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STATISTICAL RELEASE

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Manufacturing: Production and sales (Preliminary)

June 2022

The results published in the next publication (July 2022) will be based on a new sample. This is an annual procedure which typically affects the level of sales. To avoid breaks in time series and to minimise revisions to historical growth rates, historical sales levels will be revised (i.e. they will be linked to the estimates based on the new sample).

This release provides an analysis of revisions. If you have any questions or comments, please send these to Nicolai Claassen, nicolaic@statssa.gov.za.

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Production: results for June 2022

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

	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Year-on-year % change, unadjusted	3,1	1,8	0,2	-7,3	-1,8	-3,5
Month-on-month % change, seasonally adjusted	2,3	-1,0	0,8	-5,4	0,2	-1,5
3-month % change, seasonally adjusted ¹	4,1	3,8	4,6	-0,4	-2,6	-5,5

¹ Percentage change between the previous 3 months and the 3 months ending in the month indicated.

Manufacturing production decreased by 3,5% in June 2022 compared with June 2021. The largest contributions were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (-17,0% and contributing -1,8 percentage points);
- food and beverages (-3,8% and contributing -0,8 of a percentage point); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (-2,9% and contributing -0,6 of a percentage point) – see Tables 5 and 6.

Seasonally adjusted manufacturing production decreased by 1,5% in June 2022 compared with May 2022. This followed month-on-month changes of 0,2% in May 2022 and -5,4% in April 2022 – see Table A.

Seasonally adjusted manufacturing production decreased by 5,5% in the second quarter of 2022 compared with the first quarter of 2022. Eight of the ten manufacturing divisions reported negative growth rates over this period.

The largest contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-6,4% and contributing -1,4 percentage points);
- food and beverages (-5,6% and contributing -1,3 percentage points); and
- motor vehicles, parts and accessories and other transport equipment (-11,2% and contributing -1,1 percentage points) – 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	Weights	Jan – Mar 2022	Apr – Jun 2022	% change between Jan – Mar 2022 and Apr – Jun 2022	Contribution (% points) to the total % change
Food and beverages	20,75	105,0	99,1	-5,6	-1,3
Meat, fish, fruit, etc.	3,27	105,6	101,5	-3,9	-0,1
Dairy products	1,39	87,6	87,7	0,1	0,0
Grain mill products	1,68	105,4	101,5	-3,7	-0,1
Other food products	7,75	99,4	91,2	-8,2	-0,7
Beverages	6,66	114,8	108,9	-5,1	-0,4
Textiles, clothing, leather and footwear	4,26	101,3	89,4	-11,7	-0,5
Textiles	1,08	113,9	111,4	-2,2	0,0
Other textile products	0,61	92,7	84,6	-8,7	-0,1
Knitted, crocheted articles	0,06	80,5	80,1	-0,5	0,0
Wearing apparel	1,98	101,1	79,3	-21,6	-0,4
Leather and leather products	0,27	84,3	84,1	-0,2	0,0
Footwear	0,25	93,5	93,9	0,4	0,0
Wood and wood products, paper, publishing and printing	10,63	92,3	89,1	-3,5	-0,4
Sawmilling and planing of wood	0,87	87,2	88,2	1,1	0,0
Products of wood	0,88	104,0	97,0	-6,7	-0,1
Paper and paper products	5,34	95,7	90,7	-5,2	-0,3
Publishing	2,18	82,5	78,2	-5,2	-0,1
Printing, recorded media	1,35	90,6	95,6	5,5	0,1
Petroleum, chemical products, rubber and plastic products	24,95	85,6	80,1	-6,4	-1,4
Coke, petroleum products and nuclear fuel	11,85	71,5	55,8	-22,0	-1,9
Basic chemicals	3,50	101,6	110,8	9,1	0,3
Other chemical products	6,64	96,7	98,9	2,3	0,2
Rubber products	0,76	96,4	94,5	-2,0	0,0
Plastic products	2,20	98,7	99,9	1,2	0,0
Glass and non-metallic mineral products	3,24	101,1	101,7	0,6	0,0
Glass and glass products	0,49	101,9	108,1	6,1	0,0
Non-metallic mineral products	2,75	100,9	100,6	-0,3	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	97,8	94,8	-3,1	-0,6
Basic iron and steel products	2,92	89,0	83,0	-6,7	-0,2
Non-ferrous metal products	3,32	92,5	86,4	-6,6	-0,2
Structural metal products	1,99	95,1	86,4	-9,1	-0,2
Other fabricated metal products	3,53	104,8	95,9	-8,5	-0,3
General purpose machinery	3,42	104,8	104,5	-0,3	0,0
Special purpose machinery	3,85	97,8	104,7	7,1	0,3
Household appliances	0,70	96,9	100,7	3,9	0,0
Electrical machinery	2,21	108,2	96,4	-10,9	-0,3
Radio, television and communication apparatus and professional equipment	1,07	104,0	101,1	-2,8	0,0
Radio, television and communication apparatus	0,04	85,8	83,7	-2,4	0,0
Professional equipment	1,03	104,8	101,8	-2,9	0,0
Motor vehicles, parts and accessories and other transport equipment	8,89	102,0	90,6	-11,2	-1,1
Motor vehicles	2,78	106,9	86,3	-19,3	-0,6
Bodies for motor vehicles, trailers and semi-trailers	0,73	107,6	115,0	6,9	0,1
Parts and accessories	3,97	100,2	88,2	-12,0	-0,5
Other transport equipment	1,40	94,7	93,4	-1,4	0,0
Furniture and other manufacturing	4,27	90,4	90,6	0,2	0,0
Furniture	0,78	98,2	89,4	-9,0	-0,1
Other manufacturing groups	3,49	88,7	90,8	2,4	0,1
Total	100	96,3	91,0	-5,5	-5,5

