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Manufacturing: Production and sales (Preliminary)

January 2023

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 January 2023

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

	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
Year-on-year % change, unadjusted	2,0	2,7	0,9	-2,2	-4,5	-3,7
Month-on-month % change, seasonally adjusted	2,1	4,8	-6,0	0,9	0,5	1,1
3-month % change, seasonally adjusted ¹	-2,8	1,8	2,5	2,3	-1,6	-1,0

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

Manufacturing production decreased by 3,7% in January 2023 compared with January 2022. The largest negative contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-10,8% and contributing -2,5 percentage points);
- motor vehicles, parts and accessories and other transport equipment (-7,6% and contributing -0,7 of a percentage point); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (-3,7% and contributing -0,7 of a percentage point) – see Tables 5 and 6.

Seasonally adjusted manufacturing production increased by 1,1% in January 2023 compared with December 2022. This followed month-on-month changes of 0,5% in December 2022 and 0,9% in November 2022 – see Table A.

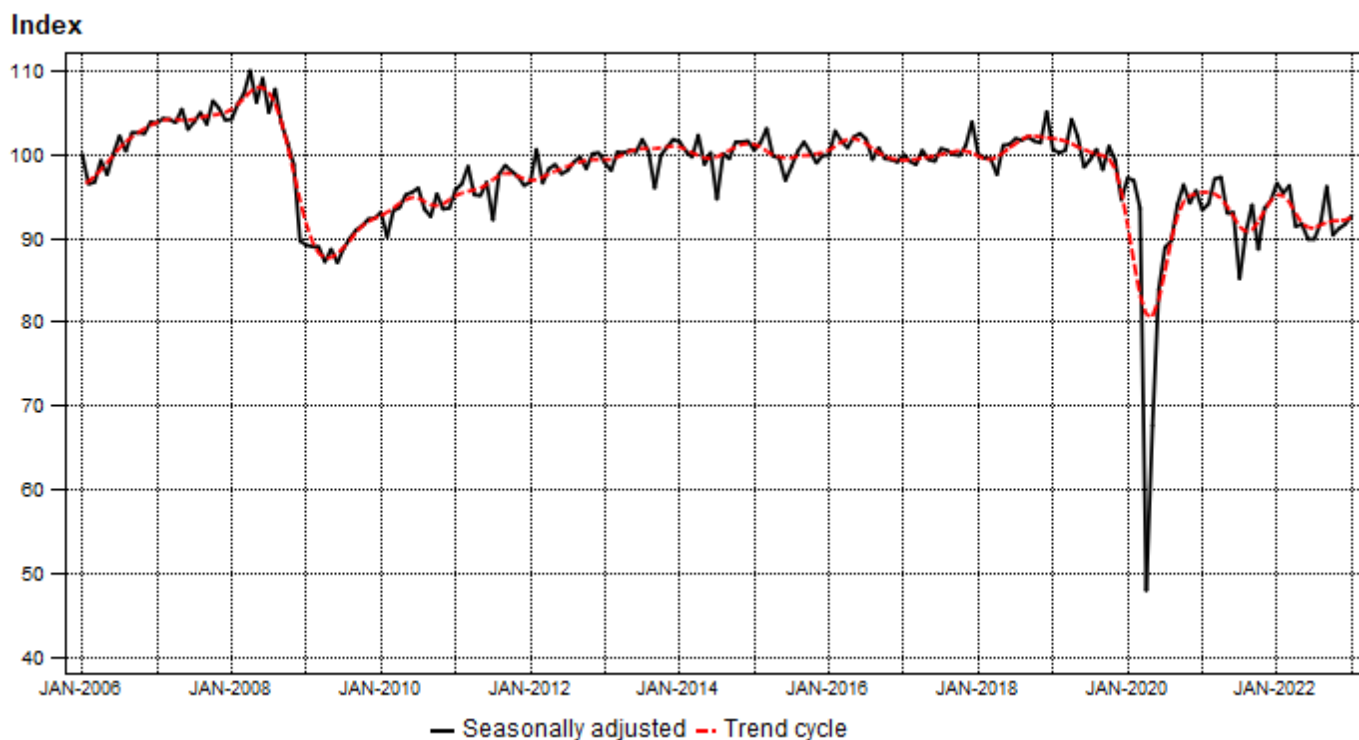
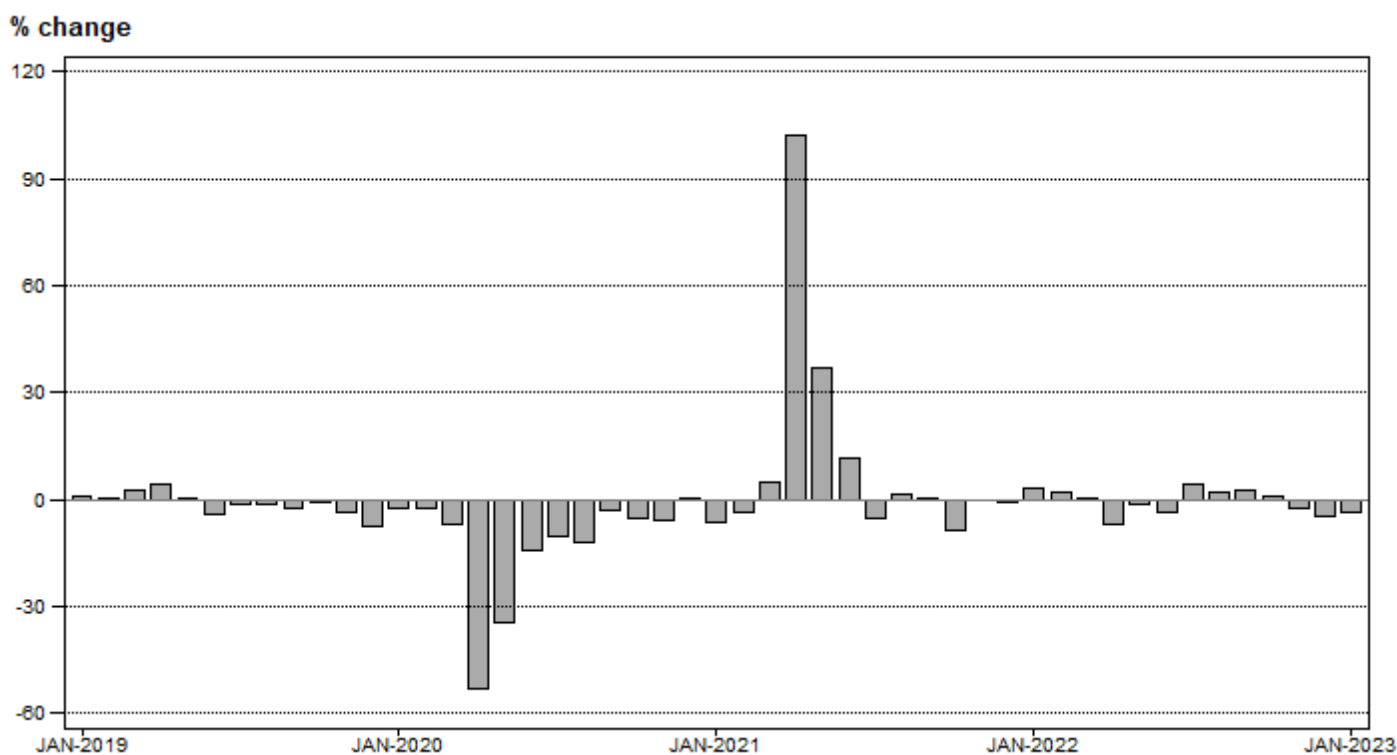
Seasonally adjusted manufacturing production decreased by 1,0% in the three months ended January 2023 compared with the previous three months. Five of the ten manufacturing divisions reported negative growth rates over this period.

