

STATISTICAL RELEASE
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Manufacturing: Production and sales
(Preliminary)

March 2019

The results in the next publication (April 2019) will be updated with weights based on national accounts value added data for 2015–2017. Currently, production indices for the manufacturing divisions and total manufacturing are calculated using weights based on national accounts value added data for 2014–2016.

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ENQUIRIES:
Nicolai Claassen
Tel: (012) 310 8007

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Production: results for March 2019

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

	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
Year-on-year % change, unadjusted	3,1	1,1	0,0	0,8	0,5	1,2
Month-on-month % change, seasonally adjusted	1,3	0,2	0,4	-1,6	-2,0	0,8
3-month % change, seasonally adjusted ¹	0,9	0,6	1,1	0,5	-0,8	-2,4

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

Manufacturing production increased by 1,2% in March 2019 compared with March 2018. The largest positive contributions were made by the following divisions:

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

Seasonally adjusted manufacturing production increased by 0,8% in March 2019 compared with February 2019. This followed month-on-month changes of -2,0% in February 2019 and -1,6% in January 2019 – see Table A.

Seasonally adjusted manufacturing production decreased by 2,4% in the first quarter of 2019 compared with the fourth quarter of 2018. Seven of the ten manufacturing divisions reported negative growth rates over this period.

The largest negative contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-3,8% and contributing -0,9 of a percentage point);
- motor vehicles, parts and accessories and other transport equipment (-6,0% and contributing -0,5 of a percentage point); and
- wood and wood products, paper, publishing and printing (-3,6% and contributing -0,4 of a percentage point) – see Table B.

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

Manufacturing division and major group	Weights	Oct – Dec 2018	Jan – Mar 2019	% change between Oct – Dec 2018 and Jan – Mar 2019	Contribution (% points) to the total % change
Food and beverages	25,78	107,6	107,9	0,3	0,1
Meat, fish, fruit, etc.	6,59	104,4	103,7	-0,7	0,0
Dairy products	2,00	106,3	110,6	4,0	0,1
Grain mill products	3,12	98,1	96,9	-1,2	0,0
Other food products	7,74	111,9	111,4	-0,4	0,0
Beverages	6,33	110,4	112,2	1,6	0,1
Textiles, clothing, leather and footwear	3,21	92,0	86,5	-6,0	-0,2
Textiles	0,80	101,2	92,8	-8,3	-0,1
Other textile products	0,41	100,1	91,0	-9,1	0,0
Knitted, crocheted articles	0,09	88,2	90,3	2,4	0,0
Wearing apparel	1,08	81,0	82,2	1,5	0,0
Leather and leather products	0,48	84,4	77,4	-8,3	0,0
Footwear	0,35	107,2	91,4	-14,7	-0,1
Wood and wood products, paper, publishing and printing	11,28	98,5	95,0	-3,6	-0,4
Sawmilling and planing of wood	1,69	100,7	97,3	-3,4	-0,1
Products of wood	2,42	100,9	101,3	0,4	0,0
Paper and paper products	4,09	103,3	97,1	-6,0	-0,2
Publishing	1,45	81,9	78,8	-3,8	0,0
Printing, recorded media	1,63	95,3	92,6	-2,8	0,0
Petroleum, chemical products, rubber and plastic products	23,82	102,9	99,0	-3,8	-0,9
Coke, petroleum products and nuclear fuel	9,18	110,2	101,8	-7,6	-0,7
Basic chemicals	4,41	92,2	93,9	1,8	0,1
Other chemical products	6,15	100,2	96,7	-3,5	-0,2
Rubber products	1,30	93,4	94,3	1,0	0,0
Plastic products	2,78	105,6	104,6	-0,9	0,0
Glass and non-metallic mineral products	3,53	100,1	94,0	-6,1	-0,2
Glass and glass products	0,69	112,6	115,5	2,6	0,0
Non-metallic mineral products	2,84	97,2	89,0	-8,4	-0,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,74	102,8	101,7	-1,1	-0,2
Basic iron and steel products	3,52	117,3	112,7	-3,9	-0,2
Non-ferrous metal products	2,60	108,8	106,1	-2,5	-0,1
Structural metal products	1,92	84,1	84,1	0,0	0,0
Other fabricated metal products	3,84	103,4	105,5	2,0	0,1
General purpose machinery	2,57	92,0	88,7	-3,6	-0,1
Special purpose machinery	3,50	102,7	103,3	0,6	0,0
Household appliances	0,79	95,7	95,7	0,0	0,0
Electrical machinery	1,63	81,2	83,1	2,3	0,0
Radio, television and communication apparatus and professional equipment	1,59	92,7	95,8	3,3	0,0
Radio, television and communication apparatus	0,92	96,7	108,0	11,7	0,1
Professional equipment	0,67	87,4	79,2	-9,4	-0,1
Motor vehicles, parts and accessories and other transport equipment	7,20	108,3	101,8	-6,0	-0,5
Motor vehicles	2,60	105,7	105,9	0,2	0,0
Bodies for motor vehicles, trailers and semi-trailers	0,48	104,6	108,2	3,4	0,0
Parts and accessories	2,89	122,0	105,3	-13,7	-0,5
Other transport equipment	1,23	83,5	82,9	-0,7	0,0
Furniture and other manufacturing	3,22	103,9	99,1	-4,6	-0,2
Furniture	1,08	88,4	87,9	-0,6	0,0
Other manufacturing groups	2,14	111,9	104,9	-6,3	-0,1
Total	100	103,0	100,5	-2,4	-2,4

Figure 1 – Volume of manufacturing production (Base: 2015=100)

