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## **STATISTICAL RELEASE**

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# Manufacturing: Production and sales (Preliminary)

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## Production: results for May 2023

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

	<b>Dec-22</b>	<b>Jan-23</b>	<b>Feb-23</b>	<b>Mar-23</b>	<b>Apr-23</b>	<b>May-23</b>
Year-on-year % change, unadjusted	-4,6	-4,1	-5,5	-1,7	3,6	2,5
Month-on-month % change, seasonally adjusted	0,3	0,5	-1,7	3,8	0,7	-1,3
3-month % change, seasonally adjusted <sup>1</sup>	-1,6	-0,9	-1,1	1,3	1,4	2,8

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

Manufacturing production increased by 2,5% in May 2023 compared with May 2022. The largest contributions were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (15,1% and contributing 1,4 percentage points); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (5,8% and contributing 1,2 percentage points) – see Tables 5 and 6.

Seasonally adjusted manufacturing production decreased by 1,3% in May 2023 compared with April 2023. This followed month-on-month changes of 0,7% in April 2023 and 3,8% in March 2023 – see Table A.

Seasonally adjusted manufacturing production increased by 2,8% in the three months ended May 2023 compared with the previous three months. Seven of the ten manufacturing divisions reported positive growth rates over this period.

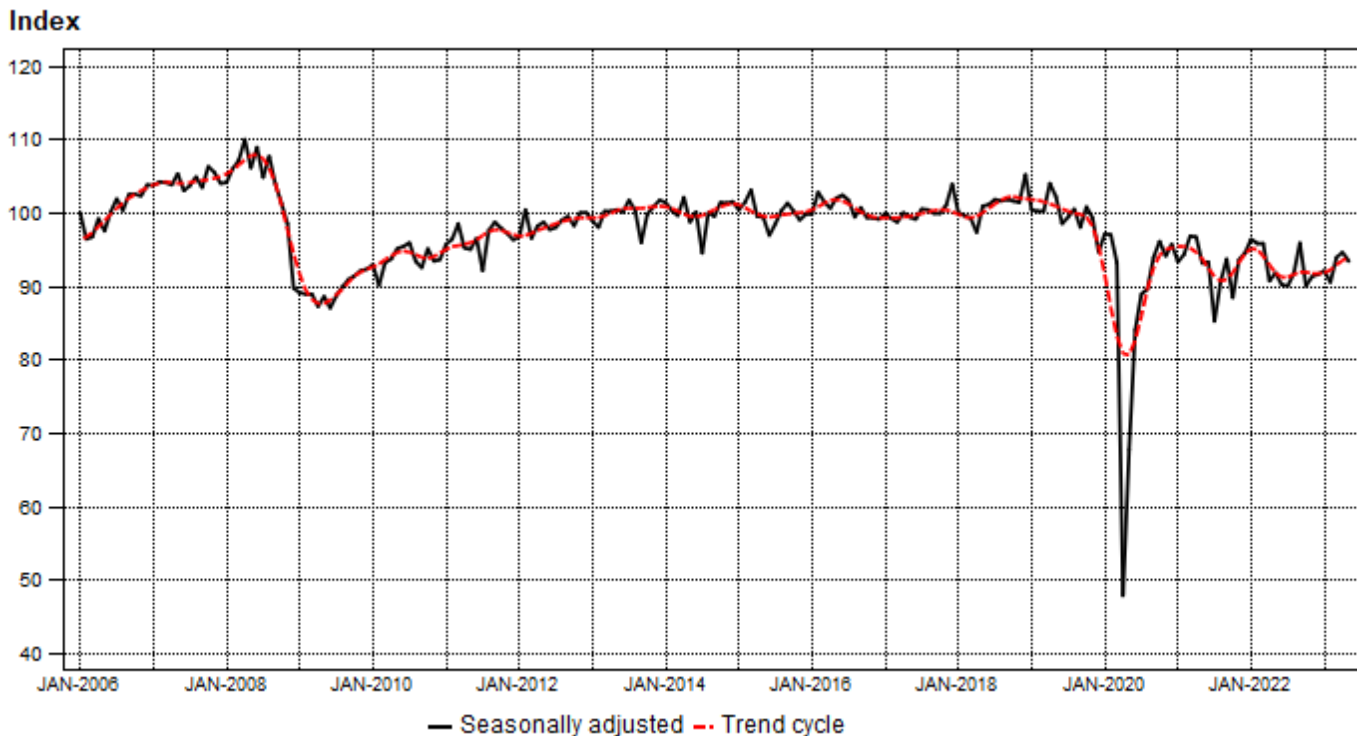
The largest contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (6,9% and contributing 1,4 percentage points); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (4,6% and contributing 0,9 of a percentage point) – see Table B.

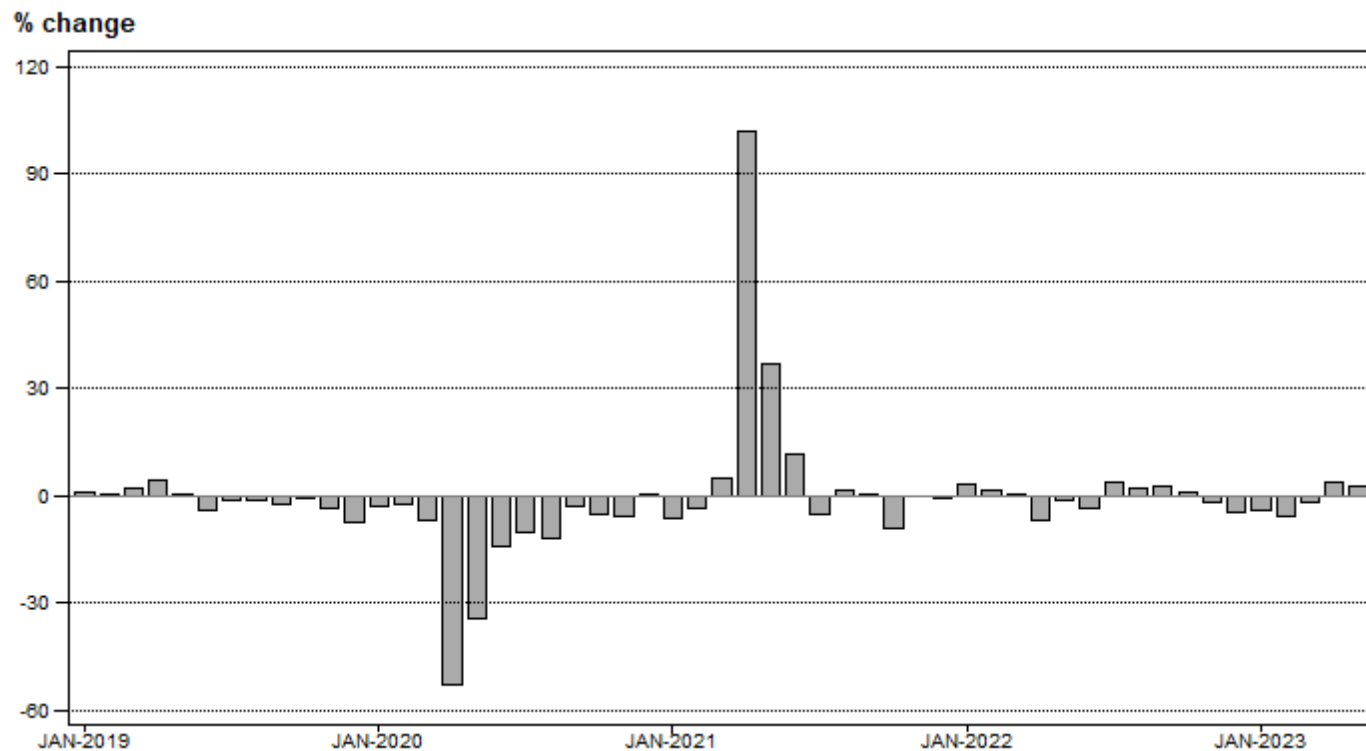
**Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2019=100)**