The largest negative contributions were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (-7,7% and contributing -0,8 of a percentage point);
- wood and wood products, paper, publishing and printing (-4,0% and contributing -0,4 of a percentage point); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (-1,8% and contributing -0,4 of a percentage point) – see Table B.

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

Manufacturing division and major group	Weight	Aug – Oct 2022	Nov 2022 – Jan 2023	% change between Aug – Oct 2022 and Nov 2022 – Jan 2023	Contribution (% points) to the total % change
Food and beverages	20,75	101,8	100,7	-1,1	-0,2
Meat, fish, fruit, etc.	3,27	105,0	107,8	2,7	0,1
Dairy products	1,39	95,2	98,7	3,7	0,1
Grain mill products	1,68	99,6	94,9	-4,7	-0,1
Other food products	7,75	94,0	93,4	-0,6	-0,1
Beverages	6,66	111,3	107,5	-3,4	-0,3
Textiles, clothing, leather and footwear	4,26	92,4	93,5	1,2	0,1
Textiles	1,08	103,6	104,3	0,7	0,0
Other textile products	0,61	95,0	93,1	-2,0	0,0
Knitted, crocheted articles	0,06	91,1	90,0	-1,2	0,0
Wearing apparel	1,98	83,9	87,1	3,8	0,1
Leather and leather products	0,27	93,6	90,4	-3,4	0,0
Footwear	0,25	103,6	103,0	-0,6	0,0
Wood and wood products, paper, publishing and printing	10,63	95,7	91,9	-4,0	-0,4
Sawmilling and planing of wood	0,87	98,5	98,0	-0,5	0,0
Products of wood	0,88	102,4	108,7	6,2	0,1
Paper and paper products	5,34	98,0	94,2	-3,9	-0,2
Publishing	2,18	86,5	76,5	-11,6	-0,2
Printing, recorded media	1,35	95,1	92,9	-2,3	0,0
Petroleum, chemical products, rubber and plastic products	24,95	72,4	74,2	2,5	0,5
Coke, petroleum products and nuclear fuel	11,85	47,5	49,8	4,8	0,3
Basic chemicals	3,50	100,3	98,7	-1,6	-0,1
Other chemical products	6,64	90,4	93,2	3,1	0,2
Rubber products	0,76	93,7	95,2	1,6	0,0
Plastic products	2,20	101,1	102,2	1,1	0,0
Glass and non-metallic mineral products	3,24	105,0	107,6	2,5	0,1
Glass and glass products	0,49	105,6	105,7	0,1	0,0
Non-metallic mineral products	2,75	104,9	107,9	2,9	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	96,9	95,2	-1,8	-0,4
Basic iron and steel products	2,92	84,7	81,6	-3,7	-0,1
Non-ferrous metal products	3,32	91,4	90,2	-1,3	0,0
Structural metal products	1,99	101,2	101,1	-0,1	0,0
Other fabricated metal products	3,53	100,2	95,1	-5,1	-0,2
General purpose machinery	3,42	106,8	106,2	-0,6	0,0
Special purpose machinery	3,85	96,2	96,8	0,6	0,0
Household appliances	0,70	101,5	96,1	-5,3	0,0
Electrical machinery	2,21	92,7	98,4	6,1	0,1
Radio, television and communication apparatus and professional equipment	1,07	102,9	102,1	-0,8	0,0
Radio, television and communication apparatus	0,04	91,5	90,1	-1,5	0,0
Professional equipment	1,03	103,3	102,6	-0,7	0,0
Motor vehicles, parts and accessories and other transport equipment	8,89	113,0	104,3	-7,7	-0,8
Motor vehicles	2,78	103,2	99,3	-3,8	-0,1
Bodies for motor vehicles, trailers and semi-trailers	0,73	116,3	107,6	-7,5	-0,1
Parts and accessories	3,97	125,7	109,6	-12,8	-0,7
Other transport equipment	1,40	95,0	97,6	2,7	0,0
Furniture and other manufacturing	4,27	87,8	91,2	3,9	0,2
Furniture	0,78	83,2	96,1	15,5	0,1
Other manufacturing groups	3,49	88,8	90,1	1,5	0,0
Total	100	92,8	91,9	-1,0	-1,0

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 January 2023

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

	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
Year-on-year % change, unadjusted	17,0	18,2	15,4	11,2	9,2	9,3
Month-on-month % change, seasonally adjusted	1,5	3,9	-4,7	3,1	2,0	-0,5
3-month % change, seasonally adjusted ¹	0,8	3,1	2,3	2,7	0,9	2,3

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

Seasonally adjusted manufacturing sales decreased by 0,5% in January 2023 compared with December 2022. This followed month-on-month changes of 2,0% in December 2022 and 3,1% in November 2022 – see Table C.

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

Manufacturing division	Aug – Oct 2022 (R million)	Nov 2022 – Jan 2023 (R million)	% change between Aug – Oct 2022 and Nov 2022 – Jan 2023	Contribution (% points) to the total % change
Food and beverages	184 883	182 979	-1,0	-0,2
Textiles, clothing, leather and footwear	17 030	17 301	1,6	0,0
Wood and wood products, paper, publishing and printing	49 543	48 866	-1,4	-0,1
Petroleum, chemical products, rubber and plastic products	155 063	154 644	-0,3	-0,1
Glass and non-metallic mineral products	24 624	25 445	3,3	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	162 111	164 920	1,7	0,4
Electrical machinery	17 402	17 967	3,2	0,1
Radio, television and communication apparatus and professional equipment	7 675	7 483	-2,5	0,0
Motor vehicles, parts and accessories and other transport equipment	113 664	127 296	12,0	1,8
Furniture and other manufacturing	27 364	29 701	8,5	0,3
Total	759 357	776 602	2,3	2,3

Seasonally adjusted manufacturing sales increased by 2,3% in the three months ended January 2023 compared with the previous three months. The largest contributions were made by the follow divisions:

- motor vehicles, parts and accessories and other transport equipment (12,0% and contributing 1,8 percentage points); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (1,7% and contributing 0,4 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	2017	2018	2019	2020	2021	2022	2023 ¹
Jan	85,7	87,1	88,0	85,6	80,3	82,8	79,7
Feb	94,3	94,5	94,9	92,4	89,3	90,9	
Mar	101,5	98,9	101,2	94,4	98,9	99,1	
Apr	90,5	91,9	95,8	45,0	91,0	84,5	
May	100,1	101,8	102,0	67,0	91,9	90,9	
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	102,4	
Dec	93,2	93,7	86,8	87,3	86,7	82,8	
Total	100,1	101,1	100,0	87,5	92,9	92,6	

¹ 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	-3,7	-3,7
Feb	0,2	0,4	-2,6	-3,4	1,8		
Mar	-2,6	2,3	-6,7	4,8	0,2		
Apr	1,5	4,2	-53,0	102,2	-7,1		
May	1,7	0,2	-34,3	37,2	-1,1		
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	-2,2		
Dec	0,5	-7,4	0,6	-0,7	-4,5		
Total	1,0	-1,1	-12,5	6,2	-0,3		

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	96,6	92,7	2,7	-2,4	2,2	1,1
Feb	96,9	94,1	95,4		-0,3	0,7	-1,2	
Mar	93,6	97,1	96,3		-3,4	3,2	0,9	
Apr	48,0	97,3	91,4		-48,7	0,2	-5,1	
May	67,7	93,0	91,7		41,0	-4,4	0,3	
Jun	83,9	93,1	89,9		23,9	0,1	-2,0	
Jul	88,9	85,2	89,9		6,0	-8,5	0,0	
Aug	89,7	90,7	91,8		0,9	6,5	2,1	
Sep	94,0	94,0	96,2		4,8	3,6	4,8	
Oct	96,4	88,7	90,4		2,6	-5,6	-6,0	
Nov	94,2	93,6	91,2		-2,3	5,5	0,9	
Dec	95,7	94,5	91,7		1,6	1,0	0,5	

