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Production: results for December 2021**Table A – Key growth rates in the volume of manufacturing production**

	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Year-on-year % change, unadjusted	-4,8	2,2	0,6	-9,1	-0,1	-0,1
Month-on-month % change, seasonally adjusted	-8,3	7,4	2,8	-5,4	4,9	2,3
3-month % change, seasonally adjusted ¹	-5,9	-6,4	-4,2	1,1	2,6	2,5

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

Manufacturing production decreased by 0,1% in December 2021 compared with December 2020. The largest negative contributions were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (-8,0% and contributing -0,5 of a percentage point); and
- petroleum, chemical products, rubber and plastic products (-2,3% and contributing -0,5 of a percentage point).

The largest positive contributions were made by the following divisions:

- wood and wood products, paper, publishing and printing (5,0% and contributing 0,5 of a percentage point); and
- electrical machinery (23,4% and contributing 0,4 of a percentage point) – see Tables 5 and 6.

Seasonally adjusted manufacturing production increased by 2,3% in December 2021 compared with November 2021. This followed month-on-month changes of 4,9% in November 2021 and -5,4% in October 2021 – see Table A.

In 2021, total manufacturing production increased by 6,4% compared with 2020. Nine of the ten manufacturing divisions reported positive growth rates over this period. The largest contributions were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (34,1% and contributing 2,6 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (9,9% and contributing 1,9 percentage points);
- food and beverages (6,1% and contributing 1,5 percentage points); and
- wood and wood products, paper, publishing and printing (9,9% and contributing 1,0 percentage point).

Seasonally adjusted manufacturing production increased by 2,5% in the fourth quarter of 2021 compared with the third quarter of 2021. Eight of the ten manufacturing divisions reported positive growth rates over this period.

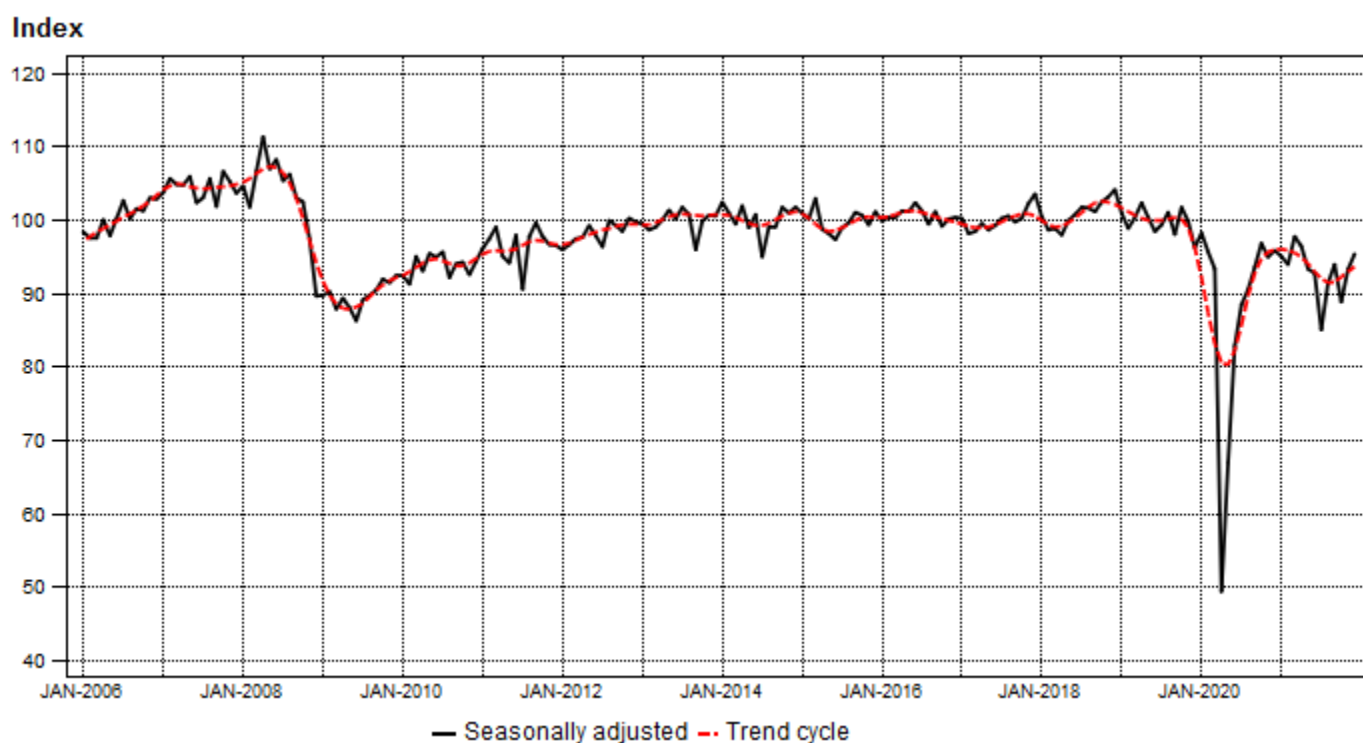
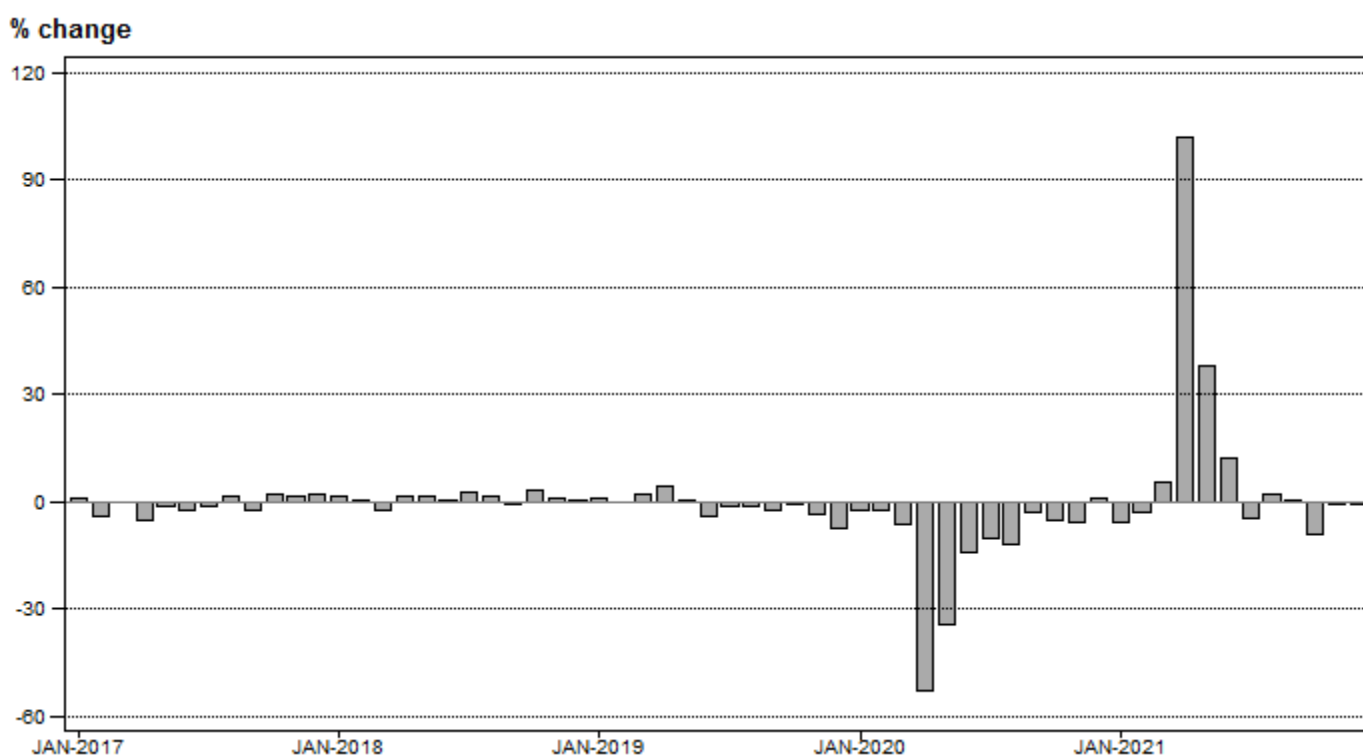
The largest positive contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (6,0% and contributing 1,3 percentage points); and
- food and beverages (3,2% and contributing 0,8 of a percentage point).