Manufacturing division and major group	Weight	Dec 2022 – Feb 2023	Mar – May 2023	% change between Dec 2022 – Feb 2023 and Mar – May 2023	Contribution (% points) to the total % change
<b>Food and beverages</b>	<b>20,75</b>	<b>101,8</b>	<b>103,0</b>	<b>1,2</b>	<b>0,3</b>
Meat, fish, fruit, etc.	3,27	107,6	106,8	-0,7	0,0
Dairy products	1,39	100,2	105,4	5,2	0,1
Grain mill products	1,68	100,1	103,7	3,6	0,1
Other food products	7,75	95,2	93,4	-1,9	-0,2
Beverages	6,66	107,5	111,5	3,7	0,3
<b>Textiles, clothing, leather and footwear</b>	<b>4,26</b>	<b>92,3</b>	<b>91,5</b>	<b>-0,9</b>	<b>0,0</b>
Textiles	1,08	101,2	101,9	0,7	0,0
Other textile products	0,61	94,6	88,8	-6,1	0,0
Knitted, crocheted articles	0,06	82,6	82,0	-0,7	0,0
Wearing apparel	1,98	86,9	86,9	0,0	0,0
Leather and leather products	0,27	83,1	79,5	-4,3	0,0
Footwear	0,25	102,5	105,1	2,5	0,0
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,63</b>	<b>90,4</b>	<b>91,3</b>	<b>1,0</b>	<b>0,1</b>
Sawmilling and planing of wood	0,87	97,5	89,8	-7,9	-0,1
Products of wood	0,88	107,4	105,9	-1,4	0,0
Paper and paper products	5,34	90,0	93,8	4,2	0,2
Publishing	2,18	79,9	78,5	-1,8	0,0
Printing, recorded media	1,35	93,3	93,6	0,3	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,95</b>	<b>75,3</b>	<b>80,5</b>	<b>6,9</b>	<b>1,4</b>
Coke, petroleum products and nuclear fuel	11,85	53,0	63,0	18,9	1,3
Basic chemicals	3,50	100,2	102,2	2,0	0,1
Other chemical products	6,64	90,7	91,6	1,0	0,1
Rubber products	0,76	96,3	95,2	-1,1	0,0
Plastic products	2,20	101,6	101,7	0,1	0,0
<b>Glass and non-metallic mineral products</b>	<b>3,24</b>	<b>105,1</b>	<b>98,4</b>	<b>-6,4</b>	<b>-0,2</b>
Glass and glass products	0,49	104,9	106,2	1,2	0,0
Non-metallic mineral products	2,75	105,1	97,0	-7,7	-0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>19,73</b>	<b>94,0</b>	<b>98,3</b>	<b>4,6</b>	<b>0,9</b>
Basic iron and steel products	2,92	79,4	85,0	7,1	0,2
Non-ferrous metal products	3,32	87,5	87,0	-0,6	0,0
Structural metal products	1,99	100,6	103,1	2,5	0,1
Other fabricated metal products	3,53	96,5	101,1	4,8	0,2
General purpose machinery	3,42	105,2	112,5	6,9	0,3
Special purpose machinery	3,85	95,0	99,8	5,1	0,2
Household appliances	0,70	94,7	101,9	7,6	0,1
<b>Electrical machinery</b>	<b>2,21</b>	<b>101,2</b>	<b>105,3</b>	<b>4,1</b>	<b>0,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,07</b>	<b>102,8</b>	<b>101,6</b>	<b>-1,2</b>	<b>0,0</b>
Radio, television and communication apparatus	0,04	92,1	95,4	3,6	0,0
Professional equipment	1,03	103,3	101,8	-1,5	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,89</b>	<b>102,1</b>	<b>102,6</b>	<b>0,5</b>	<b>0,0</b>
Motor vehicles	2,78	98,1	98,8	0,7	0,0
Bodies for motor vehicles, trailers and semi-trailers	0,73	105,9	108,5	2,5	0,0
Parts and accessories	3,97	105,3	106,8	1,4	0,1
Other transport equipment	1,40	99,1	95,4	-3,7	-0,1
<b>Furniture and other manufacturing</b>	<b>4,27</b>	<b>86,7</b>	<b>91,2</b>	<b>5,2</b>	<b>0,2</b>
Furniture	0,78	95,3	94,9	-0,4	0,0
Other manufacturing groups	3,49	84,8	90,4	6,6	0,2
<b>Total</b>	<b>100</b>	<b>91,5</b>	<b>94,1</b>	<b>2,8</b>	<b>2,8</b>

**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 May 2023

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

	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23
Year-on-year % change, unadjusted	9,0	9,8	8,6	12,2	12,9	7,5
Month-on-month % change, seasonally adjusted	2,0	0,1	1,7	3,9	-0,5	-2,7
3-month % change, seasonally adjusted <sup>1</sup>	0,8	2,4	3,0	4,9	4,9	3,8

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

Seasonally adjusted manufacturing sales decreased by 2,7% in May 2023 compared with April 2023. This followed month-on-month changes of -0,5% in April 2023 and 3,9% in March 2023 – see Table C.

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

Manufacturing division	Dec 2022 – Feb 2023 (R million)	Mar – May 2023 (R million)	% change between Dec 2022 – Feb 2023 and Mar – May 2023	Contribution (% points) to the total % change
Food and beverages	188 243	201 071	6,8	1,6
Textiles, clothing, leather and footwear	17 503	17 897	2,3	0,1
Wood and wood products, paper, publishing and printing	48 511	52 332	7,9	0,5
Petroleum, chemical products, rubber and plastic products	159 770	167 564	4,9	1,0
Glass and non-metallic mineral products	25 196	24 523	-2,7	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	165 430	169 863	2,7	0,6
Electrical machinery	18 710	20 724	10,8	0,3
Radio, television and communication apparatus and professional equipment	7 603	7 932	4,3	0,0
Motor vehicles, parts and accessories and other transport equipment	127 104	124 171	-2,3	-0,4
Furniture and other manufacturing	28 706	30 634	6,7	0,2
<b>Total</b>	<b>786 777</b>	<b>816 710</b>	<b>3,8</b>	<b>3,8</b>

Seasonally adjusted manufacturing sales increased by 3,8% in the three months ended May 2023 compared with the previous three months. The largest contributions were made by the follow divisions:

- food and beverages (6,8% and contributing 1,6 percentage points); and
- petroleum, chemical products, rubber and plastic products (4,9% and contributing 1,0 percentage point) – see Table D.

**Risenga Maluleke**  
Statistician-General

## 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	85,6	80,3	82,8	79,4
Feb	94,3	94,5	94,9	92,4	89,3	90,9	85,9
Mar	101,5	98,9	101,2	94,4	98,9	99,1	97,4
Apr	90,5	91,9	95,8	45,0	91,0	84,5	87,5
May	100,1	101,8	102,0	67,0	91,9	90,9	93,2
Jun	101,5	101,9	97,8	83,8	93,7	90,2	
Jul	100,6	103,2	101,8	91,3	86,7	90,2	
Aug	105,0	106,6	105,2	92,8	94,3	96,2	
Sep	105,4	104,9	102,6	99,3	99,8	102,5	
Oct	109,8	113,4	112,7	106,8	97,3	98,2	
Nov	114,0	115,3	111,0	104,7	104,7	102,5	
Dec	93,2	93,7	86,8	87,3	86,7	82,7	
<b>Total</b>	<b>100,1</b>	<b>101,1</b>	<b>100,0</b>	<b>87,5</b>	<b>92,9</b>	<b>92,6</b>	

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

**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	-2,7	-6,2	3,1	-4,1	-4,1
Feb	0,2	0,4	-2,6	-3,4	1,8	-5,5	-4,8
Mar	-2,6	2,3	-6,7	4,8	0,2	-1,7	-3,6
Apr	1,5	4,2	-53,0	102,2	-7,1	3,6	-1,9
May	1,7	0,2	-34,3	37,2	-1,1	2,5	-1,0
Jun	0,4	-4,0	-14,3	11,8	-3,7		
Jul	2,6	-1,4	-10,3	-5,0	4,0		
Aug	1,5	-1,3	-11,8	1,6	2,0		
Sep	-0,5	-2,2	-3,2	0,5	2,7		
Oct	3,3	-0,6	-5,2	-8,9	0,9		
Nov	1,1	-3,7	-5,7	0,0	-2,1		
Dec	0,5	-7,4	0,6	-0,7	-4,6		
<b>Total</b>	<b>1,0</b>	<b>-1,1</b>	<b>-12,5</b>	<b>6,2</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	97,2	93,4	96,5	92,2	2,6	-2,5	2,0	0,5
Feb	97,1	94,4	95,9	90,6	-0,1	1,1	-0,6	-1,7
Mar	93,3	96,9	95,9	94,0	-3,9	2,6	0,0	3,8
Apr	47,9	96,8	90,8	94,7	-48,7	-0,1	-5,3	0,7
May	67,8	93,2	91,9	93,5	41,5	-3,7	1,2	-1,3
Jun	84,1	93,4	90,3		24,0	0,2	-1,7	
Jul	89,0	85,3	90,1		5,8	-8,7	-0,2	
Aug	89,7	90,7	91,8		0,8	6,3	1,9	
Sep	94,0	93,8	96,0		4,8	3,4	4,6	
Oct	96,2	88,5	90,1		2,3	-5,7	-6,1	
Nov	94,2	93,7	91,4		-2,1	5,9	1,4	
Dec	95,8	94,6	91,7		1,7	1,0	0,3	