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

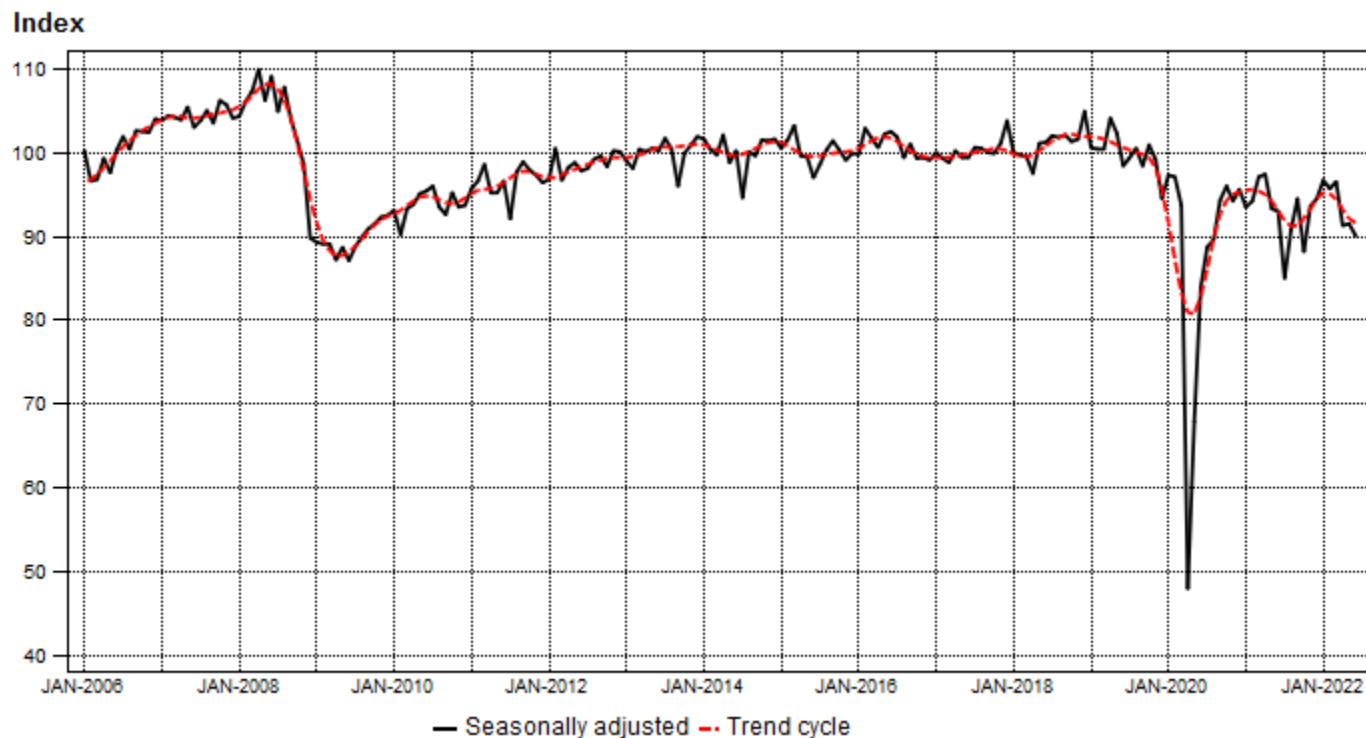
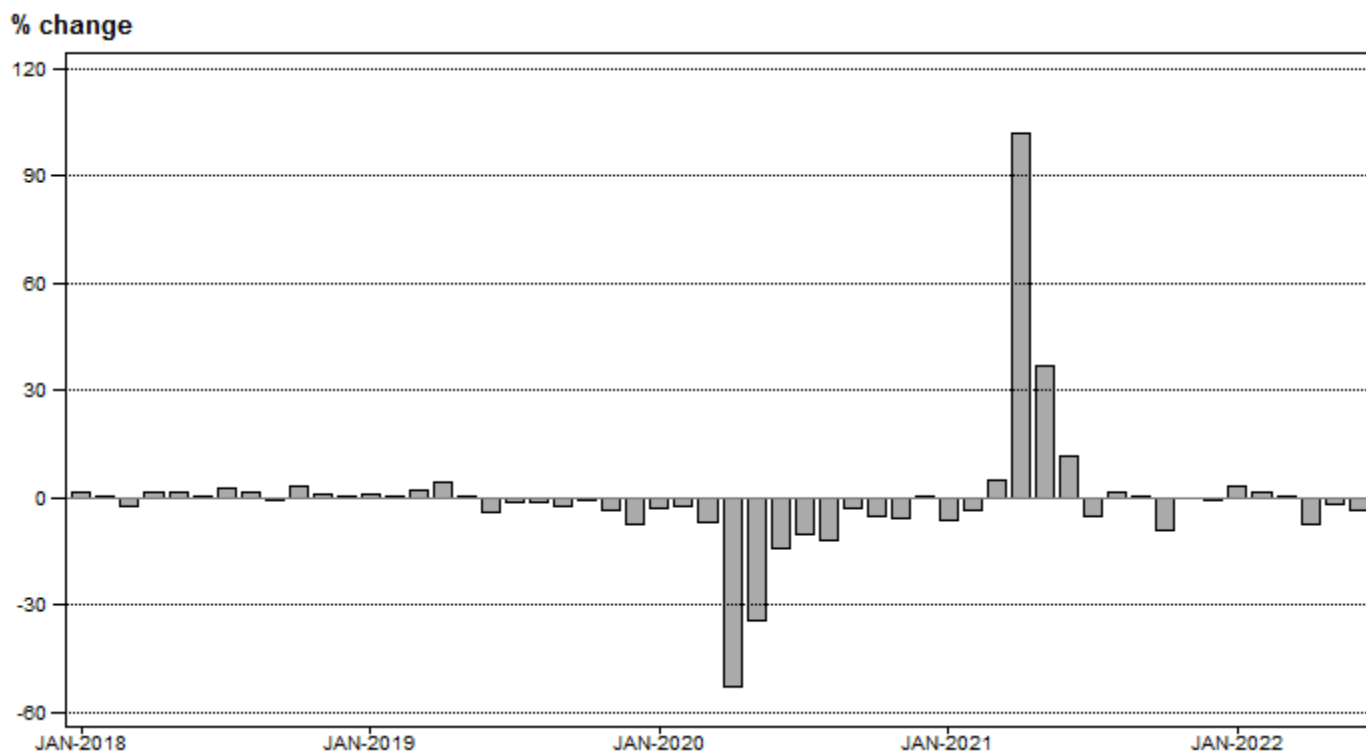


Figure 2 – Volume of manufacturing production (Base: 2019=100): year-on-year percentage change



Sales: results for June 2022**Table C – Key growth rates in manufacturing sales at current prices**

	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Year-on-year % change, unadjusted	13,6	10,7	8,5	3,8	11,6	9,3
Month-on-month % change, seasonally adjusted	4,0	-0,1	3,4	-3,5	3,0	-0,2
3-month % change, seasonally adjusted ¹	8,1	8,1	9,3	4,3	3,2	0,5

¹ Percentage change between the previous 3 months and the 3 months ending in the month indicated.

Seasonally adjusted manufacturing sales decreased by 0,2% in June 2022 compared with May 2022. This followed month-on-month changes of 3,0% in May 2022 and -3,5% in April 2022 – see Table C.

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

Manufacturing division	Jan – Mar 2022 (R million)	Apr – Jun 2022 (R million)	% change between Jan – Mar 2022 and Apr – Jun 2022	Contribution (% points) to the total % change
Food and beverages	170 829	175 295	2,6	0,6
Textiles, clothing, leather and footwear	16 265	15 101	-7,2	-0,2
Wood and wood products, paper, publishing and printing	43 764	41 269	-5,7	-0,4
Petroleum, chemical products, rubber and plastic products	130 394	139 075	6,7	1,2
Glass and non-metallic mineral products	19 708	19 649	-0,3	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	176 364	173 617	-1,6	-0,4
Electrical machinery	17 665	17 430	-1,3	0,0
Radio, television and communication apparatus and professional equipment	6 732	6 518	-3,2	0,0
Motor vehicles, parts and accessories and other transport equipment	94 038	91 784	-2,4	-0,3
Furniture and other manufacturing	26 235	26 061	-0,7	0,0
Total	701 992	705 795	0,5	0,5

Seasonally adjusted manufacturing sales increased by 0,5% in the second quarter of 2022 compared with the first quarter of 2022. The largest contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (6,7% and contributing 1,2 percentage points); and
- food and beverages (2,6% and contributing 0,6 of a percentage point) – see Table D.

Risenga Maluleke
Statistician-General

Tables

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

Month	2016	2017	2018	2019	2020	2021	2022 ¹
Jan	84,8	85,7	87,1	88,0	85,6	80,3	82,8
Feb	98,2	94,3	94,5	94,9	92,4	89,3	90,9
Mar	101,5	101,5	98,9	101,2	94,4	98,9	99,1
Apr	95,5	90,5	91,9	95,8	45,0	91,0	84,4
May	101,2	100,1	101,8	102,0	67,0	91,9	90,2
Jun	104,0	101,5	101,9	97,8	83,8	93,7	90,4
Jul	102,2	100,6	103,2	101,8	91,3	86,7	
Aug	103,7	105,0	106,6	105,2	92,8	94,3	
Sep	107,8	105,4	104,9	102,6	99,3	99,8	
Oct	107,6	109,8	113,4	112,7	106,8	97,3	
Nov	112,1	114,0	115,3	111,0	104,7	104,7	
Dec	91,1	93,2	93,7	86,8	87,3	86,7	
Total	100,8	100,1	101,1	100,0	87,5	92,9	

¹ The latest three months are preliminary.

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

Month	2017	2018	2019	2020	2021	2022	2022 year-to-date
Jan	1,1	1,6	1,0	-2,7	-6,2	3,1	3,1
Feb	-4,0	0,2	0,4	-2,6	-3,4	1,8	2,5
Mar	0,0	-2,6	2,3	-6,7	4,8	0,2	1,6
Apr	-5,2	1,5	4,2	-53,0	102,2	-7,3	-0,7
May	-1,1	1,7	0,2	-34,3	37,2	-1,8	-0,9
Jun	-2,4	0,4	-4,0	-14,3	11,8	-3,5	-1,4
Jul	-1,6	2,6	-1,4	-10,3	-5,0		
Aug	1,3	1,5	-1,3	-11,8	1,6		
Sep	-2,2	-0,5	-2,2	-3,2	0,5		
Oct	2,0	3,3	-0,6	-5,2	-8,9		
Nov	1,7	1,1	-3,7	-5,7	0,0		
Dec	2,3	0,5	-7,4	0,6	-0,7		
Total	-0,7	1,0	-1,1	-12,5	6,2		

Table 3 – Seasonally adjusted volume of manufacturing production

Month	Index (Base: 2019=100)				Month-on-month % change			
	2019	2020	2021	2022	2019	2020	2021	2022
Jan	100,6	97,3	93,5	96,7	-4,1	3,0	-2,2	2,3
Feb	100,4	97,1	94,2	95,7	-0,2	-0,2	0,7	-1,0
Mar	100,4	93,7	97,1	96,5	0,0	-3,5	3,1	0,8
Apr	104,1	48,0	97,4	91,3	3,7	-48,8	0,3	-5,4
May	102,3	67,9	93,3	91,5	-1,7	41,5	-4,2	0,2
Jun	98,4	83,9	93,0	90,1	-3,8	23,6	-0,3	-1,5
Jul	99,4	88,7	85,0		1,0	5,7	-8,6	
Aug	100,5	89,6	90,8		1,1	1,0	6,8	
Sep	98,4	94,3	94,5		-2,1	5,2	4,1	
Oct	100,9	96,0	88,2		2,5	1,8	-6,7	
Nov	99,2	94,2	93,6		-1,7	-1,9	6,1	
Dec	94,5	95,6	94,5		-4,7	1,5	1,0	

