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Manufacturing: Production and sales (Preliminary)

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Production: results for December 2022

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

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

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

Manufacturing production decreased by 4,7% in December 2022 compared with December 2021. The largest contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-12,0% and contributing -2,7 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (-7,0% and contributing -1,3 percentage points); and
- food and beverages (-4,4% and contributing -1,2 percentage points) – see Tables 5 and 6.

Seasonally adjusted manufacturing production increased by 0,1% in December 2022 compared with November 2022. This followed month-on-month changes of 1,4% in November 2022 and -6,0% in October 2022 – see Table A.

In 2022, total manufacturing production decreased by 0,3% compared with 2021. The largest contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-2,5% and contributing -0,5 of a percentage point); and
- wood and wood products, paper, publishing and printing (-2,8% and contributing -0,3 of a percentage point).

Seasonally adjusted manufacturing production decreased by 1,6% in the fourth quarter of 2022 compared with the third quarter of 2022. Five of the ten manufacturing divisions reported negative growth rates over this period.

The largest contributions were made by the following divisions:

- food and beverages (-4,6% and contributing -1,1 percentage points); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (-3,5% and contributing -0,7 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	Jul – Sep 2022	Oct – Dec 2022	% change between Jul – Sep 2022 and Oct – Dec 2022	Contribution (% points) to the total % change
Food and beverages	20,75	102,1	97,4	-4,6	-1,1
Meat, fish, fruit, etc.	3,27	105,4	105,6	0,2	0,0
Dairy products	1,39	94,1	96,2	2,2	0,0
Grain mill products	1,68	98,5	96,2	-2,3	0,0
Other food products	7,75	92,9	93,0	0,1	0,0
Beverages	6,66	113,6	99,1	-12,8	-1,0
Textiles, clothing, leather and footwear	4,26	92,1	92,6	0,5	0,0
Textiles	1,08	106,2	102,8	-3,2	0,0
Other textile products	0,61	93,5	96,0	2,7	0,0
Knitted, crocheted articles	0,06	90,6	95,4	5,3	0,0
Wearing apparel	1,98	81,8	85,4	4,4	0,1
Leather and leather products	0,27	98,8	87,9	-11,0	0,0
Footwear	0,25	103,0	101,8	-1,2	0,0
Wood and wood products, paper, publishing and printing	10,63	95,0	92,2	-2,9	-0,3
Sawmilling and planing of wood	0,87	96,1	94,0	-2,2	0,0
Products of wood	0,88	102,4	105,0	2,5	0,0
Paper and paper products	5,34	96,0	96,8	0,8	0,0
Publishing	2,18	87,0	75,6	-13,1	-0,3
Printing, recorded media	1,35	98,1	91,8	-6,4	-0,1
Petroleum, chemical products, rubber and plastic products	24,95	72,4	73,7	1,8	0,4
Coke, petroleum products and nuclear fuel	11,85	45,9	49,3	7,4	0,4
Basic chemicals	3,50	103,9	99,7	-4,0	-0,2
Other chemical products	6,64	90,6	92,7	2,3	0,2
Rubber products	0,76	92,0	92,2	0,2	0,0
Plastic products	2,20	102,7	99,6	-3,0	-0,1
Glass and non-metallic mineral products	3,24	103,4	105,9	2,4	0,1
Glass and glass products	0,49	104,8	103,3	-1,4	0,0
Non-metallic mineral products	2,75	103,2	106,3	3,0	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	97,6	94,2	-3,5	-0,7
Basic iron and steel products	2,92	88,3	82,1	-7,0	-0,2
Non-ferrous metal products	3,32	89,9	90,3	0,4	0,0
Structural metal products	1,99	98,6	100,7	2,1	0,0
Other fabricated metal products	3,53	102,5	94,0	-8,3	-0,3
General purpose machinery	3,42	108,4	101,2	-6,6	-0,3
Special purpose machinery	3,85	95,5	96,1	0,6	0,0
Household appliances	0,70	103,8	99,6	-4,0	0,0
Electrical machinery	2,21	92,6	98,3	6,2	0,1
Radio, television and communication apparatus and professional equipment	1,07	103,6	104,6	1,0	0,0
Radio, television and communication apparatus	0,04	86,4	90,2	4,4	0,0
Professional equipment	1,03	104,3	105,2	0,9	0,0
Motor vehicles, parts and accessories and other transport equipment	8,89	109,7	108,1	-1,5	-0,2
Motor vehicles	2,78	100,1	96,6	-3,5	-0,1
Bodies for motor vehicles, trailers and semi-trailers	0,73	116,9	113,8	-2,7	0,0
Parts and accessories	3,97	121,9	118,5	-2,8	-0,1
Other transport equipment	1,40	90,1	98,3	9,1	0,1
Furniture and other manufacturing	4,27	90,2	89,4	-0,9	0,0
Furniture	0,78	84,0	92,0	9,5	0,1
Other manufacturing groups	3,49	91,6	88,9	-2,9	-0,1
Total	100	92,6	91,1	-1,6	-1,6