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

Manufacturing division and major group	Weight	Dec-22	Jan-23	Feb-23	<sup>1</sup> Mar-23	<sup>1</sup> Apr-23	<sup>1</sup> May-23
<b>Food and beverages</b>	<b>20,75</b>	<b>105,8</b>	<b>93,2</b>	<b>89,8</b>	<b>104,8</b>	<b>95,5</b>	<b>97,9</b>
Meat, fish, fruit, etc.	3,27	111,4	101,4	100,8	116,0	95,4	109,3
Dairy products	1,39	104,6	101,2	87,0	106,0	96,5	100,7
Grain mill products	1,68	90,2	92,1	100,5	107,6	92,9	108,4
Other food products	7,75	87,1	77,2	78,3	91,4	94,7	87,4
Beverages	6,66	129,1	106,4	95,6	113,8	96,9	101,3
<b>Textiles, clothing, leather and footwear</b>	<b>4,26</b>	<b>77,9</b>	<b>66,3</b>	<b>86,4</b>	<b>93,6</b>	<b>84,7</b>	<b>94,1</b>
Textiles	1,08	72,4	75,5	93,2	110,8	91,0	116,4
Other textile products	0,61	82,0	65,3	101,1	93,2	85,7	83,1
Knitted, crocheted articles	0,06	69,2	57,2	70,8	84,5	76,0	89,4
Wearing apparel	1,98	78,3	59,0	79,2	85,2	82,5	86,6
Leather and leather products	0,27	67,3	80,0	88,8	86,0	72,7	81,0
Footwear	0,25	101,7	74,2	79,9	97,8	88,5	99,8
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,63</b>	<b>89,8</b>	<b>81,8</b>	<b>79,7</b>	<b>91,1</b>	<b>79,0</b>	<b>84,6</b>
Sawmilling and planing of wood	0,87	75,4	92,3	95,6	84,2	85,3	93,4
Products of wood	0,88	84,5	96,0	102,5	105,4	93,6	103,1
Paper and paper products	5,34	99,1	83,2	74,6	99,2	82,2	84,5
Publishing	2,18	74,9	72,8	77,0	71,2	61,3	72,2
Printing, recorded media	1,35	89,8	75,0	79,1	86,6	81,0	87,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,95</b>	<b>69,6</b>	<b>68,8</b>	<b>74,1</b>	<b>81,9</b>	<b>77,0</b>	<b>76,7</b>
Coke, petroleum products and nuclear fuel	11,85	52,0	51,4	56,0	63,3	64,6	53,8
Basic chemicals	3,50	93,3	89,9	94,7	101,1	97,6	103,1
Other chemical products	6,64	85,2	79,9	85,6	94,7	82,5	94,2
Rubber products	0,76	49,7	92,3	102,7	111,0	91,2	89,1
Plastic products	2,20	86,0	87,1	94,4	102,8	89,0	101,4
<b>Glass and non-metallic mineral products</b>	<b>3,24</b>	<b>91,3</b>	<b>86,8</b>	<b>88,3</b>	<b>96,3</b>	<b>90,0</b>	<b>109,9</b>
Glass and glass products	0,49	101,6	100,5	94,1	105,5	96,5	105,2
Non-metallic mineral products	2,75	89,4	84,3	87,3	94,6	88,8	110,7
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>19,73</b>	<b>77,9</b>	<b>79,9</b>	<b>90,5</b>	<b>104,3</b>	<b>94,3</b>	<b>102,5</b>
Basic iron and steel products	2,92	69,7	81,8	77,2	93,4	93,1	83,2
Non-ferrous metal products	3,32	84,2	83,5	81,1	89,6	83,0	94,3
Structural metal products	1,99	80,5	71,3	95,7	113,1	95,3	95,4
Other fabricated metal products	3,53	67,1	77,0	99,9	105,6	89,8	109,8
General purpose machinery	3,42	82,4	83,7	99,0	113,8	104,0	117,4
Special purpose machinery	3,85	82,1	77,5	89,8	109,9	99,3	107,3
Household appliances	0,70	83,1	87,4	91,9	109,6	99,1	107,3
<b>Electrical machinery</b>	<b>2,21</b>	<b>77,0</b>	<b>80,7</b>	<b>99,1</b>	<b>110,9</b>	<b>100,9</b>	<b>113,8</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,07</b>	<b>106,9</b>	<b>74,7</b>	<b>99,2</b>	<b>112,5</b>	<b>91,2</b>	<b>101,0</b>
Radio, television and communication apparatus	0,04	110,2	64,1	89,1	103,1	76,0	81,5
Professional equipment	1,03	106,8	75,1	99,6	112,9	91,8	101,8
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,89</b>	<b>65,2</b>	<b>80,9</b>	<b>103,7</b>	<b>118,5</b>	<b>92,4</b>	<b>107,4</b>
Motor vehicles	2,78	52,6	77,7	97,6	113,8	84,1	102,7
Bodies for motor vehicles, trailers and semi-trailers	0,73	68,7	71,9	103,2	122,5	92,4	116,9
Parts and accessories	3,97	63,0	84,3	109,9	118,9	103,7	115,5
Other transport equipment	1,40	94,9	82,3	98,3	124,6	76,6	88,5
<b>Furniture and other manufacturing</b>	<b>4,27</b>	<b>83,2</b>	<b>70,6</b>	<b>80,8</b>	<b>86,0</b>	<b>82,1</b>	<b>88,4</b>
Furniture	0,78	95,2	73,1	78,2	94,8	82,0	90,4
Other manufacturing groups	3,49	80,5	70,1	81,3	84,1	82,1	88,0
<b>Total</b>	<b>100</b>	<b>82,7</b>	<b>79,4</b>	<b>85,9</b>	<b>97,4</b>	<b>87,5</b>	<b>93,2</b>

<sup>1</sup> Preliminary.



