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## **STATISTICAL RELEASE**

### **P3041.2**

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

**April 2020**

The disruptions resulting from the COVID-19 lockdown have affected Statistics South Africa's operations.

Please see the note on page 6 for further information on the impact of the pandemic on the estimates.

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**The South Africa I know, the home I understand**



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## Production: results for April 2020

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

	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20
Year-on-year % change, unadjusted	-3,5	-6,3	-1,9	-2,1	-5,5	-49,4
Month-on-month % change, seasonally adjusted	-1,8	-3,2	3,0	-2,7	-1,2	-44,3
3-month % change, seasonally adjusted <sup>1</sup>	0,2	-0,6	-1,8	-2,5	-2,0	-16,9

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

The COVID-19 pandemic and lockdown regulations since 27 March 2020 have had an extensive impact on economic activity.

Manufacturing production decreased by 49,4% in April 2020 compared with April 2019. The largest contributions were made by the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (-65,4% and contributing -13,2 percentage points);
- petroleum, chemical products, rubber and plastic products (-41,5% and contributing -9,5 percentage points);
- motor vehicles, parts and accessories and other transport equipment (-98,0% and contributing -7,8 percentage points);
- food and beverages (-19,4% and contributing -5,4 percentage points); and
- wood and wood products, paper, publishing and printing (-49,2% and contributing -4,9 percentage points) – see Tables 5 and 6.

Seasonally adjusted manufacturing production decreased by 44,3% in April 2020 compared with March 2020. This followed month-on-month changes of -1,2% in March 2020 and -2,7% in February 2020 – see Table A.

Seasonally adjusted manufacturing production decreased by 16,9% in the three months ended April 2020 compared with the previous three months. All ten manufacturing divisions reported negative growth rates over this period.

The largest negative contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-17,4% and contributing -4,1 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (-22,0% and contributing -4,1 percentage points);
- food and beverages (-8,2% and contributing -2,4 percentage points);
- motor vehicles, parts and accessories and other transport equipment (-27,2% and contributing -1,9 percentage points); and
- wood and wood products, paper, publishing and printing (-15,0% and contributing -1,6 percentage points) – 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	Nov 2019 – Jan 2020	Feb – Apr 2020	% change between Nov 2019 – Jan 2020 and Feb – Apr 2020	Contribution (% points) to the total % change
<b>Food and beverages</b>	<b>26,64</b>	<b>109,4</b>	<b>100,4</b>	<b>-8,2</b>	<b>-2,4</b>
Meat, fish, fruit, etc.	6,69	102,9	102,8	-0,1	0,0
Dairy products	2,15	108,9	104,2	-4,3	-0,1
Grain mill products	3,37	97,1	99,9	2,9	0,1
Other food products	8,14	119,4	114,1	-4,4	-0,4
Beverages	6,29	110,0	79,0	-28,2	-2,0
<b>Textiles, clothing, leather and footwear</b>	<b>3,12</b>	<b>80,6</b>	<b>59,7</b>	<b>-25,9</b>	<b>-0,7</b>
Textiles	0,78	91,0	62,1	-31,8	-0,2
Other textile products	0,40	85,7	69,6	-18,8	-0,1
Knitted, crocheted articles	0,09	68,5	41,9	-38,8	0,0
Wearing apparel	1,04	74,9	57,7	-23,0	-0,2
Leather and leather products	0,46	61,0	53,3	-12,6	0,0
Footwear	0,35	97,7	62,6	-35,9	-0,1
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,45</b>	<b>89,4</b>	<b>76,0</b>	<b>-15,0</b>	<b>-1,6</b>
Sawmilling and planing of wood	1,73	94,1	67,8	-27,9	-0,5
Products of wood	2,57	95,5	75,1	-21,4	-0,5
Paper and paper products	4,14	88,6	89,5	1,0	0,0
Publishing	1,43	72,7	57,9	-20,4	-0,2
Printing, recorded media	1,58	91,7	67,9	-26,0	-0,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,07</b>	<b>100,0</b>	<b>82,6</b>	<b>-17,4</b>	<b>-4,1</b>
Coke, petroleum products and nuclear fuel	8,67	105,9	68,8	-35,0	-3,3
Basic chemicals	4,29	96,1	95,9	-0,2	0,0
Other chemical products	6,19	95,1	90,3	-5,0	-0,3
Rubber products	1,24	93,3	75,3	-19,3	-0,2
Plastic products	2,68	101,9	91,3	-10,4	-0,3
<b>Glass and non-metallic mineral products</b>	<b>3,18</b>	<b>90,6</b>	<b>61,2</b>	<b>-32,5</b>	<b>-0,9</b>
Glass and glass products	0,66	113,7	86,5	-23,9	-0,2
Non-metallic mineral products	2,52	84,6	54,5	-35,6	-0,8
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,69</b>	<b>98,5</b>	<b>76,8</b>	<b>-22,0</b>	<b>-4,1</b>
Basic iron and steel products	3,57	107,9	78,8	-27,0	-1,1
Non-ferrous metal products	2,58	97,7	87,6	-10,3	-0,3
Structural metal products	1,99	84,5	62,4	-26,2	-0,4
Other fabricated metal products	3,79	94,7	71,5	-24,5	-0,9
General purpose machinery	2,58	98,7	77,1	-21,9	-0,6
Special purpose machinery	3,41	99,9	81,1	-18,8	-0,6
Household appliances	0,77	104,2	73,6	-29,4	-0,2
<b>Electrical machinery</b>	<b>1,64</b>	<b>75,2</b>	<b>57,3</b>	<b>-23,8</b>	<b>-0,3</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,54</b>	<b>89,9</b>	<b>68,4</b>	<b>-23,9</b>	<b>-0,3</b>
Radio, television and communication apparatus	0,90	94,4	70,2	-25,6	-0,2
Professional equipment	0,64	83,6	65,9	-21,2	-0,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,56</b>	<b>91,5</b>	<b>66,6</b>	<b>-27,2</b>	<b>-1,9</b>
Motor vehicles	2,82	86,1	64,3	-25,3	-0,6
Bodies for motor vehicles, trailers and semi-trailers	0,47	103,2	68,1	-34,0	-0,2
Parts and accessories	3,04	98,7	73,0	-26,0	-0,8
Other transport equipment	1,23	81,6	55,8	-31,6	-0,3
<b>Furniture and other manufacturing</b>	<b>3,11</b>	<b>95,5</b>	<b>74,4</b>	<b>-22,1</b>	<b>-0,7</b>
Furniture	1,07	84,4	57,5	-31,9	-0,3
Other manufacturing groups	2,04	101,4	83,3	-17,9	-0,4
<b>Total</b>	<b>100</b>	<b>98,7</b>	<b>82,0</b>	<b>-16,9</b>	<b>-16,9</b>

Figure 1 – Volume of manufacturing production (Base: 2015=100)