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

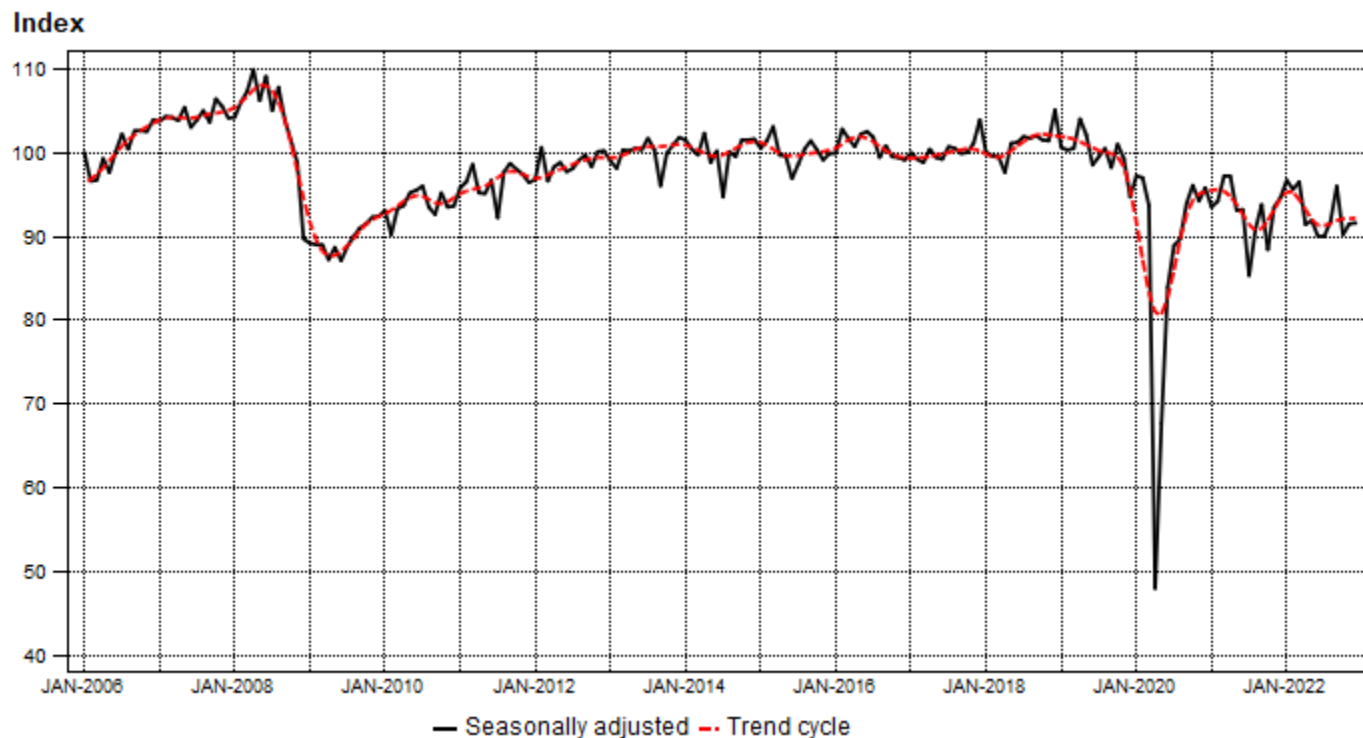
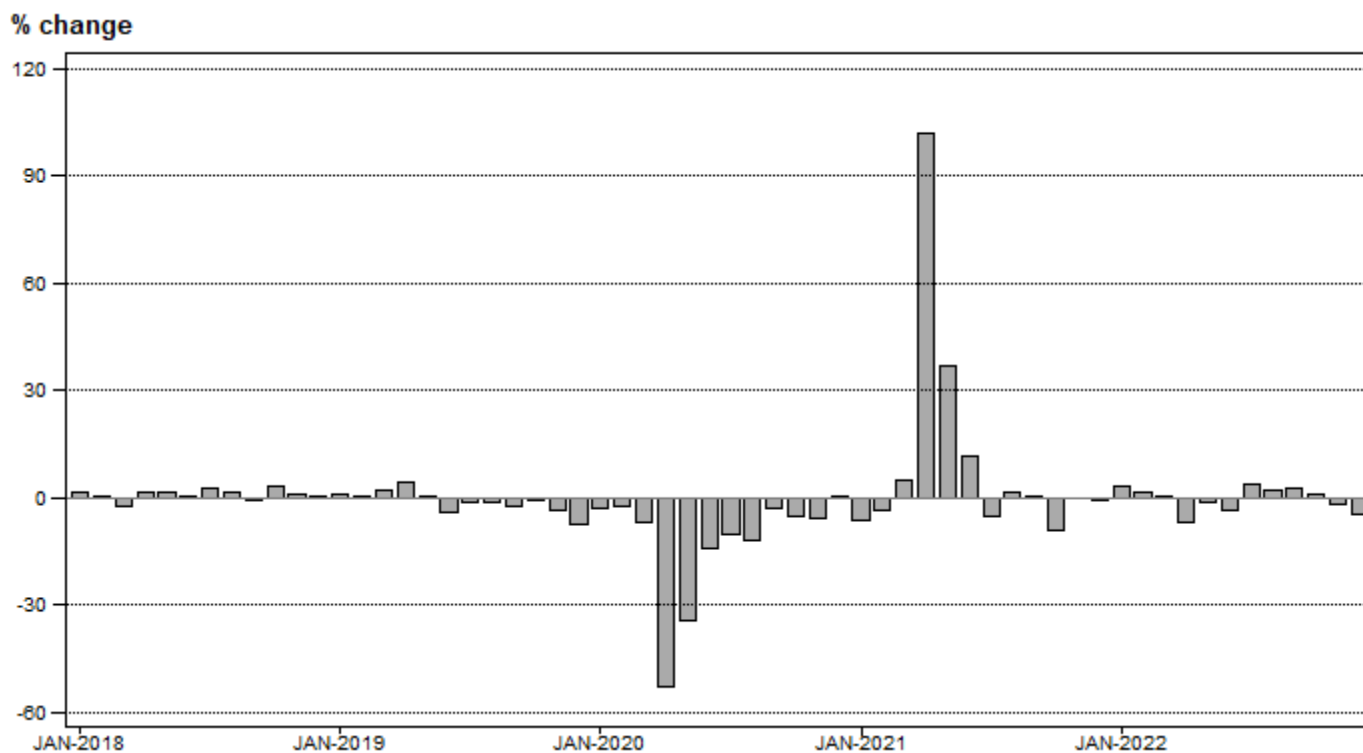


Figure 2 – Volume of manufacturing production (Base: 2019=100): year-on-year percentage change



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

	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Year-on-year % change, unadjusted	24,1	17,0	18,2	15,5	11,4	8,1
Month-on-month % change, seasonally adjusted	0,4	1,1	3,9	-4,7	2,9	1,1
3-month % change, seasonally adjusted ¹	1,3	0,8	3,1	2,2	2,6	0,4

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

Seasonally adjusted manufacturing sales increased by 1,1% in December 2022 compared with November 2022. This followed month-on-month changes of 2,9% in November 2022 and -4,7% in October 2022 – see Table C.