**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	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23
<b>Food and beverages</b>	<b>-4,3</b>	<b>4,1</b>	<b>-6,3</b>	<b>3,5</b>	<b>4,6</b>	<b>1,3</b>
Meat, fish, fruit, etc.	-3,7	10,0	0,0	5,1	-2,9	5,3
Dairy products	8,2	18,8	10,3	21,1	14,1	29,4
Grain mill products	-13,4	-7,4	4,6	2,2	1,0	7,0
Other food products	1,4	-3,0	-6,5	11,9	1,6	-4,0
Beverages	-8,8	8,5	-13,7	-6,4	11,5	-1,1
<b>Textiles, clothing, leather and footwear</b>	<b>-3,9</b>	<b>-4,3</b>	<b>-12,5</b>	<b>-12,4</b>	<b>1,7</b>	<b>1,8</b>
Textiles	-4,7	-13,4	-20,5	-9,5	-12,8	-1,5
Other textile products	8,0	5,3	6,4	-12,3	0,7	-1,0
Knitted, crocheted articles	12,0	1,4	-18,2	1,8	8,0	-8,2
Wearing apparel	-8,3	-4,7	-16,5	-18,5	11,5	6,4
Leather and leather products	3,2	10,0	4,5	-2,4	4,2	-11,6
Footwear	-3,0	8,3	5,5	13,9	10,5	13,8
<b>Wood and wood products, paper, publishing and printing</b>	<b>-1,6</b>	<b>-4,6</b>	<b>-5,1</b>	<b>0,6</b>	<b>1,7</b>	<b>2,5</b>
Sawmilling and planing of wood	2,9	15,2	9,4	2,6	3,8	3,4
Products of wood	-6,3	4,7	2,2	8,0	4,7	5,2
Paper and paper products	-0,9	-8,7	-13,3	0,8	3,3	1,7
Publishing	-8,7	-7,7	2,9	-2,3	-6,0	3,4
Printing, recorded media	6,4	0,3	1,0	-2,7	1,1	1,5
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>-12,2</b>	<b>-11,6</b>	<b>-6,0</b>	<b>-9,0</b>	<b>2,9</b>	<b>-3,4</b>
Coke, petroleum products and nuclear fuel	-27,5	-25,4	-14,6	-15,6	12,3	4,5
Basic chemicals	2,8	-6,1	7,7	-7,2	-5,0	-11,8
Other chemical products	-4,2	-0,4	-7,2	-7,1	-1,7	-8,3
Rubber products	4,6	-10,0	14,9	15,0	-0,5	-4,2
Plastic products	1,9	7,3	3,1	0,4	-1,9	6,4
<b>Glass and non-metallic mineral products</b>	<b>6,0</b>	<b>8,5</b>	<b>-5,2</b>	<b>-8,7</b>	<b>-2,4</b>	<b>0,5</b>
Glass and glass products	2,7	11,3	-3,2	7,2	-3,3	-2,0
Non-metallic mineral products	6,7	7,9	-5,4	-11,4	-2,2	0,8
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>-6,0</b>	<b>-3,9</b>	<b>-4,8</b>	<b>0,4</b>	<b>4,7</b>	<b>5,8</b>
Basic iron and steel products	-15,9	-13,2	-18,6	4,6	2,0	-2,7
Non-ferrous metal products	-6,3	-0,5	-8,3	-10,2	-6,3	5,7
Structural metal products	16,5	8,5	4,6	4,5	32,9	10,5
Other fabricated metal products	-5,4	-13,3	-1,7	-5,1	3,2	13,4
General purpose machinery	-13,4	6,1	6,2	8,9	17,0	0,8
Special purpose machinery	-2,1	-3,2	-8,5	0,6	-2,9	8,4
Household appliances	-1,1	-5,0	-6,1	6,4	0,6	1,7
<b>Electrical machinery</b>	<b>-11,4</b>	<b>-7,8</b>	<b>-6,3</b>	<b>-1,0</b>	<b>2,4</b>	<b>16,6</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>19,4</b>	<b>-10,8</b>	<b>1,5</b>	<b>0,8</b>	<b>1,3</b>	<b>0,2</b>
Radio, television and communication apparatus	-12,1	2,2	-2,2	30,3	24,8	15,8
Professional equipment	21,4	-11,2	1,6	-0,1	0,7	-0,3
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>13,4</b>	<b>-6,7</b>	<b>1,0</b>	<b>4,8</b>	<b>4,9</b>	<b>15,1</b>
Motor vehicles	10,5	-5,6	-12,0	-7,0	7,0	17,4
Bodies for motor vehicles, trailers and semi-trailers	0,7	-10,5	10,6	5,2	-15,1	-1,8
Parts and accessories	24,0	-10,4	6,8	12,1	11,9	22,5
Other transport equipment	4,5	5,9	8,0	10,3	-7,6	0,3
<b>Furniture and other manufacturing</b>	<b>-4,5</b>	<b>-6,1</b>	<b>-11,6</b>	<b>-2,3</b>	<b>4,7</b>	<b>-8,9</b>
Furniture	-4,7	-0,9	-5,6	7,4	7,2	0,9
Other manufacturing groups	-4,4	-7,2	-12,9	-4,2	4,1	-10,8
<b>Total</b>	<b>-4,6</b>	<b>-4,1</b>	<b>-5,5</b>	<b>-1,7</b>	<b>3,6</b>	<b>2,5</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	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23
<b>Food and beverages</b>	<b>20,75</b>	<b>-1,1</b>	<b>0,9</b>	<b>-1,4</b>	<b>0,7</b>	<b>1,0</b>	<b>0,3</b>
Meat, fish, fruit, etc.	3,27	-0,2	0,4	0,0	0,2	-0,1	0,2
Dairy products	1,39	0,1	0,3	0,1	0,3	0,2	0,4
Grain mill products	1,68	-0,3	-0,2	0,1	0,0	0,0	0,1
Other food products	7,75	0,1	-0,2	-0,5	0,8	0,1	-0,3
Beverages	6,66	-1,0	0,7	-1,1	-0,5	0,8	-0,1
<b>Textiles, clothing, leather and footwear</b>	<b>4,26</b>	<b>-0,2</b>	<b>-0,2</b>	<b>-0,6</b>	<b>-0,6</b>	<b>0,1</b>	<b>0,1</b>
Textiles	1,08	0,0	-0,2	-0,3	-0,1	-0,2	0,0
Other textile products	0,61	0,0	0,0	0,0	-0,1	0,0	0,0
Knitted, crocheted articles	0,06	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	1,98	-0,2	-0,1	-0,3	-0,4	0,2	0,1
Leather and leather products	0,27	0,0	0,0	0,0	0,0	0,0	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>10,63</b>	<b>-0,2</b>	<b>-0,5</b>	<b>-0,5</b>	<b>0,1</b>	<b>0,2</b>	<b>0,2</b>
Sawmilling and planing of wood	0,87	0,0	0,1	0,1	0,0	0,0	0,0
Products of wood	0,88	-0,1	0,0	0,0	0,1	0,0	0,0
Paper and paper products	5,34	-0,1	-0,5	-0,7	0,0	0,2	0,1
Publishing	2,18	-0,2	-0,2	0,1	0,0	-0,1	0,1
Printing, recorded media	1,35	0,1	0,0	0,0	0,0	0,0	0,0
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,95</b>	<b>-2,8</b>	<b>-2,7</b>	<b>-1,3</b>	<b>-2,0</b>	<b>0,6</b>	<b>-0,7</b>
Coke, petroleum products and nuclear fuel	11,85	-2,7	-2,5	-1,3	-1,4	1,0	0,3
Basic chemicals	3,50	0,1	-0,2	0,3	-0,3	-0,2	-0,5
Other chemical products	6,64	-0,3	0,0	-0,5	-0,5	-0,1	-0,6
Rubber products	0,76	0,0	-0,1	0,1	0,1	0,0	0,0
Plastic products	2,20	0,0	0,2	0,1	0,0	0,0	0,1
<b>Glass and non-metallic mineral products</b>	<b>3,24</b>	<b>0,2</b>	<b>0,3</b>	<b>-0,2</b>	<b>-0,3</b>	<b>-0,1</b>	<b>0,0</b>
Glass and glass products	0,49	0,0	0,1	0,0	0,0	0,0	0,0
Non-metallic mineral products	2,75	0,2	0,2	-0,2	-0,3	-0,1	0,0
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>19,73</b>	<b>-1,1</b>	<b>-0,8</b>	<b>-1,0</b>	<b>0,1</b>	<b>1,0</b>	<b>1,2</b>
Basic iron and steel products	2,92	-0,4	-0,4	-0,6	0,1	0,1	-0,1
Non-ferrous metal products	3,32	-0,2	0,0	-0,3	-0,3	-0,2	0,2
Structural metal products	1,99	0,3	0,1	0,1	0,1	0,6	0,2
Other fabricated metal products	3,53	-0,2	-0,5	-0,1	-0,2	0,1	0,5
General purpose machinery	3,42	-0,5	0,2	0,2	0,3	0,6	0,0
Special purpose machinery	3,85	-0,1	-0,1	-0,4	0,0	-0,1	0,4
Household appliances	0,70	0,0	0,0	0,0	0,0	0,0	0,0
<b>Electrical machinery</b>	<b>2,21</b>	<b>-0,3</b>	<b>-0,2</b>	<b>-0,2</b>	<b>0,0</b>	<b>0,1</b>	<b>0,4</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,07</b>	<b>0,2</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	0,04	0,0	0,0	0,0	0,0	0,0	0,0
Professional equipment	1,03	0,2	-0,1	0,0	0,0	0,0	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,89</b>	<b>0,8</b>	<b>-0,6</b>	<b>0,1</b>	<b>0,5</b>	<b>0,5</b>	<b>1,4</b>
Motor vehicles	2,78	0,2	-0,2	-0,4	-0,2	0,2	0,5
Bodies for motor vehicles, trailers and semi-trailers	0,73	0,0	-0,1	0,1	0,0	-0,1	0,0
Parts and accessories	3,97	0,6	-0,5	0,3	0,5	0,5	0,9
Other transport equipment	1,40	0,1	0,1	0,1	0,2	-0,1	0,0
<b>Furniture and other manufacturing</b>	<b>4,27</b>	<b>-0,2</b>	<b>-0,2</b>	<b>-0,5</b>	<b>-0,1</b>	<b>0,2</b>	<b>-0,4</b>
Furniture	0,78	0,0	0,0	0,0	0,1	0,1	0,0
Other manufacturing groups	3,49	-0,1	-0,2	-0,5	-0,1	0,1	-0,4
<b>Total</b>	<b>100</b>	<b>-4,6</b>	<b>-4,1</b>	<b>-5,5</b>	<b>-1,7</b>	<b>3,6</b>	<b>2,5</b>