The largest negative contribution was made by the basic iron and steel, non-ferrous metal products, metal products and machinery division (-4,0% and contributing -0,8 of a percentage point) – see Table B.

Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2015=100)

Manufacturing division and major group	Weights	Jul – Sep 2021	Oct – Dec 2021	% change between Jul – Sep 2021 and Oct – Dec 2021	Contribution (% points) to the total % change
Food and beverages	20,18	107,9	111,3	3,2	0,8
Meat, fish, fruit, etc.	2,95	102,3	107,5	5,1	0,2
Dairy products	1,34	104,8	109,4	4,4	0,1
Grain mill products	1,69	98,0	100,7	2,8	0,1
Other food products	7,76	115,0	107,2	-6,8	-0,7
Beverages	6,44	105,1	121,2	15,3	1,1
Textiles, clothing, leather and footwear	4,38	75,6	85,2	12,7	0,5
Textiles	1,10	107,4	113,4	5,6	0,1
Other textile products	0,65	77,7	81,7	5,1	0,0
Knitted, crocheted articles	0,06	63,5	69,0	8,7	0,0
Wearing apparel	2,04	57,5	74,2	29,0	0,4
Leather and leather products	0,28	60,6	53,7	-11,4	0,0
Footwear	0,25	98,9	99,5	0,6	0,0
Wood and wood products, paper, publishing and printing	10,77	86,7	89,2	2,9	0,3
Sawmilling and planing of wood	0,93	82,8	85,5	3,3	0,0
Products of wood	0,87	99,5	104,8	5,3	0,1
Paper and paper products	5,39	92,1	97,9	6,3	0,3
Publishing	2,24	71,6	64,8	-9,5	-0,2
Printing, recorded media	1,34	85,1	87,7	3,1	0,0
Petroleum, chemical products, rubber and plastic products	25,38	74,6	79,1	6,0	1,3
Coke, petroleum products and nuclear fuel	12,02	59,0	68,6	16,3	1,3
Basic chemicals	3,69	91,1	86,8	-4,7	-0,2
Other chemical products	6,54	84,5	86,3	2,1	0,1
Rubber products	0,84	82,7	87,3	5,6	0,0
Plastic products	2,29	97,9	98,3	0,4	0,0
Glass and non-metallic mineral products	3,42	90,2	92,4	2,4	0,1
Glass and glass products	0,51	103,1	108,9	5,6	0,0
Non-metallic mineral products	2,91	87,9	89,5	1,8	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,47	97,1	93,2	-4,0	-0,8
Basic iron and steel products	2,82	108,2	102,5	-5,3	-0,2
Non-ferrous metal products	3,26	90,1	86,1	-4,4	-0,1
Structural metal products	1,98	82,9	78,5	-5,3	-0,1
Other fabricated metal products	3,35	100,7	96,2	-4,5	-0,2
General purpose machinery	3,46	98,9	95,1	-3,8	-0,1
Special purpose machinery	3,87	98,8	96,3	-2,5	-0,1
Household appliances	0,73	90,1	91,4	1,4	0,0
Electrical machinery	2,31	78,7	88,7	12,7	0,3
Radio, television and communication apparatus and professional equipment	1,21	72,9	81,0	11,1	0,1
Radio, television and communication apparatus	0,13	80,5	100,6	25,0	0,0
Professional equipment	1,08	71,9	78,7	9,5	0,1
Motor vehicles, parts and accessories and other transport equipment	8,66	92,2	95,9	4,0	0,4
Motor vehicles	2,65	60,7	87,4	44,0	0,8
Bodies for motor vehicles, trailers and semi-trailers	0,71	118,1	114,0	-3,5	0,0
Parts and accessories	3,93	115,7	105,1	-9,2	-0,5
Other transport equipment	1,37	72,3	76,4	5,7	0,1
Furniture and other manufacturing	4,21	98,7	94,6	-4,2	-0,2
Furniture	0,86	80,7	84,9	5,2	0,0
Other manufacturing groups	3,35	103,3	97,2	-5,9	-0,2
Total	100	90,2	92,5	2,5	2,5

Figure 1 – Volume of manufacturing production (Base: 2015=100)**Figure 2 – Volume of manufacturing production (Base: 2015=100): year-on-year percentage change**

Sales: results for December 2021**Table C – Key growth rates in manufacturing sales at current prices**

	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Year-on-year % change, unadjusted	3,6	11,4	8,6	-2,0	8,9	10,5
Month-on-month % change, seasonally adjusted	-12,5	9,0	3,2	-6,3	8,7	2,8
3-month % change, seasonally adjusted ¹	-4,8	-7,3	-6,7	-0,6	2,8	5,1

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

Seasonally adjusted manufacturing sales increased by 2,8% in December 2021 compared with November 2021. This followed month-on-month changes of 8,7% in November 2021 and -6,3% in October 2021 – see Table C.

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

Manufacturing division	Jul – Sep 2021 (R million)	Oct – Dec 2021 (R million)	% change between Jul – Sep 2021 and Oct – Dec 2021	Contribution (% points) to the total % change
Food and beverages	156 720	162 711	3,8	1,0
Textiles, clothing, leather and footwear	14 033	15 365	9,5	0,2
Wood and wood products, paper, publishing and printing	40 345	43 551	7,9	0,5
Petroleum, chemical products, rubber and plastic products	110 856	119 190	7,5	1,4
Glass and non-metallic mineral products	18 355	18 620	1,4	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	155 447	155 626	0,1	0,0
Electrical machinery	15 418	16 821	9,1	0,2
Radio, television and communication apparatus and professional equipment	5 859	6 736	15,0	0,1
Motor vehicles, parts and accessories and other transport equipment	65 972	74 377	12,7	1,4
Furniture and other manufacturing	24 479	25 426	3,9	0,2
Total	607 484	638 425	5,1	5,1

Seasonally adjusted manufacturing sales increased by 5,1% in the fourth quarter of 2021 compared with the third quarter of 2021. All ten manufacturing divisions reported positive growth rates over this period. The largest positive contributions were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (12,7% and contributing 1,4 percentage points);
- petroleum, chemical products, rubber and plastic products (7,5% and contributing 1,4 percentage points); and
- food and beverages (3,8% and contributing 1,0 percentage point) – see Table D.

