



**stats sa**

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

## **STATISTICAL RELEASE**

### **P3041.2**

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

**September 2023**

This is the first publication with weights based on national accounts value added data for 2018–2020. Previously, the manufacturing divisions and total manufacturing were calculated based on national accounts value added data for 2017–2019.

**Embargoed until:  
9 November 2023  
13:00**

**ENQUIRIES:**  
Nicolai Claassen  
Tel: 072 310 5351

**FORTHCOMING ISSUE:**  
October 2023

**EXPECTED RELEASE DATE:**  
12 December 2023



## Contents

<b>Production: results for September 2023</b> .....	<b>2</b>
Table A – Key growth rates in the volume of manufacturing production .....	2
Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2019=100) .....	3
Figure 1 – Volume of manufacturing production (Base: 2019=100) .....	4
Figure 2 – Volume of manufacturing production (Base: 2019=100): year-on-year percentage change .....	4
<b>Sales: results for September 2023</b> .....	<b>5</b>
Table C – Key growth rates in manufacturing sales at current prices .....	5
Table D – Seasonally adjusted manufacturing sales at current prices for the latest three months by division .....	5
<b>Note – Reweighting of manufacturing production</b> .....	<b>6</b>
Table E – Comparison of manufacturing production indices based on previous and new weights .....	6
Table F – Annual percentage change in manufacturing production indices based on previous and new weights .....	7
Figure 3 – Comparison of the total manufacturing production growth rate based on previous and new weights: year-on-year percentage change .....	7
<b>Tables</b> .....	<b>8</b>
Table 1 – Index of the volume of manufacturing production (Base: 2019=100) .....	8
Table 2 – Year-on-year percentage change in the volume of manufacturing production .....	8
Table 3 – Seasonally adjusted volume of manufacturing production .....	8
Table 4 – Index of the volume of manufacturing production by division and major group (Base: 2019=100) .....	9
Table 5 – Year-on-year percentage change in the volume of manufacturing production by division and major group (Base: 2019=100) .....	10
Table 6 – Contribution of each division and major group to the year-on-year percentage change in the volume of manufacturing production (percentage points) .....	11
Table 7 – Seasonally adjusted index of the volume of manufacturing production by division and major group (Base: 2019=100) .....	12
Table 8 – Manufacturing sales at current prices (R million) .....	13
Table 9 – Year-on-year percentage change in manufacturing sales at current prices .....	13
Table 10 – Seasonally adjusted manufacturing sales at current prices .....	13
Table 11 – Manufacturing sales at current prices by division and major group (R million) .....	14
Table 12 – Year-on-year percentage change in manufacturing sales at current prices by division and major group .....	15
Table 13 – Contribution of each division and major group to the year-on-year percentage change in manufacturing sales at current prices (percentage points) .....	16
Table 14 – Seasonally adjusted manufacturing sales at current prices by division and major group (R million) .....	17
<b>Survey information</b> .....	<b>18</b>
<b>Technical notes</b> .....	<b>19</b>
Table G – Weights by division and major group .....	21
<b>Glossary</b> .....	<b>23</b>
<b>Technical enquiries</b> .....	<b>23</b>
<b>General information</b> .....	<b>24</b>

## Production: results for September 2023

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

	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
Year-on-year % change, unadjusted	3,7	2,5	5,8	2,2	1,5	-4,3
Month-on-month % change, seasonally adjusted	0,7	-1,1	1,0	-1,6	0,4	-0,5
3-month % change, seasonally adjusted <sup>1</sup>	1,5	2,8	2,2	0,6	-0,4	-1,2

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

Manufacturing production decreased by 4,3% in September 2023 compared with September 2022. The largest negative contributions were made by the following divisions:

- food and beverages (-10,5% and contributing -2,6 percentage points); and
- motor vehicles, parts and accessories and other transport equipment (-19,7% and contributing -2,3 percentage points) – see Tables 5 and 6.

Seasonally adjusted manufacturing production decreased by 0,5% in September 2023 compared with August 2023. This followed month-on-month changes of 0,4% in August 2023 and -1,6% in July 2023 – see Table A.

Seasonally adjusted manufacturing production decreased by 1,2% in the third quarter of 2023 compared with the second quarter of 2023. Eight of the ten manufacturing divisions reported negative growth rates over this period.

The largest negative contributions were made by the following divisions:

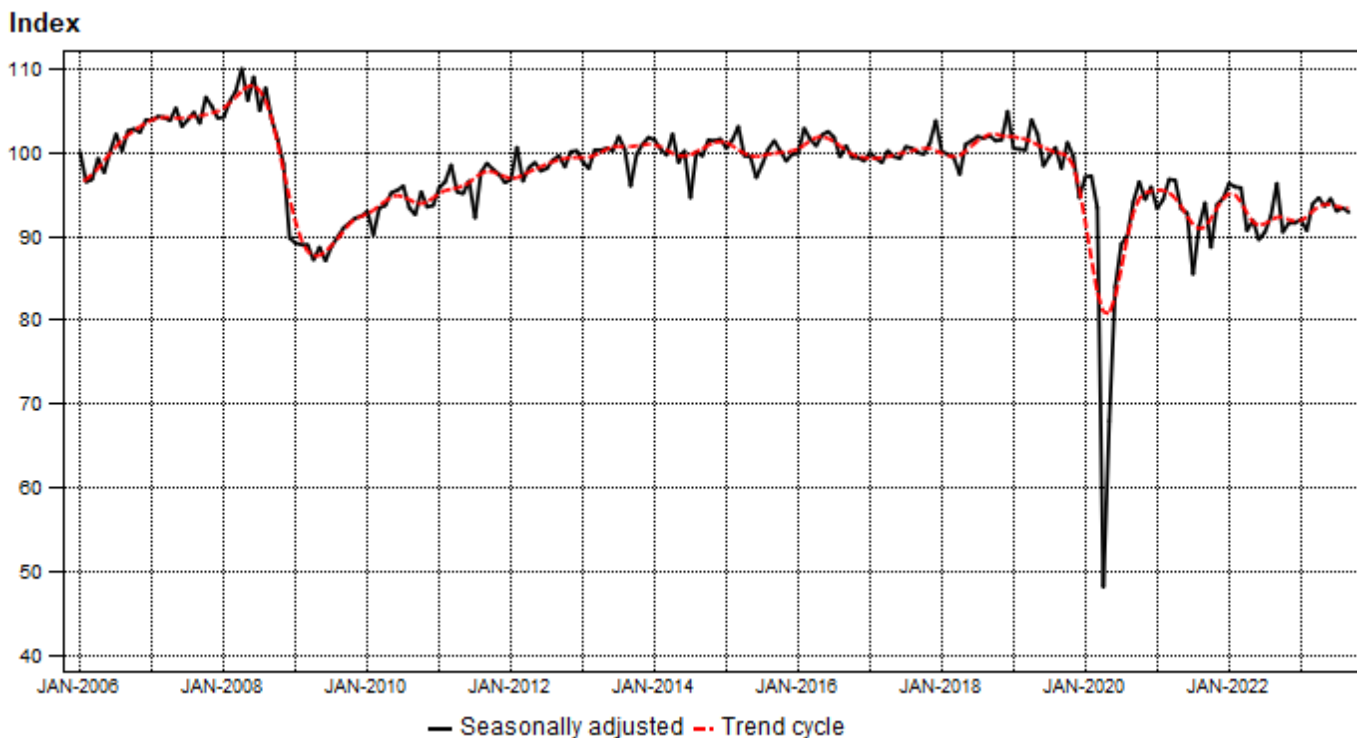
- food and beverages (-3,1% and contributing -0,7 of a percentage point); and
- petroleum, chemical products, rubber and plastic products (-2,1% and contributing -0,4 of a percentage point) – see Table B.

**Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2019=100)**

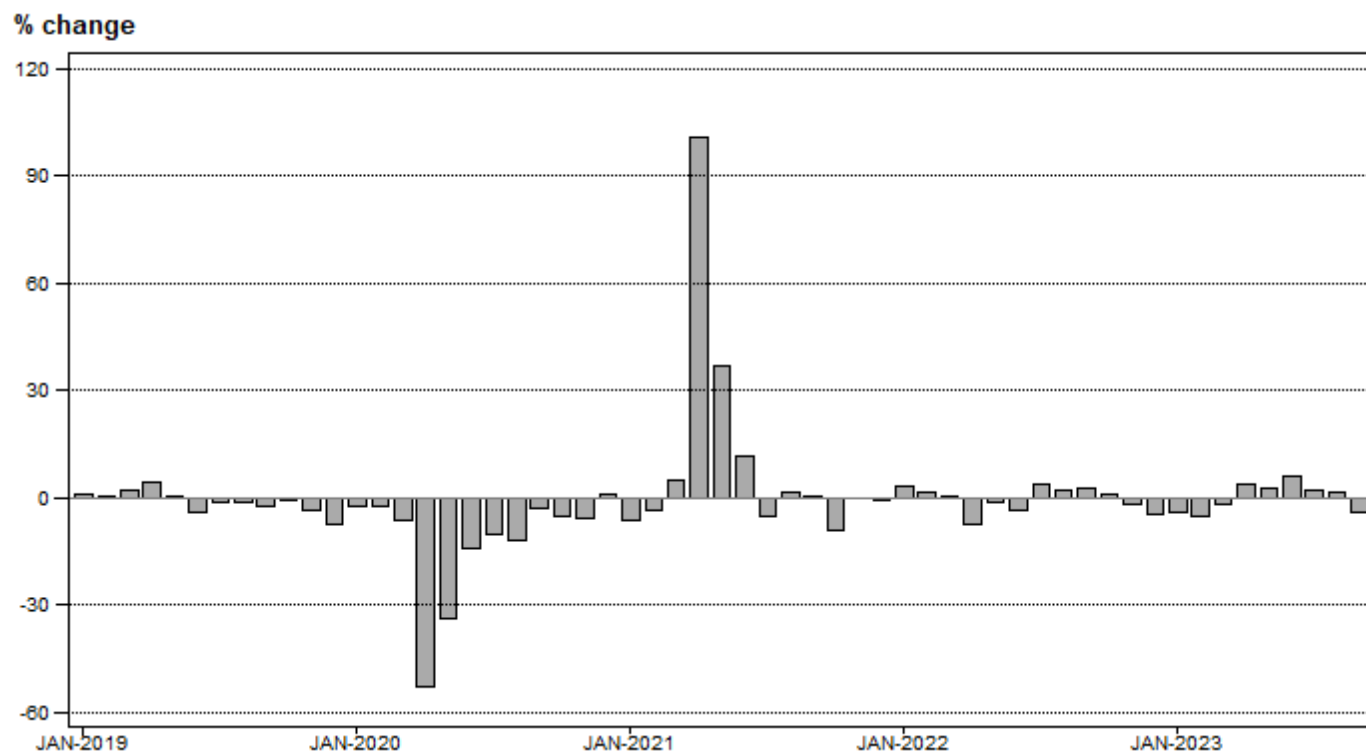
Manufacturing division and major group	Weight *	Apr – Jun 2023	Jul – Sep 2023	% change between Apr – Jun 2023 and Jul – Sep 2023	Contribution (% points) to the total % change
<b>Food and beverages</b>	<b>21,44</b>	<b>101,7</b>	<b>98,5</b>	<b>-3,1</b>	<b>-0,7</b>
Meat, fish, fruit, etc.	3,42	107,0	109,9	2,7	0,1
Dairy products	1,47	106,4	95,4	-10,3	-0,2
Grain mill products	1,85	103,5	102,7	-0,8	0,0
Other food products	7,81	90,4	84,2	-6,9	-0,5
Beverages	6,89	110,5	108,6	-1,7	-0,1
<b>Textiles, clothing, leather and footwear</b>	<b>4,07</b>	<b>92,1</b>	<b>90,6</b>	<b>-1,6</b>	<b>-0,1</b>
Textiles	1,04	103,1	101,4	-1,6	0,0
Other textile products	0,58	90,1	90,7	0,7	0,0
Knitted, crocheted articles	0,06	84,4	95,2	12,8	0,0
Wearing apparel	1,88	86,9	84,1	-3,2	-0,1
Leather and leather products	0,26	81,0	83,7	3,3	0,0
Footwear	0,25	103,4	101,5	-1,8	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,48</b>	<b>91,6</b>	<b>95,6</b>	<b>4,4</b>	<b>0,4</b>
Sawmilling and planing of wood	0,86	95,2	98,1	3,0	0,0
Products of wood	0,90	106,6	118,0	10,7	0,1
Paper and paper products	5,26	91,7	94,1	2,6	0,1
Publishing	2,10	82,4	88,5	7,4	0,1
Printing, recorded media	1,36	92,9	95,6	2,9	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,86</b>	<b>79,7</b>	<b>78,0</b>	<b>-2,1</b>	<b>-0,4</b>
Coke, petroleum products and nuclear fuel	11,92	62,5	58,4	-6,6	-0,5
Basic chemicals	3,39	100,4	100,8	0,4	0,0
Other chemical products	6,82	91,4	92,1	0,8	0,1
Rubber products	0,68	92,0	95,2	3,5	0,0
Plastic products	2,05	102,6	101,7	-0,9	0,0
<b>Glass and non-metallic mineral products</b>	<b>3,10</b>	<b>100,7</b>	<b>100,5</b>	<b>-0,2</b>	<b>0,0</b>
Glass and glass products	0,48	104,5	99,6	-4,7	0,0
Non-metallic mineral products	2,62	100,1	100,7	0,6	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>19,96</b>	<b>99,4</b>	<b>98,7</b>	<b>-0,7</b>	<b>-0,1</b>
Basic iron and steel products	2,92	82,4	81,5	-1,1	0,0
Non-ferrous metal products	3,54	88,8	88,8	0,0	0,0
Structural metal products	2,01	100,3	101,9	1,6	0,0
Other fabricated metal products	3,65	105,3	103,3	-1,9	-0,1
General purpose machinery	3,45	110,7	106,0	-4,2	-0,2
Special purpose machinery	3,73	105,5	106,6	1,0	0,0
Household appliances	0,66	103,9	109,0	4,9	0,0
<b>Electrical machinery</b>	<b>2,14</b>	<b>108,4</b>	<b>107,2</b>	<b>-1,1</b>	<b>0,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,06</b>	<b>100,9</b>	<b>96,3</b>	<b>-4,6</b>	<b>-0,1</b>
Radio, television and communication apparatus	0,03	94,6	92,3	-2,4	0,0
Professional equipment	1,03	101,4	96,6	-4,7	-0,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,72</b>	<b>104,2</b>	<b>104,3</b>	<b>0,1</b>	<b>0,0</b>
Motor vehicles	2,62	101,4	102,6	1,2	0,0
Bodies for motor vehicles, trailers and semi-trailers	0,75	105,5	109,1	3,4	0,0
Parts and accessories	4,03	110,0	110,2	0,2	0,0
Other transport equipment	1,32	91,4	87,0	-4,8	-0,1
<b>Furniture and other manufacturing</b>	<b>4,17</b>	<b>91,3</b>	<b>88,1</b>	<b>-3,5</b>	<b>-0,1</b>
Furniture	0,69	93,2	93,5	0,3	0,0
Other manufacturing groups	3,48	90,8	87,0	-4,2	-0,1
<b>Total</b>	<b>100</b>	<b>94,2</b>	<b>93,1</b>	<b>-1,2</b>	<b>-1,2</b>

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

**Figure 1 – Volume of manufacturing production (Base: 2019=100)**



**Figure 2 – Volume of manufacturing production (Base: 2019=100): year-on-year percentage change**



## Sales: results for September 2023

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

	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
Year-on-year % change, unadjusted	13,0	8,2	8,9	9,2	11,4	6,4
Month-on-month % change, seasonally adjusted	-0,3	-2,7	-0,3	1,6	2,3	0,3
3-month % change, seasonally adjusted <sup>1</sup>	5,4	4,2	1,0	-1,3	-0,4	2,2

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

Seasonally adjusted manufacturing sales increased by 0,3% in September 2023 compared with August 2023. This followed month-on-month changes of 2,3% in August 2023 and 1,6% in July 2023 – see Table C.

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

Manufacturing division	Apr – Jun 2023 (R million)	Jul – Sep 2023 (R million)	% change between Apr – Jun 2023 and Jul – Sep 2023	Contribution (% points) to the total % change
Food and beverages	196 579	189 679	-3,5	-0,8
Textiles, clothing, leather and footwear	18 939	19 073	0,7	0,0
Wood and wood products, paper, publishing and printing	52 048	53 998	3,7	0,2
Petroleum, chemical products, rubber and plastic products	165 124	177 857	7,7	1,6
Glass and non-metallic mineral products	21 901	22 103	0,9	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	174 967	176 030	0,6	0,1
Electrical machinery	22 030	21 861	-0,8	0,0
Radio, television and communication apparatus and professional equipment	7 422	7 195	-3,1	0,0
Motor vehicles, parts and accessories and other transport equipment	124 819	133 353	6,8	1,0
Furniture and other manufacturing	31 759	32 002	0,8	0,0
<b>Total</b>	<b>815 588</b>	<b>833 151</b>	<b>2,2</b>	<b>2,2</b>

Seasonally adjusted manufacturing sales increased by 2,2% in the third quarter of 2023 compared with the second quarter of 2023.

The largest positive contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (7,7% and contributing 1,6 percentage points); and
- motor vehicles, parts and accessories and other transport equipment (6,8% and contributing 1,0 percentage point) – see Table D.

**Risenga Maluleke**  
Statistician-General

## Note – Reweighting of manufacturing production

### Introduction

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

### Reweighting

New high-level weights for the manufacturing groups and divisions have been calculated based on national accounts value added data up to 2020. Previously, the weights were calculated from national accounts value added data up to 2019. The new and old weights are shown in Table E below and in more detail in Table G on page 21. The high-level weights are calculated as a three-year average of value added. The high-level weights for 2019 are the average of value added for 2017, 2018 and 2019, and the high-level weights for 2020 and following years are the average for 2018, 2019 and 2020. Historically, changes in manufacturing weights have been small, and the use of a moving average provides additional stability in the weights. The weights are updated annually.