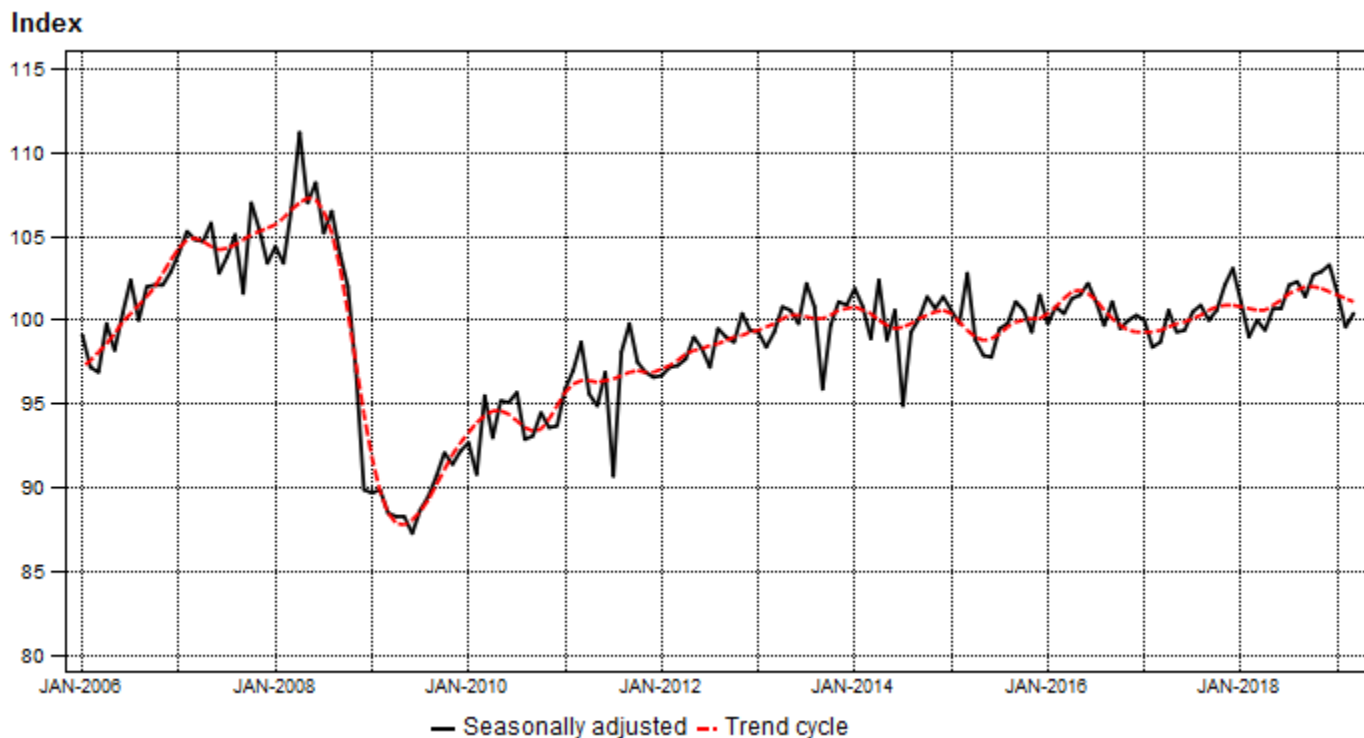
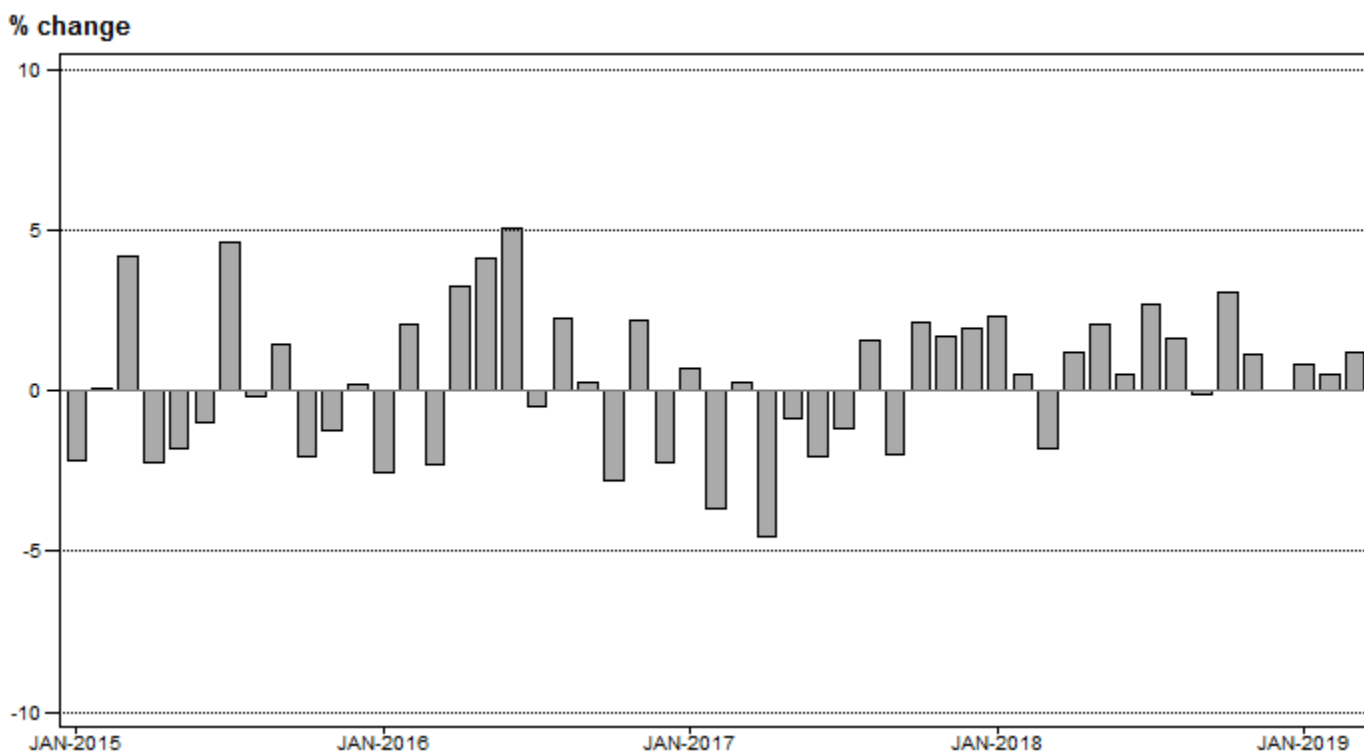


Figure 2 – Volume of manufacturing production (Base: 2015=100): year-on-year percentage change



Sales: results for March 2019**Table C – Key growth rates in manufacturing sales at current prices**

	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
Year-on-year % change, unadjusted	12,0	5,6	5,2	9,6	6,2	8,6
Month-on-month % change, seasonally adjusted	0,6	-0,9	-1,7	1,8	-1,2	1,1
3-month % change, seasonally adjusted ¹	3,6	3,6	1,1	-0,2	-1,3	-0,1

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 March 2019 compared with February 2019. This followed month-on-month changes of -1,2% in February 2019 and 1,8% in January 2019 – see Table C.