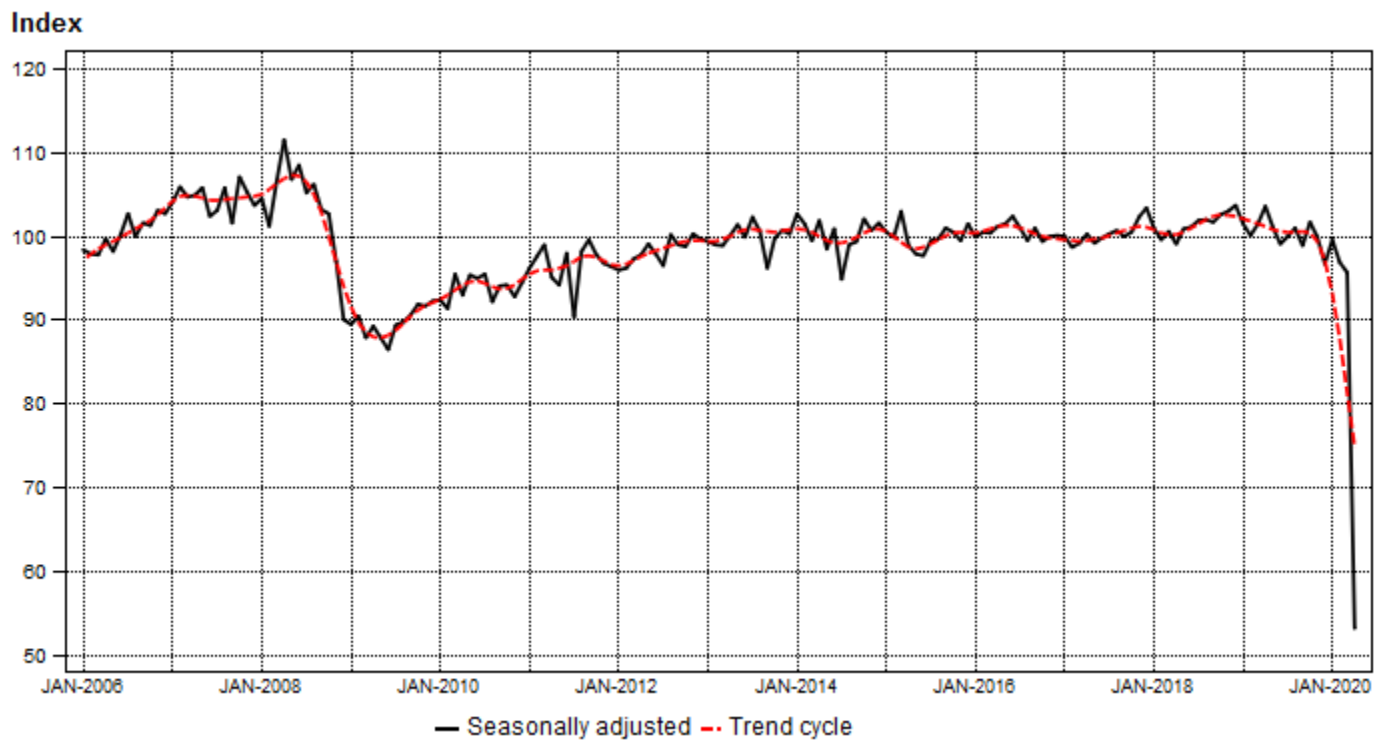
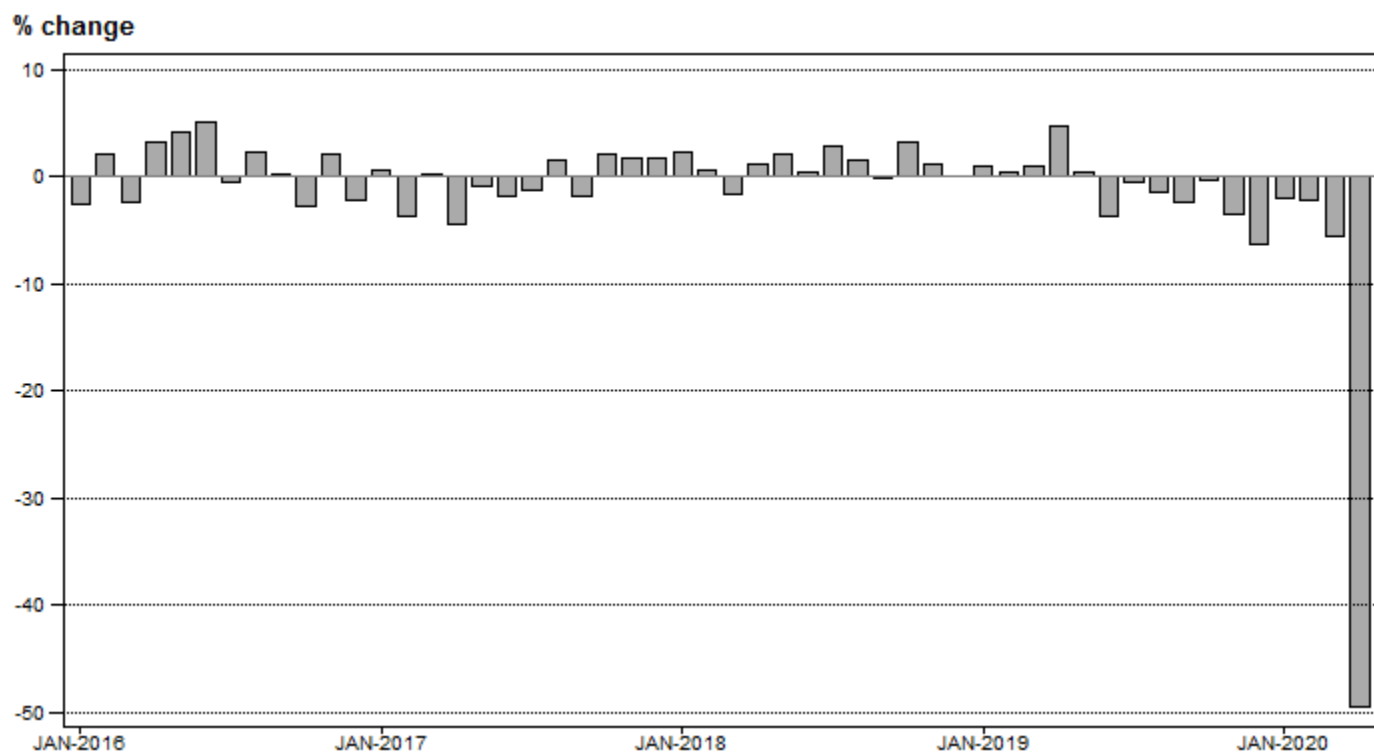


Figure 2 – Volume of manufacturing production (Base: 2015=100): year-on-year percentage change



**Sales: results for April 2020****Table C – Key growth rates in manufacturing sales at current prices**

	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20
Year-on-year % change, unadjusted	-2,1	-3,3	-0,7	2,6	-5,1	-50,7
Month-on-month % change, seasonally adjusted	-2,2	-3,9	4,5	2,1	-5,4	-46,0
3-month % change, seasonally adjusted <sup>1</sup>	-1,9	-3,1	-3,6	-1,4	0,6	-15,0

<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 46,0% in April 2020 compared with March 2020. This followed month-on-month changes of -5,4% in March 2020 and 2,1% in February 2020 – see Table C.

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

Manufacturing division	Nov 2019 – Jan 2020 (R million)	Feb – Apr 2020 (R million)	% change between Nov 2019 – Jan 2020 and Feb – Apr 2020	Contribution (% points) to the total % change
Food and beverages	142 557	134 514	-5,6	-1,4
Textiles, clothing, leather and footwear	14 310	11 162	-22,0	-0,5
Wood and wood products, paper, publishing and printing	39 442	35 097	-11,0	-0,7
Petroleum, chemical products, rubber and plastic products	120 867	102 620	-15,1	-3,2
Glass and non-metallic mineral products	16 504	10 939	-33,7	-1,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	126 555	105 687	-16,5	-3,6
Electrical machinery	13 341	10 401	-22,0	-0,5
Radio, television and communication apparatus and professional equipment	6 290	4 837	-23,1	-0,3
Motor vehicles, parts and accessories and other transport equipment	77 709	60 293	-22,4	-3,0
Furniture and other manufacturing	21 700	16 747	-22,8	-0,9
<b>Total</b>	<b>579 276</b>	<b>492 297</b>	<b>-15,0</b>	<b>-15,0</b>

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Statistician-General

## **Note: Impact of COVID-19 on manufacturing production and sales**

### **Revisions to preliminary data**

The global COVID-19 pandemic has had an extensive impact on the South African economy. Strict lockdown regulations came into force on 27 March 2020.

Lockdown measures placed many restrictions on social and economic activity across the world and severely affected the collection of data for official statistics. In most countries staff at national statistical offices had to adapt to new working conditions, including Statistics South Africa. In the case of enterprise surveys, many businesses were difficult or impossible to contact or were simply not able to supply their usual information.

With effect from April 2020, many statistical releases were delayed and/or published with relatively low collection rates and, therefore, relatively high degrees of imputation. Lower than normal collection rates typically result in higher than normal revisions. Collection rates are reported monthly in the Survey information section (see page 17 of this release).

### **Changes to the imputation method for manufacturing production and sales**

Data are imputed for enterprises if they were unable to supply their data (non-respondents). For the manufacturing production and sales survey, historical imputation was used up to March 2020.

Historical imputation is used if data for a specific non-respondent are available in the previous year. The month-on-month growth rates for the enterprise's data are calculated for the same period in the previous year and applied to the data reported by the enterprise in the current year for the previous period. This method ensures that data are imputed based on a specific enterprise's historical pattern or seasonality.

If the data for a specific non-respondent in the previous year are not available, a variant of historical imputation is used. The month-on-month growth rates for the major manufacturing group under which the enterprise falls are calculated for the same period in the previous year and applied to the data reported by the enterprise in the previous period in the current year.

The historical imputation method has limitations when major economic shocks, natural disasters, labour strikes, global pandemics, etc. drastically alter current trends. In such cases historical patterns provide an inadequate basis for imputation and an alternative approach is required.

On account of the COVID-19 pandemic, data for the April 2020 manufacturing survey were imputed using a method similar to the nearest neighbour's trend method. The steps are outlined below:

- Enterprises were identified that supplied data (respondents) in both March 2020 and April 2020.
- Aggregates were calculated for the respondents within the individual size groups (see technical note 3 on page 18) for each major manufacturing group.
- Month-on-month growth rates between March 2020 and April 2020 were calculated for the aggregates in the previous step.
- April 2020 data were imputed by applying the month-on-month growth rates to the March 2020 data for the non-respondents.