**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	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Month-on-month % change
<b>Food and beverages</b>	<b>20,75</b>	<b>106,0</b>	<b>99,8</b>	<b>105,5</b>	<b>103,7</b>	<b>99,7</b>	<b>-3,9</b>
Meat, fish, fruit, etc.	3,27	112,5	106,0	109,8	104,2	106,4	2,1
Dairy products	1,39	103,8	99,1	103,4	104,4	108,4	3,8
Grain mill products	1,68	100,4	107,7	104,1	102,4	104,6	2,1
Other food products	7,75	94,5	94,6	100,8	95,2	84,2	-11,6
Beverages	6,66	118,1	101,0	109,7	113,6	111,3	-2,0
<b>Textiles, clothing, leather and footwear</b>	<b>4,26</b>	<b>93,1</b>	<b>88,6</b>	<b>90,6</b>	<b>90,7</b>	<b>93,2</b>	<b>2,8</b>
Textiles	1,08	98,9	92,5	102,1	95,6	108,0	13,0
Other textile products	0,61	87,2	95,8	87,6	92,4	86,3	-6,6
Knitted, crocheted articles	0,06	81,7	75,9	82,5	81,1	82,5	1,7
Wearing apparel	1,98	91,5	83,6	85,2	88,3	87,3	-1,1
Leather and leather products	0,27	87,2	84,6	79,8	76,4	82,3	7,7
Footwear	0,25	104,0	100,8	105,3	101,7	108,2	6,4
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,63</b>	<b>91,9</b>	<b>85,0</b>	<b>91,6</b>	<b>91,3</b>	<b>91,1</b>	<b>-0,2</b>
Sawmilling and planing of wood	0,87	99,6	97,5	85,3	94,6	89,4	-5,5
Products of wood	0,88	110,1	106,4	106,7	104,3	106,8	2,4
Paper and paper products	5,34	92,4	79,4	95,8	94,4	91,3	-3,3
Publishing	2,18	80,0	81,3	77,7	75,2	82,6	9,8
Printing, recorded media	1,35	92,7	91,4	91,5	94,5	94,7	0,2
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,95</b>	<b>73,8</b>	<b>78,3</b>	<b>79,3</b>	<b>83,3</b>	<b>78,8</b>	<b>-5,4</b>
Coke, petroleum products and nuclear fuel	11,85	50,3	58,5	61,5	67,8	59,6	-12,1
Basic chemicals	3,50	94,8	106,0	101,5	102,9	102,1	-0,8
Other chemical products	6,64	91,7	89,6	90,4	93,1	91,2	-2,0
Rubber products	0,76	101,1	97,1	97,6	99,7	88,2	-11,5
Plastic products	2,20	103,6	100,4	100,4	100,5	104,2	3,7
<b>Glass and non-metallic mineral products</b>	<b>3,24</b>	<b>106,3</b>	<b>98,0</b>	<b>93,7</b>	<b>98,7</b>	<b>102,9</b>	<b>4,3</b>
Glass and glass products	0,49	107,9	101,9	108,5	105,0	105,0	0,0
Non-metallic mineral products	2,75	106,0	97,2	91,1	97,5	102,5	5,1
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>19,73</b>	<b>95,5</b>	<b>94,3</b>	<b>97,6</b>	<b>97,9</b>	<b>99,4</b>	<b>1,5</b>
Basic iron and steel products	2,92	80,5	78,0	87,0	87,5	80,5	-8,0
Non-ferrous metal products	3,32	89,3	85,0	85,5	85,9	89,5	4,2
Structural metal products	1,99	98,8	97,6	106,3	104,9	98,2	-6,4
Other fabricated metal products	3,53	93,6	100,3	99,0	97,0	107,4	10,7
General purpose machinery	3,42	113,4	109,2	114,0	111,6	111,8	0,2
Special purpose machinery	3,85	97,4	94,1	94,3	100,8	104,3	3,5
Household appliances	0,70	90,6	94,5	104,4	100,7	100,5	-0,2
<b>Electrical machinery</b>	<b>2,21</b>	<b>99,8</b>	<b>100,6</b>	<b>101,6</b>	<b>106,6</b>	<b>107,6</b>	<b>0,9</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,07</b>	<b>98,3</b>	<b>105,0</b>	<b>101,9</b>	<b>99,9</b>	<b>102,9</b>	<b>3,0</b>
Radio, television and communication apparatus	0,04	90,4	91,9	98,0	94,2	94,1	-0,1
Professional equipment	1,03	98,6	105,6	102,0	100,2	103,2	3,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,89</b>	<b>98,8</b>	<b>101,2</b>	<b>103,8</b>	<b>99,1</b>	<b>105,0</b>	<b>6,0</b>
Motor vehicles	2,78	98,3	93,3	97,9	96,6	101,9	5,5
Bodies for motor vehicles, trailers and semi-trailers	0,73	100,8	108,2	120,3	94,2	110,9	17,7
Parts and accessories	3,97	98,6	105,6	105,6	105,6	109,2	3,4
Other transport equipment	1,40	99,1	100,8	101,9	88,2	96,2	9,1
<b>Furniture and other manufacturing</b>	<b>4,27</b>	<b>87,1</b>	<b>81,2</b>	<b>90,4</b>	<b>95,6</b>	<b>87,7</b>	<b>-8,3</b>
Furniture	0,78	95,2	87,3	98,0	96,9	89,8	-7,3
Other manufacturing groups	3,49	85,3	79,9	88,7	95,2	87,2	-8,4
<b>Total</b>	<b>100</b>	<b>92,2</b>	<b>90,6</b>	<b>94,0</b>	<b>94,7</b>	<b>93,5</b>	<b>-1,3</b>

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

Month	2017	2018	2019	2020	2021	2022	2023 <sup>1</sup>
Jan	160 525	167 548	183 379	182 810	179 439	203 502	223 345
Feb	175 284	186 833	197 889	202 751	206 844	229 922	249 774
Mar	196 317	198 873	216 145	202 704	238 957	260 280	291 961
Apr	170 582	178 303	205 339	98 153	216 628	224 281	253 193
May	193 831	207 711	215 489	145 978	222 587	250 160	268 890
Jun	197 264	207 188	215 533	178 506	229 004	251 809	
Jul	188 822	210 326	219 394	192 336	198 298	246 010	
Aug	200 787	217 655	228 219	198 640	219 992	257 345	
Sep	202 754	221 058	219 593	213 806	231 917	274 061	
Oct	212 440	239 210	239 383	234 021	230 295	265 803	
Nov	230 169	243 365	237 498	238 072	258 050	286 986	
Dec	187 323	196 436	190 046	196 767	217 403	236 998	
<b>Total</b>	<b>2 316 098</b>	<b>2 474 506</b>	<b>2 567 907</b>	<b>2 284 544</b>	<b>2 649 414</b>	<b>2 987 157</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	9,4	-0,3	-1,8	13,4	9,8	9,8
Feb	6,6	5,9	2,5	2,0	11,2	8,6	9,2
Mar	1,3	8,7	-6,2	17,9	8,9	12,2	10,3
Apr	4,5	15,2	-52,2	120,7	3,5	12,9	10,9
May	7,2	3,7	-32,3	52,5	12,4	7,5	10,2
Jun	5,0	4,0	-17,2	28,3	10,0		
Jul	11,4	4,3	-12,3	3,1	24,1		
Aug	8,4	4,9	-13,0	10,7	17,0		
Sep	9,0	-0,7	-2,6	8,5	18,2		
Oct	12,6	0,1	-2,2	-1,6	15,4		
Nov	5,7	-2,4	0,2	8,4	11,2		
Dec	4,9	-3,3	3,5	10,5	9,0		
<b>Total</b>	<b>6,8</b>	<b>3,8</b>	<b>-11,0</b>	<b>16,0</b>	<b>12,7</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	211 334	211 391	240 850	260 910	3,0	-0,7	3,4	0,1
Feb	214 647	219 056	244 458	265 253	1,6	3,6	1,5	1,7
Mar	197 784	229 763	248 228	275 701	-7,9	4,9	1,5	3,9
Apr	104 674	228 614	238 682	274 191	-47,1	-0,5	-3,8	-0,5
May	146 624	225 579	250 070	266 818	40,1	-1,3	4,8	-2,7
Jun	175 027	224 173	247 380		19,4	-0,6	-1,1	
Jul	188 382	197 550	247 310		7,6	-11,9	0,0	
Aug	196 512	215 950	250 453		4,3	9,3	1,3	
Sep	204 690	222 057	260 066		4,2	2,8	3,8	
Oct	212 234	212 244	248 040		3,7	-4,4	-4,6	
Nov	213 633	229 231	255 435		0,7	8,0	3,0	
Dec	212 896	232 940	260 614		-0,3	1,6	2,0	