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

Manufacturing division	Oct – Dec 2018 (R million)	Jan – Mar 2019 (R million)	% change between Oct – Dec 2018 and Jan – Mar 2019	Contribution (% points) to the total % change
Food and beverages	137 407	142 448	3,7	0,8
Textiles, clothing, leather and footwear	14 316	13 771	-3,8	-0,1
Wood and wood products, paper, publishing and printing	43 883	43 206	-1,5	-0,1
Petroleum, chemical products, rubber and plastic products	125 015	123 169	-1,5	-0,3
Glass and non-metallic mineral products	17 063	16 210	-5,0	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	134 881	133 752	-0,8	-0,2
Electrical machinery	13 340	13 533	1,4	0,0
Radio, television and communication apparatus and professional equipment	6 415	6 375	-0,6	0,0
Motor vehicles, parts and accessories and other transport equipment	85 466	85 428	0,0	0,0
Furniture and other manufacturing	23 511	23 050	-2,0	-0,1
Total	601 298	600 943	-0,1	-0,1

Risenga Maluleke
Statistician-General

Tables

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

Month	2013	2014	2015	2016	2017	2018	2019 ¹
Jan	86,6	88,9	87,0	84,8	85,4	87,4	88,1
Feb	93,4	95,5	95,6	97,6	94,0	94,5	95,0
Mar	98,2	99,6	103,8	101,4	101,7	99,9	101,1
Apr	95,6	94,5	92,4	95,4	91,1	92,2	
May	101,9	99,2	97,4	101,4	100,5	102,6	
Jun	98,6	99,8	98,8	103,8	101,7	102,2	
Jul	104,8	97,5	102,0	101,5	100,3	103,0	
Aug	103,8	101,4	101,2	103,5	105,1	106,8	
Sep	99,1	105,5	107,0	107,3	105,2	105,1	
Oct	111,3	113,2	110,9	107,8	110,1	113,5	
Nov	113,1	111,1	109,7	112,1	114,0	115,3	
Dec	92,4	93,9	94,1	92,0	93,8	93,8	
Total	99,9	100,0	100,0	100,7	100,2	101,4	

¹ The latest three months are preliminary.

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

Month	2014	2015	2016	2017	2018	2019	2019 year-to-date
Jan	2,7	-2,1	-2,5	0,7	2,3	0,8	0,8
Feb	2,2	0,1	2,1	-3,7	0,5	0,5	0,7
Mar	1,4	4,2	-2,3	0,3	-1,8	1,2	0,9
Apr	-1,2	-2,2	3,2	-4,5	1,2		
May	-2,6	-1,8	4,1	-0,9	2,1		
Jun	1,2	-1,0	5,1	-2,0	0,5		
Jul	-7,0	4,6	-0,5	-1,2	2,7		
Aug	-2,3	-0,2	2,3	1,5	1,6		
Sep	6,5	1,4	0,3	-2,0	-0,1		
Oct	1,7	-2,0	-2,8	2,1	3,1		
Nov	-1,8	-1,3	2,2	1,7	1,1		
Dec	1,6	0,2	-2,2	2,0	0,0		
Total	0,1	0,0	0,7	-0,5	1,2		

Table 3 – Seasonally adjusted volume of manufacturing production

Month	Index (Base: 2015=100)				Month-on-month % change			
	2016	2017	2018	2019	2016	2017	2018	2019
Jan	99,8	100,0	101,1	101,6	-1,7	-0,3	-1,9	-1,6
Feb	100,8	98,4	99,0	99,6	1,0	-1,6	-2,1	-2,0
Mar	100,4	98,7	100,0	100,4	-0,4	0,3	1,0	0,8
Apr	101,3	100,6	99,4		0,9	1,9	-0,6	
May	101,5	99,3	100,7		0,2	-1,3	1,3	
Jun	102,2	99,4	100,7		0,7	0,1	0,0	
Jul	101,1	100,5	102,1		-1,1	1,1	1,4	
Aug	99,7	100,9	102,3		-1,4	0,4	0,2	
Sep	101,1	100,0	101,4		1,4	-0,9	-0,9	
Oct	99,5	100,6	102,7		-1,6	0,6	1,3	
Nov	100,0	102,1	102,9		0,5	1,5	0,2	
Dec	100,3	103,1	103,3		0,3	1,0	0,4	