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

Manufacturing division and major group	Weight	Aug-22	Sep-22	Oct-22	¹ Nov-22	¹ Dec-22	¹ Jan-23
Food and beverages	20,75	101,7	118,0	104,9	107,8	105,5	93,6
Meat, fish, fruit, etc.	3,27	104,8	109,1	105,4	117,8	111,8	100,0
Dairy products	1,39	93,0	103,4	110,0	109,9	103,5	100,4
Grain mill products	1,68	104,5	99,6	104,7	106,5	90,2	88,7
Other food products	7,75	99,4	113,1	99,5	98,9	86,8	77,3
Beverages	6,66	104,0	135,8	109,8	113,0	128,4	109,4
Textiles, clothing, leather and footwear	4,26	94,8	100,4	107,2	112,0	77,4	66,0
Textiles	1,08	112,5	109,5	110,1	118,5	71,8	75,9
Other textile products	0,61	92,5	103,6	111,7	113,0	79,4	66,2
Knitted, crocheted articles	0,06	96,5	104,6	105,0	102,6	73,4	57,8
Wearing apparel	1,98	82,3	92,3	104,2	107,1	78,3	57,8
Leather and leather products	0,27	98,6	103,2	97,6	106,3	67,3	79,7
Footwear	0,25	118,6	112,6	118,8	129,4	101,7	75,0
Wood and wood products, paper, publishing and printing	10,63	102,9	110,8	101,5	103,4	89,7	82,3
Sawmilling and planing of wood	0,87	111,6	105,6	96,4	102,9	75,4	92,3
Products of wood	0,88	105,3	114,4	120,7	120,9	84,8	98,5
Paper and paper products	5,34	98,7	113,8	102,1	100,1	98,9	83,8
Publishing	2,18	106,7	106,4	92,5	89,2	74,8	73,7
Printing, recorded media	1,35	105,9	107,1	104,1	128,6	89,8	73,1
Petroleum, chemical products, rubber and plastic products	24,95	75,0	75,6	78,1	82,7	69,8	69,4
Coke, petroleum products and nuclear fuel	11,85	50,4	46,0	53,6	52,7	52,0	51,4
Basic chemicals	3,50	106,5	106,3	100,9	106,9	94,4	92,5
Other chemical products	6,64	89,6	97,1	95,9	107,7	85,5	80,7
Rubber products	0,76	91,8	103,9	104,0	103,3	49,7	92,3
Plastic products	2,20	107,5	112,0	110,9	123,4	85,8	87,7
Glass and non-metallic mineral products	3,24	109,9	114,3	119,8	117,8	91,2	86,6
Glass and glass products	0,49	114,1	113,1	113,2	119,3	101,8	100,7
Non-metallic mineral products	2,75	109,1	114,5	121,0	117,5	89,3	84,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	103,7	100,7	101,9	106,3	77,9	80,0
Basic iron and steel products	2,92	82,6	84,9	88,1	82,9	69,7	81,8
Non-ferrous metal products	3,32	97,6	89,2	94,9	95,0	84,2	83,9
Structural metal products	1,99	109,1	117,3	106,5	116,1	80,5	71,6
Other fabricated metal products	3,53	112,0	109,4	104,2	114,2	67,1	76,3
General purpose machinery	3,42	116,1	117,8	113,8	121,8	82,9	85,6
Special purpose machinery	3,85	103,5	90,1	103,5	106,7	81,9	76,9
Household appliances	0,70	104,6	104,8	101,2	110,5	83,1	87,4
Electrical machinery	2,21	95,7	100,3	102,4	106,8	77,5	79,3
Radio, television and communication apparatus and professional equipment	1,07	107,3	106,6	106,5	119,9	107,5	74,2
Radio, television and communication apparatus	0,04	93,8	100,3	115,1	114,3	111,0	63,9
Professional equipment	1,03	107,9	106,9	106,1	120,1	107,4	74,6
Motor vehicles, parts and accessories and other transport equipment	8,89	115,1	135,3	114,8	121,7	65,2	80,1
Motor vehicles	2,78	116,5	136,2	96,5	111,3	52,6	77,0
Bodies for motor vehicles, trailers and semi-trailers	0,73	120,6	127,2	130,9	134,7	67,9	72,2
Parts and accessories	3,97	123,5	145,1	127,8	130,1	63,0	84,3
Other transport equipment	1,40	85,8	110,2	106,0	111,8	95,0	78,8
Furniture and other manufacturing	4,27	90,4	97,7	93,5	103,0	85,2	74,5
Furniture	0,78	87,6	93,8	96,8	115,1	95,2	73,1
Other manufacturing groups	3,49	91,0	98,5	92,8	100,3	83,0	74,8
Total	100	96,2	102,5	98,2	102,4	82,8	79,7

¹ 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	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
Food and beverages	-3,9	7,8	-3,9	-5,0	-4,6	4,6
Meat, fish, fruit, etc.	9,2	6,3	0,7	4,8	-3,4	8,5
Dairy products	3,3	7,8	0,7	3,5	7,0	17,8
Grain mill products	2,6	-3,9	0,4	-8,3	-13,4	-10,9
Other food products	-10,9	2,1	0,3	1,4	1,0	-2,9
Beverages	-4,0	17,3	-11,7	-15,3	-9,3	11,5
Textiles, clothing, leather and footwear	3,0	-1,1	-6,9	-6,8	-4,6	-4,8
Textiles	2,3	-18,3	-19,9	-12,5	-5,5	-13,0
Other textile products	4,2	12,5	0,4	-0,3	4,6	6,8
Knitted, crocheted articles	3,7	23,6	8,6	12,3	18,8	2,5
Wearing apparel	-1,2	3,2	-3,1	-10,5	-8,3	-6,6
Leather and leather products	39,3	17,8	1,6	31,1	3,2	9,6
Footwear	3,6	13,2	4,5	2,9	-3,0	9,5
Wood and wood products, paper, publishing and printing	2,9	-2,7	-2,9	-8,8	-1,8	-4,0
Sawmilling and planing of wood	21,7	21,5	9,9	2,5	2,9	15,2
Products of wood	-3,2	2,9	1,4	3,1	-6,0	7,4
Paper and paper products	-4,2	3,6	0,7	-11,3	-1,1	-8,0
Publishing	14,5	-25,1	-14,4	-10,5	-8,8	-6,6
Printing, recorded media	7,1	3,4	-7,4	-10,2	6,4	-2,3
Petroleum, chemical products, rubber and plastic products	-0,4	-10,4	-9,7	-2,5	-12,0	-10,8
Coke, petroleum products and nuclear fuel	-18,8	-21,4	-22,3	-19,7	-27,5	-25,4
Basic chemicals	22,6	-7,7	0,9	7,0	4,0	-3,3
Other chemical products	8,6	-9,8	-6,2	6,7	-3,8	0,6
Rubber products	-3,4	15,2	0,5	9,2	4,6	-10,0
Plastic products	7,9	8,9	4,8	10,2	1,7	8,0
Glass and non-metallic mineral products	1,3	5,3	6,3	2,7	5,9	8,3
Glass and glass products	18,1	16,6	8,6	7,5	2,9	11,5
Non-metallic mineral products	-1,4	3,5	5,9	1,8	6,6	7,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	4,7	-2,0	14,4	0,1	-6,0	-3,7
Basic iron and steel products	-9,1	-13,0	-6,4	-16,1	-15,9	-13,2
Non-ferrous metal products	7,1	-1,0	31,3	4,5	-6,3	0,0
Structural metal products	11,2	3,9	16,4	6,8	16,5	9,0
Other fabricated metal products	9,4	-0,1	17,3	-6,5	-5,4	-14,1
General purpose machinery	5,9	4,8	24,0	16,0	-12,8	8,5
Special purpose machinery	2,6	-8,9	8,3	-3,4	-2,4	-4,0
Household appliances	10,6	7,7	8,6	5,6	-1,1	-5,0
Electrical machinery	-6,5	-1,0	0,3	-7,6	-10,8	-9,4
Radio, television and communication apparatus and professional equipment	20,4	15,1	-1,7	7,5	20,1	-11,4
Radio, television and communication apparatus	6,5	0,2	-5,1	-6,2	-11,5	1,9
Professional equipment	21,1	15,8	-1,6	8,1	22,0	-11,8
Motor vehicles, parts and accessories and other transport equipment	20,1	40,9	21,4	9,6	13,4	-7,6
Motor vehicles	60,2	61,6	11,8	5,5	10,5	-6,4
Bodies for motor vehicles, trailers and semi-trailers	10,7	2,9	20,6	10,0	-0,4	-10,1
Parts and accessories	11,2	50,1	32,2	16,5	24,0	-10,4
Other transport equipment	-6,1	7,5	8,1	-2,0	4,6	1,4
Furniture and other manufacturing	-7,9	3,6	0,6	-3,8	-2,2	-0,9
Furniture	-14,0	-18,5	-10,2	-6,1	-4,7	-0,9
Other manufacturing groups	-6,6	9,8	3,7	-3,2	-1,4	-0,9
Total	2,0	2,7	0,9	-2,2	-4,5	-3,7