The imputation method used for the April 2020 estimates will be continued for as long as required by COVID-19 conditions and developments.

## Tables

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

Month	2014	2015	2016	2017	2018	2019	2020 <sup>1</sup>
Jan	88,9	87,0	84,8	85,3	87,3	88,1	86,4
Feb	95,5	95,6	97,6	94,0	94,6	95,0	93,0
Mar	99,6	103,8	101,4	101,7	100,0	101,0	95,4
Apr	94,5	92,4	95,4	91,1	92,2	96,5	48,8
May	99,2	97,4	101,4	100,6	102,8	103,2	
Jun	99,8	98,8	103,8	101,9	102,4	98,7	
Jul	97,5	102,0	101,5	100,3	103,1	102,5	
Aug	101,4	101,2	103,5	105,2	106,9	105,3	
Sep	105,5	107,0	107,3	105,3	105,2	102,8	
Oct	113,2	110,9	107,8	110,1	113,6	113,2	
Nov	111,1	109,7	112,1	114,1	115,4	111,4	
Dec	93,9	94,1	92,0	93,7	93,7	87,8	
<b>Total</b>	<b>100,0</b>	<b>100,0</b>	<b>100,7</b>	<b>100,3</b>	<b>101,4</b>	<b>100,5</b>	

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

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

Month	2015	2016	2017	2018	2019	2020	2020 year-to-date
Jan	-2,1	-2,5	0,6	2,3	0,9	-1,9	-1,9
Feb	0,1	2,1	-3,7	0,6	0,4	-2,1	-2,1
Mar	4,2	-2,3	0,3	-1,7	1,0	-5,5	-3,3
Apr	-2,2	3,2	-4,5	1,2	4,7	-49,4	-15,0
May	-1,8	4,1	-0,8	2,2	0,4		
Jun	-1,0	5,1	-1,8	0,5	-3,6		
Jul	4,6	-0,5	-1,2	2,8	-0,6		
Aug	-0,2	2,3	1,6	1,6	-1,5		
Sep	1,4	0,3	-1,9	-0,1	-2,3		
Oct	-2,0	-2,8	2,1	3,2	-0,4		
Nov	-1,3	2,2	1,8	1,1	-3,5		
Dec	0,2	-2,2	1,8	0,0	-6,3		
<b>Total</b>	<b>0,0</b>	<b>0,7</b>	<b>-0,4</b>	<b>1,1</b>	<b>-0,9</b>		

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

Month	Index (Base: 2015=100)				Month-on-month % change			
	2017	2018	2019	2020	2017	2018	2019	2020
Jan	100,0	101,0	101,5	99,6	-0,1	-2,3	-2,1	3,0
Feb	98,7	99,6	100,1	96,9	-1,3	-1,4	-1,4	-2,7
Mar	99,2	100,6	101,5	95,7	0,5	1,0	1,4	-1,2
Apr	100,3	99,1	103,6	53,3	1,1	-1,5	2,1	-44,3
May	99,2	100,9	101,1		-1,1	1,8	-2,4	
Jun	99,8	101,1	99,1		0,6	0,2	-2,0	
Jul	100,3	101,9	100,0		0,5	0,8	0,9	
Aug	100,7	102,0	101,0		0,4	0,1	1,0	
Sep	100,0	101,7	98,9		-0,7	-0,3	-2,1	
Oct	100,5	102,6	101,7		0,5	0,9	2,8	
Nov	102,3	103,0	99,9		1,8	0,4	-1,8	
Dec	103,4	103,7	96,7		1,1	0,7	-3,2	