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

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

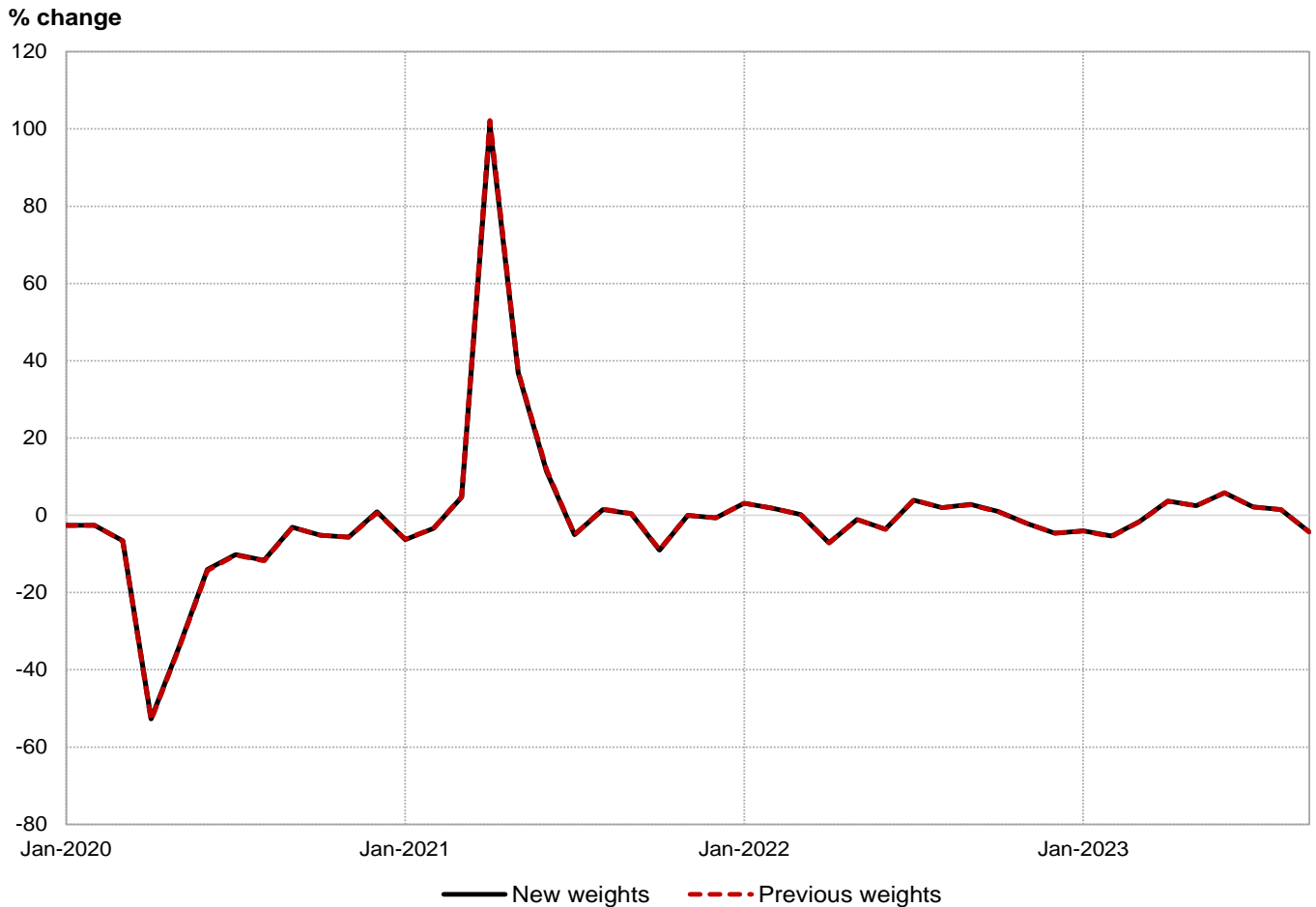
Manufacturing division	Previous weights based on value added for 2017 – 2019	New weights based on value added for 2018 – 2020	Year to date annual % change for 2023 <sup>1</sup>		Difference in results (% points)
			Previous weights	New weights	
Food and beverages	20,75	21,44	-0,8	-0,7	0,1
Textiles, clothing, leather and footwear	4,26	4,07	-3,3	-3,3	0,0
Wood and wood products, paper, publishing and printing	10,63	10,48	-0,1	0,0	0,1
Petroleum, chemical products, rubber and plastic products	24,95	24,86	-0,8	-0,8	0,0
Glass and non-metallic mineral products	3,24	3,10	-2,3	-2,3	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	19,96	1,7	1,6	-0,1
Electrical machinery	2,21	2,14	5,5	6,9	1,4
Radio, television and communication apparatus and professional equipment	1,07	1,06	-3,2	-2,8	0,4
Motor vehicles, parts and accessories and other transport equipment	8,89	8,72	2,0	1,9	-0,1
Furniture and other manufacturing	4,27	4,17	-3,5	-3,6	-0,1
<b>Total manufacturing</b>	<b>100</b>	<b>100</b>	<b>-0,1</b>	<b>-0,1</b>	<b>0,0</b>

<sup>1</sup> Up to September 2023.

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

Manufacturing division	Previous weights			New weights		
	2020	2021	2022	2020	2021	2022
Food and beverages	-5,6	6,3	0,0	-5,6	6,3	0,0
Textiles, clothing, leather and footwear	-17,4	13,1	0,3	-17,4	13,2	0,2
Wood and wood products, paper, publishing and printing	-13,3	9,7	-2,8	-13,3	9,8	-2,8
Petroleum, chemical products, rubber and plastic products	-10,8	-10,8	-2,4	-10,9	-10,8	-2,6
Glass and non-metallic mineral products	-14,5	19,8	0,9	-14,5	19,8	0,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	-12,4	9,8	0,0	-12,4	9,7	0,0
Electrical machinery	-15,9	14,6	1,3	-15,1	13,7	2,8
Radio, television and communication apparatus and professional equipment	-6,7	0,5	9,7	-7,0	0,8	9,3
Motor vehicles, parts and accessories and other transport equipment	-24,7	33,2	2,4	-24,6	33,6	2,2
Furniture and other manufacturing	-21,2	12,2	2,0	-21,1	12,2	2,0
<b>Total manufacturing</b>	<b>-12,5</b>	<b>6,2</b>	<b>-0,3</b>	<b>-12,3</b>	<b>5,9</b>	<b>-0,3</b>

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





## Tables

**Table 1 – Index of the volume of manufacturing production (Base: 2019=100)**

Month	2017	2018	2019	2020 *	2021 *	2022 *	2023 <sup>1</sup> *
Jan	85,7	87,1	88,0	85,7	80,3	82,8	79,5
Feb	94,3	94,5	94,9	92,4	89,3	90,9	86,0
Mar	101,5	98,9	101,2	94,5	98,9	99,1	97,5
Apr	90,5	91,9	95,8	45,3	91,1	84,5	87,6
May	100,1	101,8	102,0	67,2	92,0	91,0	93,3
Jun	101,5	101,9	97,8	84,1	93,7	90,3	95,5
Jul	100,6	103,2	101,8	91,4	86,8	90,2	92,2
Aug	105,0	106,6	105,2	92,9	94,3	96,2	97,6
Sep	105,4	104,9	102,6	99,4	99,8	102,6	98,2
Oct	109,8	113,4	112,7	106,8	97,2	98,2	
Nov	114,0	115,3	111,0	104,7	104,7	102,5	
Dec	93,2	93,7	86,8	87,6	87,0	82,9	
<b>Total</b>	<b>100,1</b>	<b>101,1</b>	<b>100,0</b>	<b>87,7</b>	<b>92,9</b>	<b>92,6</b>	

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

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

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

Month	2018	2019	2020	2021	2022	2023	2023 year-to-date
Jan	1,6	1,0	-2,6	-6,3	3,1	-4,0	-4,0
Feb	0,2	0,4	-2,6	-3,4	1,8	-5,4	-4,7
Mar	-2,6	2,3	-6,6	4,7	0,2	-1,6	-3,5
Apr	1,5	4,2	-52,7	101,1	-7,2	3,7	-1,8
May	1,7	0,2	-34,1	36,9	-1,1	2,5	-1,0
Jun	0,4	-4,0	-14,0	11,4	-3,6	5,8	0,1
Jul	2,6	-1,4	-10,2	-5,0	3,9	2,2	0,4
Aug	1,5	-1,3	-11,7	1,5	2,0	1,5	0,7
Sep	-0,5	-2,2	-3,1	0,4	2,8	-4,3	-0,1
Oct	3,3	-0,6	-5,2	-9,0	1,0		
Nov	1,1	-3,7	-5,7	0,0	-2,1		
Dec	0,5	-7,4	0,9	-0,7	-4,7		
<b>Total</b>	<b>1,0</b>	<b>-1,1</b>	<b>-12,3</b>	<b>5,9</b>	<b>-0,3</b>		

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

Month	Index (Base: 2019=100)				Month-on-month % change			
	2020	2021	2022	2023	2020	2021	2022	2023
Jan	97,1	93,3	96,3	92,0	2,6	-2,7	1,9	0,4
Feb	97,2	94,4	95,9	90,7	0,1	1,2	-0,4	-1,4
Mar	93,4	96,8	95,8	93,9	-3,9	2,5	-0,1	3,5
Apr	48,2	96,7	90,7	94,6	-48,4	-0,1	-5,3	0,7
May	68,0	93,3	91,9	93,6	41,1	-3,5	1,3	-1,1
Jun	84,0	92,8	89,6	94,5	23,5	-0,5	-2,5	1,0
Jul	89,1	85,5	90,5	93,0	6,1	-7,9	1,0	-1,6
Aug	90,0	91,2	92,4	93,4	1,0	6,7	2,1	0,4
Sep	94,1	94,0	96,3	92,9	4,6	3,1	4,2	-0,5
Oct	96,5	88,7	90,5		2,6	-5,6	-6,0	
Nov	94,4	93,8	91,6		-2,2	5,7	1,2	
Dec	95,9	94,5	91,6		1,6	0,7	0,0	