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	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
Food and beverages	20,75	-0,9	1,8	-0,9	-1,1	-1,2	1,0
Meat, fish, fruit, etc.	3,27	0,3	0,2	0,0	0,2	-0,1	0,3
Dairy products	1,39	0,0	0,1	0,0	0,0	0,1	0,3
Grain mill products	1,68	0,0	-0,1	0,0	-0,2	-0,3	-0,2
Other food products	7,75	-1,0	0,2	0,0	0,1	0,1	-0,2
Beverages	6,66	-0,3	1,3	-1,0	-1,3	-1,0	0,9
Textiles, clothing, leather and footwear	4,26	0,1	0,0	-0,3	-0,3	-0,2	-0,2
Textiles	1,08	0,0	-0,3	-0,3	-0,2	-0,1	-0,1
Other textile products	0,61	0,0	0,1	0,0	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	0,0	0,1	-0,1	-0,2	-0,2	-0,1
Leather and leather products	0,27	0,1	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	0,3	-0,3	-0,3	-1,0	-0,2	-0,4
Sawmilling and planing of wood	0,87	0,2	0,2	0,1	0,0	0,0	0,1
Products of wood	0,88	0,0	0,0	0,0	0,0	-0,1	0,1
Paper and paper products	5,34	-0,2	0,2	0,0	-0,7	-0,1	-0,5
Publishing	2,18	0,3	-0,8	-0,3	-0,2	-0,2	-0,1
Printing, recorded media	1,35	0,1	0,0	-0,1	-0,2	0,1	0,0
Petroleum, chemical products, rubber and plastic products	24,95	-0,1	-2,2	-2,2	-0,5	-2,7	-2,5
Coke, petroleum products and nuclear fuel	11,85	-1,5	-1,5	-1,9	-1,5	-2,7	-2,5
Basic chemicals	3,50	0,7	-0,3	0,0	0,2	0,1	-0,1
Other chemical products	6,64	0,5	-0,7	-0,4	0,4	-0,3	0,0
Rubber products	0,76	0,0	0,1	0,0	0,1	0,0	-0,1
Plastic products	2,20	0,2	0,2	0,1	0,2	0,0	0,2
Glass and non-metallic mineral products	3,24	0,0	0,2	0,2	0,1	0,2	0,3
Glass and glass products	0,49	0,1	0,1	0,0	0,0	0,0	0,1
Non-metallic mineral products	2,75	0,0	0,1	0,2	0,1	0,2	0,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	1,0	-0,4	2,6	0,0	-1,1	-0,7
Basic iron and steel products	2,92	-0,3	-0,4	-0,2	-0,4	-0,4	-0,4
Non-ferrous metal products	3,32	0,2	0,0	0,8	0,1	-0,2	0,0
Structural metal products	1,99	0,2	0,1	0,3	0,1	0,3	0,1
Other fabricated metal products	3,53	0,4	0,0	0,6	-0,3	-0,2	-0,5
General purpose machinery	3,42	0,2	0,2	0,8	0,5	-0,5	0,3
Special purpose machinery	3,85	0,1	-0,3	0,3	-0,1	-0,1	-0,1
Household appliances	0,70	0,1	0,1	0,1	0,0	0,0	0,0
Electrical machinery	2,21	-0,2	0,0	0,0	-0,2	-0,2	-0,2
Radio, television and communication apparatus and professional equipment	1,07	0,2	0,2	0,0	0,1	0,2	-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	0,2	0,2	0,0	0,1	0,2	-0,1
Motor vehicles, parts and accessories and other transport equipment	8,89	1,8	3,5	1,8	0,9	0,8	-0,7
Motor vehicles	2,78	1,3	1,4	0,3	0,2	0,2	-0,2
Bodies for motor vehicles, trailers and semi-trailers	0,73	0,1	0,0	0,2	0,1	0,0	-0,1
Parts and accessories	3,97	0,5	1,9	1,3	0,7	0,6	-0,5
Other transport equipment	1,40	-0,1	0,1	0,1	0,0	0,1	0,0
Furniture and other manufacturing	4,27	-0,4	0,1	0,0	-0,2	-0,1	0,0
Furniture	0,78	-0,1	-0,2	-0,1	-0,1	0,0	0,0
Other manufacturing groups	3,49	-0,2	0,3	0,1	-0,1	0,0	0,0
Total	100	2,0	2,7	0,9	-2,2	-4,5	-3,7

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	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Month-on-month % change
Food and beverages	20,75	110,3	97,9	96,2	99,8	106,1	6,3
Meat, fish, fruit, etc.	3,27	106,9	103,8	107,7	104,6	111,1	6,2
Dairy products	1,39	96,1	97,3	97,1	96,4	102,7	6,5
Grain mill products	1,68	97,9	100,9	96,6	91,6	96,5	5,3
Other food products	7,75	101,4	92,2	90,4	96,1	93,8	-2,4
Beverages	6,66	128,5	101,2	97,0	104,5	121,1	15,9
Textiles, clothing, leather and footwear	4,26	94,3	90,4	94,4	93,6	92,6	-1,1
Textiles	1,08	102,7	97,6	104,9	108,1	100,0	-7,5
Other textile products	0,61	96,0	95,9	93,5	97,3	88,4	-9,1
Knitted, crocheted articles	0,06	92,7	91,8	91,7	96,1	82,3	-14,4
Wearing apparel	1,98	87,5	84,1	86,9	85,3	89,2	4,6
Leather and leather products	0,27	97,2	83,8	102,9	78,5	89,7	14,3
Footwear	0,25	105,6	101,9	101,5	102,8	104,6	1,8
Wood and wood products, paper, publishing and printing	10,63	96,6	93,1	89,4	94,1	92,3	-1,9
Sawmilling and planing of wood	0,87	98,8	92,8	95,9	96,6	101,4	5,0
Products of wood	0,88	104,9	102,6	105,9	106,4	113,8	7,0
Paper and paper products	5,34	99,1	98,7	91,0	98,4	93,1	-5,4
Publishing	2,18	85,6	79,0	74,4	76,6	78,6	2,6
Printing, recorded media	1,35	97,9	87,2	91,9	95,6	91,1	-4,7
Petroleum, chemical products, rubber and plastic products	24,95	72,9	72,5	74,6	73,6	74,4	1,1
Coke, petroleum products and nuclear fuel	11,85	46,6	48,2	49,9	49,5	50,0	1,0
Basic chemicals	3,50	101,0	97,8	97,7	101,2	97,3	-3,9
Other chemical products	6,64	92,4	91,9	95,3	91,3	93,0	1,9
Rubber products	0,76	98,0	93,7	94,4	90,2	101,1	12,1
Plastic products	2,20	102,9	97,4	101,3	100,8	104,4	3,6
Glass and non-metallic mineral products	3,24	106,5	104,8	104,8	110,2	107,7	-2,3
Glass and glass products	0,49	107,9	102,2	103,5	105,3	108,2	2,8
Non-metallic mineral products	2,75	106,3	105,3	105,1	111,0	107,5	-3,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	95,9	94,4	97,3	92,3	96,0	4,0
Basic iron and steel products	2,92	85,0	82,7	82,7	80,6	81,6	1,2
Non-ferrous metal products	3,32	89,2	90,6	91,9	88,7	90,1	1,6
Structural metal products	1,99	105,2	96,8	99,2	105,1	98,9	-5,9
Other fabricated metal products	3,53	101,5	91,1	97,9	95,1	92,2	-3,0
General purpose machinery	3,42	107,4	105,4	109,0	93,3	116,4	24,8
Special purpose machinery	3,85	88,7	98,1	100,7	93,1	96,6	3,8
Household appliances	0,70	102,7	98,6	99,0	98,7	90,7	-8,1
Electrical machinery	2,21	91,0	95,3	95,4	102,6	97,1	-5,4
Radio, television and communication apparatus and professional equipment	1,07	103,0	98,4	103,9	105,2	97,3	-7,5
Radio, television and communication apparatus	0,04	90,4	90,9	88,3	92,9	89,0	-4,2
Professional equipment	1,03	103,5	98,7	104,6	105,7	97,6	-7,7
Motor vehicles, parts and accessories and other transport equipment	8,89	128,7	105,5	107,6	106,2	99,1	-6,7
Motor vehicles	2,78	124,7	87,1	96,8	103,2	98,0	-5,0
Bodies for motor vehicles, trailers and semi-trailers	0,73	116,9	117,4	113,0	107,5	102,2	-4,9
Parts and accessories	3,97	144,4	118,5	116,9	111,3	100,5	-9,7
Other transport equipment	1,40	98,1	99,1	100,2	97,0	95,7	-1,3
Furniture and other manufacturing	4,27	91,7	85,3	87,6	94,4	91,7	-2,9
Furniture	0,78	84,6	83,6	89,0	103,6	95,7	-7,6
Other manufacturing groups	3,49	93,3	85,6	87,2	92,4	90,8	-1,7
Total	100	96,2	90,4	91,2	91,7	92,7	1,1