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

Manufacturing division and major group	Weights	Nov-19	Dec-19	Jan-20	<sup>1</sup> Feb-20	<sup>1</sup> Mar-20	<sup>1</sup> Apr-20
<b>Food and beverages</b>	<b>26,64</b>	<b>125,8</b>	<b>111,4</b>	<b>95,6</b>	<b>98,5</b>	<b>102,2</b>	<b>81,6</b>
Meat, fish, fruit, etc.	6,69	112,0	105,9	93,7	99,0	107,7	92,7
Dairy products	2,15	117,6	119,0	108,8	101,6	109,8	95,4
Grain mill products	3,37	106,9	95,3	91,2	92,9	100,9	96,1
Other food products	8,14	131,5	100,7	96,7	93,4	97,9	105,2
Beverages	6,29	146,1	137,2	94,2	106,6	100,1	26,9
<b>Textiles, clothing, leather and footwear</b>	<b>3,12</b>	<b>95,6</b>	<b>66,6</b>	<b>59,9</b>	<b>76,4</b>	<b>76,0</b>	<b>21,1</b>
Textiles	0,78	106,1	57,5	71,0	91,7	87,4	14,4
Other textile products	0,40	106,4	61,5	67,9	86,9	86,1	31,7
Knitted, crocheted articles	0,09	74,4	49,4	49,2	64,5	64,6	4,0
Wearing apparel	1,04	90,1	70,4	47,0	69,0	67,5	22,1
Leather and leather products	0,46	64,9	56,4	55,9	62,8	62,6	34,8
Footwear	0,35	122,9	99,6	73,0	73,3	85,5	7,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,45</b>	<b>103,7</b>	<b>77,7</b>	<b>78,3</b>	<b>85,3</b>	<b>89,5</b>	<b>43,1</b>
Sawmilling and planing of wood	1,73	96,8	69,5	85,6	88,1	86,7	30,9
Products of wood	2,57	111,1	72,8	77,4	92,1	95,3	30,9
Paper and paper products	4,14	98,7	85,9	82,5	86,9	95,1	71,6
Publishing	1,43	90,2	68,1	61,0	65,3	63,8	28,2
Printing, recorded media	1,58	124,7	81,9	76,2	84,8	91,8	15,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,07</b>	<b>110,1</b>	<b>91,7</b>	<b>95,3</b>	<b>89,3</b>	<b>93,1</b>	<b>55,8</b>
Coke, petroleum products and nuclear fuel	8,67	110,6	100,6	106,5	82,0	85,3	39,2
Basic chemicals	4,29	103,5	87,4	100,2	86,9	97,4	76,6
Other chemical products	6,19	109,4	92,4	83,4	91,2	96,4	69,1
Rubber products	1,24	102,1	53,5	80,1	117,0	95,0	19,6
Plastic products	2,68	124,6	85,9	86,1	99,4	102,7	61,9
<b>Glass and non-metallic mineral products</b>	<b>3,18</b>	<b>99,6</b>	<b>70,8</b>	<b>72,7</b>	<b>81,0</b>	<b>75,7</b>	<b>14,8</b>
Glass and glass products	0,66	131,1	106,8	107,5	103,8	91,1	42,1
Non-metallic mineral products	2,52	91,3	61,4	63,6	75,0	71,7	7,6
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,69</b>	<b>106,8</b>	<b>81,1</b>	<b>84,5</b>	<b>95,7</b>	<b>102,0</b>	<b>36,0</b>
Basic iron and steel products	3,57	110,0	89,9	111,3	111,4	114,2	22,4
Non-ferrous metal products	2,58	106,4	85,6	90,0	91,6	96,0	77,9
Structural metal products	1,99	101,1	58,5	62,7	88,5	85,8	12,8
Other fabricated metal products	3,79	107,4	65,4	78,3	95,4	95,1	25,4
General purpose machinery	2,58	110,6	89,1	70,9	90,9	97,0	40,3
Special purpose machinery	3,41	102,9	92,8	76,8	90,1	115,4	42,2
Household appliances	0,77	109,5	82,5	107,3	97,7	99,8	28,5
<b>Electrical machinery</b>	<b>1,64</b>	<b>85,4</b>	<b>55,0</b>	<b>60,3</b>	<b>72,8</b>	<b>79,4</b>	<b>23,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,54</b>	<b>107,4</b>	<b>87,9</b>	<b>71,9</b>	<b>83,0</b>	<b>88,5</b>	<b>28,7</b>
Radio, television and communication apparatus	0,90	115,2	93,9	76,0	90,7	87,5	23,3
Professional equipment	0,64	96,6	79,4	66,2	72,2	89,9	36,3
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,56</b>	<b>103,6</b>	<b>50,7</b>	<b>71,2</b>	<b>102,3</b>	<b>97,8</b>	<b>2,0</b>
Motor vehicles	2,82	97,9	31,5	60,4	105,5	84,7	0,0
Bodies for motor vehicles, trailers and semi-trailers	0,47	124,1	63,6	77,7	91,5	97,2	11,4
Parts and accessories	3,04	113,3	54,1	82,7	111,6	113,3	0,6
Other transport equipment	1,23	85,1	81,3	65,0	76,3	89,9	6,5
<b>Furniture and other manufacturing</b>	<b>3,11</b>	<b>115,5</b>	<b>80,7</b>	<b>82,6</b>	<b>106,2</b>	<b>83,3</b>	<b>13,8</b>
Furniture	1,07	107,6	70,5	58,8	77,3	74,4	9,2
Other manufacturing groups	2,04	119,7	86,1	95,1	121,5	87,9	16,3
<b>Total</b>	<b>100</b>	<b>111,4</b>	<b>87,8</b>	<b>86,4</b>	<b>93,0</b>	<b>95,4</b>	<b>48,8</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	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20
<b>Food and beverages</b>	<b>3,5</b>	<b>-1,4</b>	<b>1,3</b>	<b>2,7</b>	<b>-0,1</b>	<b>-19,4</b>
Meat, fish, fruit, etc.	-2,3	-3,7	1,5	2,0	4,4	-9,3
Dairy products	-3,2	7,8	-2,9	1,7	-4,0	-16,2
Grain mill products	-1,7	-2,1	1,2	3,9	4,2	2,3
Other food products	5,5	1,7	9,9	3,7	5,2	4,0
Beverages	10,8	-4,5	-7,1	2,1	-10,6	-73,2
<b>Textiles, clothing, leather and footwear</b>	<b>-14,5</b>	<b>-8,8</b>	<b>-10,2</b>	<b>-9,7</b>	<b>-11,9</b>	<b>-75,5</b>
Textiles	-10,5	-8,0	-8,7	-9,3	-6,8	-84,5
Other textile products	-12,2	-16,1	-2,9	-6,4	-3,6	-66,8
Knitted, crocheted articles	-24,0	-11,8	-30,0	-33,5	-29,0	-95,3
Wearing apparel	-11,8	-3,0	-14,4	-5,6	-17,7	-71,1
Leather and leather products	-28,9	-26,8	-21,5	-16,7	-16,5	-57,5
Footwear	-15,5	3,8	9,3	-10,8	-8,3	-92,3
<b>Wood and wood products, paper, publishing and printing</b>	<b>-8,8</b>	<b>-10,6</b>	<b>-6,5</b>	<b>-6,7</b>	<b>-4,9</b>	<b>-49,2</b>
Sawmilling and planing of wood	-8,8	-6,1	-0,1	-5,3	-17,3	-68,9
Products of wood	-6,3	-2,4	-5,4	-5,1	-1,4	-66,5
Paper and paper products	-13,2	-16,3	-10,5	-8,1	-3,7	-15,6
Publishing	-9,8	-14,1	-4,5	-14,2	-11,3	-55,6
Printing, recorded media	-1,6	-6,0	-4,8	-1,1	6,9	-79,9
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>-2,1</b>	<b>-6,1</b>	<b>-0,8</b>	<b>-1,3</b>	<b>-5,8</b>	<b>-41,5</b>
Coke, petroleum products and nuclear fuel	-0,3	-11,1	-1,8	-6,8	-21,7	-63,9
Basic chemicals	-1,2	0,1	7,3	-1,3	21,8	-3,3
Other chemical products	-4,5	-3,8	-3,2	1,0	2,6	-20,6
Rubber products	-2,9	6,4	-6,6	14,0	-9,0	-77,2
Plastic products	-3,0	-4,6	-2,0	1,5	-2,2	-40,0
<b>Glass and non-metallic mineral products</b>	<b>-11,2</b>	<b>-12,0</b>	<b>1,3</b>	<b>-9,7</b>	<b>-16,7</b>	<b>-83,4</b>
Glass and glass products	0,6	-4,6	12,9	-1,4	-19,9	-59,0
Non-metallic mineral products	-14,9	-15,0	-3,2	-12,4	-15,5	-91,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>-2,7</b>	<b>-4,0</b>	<b>-0,8</b>	<b>-5,1</b>	<b>-8,3</b>	<b>-65,4</b>
Basic iron and steel products	-7,7	-7,4	7,4	-5,5	-6,7	-82,0
Non-ferrous metal products	-2,7	-15,6	-12,8	-7,9	-11,6	-27,7
Structural metal products	0,6	1,6	-3,2	4,2	-0,3	-85,1
Other fabricated metal products	-8,0	-10,5	-4,7	-8,2	-15,2	-76,8
General purpose machinery	8,2	13,4	7,6	-0,3	-3,5	-59,4
Special purpose machinery	-1,6	0,0	-3,8	-6,0	-9,9	-53,4
Household appliances	3,6	7,0	12,8	-6,9	12,6	-67,8
<b>Electrical machinery</b>	<b>-7,4</b>	<b>-5,2</b>	<b>-5,0</b>	<b>-11,3</b>	<b>-17,5</b>	<b>-70,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>-0,7</b>	<b>-11,3</b>	<b>-0,7</b>	<b>-6,2</b>	<b>-10,1</b>	<b>-64,9</b>
Radio, television and communication apparatus	-2,9	-9,5	-3,8	-7,1	-12,2	-73,1
Professional equipment	3,2	-14,3	4,9	-4,6	-7,0	-51,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>-15,5</b>	<b>-27,4</b>	<b>-11,6</b>	<b>-3,1</b>	<b>-8,3</b>	<b>-98,0</b>
Motor vehicles	-17,3	-43,0	-23,7	-5,6	-22,5	-100,0
Bodies for motor vehicles, trailers and semi-trailers	-0,7	-6,5	-2,4	-14,1	-12,9	-90,4
Parts and accessories	-19,2	-31,3	-5,9	-0,8	2,2	-99,5
Other transport equipment	-2,9	-0,6	-0,5	2,6	2,0	-90,3
<b>Furniture and other manufacturing</b>	<b>-10,5</b>	<b>-9,2</b>	<b>-3,8</b>	<b>6,5</b>	<b>-3,3</b>	<b>-83,5</b>
Furniture	-10,5	-3,7	-0,7	-9,5	-5,1	-88,5
Other manufacturing groups	-10,4	-11,3	-4,8	13,3	-2,4	-80,9
<b>Total</b>	<b>-3,5</b>	<b>-6,3</b>	<b>-1,9</b>	<b>-2,1</b>	<b>-5,5</b>	<b>-49,4</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	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20