Risenga Maluleke
Statistician-General

Tables

Table 1 – Index of the volume of manufacturing production (Base: 2015=100)

Month	2015	2016	2017	2018	2019	2020	2021 ¹
Jan	87,2	84,7	85,6	87,0	87,8	85,6	80,5
Feb	96,4	98,1	94,2	94,4	94,4	92,0	89,4
Mar	104,1	101,4	101,4	98,8	100,9	94,3	99,2
Apr	92,2	95,4	90,4	91,8	95,9	45,4	91,6
May	97,6	101,1	100,0	101,7	102,3	67,0	92,5
Jun	98,8	103,9	101,4	101,8	97,8	84,0	94,0
Jul	101,9	102,1	100,5	103,1	101,8	91,4	87,0
Aug	101,3	103,6	104,9	106,5	105,1	92,8	94,8
Sep	107,2	107,7	105,3	104,8	102,3	99,2	99,8
Oct	111,1	107,5	109,7	113,2	112,5	106,8	97,1
Nov	109,8	112,0	113,8	115,1	110,8	104,7	104,6
Dec	92,4	91,0	93,1	93,6	86,8	87,5	87,4
Total	100,0	100,7	100,0	101,0	99,9	87,6	93,2

¹ The latest three months are preliminary.

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

Month	2016	2017	2018	2019	2020	2021	2021 year-to-date
Jan	-2,9	1,1	1,6	0,9	-2,5	-6,0	-6,0
Feb	1,8	-4,0	0,2	0,0	-2,5	-2,8	-4,3
Mar	-2,6	0,0	-2,6	2,1	-6,5	5,2	-1,0
Apr	3,5	-5,2	1,5	4,5	-52,7	101,8	13,7
May	3,6	-1,1	1,7	0,6	-34,5	38,1	17,8
Jun	5,2	-2,4	0,4	-3,9	-14,1	11,9	16,8
Jul	0,2	-1,6	2,6	-1,3	-10,2	-4,8	13,3
Aug	2,3	1,3	1,5	-1,3	-11,7	2,2	11,6
Sep	0,5	-2,2	-0,5	-2,4	-3,0	0,6	10,3
Oct	-3,2	2,0	3,2	-0,6	-5,1	-9,1	7,8
Nov	2,0	1,6	1,1	-3,7	-5,5	-0,1	7,0
Dec	-1,5	2,3	0,5	-7,3	0,8	-0,1	6,4
Total	0,7	-0,7	1,0	-1,1	-12,3	6,4	

Table 3 – Seasonally adjusted volume of manufacturing production

Month	Index (Base: 2015=100)				Month-on-month % change			
	2018	2019	2020	2021	2018	2019	2020	2021
Jan	100,5	101,0	98,3	95,1	-3,0	-3,1	2,1	-0,8
Feb	98,7	98,9	95,7	94,0	-1,8	-2,1	-2,6	-1,2
Mar	98,9	100,4	93,4	97,8	0,2	1,5	-2,4	4,0
Apr	98,0	102,4	49,4	96,5	-0,9	2,0	-47,1	-1,3
May	100,0	100,4	67,0	93,4	2,0	-2,0	35,6	-3,2
Jun	100,8	98,5	82,9	92,8	0,8	-1,9	23,7	-0,6
Jul	101,8	99,4	88,5	85,1	1,0	0,9	6,8	-8,3
Aug	101,7	101,1	90,6	91,4	-0,1	1,7	2,4	7,4
Sep	101,2	98,1	93,6	94,0	-0,5	-3,0	3,3	2,8
Oct	102,5	101,8	96,9	88,9	1,3	3,8	3,5	-5,4
Nov	103,2	99,9	95,0	93,3	0,7	-1,9	-2,0	4,9
Dec	104,2	96,3	95,9	95,4	1,0	-3,6	0,9	2,3

Table 4 – Index of the volume of manufacturing production by division and major group (Base: 2015=100)

Manufacturing division and major group	Weights	Jul-21	Aug-21	Sep-21	¹ Oct-21	¹ Nov-21	¹ Dec-21
Food and beverages	20,18	95,5	118,1	122,1	120,7	126,3	121,3
Meat, fish, fruit, etc.	2,95	97,1	99,7	106,5	108,7	115,9	119,7
Dairy products	1,34	102,2	103,0	109,8	125,0	127,0	110,5
Grain mill products	1,69	100,5	99,6	101,3	101,3	109,1	105,1
Other food products	7,76	122,1	130,4	129,6	115,3	116,3	98,0
Beverages	6,44	60,0	119,8	128,1	136,9	147,6	156,6
Textiles, clothing, leather and footwear	4,38	74,8	80,4	88,8	100,5	105,3	70,0
Textiles	1,10	105,2	105,7	128,9	133,1	132,7	71,6
Other textile products	0,65	71,7	80,0	83,0	99,6	100,9	62,3
Knitted, crocheted articles	0,06	59,2	76,3	69,3	79,2	75,2	48,1
Wearing apparel	2,04	57,3	67,1	72,0	86,8	97,3	71,3
Leather and leather products	0,28	63,7	50,2	62,1	68,0	55,1	46,6
Footwear	0,25	108,6	113,2	98,4	112,4	124,8	104,0
Wood and wood products, paper, publishing and printing	10,77	79,8	92,1	103,5	95,7	104,9	84,3
Sawmilling and planing of wood	0,93	90,4	88,5	83,8	84,5	96,8	70,5
Products of wood	0,87	100,7	107,6	110,0	117,7	116,0	89,2
Paper and paper products	5,39	85,1	99,0	105,5	97,4	109,3	96,8
Publishing	2,24	55,8	71,8	109,4	83,3	77,0	63,2
Printing, recorded media	1,34	77,6	90,6	94,9	102,8	132,4	75,4
Petroleum, chemical products, rubber and plastic products	25,38	72,3	73,9	82,3	84,0	82,4	78,2
Coke, petroleum products and nuclear fuel	12,02	55,6	62,5	58,9	69,4	65,4	71,0
Basic chemicals	3,69	95,8	80,2	106,3	92,3	91,9	91,5
Other chemical products	6,54	82,2	78,2	101,9	94,4	95,5	84,0
Rubber products	0,84	81,9	92,8	88,1	100,4	88,2	48,2
Plastic products	2,29	90,6	104,8	108,2	111,3	117,1	89,0
Glass and non-metallic mineral products	3,42	93,2	97,7	97,7	101,6	104,0	78,7
Glass and glass products	0,51	104,7	107,8	108,3	116,3	123,9	113,8
Non-metallic mineral products	2,91	91,2	95,9	95,9	99,0	100,6	72,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,47	97,4	99,3	102,9	89,3	106,2	83,7
Basic iron and steel products	2,82	104,4	98,9	106,2	102,4	107,5	90,2
Non-ferrous metal products	3,26	87,0	93,6	92,5	74,3	93,4	91,6
Structural metal products	1,98	85,5	85,6	98,5	79,8	94,1	59,4
Other fabricated metal products	3,35	104,3	103,9	111,1	90,1	123,7	72,9
General purpose machinery	3,46	98,9	107,4	110,1	89,6	102,4	94,8
Special purpose machinery	3,87	103,3	101,5	99,4	96,1	111,1	84,4
Household appliances	0,73	78,4	92,1	94,7	90,8	101,9	81,8
Electrical machinery	2,31	78,3	86,8	84,1	86,1	98,8	75,0
Radio, television and communication apparatus and professional equipment	1,21	68,7	74,6	78,2	91,9	94,5	82,3
Radio, television and communication apparatus	0,13	63,3	84,9	96,5	117,0	117,4	123,1
Professional equipment	1,08	69,4	73,4	76,0	88,8	91,7	77,3
Motor vehicles, parts and accessories and other transport equipment	8,66	96,6	100,6	99,7	98,3	114,4	58,4
Motor vehicles	2,65	55,5	74,5	86,4	88,4	107,3	46,6
Bodies for motor vehicles, trailers and semi-trailers	0,71	123,3	121,3	137,7	120,9	137,7	78,0
Parts and accessories	3,93	128,3	124,2	108,1	108,0	122,8	57,7
Other transport equipment	1,37	71,1	72,7	81,5	78,1	91,9	73,2
Furniture and other manufacturing	4,21	103,1	105,3	102,9	99,8	111,3	98,4
Furniture	0,86	73,1	86,9	98,2	91,9	104,6	87,3
Other manufacturing groups	3,35	110,8	110,1	104,1	101,9	113,0	101,3
Total	100	87,0	94,8	99,8	97,1	104,6	87,4