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

Manufacturing division and major group	Weights	Jan-22	Feb-22	Mar-22	¹ Apr-22	¹ May-22	¹ Jun-22
Food and beverages	20,75	89,5	95,8	101,3	92,4	97,0	96,0
Meat, fish, fruit, etc.	3,27	92,2	100,8	110,4	97,7	103,7	98,3
Dairy products	1,39	85,2	78,9	87,5	85,6	78,8	79,3
Grain mill products	1,68	99,5	96,1	105,3	93,7	101,1	102,7
Other food products	7,75	79,6	83,7	81,7	97,4	94,4	93,1
Beverages	6,66	98,1	110,8	121,6	85,0	99,5	100,0
Textiles, clothing, leather and footwear	4,26	69,3	98,7	106,9	81,1	89,2	89,7
Textiles	1,08	87,2	117,2	122,4	101,4	119,7	117,1
Other textile products	0,61	62,0	95,0	106,3	85,4	81,9	82,5
Knitted, crocheted articles	0,06	56,4	86,6	83,0	70,5	96,2	76,9
Wearing apparel	1,98	61,9	94,8	104,6	70,5	74,7	75,3
Leather and leather products	0,27	72,7	85,0	88,1	70,3	89,7	98,9
Footwear	0,25	68,5	75,7	85,9	81,3	88,0	97,0
Wood and wood products, paper, publishing and printing	10,63	85,7	84,0	90,6	77,8	81,6	91,4
Sawmilling and planing of wood	0,87	80,1	87,4	82,1	81,9	90,2	93,2
Products of wood	0,88	91,7	100,3	97,6	89,7	98,7	92,8
Paper and paper products	5,34	91,1	86,0	98,4	79,6	82,0	99,2
Publishing	2,18	78,9	74,8	72,9	65,0	67,9	70,0
Printing, recorded media	1,35	74,8	78,3	89,0	80,6	85,7	92,7
Petroleum, chemical products, rubber and plastic products	24,95	77,8	78,8	90,0	73,7	78,8	76,8
Coke, petroleum products and nuclear fuel	11,85	68,9	65,6	75,0	55,5	50,0	46,4
Basic chemicals	3,50	95,7	87,9	108,9	101,6	117,6	111,2
Other chemical products	6,64	80,2	92,2	101,9	83,7	102,9	103,4
Rubber products	0,76	102,6	89,4	96,5	91,5	91,2	99,5
Plastic products	2,20	81,2	91,6	102,4	91,3	95,7	98,2
Glass and non-metallic mineral products	3,24	80,0	93,1	105,5	94,0	107,4	102,7
Glass and glass products	0,49	90,3	97,2	98,4	98,4	106,4	100,7
Non-metallic mineral products	2,75	78,1	92,3	106,8	93,2	107,6	103,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	83,1	95,1	103,9	90,4	97,6	98,1
Basic iron and steel products	2,92	94,2	94,8	89,3	92,5	86,3	75,7
Non-ferrous metal products	3,32	83,9	88,4	99,8	88,8	89,4	83,9
Structural metal products	1,99	65,7	91,5	108,2	72,0	85,7	104,7
Other fabricated metal products	3,53	88,8	101,6	111,3	86,4	100,3	99,3
General purpose machinery	3,42	78,9	93,2	104,5	87,9	116,2	116,2
Special purpose machinery	3,85	80,1	98,1	109,2	104,0	99,1	106,3
Household appliances	0,70	92,0	97,9	103,0	98,9	105,3	101,2
Electrical machinery	2,21	87,5	105,8	112,0	96,9	97,3	92,5
Radio, television and communication apparatus and professional equipment	1,07	83,7	97,7	111,6	91,4	99,0	106,0
Radio, television and communication apparatus	0,04	62,7	91,1	79,1	59,8	71,6	88,5
Professional equipment	1,03	84,6	98,0	113,0	92,7	100,1	106,7
Motor vehicles, parts and accessories and other transport equipment	8,89	86,7	102,7	113,1	87,7	92,6	91,7
Motor vehicles	2,78	82,3	110,9	122,3	78,6	89,6	79,9
Bodies for motor vehicles, trailers and semi-trailers	0,73	80,3	93,3	116,4	112,7	116,9	137,0
Parts and accessories	3,97	94,1	102,9	106,1	91,4	91,0	92,7
Other transport equipment	1,40	77,7	91,0	113,0	82,4	90,6	88,8
Furniture and other manufacturing	4,27	75,2	91,4	88,0	78,5	87,2	88,7
Furniture	0,78	73,8	82,8	88,3	76,7	88,8	90,1
Other manufacturing groups	3,49	75,5	93,3	87,8	78,9	86,9	88,4
Total	100	82,8	90,9	99,1	84,4	90,2	90,4

¹ The latest three months are preliminary.

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

Manufacturing division and major group	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Food and beverages	13,0	6,8	-3,1	-4,4	-2,6	-3,8
Meat, fish, fruit, etc.	2,9	6,7	7,2	0,7	3,6	-3,7
Dairy products	-11,7	-10,6	-17,1	-3,1	-9,3	-6,7
Grain mill products	16,4	7,4	8,1	1,0	1,6	6,8
Other food products	-8,2	5,9	-10,5	-5,9	-11,6	-16,1
Beverages	63,2	10,5	-0,4	-7,1	6,3	11,4
Textiles, clothing, leather and footwear	2,8	8,5	9,8	-12,5	3,7	-0,8
Textiles	-2,6	7,4	-3,0	-13,3	0,8	-1,0
Other textile products	-9,9	7,1	17,3	-7,1	-6,0	-4,1
Knitted, crocheted articles	-7,1	13,4	0,6	-6,3	19,8	-0,3
Wearing apparel	17,5	13,8	25,1	-11,4	9,4	-0,7
Leather and leather products	-14,3	-0,9	-14,8	-27,1	14,0	13,8
Footwear	0,0	-15,2	-11,1	-13,7	-2,7	-5,8
Wood and wood products, paper, publishing and printing	7,9	-5,0	-3,6	-9,7	-8,2	-3,7
Sawmilling and planing of wood	-1,8	0,6	-17,5	-2,4	-5,4	-4,3
Products of wood	4,3	3,1	-5,7	-8,9	3,2	-7,8
Paper and paper products	9,9	-4,7	1,9	-11,8	-14,3	-4,1
Publishing	16,2	-9,7	-12,3	-11,3	0,4	-6,9
Printing, recorded media	-3,4	-8,3	-2,4	-4,7	-2,8	6,1
Petroleum, chemical products, rubber and plastic products	-4,0	-1,5	6,3	-6,0	9,6	2,0
Coke, petroleum products and nuclear fuel	4,1	9,2	19,0	-7,3	18,2	-5,9
Basic chemicals	-12,5	-9,9	4,0	-1,6	16,4	5,3
Other chemical products	-12,5	-7,1	-3,5	-10,6	1,0	4,3
Rubber products	12,3	-17,2	-13,5	9,6	-5,8	-0,7
Plastic products	2,7	0,5	5,2	0,8	11,7	13,7
Glass and non-metallic mineral products	-5,3	-1,9	-2,4	-4,3	3,0	-2,2
Glass and glass products	-6,7	4,0	-1,9	10,7	3,0	19,9
Non-metallic mineral products	-5,1	-3,0	-2,5	-6,7	3,0	-5,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	1,8	3,8	-1,1	-5,4	-4,6	-2,9
Basic iron and steel products	10,0	22,3	-6,0	1,2	-11,6	-17,4
Non-ferrous metal products	-5,3	-1,7	1,1	-4,4	-6,4	-10,0
Structural metal products	-6,8	-2,2	7,2	-16,5	-14,0	3,2
Other fabricated metal products	1,3	8,1	0,8	-13,3	-4,0	-2,0
General purpose machinery	14,0	0,3	6,5	-12,6	9,2	6,2
Special purpose machinery	0,0	-1,2	-11,4	6,0	-7,6	-1,2
Household appliances	-8,3	5,4	7,7	5,0	0,7	5,0
Electrical machinery	9,6	15,5	14,5	4,6	2,2	-6,0
Radio, television and communication apparatus and professional equipment	12,5	15,8	4,8	1,2	-0,7	10,8
Radio, television and communication apparatus	-1,4	12,1	-16,3	-18,3	-16,2	12,9
Professional equipment	13,1	16,0	5,6	1,9	-0,2	10,7
Motor vehicles, parts and accessories and other transport equipment	-1,6	-5,5	-8,6	-23,3	-17,0	-17,0
Motor vehicles	10,0	10,5	12,3	-26,5	-13,3	-22,3
Bodies for motor vehicles, trailers and semi-trailers	4,8	-12,0	9,1	1,4	6,9	13,7
Parts and accessories	-9,7	-16,9	-26,1	-31,0	-29,5	-24,0
Other transport equipment	4,2	8,6	6,7	3,5	14,0	1,1
Furniture and other manufacturing	2,3	5,1	12,2	9,0	4,3	-2,4
Furniture	13,0	5,1	10,1	6,8	1,0	9,7
Other manufacturing groups	0,3	4,9	12,6	9,6	5,1	-4,7
Total	3,1	1,8	0,2	-7,3	-1,8	-3,5