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

Manufacturing division and major group	Weights	Oct-18	Nov-18	Dec-18	¹ Jan-19	¹ Feb-19	¹ Mar-19
Food and beverages	25,78	117,9	121,7	113,5	94,5	95,7	102,7
Meat, fish, fruit, etc.	6,59	109,8	114,6	110,0	92,3	97,4	101,6
Dairy products	2,00	114,1	121,5	110,4	111,9	99,9	114,0
Grain mill products	3,12	103,2	108,7	97,3	90,0	89,2	96,6
Other food products	7,74	126,0	124,7	99,0	88,0	88,8	95,4
Beverages	6,33	124,7	131,8	143,7	101,4	104,4	112,1
Textiles, clothing, leather and footwear	3,21	110,3	111,7	72,9	66,6	84,5	86,5
Textiles	0,80	118,6	118,6	62,5	77,8	99,8	92,5
Other textile products	0,41	118,2	121,2	73,3	68,3	92,8	90,7
Knitted, crocheted articles	0,09	96,7	97,9	56,0	72,8	95,7	91,0
Wearing apparel	1,08	100,0	102,1	72,6	54,9	73,7	82,3
Leather and leather products	0,48	97,5	91,3	77,1	71,2	75,6	76,6
Footwear	0,35	134,5	145,5	96,0	66,8	82,2	93,2
Wood and wood products, paper, publishing and printing	11,28	111,9	113,7	87,1	83,6	91,9	93,2
Sawmilling and planing of wood	1,69	116,2	106,1	74,0	85,7	93,0	103,8
Products of wood	2,42	122,2	118,6	74,6	81,6	100,0	100,9
Paper and paper products	4,09	107,1	113,7	102,6	92,2	95,2	95,0
Publishing	1,45	97,5	100,0	79,3	63,9	74,5	71,8
Printing, recorded media	1,63	117,0	126,7	87,1	80,0	86,0	85,3
Petroleum, chemical products, rubber and plastic products	23,82	109,4	112,5	97,8	96,2	91,2	99,3
Coke, petroleum products and nuclear fuel	9,18	106,6	110,9	113,1	108,5	88,0	108,9
Basic chemicals	4,41	103,5	104,8	87,3	93,4	90,0	79,3
Other chemical products	6,15	110,6	114,6	96,0	85,9	91,5	95,5
Rubber products	1,30	109,1	105,2	50,3	85,8	102,4	104,6
Plastic products	2,78	125,3	128,5	90,0	87,9	97,9	105,2
Glass and non-metallic mineral products	3,53	114,6	111,8	80,0	71,5	89,4	90,2
Glass and glass products	0,69	122,6	130,3	112,0	95,3	105,3	113,5
Non-metallic mineral products	2,84	112,7	107,3	72,2	65,7	85,6	84,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,74	113,8	109,8	84,5	85,0	100,0	111,6
Basic iron and steel products	3,52	125,1	119,2	97,1	103,6	117,9	122,4
Non-ferrous metal products	2,60	115,2	109,3	101,4	103,2	99,5	108,6
Structural metal products	1,92	97,6	100,5	57,6	64,8	84,5	89,8
Other fabricated metal products	3,84	119,0	116,7	73,1	82,2	103,1	113,1
General purpose machinery	2,57	105,8	102,2	78,6	64,1	86,8	97,7
Special purpose machinery	3,50	113,1	104,6	92,8	79,8	96,2	128,5
Household appliances	0,79	103,1	105,7	77,1	95,1	104,9	90,6
Electrical machinery	1,63	92,7	91,8	57,8	63,1	81,3	95,9
Radio, television and communication apparatus and professional equipment	1,59	99,8	108,1	99,1	76,2	89,1	97,7
Radio, television and communication apparatus	0,92	102,9	118,6	103,7	85,7	98,7	107,3
Professional equipment	0,67	95,5	93,6	92,7	63,1	75,7	84,5
Motor vehicles, parts and accessories and other transport equipment	7,20	119,0	122,4	70,1	80,3	106,2	106,7
Motor vehicles	2,60	123,6	118,4	55,3	79,2	111,7	109,3
Bodies for motor vehicles, trailers and semi-trailers	0,48	122,6	125,0	68,0	79,6	106,5	112,6
Parts and accessories	2,89	129,5	140,3	78,7	87,9	112,3	108,9
Other transport equipment	1,23	83,4	87,6	81,8	65,3	80,4	93,5
Furniture and other manufacturing	3,22	119,4	129,8	90,0	86,4	100,4	85,9
Furniture	1,08	112,7	120,2	73,2	59,2	85,4	76,8
Other manufacturing groups	2,14	122,9	134,6	98,5	100,2	108,0	90,5
Total	100	113,5	115,3	93,8	88,1	95,0	101,1

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

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	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
Food and beverages	25,78	1,4	1,2	1,4	1,2	0,8	0,3
Meat, fish, fruit, etc.	6,59	0,5	0,3	0,2	-0,1	0,3	0,0
Dairy products	2,00	0,0	0,2	0,1	0,3	0,1	0,1
Grain mill products	3,12	0,2	0,0	0,0	0,0	0,0	-0,2
Other food products	7,74	0,0	0,2	0,1	0,2	-0,2	-0,1
Beverages	6,33	0,7	0,6	1,0	0,8	0,7	0,4
Textiles, clothing, leather and footwear	3,21	0,0	0,0	-0,1	-0,1	-0,2	-0,2
Textiles	0,80	0,0	0,0	0,0	0,0	0,0	-0,1
Other textile products	0,41	0,0	0,0	0,0	0,0	0,0	-0,1
Knitted, crocheted articles	0,09	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	1,08	0,0	-0,1	-0,1	0,0	-0,1	0,0
Leather and leather products	0,48	0,0	0,0	0,0	-0,1	0,0	0,0
Footwear	0,35	0,1	0,1	0,1	0,0	0,0	0,0
Wood and wood products, paper, publishing and printing	11,28	0,2	-0,1	-0,2	0,0	-0,2	-0,3
Sawmilling and planing of wood	1,69	-0,2	-0,1	-0,2	-0,2	-0,2	-0,2
Products of wood	2,42	0,1	-0,1	-0,1	0,1	0,0	-0,2
Paper and paper products	4,09	0,4	0,2	0,1	0,1	0,0	0,2
Publishing	1,45	0,0	-0,2	0,0	-0,1	-0,1	0,0
Printing, recorded media	1,63	0,1	0,1	0,0	0,1	0,0	-0,1
Petroleum, chemical products, rubber and plastic products	23,82	-0,3	0,1	-0,7	0,3	0,6	1,5
Coke, petroleum products and nuclear fuel	9,18	-0,1	0,1	0,0	0,4	0,5	2,5
Basic chemicals	4,41	-0,5	-0,5	-0,5	-0,2	0,0	-0,9
Other chemical products	6,15	0,2	0,3	-0,1	0,1	0,1	-0,2
Rubber products	1,30	-0,1	0,0	-0,1	0,0	0,0	0,0
Plastic products	2,78	0,2	0,1	0,1	0,0	-0,1	0,2
Glass and non-metallic mineral products	3,53	0,1	-0,1	0,2	-0,1	-0,1	-0,2
Glass and glass products	0,69	0,0	0,1	0,1	0,0	0,1	0,1
Non-metallic mineral products	2,84	0,1	-0,2	0,1	-0,1	-0,2	-0,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,74	0,6	-0,4	-0,5	-0,3	0,0	0,7
Basic iron and steel products	3,52	0,0	0,0	-0,1	-0,7	0,3	0,1
Non-ferrous metal products	2,60	0,1	0,0	0,1	0,2	-0,1	0,0
Structural metal products	1,92	0,1	-0,3	-0,1	0,2	-0,1	0,0
Other fabricated metal products	3,84	0,1	0,0	-0,3	-0,2	0,1	0,2
General purpose machinery	2,57	-0,1	-0,2	-0,3	-0,2	-0,2	-0,1
Special purpose machinery	3,50	0,2	0,0	0,2	0,3	-0,1	0,5
Household appliances	0,79	0,0	0,0	0,0	0,1	0,1	-0,1
Electrical machinery	1,63	-0,1	-0,1	-0,2	-0,1	-0,1	-0,1
Radio, television and communication apparatus and professional equipment	1,59	-0,1	-0,2	-0,2	0,0	-0,1	0,0
Radio, television and communication apparatus	0,92	-0,1	-0,1	-0,1	0,1	0,0	0,1
Professional equipment	0,67	0,0	-0,1	-0,1	-0,1	-0,1	-0,1
Motor vehicles, parts and accessories and other transport equipment	7,20	1,1	0,5	0,2	0,0	0,1	-0,6
Motor vehicles	2,60	0,6	0,1	0,1	0,5	0,3	0,2
Bodies for motor vehicles, trailers and semi-trailers	0,48	0,0	0,0	0,0	0,0	0,0	0,0
Parts and accessories	2,89	0,6	0,5	0,3	-0,5	-0,1	-0,4
Other transport equipment	1,23	-0,1	-0,1	-0,1	0,0	-0,1	-0,4
Furniture and other manufacturing	3,22	0,1	0,1	0,2	0,1	-0,3	0,1
Furniture	1,08	0,0	-0,1	-0,1	0,0	-0,1	-0,1
Other manufacturing groups	2,14	0,1	0,2	0,4	0,1	-0,2	0,2
Total	100	3,1	1,1	0,0	0,8	0,5	1,2