¹ The latest three months are preliminary.

Table 5 – Year-on-year percentage change in the volume of manufacturing production by division and major group (Base: 2015=100)

Manufacturing division and major group	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Food and beverages	-2,9	9,0	2,3	-4,8	1,9	-0,8
Meat, fish, fruit, etc.	-6,8	-4,2	2,4	-5,7	6,9	5,6
Dairy products	-5,1	-11,0	-11,1	1,5	0,7	-16,2
Grain mill products	0,6	-0,1	-1,2	0,9	7,0	9,3
Other food products	-3,1	1,0	1,4	-13,2	-13,1	-11,7
Beverages	-0,2	39,5	7,1	3,4	18,8	8,1
Textiles, clothing, leather and footwear	-8,6	-6,0	2,7	4,8	12,3	2,9
Textiles	-8,0	-4,2	4,5	24,6	13,8	-4,8
Other textile products	10,0	23,3	25,0	3,8	10,4	4,2
Knitted, crocheted articles	0,9	-1,2	-15,5	6,5	7,4	-16,5
Wearing apparel	-20,6	-16,4	-1,5	-4,5	15,6	11,1
Leather and leather products	23,4	-10,8	-5,6	-11,2	-18,7	-27,4
Footwear	8,4	5,3	-10,6	-3,4	10,2	9,5
Wood and wood products, paper, publishing and printing	1,3	11,9	12,6	4,5	6,8	5,0
Sawmilling and planing of wood	0,3	-1,0	-13,7	-16,3	5,2	19,3
Products of wood	3,8	6,4	2,8	-4,8	2,8	8,0
Paper and paper products	-3,1	13,1	4,6	9,3	14,2	12,0
Publishing	-3,1	4,5	41,9	9,9	-12,0	-12,5
Printing, recorded media	32,6	35,6	41,0	2,3	9,7	-8,5
Petroleum, chemical products, rubber and plastic products	-24,0	-21,0	-11,8	-15,6	-13,4	-2,3
Coke, petroleum products and nuclear fuel	-37,1	-27,8	-29,6	-18,7	-12,4	3,6
Basic chemicals	-2,6	-18,8	-2,3	-23,0	-21,9	-8,8
Other chemical products	-19,6	-22,0	5,9	-8,9	-10,0	-8,6
Rubber products	-15,3	-2,7	-13,5	-2,3	-20,6	12,9
Plastic products	-13,0	2,4	1,1	-13,1	-8,9	2,2
Glass and non-metallic mineral products	-0,1	9,5	3,0	-6,4	0,3	6,4
Glass and glass products	-3,8	-11,2	-9,0	-11,3	-8,7	9,6
Non-metallic mineral products	0,7	14,7	5,7	-5,4	2,5	5,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	0,7	8,9	4,4	-14,7	5,9	-1,4
Basic iron and steel products	36,8	21,9	26,4	4,9	28,1	8,7
Non-ferrous metal products	-14,9	-4,5	-7,2	-29,2	1,9	-1,6
Structural metal products	1,7	5,3	16,0	-13,9	-3,3	-7,8
Other fabricated metal products	-6,2	0,7	0,6	-27,2	10,1	-6,9
General purpose machinery	-10,0	10,2	0,2	-11,4	-5,3	8,3
Special purpose machinery	10,4	20,0	1,1	-5,9	10,5	-11,0
Household appliances	7,5	21,2	17,9	-15,1	-13,4	7,3
Electrical machinery	5,4	13,6	-3,4	-0,8	15,2	23,4
Radio, television and communication apparatus and professional equipment	-17,8	-9,8	-13,3	3,8	0,4	-4,1
Radio, television and communication apparatus	-21,2	6,4	-0,9	11,0	3,9	19,5
Professional equipment	-17,4	-11,6	-14,9	2,8	-0,1	-7,6
Motor vehicles, parts and accessories and other transport equipment	9,2	17,1	4,9	-13,8	0,1	-8,0
Motor vehicles	-31,0	-3,0	-0,1	-20,2	-1,9	13,4
Bodies for motor vehicles, trailers and semi-trailers	-5,2	-1,2	3,9	-9,8	-9,5	-1,5
Parts and accessories	34,9	33,5	6,2	-14,4	-1,1	-22,2
Other transport equipment	12,3	13,6	12,7	4,8	21,7	7,6
Furniture and other manufacturing	49,4	23,3	7,6	-12,8	-1,7	6,3
Furniture	30,5	6,2	14,9	-4,7	4,8	31,7
Other manufacturing groups	53,0	27,4	6,0	-14,5	-3,1	1,9
Total	-4,8	2,2	0,6	-9,1	-0,1	-0,1