<b>Food and beverages</b>	<b>26,64</b>	<b>1,0</b>	<b>-0,5</b>	<b>0,4</b>	<b>0,7</b>	<b>0,0</b>	<b>-5,4</b>
Meat, fish, fruit, etc.	6,69	-0,2	-0,3	0,1	0,1	0,3	-0,7
Dairy products	2,15	-0,1	0,2	-0,1	0,0	-0,1	-0,4
Grain mill products	3,37	-0,1	-0,1	0,0	0,1	0,1	0,1
Other food products	8,14	0,5	0,1	0,8	0,3	0,4	0,3
Beverages	6,29	0,8	-0,4	-0,5	0,1	-0,7	-4,8
<b>Textiles, clothing, leather and footwear</b>	<b>3,12</b>	<b>-0,4</b>	<b>-0,2</b>	<b>-0,2</b>	<b>-0,3</b>	<b>-0,3</b>	<b>-2,1</b>
Textiles	0,78	-0,1	0,0	-0,1	-0,1	0,0	-0,6
Other textile products	0,40	-0,1	-0,1	0,0	0,0	0,0	-0,3
Knitted, crocheted articles	0,09	0,0	0,0	0,0	0,0	0,0	-0,1
Wearing apparel	1,04	-0,1	0,0	-0,1	0,0	-0,1	-0,6
Leather and leather products	0,46	-0,1	-0,1	-0,1	-0,1	-0,1	-0,2
Footwear	0,35	-0,1	0,0	0,0	0,0	0,0	-0,3
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,45</b>	<b>-1,0</b>	<b>-1,1</b>	<b>-0,7</b>	<b>-0,7</b>	<b>-0,5</b>	<b>-4,9</b>
Sawmilling and planing of wood	1,73	-0,1	-0,1	0,0	-0,1	-0,3	-1,2
Products of wood	2,57	-0,2	0,0	-0,1	-0,1	0,0	-1,6
Paper and paper products	4,14	-0,5	-0,7	-0,5	-0,3	-0,2	-0,6
Publishing	1,43	-0,1	-0,2	0,0	-0,2	-0,1	-0,5
Printing, recorded media	1,58	0,0	-0,1	-0,1	0,0	0,1	-1,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,07</b>	<b>-0,5</b>	<b>-1,5</b>	<b>-0,2</b>	<b>-0,3</b>	<b>-1,3</b>	<b>-9,5</b>
Coke, petroleum products and nuclear fuel	8,67	0,0	-1,2	-0,2	-0,5	-2,0	-6,2
Basic chemicals	4,29	0,0	0,0	0,3	0,0	0,7	-0,1
Other chemical products	6,19	-0,3	-0,2	-0,2	0,1	0,1	-1,1
Rubber products	1,24	0,0	0,0	-0,1	0,2	-0,1	-0,9
Plastic products	2,68	-0,1	-0,1	-0,1	0,0	-0,1	-1,1
<b>Glass and non-metallic mineral products</b>	<b>3,18</b>	<b>-0,3</b>	<b>-0,3</b>	<b>0,0</b>	<b>-0,3</b>	<b>-0,5</b>	<b>-2,5</b>
Glass and glass products	0,66	0,0	0,0	0,1	0,0	-0,1	-0,4
Non-metallic mineral products	2,52	-0,3	-0,3	-0,1	-0,3	-0,3	-2,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,69</b>	<b>-0,5</b>	<b>-0,7</b>	<b>-0,1</b>	<b>-1,0</b>	<b>-1,7</b>	<b>-13,2</b>
Basic iron and steel products	3,57	-0,3	-0,3	0,3	-0,2	-0,3	-3,8
Non-ferrous metal products	2,58	-0,1	-0,4	-0,4	-0,2	-0,3	-0,8
Structural metal products	1,99	0,0	0,0	0,0	0,1	0,0	-1,5
Other fabricated metal products	3,79	-0,3	-0,3	-0,2	-0,3	-0,6	-3,3
General purpose machinery	2,58	0,2	0,3	0,1	0,0	-0,1	-1,6
Special purpose machinery	3,41	-0,1	0,0	-0,1	-0,2	-0,4	-1,7
Household appliances	0,77	0,0	0,0	0,1	-0,1	0,1	-0,5
<b>Electrical machinery</b>	<b>1,64</b>	<b>-0,1</b>	<b>-0,1</b>	<b>-0,1</b>	<b>-0,2</b>	<b>-0,3</b>	<b>-0,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,54</b>	<b>0,0</b>	<b>-0,2</b>	<b>0,0</b>	<b>-0,1</b>	<b>-0,2</b>	<b>-0,8</b>
Radio, television and communication apparatus	0,90	0,0	-0,1	0,0	-0,1	-0,1	-0,6
Professional equipment	0,64	0,0	-0,1	0,0	0,0	0,0	-0,3
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,56</b>	<b>-1,2</b>	<b>-1,5</b>	<b>-0,8</b>	<b>-0,3</b>	<b>-0,7</b>	<b>-7,8</b>
Motor vehicles	2,82	-0,5	-0,7	-0,6	-0,2	-0,7	-3,0
Bodies for motor vehicles, trailers and semi-trailers	0,47	0,0	0,0	0,0	-0,1	-0,1	-0,5
Parts and accessories	3,04	-0,7	-0,8	-0,2	0,0	0,1	-3,5
Other transport equipment	1,23	0,0	0,0	0,0	0,0	0,0	-0,8
<b>Furniture and other manufacturing</b>	<b>3,11</b>	<b>-0,4</b>	<b>-0,3</b>	<b>-0,1</b>	<b>0,2</b>	<b>-0,1</b>	<b>-2,2</b>
Furniture	1,07	-0,1	0,0	0,0	-0,1	0,0	-0,8
Other manufacturing groups	2,04	-0,2	-0,2	-0,1	0,3	0,0	-1,5
<b>Total</b>	<b>100</b>	<b>-3,5</b>	<b>-6,3</b>	<b>-1,9</b>	<b>-2,1</b>	<b>-5,5</b>	<b>-49,4</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	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Month-on-month % change
<b>Food and beverages</b>	<b>26,64</b>	<b>106,1</b>	<b>109,8</b>	<b>108,4</b>	<b>108,3</b>	<b>84,5</b>	<b>-22,0</b>
Meat, fish, fruit, etc.	6,69	99,6	105,5	106,2	106,4	95,9	-9,9
Dairy products	2,15	111,9	107,8	105,4	108,0	99,3	-8,1
Grain mill products	3,37	94,6	98,9	99,7	98,3	101,7	3,5
Other food products	8,14	114,6	122,2	117,2	118,5	106,7	-10,0
Beverages	6,29	106,3	104,8	104,9	102,7	29,4	-71,4
<b>Textiles, clothing, leather and footwear</b>	<b>3,12</b>	<b>81,7</b>	<b>81,2</b>	<b>79,7</b>	<b>75,7</b>	<b>23,8</b>	<b>-68,6</b>
Textiles	0,78	89,4	89,8	89,3	82,0	14,9	-81,8
Other textile products	0,40	81,7	87,7	88,7	85,9	34,1	-60,3
Knitted, crocheted articles	0,09	73,4	63,7	60,8	60,9	3,9	-93,6
Wearing apparel	1,04	78,2	76,5	75,0	68,0	30,0	-55,9
Leather and leather products	0,46	60,6	63,0	64,6	63,6	31,6	-50,3
Footwear	0,35	105,1	97,4	87,2	92,6	8,0	-91,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>11,45</b>	<b>87,2</b>	<b>90,7</b>	<b>89,5</b>	<b>88,7</b>	<b>49,9</b>	<b>-43,7</b>
Sawmilling and planing of wood	1,73	91,8	97,3	88,8	80,1	34,5	-56,9
Products of wood	2,57	95,6	95,4	96,4	95,8	33,0	-65,6
Paper and paper products	4,14	85,6	90,1	91,4	93,0	84,0	-9,7
Publishing	1,43	69,6	73,8	70,5	69,1	34,2	-50,5
Printing, recorded media	1,58	88,9	92,4	91,2	93,4	19,1	-79,6
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>23,07</b>	<b>97,6</b>	<b>101,4</b>	<b>92,4</b>	<b>94,0</b>	<b>61,4</b>	<b>-34,7</b>
Coke, petroleum products and nuclear fuel	8,67	100,6	106,5	82,0	85,3	39,2	-54,0
Basic chemicals	4,29	93,8	102,6	96,6	103,5	87,7	-15,3
Other chemical products	6,19	95,1	94,5	97,5	95,9	77,5	-19,2
Rubber products	1,24	94,3	93,3	107,0	89,7	29,1	-67,6
Plastic products	2,68	101,4	102,4	100,9	104,1	68,8	-33,9
<b>Glass and non-metallic mineral products</b>	<b>3,18</b>	<b>91,7</b>	<b>93,9</b>	<b>86,8</b>	<b>78,3</b>	<b>18,4</b>	<b>-76,5</b>
Glass and glass products	0,66	110,9	118,2	112,7	100,1	46,8	-53,2
Non-metallic mineral products	2,52	86,7	87,6	80,0	72,6	11,0	-84,8
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>18,69</b>	<b>97,2</b>	<b>98,7</b>	<b>97,2</b>	<b>94,9</b>	<b>38,2</b>	<b>-59,7</b>
Basic iron and steel products	3,57	106,4	109,4	110,7	106,9	18,8	-82,4
Non-ferrous metal products	2,58	94,1	94,4	92,9	93,4	76,6	-18,0
Structural metal products	1,99	83,0	83,6	87,5	85,4	14,2	-83,4
Other fabricated metal products	3,79	91,3	96,9	96,3	91,4	26,8	-70,7
General purpose machinery	2,58	101,0	95,4	94,9	94,2	42,3	-55,1
Special purpose machinery	3,41	100,8	100,6	94,9	93,8	54,7	-41,7
Household appliances	0,77	101,3	113,1	97,1	93,3	30,3	-67,5
<b>Electrical machinery</b>	<b>1,64</b>	<b>73,8</b>	<b>76,5</b>	<b>74,0</b>	<b>70,0</b>	<b>27,8</b>	<b>-60,3</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,54</b>	<b>87,5</b>	<b>91,8</b>	<b>86,6</b>	<b>85,4</b>	<b>33,2</b>	<b>-61,1</b>
Radio, television and communication apparatus	0,90	91,8	97,2	93,9	89,8	26,9	-70,0
Professional equipment	0,64	81,6	84,3	76,5	79,3	41,9	-47,2
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>7,56</b>	<b>89,4</b>	<b>91,5</b>	<b>98,2</b>	<b>93,1</b>	<b>8,5</b>	<b>-90,9</b>
Motor vehicles	2,82	83,2	88,6	98,4	82,9	11,6	-86,0
Bodies for motor vehicles, trailers and semi-trailers	0,47	100,8	101,5	96,3	95,4	12,5	-86,9
Parts and accessories	3,04	96,8	96,2	105,6	108,0	5,3	-95,1
Other transport equipment	1,23	81,2	82,8	80,5	78,9	8,0	-89,9
<b>Furniture and other manufacturing</b>	<b>3,11</b>	<b>95,5</b>	<b>98,3</b>	<b>99,8</b>	<b>94,9</b>	<b>28,5</b>	<b>-70,0</b>
Furniture	1,07	83,1	89,4	80,5	82,0	10,1	-87,7
Other manufacturing groups	2,04	102,0	103,0	110,0	101,7	38,2	-62,4
<b>Total</b>	<b>100</b>	<b>96,7</b>	<b>99,6</b>	<b>96,9</b>	<b>95,7</b>	<b>53,3</b>	<b>-44,3</b>