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	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Month-on-month % change
Food and beverages	25,78	108,6	107,9	108,5	107,2	108,1	0,8
Meat, fish, fruit, etc.	6,59	104,9	103,8	104,1	104,3	102,7	-1,5
Dairy products	2,00	109,0	105,7	112,7	108,7	110,3	1,5
Grain mill products	3,12	98,3	97,3	97,8	97,7	95,3	-2,5
Other food products	7,74	114,4	112,0	113,6	108,1	112,5	4,1
Beverages	6,33	109,7	112,6	110,3	112,9	113,3	0,4
Textiles, clothing, leather and footwear	3,21	91,2	92,5	90,0	85,4	84,0	-1,6
Textiles	0,80	101,2	99,8	98,4	93,5	86,4	-7,6
Other textile products	0,41	99,3	98,6	93,6	92,8	86,7	-6,6
Knitted, crocheted articles	0,09	89,0	86,4	92,0	92,9	86,1	-7,3
Wearing apparel	1,08	79,6	82,0	87,3	79,0	80,3	1,6
Leather and leather products	0,48	83,7	84,4	75,6	76,9	79,7	3,6
Footwear	0,35	105,5	114,1	94,4	88,0	91,9	4,4
Wood and wood products, paper, publishing and printing	11,28	98,6	96,3	96,5	95,8	92,7	-3,2
Sawmilling and planing of wood	1,69	101,1	98,1	98,3	97,2	96,5	-0,7
Products of wood	2,42	99,6	99,1	100,6	103,1	100,3	-2,7
Paper and paper products	4,09	103,2	101,5	99,4	98,6	93,3	-5,4
Publishing	1,45	82,6	79,0	78,7	79,6	78,1	-1,9
Printing, recorded media	1,63	96,7	92,7	97,2	91,1	89,5	-1,8
Petroleum, chemical products, rubber and plastic products	23,82	103,0	104,7	102,5	94,5	99,9	5,7
Coke, petroleum products and nuclear fuel	9,18	110,9	113,1	108,5	88,0	108,9	23,8
Basic chemicals	4,41	91,8	94,8	97,2	99,1	85,4	-13,8
Other chemical products	6,15	99,5	102,0	97,7	97,2	95,3	-2,0
Rubber products	1,30	96,0	88,5	96,5	96,8	89,7	-7,3
Plastic products	2,78	105,5	105,8	104,3	102,1	107,5	5,3
Glass and non-metallic mineral products	3,53	95,8	105,9	93,5	97,9	90,6	-7,5
Glass and glass products	0,69	111,6	117,6	107,0	117,2	122,2	4,3
Non-metallic mineral products	2,84	92,1	103,2	90,3	93,4	83,2	-10,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,74	101,8	101,8	100,2	101,5	103,3	1,8
Basic iron and steel products	3,52	118,0	113,9	103,5	119,1	115,4	-3,1
Non-ferrous metal products	2,60	107,4	109,3	108,2	104,5	105,5	1,0
Structural metal products	1,92	83,7	80,5	84,5	82,1	85,8	4,5
Other fabricated metal products	3,84	102,1	104,0	103,4	103,7	109,4	5,5
General purpose machinery	2,57	92,2	90,0	84,4	89,6	92,0	2,7
Special purpose machinery	3,50	99,5	102,4	106,2	98,3	105,3	7,1
Household appliances	0,79	94,6	97,7	102,8	102,1	82,1	-19,6
Electrical machinery	1,63	79,5	79,2	82,7	84,0	82,6	-1,7
Radio, television and communication apparatus and professional equipment	1,59	90,3	96,5	100,0	92,2	95,1	3,1
Radio, television and communication apparatus	0,92	95,9	101,4	112,4	103,6	107,9	4,2
Professional equipment	0,67	82,7	89,8	83,2	76,7	77,8	1,4
Motor vehicles, parts and accessories and other transport equipment	7,20	108,4	107,8	99,5	105,2	100,6	-4,4
Motor vehicles	2,60	101,2	105,3	104,8	109,2	103,8	-4,9
Bodies for motor vehicles, trailers and semi-trailers	0,48	101,8	104,6	107,0	106,1	111,4	5,0
Parts and accessories	2,89	126,2	122,0	99,2	110,7	106,0	-4,2
Other transport equipment	1,23	84,7	81,8	86,7	84,2	77,9	-7,5
Furniture and other manufacturing	3,22	105,2	106,5	103,7	97,9	95,8	-2,1
Furniture	1,08	89,0	86,7	90,8	88,8	84,1	-5,3
Other manufacturing groups	2,14	113,5	116,7	110,3	102,7	101,8	-0,9
Total	100	102,9	103,3	101,6	99,6	100,4	0,8

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

Month	2013	2014	2015	2016	2017	2018	2019 ¹
Jan	121 436	135 677	135 105	139 194	149 598	156 736	171 709
Feb	137 860	152 891	150 297	162 804	165 159	176 201	187 179
Mar	144 166	158 596	169 510	171 979	185 331	187 729	203 911
Apr	139 563	150 136	149 096	162 622	160 348	167 504	
May	147 760	154 928	160 228	175 473	182 017	194 480	
Jun	145 708	163 114	165 325	179 564	185 638	194 615	
Jul	153 100	152 581	165 809	173 159	177 157	196 533	
Aug	150 611	163 460	163 742	179 525	188 712	204 207	
Sep	146 841	170 204	174 697	186 940	191 032	207 070	
Oct	163 656	183 528	181 093	186 342	199 764	223 783	
Nov	169 622	178 453	181 957	198 464	216 510	228 660	
Dec	146 427	154 776	158 052	165 556	175 770	184 916	
Total	1 766 750	1 918 344	1 954 911	2 081 622	2 177 036	2 322 434	

¹ The latest three months are preliminary.