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

Month	2017	2018	2019	2020	2021	2022	2023 ¹
Jan	160 525	167 548	183 379	182 810	179 439	203 502	222 391
Feb	175 284	186 833	197 889	202 751	206 844	229 922	
Mar	196 317	198 873	216 145	202 704	238 957	260 280	
Apr	170 582	178 303	205 339	98 153	216 628	224 281	
May	193 831	207 711	215 489	145 978	222 587	250 160	
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	287 067	
Dec	187 323	196 436	190 046	196 767	217 403	237 439	
Total	2 316 098	2 474 506	2 567 907	2 284 544	2 649 414	2 987 679	

¹ 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	9,3	9,3
Feb	6,6	5,9	2,5	2,0	11,2		
Mar	1,3	8,7	-6,2	17,9	8,9		
Apr	4,5	15,2	-52,2	120,7	3,5		
May	7,2	3,7	-32,3	52,5	12,4		
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	9,2		
Total	6,8	3,8	-11,0	16,0	12,8		

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	211 260	211 376	240 696	259 740	2,9	-0,7	3,4	-0,5
Feb	214 382	218 313	243 223		1,5	3,3	1,0	
Mar	198 279	230 724	249 910		-7,5	5,7	2,7	
Apr	104 809	229 610	240 202		-47,1	-0,5	-3,9	
May	146 112	224 415	248 473		39,4	-2,3	3,4	
Jun	174 725	223 698	246 754		19,6	-0,3	-0,7	
Jul	188 231	197 341	246 920		7,7	-11,8	0,1	
Aug	196 928	216 378	250 733		4,6	9,6	1,5	
Sep	204 834	222 380	260 398		4,0	2,8	3,9	
Oct	212 288	212 450	248 226		3,6	-4,5	-4,7	
Nov	213 956	229 442	255 920		0,8	8,0	3,1	
Dec	212 776	232 754	260 942		-0,6	1,4	2,0	

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

Manufacturing division and major group	Aug-22	Sep-22	Oct-22	¹ Nov-22	¹ Dec-22	¹ Jan-23
Food and beverages	61 720	66 245	64 542	69 591	65 811	55 683
Meat, fish, fruit, etc.	18 398	19 237	18 984	21 632	19 884	16 802
Dairy products	5 188	5 580	6 289	6 197	5 829	5 511
Grain mill products	10 731	10 894	11 487	11 895	10 177	10 474
Other food products	12 616	11 792	12 457	13 614	10 858	9 692
Beverages	14 786	18 742	15 326	16 254	19 064	13 203
Textiles, clothing, leather and footwear	5 806	6 215	6 705	7 126	5 140	4 006
Textiles	800	841	861	903	565	611
Other textile products	1 583	1 775	1 951	1 975	1 536	1 178
Knitted, crocheted articles	238	272	249	253	181	147
Wearing apparel	1 726	1 828	2 132	2 349	1 614	1 084
Leather and leather products	520	606	579	624	421	370
Footwear	940	893	933	1 023	823	617
Wood and wood products, paper, publishing and printing	16 865	19 456	17 530	18 715	16 440	13 510
Sawmilling and planing of wood	1 305	1 231	1 199	1 273	1 041	1 170
Products of wood	2 260	2 368	2 427	2 530	1 634	2 051
Paper and paper products	8 382	10 688	8 854	9 170	9 661	6 500
Publishing	1 702	1 917	1 658	1 654	1 349	1 394
Printing, recorded media	3 215	3 253	3 392	4 088	2 755	2 395
Petroleum, chemical products, rubber and plastic products	52 005	54 857	55 657	59 151	49 105	44 996
Coke, petroleum products and nuclear fuel	14 571	15 437	17 548	16 030	15 665	13 933
Basic chemicals	12 052	12 567	11 758	13 531	10 739	10 277
Other chemical products	14 313	15 383	14 697	17 185	14 069	12 385
Rubber products	1 825	1 935	1 876	2 072	1 676	1 626
Plastic products	9 244	9 536	9 777	10 333	6 957	6 775
Glass and non-metallic mineral products	8 664	9 041	9 367	9 454	7 045	6 500
Glass and glass products	1 558	1 564	1 558	1 724	1 432	1 196
Non-metallic mineral products	7 106	7 477	7 810	7 730	5 613	5 305
Basic iron and steel, non-ferrous metal products, metal products and machinery	57 160	57 629	53 380	60 193	46 358	46 365
Basic iron and steel products	13 478	13 103	11 011	12 349	10 626	12 041
Non-ferrous metal products	16 310	16 698	15 456	18 612	15 426	15 443
Structural metal products	4 630	5 009	4 582	5 082	3 618	3 170
Other fabricated metal products	9 035	9 242	8 562	9 496	5 770	6 301
General purpose machinery	5 650	5 898	5 758	6 142	4 240	4 377
Special purpose machinery	6 876	6 452	6 841	7 227	5 643	4 027
Household appliances	1 181	1 226	1 172	1 285	1 034	1 007
Electrical machinery	5 881	6 352	6 259	6 641	5 193	4 647
Radio, television and communication apparatus and professional equipment	2 634	2 814	2 623	2 885	2 912	1 843
Radio, television and communication apparatus	1 089	1 223	1 109	1 172	1 325	792
Professional equipment	1 545	1 592	1 514	1 713	1 587	1 051
Motor vehicles, parts and accessories and other transport equipment	37 574	41 751	40 256	42 901	29 708	36 768
Motor vehicles	23 037	24 717	24 431	25 240	17 820	22 855
Bodies for motor vehicles, trailers and semi-trailers	1 623	1 695	1 770	1 817	1 091	849
Parts and accessories	10 196	11 817	10 657	12 242	7 736	10 539
Other transport equipment	2 719	3 521	3 399	3 603	3 061	2 525
Furniture and other manufacturing	9 036	9 702	9 482	10 411	9 727	8 071
Furniture	1 442	1 562	1 494	1 638	1 318	1 284
Other manufacturing groups	7 594	8 140	7 988	8 773	8 409	6 787
Total	257 345	274 061	265 803	287 067	237 439	222 391

¹ Preliminary.