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

Manufacturing division and major group	Dec-22	Jan-23	Feb-23	<sup>1</sup> Mar-23	<sup>1</sup> Apr-23	<sup>1</sup> May-23
<b>Food and beverages</b>	<b>65 997</b>	<b>57 299</b>	<b>58 832</b>	<b>66 289</b>	<b>62 860</b>	<b>65 467</b>
Meat, fish, fruit, etc.	19 878	16 915	17 463	18 962	16 491	19 182
Dairy products	5 898	5 590	5 132	6 318	5 725	6 040
Grain mill products	10 178	10 816	10 971	12 408	11 407	12 605
Other food products	10 895	9 684	11 338	11 586	14 933	13 051
Beverages	19 148	14 293	13 927	17 013	14 304	14 590
<b>Textiles, clothing, leather and footwear</b>	<b>5 147</b>	<b>4 042</b>	<b>5 593</b>	<b>5 900</b>	<b>5 541</b>	<b>6 054</b>
Textiles	591	607	778	882	770	1 001
Other textile products	1 529	1 186	1 772	1 676	1 539	1 605
Knitted, crocheted articles	171	142	180	215	200	229
Wearing apparel	1 612	1 120	1 662	1 735	1 773	1 861
Leather and leather products	421	378	527	582	451	501
Footwear	823	610	673	811	808	857
<b>Wood and wood products, paper, publishing and printing</b>	<b>16 455</b>	<b>13 581</b>	<b>14 526</b>	<b>18 618</b>	<b>14 313</b>	<b>16 166</b>
Sawmilling and planing of wood	1 041	1 170	1 227	1 308	1 241	1 333
Products of wood	1 637	1 997	2 144	2 150	2 013	2 405
Paper and paper products	9 672	6 629	7 035	10 727	7 159	8 318
Publishing	1 350	1 376	1 465	1 318	1 175	1 366
Printing, recorded media	2 755	2 410	2 655	3 115	2 725	2 743
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>48 838</b>	<b>44 838</b>	<b>51 503</b>	<b>58 565</b>	<b>54 028</b>	<b>53 221</b>
Coke, petroleum products and nuclear fuel	15 586	13 860	17 837	20 803	20 873	16 588
Basic chemicals	10 691	10 303	10 447	11 738	11 011	11 580
Other chemical products	13 909	12 306	13 637	15 364	13 345	15 005
Rubber products	1 676	1 626	1 910	2 233	1 835	1 935
Plastic products	6 976	6 744	7 672	8 428	6 964	8 114
<b>Glass and non-metallic mineral products</b>	<b>7 058</b>	<b>6 511</b>	<b>7 364</b>	<b>8 082</b>	<b>7 567</b>	<b>8 639</b>
Glass and glass products	1 430	1 193	1 354	1 538	1 314	1 278
Non-metallic mineral products	5 628	5 318	6 010	6 544	6 253	7 361
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>46 315</b>	<b>46 429</b>	<b>52 047</b>	<b>62 088</b>	<b>53 636</b>	<b>59 542</b>
Basic iron and steel products	10 626	12 021	11 905	15 946	13 894	12 912
Non-ferrous metal products	15 426	15 440	14 675	16 986	14 877	17 405
Structural metal products	3 618	3 157	4 196	5 252	4 257	4 546
Other fabricated metal products	5 755	6 344	8 439	8 822	7 598	9 384
General purpose machinery	4 200	4 307	5 207	6 046	5 486	6 201
Special purpose machinery	5 655	4 152	6 515	7 699	6 283	7 768
Household appliances	1 034	1 007	1 111	1 337	1 240	1 327
<b>Electrical machinery</b>	<b>5 198</b>	<b>4 690</b>	<b>6 259</b>	<b>7 319</b>	<b>6 263</b>	<b>7 482</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 885</b>	<b>1 840</b>	<b>2 442</b>	<b>2 951</b>	<b>2 262</b>	<b>2 413</b>
Radio, television and communication apparatus	1 315	792	1 110	1 252	925	1 003
Professional equipment	1 569	1 048	1 332	1 699	1 337	1 410
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>29 671</b>	<b>36 590</b>	<b>42 369</b>	<b>51 699</b>	<b>36 689</b>	<b>39 447</b>
Motor vehicles	17 820	22 813	25 499	33 299	23 049	22 938
Bodies for motor vehicles, trailers and semi-trailers	1 102	844	1 379	1 754	1 280	1 705
Parts and accessories	7 691	10 296	12 323	12 492	9 818	11 906
Other transport equipment	3 058	2 636	3 168	4 154	2 541	2 897
<b>Furniture and other manufacturing</b>	<b>9 435</b>	<b>7 524</b>	<b>8 841</b>	<b>10 450</b>	<b>10 035</b>	<b>10 459</b>
Furniture	1 318	1 284	1 417	1 705	1 581	1 647
Other manufacturing groups	8 117	6 240	7 424	8 745	8 454	8 812
<b>Total</b>	<b>236 998</b>	<b>223 345</b>	<b>249 774</b>	<b>291 961</b>	<b>253 193</b>	<b>268 890</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	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23
<b>Food and beverages</b>	<b>4,7</b>	<b>14,7</b>	<b>12,3</b>	<b>12,0</b>	<b>14,6</b>	<b>15,1</b>
Meat, fish, fruit, etc.	7,9	17,4	17,4	4,5	-0,9	7,7
Dairy products	21,9	34,9	30,7	33,9	36,5	41,5
Grain mill products	9,7	25,6	29,0	23,6	20,4	24,3
Other food products	15,2	5,7	19,7	19,8	37,2	29,0
Beverages	-9,0	5,0	-11,0	2,3	4,8	0,2
<b>Textiles, clothing, leather and footwear</b>	<b>6,5</b>	<b>4,8</b>	<b>4,6</b>	<b>-1,2</b>	<b>13,9</b>	<b>11,4</b>
Textiles	5,9	-2,7	2,0	5,5	6,9	27,8
Other textile products	23,3	16,6	10,6	-4,1	9,7	10,1
Knitted, crocheted articles	20,4	6,8	0,0	-0,5	22,0	-2,1
Wearing apparel	-8,6	-9,0	-6,5	-15,9	12,1	4,5
Leather and leather products	14,7	2,2	11,7	23,8	15,6	-2,3
Footwear	7,9	26,0	21,9	27,5	33,1	28,7
<b>Wood and wood products, paper, publishing and printing</b>	<b>16,3</b>	<b>-0,6</b>	<b>6,8</b>	<b>26,1</b>	<b>17,5</b>	<b>26,8</b>
Sawmilling and planing of wood	22,8	37,2	27,2	32,8	32,2	33,3
Products of wood	8,2	9,8	8,6	9,4	9,6	25,9
Paper and paper products	18,5	-11,3	-2,0	30,7	20,5	33,1
Publishing	7,1	-1,1	19,7	11,9	14,9	23,1
Printing, recorded media	16,7	13,6	18,1	28,2	11,8	10,6
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>5,0</b>	<b>3,6</b>	<b>14,3</b>	<b>11,3</b>	<b>18,1</b>	<b>-3,2</b>