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

Manufacturing division and major group	Weights	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Food and beverages	20,18	-0,6	2,1	0,6	-1,2	0,5	-0,2
Meat, fish, fruit, etc.	2,95	-0,2	-0,1	0,1	-0,2	0,2	0,2
Dairy products	1,34	-0,1	-0,2	-0,2	0,0	0,0	-0,3
Grain mill products	1,69	0,0	0,0	0,0	0,0	0,1	0,2
Other food products	7,76	-0,3	0,1	0,1	-1,3	-1,3	-1,2
Beverages	6,44	0,0	2,4	0,6	0,3	1,4	0,9
Textiles, clothing, leather and footwear	4,38	-0,3	-0,2	0,1	0,2	0,5	0,1
Textiles	1,10	-0,1	-0,1	0,1	0,3	0,2	0,0
Other textile products	0,65	0,0	0,1	0,1	0,0	0,1	0,0
Knitted, crocheted articles	0,06	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	2,04	-0,3	-0,3	0,0	-0,1	0,3	0,2
Leather and leather products	0,28	0,0	0,0	0,0	0,0	0,0	-0,1
Footwear	0,25	0,0	0,0	0,0	0,0	0,0	0,0
Wood and wood products, paper, publishing and printing	10,77	0,1	1,1	1,3	0,4	0,7	0,5
Sawmilling and planing of wood	0,93	0,0	0,0	-0,1	-0,1	0,0	0,1
Products of wood	0,87	0,0	0,1	0,0	0,0	0,0	0,1
Paper and paper products	5,39	-0,2	0,7	0,2	0,4	0,7	0,6
Publishing	2,24	0,0	0,1	0,7	0,2	-0,2	-0,2
Printing, recorded media	1,34	0,3	0,3	0,4	0,0	0,1	-0,1
Petroleum, chemical products, rubber and plastic products	25,38	-6,3	-5,4	-2,8	-3,7	-3,1	-0,5
Coke, petroleum products and nuclear fuel	12,02	-4,3	-3,1	-3,0	-1,8	-1,1	0,3
Basic chemicals	3,69	-0,1	-0,7	-0,1	-1,0	-0,9	-0,4
Other chemical products	6,54	-1,4	-1,6	0,4	-0,6	-0,7	-0,6
Rubber products	0,84	-0,1	0,0	-0,1	0,0	-0,2	0,1
Plastic products	2,29	-0,3	0,1	0,0	-0,4	-0,3	0,0
Glass and non-metallic mineral products	3,42	0,0	0,3	0,1	-0,2	0,0	0,2
Glass and glass products	0,51	0,0	-0,1	-0,1	-0,1	-0,1	0,1
Non-metallic mineral products	2,91	0,0	0,4	0,2	-0,2	0,1	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,47	0,1	1,7	0,8	-2,8	1,1	-0,3
Basic iron and steel products	2,82	0,9	0,5	0,6	0,1	0,6	0,2
Non-ferrous metal products	3,26	-0,5	-0,2	-0,2	-0,9	0,1	-0,1
Structural metal products	1,98	0,0	0,1	0,3	-0,2	-0,1	-0,1
Other fabricated metal products	3,35	-0,3	0,0	0,0	-1,1	0,4	-0,2
General purpose machinery	3,46	-0,4	0,4	0,0	-0,4	-0,2	0,3
Special purpose machinery	3,87	0,4	0,7	0,0	-0,2	0,4	-0,5
Household appliances	0,73	0,0	0,1	0,1	-0,1	-0,1	0,0
Electrical machinery	2,31	0,1	0,3	-0,1	0,0	0,3	0,4
Radio, television and communication apparatus and professional equipment	1,21	-0,2	-0,1	-0,1	0,0	0,0	0,0
Radio, television and communication apparatus	0,13	0,0	0,0	0,0	0,0	0,0	0,0
Professional equipment	1,08	-0,2	-0,1	-0,1	0,0	0,0	-0,1
Motor vehicles, parts and accessories and other transport equipment	8,66	0,8	1,4	0,4	-1,3	0,0	-0,5
Motor vehicles	2,65	-0,7	-0,1	0,0	-0,6	-0,1	0,2
Bodies for motor vehicles, trailers and semi-trailers	0,71	-0,1	0,0	0,0	-0,1	-0,1	0,0
Parts and accessories	3,93	1,4	1,3	0,2	-0,7	-0,1	-0,7
Other transport equipment	1,37	0,1	0,1	0,1	0,0	0,2	0,1
Furniture and other manufacturing	4,21	1,6	0,9	0,3	-0,6	-0,1	0,3
Furniture	0,86	0,2	0,0	0,1	0,0	0,0	0,2
Other manufacturing groups	3,35	1,4	0,9	0,2	-0,5	-0,1	0,1
Total	100	-4,8	2,2	0,6	-9,1	-0,1	-0,1

**Table 7 – Seasonally adjusted index of the volume of manufacturing production by division and major group
(Base: 2015=100)**

Manufacturing division and major group	Weights	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Month-on-month % change
Food and beverages	20,18	113,7	114,2	110,9	111,0	112,0	0,9
Meat, fish, fruit, etc.	2,95	101,9	105,3	105,5	106,9	110,1	3,0
Dairy products	1,34	103,2	104,6	112,3	114,8	101,0	-12,0
Grain mill products	1,69	97,8	98,3	99,0	99,9	103,3	3,4
Other food products	7,76	116,2	115,5	105,1	108,0	108,5	0,5
Beverages	6,44	122,3	122,9	123,2	118,7	121,8	2,6
Textiles, clothing, leather and footwear	4,38	75,3	82,7	83,7	87,2	84,7	-2,9
Textiles	1,10	107,0	116,9	115,5	116,7	107,9	-7,5
Other textile products	0,65	79,8	81,8	82,3	83,4	79,4	-4,8
Knitted, crocheted articles	0,06	67,0	63,2	71,8	68,6	66,6	-2,9
Wearing apparel	2,04	57,2	66,6	69,7	76,1	76,9	1,1
Leather and leather products	0,28	52,1	60,1	56,6	52,3	52,1	-0,4
Footwear	0,25	100,7	96,2	95,6	102,0	101,0	-1,0
Wood and wood products, paper, publishing and printing	10,77	88,8	91,2	87,4	90,7	89,6	-1,2
Sawmilling and planing of wood	0,93	84,5	82,4	76,5	90,2	89,8	-0,4
Products of wood	0,87	100,6	101,6	100,7	102,0	111,8	9,6
Paper and paper products	5,39	97,3	92,7	95,5	99,9	98,3	-1,6
Publishing	2,24	66,2	88,8	68,7	62,3	63,3	1,6
Printing, recorded media	1,34	88,0	88,6	85,1	93,8	84,3	-10,1
Petroleum, chemical products, rubber and plastic products	25,38	72,4	79,9	79,3	75,9	82,2	8,3
Coke, petroleum products and nuclear fuel	12,02	62,5	58,9	69,4	65,4	71,0	8,6
Basic chemicals	3,69	77,4	101,3	82,8	81,1	96,5	19,0
Other chemical products	6,54	74,9	97,5	88,1	84,4	86,4	2,4
Rubber products	0,84	90,5	84,2	91,0	83,1	87,8	5,7
Plastic products	2,29	102,2	103,7	96,1	95,4	103,5	8,5
Glass and non-metallic mineral products	3,42	92,1	91,1	89,4	91,8	95,9	4,5
Glass and glass products	0,51	100,7	104,1	102,3	105,7	118,8	12,4
Non-metallic mineral products	2,91	90,6	88,9	87,2	89,4	91,9	2,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,47	97,6	97,7	83,1	99,2	97,4	-1,8
Basic iron and steel products	2,82	105,9	106,1	95,2	107,1	105,1	-1,9
Non-ferrous metal products	3,26	93,2	91,1	69,5	93,0	95,8	3,0
Structural metal products	1,98	81,7	89,3	74,4	80,0	81,0	1,3
Other fabricated metal products	3,35	99,4	103,8	79,7	108,3	100,7	-7,0
General purpose machinery	3,46	100,5	98,9	87,4	93,5	104,4	11,7
Special purpose machinery	3,87	100,3	95,7	89,1	107,2	92,5	-13,7
Household appliances	0,73	92,8	95,2	85,3	91,0	97,8	7,5
Electrical machinery	2,31	80,3	78,4	77,0	87,7	101,3	15,5
Radio, television and communication apparatus and professional equipment	1,21	75,7	74,5	82,2	80,8	80,1	-0,9
Radio, television and communication apparatus	0,13	84,4	88,8	98,2	93,7	109,8	17,2
Professional equipment	1,08	74,6	72,8	80,3	79,2	76,5	-3,4
Motor vehicles, parts and accessories and other transport equipment	8,66	93,4	95,9	89,1	100,7	97,9	-2,8
Motor vehicles	2,65	63,9	79,1	72,4	92,4	97,5	5,5
Bodies for motor vehicles, trailers and semi-trailers	0,71	116,3	122,8	112,5	117,5	112,1	-4,6
Parts and accessories	3,93	116,8	110,7	101,7	109,5	104,2	-4,8
Other transport equipment	1,37	71,3	71,8	73,0	82,9	73,3	-11,6
Furniture and other manufacturing	4,21	99,7	96,8	84,8	91,8	107,3	16,9
Furniture	0,86	78,3	90,9	73,9	78,0	102,8	31,8
Other manufacturing groups	3,35	105,2	98,3	87,7	95,4	108,5	13,7
Total	100	91,4	94,0	88,9	93,3	95,4	2,3