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

Month	2014	2015	2016	2017	2018	2019	2020 <sup>1</sup>
Jan	134 022	133 473	137 588	147 728	154 687	169 331	168 088
Feb	151 015	148 453	160 923	163 040	173 909	184 231	189 037
Mar	156 523	167 441	169 906	182 917	185 238	201 129	190 796
Apr	148 251	147 271	160 631	158 360	165 218	189 590	93 406
May	153 108	158 343	173 256	179 649	191 930	199 608	
Jun	161 108	163 277	177 291	183 043	191 836	199 200	
Jul	150 687	163 881	170 938	174 766	193 760	202 907	
Aug	161 424	161 763	177 283	186 082	201 305	211 321	
Sep	168 001	172 491	184 513	188 393	204 075	204 710	
Oct	181 283	178 929	183 891	197 103	220 644	222 511	
Nov	176 286	179 830	195 991	213 656	225 502	220 858	
Dec	152 737	155 988	163 327	173 384	182 375	176 429	
<b>Total</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>	<b>2 381 825</b>	

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

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

Month	2015	2016	2017	2018	2019	2020	2020 year-to-date
Jan	-0,4	3,1	7,4	4,7	9,5	-0,7	-0,7
Feb	-1,7	8,4	1,3	6,7	5,9	2,6	1,0
Mar	7,0	1,5	7,7	1,3	8,6	-5,1	-1,2
Apr	-0,7	9,1	-1,4	4,3	14,8	-50,7	-13,8
May	3,4	9,4	3,7	6,8	4,0		
Jun	1,3	8,6	3,2	4,8	3,8		
Jul	8,8	4,3	2,2	10,9	4,7		
Aug	0,2	9,6	5,0	8,2	5,0		
Sep	2,7	7,0	2,1	8,3	0,3		
Oct	-1,3	2,8	7,2	11,9	0,8		
Nov	2,0	9,0	9,0	5,5	-2,1		
Dec	2,1	4,7	6,2	5,2	-3,3		
<b>Total</b>	<b>1,9</b>	<b>6,4</b>	<b>4,5</b>	<b>6,6</b>	<b>4,0</b>		

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

Month	R million				Month-on-month % change			
	2017	2018	2019	2020	2017	2018	2019	2020
Jan	175 238	182 189	198 288	196 209	1,1	-2,7	0,2	4,5
Feb	172 899	184 321	194 755	200 400	-1,3	1,2	-1,8	2,1
Mar	176 551	186 267	200 297	189 561	2,1	1,1	2,8	-5,4
Apr	176 489	177 384	204 951	102 336	0,0	-4,8	2,3	-46,0
May	177 938	189 821	197 215		0,8	7,0	-3,8	
Jun	178 020	188 612	200 077		0,0	-0,6	1,5	
Jul	177 408	193 449	200 311		-0,3	2,6	0,1	
Aug	179 141	192 657	203 717		1,0	-0,4	1,7	
Sep	178 952	198 594	197 359		-0,1	3,1	-3,1	
Oct	178 706	198 526	199 782		-0,1	0,0	1,2	
Nov	189 175	197 845	195 312		5,9	-0,3	-2,2	
Dec	187 180	197 856	187 755		-1,1	0,0	-3,9	