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

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

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

Manufacturing division and major group	Weights	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Month-on-month % change
Food and beverages	20,75	106,7	102,4	99,2	100,1	98,0	-2,1
Meat, fish, fruit, etc.	3,27	106,0	105,5	102,4	102,8	99,3	-3,4
Dairy products	1,39	88,2	86,2	88,7	86,5	87,8	1,5
Grain mill products	1,68	104,0	102,5	101,4	101,9	101,3	-0,6
Other food products	7,75	103,0	93,8	98,2	91,0	84,4	-7,3
Beverages	6,66	115,8	114,4	100,6	111,7	114,4	2,4
Textiles, clothing, leather and footwear	4,26	100,4	104,8	84,9	90,2	93,0	3,1
Textiles	1,08	113,2	115,3	106,0	113,6	114,7	1,0
Other textile products	0,61	91,9	103,1	87,5	80,3	85,9	7,0
Knitted, crocheted articles	0,06	84,1	79,5	74,5	89,3	76,4	-14,4
Wearing apparel	1,98	99,7	104,5	74,6	80,4	83,0	3,2
Leather and leather products	0,27	85,8	85,7	68,4	85,5	98,3	15,0
Footwear	0,25	91,1	93,0	89,8	96,9	94,9	-2,1
Wood and wood products, paper, publishing and printing	10,63	89,4	90,9	89,6	86,7	91,0	5,0
Sawmilling and planing of wood	0,87	91,3	78,5	87,2	86,4	91,1	5,4
Products of wood	0,88	104,5	99,1	96,4	101,9	92,6	-9,1
Paper and paper products	5,34	90,9	96,0	91,6	85,7	94,9	10,7
Publishing	2,18	80,2	79,1	79,1	78,9	76,6	-2,9
Printing, recorded media	1,35	87,6	92,5	95,3	93,5	97,9	4,7
Petroleum, chemical products, rubber and plastic products	24,95	84,7	89,4	81,0	81,8	77,4	-5,4
Coke, petroleum products and nuclear fuel	11,85	71,5	77,1	60,9	57,0	49,6	-13,0
Basic chemicals	3,50	99,7	107,0	106,9	116,7	108,7	-6,9
Other chemical products	6,64	96,4	98,8	94,7	101,1	100,9	-0,2
Rubber products	0,76	85,0	86,6	104,8	87,2	91,4	4,8
Plastic products	2,20	97,1	100,7	98,4	100,4	100,8	0,4
Glass and non-metallic mineral products	3,24	101,3	101,9	100,7	103,6	100,9	-2,6
Glass and glass products	0,49	103,9	104,5	108,4	108,0	107,9	-0,1
Non-metallic mineral products	2,75	100,8	101,5	99,3	102,9	99,6	-3,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	97,6	97,0	93,8	95,3	95,3	0,0
Basic iron and steel products	2,92	91,7	83,8	87,8	81,4	79,8	-2,0
Non-ferrous metal products	3,32	92,0	94,7	89,3	88,0	81,9	-6,9
Structural metal products	1,99	91,5	103,8	81,2	85,3	92,7	8,7
Other fabricated metal products	3,53	103,1	104,4	90,0	98,6	99,0	0,4
General purpose machinery	3,42	100,8	105,5	95,0	110,7	107,7	-2,7
Special purpose machinery	3,85	101,9	90,3	109,6	100,2	104,3	4,1
Household appliances	0,70	98,4	100,2	101,3	98,9	101,8	2,9
Electrical machinery	2,21	107,3	104,2	102,1	95,5	91,6	-4,1
Radio, television and communication apparatus and professional equipment	1,07	106,0	100,8	98,0	102,6	102,6	0,0
Radio, television and communication apparatus	0,04	92,8	79,9	73,8	79,9	97,5	22,0
Professional equipment	1,03	106,6	101,7	99,0	103,5	102,8	-0,7
Motor vehicles, parts and accessories and other transport equipment	8,89	100,1	100,3	93,3	90,3	88,3	-2,2
Motor vehicles	2,78	105,4	108,0	90,4	88,5	79,9	-9,7
Bodies for motor vehicles, trailers and semi-trailers	0,73	97,5	115,3	110,9	113,1	121,1	7,1
Parts and accessories	3,97	98,7	93,9	91,7	85,0	88,0	3,5
Other transport equipment	1,40	94,9	95,4	94,4	96,8	88,9	-8,2
Furniture and other manufacturing	4,27	86,8	94,8	94,7	89,5	87,6	-2,1
Furniture	0,78	90,7	96,0	90,9	87,7	89,5	2,1
Other manufacturing groups	3,49	85,9	94,5	95,5	89,8	87,2	-2,9
Total	100	95,7	96,5	91,3	91,5	90,1	-1,5

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

Month	2016	2017	2018	2019	2020	2021	2022 ¹
Jan	139 225	149 636	156 666	172 214	171 007	171 152	194 510
Feb	163 356	165 487	176 719	187 842	192 539	198 975	220 287
Mar	172 593	185 940	188 124	204 507	193 836	229 933	249 457
Apr	163 319	160 384	167 557	193 058	94 494	207 693	215 609
May	176 020	182 432	195 219	203 372	140 157	213 056	237 767
Jun	180 107	186 151	195 254	202 998	170 119	219 285	239 748
Jul	173 886	177 739	197 011	206 806	183 456	190 014	
Aug	180 189	189 251	204 516	215 850	189 101	210 625	
Sep	187 502	191 607	208 143	208 597	204 603	222 299	
Oct	186 919	200 251	224 904	226 883	224 572	220 266	
Nov	199 033	217 252	229 912	224 760	228 294	247 072	
Dec	165 055	175 645	184 356	178 414	188 434	207 590	
Total	2 087 204	2 181 775	2 328 381	2 425 301	2 180 612	2 537 960	

¹ The latest three months are preliminary.

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

Month	2017	2018	2019	2020	2021	2022	2022 year-to-date
Jan	7,5	4,7	9,9	-0,7	0,1	13,6	13,6
Feb	1,3	6,8	6,3	2,5	3,3	10,7	12,1
Mar	7,7	1,2	8,7	-5,2	18,6	8,5	10,7
Apr	-1,8	4,5	15,2	-51,1	119,8	3,8	8,9
May	3,6	7,0	4,2	-31,1	52,0	11,6	9,5
Jun	3,4	4,9	4,0	-16,2	28,9	9,3	9,5
Jul	2,2	10,8	5,0	-11,3	3,6		
Aug	5,0	8,1	5,5	-12,4	11,4		
Sep	2,2	8,6	0,2	-1,9	8,6		
Oct	7,1	12,3	0,9	-1,0	-1,9		
Nov	9,2	5,8	-2,2	1,6	8,2		
Dec	6,4	5,0	-3,2	5,6	10,2		
Total	4,5	6,7	4,2	-10,1	16,4		

Table 10 – Seasonally adjusted manufacturing sales at current prices

Month	R million				Month-on-month % change			
	2019	2020	2021	2022	2019	2020	2021	2022
Jan	202 114	198 918	202 681	231 560	-0,2	2,9	-0,7	4,0
Feb	198 484	201 527	208 683	231 289	-1,8	1,3	3,0	-0,1
Mar	200 997	189 262	221 591	239 143	1,3	-6,1	6,2	3,4
Apr	208 193	100 948	220 117	230 759	3,6	-46,7	-0,7	-3,5
May	200 084	140 795	215 419	237 736	-3,9	39,5	-2,1	3,0
Jun	203 480	168 004	216 115	237 300	1,7	19,3	0,3	-0,2
Jul	204 498	180 024	189 118		0,5	7,2	-12,5	
Aug	209 280	187 082	206 435		2,3	3,9	9,2	
Sep	202 821	196 741	214 222		-3,1	5,2	3,8	
Oct	203 883	202 389	201 586		0,5	2,9	-5,9	
Nov	198 340	204 092	218 167		-2,7	0,8	8,2	
Dec	193 336	204 066	222 732		-2,5	0,0	2,1	