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

Month	2015	2016	2017	2018	2019	2020	2021 ¹
Jan	135 301	139 225	149 636	156 666	172 214	171 007	171 152
Feb	150 646	163 356	165 487	176 719	187 842	192 539	198 975
Mar	169 920	172 593	185 940	188 124	204 507	193 836	229 933
Apr	149 135	163 319	160 384	167 557	193 058	94 494	207 693
May	160 649	176 020	182 432	195 219	203 372	140 157	213 056
Jun	165 821	180 107	186 151	195 254	202 998	170 119	219 285
Jul	166 355	173 886	177 739	197 011	206 806	183 456	190 014
Aug	164 144	180 189	189 251	204 516	215 850	189 101	210 625
Sep	174 985	187 502	191 607	208 143	208 597	204 603	222 299
Oct	181 669	186 919	200 251	224 904	226 883	224 572	220 093
Nov	182 525	199 033	217 252	229 912	224 760	228 294	248 633
Dec	157 693	165 055	175 645	184 356	178 414	188 434	208 307
Total	1 958 843	2 087 204	2 181 775	2 328 381	2 425 301	2 180 612	2 540 065

¹ The latest three months are preliminary.

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

Month	2016	2017	2018	2019	2020	2021	2021 year-to-date
Jan	2,9	7,5	4,7	9,9	-0,7	0,1	0,1
Feb	8,4	1,3	6,8	6,3	2,5	3,3	1,8
Mar	1,6	7,7	1,2	8,7	-5,2	18,6	7,7
Apr	9,5	-1,8	4,5	15,2	-51,1	119,8	23,9
May	9,6	3,6	7,0	4,2	-31,1	52,0	28,9
Jun	8,6	3,4	4,9	4,0	-16,2	28,9	28,9
Jul	4,5	2,2	10,8	5,0	-11,3	3,6	24,8
Aug	9,8	5,0	8,1	5,5	-12,4	11,4	22,9
Sep	7,2	2,2	8,6	0,2	-1,9	8,6	21,0
Oct	2,9	7,1	12,3	0,9	-1,0	-2,0	18,1
Nov	9,0	9,2	5,8	-2,2	1,6	8,9	17,0
Dec	4,7	6,4	5,0	-3,2	5,6	10,5	16,5
Total	6,6	4,5	6,7	4,2	-10,1	16,5	

Table 10 – Seasonally adjusted manufacturing sales at current prices

Month	R million				Month-on-month % change			
	2018	2019	2020	2021	2018	2019	2020	2021
Jan	184 656	201 671	198 711	203 685	-3,4	-0,3	3,1	-0,1
Feb	187 628	199 086	205 139	210 088	1,6	-1,3	3,2	3,1
Mar	187 358	201 890	190 554	223 667	-0,1	1,4	-7,1	6,5
Apr	179 170	206 624	101 883	218 799	-4,4	2,3	-46,5	-2,2
May	193 081	200 253	140 936	216 430	7,8	-3,1	38,3	-1,1
Jun	191 674	203 997	167 431	216 010	-0,7	1,9	18,8	-0,2
Jul	197 276	204 872	180 577	188 995	2,9	0,4	7,9	-12,5
Aug	196 372	209 575	187 194	205 941	-0,5	2,3	3,7	9,0
Sep	203 504	202 009	195 286	212 548	3,6	-3,6	4,3	3,2
Oct	202 100	203 736	201 308	199 158	-0,7	0,9	3,1	-6,3
Nov	200 898	197 463	202 542	216 583	-0,6	-3,1	0,6	8,7
Dec	202 260	192 761	203 848	222 684	0,7	-2,4	0,6	2,8

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

Manufacturing division and major group	Jul-21	Aug-21	Sep-21	¹ Oct-21	¹ Nov-21	¹ Dec-21
Food and beverages	45 766	55 043	56 481	58 451	62 889	62 452
Meat, fish, fruit, etc.	14 044	14 951	16 135	16 462	17 462	18 735
Dairy products	4 440	4 362	4 532	5 024	4 977	4 675
Grain mill products	8 593	8 583	8 703	9 266	10 165	9 162
Other food products	11 639	12 571	11 118	10 844	11 003	8 973
Beverages	7 050	14 575	15 994	16 855	19 282	20 907
Textiles, clothing, leather and footwear	4 486	4 888	5 199	5 985	6 368	4 517
Textiles	687	732	799	923	895	555
Other textile products	1 293	1 406	1 525	1 803	1 864	1 169
Knitted, crocheted articles	173	215	193	210	215	135
Wearing apparel	1 186	1 468	1 608	1 883	2 198	1 650
Leather and leather products	505	398	493	502	437	370
Footwear	642	669	581	664	759	637
Wood and wood products, paper, publishing and printing	12 298	14 213	16 236	15 190	17 315	13 742
Sawmilling and planing of wood	832	916	868	876	1 007	791
Products of wood	1 930	2 069	2 113	2 195	2 268	1 496
Paper and paper products	6 180	7 207	8 336	7 619	8 894	7 974
Publishing	982	1 285	2 081	1 524	1 440	1 166
Printing, recorded media	2 374	2 737	2 838	2 977	3 707	2 316
Petroleum, chemical products, rubber and plastic products	34 788	36 317	41 816	42 506	43 555	40 251
Coke, petroleum products and nuclear fuel	6 889	8 249	8 077	9 085	9 703	9 922
Basic chemicals	9 072	8 310	10 842	11 047	10 809	10 794
Other chemical products	11 155	11 087	13 844	12 868	12 953	11 875
Rubber products	1 433	1 532	1 593	1 756	1 658	1 365
Plastic products	6 238	7 138	7 460	7 751	8 432	6 296
Glass and non-metallic mineral products	6 196	6 516	6 716	6 999	7 211	5 247
Glass and glass products	1 137	1 257	1 256	1 372	1 465	1 376
Non-metallic mineral products	5 060	5 258	5 460	5 627	5 745	3 871
Basic iron and steel, non-ferrous metal products, metal products and machinery	48 384	54 101	56 342	48 094	62 644	46 221
Basic iron and steel products	11 585	12 925	16 013	10 349	18 600	11 164
Non-ferrous metal products	15 336	19 128	16 437	17 718	18 823	16 159
Structural metal products	3 387	3 456	4 024	3 371	3 955	2 535
Other fabricated metal products	7 093	7 375	7 816	6 335	8 926	5 282
General purpose machinery	4 011	4 309	4 901	3 971	4 492	4 207
Special purpose machinery	5 950	5 749	5 971	5 172	6 499	5 739
Household appliances	1 022	1 160	1 181	1 178	1 349	1 135
Electrical machinery	5 089	5 380	5 614	5 493	6 602	5 133
Radio, television and communication apparatus and professional equipment	1 651	1 996	2 202	2 466	2 783	2 561
Radio, television and communication apparatus	757	1 048	1 190	1 344	1 603	1 530
Professional equipment	895	947	1 012	1 122	1 179	1 031
Motor vehicles, parts and accessories and other transport equipment	23 145	23 702	22 982	25 835	29 713	19 391
Motor vehicles	11 306	11 997	11 361	15 046	16 665	10 994
Bodies for motor vehicles, trailers and semi-trailers	1 211	1 271	1 310	1 260	1 381	880
Parts and accessories	8 127	7 860	7 397	6 719	8 313	4 810
Other transport equipment	2 501	2 574	2 915	2 810	3 354	2 707
Furniture and other manufacturing	8 210	8 469	8 710	9 074	9 553	8 791
Furniture	1 338	1 535	1 744	1 776	2 036	1 715
Other manufacturing groups	6 872	6 934	6 966	7 298	7 517	7 076
Total	190 014	210 625	222 299	220 093	248 633	208 307