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

Manufacturing division	Jul – Sep 2022 (R million)	Oct – Dec 2022 (R million)	% change between Jul – Sep 2022 and Oct – Dec 2022	Contribution (% points) to the total % change
Food and beverages	184 588	180 836	-2,0	-0,5
Textiles, clothing, leather and footwear	16 641	17 497	5,1	0,1
Wood and wood products, paper, publishing and printing	48 487	49 572	2,2	0,1
Petroleum, chemical products, rubber and plastic products	153 090	156 919	2,5	0,5
Glass and non-metallic mineral products	24 238	25 459	5,0	0,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	168 150	159 038	-5,4	-1,2
Electrical machinery	17 411	18 160	4,3	0,1
Radio, television and communication apparatus and professional equipment	7 839	7 605	-3,0	0,0
Motor vehicles, parts and accessories and other transport equipment	109 920	118 967	8,2	1,2
Furniture and other manufacturing	27 911	27 554	-1,3	0,0
Total	758 275	761 606	0,4	0,4

Seasonally adjusted manufacturing sales increased by 0,4% in the fourth quarter of 2022 compared with the third quarter of 2022.

The largest positive contribution was made by the motor vehicles, parts and accessories and other transport equipment division (8,2% and contributing 1,2 percentage points).

The largest negative contribution was made by the basic iron and steel, non-ferrous metal products, metal products and machinery division (-5,4% and contributing -1,2 percentage points) – 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	84,5
May	101,2	100,1	101,8	102,0	67,0	91,9	90,9
Jun	104,0	101,5	101,9	97,8	83,8	93,7	90,2
Jul	102,2	100,6	103,2	101,8	91,3	86,7	90,2
Aug	103,7	105,0	106,6	105,2	92,8	94,3	96,2
Sep	107,8	105,4	104,9	102,6	99,3	99,8	102,5
Oct	107,6	109,8	113,4	112,7	106,8	97,3	98,3
Nov	112,1	114,0	115,3	111,0	104,7	104,7	102,8
Dec	91,1	93,2	93,7	86,8	87,3	86,7	82,6
Total	100,8	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	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	-7,1	-0,7
May	-1,1	1,7	0,2	-34,3	37,2	-1,1	-0,8
Jun	-2,4	0,4	-4,0	-14,3	11,8	-3,7	-1,3
Jul	-1,6	2,6	-1,4	-10,3	-5,0	4,0	-0,6
Aug	1,3	1,5	-1,3	-11,8	1,6	2,0	-0,2
Sep	-2,2	-0,5	-2,2	-3,2	0,5	2,7	0,1
Oct	2,0	3,3	-0,6	-5,2	-8,9	1,0	0,3
Nov	1,7	1,1	-3,7	-5,7	0,0	-1,8	0,1
Dec	2,3	0,5	-7,4	0,6	-0,7	-4,7	-0,3
Total	-0,7	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			
	2019	2020	2021	2022	2019	2020	2021	2022
Jan	100,6	97,2	93,5	96,7	-4,3	2,6	-2,4	2,2
Feb	100,3	97,0	94,2	95,6	-0,3	-0,2	0,7	-1,1
Mar	100,5	93,7	97,2	96,5	0,2	-3,4	3,2	0,9
Apr	104,0	48,0	97,2	91,4	3,5	-48,8	0,0	-5,3
May	102,1	67,7	93,1	91,9	-1,8	41,0	-4,2	0,5
Jun	98,5	83,9	93,2	90,0	-3,5	23,9	0,1	-2,1
Jul	99,5	88,9	85,3	90,0	1,0	6,0	-8,5	0,0
Aug	100,5	89,7	90,8	91,8	1,0	0,9	6,4	2,0
Sep	98,2	93,9	93,8	96,0	-2,3	4,7	3,3	4,6
Oct	101,0	96,1	88,4	90,2	2,9	2,3	-5,8	-6,0
Nov	99,3	94,2	93,5	91,5	-1,7	-2,0	5,8	1,4
Dec	94,7	95,8	94,6	91,6	-4,6	1,7	1,2	0,1