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

Manufacturing division and major group	Jan-22	Feb-22	Mar-22	¹ Apr-22	¹ May-22	¹ Jun-22
Food and beverages	49 199	51 636	58 401	54 357	55 945	56 625
Meat, fish, fruit, etc.	14 621	15 089	18 419	16 653	17 685	17 749
Dairy products	4 110	3 893	4 679	4 216	4 277	4 398
Grain mill products	8 296	8 189	9 672	9 214	9 745	10 116
Other food products	8 807	9 101	9 296	10 934	10 038	10 601
Beverages	13 365	15 364	16 335	13 340	14 199	13 761
Textiles, clothing, leather and footwear	3 679	5 112	5 696	4 641	5 227	4 791
Textiles	628	768	843	705	798	782
Other textile products	1 031	1 625	1 773	1 429	1 519	1 454
Knitted, crocheted articles	131	178	213	162	229	201
Wearing apparel	1 111	1 604	1 862	1 431	1 614	1 223
Leather and leather products	375	478	477	398	508	518
Footwear	403	459	528	515	559	612
Wood and wood products, paper, publishing and printing	13 273	13 224	14 371	11 837	12 365	14 992
Sawmilling and planing of wood	796	901	919	875	932	989
Products of wood	1 798	1 952	1 944	1 822	1 876	1 973
Paper and paper products	7 257	6 975	7 972	5 734	6 028	8 072
Publishing	1 286	1 132	1 089	945	1 026	1 062
Printing, recorded media	2 136	2 265	2 447	2 462	2 504	2 896
Petroleum, chemical products, rubber and plastic products	37 360	39 028	45 798	39 760	48 448	48 254
Coke, petroleum products and nuclear fuel	8 756	8 846	9 999	8 574	10 708	11 385
Basic chemicals	9 365	9 470	11 566	9 869	12 466	11 523
Other chemical products	11 442	11 930	14 556	12 454	15 933	15 332
Rubber products	1 352	1 601	1 721	1 795	1 554	1 924
Plastic products	6 444	7 181	7 955	7 067	7 787	8 090
Glass and non-metallic mineral products	4 972	6 197	6 638	5 755	6 997	6 893
Glass and glass products	1 136	1 305	1 298	1 246	1 445	1 438
Non-metallic mineral products	3 836	4 892	5 340	4 509	5 552	5 455
Basic iron and steel, non-ferrous metal products, metal products and machinery	49 585	55 804	64 671	52 745	60 856	61 549
Basic iron and steel products	14 442	14 232	16 246	12 877	14 967	16 537
Non-ferrous metal products	16 682	19 398	22 428	18 628	20 564	19 264
Structural metal products	2 546	3 268	4 272	3 044	3 553	4 321
Other fabricated metal products	6 539	7 713	8 649	7 090	8 105	8 407
General purpose machinery	3 457	4 094	4 636	3 954	5 269	5 180
Special purpose machinery	4 780	5 803	6 964	5 888	7 020	6 446
Household appliances	1 139	1 296	1 475	1 264	1 378	1 393
Electrical machinery	4 657	5 793	6 365	5 639	5 693	5 606
Radio, television and communication apparatus and professional equipment	1 720	2 147	2 293	1 795	2 048	2 244
Radio, television and communication apparatus	804	1 084	1 098	774	878	1 039
Professional equipment	916	1 063	1 195	1 021	1 170	1 205
Motor vehicles, parts and accessories and other transport equipment	23 408	33 182	35 668	30 498	31 849	30 556
Motor vehicles	13 245	20 200	20 956	18 877	19 490	17 779
Bodies for motor vehicles, trailers and semi-trailers	897	1 126	1 427	1 346	1 510	1 798
Parts and accessories	6 978	9 146	9 831	7 712	7 983	8 110
Other transport equipment	2 288	2 711	3 453	2 563	2 867	2 869
Furniture and other manufacturing	6 657	8 163	9 557	8 582	8 337	8 238
Furniture	1 216	1 382	1 506	1 287	1 502	1 518
Other manufacturing groups	5 442	6 781	8 051	7 295	6 835	6 720
Total	194 510	220 287	249 457	215 609	237 767	239 748

¹ The latest three months are preliminary.

Table 12 – Year-on-year percentage change in manufacturing sales at current prices by division and major group

Manufacturing division and major group	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Food and beverages	24,1	2,4	6,8	7,6	8,9	11,0
Meat, fish, fruit, etc.	19,3	14,0	21,3	13,8	19,1	13,1
Dairy products	-5,9	-2,1	-3,7	3,7	5,9	8,2
Grain mill products	16,2	11,1	15,2	19,7	17,8	24,5
Other food products	-13,8	-5,7	-5,0	-1,8	-13,8	-9,6
Beverages	135,2	-5,1	-0,6	2,7	12,8	20,5
Textiles, clothing, leather and footwear	1,7	11,6	14,3	-4,2	13,8	3,4
Textiles	8,3	6,1	8,5	-6,3	5,3	5,1
Other textile products	-3,5	14,7	19,1	-4,2	6,5	3,3
Knitted, crocheted articles	-5,8	5,3	11,5	-4,1	18,0	21,1
Wearing apparel	22,2	23,5	31,1	6,3	33,2	-2,4
Leather and leather products	-19,4	5,1	-11,8	-25,6	14,7	14,1
Footwear	-11,8	-11,4	-6,4	-6,4	0,0	0,8
Wood and wood products, paper, publishing and printing	15,8	3,3	4,3	-4,8	-6,7	6,1
Sawmilling and planing of wood	0,6	8,3	0,3	-1,7	-3,4	1,0
Products of wood	14,8	16,5	8,2	6,0	11,3	10,3
Paper and paper products	20,0	3,1	6,5	-11,7	-17,0	1,9
Publishing	33,5	-5,2	-5,6	-6,3	10,0	-0,7
Printing, recorded media	1,9	-3,1	1,2	5,9	4,2	21,7
Petroleum, chemical products, rubber and plastic products	11,0	15,9	20,8	8,5	28,9	22,4
Coke, petroleum products and nuclear fuel	7,6	39,8	29,6	8,4	26,0	29,4
Basic chemicals	16,3	20,3	25,8	4,8	41,4	16,2
Other chemical products	3,1	0,8	12,4	5,7	28,3	20,4
Rubber products	3,3	-6,8	4,9	24,4	-0,4	14,9
Plastic products	27,7	21,4	24,2	15,7	23,6	28,6
Glass and non-metallic mineral products	0,3	11,1	3,7	-0,3	11,0	7,5
Glass and glass products	-1,4	14,7	3,6	13,1	24,4	18,7
Non-metallic mineral products	0,8	10,1	3,7	-3,5	8,0	4,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	21,8	25,4	7,4	6,6	16,7	11,9
Basic iron and steel products	54,6	53,7	28,6	5,8	25,3	25,5
Non-ferrous metal products	10,2	25,4	-8,2	7,3	12,5	-0,3
Structural metal products	11,2	4,7	12,2	7,7	3,1	16,0
Other fabricated metal products	15,9	22,8	17,9	4,3	14,5	16,9
General purpose machinery	19,7	10,1	11,8	0,6	24,6	18,6
Special purpose machinery	10,8	5,5	5,9	13,3	18,2	7,8
Household appliances	4,4	11,1	16,4	6,8	12,0	12,2
Electrical machinery	19,8	14,7	19,1	21,1	14,3	10,5
Radio, television and communication apparatus and professional equipment	18,2	13,1	-0,1	0,2	1,6	16,1
Radio, television and communication apparatus	16,5	11,1	-6,2	-7,0	-5,5	12,1
Professional equipment	19,7	15,3	6,2	6,4	7,6	19,7
Motor vehicles, parts and accessories and other transport equipment	-10,2	1,7	-1,4	-11,6	-3,8	-9,2
Motor vehicles	-10,8	4,8	1,3	-9,1	0,1	-14,4
Bodies for motor vehicles, trailers and semi-trailers	14,0	-1,2	15,5	14,3	26,1	33,7
Parts and accessories	-17,5	-8,1	-13,4	-25,6	-22,0	-11,1
Other transport equipment	14,7	20,1	19,5	17,2	30,9	17,7
Furniture and other manufacturing	17,2	4,3	16,5	21,8	8,6	3,2
Furniture	38,0	13,5	22,7	18,7	14,9	22,9
Other manufacturing groups	13,4	2,6	15,4	22,3	7,3	-0,4
Total	13,6	10,7	8,5	3,8	11,6	9,3