**Table 4 – Index of the volume of manufacturing production by division and major group (Base: 2019=100)**

Manufacturing division and major group	* Weight	* Apr-23	* May-23	* Jun-23	<sup>1</sup> Jul-23	<sup>1</sup> Aug-23	<sup>1</sup> Sep-23
<b>Food and beverages</b>	<b>21,44</b>	<b>95,8</b>	<b>97,7</b>	<b>102,0</b>	<b>90,5</b>	<b>98,8</b>	<b>105,5</b>
Meat, fish, fruit, etc.	3,42	95,8	109,2	110,5	105,4	109,5	111,3
Dairy products	1,47	96,3	102,5	96,6	86,7	96,1	101,1
Grain mill products	1,85	93,1	109,1	103,6	103,7	103,6	104,9
Other food products	7,81	95,4	86,0	105,5	84,1	93,5	90,1
Beverages	6,89	96,9	101,3	94,5	87,7	98,8	121,1
<b>Textiles, clothing, leather and footwear</b>	<b>4,07</b>	<b>84,5</b>	<b>93,2</b>	<b>92,9</b>	<b>95,0</b>	<b>92,7</b>	<b>95,6</b>
Textiles	1,04	91,0	114,3	114,3	106,1	106,4	105,8
Other textile products	0,58	85,6	84,5	91,2	87,9	83,9	101,9
Knitted, crocheted articles	0,06	80,5	88,2	80,2	91,1	112,0	114,5
Wearing apparel	1,88	81,8	85,1	82,3	89,7	86,1	87,1
Leather and leather products	0,26	72,1	81,0	81,3	90,2	77,8	85,3
Footwear	0,25	89,3	99,8	102,2	111,4	116,7	108,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,48</b>	<b>79,6</b>	<b>83,2</b>	<b>91,9</b>	<b>94,5</b>	<b>104,5</b>	<b>108,0</b>
Sawmilling and planing of wood	0,86	86,1	93,9	103,9	105,1	111,1	97,3
Products of wood	0,90	94,8	104,6	101,8	120,1	128,3	133,3
Paper and paper products	5,26	82,8	82,3	94,0	92,7	96,1	107,5
Publishing	2,10	62,3	72,1	80,1	84,4	114,0	102,6
Printing, recorded media	1,36	80,1	82,7	87,7	93,0	102,3	107,9
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,86</b>	<b>76,6</b>	<b>76,5</b>	<b>77,7</b>	<b>78,4</b>	<b>80,2</b>	<b>80,3</b>
Coke, petroleum products and nuclear fuel	11,92	64,6	53,8	55,9	62,3	58,4	56,0
Basic chemicals	3,39	97,8	102,0	103,9	95,1	105,9	110,2
Other chemical products	6,82	82,0	94,9	94,3	88,2	93,9	99,0
Rubber products	0,68	89,1	85,7	97,5	103,4	103,4	94,8
Plastic products	2,05	89,5	102,3	98,8	104,0	111,4	104,6
<b>Glass and non-metallic mineral products</b>	<b>3,10</b>	<b>91,2</b>	<b>110,5</b>	<b>99,4</b>	<b>104,8</b>	<b>105,3</b>	<b>107,8</b>
Glass and glass products	0,48	96,4	104,0	99,9	99,6	95,7	111,6
Non-metallic mineral products	2,62	90,3	111,7	99,3	105,7	107,0	107,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>19,96</b>	<b>93,7</b>	<b>103,9</b>	<b>104,4</b>	<b>95,3</b>	<b>107,6</b>	<b>102,0</b>
Basic iron and steel products	2,92	91,8	82,3	77,8	76,4	81,5	79,7
Non-ferrous metal products	3,54	83,0	94,3	92,3	82,8	94,0	88,0
Structural metal products	2,01	96,6	98,5	101,1	101,2	118,4	110,6
Other fabricated metal products	3,65	89,5	112,6	112,9	108,6	113,4	103,7
General purpose machinery	3,45	102,9	119,5	120,3	101,6	119,9	115,2
Special purpose machinery	3,73	98,2	109,5	114,8	97,4	117,7	112,1
Household appliances	0,66	99,3	107,3	108,6	108,4	108,6	114,3
<b>Electrical machinery</b>	<b>2,14</b>	<b>102,7</b>	<b>116,9</b>	<b>113,4</b>	<b>111,9</b>	<b>111,3</b>	<b>107,5</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,06</b>	<b>93,4</b>	<b>102,9</b>	<b>100,2</b>	<b>101,5</b>	<b>94,2</b>	<b>92,2</b>
Radio, television and communication apparatus	0,03	79,1	80,4	86,9	78,6	93,2	100,4
Professional equipment	1,03	94,6	104,7	101,3	103,4	94,3	91,5
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,72</b>	<b>92,9</b>	<b>107,4</b>	<b>110,5</b>	<b>112,3</b>	<b>114,0</b>	<b>108,9</b>
Motor vehicles	2,62	84,1	102,6	104,7	115,7	115,8	113,4
Bodies for motor vehicles, trailers and semi-trailers	0,75	93,3	118,7	125,6	114,1	119,3	117,2
Parts and accessories	4,03	103,7	115,5	118,0	120,4	121,6	108,5
Other transport equipment	1,32	77,3	85,5	90,2	79,4	84,4	96,3
<b>Furniture and other manufacturing</b>	<b>4,17</b>	<b>82,3</b>	<b>87,9</b>	<b>92,2</b>	<b>95,4</b>	<b>88,0</b>	<b>95,1</b>
Furniture	0,69	82,0	90,4	93,3	89,7	94,5	107,9
Other manufacturing groups	3,48	82,3	87,4	91,9	96,4	86,7	92,6
<b>Total</b>	<b>100</b>	<b>87,6</b>	<b>93,3</b>	<b>95,5</b>	<b>92,2</b>	<b>97,6</b>	<b>98,2</b>

<sup>1</sup> Preliminary.

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

**Table 5 – Year-on-year percentage change in the volume of manufacturing production by division and major group (Base: 2019=100)**

Manufacturing division and major group	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
<b>Food and beverages</b>	<b>4,9</b>	<b>1,0</b>	<b>6,3</b>	<b>-3,9</b>	<b>-2,9</b>	<b>-10,5</b>
Meat, fish, fruit, etc.	-2,4	5,2	12,5	4,2	4,5	2,0
Dairy products	13,8	31,7	22,1	-2,8	3,3	-2,2
Grain mill products	1,2	7,7	2,9	6,5	-0,9	5,3
Other food products	2,4	-5,5	15,3	-9,5	-5,9	-20,3
Beverages	11,5	-1,1	-7,7	-5,2	-5,0	-10,8
<b>Textiles, clothing, leather and footwear</b>	<b>1,3</b>	<b>0,9</b>	<b>7,0</b>	<b>0,4</b>	<b>-2,3</b>	<b>-4,8</b>
Textiles	-12,8	-3,3	2,2	-7,0	-5,4	-3,4
Other textile products	0,6	0,7	5,6	-2,2	-9,3	-1,6
Knitted, crocheted articles	14,3	-9,4	-6,2	2,9	16,1	9,5
Wearing apparel	10,5	4,5	17,4	7,4	4,6	-5,6
Leather and leather products	3,3	-11,6	-15,9	-4,2	-21,1	-17,3
Footwear	11,5	13,8	2,8	1,3	-1,6	-4,1
<b>Wood and wood products, paper, publishing and printing</b>	<b>2,3</b>	<b>0,7</b>	<b>0,4</b>	<b>6,7</b>	<b>1,6</b>	<b>-2,5</b>
Sawmilling and planing of wood	4,7	4,0	13,2	14,1	-0,4	-7,9
Products of wood	6,0	6,7	6,2	11,9	21,8	16,5
Paper and paper products	4,0	-1,0	-4,8	4,0	-2,6	-5,5
Publishing	-4,4	3,3	14,9	13,1	6,8	-3,6
Printing, recorded media	0,0	-3,5	-6,9	-0,9	-3,4	0,7
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>2,7</b>	<b>-3,4</b>	<b>2,2</b>	<b>7,4</b>	<b>7,4</b>	<b>6,6</b>
Coke, petroleum products and nuclear fuel	12,3	4,5	20,5	38,8	15,9	21,7
Basic chemicals	-4,8	-12,7	-8,8	-12,8	-0,6	3,7
Other chemical products	-2,3	-7,6	-5,9	-4,9	4,8	2,0
Rubber products	-2,8	-7,8	0,1	6,9	12,6	-8,8
Plastic products	-1,3	7,3	0,9	0,5	3,6	-6,6
<b>Glass and non-metallic mineral products</b>	<b>-1,1</b>	<b>1,0</b>	<b>-4,1</b>	<b>1,8</b>	<b>-4,2</b>	<b>-5,7</b>
Glass and glass products	-3,4	-3,1	0,9	0,2	-16,1	-1,3
Non-metallic mineral products	-0,6	1,7	-5,1	2,1	-1,9	-6,5
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>4,2</b>	<b>7,3</b>	<b>7,1</b>	<b>-1,5</b>	<b>3,8</b>	<b>1,3</b>
Basic iron and steel products	0,5	-3,7	3,7	-14,2	-1,3	-6,1
Non-ferrous metal products	-6,3	5,7	11,5	0,4	-3,7	-1,3
Structural metal products	34,7	14,1	-1,4	8,5	8,5	-5,7
Other fabricated metal products	2,9	16,3	13,9	6,7	1,3	-5,2
General purpose machinery	15,7	2,6	3,7	-9,8	3,3	-2,2
Special purpose machinery	-4,0	10,6	7,5	-0,5	13,7	24,4
Household appliances	0,8	1,7	7,3	7,8	3,8	9,1
<b>Electrical machinery</b>	<b>2,8</b>	<b>16,4</b>	<b>16,9</b>	<b>14,8</b>	<b>13,5</b>	<b>5,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>5,1</b>	<b>3,2</b>	<b>-3,8</b>	<b>3,5</b>	<b>-11,8</b>	<b>-13,3</b>
Radio, television and communication apparatus	29,9	14,2	3,6	19,6	-0,6	0,1
Professional equipment	3,7	2,5	-4,3	2,7	-12,6	-14,4
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>5,1</b>	<b>15,0</b>	<b>18,9</b>	<b>9,1</b>	<b>-1,2</b>	<b>-19,7</b>
Motor vehicles	7,0	17,3	36,7	36,1	-0,6	-16,7
Bodies for motor vehicles, trailers and semi-trailers	-14,2	-0,3	-11,9	-11,4	-1,1	-7,9
Parts and accessories	11,9	22,5	23,9	3,2	-1,5	-25,2
Other transport equipment	-6,8	-3,1	-0,3	-3,1	-1,6	-12,6
<b>Furniture and other manufacturing</b>	<b>4,7</b>	<b>-9,7</b>	<b>3,5</b>	<b>-3,5</b>	<b>-2,8</b>	<b>-2,8</b>
Furniture	7,2	0,9	3,2	7,2	7,9	15,0
Other manufacturing groups	4,0	-11,5	3,4	-5,4	-4,8	-6,1
<b>Total</b>	<b>3,7</b>	<b>2,5</b>	<b>5,8</b>	<b>2,2</b>	<b>1,5</b>	<b>-4,3</b>