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

Manufacturing division and major group	Weight	Jul-22	Aug-22	Sep-22	¹ Oct-22	¹ Nov-22	¹ Dec-22
Food and beverages	20,75	94,2	101,7	118,0	105,2	109,2	105,7
Meat, fish, fruit, etc.	3,27	101,2	104,8	109,1	105,3	117,9	113,7
Dairy products	1,39	89,2	93,0	103,4	110,0	109,4	103,2
Grain mill products	1,68	97,4	104,5	99,6	104,7	106,9	89,9
Other food products	7,75	92,9	99,4	113,1	100,5	100,4	85,9
Beverages	6,66	92,5	104,0	135,8	109,8	115,7	129,2
Textiles, clothing, leather and footwear	4,26	94,5	94,8	100,4	106,5	111,2	78,1
Textiles	1,08	114,1	112,5	109,5	107,4	117,4	71,6
Other textile products	0,61	89,9	92,5	103,6	111,7	110,3	81,8
Knitted, crocheted articles	0,06	88,5	96,5	104,6	105,0	105,7	74,4
Wearing apparel	1,98	83,5	82,3	92,3	104,2	106,6	79,2
Leather and leather products	0,27	94,2	98,6	103,2	97,6	106,3	66,4
Footwear	0,25	110,0	118,6	112,6	118,8	129,4	101,7
Wood and wood products, paper, publishing and printing	10,63	88,5	102,9	110,8	101,5	103,5	90,2
Sawmilling and planing of wood	0,87	92,1	111,6	105,6	96,4	102,9	74,3
Products of wood	0,88	107,3	105,3	114,4	120,7	120,9	86,8
Paper and paper products	5,34	89,1	98,7	113,8	102,1	100,2	100,3
Publishing	2,18	74,6	106,7	106,4	92,5	89,2	73,5
Printing, recorded media	1,35	93,8	105,9	107,1	104,1	128,6	89,8
Petroleum, chemical products, rubber and plastic products	24,95	73,4	75,0	75,6	78,0	82,6	69,8
Coke, petroleum products and nuclear fuel	11,85	44,9	50,4	46,0	53,6	52,6	51,9
Basic chemicals	3,50	109,0	106,5	106,3	100,9	106,9	94,5
Other chemical products	6,64	92,7	89,6	97,1	95,6	107,5	85,7
Rubber products	0,76	96,7	91,8	103,9	104,0	103,3	50,5
Plastic products	2,20	103,5	107,5	112,0	110,9	123,5	85,9
Glass and non-metallic mineral products	3,24	102,9	109,9	114,3	119,8	116,9	89,9
Glass and glass products	0,49	99,4	114,1	113,1	113,2	119,3	101,8
Non-metallic mineral products	2,75	103,5	109,1	114,5	121,0	116,5	87,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	96,9	103,7	100,7	101,6	106,1	77,1
Basic iron and steel products	2,92	89,0	82,6	84,9	88,1	82,9	69,6
Non-ferrous metal products	3,32	82,5	97,6	89,2	94,9	95,0	84,2
Structural metal products	1,99	93,3	109,1	117,3	106,5	116,1	80,5
Other fabricated metal products	3,53	101,8	112,0	109,4	104,1	114,1	65,1
General purpose machinery	3,42	112,7	116,1	117,8	113,6	121,8	82,6
Special purpose machinery	3,85	97,9	103,5	90,1	102,4	105,8	80,0
Household appliances	0,70	100,6	104,6	104,8	101,2	110,5	83,1
Electrical machinery	2,21	94,4	95,7	100,3	103,4	107,4	78,5
Radio, television and communication apparatus and professional equipment	1,07	99,3	107,3	106,6	111,6	120,6	108,1
Radio, television and communication apparatus	0,04	65,7	93,8	100,3	115,1	114,3	108,1
Professional equipment	1,03	100,7	107,9	106,9	111,5	120,9	108,1
Motor vehicles, parts and accessories and other transport equipment	8,89	102,3	115,1	135,3	115,9	123,8	64,9
Motor vehicles	2,78	85,0	116,5	136,2	96,5	114,6	52,6
Bodies for motor vehicles, trailers and semi-trailers	0,73	128,8	120,6	127,2	130,9	134,9	68,2
Parts and accessories	3,97	116,7	123,5	145,1	130,2	132,3	63,0
Other transport equipment	1,40	81,9	85,8	110,2	106,0	111,8	92,8
Furniture and other manufacturing	4,27	98,5	90,4	97,7	93,7	102,9	84,1
Furniture	0,78	83,7	87,6	93,8	96,8	115,1	95,2
Other manufacturing groups	3,49	101,8	91,0	98,5	93,0	100,2	81,6
Total	100	90,2	96,2	102,5	98,3	102,8	82,6