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	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Food and beverages	5,6	0,6	1,6	1,8	2,1	2,6
Meat, fish, fruit, etc.	1,4	0,9	1,4	1,0	1,3	0,9
Dairy products	-0,2	0,0	-0,1	0,1	0,1	0,2
Grain mill products	0,7	0,4	0,6	0,7	0,7	0,9
Other food products	-0,8	-0,3	-0,2	-0,1	-0,8	-0,5
Beverages	4,5	-0,4	0,0	0,2	0,8	1,1
Textiles, clothing, leather and footwear	0,0	0,3	0,3	-0,1	0,3	0,1
Textiles	0,0	0,0	0,0	0,0	0,0	0,0
Other textile products	0,0	0,1	0,1	0,0	0,0	0,0
Knitted, crocheted articles	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	0,1	0,2	0,2	0,0	0,2	0,0
Leather and leather products	-0,1	0,0	0,0	-0,1	0,0	0,0
Footwear	0,0	0,0	0,0	0,0	0,0	0,0
Wood and wood products, paper, publishing and printing	1,1	0,2	0,3	-0,3	-0,4	0,4
Sawmilling and planing of wood	0,0	0,0	0,0	0,0	0,0	0,0
Products of wood	0,1	0,1	0,1	0,0	0,1	0,1
Paper and paper products	0,7	0,1	0,2	-0,4	-0,6	0,1
Publishing	0,2	0,0	0,0	0,0	0,0	0,0
Printing, recorded media	0,0	0,0	0,0	0,1	0,0	0,2
Petroleum, chemical products, rubber and plastic products	2,2	2,7	3,4	1,5	5,1	4,0
Coke, petroleum products and nuclear fuel	0,4	1,3	1,0	0,3	1,0	1,2
Basic chemicals	0,8	0,8	1,0	0,2	1,7	0,7
Other chemical products	0,2	0,0	0,7	0,3	1,6	1,2
Rubber products	0,0	-0,1	0,0	0,2	0,0	0,1
Plastic products	0,8	0,6	0,7	0,5	0,7	0,8
Glass and non-metallic mineral products	0,0	0,3	0,1	0,0	0,3	0,2
Glass and glass products	0,0	0,1	0,0	0,1	0,1	0,1
Non-metallic mineral products	0,0	0,2	0,1	-0,1	0,2	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	5,2	5,7	1,9	1,6	4,1	3,0
Basic iron and steel products	3,0	2,5	1,6	0,3	1,4	1,5
Non-ferrous metal products	0,9	2,0	-0,9	0,6	1,1	0,0
Structural metal products	0,1	0,1	0,2	0,1	0,1	0,3
Other fabricated metal products	0,5	0,7	0,6	0,1	0,5	0,6
General purpose machinery	0,3	0,2	0,2	0,0	0,5	0,4
Special purpose machinery	0,3	0,2	0,2	0,3	0,5	0,2
Household appliances	0,0	0,1	0,1	0,0	0,1	0,1
Electrical machinery	0,4	0,4	0,4	0,5	0,3	0,2
Radio, television and communication apparatus and professional equipment	0,2	0,1	0,0	0,0	0,0	0,1
Radio, television and communication apparatus	0,1	0,1	0,0	0,0	0,0	0,1
Professional equipment	0,1	0,1	0,0	0,0	0,0	0,1
Motor vehicles, parts and accessories and other transport equipment	-1,6	0,3	-0,2	-1,9	-0,6	-1,4
Motor vehicles	-0,9	0,5	0,1	-0,9	0,0	-1,4
Bodies for motor vehicles, trailers and semi-trailers	0,1	0,0	0,1	0,1	0,1	0,2
Parts and accessories	-0,9	-0,4	-0,7	-1,3	-1,1	-0,5
Other transport equipment	0,2	0,2	0,2	0,2	0,3	0,2
Furniture and other manufacturing	0,6	0,2	0,6	0,7	0,3	0,1
Furniture	0,2	0,1	0,1	0,1	0,1	0,1
Other manufacturing groups	0,4	0,1	0,5	0,6	0,2	0,0
Total	13,6	10,7	8,5	3,8	11,6	9,3

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

Manufacturing division and major group	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Month-on-month % change
Food and beverages	56 197	57 438	57 846	58 315	59 134	1,4
Meat, fish, fruit, etc.	16 798	17 754	17 592	17 890	17 796	-0,5
Dairy products	4 363	4 435	4 432	4 530	4 697	3,7
Grain mill products	9 067	9 291	9 842	9 661	10 017	3,7
Other food products	10 180	10 086	10 600	10 015	10 422	4,1
Beverages	15 789	15 872	15 380	16 218	16 202	-0,1
Textiles, clothing, leather and footwear	5 468	5 638	4 915	5 280	4 906	-7,1
Textiles	782	797	758	763	769	0,8
Other textile products	1 632	1 797	1 418	1 496	1 480	-1,1
Knitted, crocheted articles	189	197	172	205	196	-4,4
Wearing apparel	1 775	1 804	1 565	1 727	1 343	-22,2
Leather and leather products	518	450	411	486	503	3,5
Footwear	572	592	590	603	614	1,8
Wood and wood products, paper, publishing and printing	13 983	14 224	13 754	12 873	14 642	13,7
Sawmilling and planing of wood	930	893	915	879	945	7,5
Products of wood	2 044	1 974	1 958	1 954	1 860	-4,8
Paper and paper products	7 333	7 628	6 844	6 143	7 535	22,7
Publishing	1 166	1 167	1 141	1 198	1 170	-2,3
Printing, recorded media	2 510	2 562	2 896	2 700	3 133	16,0
Petroleum, chemical products, rubber and plastic products	42 924	45 168	43 342	48 695	47 038	-3,4
Coke, petroleum products and nuclear fuel	10 308	10 467	9 251	10 479	10 509	0,3
Basic chemicals	10 502	11 247	10 818	12 425	11 227	-9,6
Other chemical products	12 990	13 960	13 699	16 241	15 362	-5,4
Rubber products	1 530	1 581	2 029	1 556	1 801	15,7
Plastic products	7 594	7 913	7 545	7 994	8 138	1,8
Glass and non-metallic mineral products	6 651	6 526	6 332	6 693	6 624	-1,0
Glass and glass products	1 429	1 421	1 435	1 495	1 486	-0,6
Non-metallic mineral products	5 222	5 105	4 896	5 198	5 138	-1,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	58 150	60 014	56 016	58 809	58 792	0,0
Basic iron and steel products	14 951	14 864	13 713	14 446	15 143	4,8
Non-ferrous metal products	20 189	21 242	19 155	19 816	19 169	-3,3
Structural metal products	3 359	3 974	3 595	3 513	3 769	7,3
Other fabricated metal products	8 025	8 114	7 544	8 004	8 261	3,2
General purpose machinery	4 380	4 484	4 179	4 952	4 780	-3,5
Special purpose machinery	5 946	6 005	6 519	6 749	6 335	-6,1
Household appliances	1 300	1 331	1 310	1 329	1 335	0,5
Electrical machinery	5 768	5 887	6 048	5 749	5 633	-2,0
Radio, television and communication apparatus and professional equipment	2 258	2 145	2 088	2 164	2 266	4,7
Radio, television and communication apparatus	1 120	1 037	998	1 002	1 118	11,6
Professional equipment	1 138	1 107	1 090	1 162	1 147	-1,3
Motor vehicles, parts and accessories and other transport equipment	31 743	32 870	31 220	30 740	29 824	-3,0
Motor vehicles	19 303	20 369	18 919	18 588	17 416	-6,3
Bodies for motor vehicles, trailers and semi-trailers	1 227	1 344	1 389	1 456	1 575	8,2
Parts and accessories	8 369	8 251	7 999	7 620	7 983	4,8
Other transport equipment	2 844	2 906	2 913	3 076	2 850	-7,3
Furniture and other manufacturing	8 148	9 233	9 199	8 419	8 443	0,3
Furniture	1 491	1 609	1 520	1 498	1 533	2,3
Other manufacturing groups	6 657	7 624	7 679	6 921	6 911	-0,1
Total	231 289	239 143	230 759	237 736	237 300	-0,2

Analysis of revisions

Introduction

Preliminary monthly indices for manufacturing production are published approximately six weeks after the reference month, e.g. preliminary manufacturing production for April are published around the second week of June. The preliminary values are revised the following month, using additional information received from respondents. This and other reasons for revising manufacturing production from time to time are shown in the following revisions schedule.

Revisions schedule for manufacturing production

Reason for revision	Schedule
Additional information from respondents	Monthly (revision of the previous three months)
New sample	Annual (July reference month published in September)
New weights for manufacturing production	Annually
New base year for manufacturing production	Periodic, approximately four- to five-year intervals

Note that seasonally adjusted values are revised monthly.

Analysis

Revisions may be analysed in terms of several dimensions, namely production indices, rand values and/or growth rates (e.g. month-on-month percentage changes, year-on-year percentage changes); current prices and/or constant prices; seasonally adjusted and/or unadjusted data; totals and/or components; preliminary estimate compared with first revision and/or latest available revision; and various combinations of these options.