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

Month	2014	2015	2016	2017	2018	2019	2019 year-to-date
Jan	11,7	-0,4	3,0	7,5	4,8	9,6	9,6
Feb	10,9	-1,7	8,3	1,4	6,7	6,2	7,8
Mar	10,0	6,9	1,5	7,8	1,3	8,6	8,1
Apr	7,6	-0,7	9,1	-1,4	4,5		
May	4,9	3,4	9,5	3,7	6,8		
Jun	11,9	1,4	8,6	3,4	4,8		
Jul	-0,3	8,7	4,4	2,3	10,9		
Aug	8,5	0,2	9,6	5,1	8,2		
Sep	15,9	2,6	7,0	2,2	8,4		
Oct	12,1	-1,3	2,9	7,2	12,0		
Nov	5,2	2,0	9,1	9,1	5,6		
Dec	5,7	2,1	4,7	6,2	5,2		
Total	8,6	1,9	6,5	4,6	6,7		

Table 10 – Seasonally adjusted manufacturing sales at current prices

Month	R million				Month-on-month % change			
	2016	2017	2018	2019	2016	2017	2018	2019
Jan	167 017	177 483	184 435	201 172	1,6	1,8	-1,6	1,8
Feb	170 843	175 339	187 260	198 810	2,3	-1,2	1,5	-1,2
Mar	170 016	177 619	187 629	200 961	-0,5	1,3	0,2	1,1
Apr	172 874	179 457	180 523		1,7	1,0	-3,8	
May	175 988	180 158	192 220		1,8	0,4	6,5	
Jun	175 894	180 363	191 290		-0,1	0,1	-0,5	
Jul	174 792	180 022	196 576		-0,6	-0,2	2,8	
Aug	173 756	182 578	196 447		-0,6	1,4	-0,1	
Sep	175 743	182 013	201 525		1,1	-0,3	2,6	
Oct	172 172	182 228	202 771		-2,0	0,1	0,6	
Nov	174 827	191 471	200 966		1,5	5,1	-0,9	
Dec	174 303	187 458	197 561		-0,3	-2,1	-1,7	

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

Manufacturing division and major group	Oct-18	Nov-18	Dec-18	¹ Jan-19	¹ Feb-19	¹ Mar-19
Food and beverages	49 839	52 495	52 126	43 568	41 774	46 051
Meat, fish, fruit, etc.	13 469	14 547	13 910	10 828	11 521	12 498
Dairy products	4 326	4 188	4 110	4 002	3 710	4 300
Grain mill products	6 717	7 045	6 316	6 129	5 817	6 720
Other food products	10 511	10 648	9 419	10 797	8 498	9 012
Beverages	14 815	16 067	18 370	11 811	12 228	13 521
Textiles, clothing, leather and footwear	5 612	5 896	4 008	3 374	4 245	4 726
Textiles	708	711	388	446	581	575
Other textile products	1 575	1 661	1 005	929	1 249	1 299
Knitted, crocheted articles	239	234	140	168	206	228
Wearing apparel	1 784	1 880	1 338	965	1 290	1 500
Leather and leather products	696	679	545	497	497	638
Footwear	610	731	593	369	421	486
Wood and wood products, paper, publishing and printing	16 486	17 173	13 634	12 555	13 716	14 184
Sawmilling and planing of wood	1 190	1 054	650	904	871	1 014
Products of wood	2 526	2 414	1 515	1 611	2 043	2 103
Paper and paper products	7 476	7 984	7 284	6 421	6 702	7 006
Publishing	1 940	2 019	1 590	1 303	1 520	1 451
Printing, recorded media	3 355	3 702	2 595	2 316	2 580	2 610
Petroleum, chemical products, rubber and plastic products	47 704	46 578	39 704	36 887	36 456	40 348
Coke, petroleum products and nuclear fuel	16 021	14 604	14 389	13 120	10 637	12 978
Basic chemicals	9 979	9 746	7 765	7 615	7 712	8 220
Other chemical products	13 209	13 620	11 590	10 271	11 162	11 959
Rubber products	1 543	1 616	1 015	1 067	1 406	1 491
Plastic products	6 953	6 992	4 945	4 814	5 539	5 700
Glass and non-metallic mineral products	6 665	6 548	4 390	4 136	5 005	5 268
Glass and glass products	1 222	1 322	939	877	908	958
Non-metallic mineral products	5 442	5 226	3 451	3 259	4 098	4 310
Basic iron and steel, non-ferrous metal products, metal products and machinery	48 342	48 952	38 880	37 393	42 441	49 605
Basic iron and steel products	11 636	12 588	9 290	9 934	10 517	12 661
Non-ferrous metal products	14 182	14 338	13 648	12 356	12 201	14 604
Structural metal products	3 326	3 430	1 961	2 085	2 837	3 146
Other fabricated metal products	7 671	7 666	4 893	5 245	6 614	7 124
General purpose machinery	3 963	3 749	2 915	2 398	3 269	3 792
Special purpose machinery	6 234	5 775	5 179	4 317	5 773	6 865
Household appliances	1 330	1 406	994	1 059	1 228	1 414
Electrical machinery	4 776	5 019	3 384	3 395	4 547	5 247
Radio, television and communication apparatus and professional equipment	2 206	2 429	2 463	1 547	2 102	2 162
Radio, television and communication apparatus	1 250	1 498	1 480	912	1 321	1 323
Professional equipment	955	931	984	635	781	839
Motor vehicles, parts and accessories and other transport equipment	33 460	34 388	18 678	22 887	29 410	29 142
Motor vehicles	20 524	21 060	10 411	13 798	17 353	15 908
Bodies for motor vehicles, trailers and semi-trailers	1 344	1 333	751	900	1 120	1 257
Parts and accessories	8 778	9 030	4 773	6 014	8 253	8 819
Other transport equipment	2 814	2 966	2 743	2 175	2 684	3 158
Furniture and other manufacturing	8 694	9 184	7 650	5 968	7 483	7 178
Furniture	1 723	1 787	1 204	851	1 268	1 211
Other manufacturing groups	6 971	7 397	6 446	5 116	6 215	5 967
Total	223 783	228 660	184 916	171 709	187 179	203 911