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	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Food and beverages	10,3	-3,9	7,8	-3,7	-3,8	-4,4
Meat, fish, fruit, etc.	8,2	9,2	6,3	0,6	4,9	-1,7
Dairy products	-0,1	3,3	7,8	0,7	3,0	6,7
Grain mill products	-5,3	2,6	-3,9	0,4	-7,9	-13,6
Other food products	-11,0	-10,9	2,1	1,3	3,0	0,0
Beverages	70,7	-4,0	17,3	-11,7	-13,3	-8,7
Textiles, clothing, leather and footwear	10,5	3,0	-1,1	-7,5	-7,5	-3,7
Textiles	4,2	2,3	-18,3	-21,8	-13,4	-5,8
Other textile products	12,9	4,2	12,5	0,4	-2,6	7,8
Knitted, crocheted articles	22,4	3,7	23,6	8,6	15,6	20,4
Wearing apparel	17,4	-1,2	3,2	-3,1	-10,9	-7,3
Leather and leather products	4,8	39,3	17,8	1,6	31,1	1,8
Footwear	0,2	3,6	13,2	4,5	2,9	-3,0
Wood and wood products, paper, publishing and printing	2,7	2,9	-2,7	-2,9	-8,7	-1,2
Sawmilling and planing of wood	-1,7	21,7	21,5	9,9	2,5	1,4
Products of wood	5,4	-3,2	2,9	1,4	3,1	-3,8
Paper and paper products	0,7	-4,2	3,6	0,7	-11,2	0,3
Publishing	3,0	14,5	-25,1	-14,4	-10,5	-10,4
Printing, recorded media	10,7	7,1	3,4	-7,4	-10,2	6,4
Petroleum, chemical products, rubber and plastic products	-0,9	-0,4	-10,4	-9,8	-2,6	-12,0
Coke, petroleum products and nuclear fuel	-18,8	-18,8	-21,4	-22,3	-19,8	-27,6
Basic chemicals	5,0	22,6	-7,7	0,9	7,0	4,1
Other chemical products	6,8	8,6	-9,8	-6,5	6,5	-3,6
Rubber products	15,4	-3,4	15,2	0,5	9,2	6,3
Plastic products	20,2	7,9	8,9	4,8	10,3	1,8
Glass and non-metallic mineral products	-0,6	1,3	5,3	6,3	1,9	4,4
Glass and glass products	6,0	18,1	16,6	8,6	7,5	2,9
Non-metallic mineral products	-1,6	-1,4	3,5	5,9	1,0	4,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	-0,2	4,7	-2,0	14,0	-0,1	-7,0
Basic iron and steel products	-7,3	-9,1	-13,0	-6,4	-16,1	-16,0
Non-ferrous metal products	-2,6	7,1	-1,0	31,3	4,5	-6,3
Structural metal products	-4,8	11,2	3,9	16,4	6,8	16,5
Other fabricated metal products	-1,0	9,4	-0,1	17,2	-6,6	-8,2
General purpose machinery	11,6	5,9	4,8	23,7	16,0	-13,1
Special purpose machinery	-4,7	2,6	-8,9	7,1	-4,2	-4,6
Household appliances	25,0	10,6	7,7	8,6	5,6	-1,1
Electrical machinery	1,1	-6,5	-1,0	1,3	-7,1	-9,7
Radio, television and communication apparatus and professional equipment	18,8	20,4	15,1	3,0	8,2	20,8
Radio, television and communication apparatus	0,0	6,5	0,2	-5,1	-6,2	-13,8
Professional equipment	19,5	21,1	15,8	3,4	8,8	22,8
Motor vehicles, parts and accessories and other transport equipment	11,8	20,1	40,9	22,5	11,5	12,9
Motor vehicles	56,8	60,2	61,6	11,8	8,6	10,5
Bodies for motor vehicles, trailers and semi-trailers	16,4	10,7	2,9	20,6	10,2	0,0
Parts and accessories	1,7	11,2	50,1	34,6	18,4	24,0
Other transport equipment	-8,4	-6,1	7,5	8,1	-2,0	2,2
Furniture and other manufacturing	2,7	-7,9	3,6	0,9	-3,9	-3,4
Furniture	-2,3	-14,0	-18,5	-10,2	-6,1	-4,7
Other manufacturing groups	3,8	-6,6	9,8	3,9	-3,3	-3,1
Total	4,0	2,0	2,7	1,0	-1,8	-4,7

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

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	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Month-on-month % change
Food and beverages	20,75	97,5	108,9	96,4	96,7	99,2	2,6
Meat, fish, fruit, etc.	3,27	104,3	106,8	103,9	107,6	105,4	-2,0
Dairy products	1,39	92,1	95,9	97,2	96,0	95,3	-0,7
Grain mill products	1,68	100,0	97,8	100,8	96,6	91,2	-5,6
Other food products	7,75	88,1	101,5	92,6	91,0	95,3	4,7
Beverages	6,66	105,5	124,2	95,8	98,1	103,4	5,4
Textiles, clothing, leather and footwear	4,26	92,4	94,0	89,7	93,8	94,2	0,4
Textiles	1,08	110,1	101,9	95,3	104,5	108,5	3,8
Other textile products	0,61	93,7	95,9	95,7	92,7	99,7	7,6
Knitted, crocheted articles	0,06	88,9	93,0	93,4	94,3	98,6	4,6
Wearing apparel	1,98	80,0	87,3	84,1	86,2	85,8	-0,5
Leather and leather products	0,27	99,9	97,2	83,7	102,8	77,3	-24,8
Footwear	0,25	103,2	105,5	101,8	101,3	102,4	1,1
Wood and wood products, paper, publishing and printing	10,63	97,4	96,6	92,7	89,3	94,7	6,0
Sawmilling and planing of wood	0,87	103,6	98,6	92,2	95,1	94,8	-0,3
Products of wood	0,88	99,7	104,8	102,5	105,5	106,9	1,3
Paper and paper products	5,34	96,4	99,2	99,1	91,3	100,0	9,5
Publishing	2,18	94,4	85,1	76,8	74,0	76,1	2,8
Printing, recorded media	1,35	100,3	98,0	87,2	92,3	95,9	3,9
Petroleum, chemical products, rubber and plastic products	24,95	71,9	73,0	72,5	74,8	73,7	-1,5
Coke, petroleum products and nuclear fuel	11,85	47,7	46,7	48,3	50,0	49,6	-0,8
Basic chemicals	3,50	102,4	101,4	98,2	99,3	101,7	2,4
Other chemical products	6,64	86,9	92,3	91,6	95,2	91,4	-4,0
Rubber products	0,76	89,0	97,7	92,8	93,8	90,1	-3,9
Plastic products	2,20	102,9	102,7	97,4	100,9	100,5	-0,4
Glass and non-metallic mineral products	3,24	103,6	106,4	104,7	104,1	108,8	4,5
Glass and glass products	0,49	106,7	107,8	102,0	103,3	104,6	1,3
Non-metallic mineral products	2,75	103,0	106,2	105,2	104,3	109,5	5,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,73	100,5	96,0	94,4	96,8	91,3	-5,7
Basic iron and steel products	2,92	86,6	85,1	82,9	82,8	80,5	-2,8
Non-ferrous metal products	3,32	94,4	89,2	90,5	91,8	88,6	-3,5
Structural metal products	1,99	101,4	105,3	97,0	99,6	105,6	6,0
Other fabricated metal products	3,53	108,0	101,4	91,2	97,7	93,2	-4,6
General purpose machinery	3,42	108,1	107,9	105,6	107,0	91,0	-15,0
Special purpose machinery	3,85	101,7	88,6	97,0	99,7	91,6	-8,1
Household appliances	0,70	103,5	103,4	99,3	99,9	99,5	-0,4
Electrical machinery	2,21	91,6	92,0	95,7	95,5	103,7	8,6
Radio, television and communication apparatus and professional equipment	1,07	107,5	103,5	102,2	105,0	106,5	1,4
Radio, television and communication apparatus	0,04	92,9	90,3	90,8	88,3	91,6	3,7
Professional equipment	1,03	108,1	104,1	102,6	105,7	107,2	1,4
Motor vehicles, parts and accessories and other transport equipment	8,89	105,1	129,0	106,8	109,9	107,6	-2,1
Motor vehicles	2,78	97,7	124,4	86,8	99,1	103,9	4,8
Bodies for motor vehicles, trailers and semi-trailers	0,73	115,0	117,2	118,5	113,9	108,9	-4,4
Parts and accessories	3,97	114,5	145,2	121,4	120,1	114,1	-5,0
Other transport equipment	1,40	87,8	98,1	99,0	100,3	95,7	-4,6
Furniture and other manufacturing	4,27	86,0	91,2	86,5	88,2	93,6	6,1
Furniture	0,78	81,0	84,4	83,2	88,7	104,2	17,5
Other manufacturing groups	3,49	87,2	92,7	87,3	88,1	91,2	3,5
Total	100	91,8	96,0	90,2	91,5	91,6	0,1