This analysis is confined to the following:

- Total manufacturing production, year-on-year growth rate, unadjusted.
- Preliminary growth rates are compared with the latest available revised growth rates, where the preliminary growth rate refers to the first year-on-year growth rate published for the month in question.
- Time period: January 2012 to May 2022.

Figure 3 shows the preliminary and revised growth rates (line chart, left vertical axis) and the difference between them (bar chart, right vertical axis, where difference = revised - preliminary).

Table 15 provides key results relating to revisions.

Figure 3 – Manufacturing production year-on-year growth rates: preliminary and revised

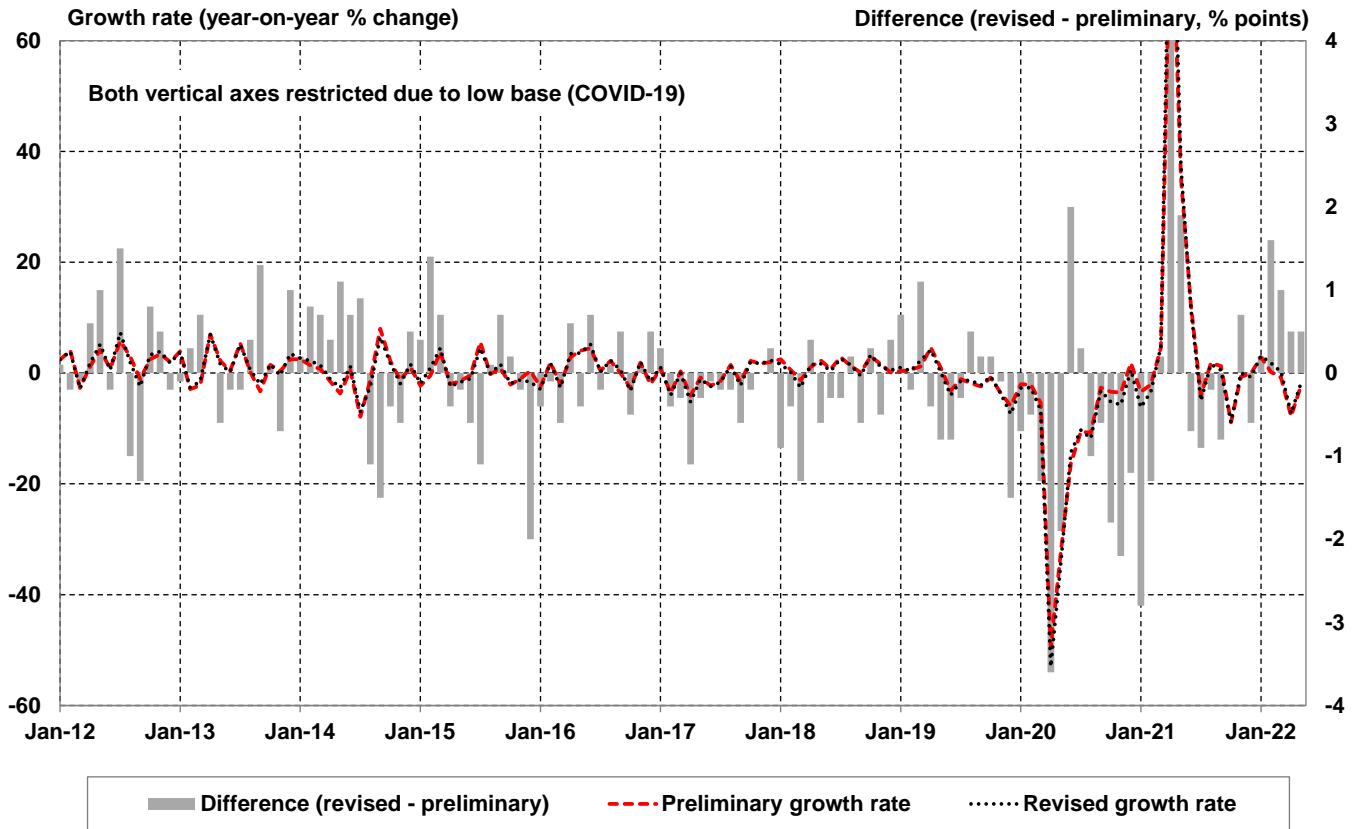


Table 15 – Manufacturing production year-on-year growth rates: preliminary and revised

Description	Value / outcome	Comment
Average year-on-year growth rate over the whole period	Preliminary: 0,23% Revised: 0,21%	The average of revised growth rates is slightly lower than the average of preliminary growth rates
Mean revision	-0,02 of a percentage point	This is the average of the revisions
Mean absolute revision	0,78 of a percentage point	Average of the revisions, but based on the absolute value of each revision (positives and negatives do not cancel each other)
Largest upward revision	14,3 percentage points	Preliminary 87,9% was revised up to 102,2% (April 2021; affected by COVID-19)
Largest downward revision	-3,6 percentage points	Preliminary -49,4% was revised down to -53,0% (April 2020; affected by COVID-19)
Range for all revisions	-3,6 to 14,3 percentage points	

Description	Value / outcome	Comment
Range within which 90% of the revisions lie	-1,7 to 1,4 percentage points	This may be regarded as the normal range for revisions, with revisions outside this range being outliers
Number of upward revisions	54 (or 43,2% of the total observations)	
Number of downward revisions	68 (or 54,4% of the total observations)	
Number of zero revisions	3 (or 2,4% of the total observations)	
Is the mean revision (-0,02) significantly different from zero?	No	This indicates that there is no bias in the preliminary estimate; see Note 1 below
Standard deviation of the revisions	1,56 percentage points	Standard deviation is a measure of dispersion about the mean – see the row below
Percentage of revisions that lie within one standard deviation of the mean	92,0%	This is the percentage of revisions that lie between -1,58 and 1,54 percentage points; the higher the percentage, the lower is the dispersion about the mean; see too Figure 4 below

Note 1: Is the mean revision significantly different from zero?

The formula for the test statistic is as follows:

$$test\ statistic = \frac{\bar{R}}{\sqrt{\left(\frac{1}{n(n-1)}\right) \left(\sum_{t=1}^n \hat{\epsilon}_t^2 + \frac{3}{4} \sum_{t=2}^n \hat{\epsilon}_t \hat{\epsilon}_{t-1} + \frac{2}{3} \sum_{t=3}^n \hat{\epsilon}_t \hat{\epsilon}_{t-2}\right)}}$$

where

$n = number\ of\ observations$

$\bar{R} = mean\ revision$

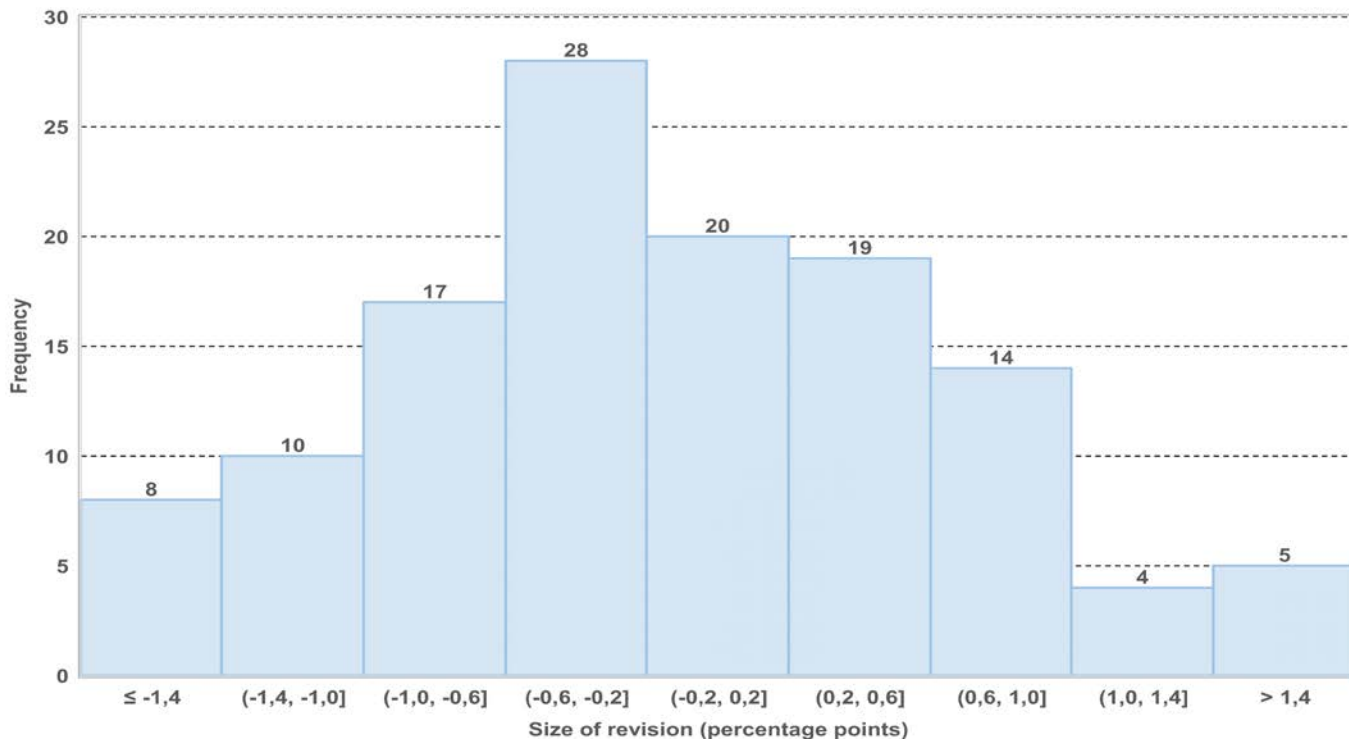
$\hat{\epsilon}_t = R_t - \bar{R}, with\ R_t = revision\ in\ period\ t$