Coke, petroleum products and nuclear fuel	-3,8	-2,7	24,0	27,9	48,5	-4,3
Basic chemicals	3,7	9,5	9,8	1,0	10,8	-7,0
Other chemical products	15,4	6,2	12,9	4,2	5,6	-3,6
Rubber products	20,3	20,4	19,4	29,8	2,2	22,1
Plastic products	6,3	0,6	2,7	1,8	-4,6	0,6
<b>Glass and non-metallic mineral products</b>	<b>17,2</b>	<b>12,4</b>	<b>1,5</b>	<b>3,6</b>	<b>14,3</b>	<b>3,9</b>
Glass and glass products	15,0	13,0	11,5	27,4	12,6	-5,7
Non-metallic mineral products	17,7	12,2	-0,5	-0,8	14,7	5,7
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>0,1</b>	<b>-6,8</b>	<b>-7,2</b>	<b>-4,5</b>	<b>1,6</b>	<b>-2,4</b>
Basic iron and steel products	-6,7	-18,4	-18,0	-3,8	5,9	-15,6
Non-ferrous metal products	-1,7	-4,6	-22,0	-21,9	-17,8	-12,3
Structural metal products	31,0	15,0	19,1	14,0	30,4	17,6
Other fabricated metal products	7,4	-6,5	5,4	-1,7	4,2	12,4
General purpose machinery	-2,1	20,3	22,8	25,9	33,5	15,3
Special purpose machinery	-2,4	-13,9	11,2	9,5	7,5	10,0
Household appliances	6,5	3,3	0,2	5,9	15,0	12,4
<b>Electrical machinery</b>	<b>5,6</b>	<b>0,3</b>	<b>7,7</b>	<b>14,1</b>	<b>13,3</b>	<b>30,3</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>8,4</b>	<b>-4,0</b>	<b>3,2</b>	<b>15,9</b>	<b>13,2</b>	<b>5,3</b>
Radio, television and communication apparatus	-7,8	3,8	8,0	20,2	24,8	22,5
Professional equipment	27,0	-9,1	-0,5	13,0	6,4	-4,2
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>53,3</b>	<b>54,2</b>	<b>25,9</b>	<b>43,0</b>	<b>18,7</b>	<b>22,0</b>
Motor vehicles	62,6	70,1	24,6	56,9	20,6	16,2
Bodies for motor vehicles, trailers and semi-trailers	28,3	-5,9	22,5	22,9	-1,5	11,3
Parts and accessories	54,8	42,7	30,3	22,9	22,4	42,4
Other transport equipment	18,8	19,4	21,2	24,7	2,2	7,6
<b>Furniture and other manufacturing</b>	<b>-2,3</b>	<b>10,6</b>	<b>5,9</b>	<b>6,9</b>	<b>14,0</b>	<b>0,3</b>
Furniture	-20,3	7,6	4,4	15,4	23,3	10,8
Other manufacturing groups	1,4	11,2	6,2	5,4	12,4	-1,4
<b>Total</b>	<b>9,0</b>	<b>9,8</b>	<b>8,6</b>	<b>12,2</b>	<b>12,9</b>	<b>7,5</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	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23
<b>Food and beverages</b>	<b>1,4</b>	<b>3,6</b>	<b>2,8</b>	<b>2,7</b>	<b>3,6</b>	<b>3,4</b>
Meat, fish, fruit, etc.	0,7	1,2	1,1	0,3	-0,1	0,5
Dairy products	0,5	0,7	0,5	0,6	0,7	0,7
Grain mill products	0,4	1,1	1,1	0,9	0,9	1,0
Other food products	0,7	0,3	0,8	0,7	1,8	1,2
Beverages	-0,9	0,3	-0,7	0,1	0,3	0,0
<b>Textiles, clothing, leather and footwear</b>	<b>0,1</b>	<b>0,1</b>	<b>0,1</b>	<b>0,0</b>	<b>0,3</b>	<b>0,2</b>
Textiles	0,0	0,0	0,0	0,0	0,0	0,1
Other textile products	0,1	0,1	0,1	0,0	0,1	0,1
Knitted, crocheted articles	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	-0,1	-0,1	-0,1	-0,1	0,1	0,0
Leather and leather products	0,0	0,0	0,0	0,0	0,0	0,0
Footwear	0,0	0,1	0,1	0,1	0,1	0,1
<b>Wood and wood products, paper, publishing and printing</b>	<b>1,1</b>	<b>0,0</b>	<b>0,4</b>	<b>1,5</b>	<b>1,0</b>	<b>1,4</b>
Sawmilling and planing of wood	0,1	0,2	0,1	0,1	0,1	0,1
Products of wood	0,1	0,1	0,1	0,1	0,1	0,2
Paper and paper products	0,7	-0,4	-0,1	1,0	0,5	0,8
Publishing	0,0	0,0	0,1	0,1	0,1	0,1
Printing, recorded media	0,2	0,1	0,2	0,3	0,1	0,1
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>1,1</b>	<b>0,8</b>	<b>2,8</b>	<b>2,3</b>	<b>3,7</b>	<b>-0,7</b>
Coke, petroleum products and nuclear fuel	-0,3	-0,2	1,5	1,7	3,0	-0,3
Basic chemicals	0,2	0,4	0,4	0,0	0,5	-0,3
Other chemical products	0,9	0,4	0,7	0,2	0,3	-0,2
Rubber products	0,1	0,1	0,1	0,2	0,0	0,1
Plastic products	0,2	0,0	0,1	0,1	-0,1	0,0
<b>Glass and non-metallic mineral products</b>	<b>0,5</b>	<b>0,4</b>	<b>0,0</b>	<b>0,1</b>	<b>0,4</b>	<b>0,1</b>
Glass and glass products	0,1	0,1	0,1	0,1	0,1	0,0
Non-metallic mineral products	0,4	0,3	0,0	0,0	0,4	0,2
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>0,0</b>	<b>-1,7</b>	<b>-1,8</b>	<b>-1,1</b>	<b>0,4</b>	<b>-0,6</b>
Basic iron and steel products	-0,4	-1,3	-1,1	-0,2	0,3	-1,0
Non-ferrous metal products	-0,1	-0,4	-1,8	-1,8	-1,4	-1,0
Structural metal products	0,4	0,2	0,3	0,2	0,4	0,3
Other fabricated metal products	0,2	-0,2	0,2	-0,1	0,1	0,4
General purpose machinery	0,0	0,4	0,4	0,5	0,6	0,3
Special purpose machinery	-0,1	-0,3	0,3	0,3	0,2	0,3
Household appliances	0,0	0,0	0,0	0,0	0,1	0,1
<b>Electrical machinery</b>	<b>0,1</b>	<b>0,0</b>	<b>0,2</b>	<b>0,3</b>	<b>0,3</b>	<b>0,7</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>0,1</b>	<b>0,0</b>	<b>0,0</b>	<b>0,2</b>	<b>0,1</b>	<b>0,0</b>
Radio, television and communication apparatus	-0,1	0,0	0,0	0,1	0,1	0,1
Professional equipment	0,2	-0,1	0,0	0,1	0,0	0,0
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>4,7</b>	<b>6,3</b>	<b>3,8</b>	<b>6,0</b>	<b>2,6</b>	<b>2,8</b>
Motor vehicles	3,2	4,6	2,2	4,6	1,8	1,3
Bodies for motor vehicles, trailers and semi-trailers	0,1	0,0	0,1	0,1	0,0	0,1
Parts and accessories	1,3	1,5	1,2	0,9	0,8	1,4
Other transport equipment	0,2	0,2	0,2	0,3	0,0	0,1
<b>Furniture and other manufacturing</b>	<b>-0,1</b>	<b>0,4</b>	<b>0,2</b>	<b>0,3</b>	<b>0,5</b>	<b>0,0</b>
Furniture	-0,2	0,0	0,0	0,1	0,1	0,1
Other manufacturing groups	0,1	0,3	0,2	0,2	0,4	-0,1
<b>Total</b>	<b>9,0</b>	<b>9,8</b>	<b>8,6</b>	<b>12,2</b>	<b>12,9</b>	<b>7,5</b>