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	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19
Food and beverages	8,6	5,6	7,9	15,4	7,3	6,4
Meat, fish, fruit, etc.	9,0	6,7	5,7	-0,6	5,1	4,5
Dairy products	8,3	3,4	7,6	10,6	5,4	9,8
Grain mill products	8,7	5,9	5,8	14,6	10,0	9,1
Other food products	-0,4	-6,3	3,8	32,6	3,7	5,2
Beverages	15,9	14,7	12,8	21,2	11,5	6,7
Textiles, clothing, leather and footwear	2,6	0,6	-3,0	-3,0	-3,5	1,2
Textiles	-6,5	-3,1	-0,3	-1,8	-1,7	-3,4
Other textile products	6,1	9,1	-10,5	-0,6	-3,9	-3,3
Knitted, crocheted articles	1,7	-7,1	-12,5	5,7	-4,6	-5,4
Wearing apparel	-0,6	-7,0	-7,5	-1,4	-4,9	-0,9
Leather and leather products	-0,9	-2,3	-6,4	-14,5	-9,6	11,1
Footwear	21,8	15,7	36,6	-0,8	9,9	21,2
Wood and wood products, paper, publishing and printing	10,3	3,6	5,1	8,4	3,3	6,9
Sawmilling and planing of wood	-5,8	1,4	-16,6	3,4	-9,0	-0,1
Products of wood	2,1	-5,5	-6,7	4,4	4,9	-6,3
Paper and paper products	17,6	7,8	9,7	8,1	3,0	16,6
Publishing	6,4	-3,4	5,1	1,1	2,7	3,9
Printing, recorded media	10,8	6,3	7,4	20,0	8,1	0,4
Petroleum, chemical products, rubber and plastic products	14,2	5,9	2,6	3,7	4,1	7,0
Coke, petroleum products and nuclear fuel	22,9	7,3	4,7	1,8	1,1	14,5
Basic chemicals	9,3	1,9	-2,8	2,7	4,5	-1,3
Other chemical products	11,9	8,4	3,7	6,9	6,4	5,2
Rubber products	3,1	6,0	-2,3	-1,5	6,0	2,2
Plastic products	10,4	4,0	4,4	5,3	4,7	8,9
Glass and non-metallic mineral products	3,8	-1,9	5,7	-0,9	-4,3	-4,7
Glass and glass products	3,7	9,1	7,7	9,5	13,6	17,7
Non-metallic mineral products	3,8	-4,4	5,2	-3,4	-7,5	-8,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	10,1	3,0	11,5	5,6	3,8	16,9
Basic iron and steel products	-5,0	-9,8	10,7	-13,7	-8,9	9,0
Non-ferrous metal products	28,8	19,8	32,7	28,5	15,4	41,2
Structural metal products	10,5	-5,7	-6,6	13,7	-1,7	11,0
Other fabricated metal products	10,9	3,1	-4,1	1,5	6,5	9,1
General purpose machinery	3,6	-0,7	-9,1	-4,1	-5,7	1,3
Special purpose machinery	10,9	4,9	7,6	14,7	14,1	12,1
Household appliances	5,2	11,2	1,7	3,3	6,7	12,3
Electrical machinery	-0,2	-4,0	-13,4	-5,0	0,0	4,7
Radio, television and communication apparatus and professional equipment	-1,1	-2,7	5,5	-3,7	3,1	2,3
Radio, television and communication apparatus	-4,6	-3,5	14,7	3,8	19,3	13,0
Professional equipment	3,7	-1,4	-5,8	-12,7	-16,2	-10,8
Motor vehicles, parts and accessories and other transport equipment	26,1	14,5	-3,9	26,1	19,4	8,4
Motor vehicles	36,9	23,7	-7,0	51,3	31,5	13,5
Bodies for motor vehicles, trailers and semi-trailers	13,3	6,2	-4,1	13,9	10,1	9,9
Parts and accessories	15,9	3,6	1,1	-2,0	9,3	14,0
Other transport equipment	1,4	-2,0	0,0	3,6	-6,1	-20,7
Furniture and other manufacturing	10,9	9,1	10,2	9,5	3,2	5,3
Furniture	-4,4	-8,4	-10,1	-7,8	-8,4	-5,9
Other manufacturing groups	15,4	14,3	15,0	13,0	6,0	7,9
Total	12,0	5,6	5,2	9,6	6,2	8,6