Note that if the test statistic shows that the mean revision (MR) is significantly different from zero, then there is bias in the preliminary estimates. Bias in a series suggests there is scope to enhance the compilation of that series in an attempt to remove or minimise the bias. $MR > 0$ (statistically significant) implies under-estimation of the preliminary estimates. $MR < 0$ (statistically significant) implies over-estimation of the preliminary estimates.

In this case the test statistic is -0,12, which has an absolute value below the critical value of 1,98, indicating that the MR is not significantly different from zero at a 95% confidence interval. Accordingly, no bias is detected in the preliminary estimates.

Figure 4 shows the revisions in terms of a histogram. There were 28 revisions between -0,6 and -0,2 (-0,6 < revision ≤ -0,2) and 20 revisions between -0,2 and 0,2 (-0,2 < revision ≤ 0,2). 78,4% of revisions lay between -1,0 and 1,0 percentage point.

Figure 4 – Manufacturing production year-on-year growth rates: histogram of revisions



Survey information

Introduction	<p>1 Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry, covering manufacturing enterprises. This statistical release contains the results of a sample drawn from the business sampling frame (BSF), with enhanced coverage of South African businesses (see 4). The release contains monthly indices of the volume of manufacturing production and monthly value of sales of manufactured products by division and major group.</p> <p>2 In accordance with international practice, the indices are usually re-based every five years to a new base year. The current base period of the index is 2019. Both estimated and seasonally adjusted figures are presented.</p> <p>3 In order to improve timeliness, some information for the latest month had to be estimated due to late response. These estimates will be revised in future statistical releases as soon as information becomes available.</p> <p>4 Stats SA is continuously updating its BSF, based on units registered for value added tax (VAT) and income tax (IT) obtained from the South African Revenue Service (SARS).</p>
Purpose of the survey	<p>5 The results of the monthly manufacturing production and sales survey are used to calculate the volume of manufacturing production indices in order to estimate the gross domestic product (GDP) and its components, which in turn are used to develop and monitor government policy. These indices provide an indicator of the real level of manufacturing activity in the economy.</p>
Special Data Dissemination Standard of the IMF	<p>6 The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.</p>
Scope of the survey	<p>7 This survey covers manufacturing enterprises, i.e. those conducting activities in -</p> <ul style="list-style-type: none"> • the manufacturing, processing, making or packing of products; • the slaughtering of animals, including poultry; and • installation, assembly, completion, repair and related work.
Classification	<p>8 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>
Collection rate	<p>9 The preliminary collection rate for the survey on manufacturing production and sales was 66,4% for June 2022. The improved collection rate for May 2022 was 68,1%.</p>
Statistical unit	<p>10 The statistical unit for which information is compiled and published is an enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.</p>
Revised figures	<p>11 Revised figures are mainly due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures, as indicated in the relevant tables, are subject to change and when revised will not be indicated as such.</p>
Related publications	<p>12 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 3 050 enterprises from a population of 29 137 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 2021 from Stats SA’s business sampling frame (BSF). Strata were formed using a combination of the SIC and the measure of size classes for enterprises (see point 3 below).

The Neyman optimal allocation formula used to allocate samples to each stratum is given by a formula below:

$$n_h = \frac{N_h S_h}{\sum N_h S_h}$$

N_h and S_h are the stratum population size and the stratum variance respectively.

- Class limits** 3 Each manufacturing major group is divided into four size groups. All large enterprises (size group one) are completely enumerated. Simple random sampling is applied to medium (size group two) and to small (size group three and four) enterprises. The total value of sales of manufactured products of large enterprises (size group one) in a major group is added to the weighted totals of size group two, three and four of that major group to reflect the total value of sales of the major group.

Measure of size classes (Rand)

Enterprise size	Size group	Lower limits	Upper limits
Very small	4	1 717 025	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 production price index (PPI). For 38 of the 44 major groups in manufacturing, the value of production is calculated from the value of sales and stocks of manufactured products obtained from the monthly survey of manufacturing enterprises.
- 7 More direct indicators are used for the value of production of the following major groups:
 - tobacco;
 - coke and refined petroleum products;
 - basic iron and steel products;
 - basic precious and non-ferrous metal products;
 - motor vehicles; and
 - parts and accessories for motor vehicles.

The volume indices for these major groups are calculated on the basis of quantities. This method is used by the national statistical agencies of many other countries for petroleum products as the results are considered more satisfactory (mainly because these commodities are relatively homogeneous).

Index weighting

- 8 For indices, a weight is calculated for every major group according to the value added of the major group (i.e. output of a major group minus intermediate consumption) relative to the total value added of the manufacturing industry as a whole, based on the results of the most recent census of manufacturing, large sample survey (LSS) of the manufacturing industry or national accounts (NA) value added data. The production indices of all divisions are multiplied by the applicable weights and aggregated to produce the index for the total volume of manufacturing production. Weights between census/LSS/NA years are fixed. The table below reflects the period and the census/LSS/NA which were used as base year for the given period.

Period	Source
1998 to 2000	1996 Census of manufacturing
2001 to 2004	2001 LSS
2005 to 2009	2005 LSS
2010 to 2022	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 – 2022 (based on value added for 2017 – 2019)
Food and beverages	19,24	19,76	20,18	20,75
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
Textiles, clothing, leather and footwear	4,55	4,44	4,38	4,26
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
Wood and wood products, paper, publishing and printing	10,88	10,76	10,77	10,63
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
Petroleum, chemical products, rubber and plastic products	24,66	25,25	25,38	24,95
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
Glass and non-metallic mineral products	3,98	3,66	3,42	3,24
Glass and glass products	0,61	0,57	0,51	0,49
Non-metallic mineral products	3,37	3,09	2,91	2,75
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,82	19,55	19,47	19,73
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
Electrical machinery	2,55	2,42	2,31	2,21
Radio, television and communication apparatus and professional equipment	1,46	1,34	1,21	1,07
Radio, television and communication apparatus	0,43	0,29	0,13	0,04
Professional equipment	1,03	1,05	1,08	1,03
Motor vehicles, parts and accessories and other transport equipment	8,63	8,56	8,66	8,89
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
Furniture and other manufacturing	4,22	4,26	4,21	4,27
Furniture	0,88	0,91	0,86	0,78
Other manufacturing groups	3,34	3,35	3,35	3,49
Total	100	100	100	100

- 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.
- Month-on-month percentage change** 14 The month-on-month percentage change in a variable for any given month is the change between that month and the previous month, expressed as a percentage of the latter.
- Year-on-year (annual) percentage change** 15 The year-on-year percentage change in a variable for any given period is the change between that period and the corresponding period of the previous year, expressed as a percentage of the latter.
- Index contribution (percentage points)** 16 The contribution (percentage points) of a major group or division to the total manufacturing production percentage change for a given period is calculated by multiplying the difference in the index of each major group or division by the weight of the major group or division and then dividing by the previous period total manufacturing index.
- Sales contribution (percentage points)** 17 The contribution (percentage points) of a division or major group to the percentage change in total manufacturing sales for a given period is calculated by multiplying the percentage change of each major group or division with its percentage contribution to the total sales of the previous period, divided by 100.

Glossary

Enterprise The enterprise is a legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.

Industry An industry is made up of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the *System of National Accounts (SNA)* in the same way as in the *Standard Industrial Classification of all Economic Activities (SIC)*, Fifth Edition, Report No. 09-90-02 of January 1993.

Sales Sales are the total value of sales and transfers-out of all own manufactured products/articles and the amounts received for installation, erection or assembly or other services rendered.

Symbols and abbreviations

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

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