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

Manufacturing division and major group	* Weight	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
<b>Food and beverages</b>	<b>21,44</b>	<b>1,1</b>	<b>0,2</b>	<b>1,4</b>	<b>-0,9</b>	<b>-0,6</b>	<b>-2,6</b>
Meat, fish, fruit, etc.	3,42	-0,1	0,2	0,5	0,2	0,2	0,1
Dairy products	1,47	0,2	0,4	0,3	0,0	0,0	0,0
Grain mill products	1,85	0,0	0,2	0,1	0,1	0,0	0,1
Other food products	7,81	0,2	-0,4	1,2	-0,8	-0,5	-1,8
Beverages	6,89	0,8	-0,1	-0,6	-0,4	-0,4	-1,0
<b>Textiles, clothing, leather and footwear</b>	<b>4,07</b>	<b>0,1</b>	<b>0,0</b>	<b>0,3</b>	<b>0,0</b>	<b>-0,1</b>	<b>-0,2</b>
Textiles	1,04	-0,2	0,0	0,0	-0,1	-0,1	0,0
Other textile products	0,58	0,0	0,0	0,0	0,0	-0,1	0,0
Knitted, crocheted articles	0,06	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	1,88	0,2	0,1	0,3	0,1	0,1	-0,1
Leather and leather products	0,26	0,0	0,0	0,0	0,0	-0,1	0,0
Footwear	0,25	0,0	0,0	0,0	0,0	0,0	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,48</b>	<b>0,2</b>	<b>0,1</b>	<b>0,0</b>	<b>0,7</b>	<b>0,2</b>	<b>-0,3</b>
Sawmilling and planing of wood	0,86	0,0	0,0	0,1	0,1	0,0	-0,1
Products of wood	0,90	0,1	0,1	0,1	0,1	0,2	0,2
Paper and paper products	5,26	0,2	0,0	-0,3	0,2	-0,1	-0,3
Publishing	2,10	-0,1	0,1	0,2	0,2	0,2	-0,1
Printing, recorded media	1,36	0,0	0,0	-0,1	0,0	-0,1	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,86</b>	<b>0,6</b>	<b>-0,7</b>	<b>0,5</b>	<b>1,5</b>	<b>1,4</b>	<b>1,2</b>
Coke, petroleum products and nuclear fuel	11,92	1,0	0,3	1,3	2,3	1,0	1,2
Basic chemicals	3,39	-0,2	-0,6	-0,4	-0,5	0,0	0,1
Other chemical products	6,82	-0,2	-0,6	-0,4	-0,3	0,3	0,1
Rubber products	0,68	0,0	-0,1	0,0	0,1	0,1	-0,1
Plastic products	2,05	0,0	0,2	0,0	0,0	0,1	-0,1
<b>Glass and non-metallic mineral products</b>	<b>3,10</b>	<b>0,0</b>	<b>0,0</b>	<b>-0,1</b>	<b>0,1</b>	<b>-0,1</b>	<b>-0,2</b>
Glass and glass products	0,48	0,0	0,0	0,0	0,0	-0,1	0,0
Non-metallic mineral products	2,62	0,0	0,1	-0,2	0,1	-0,1	-0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>19,96</b>	<b>0,9</b>	<b>1,6</b>	<b>1,5</b>	<b>-0,3</b>	<b>0,8</b>	<b>0,3</b>
Basic iron and steel products	2,92	0,0	-0,1	0,1	-0,4	0,0	-0,1
Non-ferrous metal products	3,54	-0,2	0,2	0,4	0,0	-0,1	0,0
Structural metal products	2,01	0,6	0,3	0,0	0,2	0,2	-0,1
Other fabricated metal products	3,65	0,1	0,6	0,6	0,3	0,1	-0,2
General purpose machinery	3,45	0,6	0,1	0,2	-0,4	0,1	-0,1
Special purpose machinery	3,73	-0,2	0,4	0,3	0,0	0,6	0,8
Household appliances	0,66	0,0	0,0	0,1	0,1	0,0	0,1
<b>Electrical machinery</b>	<b>2,14</b>	<b>0,1</b>	<b>0,4</b>	<b>0,4</b>	<b>0,3</b>	<b>0,3</b>	<b>0,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,06</b>	<b>0,1</b>	<b>0,0</b>	<b>0,0</b>	<b>0,0</b>	<b>-0,1</b>	<b>-0,1</b>
Radio, television and communication apparatus	0,03	0,0	0,0	0,0	0,0	0,0	0,0
Professional equipment	1,03	0,0	0,0	-0,1	0,0	-0,1	-0,2
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,72</b>	<b>0,5</b>	<b>1,3</b>	<b>1,7</b>	<b>0,9</b>	<b>-0,1</b>	<b>-2,3</b>
Motor vehicles	2,62	0,2	0,4	0,8	0,9	0,0	-0,6
Bodies for motor vehicles, trailers and semi-trailers	0,75	-0,1	0,0	-0,1	-0,1	0,0	-0,1
Parts and accessories	4,03	0,5	0,9	1,0	0,2	-0,1	-1,4
Other transport equipment	1,32	-0,1	0,0	0,0	0,0	0,0	-0,2
<b>Furniture and other manufacturing</b>	<b>4,17</b>	<b>0,2</b>	<b>-0,4</b>	<b>0,1</b>	<b>-0,2</b>	<b>-0,1</b>	<b>-0,1</b>
Furniture	0,69	0,0	0,0	0,0	0,0	0,0	0,1
Other manufacturing groups	3,48	0,1	-0,4	0,1	-0,2	-0,2	-0,2
<b>Total</b>	<b>100</b>	<b>3,7</b>	<b>2,5</b>	<b>5,8</b>	<b>2,2</b>	<b>1,5</b>	<b>-4,3</b>

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

**Table 7 – Seasonally adjusted index of the volume of manufacturing production by division and major group (Base: 2019=100)**

Manufacturing division and major group	* Weight	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Month-on-month % change
<b>Food and beverages</b>	<b>21,44</b>	<b>99,2</b>	<b>102,8</b>	<b>98,4</b>	<b>97,5</b>	<b>99,6</b>	<b>2,2</b>
Meat, fish, fruit, etc.	3,42	106,9	110,0	110,0	109,9	109,8	-0,1
Dairy products	1,47	110,0	105,5	93,5	97,0	95,8	-1,2
Grain mill products	1,85	104,9	103,0	103,0	101,0	104,2	3,2
Other food products	7,81	82,9	93,6	84,8	83,8	84,0	0,2
Beverages	6,89	110,0	109,0	107,9	105,9	111,9	5,7
<b>Textiles, clothing, leather and footwear</b>	<b>4,07</b>	<b>92,2</b>	<b>93,7</b>	<b>91,3</b>	<b>90,6</b>	<b>90,0</b>	<b>-0,7</b>
Textiles	1,04	105,5	108,2	100,6	103,5	100,0	-3,4
Other textile products	0,58	87,5	90,1	92,0	86,8	93,2	7,4
Knitted, crocheted articles	0,06	84,8	83,0	91,9	96,3	97,5	1,2
Wearing apparel	1,88	85,7	87,7	84,7	84,5	83,1	-1,7
Leather and leather products	0,26	83,2	83,0	90,2	80,2	80,6	0,5
Footwear	0,25	107,7	101,4	101,7	101,4	101,3	-0,1
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,48</b>	<b>90,8</b>	<b>92,0</b>	<b>96,2</b>	<b>96,3</b>	<b>94,3</b>	<b>-2,1</b>
Sawmilling and planing of wood	0,86	91,0	98,0	100,1	100,8	93,5	-7,2
Products of wood	0,90	109,3	104,4	114,8	119,5	119,7	0,2
Paper and paper products	5,26	89,6	91,0	95,6	93,4	93,4	0,0
Publishing	2,10	84,7	86,1	88,6	92,5	84,3	-8,9
Printing, recorded media	1,36	92,0	92,8	95,0	95,3	96,6	1,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,86</b>	<b>78,3</b>	<b>78,2</b>	<b>78,1</b>	<b>77,4</b>	<b>78,4</b>	<b>1,3</b>
Coke, petroleum products and nuclear fuel	11,92	59,6	60,1	60,4	56,7	58,0	2,3
Basic chemicals	3,39	100,4	99,1	96,2	101,8	104,4	2,6
Other chemical products	6,82	91,2	90,8	90,7	90,9	94,6	4,1
Rubber products	0,68	85,9	91,6	96,3	98,8	90,6	-8,3
Plastic products	2,05	105,0	101,8	102,9	105,7	96,5	-8,7
<b>Glass and non-metallic mineral products</b>	<b>3,10</b>	<b>103,7</b>	<b>98,7</b>	<b>102,1</b>	<b>99,3</b>	<b>100,1</b>	<b>0,8</b>
Glass and glass products	0,48	103,2	105,7	102,5	91,1	105,2	15,5
Non-metallic mineral products	2,62	103,8	97,5	102,0	100,8	99,2	-1,6
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>19,96</b>	<b>100,3</b>	<b>100,6</b>	<b>95,6</b>	<b>102,5</b>	<b>97,9</b>	<b>-4,5</b>
Basic iron and steel products	2,92	79,2	81,7	80,0	84,1	80,3	-4,5
Non-ferrous metal products	3,54	89,7	90,6	88,1	90,0	88,2	-2,0
Structural metal products	2,01	99,9	95,6	99,1	106,8	99,7	-6,6
Other fabricated metal products	3,65	110,2	110,4	104,9	107,8	97,3	-9,7
General purpose machinery	3,45	111,6	110,5	100,0	111,1	106,9	-3,8
Special purpose machinery	3,73	106,7	107,7	97,4	112,3	110,1	-2,0
Household appliances	0,66	102,0	107,7	109,7	107,0	110,3	3,1
<b>Electrical machinery</b>	<b>2,14</b>	<b>110,3</b>	<b>107,1</b>	<b>112,4</b>	<b>106,8</b>	<b>102,5</b>	<b>-4,0</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,06</b>	<b>103,0</b>	<b>98,3</b>	<b>101,5</b>	<b>95,4</b>	<b>91,9</b>	<b>-3,7</b>
Radio, television and communication apparatus	0,03	93,6	93,9	92,6	92,6	91,7	-1,0
Professional equipment	1,03	103,7	98,7	102,2	95,6	91,9	-3,9
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,72</b>	<b>105,4</b>	<b>107,1</b>	<b>105,2</b>	<b>104,3</b>	<b>103,3</b>	<b>-1,0</b>
Motor vehicles	2,62	102,7	104,3	106,1	99,1	102,6	3,5
Bodies for motor vehicles, trailers and semi-trailers	0,75	112,5	109,0	106,2	112,7	108,5	-3,7
Parts and accessories	4,03	110,1	113,6	110,5	111,7	108,3	-3,0
Other transport equipment	1,32	92,7	91,9	86,5	87,7	86,7	-1,1
<b>Furniture and other manufacturing</b>	<b>4,17</b>	<b>88,4</b>	<b>89,8</b>	<b>90,0</b>	<b>85,9</b>	<b>88,4</b>	<b>2,9</b>
Furniture	0,69	90,1	92,6	93,7	90,7	96,0	5,8
Other manufacturing groups	3,48	88,0	89,2	89,2	84,9	86,9	2,4
<b>Total</b>	<b>100</b>	<b>93,6</b>	<b>94,5</b>	<b>93,0</b>	<b>93,4</b>	<b>92,9</b>	<b>-0,5</b>

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

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

Month	2017	2018	2019	2020	2021	2022	2023 <sup>1</sup>
Jan	161 326	168 405	184 367	183 792	180 331	204 747	224 556
Feb	176 230	187 805	199 110	203 921	208 150	231 366	251 334
Mar	197 373	199 906	217 518	203 878	240 394	261 866	293 633
Apr	171 351	179 170	206 463	98 652	217 839	225 651	254 968
May	194 792	208 652	216 544	146 780	223 726	251 557	272 232
Jun	198 191	208 167	216 629	179 335	230 146	253 134	275 647
Jul	189 719	211 387	220 618	193 289	199 186	247 382	270 159
Aug	201 775	218 759	229 429	199 602	221 163	258 747	288 239
Sep	203 735	222 257	220 821	214 935	233 199	275 555	293 111
Oct	213 493	240 466	240 720	235 300	231 408	267 185	
Nov	231 283	244 716	238 778	239 432	259 583	288 469	
Dec	188 321	197 482	191 072	197 868	218 714	238 243	
<b>Total</b>	<b>2 327 589</b>	<b>2 487 172</b>	<b>2 582 069</b>	<b>2 296 784</b>	<b>2 663 839</b>	<b>3 003 902</b>	