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

Manufacturing division and major group	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
Food and beverages	10,3	15,5	8,5	10,2	4,4	11,5
Meat, fish, fruit, etc.	24,9	21,0	17,0	26,2	8,0	16,6
Dairy products	17,9	22,1	24,1	24,4	20,5	33,0
Grain mill products	20,4	20,6	18,7	12,6	9,7	21,6
Other food products	-3,5	1,9	9,8	21,3	14,9	5,8
Beverages	-0,4	15,1	-10,7	-15,5	-9,4	-3,0
Textiles, clothing, leather and footwear	12,6	13,8	6,5	5,8	6,4	3,8
Textiles	10,0	6,1	-7,3	3,6	1,3	-2,1
Other textile products	14,2	18,0	9,1	5,7	23,9	15,8
Knitted, crocheted articles	9,2	39,5	16,9	16,6	27,5	10,5
Wearing apparel	6,2	2,6	3,1	-2,8	-8,5	-11,9
Leather and leather products	32,3	24,7	16,5	38,4	14,7	0,0
Footwear	16,8	27,8	16,8	12,4	7,9	27,5
Wood and wood products, paper, publishing and printing	15,5	16,4	12,2	5,9	16,2	-1,1
Sawmilling and planing of wood	32,9	32,4	27,6	17,9	22,8	37,2
Products of wood	8,0	10,8	9,3	10,3	8,0	12,8
Paper and paper products	12,9	24,5	12,7	0,9	18,4	-13,0
Publishing	22,4	-14,9	0,5	6,4	7,0	0,1
Printing, recorded media	18,3	15,4	14,5	11,9	16,7	12,9
Petroleum, chemical products, rubber and plastic products	24,0	15,7	14,0	17,2	5,5	3,9
Coke, petroleum products and nuclear fuel	8,6	17,5	18,7	1,3	-3,3	-2,2
Basic chemicals	44,3	15,3	5,9	24,1	4,2	9,2
Other chemical products	27,5	9,7	12,0	30,0	16,7	6,9
Rubber products	19,2	21,5	6,2	20,3	20,3	20,4
Plastic products	24,5	22,9	21,3	17,3	6,0	1,1
Glass and non-metallic mineral products	13,0	14,3	13,8	12,1	16,9	12,2
Glass and glass products	33,3	33,9	22,1	26,6	15,2	13,3
Non-metallic mineral products	9,4	10,9	12,3	9,3	17,4	12,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	5,1	1,4	10,5	-4,8	0,2	-7,0
Basic iron and steel products	2,2	-19,8	4,3	-35,0	-6,7	-18,3
Non-ferrous metal products	-12,1	4,7	-10,1	1,8	-1,7	-4,6
Structural metal products	24,3	15,5	26,1	17,6	31,0	15,5
Other fabricated metal products	18,0	13,9	30,2	2,3	7,7	-7,2
General purpose machinery	26,6	16,2	39,1	31,4	-1,2	22,2
Special purpose machinery	18,5	7,1	31,1	10,3	-2,6	-16,5
Household appliances	18,9	21,3	16,2	11,3	6,5	3,3
Electrical machinery	9,0	12,6	17,6	3,3	5,5	-0,6
Radio, television and communication apparatus and professional equipment	20,4	17,1	-2,4	-3,7	9,4	-3,8
Radio, television and communication apparatus	9,4	8,3	-13,0	-22,6	-7,1	3,8
Professional equipment	29,5	25,0	7,1	15,7	28,5	-8,8
Motor vehicles, parts and accessories and other transport equipment	56,3	79,4	53,9	48,1	53,5	54,9
Motor vehicles	89,6	114,8	60,3	62,1	62,6	70,4
Bodies for motor vehicles, trailers and semi-trailers	27,7	29,4	40,5	32,8	27,0	-5,4
Parts and accessories	25,5	54,5	53,4	38,5	55,7	46,1
Other transport equipment	9,5	25,3	25,5	12,8	18,9	14,4
Furniture and other manufacturing	4,5	9,1	1,3	4,6	0,7	18,7
Furniture	-4,3	-8,8	-14,3	-18,0	-20,3	7,6
Other manufacturing groups	6,3	13,4	4,8	10,3	5,0	21,0
Total	17,0	18,2	15,4	11,2	9,2	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	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
Food and beverages	2,6	3,8	2,2	2,5	1,3	2,8
Meat, fish, fruit, etc.	1,7	1,4	1,2	1,7	0,7	1,2
Dairy products	0,4	0,4	0,5	0,5	0,5	0,7
Grain mill products	0,8	0,8	0,8	0,5	0,4	0,9
Other food products	-0,2	0,1	0,5	0,9	0,6	0,3
Beverages	0,0	1,1	-0,8	-1,2	-0,9	-0,2
Textiles, clothing, leather and footwear	0,3	0,3	0,2	0,2	0,1	0,1
Textiles	0,0	0,0	0,0	0,0	0,0	0,0
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	0,0	0,0	0,0	0,0	-0,1	-0,1
Leather and leather products	0,1	0,1	0,0	0,1	0,0	0,0
Footwear	0,1	0,1	0,1	0,0	0,0	0,1
Wood and wood products, paper, publishing and printing	1,0	1,2	0,8	0,4	1,1	-0,1
Sawmilling and planing of wood	0,1	0,1	0,1	0,1	0,1	0,2
Products of wood	0,1	0,1	0,1	0,1	0,1	0,1
Paper and paper products	0,4	0,9	0,4	0,0	0,7	-0,5
Publishing	0,1	-0,1	0,0	0,0	0,0	0,0
Printing, recorded media	0,2	0,2	0,2	0,2	0,2	0,1
Petroleum, chemical products, rubber and plastic products	4,6	3,2	3,0	3,4	1,2	0,8
Coke, petroleum products and nuclear fuel	0,5	1,0	1,2	0,1	-0,2	-0,2
Basic chemicals	1,7	0,7	0,3	1,0	0,2	0,4
Other chemical products	1,4	0,6	0,7	1,5	0,9	0,4
Rubber products	0,1	0,1	0,0	0,1	0,1	0,1
Plastic products	0,8	0,8	0,7	0,6	0,2	0,0
Glass and non-metallic mineral products	0,5	0,5	0,5	0,4	0,5	0,3
Glass and glass products	0,2	0,2	0,1	0,1	0,1	0,1
Non-metallic mineral products	0,3	0,3	0,4	0,3	0,4	0,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	1,3	0,3	2,2	-1,2	0,0	-1,7
Basic iron and steel products	0,1	-1,4	0,2	-2,6	-0,4	-1,3
Non-ferrous metal products	-1,0	0,3	-0,8	0,1	-0,1	-0,4
Structural metal products	0,4	0,3	0,4	0,3	0,4	0,2
Other fabricated metal products	0,6	0,5	0,9	0,1	0,2	-0,2
General purpose machinery	0,5	0,4	0,7	0,6	0,0	0,4
Special purpose machinery	0,5	0,2	0,7	0,3	-0,1	-0,4
Household appliances	0,1	0,1	0,1	0,1	0,0	0,0
Electrical machinery	0,2	0,3	0,4	0,1	0,1	0,0
Radio, television and communication apparatus and professional equipment	0,2	0,2	0,0	0,0	0,1	0,0
Radio, television and communication apparatus	0,0	0,0	-0,1	-0,1	0,0	0,0
Professional equipment	0,2	0,1	0,0	0,1	0,2	0,0
Motor vehicles, parts and accessories and other transport equipment	6,2	8,0	6,1	5,4	4,8	6,4
Motor vehicles	4,9	5,7	4,0	3,7	3,2	4,6
Bodies for motor vehicles, trailers and semi-trailers	0,2	0,2	0,2	0,2	0,1	0,0
Parts and accessories	0,9	1,8	1,6	1,3	1,3	1,6
Other transport equipment	0,1	0,3	0,3	0,2	0,2	0,2
Furniture and other manufacturing	0,2	0,3	0,1	0,2	0,0	0,6
Furniture	0,0	-0,1	-0,1	-0,1	-0,2	0,0
Other manufacturing groups	0,2	0,4	0,2	0,3	0,2	0,6
Total	17,0	18,2	15,4	11,2	9,2	9,3