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

Month	2016	2017	2018	2019	2020	2021	2022 ¹
Jan	148 755	160 525	167 548	183 379	182 810	179 439	203 502
Feb	172 469	175 284	186 833	197 889	202 751	206 844	229 922
Mar	182 720	196 317	198 873	216 145	202 704	238 957	260 280
Apr	173 354	170 582	178 303	205 339	98 153	216 628	224 281
May	187 309	193 831	207 711	215 489	145 978	222 587	250 160
Jun	191 125	197 264	207 188	215 533	178 506	229 004	251 809
Jul	185 058	188 822	210 326	219 394	192 336	198 298	246 010
Aug	191 370	200 787	217 655	228 219	198 640	219 992	257 345
Sep	197 837	202 754	221 058	219 593	213 806	231 917	274 061
Oct	198 077	212 440	239 210	239 383	234 021	230 295	265 970
Nov	211 048	230 169	243 365	237 498	238 072	258 050	287 506
Dec	175 441	187 323	196 436	190 046	196 767	217 403	234 982
Total	2 214 563	2 316 098	2 474 506	2 567 907	2 284 544	2 649 414	2 985 828

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	7,9	4,4	9,4	-0,3	-1,8	13,4	13,4
Feb	1,6	6,6	5,9	2,5	2,0	11,2	12,2
Mar	7,4	1,3	8,7	-6,2	17,9	8,9	11,0
Apr	-1,6	4,5	15,2	-52,2	120,7	3,5	9,0
May	3,5	7,2	3,7	-32,3	52,5	12,4	9,7
Jun	3,2	5,0	4,0	-17,2	28,3	10,0	9,8
Jul	2,0	11,4	4,3	-12,3	3,1	24,1	11,7
Aug	4,9	8,4	4,9	-13,0	10,7	17,0	12,4
Sep	2,5	9,0	-0,7	-2,6	8,5	18,2	13,1
Oct	7,3	12,6	0,1	-2,2	-1,6	15,5	13,3
Nov	9,1	5,7	-2,4	0,2	8,4	11,4	13,1
Dec	6,8	4,9	-3,3	3,5	10,5	8,1	12,7
Total	4,6	6,8	3,8	-11,0	16,0	12,7	

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	213 952	211 346	211 761	241 647	-0,6	2,9	-0,5	3,8
Feb	210 920	214 391	218 398	243 244	-1,4	1,4	3,1	0,7
Mar	213 218	198 325	230 602	249 857	1,1	-7,5	5,6	2,7
Apr	221 168	104 697	229 598	240 035	3,7	-47,2	-0,4	-3,9
May	211 474	146 105	224 444	248 523	-4,4	39,6	-2,2	3,5
Jun	214 445	174 701	223 581	246 607	1,4	19,6	-0,4	-0,8
Jul	216 457	188 681	197 848	247 599	0,9	8,0	-11,5	0,4
Aug	221 306	196 765	216 163	250 395	2,2	4,3	9,3	1,1
Sep	213 211	204 721	222 281	260 281	-3,7	4,0	2,8	3,9
Oct	216 190	212 206	212 283	248 057	1,4	3,7	-4,5	-4,7
Nov	210 482	213 421	228 920	255 357	-2,6	0,6	7,8	2,9
Dec	205 340	212 844	232 903	258 192	-2,4	-0,3	1,7	1,1