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-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Food and beverages	8,0	15,1	10,0	3,6	13,1	6,8
Meat, fish, fruit, etc.	0,6	6,2	11,4	6,2	14,3	17,3
Dairy products	2,5	-1,6	-2,8	4,7	1,0	-6,3
Grain mill products	13,1	13,2	13,2	9,4	20,5	12,3
Other food products	19,7	15,7	11,1	-12,3	-3,2	-21,6
Beverages	4,4	34,3	10,3	10,2	23,5	16,7
Textiles, clothing, leather and footwear	3,4	-0,3	3,3	7,9	10,3	8,1
Textiles	-10,2	-3,0	-0,7	16,0	10,8	-3,6
Other textile products	6,9	18,0	16,7	6,2	10,8	9,0
Knitted, crocheted articles	0,0	1,9	-11,9	9,4	15,6	-12,3
Wearing apparel	-2,7	-13,8	3,6	10,9	17,7	20,9
Leather and leather products	19,7	-7,2	-4,1	-0,2	-17,7	-23,7
Footwear	17,2	9,5	-8,5	0,3	8,4	20,6
Wood and wood products, paper, publishing and printing	3,9	8,9	17,2	7,2	11,4	8,5
Sawmilling and planing of wood	-12,8	-11,3	-12,1	-9,9	6,9	29,0
Products of wood	15,9	12,9	16,5	5,4	12,4	3,8
Paper and paper products	-5,5	3,7	7,5	12,1	20,6	17,3
Publishing	2,3	0,2	49,5	13,9	-10,7	-13,0
Printing, recorded media	37,9	40,1	49,3	0,1	3,0	-6,2
Petroleum, chemical products, rubber and plastic products	-2,8	-2,1	10,0	4,7	4,4	15,0
Coke, petroleum products and nuclear fuel	-15,6	-6,3	-0,2	15,0	16,4	29,4
Basic chemicals	18,0	1,6	16,7	13,2	6,9	35,3
Other chemical products	-12,0	-13,2	9,5	-6,4	-8,5	-8,1
Rubber products	-8,4	2,5	-5,4	-0,3	-1,7	18,2
Plastic products	9,7	22,4	18,4	4,6	13,5	19,4
Glass and non-metallic mineral products	6,4	11,1	6,5	-1,1	3,2	3,8
Glass and glass products	-2,4	5,0	-5,0	-16,0	-8,2	11,5
Non-metallic mineral products	8,6	12,6	9,6	3,4	6,5	1,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	16,2	34,2	23,7	1,2	28,5	18,5
Basic iron and steel products	32,6	42,3	78,4	15,3	86,2	44,6
Non-ferrous metal products	19,1	58,0	4,6	8,1	11,8	15,6
Structural metal products	14,1	13,8	29,9	-0,6	11,2	3,0
Other fabricated metal products	5,1	15,6	14,8	-17,1	27,1	2,3
General purpose machinery	-8,7	6,4	9,3	-4,0	5,9	26,7
Special purpose machinery	19,2	22,1	8,8	-9,4	12,3	7,1
Household appliances	10,5	22,9	18,3	-8,0	1,6	14,3
Electrical machinery	9,0	14,4	8,4	-0,2	14,3	19,3
Radio, television and communication apparatus and professional equipment	-10,8	5,5	4,5	-0,5	12,4	5,0
Radio, television and communication apparatus	-10,1	17,5	18,4	-3,8	21,5	11,4
Professional equipment	-11,4	-5,4	-8,3	3,9	1,9	-3,2
Motor vehicles, parts and accessories and other transport equipment	-23,1	-10,8	-25,1	-30,2	-20,0	-1,9
Motor vehicles	-43,3	-27,8	-41,4	-35,3	-27,4	-0,1
Bodies for motor vehicles, trailers and semi-trailers	10,1	15,7	14,2	0,7	-2,7	1,5
Parts and accessories	16,6	17,0	-4,9	-32,9	-19,1	-14,5
Other transport equipment	20,4	21,8	21,5	13,2	33,5	19,4
Furniture and other manufacturing	62,6	22,2	33,6	9,9	12,9	16,0
Furniture	40,1	27,9	20,5	3,2	15,9	38,4
Other manufacturing groups	67,9	20,9	37,4	11,6	12,1	11,6
Total	3,6	11,4	8,6	-2,0	8,9	10,5