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

Manufacturing division and major group	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Month-on-month % change
<b>Food and beverages</b>	<b>64 224</b>	<b>64 098</b>	<b>65 210</b>	<b>68 198</b>	<b>67 663</b>	<b>-0,8</b>
Meat, fish, fruit, etc.	19 492	19 244	18 509	17 868	18 954	6,1
Dairy products	5 826	5 809	5 960	6 258	6 333	1,2
Grain mill products	11 875	12 080	12 101	12 299	12 315	0,1
Other food products	10 768	12 323	12 368	14 751	13 613	-7,7
Beverages	16 264	14 642	16 273	17 022	16 447	-3,4
<b>Textiles, clothing, leather and footwear</b>	<b>5 662</b>	<b>5 911</b>	<b>5 758</b>	<b>6 012</b>	<b>6 127</b>	<b>1,9</b>
Textiles	766	791	815	830	919	10,7
Other textile products	1 648	1 721	1 623	1 653	1 618	-2,1
Knitted, crocheted articles	204	201	204	215	209	-2,8
Wearing apparel	1 758	1 811	1 693	1 877	1 918	2,2
Leather and leather products	435	527	521	488	517	5,9
Footwear	852	861	903	948	945	-0,3
<b>Wood and wood products, paper, publishing and printing</b>	<b>15 565</b>	<b>15 601</b>	<b>18 600</b>	<b>16 568</b>	<b>17 164</b>	<b>3,6</b>
Sawmilling and planing of wood	1 307	1 285	1 280	1 378	1 331	-3,4
Products of wood	2 308	2 237	2 203	2 266	2 496	10,2
Paper and paper products	7 386	7 561	10 498	8 337	8 698	4,3
Publishing	1 577	1 496	1 443	1 468	1 593	8,5
Printing, recorded media	2 987	3 022	3 176	3 121	3 045	-2,4
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>50 315</b>	<b>57 912</b>	<b>56 990</b>	<b>58 435</b>	<b>52 139</b>	<b>-10,8</b>
Coke, petroleum products and nuclear fuel	14 159	21 409	20 731	21 531	15 805	-26,6
Basic chemicals	11 545	11 667	11 321	12 009	11 448	-4,7
Other chemical products	14 430	14 842	14 666	14 890	14 792	-0,7
Rubber products	1 945	1 859	2 025	2 013	1 959	-2,7
Plastic products	8 235	8 136	8 247	7 993	8 135	1,8
<b>Glass and non-metallic mineral products</b>	<b>8 278</b>	<b>8 093</b>	<b>7 967</b>	<b>8 402</b>	<b>8 154</b>	<b>-3,0</b>
Glass and glass products	1 387	1 457	1 614	1 483	1 334	-10,0
Non-metallic mineral products	6 892	6 636	6 353	6 919	6 820	-1,4
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>54 980</b>	<b>55 143</b>	<b>56 673</b>	<b>56 757</b>	<b>56 433</b>	<b>-0,6</b>
Basic iron and steel products	12 926	12 846	14 144	13 874	12 540	-9,6
Non-ferrous metal products	17 068	15 491	15 772	15 381	16 345	6,3
Structural metal products	4 415	4 422	4 708	4 941	4 577	-7,4
Other fabricated metal products	8 125	8 925	8 324	8 495	8 857	4,3
General purpose machinery	5 681	5 631	5 844	5 814	5 823	0,2
Special purpose machinery	5 629	6 686	6 671	6 991	7 028	0,5
Household appliances	1 137	1 142	1 209	1 261	1 263	0,2
<b>Electrical machinery</b>	<b>6 128</b>	<b>6 299</b>	<b>6 641</b>	<b>6 901</b>	<b>7 182</b>	<b>4,1</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>2 497</b>	<b>2 561</b>	<b>2 726</b>	<b>2 623</b>	<b>2 583</b>	<b>-1,5</b>
Radio, television and communication apparatus	1 111	1 130	1 161	1 175	1 160	-1,3
Professional equipment	1 386	1 431	1 564	1 447	1 423	-1,7
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>43 307</b>	<b>40 366</b>	<b>45 152</b>	<b>39 797</b>	<b>39 222</b>	<b>-1,4</b>
Motor vehicles	27 509	24 578	29 630	25 135	23 150	-7,9
Bodies for motor vehicles, trailers and semi-trailers	1 248	1 522	1 624	1 402	1 617	15,3
Parts and accessories	11 349	10 989	10 524	10 350	11 305	9,2
Other transport equipment	3 200	3 276	3 374	2 910	3 150	8,2
<b>Furniture and other manufacturing</b>	<b>9 953</b>	<b>9 270</b>	<b>9 983</b>	<b>10 499</b>	<b>10 152</b>	<b>-3,3</b>
Furniture	1 849	1 589	1 785	1 824	1 659	-9,0
Other manufacturing groups	8 104	7 681	8 198	8 675	8 492	-2,1
<b>Total</b>	<b>260 910</b>	<b>265 253</b>	<b>275 701</b>	<b>274 191</b>	<b>266 818</b>	<b>-2,7</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 business sampling frame (BSF), 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 BSF, 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 64,2% for May 2023. The improved collection rate for April 2023 was 68,4%.</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 3 276 enterprises from a population of 29 355 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 2022 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 limit	Upper limit
Very small	4	2 097 811	17 500 000
Small	3	17 500 001	45 500 000
Medium	2	45 500 001	178 500 000
Large	1	178 500 001	

- 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 E – Weights by division and major group**

Manufacturing division and major group	Weights used for manufacturing indices by period			
	2016 (based on value added for 2014 – 2016)	2017 (based on value added for 2015 – 2017)	2018 (based on value added for 2016 – 2018)	2019 – 2023 (based on value added for 2017 – 2019)
<b>Food and beverages</b>	<b>19,24</b>	<b>19,76</b>	<b>20,18</b>	<b>20,75</b>
Meat, fish, fruit, etc.	2,58	2,74	2,95	3,27
Dairy products	1,27	1,32	1,34	1,39
Grain mill products	1,95	1,81	1,69	1,68
Other food products	7,29	7,53	7,76	7,75
Beverages	6,15	6,36	6,44	6,66
<b>Textiles, clothing, leather and footwear</b>	<b>4,55</b>	<b>4,44</b>	<b>4,38</b>	<b>4,26</b>
Textiles	1,15	1,11	1,10	1,08
Other textile products	0,67	0,67	0,65	0,61
Knitted, crocheted articles	0,06	0,06	0,06	0,06
Wearing apparel	2,13	2,07	2,04	1,98
Leather and leather products	0,29	0,28	0,28	0,27
Footwear	0,25	0,25	0,25	0,25
<b>Wood and wood products, paper, publishing and printing</b>	<b>10,88</b>	<b>10,76</b>	<b>10,77</b>	<b>10,63</b>
Sawmilling and planing of wood	0,93	0,93	0,93	0,87
Products of wood	0,83	0,86	0,87	0,88
Paper and paper products	5,38	5,33	5,39	5,34
Publishing	2,31	2,28	2,24	2,18
Printing, recorded media	1,43	1,36	1,34	1,35
<b>Petroleum, chemical products, rubber and plastic products</b>	<b>24,66</b>	<b>25,25</b>	<b>25,38</b>	<b>24,95</b>
Coke, petroleum products and nuclear fuel	10,98	11,72	12,02	11,85
Basic chemicals	4,10	3,82	3,69	3,50
Other chemical products	6,28	6,42	6,54	6,64
Rubber products	0,96	0,91	0,84	0,76
Plastic products	2,34	2,38	2,29	2,20
<b>Glass and non-metallic mineral products</b>	<b>3,98</b>	<b>3,66</b>	<b>3,42</b>	<b>3,24</b>
Glass and glass products	0,61	0,57	0,51	0,49
Non-metallic mineral products	3,37	3,09	2,91	2,75
<b>Basic iron and steel, non-ferrous metal products, metal products and machinery</b>	<b>19,82</b>	<b>19,55</b>	<b>19,47</b>	<b>19,73</b>
Basic iron and steel products	2,86	2,77	2,82	2,92
Non-ferrous metal products (including precious metals)	3,74	3,48	3,26	3,32
Structural metal products	1,92	1,97	1,98	1,99
Other fabricated metal products	3,33	3,32	3,35	3,53
General purpose machinery	3,35	3,36	3,46	3,42
Special purpose machinery	3,93	3,93	3,87	3,85
Household appliances	0,69	0,71	0,73	0,70
<b>Electrical machinery</b>	<b>2,55</b>	<b>2,42</b>	<b>2,31</b>	<b>2,21</b>
<b>Radio, television and communication apparatus and professional equipment</b>	<b>1,46</b>	<b>1,34</b>	<b>1,21</b>	<b>1,07</b>
Radio, television and communication apparatus	0,43	0,29	0,13	0,04
Professional equipment	1,03	1,05	1,08	1,03
<b>Motor vehicles, parts and accessories and other transport equipment</b>	<b>8,63</b>	<b>8,56</b>	<b>8,66</b>	<b>8,89</b>
Motor vehicles	2,51	2,61	2,65	2,78
Bodies for motor vehicles, trailers and semi-trailers	0,66	0,68	0,71	0,73
Parts and accessories	4,10	3,91	3,93	3,97
Other transport equipment	1,36	1,36	1,37	1,40
<b>Furniture and other manufacturing</b>	<b>4,22</b>	<b>4,26</b>	<b>4,21</b>	<b>4,27</b>
Furniture	0,88	0,91	0,86	0,78
Other manufacturing groups	3,34	3,35	3,35	3,49
<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 – May 2023

	Lower limit (R million)	Estimate (R million)	Upper limit (R million)	Relative standard error (RSE) %
Total sales	265 701	268 890	272 078	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 or assembly or other services rendered.

## Symbols and abbreviations

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

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## 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 11 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.

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