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

Manufacturing division and major group	Nov-19	Dec-19	Jan-20	<sup>1</sup> Feb-20	<sup>1</sup> Mar-20	<sup>1</sup> Apr-20
<b>Food and beverages</b>	<b>53 895</b>	<b>53 733</b>	<b>41 882</b>	<b>45 473</b>	<b>47 160</b>	<b>35 473</b>
Meat, fish, fruit, etc.	14 637	14 247	11 434	12 020	13 707	11 469
Dairy products	4 461	4 436	4 111	3 924	4 371	3 700
Grain mill products	7 431	6 888	6 474	6 605	7 464	6 812
Other food products	10 528	9 403	9 006	10 172	9 761	10 126
Beverages	16 838	18 759	10 857	12 752	11 857	3 366
<b>Textiles, clothing, leather and footwear</b>	<b>5 995</b>	<b>4 013</b>	<b>3 545</b>	<b>4 497</b>	<b>4 716</b>	<b>1 604</b>
Textiles	750	412	517	660	613	135
Other textile products	1 823	1 052	1 131	1 485	1 497	583
Knitted, crocheted articles	213	129	135	187	183	10
Wearing apparel	1 963	1 406	957	1 297	1 508	558
Leather and leather products	513	425	433	470	483	269
Footwear	734	588	372	398	432	49
<b>Wood and wood products, paper, publishing and printing</b>	<b>15 732</b>	<b>12 089</b>	<b>11 292</b>	<b>12 779</b>	<b>13 472</b>	<b>6 948</b>
Sawmilling and planing of wood	919	557	814	836	776	334
Products of wood	2 254	1 436	1 514	1 774	1 804	669
Paper and paper products	7 096	6 370	5 599	6 327	6 930	4 977
Publishing	1 707	1 245	1 113	1 261	1 191	542
Printing, recorded media	3 755	2 482	2 253	2 580	2 770	427
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>45 653</b>	<b>38 061</b>	<b>38 170</b>	<b>36 571</b>	<b>36 533</b>	<b>22 321</b>
Coke, petroleum products and nuclear fuel	13 457	13 492	14 062	10 529	8 320	3 597
Basic chemicals	10 030	7 384	7 839	7 721	8 649	6 079
Other chemical products	13 548	11 365	10 296	11 223	12 393	9 019
Rubber products	1 675	1 112	1 228	1 643	1 437	289
Plastic products	6 942	4 708	4 745	5 455	5 733	3 337
<b>Glass and non-metallic mineral products</b>	<b>6 396</b>	<b>4 207</b>	<b>4 277</b>	<b>4 970</b>	<b>4 919</b>	<b>573</b>
Glass and glass products	1 322	984	973	965	859	256
Non-metallic mineral products	5 074	3 224	3 304	4 005	4 059	317
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>48 036</b>	<b>34 692</b>	<b>35 750</b>	<b>43 319</b>	<b>44 595</b>	<b>18 047</b>
Basic iron and steel products	10 586	7 216	8 146	9 263	9 486	3 420
Non-ferrous metal products	15 705	11 126	12 191	14 896	14 469	8 426
Structural metal products	3 763	2 290	2 216	3 234	3 092	609
Other fabricated metal products	6 822	4 285	4 864	5 861	6 100	1 632
General purpose machinery	4 324	3 512	2 956	3 724	4 113	1 616
Special purpose machinery	5 449	5 216	4 138	5 136	5 987	2 003
Household appliances	1 386	1 047	1 239	1 205	1 348	340
<b>Electrical machinery</b>	<b>4 903</b>	<b>3 525</b>	<b>3 505</b>	<b>4 471</b>	<b>4 543</b>	<b>1 724</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 523</b>	<b>2 179</b>	<b>1 551</b>	<b>1 944</b>	<b>2 119</b>	<b>711</b>
Radio, television and communication apparatus	1 388	1 164	757	1 018	1 051	257
Professional equipment	1 136	1 016	795	926	1 069	453
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>29 530</b>	<b>17 116</b>	<b>22 401</b>	<b>27 464</b>	<b>25 573</b>	<b>4 594</b>
Motor vehicles	18 203	10 197	13 511	15 937	14 223	3 432
Bodies for motor vehicles, trailers and semi-trailers	1 497	800	816	1 048	1 117	99
Parts and accessories	7 025	3 435	5 923	7 946	7 245	849
Other transport equipment	2 805	2 685	2 151	2 534	2 987	214
<b>Furniture and other manufacturing</b>	<b>8 195</b>	<b>6 813</b>	<b>5 715</b>	<b>7 549</b>	<b>7 166</b>	<b>1 411</b>
Furniture	1 784	1 220	894	1 271	1 205	140
Other manufacturing groups	6 411	5 593	4 821	6 278	5 961	1 271
<b>Total</b>	<b>220 858</b>	<b>176 429</b>	<b>168 088</b>	<b>189 037</b>	<b>190 796</b>	<b>93 406</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	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20
<b>Food and beverages</b>	<b>4,1</b>	<b>4,4</b>	<b>-2,4</b>	<b>10,5</b>	<b>3,4</b>	<b>-21,2</b>
Meat, fish, fruit, etc.	0,1	1,9	5,1	4,0	7,1	-8,0
Dairy products	5,6	7,0	1,7	4,8	0,4	-11,7
Grain mill products	7,6	11,3	7,7	15,7	13,2	7,2
Other food products	4,9	5,9	-12,1	27,2	15,5	3,2
Beverages	5,4	2,7	-7,4	4,9	-11,7	-72,3
<b>Textiles, clothing, leather and footwear</b>	<b>-8,1</b>	<b>-8,7</b>	<b>-6,4</b>	<b>-4,2</b>	<b>-8,2</b>	<b>-67,2</b>
Textiles	-11,8	-11,0	-7,2	-3,2	-10,5	-78,7
Other textile products	-8,9	-13,1	-1,8	-1,3	-3,9	-61,6
Knitted, crocheted articles	-16,1	-15,1	-26,6	-20,8	-25,9	-95,9
Wearing apparel	-0,4	0,4	-5,3	-3,2	-4,1	-62,9
Leather and leather products	-24,4	-22,0	-12,9	-4,5	-14,8	-48,3
Footwear	-4,4	-5,6	-4,1	-10,0	-15,5	-89,7
<b>Wood and wood products, paper, publishing and printing</b>	<b>-3,4</b>	<b>-6,7</b>	<b>-5,2</b>	<b>-1,4</b>	<b>-2,0</b>	<b>-41,5</b>
Sawmilling and planing of wood	-5,4	-7,0	-2,2	4,2	-16,8	-66,1
Products of wood	3,3	4,8	3,6	-3,4	-5,5	-62,8
Paper and paper products	-7,9	-9,4	-9,6	-1,5	-1,6	-13,1
Publishing	-3,7	-10,8	-2,7	-7,5	-6,6	-53,5
Printing, recorded media	3,0	-2,9	-1,2	1,9	7,1	-80,6
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>-1,1</b>	<b>-3,1</b>	<b>4,5</b>	<b>1,9</b>	<b>-7,2</b>	<b>-43,0</b>
Coke, petroleum products and nuclear fuel	-5,9	-4,3	9,4	3,0	-33,0	-73,7
Basic chemicals	1,6	-6,1	1,6	-1,8	6,5	-22,3
Other chemical products	1,9	0,5	2,6	4,1	7,1	-14,7
Rubber products	0,7	6,4	11,8	13,5	-6,4	-78,7
Plastic products	-1,3	-5,3	-2,0	-2,1	0,1	-42,1
<b>Glass and non-metallic mineral products</b>	<b>-4,2</b>	<b>-6,0</b>	<b>1,4</b>	<b>-2,5</b>	<b>-8,7</b>	<b>-89,0</b>
Glass and glass products	-3,9	0,6	6,6	2,1	-14,2	-73,3
Non-metallic mineral products	-4,2	-7,9	0,0	-3,6	-7,5	-92,6
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>-0,9</b>	<b>-10,0</b>	<b>-3,8</b>	<b>2,7</b>	<b>-9,2</b>	<b>-58,8</b>
Basic iron and steel products	-15,2	-21,7	-17,3	-11,2	-24,5	-67,6
Non-ferrous metal products	6,9	-20,4	-3,7	19,2	-4,0	-39,9
Structural metal products	4,5	11,2	1,2	8,0	-3,3	-80,3
Other fabricated metal products	-6,2	-7,7	-2,5	-6,9	-9,4	-75,4
General purpose machinery	12,1	17,2	16,6	5,3	1,2	-57,4
Special purpose machinery	2,8	9,7	4,4	-2,8	-4,0	-56,6
Household appliances	8,1	15,4	28,3	7,6	6,7	-69,1
<b>Electrical machinery</b>	<b>-6,1</b>	<b>0,1</b>	<b>-1,8</b>	<b>-6,7</b>	<b>-16,9</b>	<b>-60,7</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>3,1</b>	<b>-12,5</b>	<b>4,0</b>	<b>-8,1</b>	<b>-3,8</b>	<b>-61,7</b>
Radio, television and communication apparatus	1,9	-13,5	0,7	-15,7	-7,0	-71,4
Professional equipment	4,9	-11,2	7,6	1,9	-0,3	-52,6
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>-11,4</b>	<b>-5,4</b>	<b>0,9</b>	<b>-3,1</b>	<b>-9,6</b>	<b>-82,7</b>
Motor vehicles	-9,2	2,9	2,8	-3,5	-7,3	-78,4
Bodies for motor vehicles, trailers and semi-trailers	8,8	3,1	-12,3	-9,3	-13,2	-92,5
Parts and accessories	-22,7	-28,5	-2,2	-4,4	-18,0	-88,1
Other transport equipment	-0,6	2,9	4,0	7,3	5,5	-90,2
<b>Furniture and other manufacturing</b>	<b>-4,7</b>	<b>-4,5</b>	<b>2,9</b>	<b>7,9</b>	<b>5,6</b>	<b>-79,5</b>
Furniture	-4,7	-3,3	0,2	-4,4	-5,2	-89,0
Other manufacturing groups	-4,8	-4,7	3,4	10,8	8,1	-77,3
<b>Total</b>	<b>-2,1</b>	<b>-3,3</b>	<b>-0,7</b>	<b>2,6</b>	<b>-5,1</b>	<b>-50,7</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	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20
<b>Food and beverages</b>	<b>0,9</b>	<b>1,2</b>	<b>-0,6</b>	<b>2,3</b>	<b>0,8</b>	<b>-5,0</b>
Meat, fish, fruit, etc.	0,0	0,1	0,3	0,3	0,5	-0,5
Dairy products	0,1	0,2	0,0	0,1	0,0	-0,3
Grain mill products	0,2	0,4	0,3	0,5	0,4	0,2
Other food products	0,2	0,3	-0,7	1,2	0,7	0,2
Beverages	0,4	0,3	-0,5	0,3	-0,8	-4,6
<b>Textiles, clothing, leather and footwear</b>	<b>-0,2</b>	<b>-0,2</b>	<b>-0,1</b>	<b>-0,1</b>	<b>-0,2</b>	<b>-1,7</b>
Textiles	0,0	0,0	0,0	0,0	0,0	-0,3
Other textile products	-0,1	-0,1	0,0	0,0	0,0	-0,5
Knitted, crocheted articles	0,0	0,0	0,0	0,0	0,0	-0,1
Wearing apparel	0,0	0,0	0,0	0,0	0,0	-0,5
Leather and leather products	-0,1	-0,1	0,0	0,0	0,0	-0,1
Footwear	0,0	0,0	0,0	0,0	0,0	-0,2
<b>Wood and wood products, paper, publishing and printing</b>	<b>-0,2</b>	<b>-0,5</b>	<b>-0,4</b>	<b>-0,1</b>	<b>-0,1</b>	<b>-2,6</b>
Sawmilling and planing of wood	0,0	0,0	0,0	0,0	-0,1	-0,3
Products of wood	0,0	0,0	0,0	0,0	-0,1	-0,6
Paper and paper products	-0,3	-0,4	-0,4	-0,1	-0,1	-0,4
Publishing	0,0	-0,1	0,0	-0,1	0,0	-0,3
Printing, recorded media	0,0	0,0	0,0	0,0	0,1	-0,9
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>-0,2</b>	<b>-0,7</b>	<b>1,0</b>	<b>0,4</b>	<b>-1,4</b>	<b>-8,9</b>
Coke, petroleum products and nuclear fuel	-0,4	-0,3	0,7	0,2	-2,0	-5,3
Basic chemicals	0,1	-0,3	0,1	-0,1	0,3	-0,9
Other chemical products	0,1	0,0	0,2	0,2	0,4	-0,8
Rubber products	0,0	0,0	0,1	0,1	0,0	-0,6
Plastic products	0,0	-0,1	-0,1	-0,1	0,0	-1,3
<b>Glass and non-metallic mineral products</b>	<b>-0,1</b>	<b>-0,1</b>	<b>0,0</b>	<b>-0,1</b>	<b>-0,2</b>	<b>-2,5</b>
Glass and glass products	0,0	0,0	0,0	0,0	-0,1	-0,4
Non-metallic mineral products	-0,1	-0,2	0,0	-0,1	-0,2	-2,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>-0,2</b>	<b>-2,1</b>	<b>-0,8</b>	<b>0,6</b>	<b>-2,2</b>	<b>-13,6</b>
Basic iron and steel products	-0,8	-1,1	-1,0	-0,6	-1,5	-3,8
Non-ferrous metal products	0,4	-1,6	-0,3	1,3	-0,3	-2,9
Structural metal products	0,1	0,1	0,0	0,1	-0,1	-1,3
Other fabricated metal products	-0,2	-0,2	-0,1	-0,2	-0,3	-2,6
General purpose machinery	0,2	0,3	0,2	0,1	0,0	-1,1
Special purpose machinery	0,1	0,3	0,1	-0,1	-0,1	-1,4
Household appliances	0,0	0,1	0,2	0,0	0,0	-0,4
<b>Electrical machinery</b>	<b>-0,1</b>	<b>0,0</b>	<b>0,0</b>	<b>-0,2</b>	<b>-0,5</b>	<b>-1,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>0,0</b>	<b>-0,2</b>	<b>0,0</b>	<b>-0,1</b>	<b>0,0</b>	<b>-0,6</b>
Radio, television and communication apparatus	0,0	-0,1	0,0	-0,1	0,0	-0,3
Professional equipment	0,0	-0,1	0,0	0,0	0,0	-0,3
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>-1,7</b>	<b>-0,5</b>	<b>0,1</b>	<b>-0,5</b>	<b>-1,4</b>	<b>-11,6</b>
Motor vehicles	-0,8	0,2	0,2	-0,3	-0,6	-6,6
Bodies for motor vehicles, trailers and semi-trailers	0,1	0,0	-0,1	-0,1	-0,1	-0,6
Parts and accessories	-0,9	-0,8	-0,1	-0,2	-0,8	-3,3
Other transport equipment	0,0	0,0	0,0	0,1	0,1	-1,0
<b>Furniture and other manufacturing</b>	<b>-0,2</b>	<b>-0,2</b>	<b>0,1</b>	<b>0,3</b>	<b>0,2</b>	<b>-2,9</b>
Furniture	0,0	0,0	0,0	0,0	0,0	-0,6
Other manufacturing groups	-0,1	-0,2	0,1	0,3	0,2	-2,3
<b>Total</b>	<b>-2,1</b>	<b>-3,3</b>	<b>-0,7</b>	<b>2,6</b>	<b>-5,1</b>	<b>-50,7</b>