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

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

Manufacturing division and major group	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Month-on-month % change
Food and beverages	54 395	54 971	53 509	55 047	54 155	-1,6
Meat, fish, fruit, etc.	14 765	15 651	15 536	15 765	16 789	6,5
Dairy products	4 366	4 426	4 538	4 602	4 408	-4,2
Grain mill products	8 474	8 622	8 922	9 145	8 986	-1,7
Other food products	11 588	11 228	9 429	10 229	9 286	-9,2
Beverages	15 201	15 044	15 085	15 305	14 686	-4,0
Textiles, clothing, leather and footwear	4 712	5 019	5 059	5 123	5 183	1,2
Textiles	709	766	776	751	813	8,3
Other textile products	1 436	1 492	1 487	1 526	1 471	-3,6
Knitted, crocheted articles	206	181	184	190	185	-2,6
Wearing apparel	1 334	1 532	1 614	1 695	1 753	3,4
Leather and leather products	419	465	445	405	398	-1,7
Footwear	608	583	554	557	562	0,9
Wood and wood products, paper, publishing and printing	13 468	14 450	13 963	14 706	14 882	1,2
Sawmilling and planing of wood	837	833	812	944	1 140	20,8
Products of wood	1 923	1 931	1 895	1 935	1 906	-1,5
Paper and paper products	6 913	7 193	7 492	8 148	8 073	-0,9
Publishing	1 171	1 733	1 269	1 135	1 170	3,1
Printing, recorded media	2 623	2 760	2 494	2 544	2 592	1,9
Petroleum, chemical products, rubber and plastic products	35 798	39 915	38 853	38 451	41 886	8,9
Coke, petroleum products and nuclear fuel	7 951	8 400	8 908	9 269	9 758	5,3
Basic chemicals	8 418	9 998	9 907	9 298	11 441	23,0
Other chemical products	10 899	13 123	11 839	11 483	11 760	2,4
Rubber products	1 532	1 501	1 598	1 505	1 764	17,2
Plastic products	6 998	6 893	6 603	6 895	7 163	3,9
Glass and non-metallic mineral products	6 067	6 363	6 014	6 108	6 498	6,4
Glass and glass products	1 192	1 219	1 082	1 156	1 433	24,0
Non-metallic mineral products	4 875	5 144	4 932	4 953	5 065	2,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	53 196	54 330	45 159	57 425	53 042	-7,6
Basic iron and steel products	13 003	15 717	9 879	16 817	14 151	-15,9
Non-ferrous metal products	18 802	16 317	16 739	18 079	16 698	-7,6
Structural metal products	3 306	3 628	3 131	3 348	3 356	0,2
Other fabricated metal products	6 978	7 324	5 625	7 748	7 082	-8,6
General purpose machinery	4 078	4 597	3 649	4 169	4 641	11,3
Special purpose machinery	5 805	5 562	5 033	6 082	5 815	-4,4
Household appliances	1 224	1 185	1 103	1 181	1 299	10,0
Electrical machinery	5 183	5 250	5 030	5 704	6 087	6,7
Radio, television and communication apparatus and professional equipment	2 002	2 106	2 211	2 268	2 257	-0,5
Radio, television and communication apparatus	1 037	1 132	1 175	1 226	1 247	1,7
Professional equipment	965	974	1 036	1 042	1 010	-3,1
Motor vehicles, parts and accessories and other transport equipment	22 929	21 810	21 164	23 484	29 729	26,6
Motor vehicles	11 419	10 525	10 925	12 138	18 289	50,7
Bodies for motor vehicles, trailers and semi-trailers	1 211	1 209	1 159	1 139	1 172	2,9
Parts and accessories	7 741	7 493	6 376	7 173	7 577	5,6
Other transport equipment	2 558	2 583	2 704	3 034	2 691	-11,3
Furniture and other manufacturing	8 191	8 335	8 196	8 266	8 964	8,4
Furniture	1 506	1 638	1 407	1 519	1 869	23,0
Other manufacturing groups	6 685	6 697	6 789	6 747	7 096	5,2
Total	205 941	212 548	199 158	216 583	222 684	2,8

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 2015. 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 64,1% for December 2021. The improved collection rate for November 2021 was 66,4%.
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 3 050 enterprises from a population of 29 137 manufacturing enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Fax and telephone reminders are used to follow up on non-respondents.
 - 2 A stratified random sample was drawn at the Standard Industrial Classification (SIC) three-digit level in April 2021 from Stats SA's business sampling frame (BSF). Strata were formed using a combination of the SIC and the measure of size classes for enterprises (see point 3 below).

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

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

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

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

Measure of size classes (Rand)

Enterprise size	Size group	Lower limits	Upper limits
Very small	4	1 717 025	17 500 000
Small	3	17 500 001	45 500 000
Medium	2	45 500 001	178 500 000
Large	1	178 500 001	

- Sample weighting**
- 4 For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form major group and division estimates. These procedures are consistent with international best practice.

- Index of the volume of manufacturing production**
- 5 The index of the volume of manufacturing production, also known as a production index, is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The current base period is 2015. 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 2021	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			
	2015 (based on value added for 2013 – 2015)	2016 (based on value added for 2014 – 2016)	2017 (based on value added for 2015 – 2017)	2018 – 2021 (based on value added for 2016 – 2018)
Food and beverages	18,90	19,24	19,76	20,18
Meat, fish, fruit, etc.	2,50	2,58	2,74	2,95
Dairy products	1,21	1,27	1,32	1,34
Grain mill products	1,98	1,95	1,81	1,69
Other food products	7,04	7,29	7,53	7,76
Beverages	6,17	6,15	6,36	6,44
Textiles, clothing, leather and footwear	4,63	4,55	4,44	4,38
Textiles	1,17	1,15	1,11	1,10
Other textile products	0,68	0,67	0,67	0,65
Knitted, crocheted articles	0,06	0,06	0,06	0,06
Wearing apparel	2,16	2,13	2,07	2,04
Leather and leather products	0,30	0,29	0,28	0,28
Footwear	0,26	0,25	0,25	0,25
Wood and wood products, paper, publishing and printing	10,83	10,88	10,76	10,77
Sawmilling and planing of wood	0,89	0,93	0,93	0,93
Products of wood	0,78	0,83	0,86	0,87
Paper and paper products	5,24	5,38	5,33	5,39
Publishing	2,40	2,31	2,28	2,24
Printing, recorded media	1,52	1,43	1,36	1,34
Petroleum, chemical products, rubber and plastic products	24,17	24,66	25,25	25,38
Coke, petroleum products and nuclear fuel	10,48	10,98	11,72	12,02
Basic chemicals	4,18	4,10	3,82	3,69
Other chemical products	6,36	6,28	6,42	6,54
Rubber products	0,98	0,96	0,91	0,84
Plastic products	2,17	2,34	2,38	2,29
Glass and non-metallic mineral products	4,27	3,98	3,66	3,42
Glass and glass products	0,67	0,61	0,57	0,51
Non-metallic mineral products	3,60	3,37	3,09	2,91
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,17	19,82	19,55	19,47
Basic iron and steel products	3,06	2,86	2,77	2,82
Non-ferrous metal products (including precious metals)	3,94	3,74	3,48	3,26
Structural metal products	1,90	1,92	1,97	1,98
Other fabricated metal products	3,37	3,33	3,32	3,35
General purpose machinery	3,22	3,35	3,36	3,46
Special purpose machinery	4,01	3,93	3,93	3,87
Household appliances	0,67	0,69	0,71	0,73
Electrical machinery	2,65	2,55	2,42	2,31
Radio, television and communication apparatus and professional equipment	1,45	1,46	1,34	1,21
Radio, television and communication apparatus	0,51	0,43	0,29	0,13
Professional equipment	0,94	1,03	1,05	1,08
Motor vehicles, parts and accessories and other transport equipment	8,63	8,63	8,56	8,66
Motor vehicles	2,53	2,51	2,61	2,65
Bodies for motor vehicles, trailers and semi-trailers	0,61	0,66	0,68	0,71
Parts and accessories	4,13	4,10	3,91	3,93
Other transport equipment	1,36	1,36	1,36	1,37
Furniture and other manufacturing	4,29	4,22	4,26	4,21
Furniture	0,87	0,88	0,91	0,86
Other manufacturing groups	3,42	3,34	3,35	3,35
Total	100	100	100	100

Seasonal adjustment	10	Seasonally adjusted estimates of all major groups are generated each month, using the X-12 Seasonal Adjustment Program developed by the US Bureau of the Census, 1968. 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. Therefore 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 Seasonal adjustment Manufacturing June 2017 Note: Owing to the impact of the COVID-19 lockdown, additive outlier and transitory change adjustments were applied to April 2020. Transitory (temporary) change describes a temporary effect on the level of a series after a certain point in time. The methodology will be reviewed as more data points are added to the time series.
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 <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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