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

Manufacturing division and major group	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Month-on-month % change
Food and beverages	63 805	60 184	61 455	59 359	62 165	4,7
Meat, fish, fruit, etc.	18 653	18 343	19 526	18 114	19 393	7,1
Dairy products	5 332	5 769	5 553	5 365	5 714	6,5
Grain mill products	10 779	10 827	10 782	10 367	11 332	9,3
Other food products	11 694	11 213	12 063	11 360	10 915	-3,9
Beverages	17 346	14 031	13 531	14 153	14 812	4,7
Textiles, clothing, leather and footwear	5 715	5 770	5 773	5 924	5 604	-5,4
Textiles	760	760	765	791	771	-2,5
Other textile products	1 647	1 689	1 657	1 892	1 639	-13,4
Knitted, crocheted articles	244	221	224	238	210	-11,8
Wearing apparel	1 708	1 784	1 775	1 723	1 707	-0,9
Leather and leather products	539	517	571	487	436	-10,5
Footwear	817	799	781	792	841	6,2
Wood and wood products, paper, publishing and printing	17 042	16 379	16 018	17 320	15 528	-10,3
Sawmilling and planing of wood	1 158	1 175	1 195	1 257	1 308	4,1
Products of wood	2 131	2 144	2 186	2 144	2 354	9,8
Paper and paper products	9 289	8 771	8 367	9 580	7 328	-23,5
Publishing	1 481	1 409	1 357	1 391	1 585	13,9
Printing, recorded media	2 984	2 880	2 914	2 948	2 952	0,1
Petroleum, chemical products, rubber and plastic products	52 342	51 904	52 253	51 904	50 487	-2,7
Coke, petroleum products and nuclear fuel	15 945	16 909	15 255	15 241	14 224	-6,7
Basic chemicals	11 568	10 818	11 521	11 673	11 513	-1,4
Other chemical products	14 279	14 037	15 021	14 560	14 475	-0,6
Rubber products	1 836	1 687	1 876	2 181	1 949	-10,6
Plastic products	8 714	8 453	8 579	8 248	8 327	1,0
Glass and non-metallic mineral products	8 264	8 283	8 227	8 816	8 402	-4,7
Glass and glass products	1 453	1 300	1 412	1 450	1 380	-4,8
Non-metallic mineral products	6 811	6 984	6 815	7 365	7 022	-4,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	55 470	50 571	54 963	55 344	54 613	-1,3
Basic iron and steel products	12 754	10 723	11 663	13 455	12 852	-4,5
Non-ferrous metal products	17 028	14 840	17 399	17 248	17 256	0,0
Structural metal products	4 493	4 210	4 346	4 667	4 405	-5,6
Other fabricated metal products	8 366	7 835	8 119	7 929	8 041	1,4
General purpose machinery	5 399	5 394	5 616	4 899	5 689	16,1
Special purpose machinery	6 212	6 437	6 666	5 962	5 240	-12,1
Household appliances	1 218	1 131	1 154	1 185	1 129	-4,7
Electrical machinery	5 857	5 853	5 742	6 237	5 988	-4,0
Radio, television and communication apparatus and professional equipment	2 634	2 412	2 453	2 551	2 479	-2,8
Radio, television and communication apparatus	1 114	972	940	1 025	1 090	6,3
Professional equipment	1 519	1 440	1 513	1 526	1 389	-9,0
Motor vehicles, parts and accessories and other transport equipment	39 782	38 000	39 781	43 658	43 857	0,5
Motor vehicles	23 056	22 623	24 238	26 900	27 828	3,4
Bodies for motor vehicles, trailers and semi-trailers	1 579	1 584	1 529	1 530	1 242	-18,8
Parts and accessories	12 035	10 627	10 792	12 097	11 694	-3,3
Other transport equipment	3 112	3 166	3 221	3 131	3 093	-1,2
Furniture and other manufacturing	9 487	8 872	9 255	9 828	10 618	8,0
Furniture	1 385	1 206	1 258	1 442	1 925	33,5
Other manufacturing groups	8 102	7 666	7 996	8 386	8 693	3,7
Total	260 398	248 226	255 920	260 942	259 740	-0,5

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

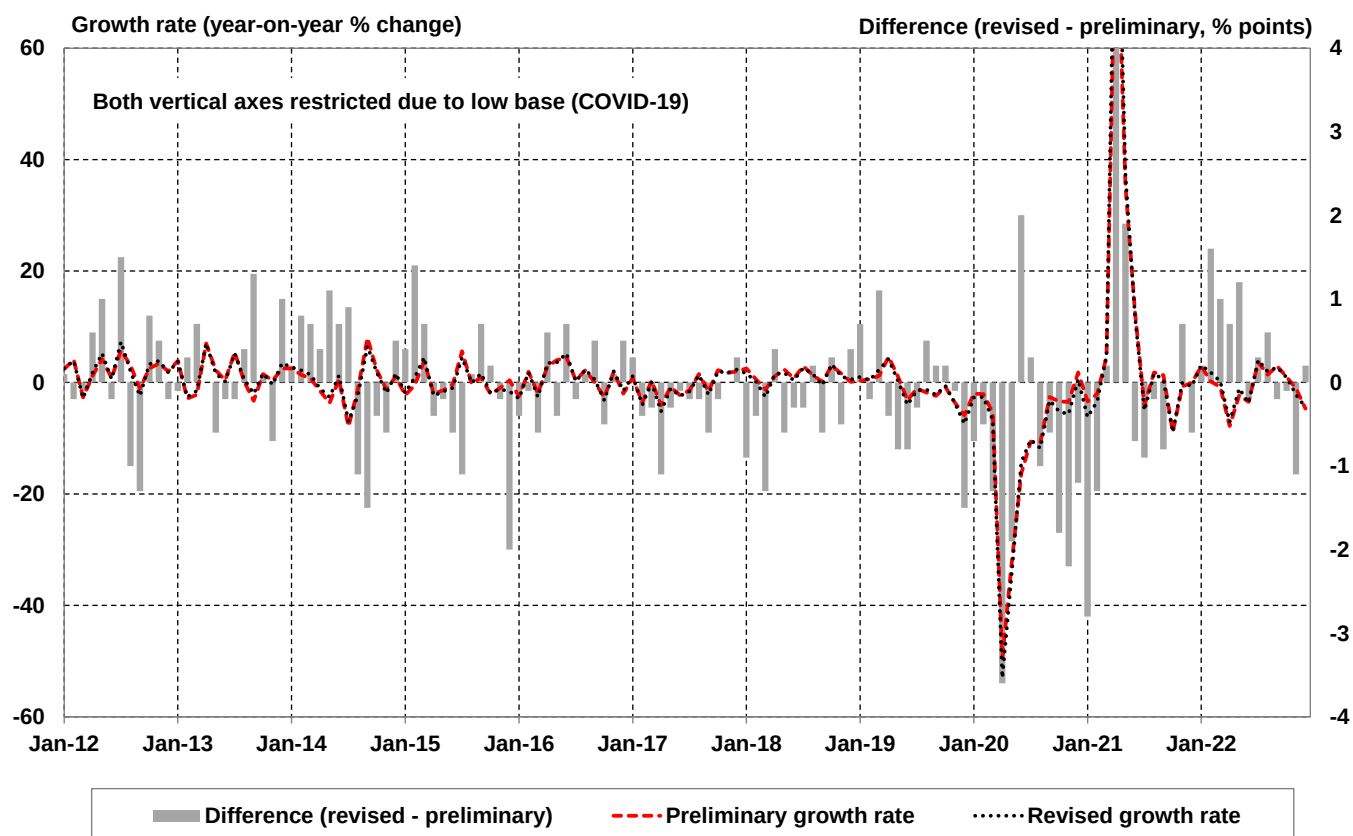
Revisions may be analysed in terms of several dimensions, namely production indices, rand values and/or growth rates (e.g. month-on-month percentage changes, year-on-year percentage changes); seasonally adjusted and/or unadjusted data; totals and/or components; preliminary estimate compared with first 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 December 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: 0,22% Revised: 0,20%	The average of revised growth rates is slightly lower than the average of preliminary growth rates
Mean revision	-0,01 of a percentage point	This is the average of the revisions
Mean absolute revision	0,76 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	
Range within which 90% of the revisions lie	-1,6 to 1,3 percentage points	This may be regarded as the normal range for revisions, with revisions outside this range being outliers