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

Manufacturing division and major group	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Month-on-month % change
<b>Food and beverages</b>	<b>46 968</b>	<b>47 699</b>	<b>50 201</b>	<b>47 775</b>	<b>36 538</b>	<b>-23,5</b>
Meat, fish, fruit, etc.	12 889	13 396	13 440	13 541	12 081	-10,8
Dairy products	4 188	4 227	4 149	4 209	3 819	-9,3
Grain mill products	6 849	7 007	7 452	7 163	7 258	1,3
Other food products	9 725	10 137	11 300	10 705	9 762	-8,8
Beverages	13 318	12 932	13 860	12 156	3 618	-70,2
<b>Textiles, clothing, leather and footwear</b>	<b>4 703</b>	<b>4 790</b>	<b>4 749</b>	<b>4 719</b>	<b>1 694</b>	<b>-64,1</b>
Textiles	624	659	636	588	150	-74,5
Other textile products	1 387	1 478	1 541	1 535	608	-60,4
Knitted, crocheted articles	187	184	188	173	9	-94,8
Wearing apparel	1 528	1 505	1 422	1 486	589	-60,4
Leather and leather products	464	473	480	470	281	-40,2
Footwear	513	492	483	467	58	-87,6
<b>Wood and wood products, paper, publishing and printing</b>	<b>12 868</b>	<b>13 326</b>	<b>13 528</b>	<b>13 270</b>	<b>8 299</b>	<b>-37,5</b>
Sawmilling and planing of wood	744	889	879	732	412	-43,7
Products of wood	1 875	1 905	1 885	1 818	726	-60,1
Paper and paper products	6 377	6 348	6 633	6 653	5 928	-10,9
Publishing	1 284	1 364	1 340	1 318	659	-50,0
Printing, recorded media	2 588	2 819	2 791	2 749	575	-79,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>39 361</b>	<b>41 332</b>	<b>40 666</b>	<b>37 378</b>	<b>24 576</b>	<b>-34,3</b>
Coke, petroleum products and nuclear fuel	12 460	13 698	12 450	9 216	3 969	-56,9
Basic chemicals	8 166	8 533	8 694	8 829	6 564	-25,7
Other chemical products	11 804	11 885	12 160	12 097	10 058	-16,9
Rubber products	1 472	1 515	1 596	1 335	322	-75,9
Plastic products	5 459	5 701	5 765	5 901	3 664	-37,9
<b>Glass and non-metallic mineral products</b>	<b>5 466</b>	<b>5 647</b>	<b>5 378</b>	<b>4 863</b>	<b>698</b>	<b>-85,6</b>
Glass and glass products	1 025	1 134	1 118	955	304	-68,2
Non-metallic mineral products	4 441	4 513	4 260	3 908	393	-89,9
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>40 166</b>	<b>42 036</b>	<b>43 574</b>	<b>42 271</b>	<b>19 842</b>	<b>-53,1</b>
Basic iron and steel products	9 207	8 750	9 410	8 792	3 548	-59,6
Non-ferrous metal products	11 343	13 182	14 530	14 528	9 350	-35,6
Structural metal products	3 135	3 085	3 142	3 048	681	-77,7
Other fabricated metal products	5 826	6 134	6 077	5 886	1 753	-70,2
General purpose machinery	3 898	3 963	3 871	3 873	1 876	-51,6
Special purpose machinery	5 501	5 528	5 311	4 915	2 267	-53,9
Household appliances	1 256	1 392	1 232	1 228	367	-70,1
<b>Electrical machinery</b>	<b>4 470</b>	<b>4 502</b>	<b>4 408</b>	<b>4 061</b>	<b>1 932</b>	<b>-52,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 082</b>	<b>2 086</b>	<b>2 027</b>	<b>2 026</b>	<b>784</b>	<b>-61,3</b>
Radio, television and communication apparatus	1 084	1 062	1 059	1 048	310	-70,4
Professional equipment	999	1 025	968	978	474	-51,5
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>24 555</b>	<b>27 351</b>	<b>28 127</b>	<b>25 669</b>	<b>6 497</b>	<b>-74,7</b>
Motor vehicles	15 354	16 407	16 560	15 393	5 212	-66,1
Bodies for motor vehicles, trailers and semi-trailers	1 176	1 131	1 125	1 077	103	-90,4
Parts and accessories	5 382	7 073	7 730	6 634	931	-86,0
Other transport equipment	2 643	2 740	2 712	2 565	252	-90,2
<b>Furniture and other manufacturing</b>	<b>7 116</b>	<b>7 439</b>	<b>7 743</b>	<b>7 529</b>	<b>1 475</b>	<b>-80,4</b>
Furniture	1 355	1 381	1 356	1 329	156	-88,3
Other manufacturing groups	5 761	6 058	6 387	6 200	1 320	-78,7
<b>Total</b>	<b>187 755</b>	<b>196 209</b>	<b>200 400</b>	<b>189 561</b>	<b>102 336</b>	<b>-46,0</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 April 2020 was 75,2%. The improved collection rate for March 2020 was 75,0%.
- Statistical unit**
- 10 The statistical unit for which information is compiled and published is an enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.
- Revised figures**
- 11 Revised figures are mainly due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures, as indicated in the relevant tables, are subject to change and when revised will not be indicated as such.

- Related publications** 12 Users may also wish to refer to *Stats in Brief* available from Stats SA.
- Rounding-off of figures** 13 Where necessary, the figures in the tables have been rounded off to the nearest digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.
- Historical data** 14 Historical manufacturing data are available on the Stats SA webpage. Click on the following link ([Time series data](#)) to access the data electronically.
- Past publications** 15 Past manufacturing releases are available on the Stats SA webpage. Click on the following link ([Past publications](#)) to access the releases electronically.

## Technical notes

- Survey methodology and design** 1 The survey is conducted monthly. Questionnaires are sent to a sample of 3 081 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)

Enterprise size	Size group	Lower limits	Upper limits
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 2020	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 – 2020 (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](#)
- Note:** Owing to the impact of the COVID-19 lockdown, additive outlier adjustments were performed; the methodology will be reviewed as more data points are added to the time series.
- 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

<b>Enterprise</b>	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.	
<b>Industry</b>	An industry is made up of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the <i>System of National Accounts (SNA)</i> in the same way as in the <i>Standard Industrial Classification of all Economic Activities (SIC)</i> , Fifth Edition, Report No. 09-90-02 of January 1993.	
<b>Sales</b>	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.	
<b>Symbols and abbreviations</b>	BSF	Business sampling frame
	GDP	Gross domestic product
	IMF	International Monetary Fund
	ISIC	International Standard Industrial Classification
	LSS	Large sample survey
	NA	National accounts
	PPI	Producer price index
	Rm	R million
	SIC	Standard Industrial Classification of all Economic Activities
	SARS	South African Revenue Service
	SDDS	Special Data Dissemination Standard
	Stats SA	Statistics South Africa
	VAT	Value added tax
	*	Revised figures

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