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

Manufacturing division and major group	Jul-22	Aug-22	Sep-22	¹ Oct-22	¹ Nov-22	¹ Dec-22
Food and beverages	56 519	61 720	66 245	64 655	70 062	65 274
Meat, fish, fruit, etc.	17 286	18 398	19 237	18 972	21 624	20 080
Dairy products	4 714	5 188	5 580	6 289	6 180	5 823
Grain mill products	10 567	10 731	10 894	11 487	11 950	10 160
Other food products	10 792	12 616	11 792	12 582	13 828	10 737
Beverages	13 162	14 786	18 742	15 326	16 480	18 474
Textiles, clothing, leather and footwear	5 545	5 806	6 215	6 659	7 099	5 160
Textiles	753	800	841	814	882	564
Other textile products	1 536	1 583	1 775	1 951	1 969	1 539
Knitted, crocheted articles	215	238	272	249	255	188
Wearing apparel	1 568	1 726	1 828	2 132	2 347	1 631
Leather and leather products	595	520	606	579	624	415
Footwear	878	940	893	933	1 023	823
Wood and wood products, paper, publishing and printing	14 955	16 865	19 456	17 530	18 713	16 454
Sawmilling and planing of wood	1 264	1 305	1 231	1 199	1 273	1 025
Products of wood	2 202	2 260	2 368	2 427	2 529	1 625
Paper and paper products	7 395	8 382	10 688	8 854	9 169	9 699
Publishing	1 195	1 702	1 917	1 658	1 654	1 351
Printing, recorded media	2 899	3 215	3 253	3 392	4 088	2 755
Petroleum, chemical products, rubber and plastic products	48 216	52 005	54 857	55 624	59 136	49 200
Coke, petroleum products and nuclear fuel	13 152	14 571	15 437	17 544	16 047	15 715
Basic chemicals	11 527	12 052	12 567	11 756	13 529	10 735
Other chemical products	13 285	14 313	15 383	14 671	17 157	14 086
Rubber products	1 692	1 825	1 935	1 876	2 072	1 699
Plastic products	8 561	9 244	9 536	9 777	10 332	6 964
Glass and non-metallic mineral products	8 101	8 664	9 041	9 369	9 437	7 133
Glass and glass products	1 256	1 558	1 564	1 558	1 724	1 432
Non-metallic mineral products	6 845	7 106	7 477	7 811	7 713	5 700
Basic iron and steel, non-ferrous metal products, metal products and machinery	56 430	57 160	57 629	53 354	60 110	45 109
Basic iron and steel products	13 653	13 478	13 103	11 011	12 318	9 677
Non-ferrous metal products	17 379	16 310	16 698	15 456	18 602	15 458
Structural metal products	3 982	4 630	5 009	4 584	5 082	3 617
Other fabricated metal products	8 322	9 035	9 242	8 556	9 486	5 598
General purpose machinery	5 399	5 650	5 898	5 758	6 122	4 216
Special purpose machinery	6 549	6 876	6 452	6 817	7 216	5 509
Household appliances	1 146	1 181	1 226	1 172	1 285	1 034
Electrical machinery	5 835	5 881	6 352	6 357	6 695	5 333
Radio, television and communication apparatus and professional equipment	2 446	2 634	2 814	2 706	2 933	2 970
Radio, television and communication apparatus	976	1 089	1 223	1 109	1 131	1 290
Professional equipment	1 469	1 545	1 592	1 597	1 802	1 679
Motor vehicles, parts and accessories and other transport equipment	38 379	37 574	41 751	40 224	42 983	28 793
Motor vehicles	24 971	23 037	24 717	24 431	25 240	16 920
Bodies for motor vehicles, trailers and semi-trailers	1 663	1 623	1 695	1 770	1 819	1 093
Parts and accessories	9 133	10 196	11 817	10 625	12 322	7 789
Other transport equipment	2 612	2 719	3 521	3 399	3 603	2 990
Furniture and other manufacturing	9 585	9 036	9 702	9 492	10 337	9 557
Furniture	1 400	1 442	1 562	1 494	1 638	1 318
Other manufacturing groups	8 185	7 594	8 140	7 998	8 699	8 239
Total	246 010	257 345	274 061	265 970	287 506	234 982

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	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Food and beverages	21,5	10,3	15,5	8,7	11,0	3,6
Meat, fish, fruit, etc.	24,9	24,9	21,0	16,9	26,2	9,0
Dairy products	5,3	17,9	22,1	24,1	24,1	20,4
Grain mill products	18,5	20,4	20,6	18,7	13,1	9,5
Other food products	-10,9	-3,5	1,9	10,9	23,2	13,6
Beverages	83,4	-0,4	15,1	-10,7	-14,3	-12,2
Textiles, clothing, leather and footwear	17,6	12,6	13,8	5,8	5,4	6,8
Textiles	10,4	10,0	6,1	-12,4	1,1	1,1
Other textile products	20,4	14,2	18,0	9,1	5,4	24,1
Knitted, crocheted articles	22,2	9,2	39,5	16,9	17,5	32,4
Wearing apparel	19,3	6,2	2,6	3,1	-2,9	-7,5
Leather and leather products	19,2	32,3	24,7	16,5	38,4	13,1
Footwear	13,7	16,8	27,8	16,8	12,4	7,9
Wood and wood products, paper, publishing and printing	18,4	15,5	16,4	12,2	5,9	16,3
Sawmilling and planing of wood	41,7	32,9	32,4	27,6	17,9	20,9
Products of wood	12,8	8,0	10,8	9,3	10,2	7,4
Paper and paper products	16,2	12,9	24,5	12,7	0,9	18,8
Publishing	12,4	22,4	-14,9	0,5	6,4	7,1
Printing, recorded media	23,0	18,3	15,4	14,5	11,9	16,7
Petroleum, chemical products, rubber and plastic products	21,9	24,0	15,7	13,9	17,1	5,7
Coke, petroleum products and nuclear fuel	17,4	8,6	17,5	18,7	1,4	-3,0
Basic chemicals	26,4	44,3	15,3	5,9	24,1	4,1
Other chemical products	17,6	27,5	9,7	11,8	29,8	16,8
Rubber products	18,2	19,2	21,5	6,2	20,3	22,0
Plastic products	31,9	24,5	22,9	21,3	17,3	6,1
Glass and non-metallic mineral products	10,9	13,0	14,3	13,9	11,9	18,4
Glass and glass products	18,8	33,3	33,9	22,1	26,6	15,2
Non-metallic mineral products	9,5	9,4	10,9	12,3	9,1	19,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	15,8	5,1	1,4	10,4	-5,0	-2,5
Basic iron and steel products	15,5	2,2	-19,8	4,3	-35,1	-15,0
Non-ferrous metal products	16,8	-12,1	4,7	-10,1	1,8	-1,5
Structural metal products	9,1	24,3	15,5	26,1	17,6	31,0
Other fabricated metal products	13,0	18,0	13,9	30,1	2,2	4,5
General purpose machinery	29,9	26,6	16,2	39,1	31,0	-1,8
Special purpose machinery	9,1	18,5	7,1	30,6	10,1	-4,9
Household appliances	31,0	18,9	21,3	16,2	11,3	6,5
Electrical machinery	14,1	9,0	12,6	19,5	4,1	8,3
Radio, television and communication apparatus and professional equipment	32,6	20,4	17,1	0,7	-2,1	11,6
Radio, television and communication apparatus	35,9	9,4	8,3	-13,0	-25,3	-9,5
Professional equipment	30,5	29,5	25,0	13,0	21,7	36,0
Motor vehicles, parts and accessories and other transport equipment	63,5	56,3	79,4	53,8	48,3	48,7
Motor vehicles	118,0	89,6	114,8	60,3	62,1	54,4
Bodies for motor vehicles, trailers and semi-trailers	37,3	27,7	29,4	40,5	33,0	27,2
Parts and accessories	8,7	25,5	54,5	53,0	39,4	56,8
Other transport equipment	8,3	9,5	25,3	25,5	12,8	16,1
Furniture and other manufacturing	14,2	4,5	9,1	1,4	3,9	-1,0
Furniture	6,6	-4,3	-8,8	-14,3	-18,0	-20,3
Other manufacturing groups	15,6	6,3	13,4	5,0	9,4	2,9
Total	24,1	17,0	18,2	15,5	11,4	8,1