Description	Value / outcome	Comment
Number of upward revisions	57 (or 43,2% of the total observations)	
Number of downward revisions	72 (or 54,5% of the total observations)	
Number of zero revisions	3 (or 2,3% of the total observations)	
Is the mean revision (-0,01) significantly different from zero?	No	This indicates that there is no bias in the preliminary estimates – see Note 1 below
Standard deviation of the revisions	1,53 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	92,4%	This is the percentage of revisions that lie between -1,54 and 1,51 percentage points; the higher the percentage, the lower is the dispersion about the mean – see Figure 4

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

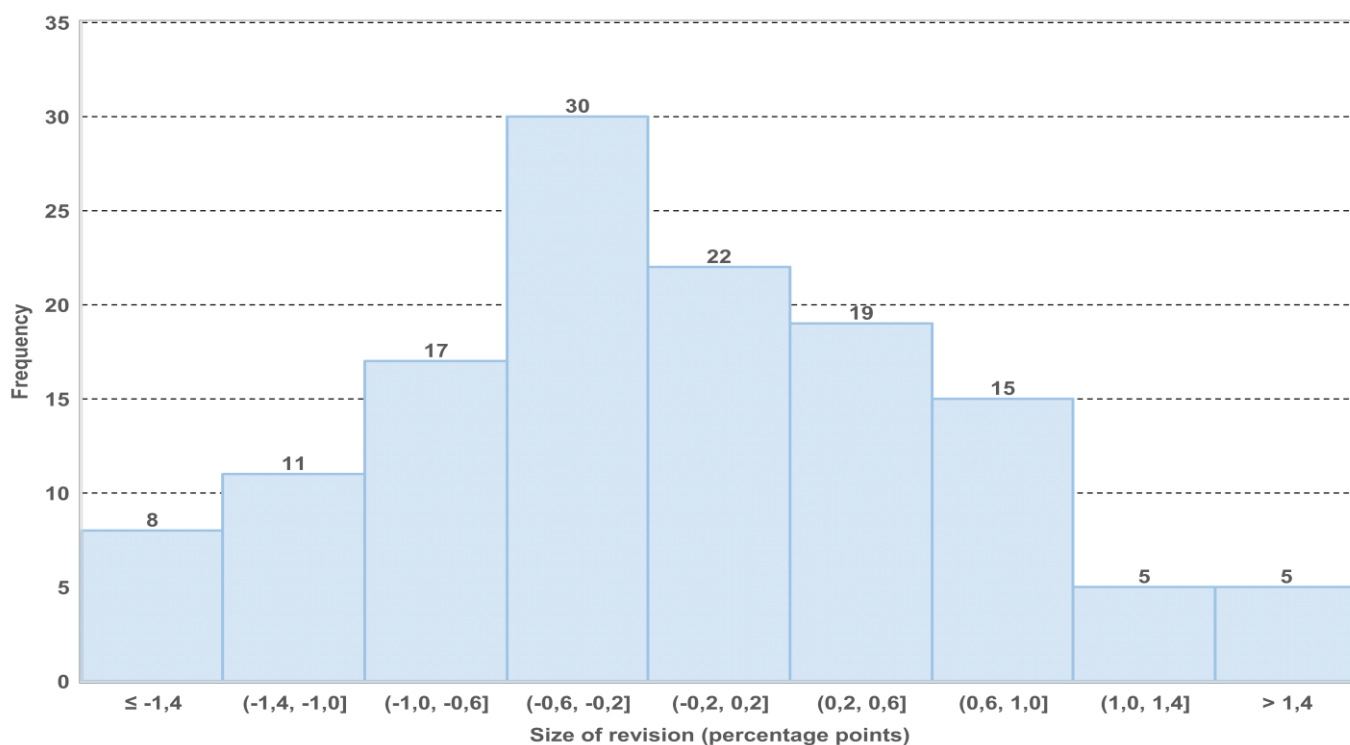
$\hat{\epsilon}_t = R_t - \bar{R}$, with R_t = revision in period t

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 -0,10, which has an absolute value below the critical value of 1,98, indicating that the MR is not significantly different from zero at a 5% significance level. Accordingly, no bias is detected in the preliminary estimates.

Figure 4 shows the revisions in terms of a histogram. There were 30 revisions between -0,6 and -0,2 ($-0,6 < \text{revision} \leq -0,2$) and 22 revisions between -0,2 and 0,2 ($-0,2 < \text{revision} \leq 0,2$). 78,0% 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	1	Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry, covering manufacturing enterprises. This statistical release contains the results of a sample drawn from the business sampling frame (BSF), with enhanced coverage of South African businesses (see 4). The release contains monthly indices of the volume of manufacturing production and monthly value of sales of manufactured products by division and major group.
	2	In accordance with international practice, the indices are usually re-based every five years to a new base year. The current base period of the index is 2019. Both estimated and seasonally adjusted figures are presented.
	3	In order to improve timeliness, some information for the latest month had to be estimated due to late response. These estimates will be revised in future statistical releases as soon as information becomes available.
	4	Stats SA is continuously updating its BSF, based on units registered for value-added tax (VAT) and income tax (IT) obtained from the South African Revenue Service (SARS).
Purpose of the survey	5	The results of the monthly manufacturing production and sales survey are used to calculate the volume of manufacturing production indices in order to estimate the gross domestic product (GDP) and its components, which in turn are used to develop and monitor government policy. These indices provide an indicator of the real level of manufacturing activity in the economy.
Special Data Dissemination Standard of the IMF	6	The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.
Scope of the survey	7	This survey covers manufacturing enterprises, i.e. those conducting activities in - - the manufacturing, processing, making or packing of products; - the slaughtering of animals, including poultry; and - installation, assembly, completion, repair and related work.
Classification	8	The 1993 edition of the <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.
Collection rate	9	The preliminary collection rate for the survey on manufacturing production and sales was 65,2% for January 2023. The improved collection rate for December 2022 was 68,7%.
Statistical unit	10	The statistical unit for which information is compiled and published is an enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.
Revised figures	11	Revised figures are mainly due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures, as indicated in the relevant tables, are subject to change and when revised will not be indicated as such.
Related publications	12	Users may also wish to refer to <i>Stats in Brief</i> available from Stats SA.

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

Technical notes

- Survey methodology and design** 1 The survey is conducted monthly. Questionnaires are sent to a sample of 3 276 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 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 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)
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.

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 – January 2023

	Lower limit (R million)	Estimate (R million)	Upper limit (R million)	Relative standard error (RSE) %
Total sales	219 907	222 391	224 874	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 <i>System of National Accounts</i> (SNA) in the same way as in the <i>Standard Industrial Classification of All Economic Activities</i> (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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