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

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

Month	2018	2019	2020	2021	2022	2023	2023 year-to-date
Jan	4,4	9,5	-0,3	-1,9	13,5	9,7	9,7
Feb	6,6	6,0	2,4	2,1	11,2	8,6	9,1
Mar	1,3	8,8	-6,3	17,9	8,9	12,1	10,3
Apr	4,6	15,2	-52,2	120,8	3,6	13,0	10,9
May	7,1	3,8	-32,2	52,4	12,4	8,2	10,3
Jun	5,0	4,1	-17,2	28,3	10,0	8,9	10,1
Jul	11,4	4,4	-12,4	3,1	24,2	9,2	10,0
Aug	8,4	4,9	-13,0	10,8	17,0	11,4	10,1
Sep	9,1	-0,6	-2,7	8,5	18,2	6,4	9,7
Oct	12,6	0,1	-2,3	-1,7	15,5		
Nov	5,8	-2,4	0,3	8,4	11,1		
Dec	4,9	-3,2	3,6	10,5	8,9		
<b>Total</b>	<b>6,9</b>	<b>3,8</b>	<b>-11,0</b>	<b>16,0</b>	<b>12,8</b>		

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

Month	R million				Month-on-month % change			
	2020	2021	2022	2023	2020	2021	2022	2023
Jan	212 421	212 341	242 056	262 188	3,0	-0,8	3,3	0,1
Feb	216 380	221 035	246 653	267 671	1,9	4,1	1,9	2,1
Mar	198 863	230 949	249 930	277 918	-8,1	4,5	1,3	3,8
Apr	105 179	230 414	240 639	277 054	-47,1	-0,2	-3,7	-0,3
May	147 282	226 472	251 092	269 680	40,0	-1,7	4,3	-2,7
Jun	175 923	225 601	248 854	268 854	19,4	-0,4	-0,9	-0,3
Jul	189 144	198 251	248 449	273 177	7,5	-12,1	-0,2	1,6
Aug	197 195	216 904	251 008	279 535	4,3	9,4	1,0	2,3
Sep	205 797	223 455	261 484	280 439	4,4	3,0	4,2	0,3
Oct	213 446	213 507	249 358		3,7	-4,5	-4,6	
Nov	214 742	230 401	256 517		0,6	7,9	2,9	
Dec	213 996	234 261	261 848		-0,3	1,7	2,1	

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

<b>Manufacturing division and major group</b>	<b>Apr-23</b>	<b>May-23</b>	<b>Jun-23</b>	<b><sup>1</sup> Jul-23</b>	<b><sup>1</sup> Aug-23</b>	<b><sup>1</sup> Sep-23</b>
<b>Food and beverages</b>	<b>63 178</b>	<b>65 447</b>	<b>60 190</b>	<b>59 510</b>	<b>63 045</b>	<b>65 331</b>
Meat, fish, fruit, etc.	16 697	19 147	19 227	18 967	19 415	19 793
Dairy products	5 714	6 140	5 711	5 545	5 889	5 896
Grain mill products	11 545	12 533	12 222	11 875	11 799	11 764
Other food products	14 708	12 823	8 967	9 919	11 153	10 427
Beverages	14 514	14 805	14 064	13 204	14 789	17 451
<b>Textiles, clothing, leather and footwear</b>	<b>5 772</b>	<b>6 287</b>	<b>6 255</b>	<b>6 465</b>	<b>6 540</b>	<b>6 945</b>
Textiles	849	1 077	1 012	950	1 041	1 048
Other textile products	1 659	1 740	1 822	1 751	1 750	2 167
Knitted, crocheted articles	199	225	204	238	283	289
Wearing apparel	1 853	1 932	1 865	2 058	1 956	1 977
Leather and leather products	454	508	523	540	516	560
Footwear	758	804	828	927	994	905
<b>Wood and wood products, paper, publishing and printing</b>	<b>14 522</b>	<b>16 518</b>	<b>17 815</b>	<b>17 945</b>	<b>19 161</b>	<b>20 119</b>
Sawmilling and planing of wood	1 377	1 478	1 505	1 531	1 645	1 584
Products of wood	1 929	2 281	2 140	2 394	2 420	2 527
Paper and paper products	7 230	8 399	9 492	9 236	9 189	10 301
Publishing	1 361	1 568	1 759	1 833	2 504	2 225
Printing, recorded media	2 626	2 792	2 920	2 951	3 403	3 482
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>53 786</b>	<b>53 551</b>	<b>57 121</b>	<b>52 726</b>	<b>62 500</b>	<b>65 076</b>
Coke, petroleum products and nuclear fuel	20 815	16 472	20 572	18 007	23 211	23 088
Basic chemicals	10 590	11 086	11 218	9 557	12 601	12 926
Other chemical products	13 469	15 687	15 408	14 547	15 654	18 860
Rubber products	1 833	2 010	2 003	2 174	2 271	2 003
Plastic products	7 080	8 295	7 920	8 441	8 763	8 199
<b>Glass and non-metallic mineral products</b>	<b>6 840</b>	<b>7 620</b>	<b>7 289</b>	<b>7 601</b>	<b>7 916</b>	<b>7 875</b>
Glass and glass products	1 371	1 416	1 411	1 358	1 512	1 510
Non-metallic mineral products	5 469	6 204	5 878	6 243	6 404	6 365
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>54 787</b>	<b>61 643</b>	<b>62 417</b>	<b>57 701</b>	<b>61 512</b>	<b>59 074</b>
Basic iron and steel products	14 207	13 138	14 995	13 565	14 283	12 297
Non-ferrous metal products	15 067	17 625	15 805	14 354	14 171	15 661
Structural metal products	4 015	4 357	4 313	4 358	5 013	4 506
Other fabricated metal products	7 865	10 122	10 294	9 565	10 272	9 054
General purpose machinery	5 595	6 461	6 581	5 651	6 731	6 449
Special purpose machinery	6 679	8 485	8 960	8 772	9 563	9 583
Household appliances	1 359	1 454	1 468	1 436	1 479	1 524
<b>Electrical machinery</b>	<b>6 502</b>	<b>7 692</b>	<b>7 616</b>	<b>7 890</b>	<b>7 073</b>	<b>7 508</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 196</b>	<b>2 349</b>	<b>2 362</b>	<b>2 228</b>	<b>2 401</b>	<b>2 578</b>
Radio, television and communication apparatus	985	929	966	1 050	1 165	1 317
Professional equipment	1 211	1 420	1 396	1 178	1 236	1 261
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>37 137</b>	<b>40 540</b>	<b>43 903</b>	<b>47 049</b>	<b>47 518</b>	<b>47 453</b>
Motor vehicles	23 266	23 317	26 696	29 673	28 431	29 301
Bodies for motor vehicles, trailers and semi-trailers	1 445	1 938	2 003	1 792	1 947	1 913
Parts and accessories	9 939	12 572	12 350	13 066	14 438	13 108
Other transport equipment	2 486	2 713	2 854	2 518	2 701	3 131
<b>Furniture and other manufacturing</b>	<b>10 247</b>	<b>10 585</b>	<b>10 678</b>	<b>11 046</b>	<b>10 572</b>	<b>11 153</b>
Furniture	1 556	1 622	1 671	1 635	1 753	1 946
Other manufacturing groups	8 691	8 963	9 007	9 411	8 820	9 207
<b>Total</b>	<b>254 968</b>	<b>272 232</b>	<b>275 647</b>	<b>270 159</b>	<b>288 239</b>	<b>293 111</b>