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

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

Manufacturing division and major group	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Month-on-month % change
Food and beverages	60 522	63 623	59 965	61 641	59 230	-3,9
Meat, fish, fruit, etc.	18 018	18 582	18 232	19 605	18 392	-6,2
Dairy products	5 088	5 322	5 751	5 515	5 359	-2,8
Grain mill products	10 458	10 767	10 791	10 681	10 326	-3,3
Other food products	11 495	11 715	11 313	12 263	11 405	-7,0
Beverages	15 462	17 238	13 878	13 576	13 748	1,3
Textiles, clothing, leather and footwear	5 535	5 751	5 782	5 765	5 950	3,2
Textiles	766	758	722	752	787	4,7
Other textile products	1 612	1 651	1 698	1 649	1 903	15,4
Knitted, crocheted articles	217	245	223	229	248	8,3
Wearing apparel	1 593	1 735	1 820	1 795	1 752	-2,4
Leather and leather products	539	545	525	567	483	-14,8
Footwear	808	817	795	773	777	0,5
Wood and wood products, paper, publishing and printing	16 117	17 018	16 332	15 961	17 279	8,3
Sawmilling and planing of wood	1 171	1 155	1 164	1 184	1 225	3,5
Products of wood	2 084	2 125	2 134	2 171	2 111	-2,8
Paper and paper products	8 326	9 276	8 768	8 369	9 641	15,2
Publishing	1 498	1 479	1 387	1 325	1 356	2,3
Printing, recorded media	3 037	2 983	2 879	2 912	2 946	1,2
Petroleum, chemical products, rubber and plastic products	50 945	52 544	52 164	52 404	52 351	-0,1
Coke, petroleum products and nuclear fuel	14 512	16 005	17 075	15 475	15 569	0,6
Basic chemicals	11 770	11 578	10 820	11 530	11 672	1,2
Other chemical products	14 103	14 404	14 095	14 927	14 619	-2,1
Rubber products	1 801	1 835	1 706	1 879	2 226	18,5
Plastic products	8 759	8 722	8 468	8 593	8 267	-3,8
Glass and non-metallic mineral products	8 082	8 272	8 301	8 219	8 939	8,8
Glass and glass products	1 467	1 454	1 301	1 417	1 468	3,6
Non-metallic mineral products	6 615	6 818	7 000	6 802	7 471	9,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	56 038	55 433	50 507	54 793	53 738	-1,9
Basic iron and steel products	13 552	12 822	10 703	11 575	12 149	5,0
Non-ferrous metal products	16 691	17 017	14 837	17 394	17 279	-0,7
Structural metal products	4 345	4 493	4 213	4 358	4 684	7,5
Other fabricated metal products	8 294	8 357	7 814	8 064	7 736	-4,1
General purpose machinery	5 252	5 320	5 347	5 628	4 857	-13,7
Special purpose machinery	6 698	6 199	6 494	6 612	5 835	-11,8
Household appliances	1 206	1 225	1 099	1 162	1 197	3,0
Electrical machinery	5 704	5 880	5 954	5 838	6 368	9,1
Radio, television and communication apparatus and professional equipment	2 631	2 657	2 493	2 495	2 617	4,9
Radio, television and communication apparatus	1 072	1 124	965	903	995	10,2
Professional equipment	1 559	1 533	1 528	1 592	1 621	1,8
Motor vehicles, parts and accessories and other transport equipment	35 819	39 638	37 712	39 085	42 170	7,9
Motor vehicles	21 587	22 940	22 346	23 476	25 278	7,7
Bodies for motor vehicles, trailers and semi-trailers	1 520	1 584	1 597	1 549	1 557	0,5
Parts and accessories	9 925	11 999	10 602	10 831	12 246	13,1
Other transport equipment	2 787	3 114	3 167	3 229	3 089	-4,3
Furniture and other manufacturing	9 003	9 465	8 848	9 157	9 549	4,3
Furniture	1 406	1 385	1 206	1 259	1 443	14,6
Other manufacturing groups	7 597	8 080	7 642	7 898	8 107	2,6
Total	250 395	260 281	248 057	255 357	258 192	1,1

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 63,5% for December 2022. The improved collection rate for November 2022 was 65,6%.</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 3 276 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 limits	Upper limits
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 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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Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English.

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