	<b>1,9</b>	<b>1,3</b>	<b>1,1</b>	<b>0,5</b>
Basic iron and steel products	0,4	-0,2	0,1	-1,0	-0,6	-1,4
Non-ferrous metal products	2,3	1,4	1,5	1,9	1,4	1,3
Structural metal products	0,4	0,0	0,1	0,0	0,1	0,1
Other fabricated metal products	0,5	0,0	0,0	0,2	0,0	0,0
General purpose machinery	0,3	0,1	0,1	0,1	0,2	0,3
Special purpose machinery	0,2	0,2	0,1	0,0	-0,1	0,3
Household appliances	0,1	0,0	0,0	0,1	0,1	0,0
<b>Electrical machinery</b>	<b>0,2</b>	<b>-0,1</b>	<b>-0,1</b>	<b>0,1</b>	<b>0,0</b>	<b>-0,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>0,0</b>	<b>-0,1</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>
Radio, television and communication apparatus	0,0	0,0	0,0	0,0	0,0	0,0
Professional equipment	0,0	-0,1	0,0	0,0	0,0	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>4,0</b>	<b>0,6</b>	<b>0,9</b>	<b>1,8</b>	<b>3,2</b>	<b>-0,5</b>
Motor vehicles	3,2	1,1	0,9	1,4	3,0	-0,3
Bodies for motor vehicles, trailers and semi-trailers	0,2	0,0	0,1	0,1	0,1	0,0
Parts and accessories	0,5	-0,2	0,1	0,4	0,2	-0,3
Other transport equipment	0,2	-0,2	-0,2	-0,1	0,0	0,1
<b>Furniture and other manufacturing</b>	<b>0,5</b>	<b>0,1</b>	<b>-0,2</b>	<b>0,1</b>	<b>0,0</b>	<b>0,4</b>
Furniture	0,0	0,0	-0,1	0,0	0,0	0,0
Other manufacturing groups	0,5	0,1	-0,2	0,1	0,0	0,4
<b>Total</b>	<b>14,8</b>	<b>4,0</b>	<b>3,8</b>	<b>4,7</b>	<b>5,1</b>	<b>0,4</b>

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

Manufacturing division and major group	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Month-on-month % change
<b>Food and beverages</b>	<b>46 874</b>	<b>46 489</b>	<b>47 112</b>	<b>48 096</b>	<b>47 020</b>	<b>-2,2</b>
Meat, fish, fruit, etc.	12 871	12 981	12 914	13 289	12 598	-5,2
Dairy products	4 297	4 213	4 355	4 354	4 393	0,9
Grain mill products	6 585	6 603	6 744	6 808	6 883	1,1
Other food products	9 612	9 548	9 783	10 005	10 083	0,8
Beverages	13 509	13 144	13 317	13 640	13 064	-4,2
<b>Textiles, clothing, leather and footwear</b>	<b>5 080</b>	<b>5 141</b>	<b>5 161</b>	<b>5 156</b>	<b>4 969</b>	<b>-3,6</b>
Textiles	677	696	713	697	718	3,0
Other textile products	1 542	1 581	1 556	1 587	1 445	-8,9
Knitted, crocheted articles	214	233	221	219	218	-0,5
Wearing apparel	1 561	1 531	1 605	1 602	1 575	-1,7
Leather and leather products	546	529	513	490	469	-4,3
Footwear	538	571	552	561	544	-3,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>13 677</b>	<b>13 939</b>	<b>13 910</b>	<b>13 474</b>	<b>13 942</b>	<b>3,5</b>
Sawmilling and planing of wood	901	888	918	884	865	-2,1
Products of wood	1 938	1 935	1 895	1 875	1 842	-1,8
Paper and paper products	6 895	6 936	6 996	6 704	6 950	3,7
Publishing	1 296	1 414	1 429	1 370	1 446	5,5
Printing, recorded media	2 647	2 766	2 672	2 641	2 839	7,5
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>39 687</b>	<b>41 114</b>	<b>39 447</b>	<b>40 505</b>	<b>38 460</b>	<b>-5,0</b>
Coke, petroleum products and nuclear fuel	12 354	13 480	12 793	12 532	11 492	-8,3
Basic chemicals	8 733	8 783	8 015	9 149	8 218	-10,2
Other chemical products	11 306	11 479	11 212	11 442	11 387	-0,5
Rubber products	1 542	1 473	1 511	1 458	1 535	5,3
Plastic products	5 752	5 900	5 916	5 924	5 827	-1,6
<b>Glass and non-metallic mineral products</b>	<b>5 679</b>	<b>5 589</b>	<b>5 621</b>	<b>5 629</b>	<b>5 619</b>	<b>-0,2</b>
Glass and glass products	1 069	997	1 095	1 051	1 032	-1,8
Non-metallic mineral products	4 610	4 592	4 526	4 578	4 588	0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>44 707</b>	<b>46 074</b>	<b>46 543</b>	<b>46 342</b>	<b>45 571</b>	<b>-1,7</b>
Basic iron and steel products	10 977	11 402	10 421	10 486	9 761	-6,9
Non-ferrous metal products	14 110	14 860	16 302	15 742	15 586	-1,0
Structural metal products	3 119	3 196	3 201	3 263	3 219	-1,3
Other fabricated metal products	6 207	6 329	6 423	6 395	6 202	-3,0
General purpose machinery	3 912	3 897	3 938	4 054	4 087	0,8
Special purpose machinery	5 231	5 216	5 069	5 216	5 552	6,4
Household appliances	1 151	1 174	1 190	1 187	1 164	-1,9
<b>Electrical machinery</b>	<b>4 670</b>	<b>4 486</b>	<b>4 698</b>	<b>4 661</b>	<b>4 551</b>	<b>-2,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 055</b>	<b>2 015</b>	<b>2 037</b>	<b>2 058</b>	<b>2 064</b>	<b>0,3</b>
Radio, television and communication apparatus	1 146	1 002	1 034	1 033	1 030	-0,3
Professional equipment	909	1 013	1 003	1 025	1 033	0,8
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>27 531</b>	<b>28 237</b>	<b>28 788</b>	<b>31 323</b>	<b>28 744</b>	<b>-8,2</b>
Motor vehicles	16 702	16 741	16 980	19 370	17 288	-10,7
Bodies for motor vehicles, trailers and semi-trailers	1 122	1 313	1 224	1 298	1 191	-8,2
Parts and accessories	7 201	7 732	8 041	7 933	7 672	-3,3
Other transport equipment	2 505	2 451	2 543	2 722	2 593	-4,7
<b>Furniture and other manufacturing</b>	<b>7 101</b>	<b>6 984</b>	<b>7 262</b>	<b>7 306</b>	<b>7 905</b>	<b>8,2</b>
Furniture	1 404	1 389	1 357	1 388	1 365	-1,7
Other manufacturing groups	5 696	5 595	5 905	5 918	6 540	10,5
<b>Total</b>	<b>197 060</b>	<b>200 068</b>	<b>200 580</b>	<b>204 550</b>	<b>198 845</b>	<b>-2,8</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 September 2019 was 78,9%. The improved collection rate for August 2019 was 83,8%.
- 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 3 081 enterprises from a population of 49 776 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 2019 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)**