<sup>1</sup> 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-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
<b>Food and beverages</b>	<b>15,0</b>	<b>14,7</b>	<b>4,1</b>	<b>5,1</b>	<b>2,0</b>	<b>-1,6</b>
Meat, fish, fruit, etc.	0,4	7,5	8,4	9,7	5,5	2,9
Dairy products	36,3	43,9	29,2	17,6	13,5	5,7
Grain mill products	20,7	22,4	16,2	11,3	8,9	6,9
Other food products	37,5	29,0	-13,6	-6,5	-10,0	-10,0
Beverages	4,8	0,2	-4,8	-1,1	-1,4	-8,2
<b>Textiles, clothing, leather and footwear</b>	<b>13,3</b>	<b>10,6</b>	<b>19,2</b>	<b>12,0</b>	<b>8,2</b>	<b>7,1</b>
Textiles	6,9	24,8	22,2	14,5	18,0	13,1
Other textile products	9,8	10,8	16,6	5,9	2,7	13,3
Knitted, crocheted articles	24,4	-1,3	-1,4	13,9	22,0	9,1
Wearing apparel	11,3	3,0	28,6	24,6	7,6	2,6
Leather and leather products	14,6	-2,5	5,4	-10,6	-2,3	-8,9
Footwear	33,2	28,6	17,6	12,5	12,7	8,1
<b>Wood and wood products, paper, publishing and printing</b>	<b>17,4</b>	<b>27,4</b>	<b>14,0</b>	<b>18,1</b>	<b>11,4</b>	<b>1,6</b>
Sawmilling and planing of wood	32,7	33,6	29,7	9,5	14,0	16,5
Products of wood	10,8	26,0	12,0	14,7	13,0	12,6
Paper and paper products	21,5	34,2	14,6	24,7	9,5	-3,8
Publishing	15,7	22,9	33,2	33,4	28,0	1,0
Printing, recorded media	6,4	11,1	-1,1	0,5	4,5	5,7
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>18,1</b>	<b>-2,1</b>	<b>3,5</b>	<b>9,9</b>	<b>20,7</b>	<b>19,2</b>
Coke, petroleum products and nuclear fuel	48,1	-4,9	12,8	36,9	59,3	49,6
Basic chemicals	11,0	-7,2	0,2	-13,6	9,0	7,2
Other chemical products	5,9	0,2	0,5	8,9	8,7	21,9
Rubber products	-0,1	24,1	4,3	25,7	21,8	1,3
Plastic products	-4,4	1,5	-6,9	-2,7	-6,5	-15,2
<b>Glass and non-metallic mineral products</b>	<b>16,4</b>	<b>3,5</b>	<b>1,6</b>	<b>6,2</b>	<b>2,9</b>	<b>-1,8</b>
Glass and glass products	12,4	0,0	2,7	3,5	-7,1	-7,6
Non-metallic mineral products	17,4	4,4	1,3	6,8	5,5	-0,3
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>1,6</b>	<b>-1,0</b>	<b>-1,8</b>	<b>0,1</b>	<b>5,4</b>	<b>0,5</b>
Basic iron and steel products	6,7	-15,4	-12,6	-2,1	4,4	-7,6
Non-ferrous metal products	-17,7	-12,2	-16,8	-18,3	-14,1	-7,3
Structural metal products	31,2	20,2	-0,4	16,7	15,5	-4,0
Other fabricated metal products	3,9	16,7	13,4	10,7	9,5	-5,7
General purpose machinery	32,3	16,8	18,7	1,7	15,8	6,3
Special purpose machinery	6,7	12,2	25,5	25,1	29,9	38,7
Household appliances	15,1	12,4	12,1	14,3	14,3	13,5
<b>Electrical machinery</b>	<b>13,5</b>	<b>29,1</b>	<b>29,5</b>	<b>30,8</b>	<b>16,2</b>	<b>13,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>17,9</b>	<b>10,1</b>	<b>2,8</b>	<b>-2,6</b>	<b>-2,7</b>	<b>-2,5</b>
Radio, television and communication apparatus	32,9	13,4	2,4	7,6	7,0	7,7
Professional equipment	7,8	8,1	3,1	-10,2	-10,4	-11,3
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>18,6</b>	<b>23,8</b>	<b>38,9</b>	<b>21,0</b>	<b>24,8</b>	<b>12,3</b>
Motor vehicles	20,4	16,9	46,7	17,6	22,2	17,3
Bodies for motor vehicles, trailers and semi-trailers	-0,4	13,3	-3,1	-3,5	7,5	1,1
Parts and accessories	22,2	48,2	43,4	41,0	39,6	9,4
Other transport equipment	3,2	4,0	4,4	-0,5	2,5	-8,2
<b>Furniture and other manufacturing</b>	<b>13,9</b>	<b>-0,7</b>	<b>22,5</b>	<b>12,7</b>	<b>14,6</b>	<b>12,6</b>
Furniture	23,3	10,8	16,6	18,7	23,5	26,5
Other manufacturing groups	12,4	-2,5	23,7	11,8	13,0	10,0
<b>Total</b>	<b>13,0</b>	<b>8,2</b>	<b>8,9</b>	<b>9,2</b>	<b>11,4</b>	<b>6,4</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-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
<b>Food and beverages</b>	<b>3,7</b>	<b>3,3</b>	<b>0,9</b>	<b>1,2</b>	<b>0,5</b>	<b>-0,4</b>
Meat, fish, fruit, etc.	0,0	0,5	0,6	0,7	0,4	0,2
Dairy products	0,7	0,7	0,5	0,3	0,3	0,1
Grain mill products	0,9	0,9	0,7	0,5	0,4	0,3
Other food products	1,8	1,1	-0,6	-0,3	-0,5	-0,4
Beverages	0,3	0,0	-0,3	-0,1	-0,1	-0,6
<b>Textiles, clothing, leather and footwear</b>	<b>0,3</b>	<b>0,2</b>	<b>0,4</b>	<b>0,3</b>	<b>0,2</b>	<b>0,2</b>
Textiles	0,0	0,1	0,1	0,0	0,1	0,0
Other textile products	0,1	0,1	0,1	0,0	0,0	0,1
Knitted, crocheted articles	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	0,1	0,0	0,2	0,2	0,1	0,0
Leather and leather products	0,0	0,0	0,0	0,0	0,0	0,0
Footwear	0,1	0,1	0,0	0,0	0,0	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>1,0</b>	<b>1,4</b>	<b>0,9</b>	<b>1,1</b>	<b>0,8</b>	<b>0,1</b>
Sawmilling and planing of wood	0,2	0,1	0,1	0,1	0,1	0,1
Products of wood	0,1	0,2	0,1	0,1	0,1	0,1
Paper and paper products	0,6	0,9	0,5	0,7	0,3	-0,1
Publishing	0,1	0,1	0,2	0,2	0,2	0,0
Printing, recorded media	0,1	0,1	0,0	0,0	0,1	0,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>3,7</b>	<b>-0,5</b>	<b>0,8</b>	<b>1,9</b>	<b>4,1</b>	<b>3,8</b>
Coke, petroleum products and nuclear fuel	3,0	-0,3	0,9	2,0	3,3	2,8
Basic chemicals	0,5	-0,3	0,0	-0,6	0,4	0,3
Other chemical products	0,3	0,0	0,0	0,5	0,5	1,2
Rubber products	0,0	0,2	0,0	0,2	0,2	0,0
Plastic products	-0,1	0,0	-0,2	-0,1	-0,2	-0,5
<b>Glass and non-metallic mineral products</b>	<b>0,4</b>	<b>0,1</b>	<b>0,0</b>	<b>0,2</b>	<b>0,1</b>	<b>-0,1</b>
Glass and glass products	0,1	0,0	0,0	0,0	0,0	0,0
Non-metallic mineral products	0,4	0,1	0,0	0,2	0,1	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>0,4</b>	<b>-0,2</b>	<b>-0,5</b>	<b>0,0</b>	<b>1,2</b>	<b>0,1</b>
Basic iron and steel products	0,4	-1,0	-0,9	-0,1	0,2	-0,4
Non-ferrous metal products	-1,4	-1,0	-1,3	-1,3	-0,9	-0,4
Structural metal products	0,4	0,3	0,0	0,3	0,3	-0,1
Other fabricated metal products	0,1	0,6	0,5	0,4	0,3	-0,2
General purpose machinery	0,6	0,4	0,4	0,0	0,4	0,1
Special purpose machinery	0,2	0,4	0,7	0,7	0,9	1,0
Household appliances	0,1	0,1	0,1	0,1	0,1	0,1
<b>Electrical machinery</b>	<b>0,3</b>	<b>0,7</b>	<b>0,7</b>	<b>0,8</b>	<b>0,4</b>	<b>0,3</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>0,1</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	0,1	0,0	0,0	0,0	0,0	0,0
Professional equipment	0,0	0,0	0,0	-0,1	-0,1	-0,1
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>2,6</b>	<b>3,1</b>	<b>4,9</b>	<b>3,3</b>	<b>3,6</b>	<b>1,9</b>
Motor vehicles	1,7	1,3	3,4	1,8	2,0	1,6
Bodies for motor vehicles, trailers and semi-trailers	0,0	0,1	0,0	0,0	0,1	0,0
Parts and accessories	0,8	1,6	1,5	1,5	1,6	0,4
Other transport equipment	0,0	0,0	0,0	0,0	0,0	-0,1
<b>Furniture and other manufacturing</b>	<b>0,6</b>	<b>0,0</b>	<b>0,8</b>	<b>0,5</b>	<b>0,5</b>	<b>0,5</b>
Furniture	0,1	0,1	0,1	0,1	0,1	0,1
Other manufacturing groups	0,4	-0,1	0,7	0,4	0,4	0,3
<b>Total</b>	<b>13,0</b>	<b>8,2</b>	<b>8,9</b>	<b>9,2</b>	<b>11,4</b>	<b>6,4</b>

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

Manufacturing division and major group	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Month-on-month % change
<b>Food and beverages</b>	<b>66 740</b>	<b>62 304</b>	<b>63 728</b>	<b>62 409</b>	<b>63 542</b>	<b>1,8</b>
Meat, fish, fruit, etc.	18 966	19 223	19 574	19 124	19 269	0,8
Dairy products	6 406	6 118	5 929	5 857	5 755	-1,7
Grain mill products	12 170	12 122	11 828	11 656	11 751	0,8
Other food products	12 999	9 026	10 141	9 963	10 375	4,1
Beverages	16 199	15 815	16 255	15 809	16 391	3,7
<b>Textiles, clothing, leather and footwear</b>	<b>6 294</b>	<b>6 302</b>	<b>6 340</b>	<b>6 308</b>	<b>6 425</b>	<b>1,9</b>
Textiles	985	981	970	997	980	-1,7
Other textile products	1 758	1 788	1 822	1 816	1 981	9,1
Knitted, crocheted articles	210	212	235	248	245	-1,2
Wearing apparel	1 979	1 967	1 951	1 868	1 870	0,1
Leather and leather products	501	520	503	523	504	-3,6
Footwear	861	832	858	857	844	-1,5
<b>Wood and wood products, paper, publishing and printing</b>	<b>17 529</b>	<b>17 583</b>	<b>18 401</b>	<b>17 910</b>	<b>17 687</b>	<b>-1,2</b>
Sawmilling and planing of wood	1 468	1 433	1 442	1 489	1 502	0,9
Products of wood	2 348	2 076	2 291	2 233	2 282	2,2
Paper and paper products	8 768	9 003	9 637	8 969	8 939	-0,3
Publishing	1 869	1 950	2 024	2 073	1 805	-12,9
Printing, recorded media	3 075	3 120	3 007	3 145	3 158	0,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>51 932</b>	<b>54 017</b>	<b>54 924</b>	<b>60 582</b>	<b>62 351</b>	<b>2,9</b>
Coke, petroleum products and nuclear fuel	15 412	18 074	19 088	22 550	23 384	3,7
Basic chemicals	10 979	11 043	10 178	12 095	11 955	-1,2
Other chemical products	15 222	14 975	15 098	15 478	17 542	13,3
Rubber products	2 032	1 878	2 135	2 177	1 916	-12,0
Plastic products	8 287	8 047	8 425	8 282	7 554	-8,8
<b>Glass and non-metallic mineral products</b>	<b>7 235</b>	<b>7 066</b>	<b>7 433</b>	<b>7 346</b>	<b>7 324</b>	<b>-0,3</b>
Glass and glass products	1 462	1 471	1 453	1 428	1 420	-0,6
Non-metallic mineral products	5 772	5 595	5 979	5 919	5 905	-0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>58 563</b>	<b>58 301</b>	<b>58 297</b>	<b>60 070</b>	<b>57 663</b>	<b>-4,0</b>
Basic iron and steel products	12 709	13 484	13 959	14 167	12 308	-13,1
Non-ferrous metal products	16 588	15 173	14 915	15 006	16 042	6,9
Structural metal products	4 325	3 847	4 314	4 606	4 119	-10,6
Other fabricated metal products	9 550	9 689	9 467	9 429	8 455	-10,3
General purpose machinery	6 022	6 096	5 622	6 220	5 959	-4,2
Special purpose machinery	7 967	8 600	8 553	9 160	9 286	1,4
Household appliances	1 402	1 412	1 466	1 481	1 494	0,9
<b>Electrical machinery</b>	<b>7 397</b>	<b>7 496</b>	<b>7 860</b>	<b>6 881</b>	<b>7 120</b>	<b>3,5</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 474</b>	<b>2 424</b>	<b>2 380</b>	<b>2 407</b>	<b>2 408</b>	<b>0,0</b>
Radio, television and communication apparatus	1 111	1 095	1 155	1 158	1 181	2,0
Professional equipment	1 363	1 329	1 225	1 248	1 226	-1,8
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>41 124</b>	<b>42 770</b>	<b>43 074</b>	<b>45 084</b>	<b>45 195</b>	<b>0,2</b>
Motor vehicles	23 940	25 405	26 011	27 022	27 640	2,3
Bodies for motor vehicles, trailers and semi-trailers	1 827	1 728	1 687	1 807	1 767	-2,2
Parts and accessories	12 429	12 736	12 604	13 436	12 987	-3,3
Other transport equipment	2 928	2 901	2 771	2 820	2 802	-0,6
<b>Furniture and other manufacturing</b>	<b>10 393</b>	<b>10 592</b>	<b>10 740</b>	<b>10 537</b>	<b>10 725</b>	<b>1,8</b>
Furniture	1 639	1 687	1 645	1 695	1 694	-0,1
Other manufacturing groups	8 754	8 904	9 095	8 842	9 031	2,1
<b>Total</b>	<b>269 680</b>	<b>268 854</b>	<b>273 177</b>	<b>279 535</b>	<b>280 439</b>	<b>0,3</b>

## Survey information

<b>Introduction</b>	<p><b>1</b> 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 statistical business register (SBR), with enhanced coverage of South African businesses (see point 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.</p> <p><b>2</b> 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 2019. Both estimated and seasonally adjusted figures are presented.</p> <p><b>3</b> 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.</p> <p><b>4</b> Stats SA is continuously updating its SBR, based on units registered for value-added tax (VAT) and income tax (IT) obtained from the South African Revenue Service (SARS).</p>
<b>Purpose of the survey</b>	<p><b>5</b> 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.</p>
<b>Special Data Dissemination Standard of the IMF</b>	<p><b>6</b> 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.</p>
<b>Scope of the survey</b>	<p><b>7</b> This survey covers manufacturing enterprises, i.e. those conducting activities in:</p> <ul style="list-style-type: none"> <li>• the manufacturing, processing, making or packing of products;</li> <li>• the slaughtering of animals, including poultry; and</li> <li>• installation, assembly, completion, repair and related work.</li> </ul>
<b>Classification</b>	<p><b>8</b> The 1993 edition of the <i>Standard Industrial Classification of All Economic Activities</i> (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of All Economic Activities</i> (ISIC) with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two-digit) and major group (three-digit) level.</p>
<b>Collection rate</b>	<p><b>9</b> The preliminary collection rate for the survey on manufacturing production and sales was 64,7% for September 2023. The improved collection rate for August 2023 was 67,7%.</p>
<b>Statistical unit</b>	<p><b>10</b> 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.</p>
<b>Revised figures</b>	<p><b>11</b> 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.</p>
<b>Related publications</b>	<p><b>12</b> Users may also wish to refer to <i>Stats in Brief</i> available from Stats SA.</p>

- 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 3 261 enterprises from a population of 31 501 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 2023 from Stats SA's statistical business register (SBR). 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 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 groups 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 groups 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 limit	Upper limit
Very small	4	2 248 526	17 500 000
Small	3	20 400 001	52 000 000
Medium	2	52 000 001	204 000 000
Large	1	204 000 001	

- 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 2019. 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 producer 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 2023	National accounts

- 9 The weights reflect the importance of the major group/division to the total manufacturing industry. The weights change over time due to changes in the relative performance of industries, due to factors such as quality changes, changes in relative prices, and changes in customer preferences. New weights are calculated and implemented annually.

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

Manufacturing division and major group	Weights used for manufacturing indices by period			
	2017 (based on value added for 2015 – 2017)	2018 (based on value added for 2016 – 2018)	2019 (based on value added for 2017 – 2019)	2020 – 2023 (based on value added for 2018 – 2020)
<b>Food and beverages</b>	<b>19,76</b>	<b>20,18</b>	<b>20,75</b>	<b>21,44</b>
Meat, fish, fruit, etc.	2,74	2,95	3,27	3,42
Dairy products	1,32	1,34	1,39	1,47
Grain mill products	1,81	1,69	1,68	1,85
Other food products	7,53	7,76	7,75	7,81
Beverages	6,36	6,44	6,66	6,89
<b>Textiles, clothing, leather and footwear</b>	<b>4,44</b>	<b>4,38</b>	<b>4,26</b>	<b>4,07</b>
Textiles	1,11	1,10	1,08	1,04
Other textile products	0,67	0,65	0,61	0,58
Knitted, crocheted articles	0,06	0,06	0,06	0,06
Wearing apparel	2,07	2,04	1,98	1,88
Leather and leather products	0,28	0,28	0,27	0,26
Footwear	0,25	0,25	0,25	0,25
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,76</b>	<b>10,77</b>	<b>10,63</b>	<b>10,48</b>
Sawmilling and planing of wood	0,93	0,93	0,87	0,86
Products of wood	0,86	0,87	0,88	0,90
Paper and paper products	5,33	5,39	5,34	5,26
Publishing	2,28	2,24	2,18	2,10
Printing, recorded media	1,36	1,34	1,35	1,36
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>25,25</b>	<b>25,38</b>	<b>24,95</b>	<b>24,86</b>
Coke, petroleum products and nuclear fuel	11,72	12,02	11,85	11,92
Basic chemicals	3,82	3,69	3,50	3,39
Other chemical products	6,42	6,54	6,64	6,82
Rubber products	0,91	0,84	0,76	0,68
Plastic products	2,38	2,29	2,20	2,05
<b>Glass and non-metallic mineral products</b>	<b>3,66</b>	<b>3,42</b>	<b>3,24</b>	<b>3,10</b>
Glass and glass products	0,57	0,51	0,49	0,48
Non-metallic mineral products	3,09	2,91	2,75	2,62
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>19,55</b>	<b>19,47</b>	<b>19,73</b>	<b>19,96</b>
Basic iron and steel products	2,77	2,82	2,92	2,92
Non-ferrous metal products (including precious metals)	3,48	3,26	3,32	3,54
Structural metal products	1,97	1,98	1,99	2,01
Other fabricated metal products	3,32	3,35	3,53	3,65
General purpose machinery	3,36	3,46	3,42	3,45
Special purpose machinery	3,93	3,87	3,85	3,73
Household appliances	0,71	0,73	0,70	0,66
<b>Electrical machinery</b>	<b>2,42</b>	<b>2,31</b>	<b>2,21</b>	<b>2,14</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,34</b>	<b>1,21</b>	<b>1,07</b>	<b>1,06</b>
Radio, television and communication apparatus	0,29	0,13	0,04	0,03
Professional equipment	1,05	1,08	1,03	1,03
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,56</b>	<b>8,66</b>	<b>8,89</b>	<b>8,72</b>
Motor vehicles	2,61	2,65	2,78	2,62
Bodies for motor vehicles, trailers and semi-trailers	0,68	0,71	0,73	0,75
Parts and accessories	3,91	3,93	3,97	4,03
Other transport equipment	1,36	1,37	1,40	1,32
<b>Furniture and other manufacturing</b>	<b>4,26</b>	<b>4,21</b>	<b>4,27</b>	<b>4,17</b>
Furniture	0,91	0,86	0,78	0,69
Other manufacturing groups	3,35	3,35	3,49	3,48
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Seasonal adjustment** 10 Seasonally adjusted estimates are generated each month, using the X-12 Seasonal Adjustment Program developed by the United States Census Bureau. 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. This means 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 Manufacturing seasonal adjustment February 2022.](#)

**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.

**Relative standard error** 14 One measure of the likely difference is given by the standard error (SE), which indicates the extent to which an estimate might have varied by chance because only a sample of enterprises was used. The relative standard error (RSE) provides an immediate indication of the percentage errors likely to have occurred due to sampling, and thus avoids the need to refer to the size of the estimate.

**Estimates of total industry sales within 95% confidence limits – September 2023**

	Lower limit (R million)	Estimate (R million)	Upper limit (R million)	Relative standard error (RSE) %
Total sales	289 480	293 111	296 742	0,6

**Month-on-month percentage change** 15 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** 16 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)** 17 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)** 18 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, assembly or other services rendered.

### Symbols and abbreviations

GDP	Gross domestic product
IMF	International Monetary Fund
ISIC	International Standard Industrial Classification
LSS	Large sample survey
NA	National accounts
PPI	Producer price index
SARS	South African Revenue Service
SBR	Statistical business register
SDDS	Special Data Dissemination Standard
SIC	Standard Industrial Classification of All Economic Activities
Stats SA	Statistics South Africa
VAT	Value-added tax
*	Revised figures

## Technical enquiries

### Nicolai Claassen

Telephone number: (012) 310 8007 / 072 310 5351  
Email: [nicolaic@statssa.gov.za](mailto:nicolaic@statssa.gov.za)



## General information

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's 12 official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English.

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

## Advance release calendar

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

## Stats SA products

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

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

Stats SA also provides a subscription service.

## Electronic services

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

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

## General enquiries

User information services	Telephone number: (012) 310 8600 Email address: <a href="mailto:info@statssa.gov.za">info@statssa.gov.za</a>
Orders/subscription services	Telephone number: (012) 310 8619 Email address: <a href="mailto:millies@statssa.gov.za">millies@statssa.gov.za</a>
Postal address	Private Bag X44, Pretoria, 0001

*Produced by Stats SA*