<b>Enterprise size</b>	<b>Size group</b>	<b>Lower limits</b>	<b>Upper limits</b>
Very small	4	1 961 626	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 2019	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		
	2015 (based on value added for 2013 – 2015)	2016 (based on value added for 2014 – 2016)	2017 – 2019 (based on value added for 2015 – 2017)
<b>Food and beverages</b>	<b>25,15</b>	<b>25,78</b>	<b>26,64</b>
Meat, fish, fruit, etc.	6,39	6,59	6,69
Dairy products	1,89	2,00	2,15
Grain mill products	2,86	3,12	3,37
Other food products	7,62	7,74	8,14
Beverages	6,39	6,33	6,29
<b>Textiles, clothing, leather and footwear</b>	<b>3,28</b>	<b>3,21</b>	<b>3,12</b>
Textiles	0,83	0,80	0,78
Other textile products	0,41	0,41	0,40
Knitted, crocheted articles	0,09	0,09	0,09
Wearing apparel	1,10	1,08	1,04
Leather and leather products	0,49	0,48	0,46
Footwear	0,36	0,35	0,35
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,62</b>	<b>11,28</b>	<b>11,45</b>
Sawmilling and planing of wood	1,71	1,69	1,73
Products of wood	2,37	2,42	2,57
Paper and paper products	4,33	4,09	4,14
Publishing	1,49	1,45	1,43
Printing, recorded media	1,72	1,63	1,58
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,01</b>	<b>23,82</b>	<b>23,07</b>
Coke, petroleum products and nuclear fuel	9,29	9,18	8,67
Basic chemicals	4,36	4,41	4,29
Other chemical products	6,16	6,15	6,19
Rubber products	1,34	1,30	1,24
Plastic products	2,86	2,78	2,68
<b>Glass and non-metallic mineral products</b>	<b>3,90</b>	<b>3,53</b>	<b>3,18</b>
Glass and glass products	0,74	0,69	0,66
Non-metallic mineral products	3,16	2,84	2,52
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,72</b>	<b>18,74</b>	<b>18,69</b>
Basic iron and steel products	3,44	3,52	3,57
Non-ferrous metal products (including precious metals)	2,73	2,60	2,58
Structural metal products	1,86	1,92	1,99
Other fabricated metal products	3,86	3,84	3,79
General purpose machinery	2,51	2,57	2,58
Special purpose machinery	3,51	3,50	3,41
Household appliances	0,81	0,79	0,77
<b>Electrical machinery</b>	<b>1,65</b>	<b>1,63</b>	<b>1,64</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,61</b>	<b>1,59</b>	<b>1,54</b>
Radio, television and communication apparatus	0,93	0,92	0,90
Professional equipment	0,68	0,67	0,64
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>6,86</b>	<b>7,20</b>	<b>7,56</b>
Motor vehicles	2,43	2,60	2,82
Bodies for motor vehicles, trailers and semi-trailers	0,46	0,48	0,47
Parts and accessories	2,76	2,89	3,04
Other transport equipment	1,21	1,23	1,23
<b>Furniture and other manufacturing</b>	<b>3,20</b>	<b>3,22</b>	<b>3,11</b>
Furniture	1,09	1,08	1,07
Other manufacturing groups	2,11	2,14	2,04
<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](mailto:nicolaic@statssa.gov.za)