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

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

Manufacturing division and major group	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Month-on-month % change
Food and beverages	45 988	45 779	49 294	46 238	46 916	1,5
Meat, fish, fruit, etc.	12 869	12 685	12 627	12 740	12 663	-0,6
Dairy products	3 929	3 800	4 153	4 038	4 114	1,9
Grain mill products	6 409	6 347	6 544	6 501	6 522	0,3
Other food products	9 348	9 668	12 160	9 529	9 765	2,5
Beverages	13 434	13 279	13 811	13 430	13 852	3,1
Textiles, clothing, leather and footwear	4 705	4 819	4 637	4 533	4 601	1,5
Textiles	591	606	578	585	546	-6,7
Other textile products	1 351	1 320	1 288	1 283	1 288	0,4
Knitted, crocheted articles	201	199	230	208	205	-1,4
Wearing apparel	1 463	1 462	1 505	1 465	1 457	-0,5
Leather and leather products	614	608	550	508	621	22,2
Footwear	485	625	486	483	483	0,0
Wood and wood products, paper, publishing and printing	14 564	14 407	14 715	14 381	14 110	-1,9
Sawmilling and planing of wood	1 025	809	1 048	923	926	0,3
Products of wood	2 031	2 009	2 074	2 133	2 056	-3,6
Paper and paper products	7 196	7 209	7 150	6 963	6 753	-3,0
Publishing	1 613	1 587	1 602	1 611	1 608	-0,2
Printing, recorded media	2 700	2 794	2 840	2 752	2 768	0,6
Petroleum, chemical products, rubber and plastic products	40 877	41 837	40 648	40 710	41 811	2,7
Coke, petroleum products and nuclear fuel	13 696	13 750	13 295	12 958	14 228	9,8
Basic chemicals	8 353	8 606	8 376	8 620	8 442	-2,1
Other chemical products	11 774	12 406	11 859	12 014	11 868	-1,2
Rubber products	1 399	1 354	1 326	1 352	1 340	-0,9
Plastic products	5 655	5 722	5 792	5 765	5 933	2,9
Glass and non-metallic mineral products	5 454	5 968	5 451	5 482	5 277	-3,7
Glass and glass products	1 004	1 030	1 027	1 061	1 099	3,6
Non-metallic mineral products	4 450	4 938	4 425	4 422	4 178	-5,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	44 928	45 155	43 571	43 552	46 629	7,1
Basic iron and steel products	11 891	11 851	10 098	10 788	11 704	8,5
Non-ferrous metal products	13 545	13 790	13 343	12 673	14 583	15,1
Structural metal products	2 844	2 717	2 832	2 734	2 935	7,4
Other fabricated metal products	6 510	6 745	6 664	6 832	6 851	0,3
General purpose machinery	3 414	3 236	3 349	3 381	3 547	4,9
Special purpose machinery	5 523	5 588	6 058	5 912	5 745	-2,8
Household appliances	1 201	1 228	1 228	1 231	1 264	2,7
Electrical machinery	4 414	4 359	4 353	4 499	4 681	4,0
Radio, television and communication apparatus and professional equipment	2 035	2 354	2 081	2 171	2 123	-2,2
Radio, television and communication apparatus	1 178	1 405	1 256	1 379	1 328	-3,7
Professional equipment	857	950	825	792	795	0,4
Motor vehicles, parts and accessories and other transport equipment	30 050	24 920	28 582	29 623	27 223	-8,1
Motor vehicles	18 236	13 349	17 326	17 629	15 367	-12,8
Bodies for motor vehicles, trailers and semi-trailers	1 094	1 079	1 297	1 157	1 184	2,3
Parts and accessories	7 893	7 712	7 111	8 031	8 006	-0,3
Other transport equipment	2 827	2 781	2 848	2 806	2 666	-5,0
Furniture and other manufacturing	7 951	7 962	7 839	7 621	7 590	-0,4
Furniture	1 329	1 366	1 348	1 349	1 335	-1,0
Other manufacturing groups	6 622	6 596	6 492	6 272	6 255	-0,3
Total	200 966	197 561	201 172	198 810	200 961	1,1

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 *Standard Industrial Classification of all Economic Activities* (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 *International Standard Industrial Classification of all Economic Activities* (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 for March 2019 was 84,7%. The improved collection rate for February 2019 was 87,4%.
- 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 *Stats in Brief* 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 3 083 enterprises from a population of 50 191 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 2018 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	1 842 288	15 000 000
Small	3	15 000 001	39 000 000
Medium	2	39 000 001	153 000 000
Large	1	153 000 001	

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 2019	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		
	2014 (based on value added for 2013 – 2014)	2015 (based on value added for 2013 – 2015)	2016 – 2019 (based on value added for 2014 – 2016)
Food and beverages	24,72	25,15	25,78
Meat, fish, fruit, etc.	6,26	6,39	6,59
Dairy products	1,84	1,89	2,00
Grain mill products	2,75	2,86	3,12
Other food products	7,61	7,62	7,74
Beverages	6,26	6,39	6,33
Textiles, clothing, leather and footwear	3,33	3,28	3,21
Textiles	0,86	0,83	0,80
Other textile products	0,40	0,41	0,41
Knitted, crocheted articles	0,09	0,09	0,09
Wearing apparel	1,12	1,10	1,08
Leather and leather products	0,50	0,49	0,48
Footwear	0,36	0,36	0,35
Wood and wood products, paper, publishing and printing	11,73	11,62	11,28
Sawmilling and planing of wood	1,70	1,71	1,69
Products of wood	2,29	2,37	2,42
Paper and paper products	4,44	4,33	4,09
Publishing	1,52	1,49	1,45
Printing, recorded media	1,78	1,72	1,63
Petroleum, chemical products, rubber and plastic products	24,04	24,01	23,82
Coke, petroleum products and nuclear fuel	9,34	9,29	9,18
Basic chemicals	4,26	4,36	4,41
Other chemical products	6,11	6,16	6,15
Rubber products	1,37	1,34	1,30
Plastic products	2,96	2,86	2,78
Glass and non-metallic mineral products	4,14	3,90	3,53
Glass and glass products	0,78	0,74	0,69
Non-metallic mineral products	3,36	3,16	2,84
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	18,72	18,74
Basic iron and steel products	3,27	3,44	3,52
Non-ferrous metal products (including precious metals)	2,93	2,73	2,60
Structural metal products	1,83	1,86	1,92
Other fabricated metal products	3,86	3,86	3,84
General purpose machinery	2,46	2,51	2,57
Special purpose machinery	3,52	3,51	3,50
Household appliances	0,82	0,81	0,79
Electrical machinery	1,65	1,65	1,63
Radio, television and communication apparatus and professional equipment	1,63	1,61	1,59
Radio, television and communication apparatus	0,96	0,93	0,92
Professional equipment	0,67	0,68	0,67
Motor vehicles, parts and accessories and other transport equipment	6,91	6,86	7,20
Motor vehicles	2,44	2,43	2,60
Bodies for motor vehicles, trailers and semi-trailers	0,49	0,46	0,48
Parts and accessories	2,78	2,76	2,89
Other transport equipment	1,20	1,21	1,23
Furniture and other manufacturing	3,16	3,20	3,22
Furniture	1,07	1,09	1,08
Other manufacturing groups	2,09	2,11	2,14
Total	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](#)
- 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

Technical enquiries

Nicolai Claassen Telephone number: (012) 310 8007
Email: nicolaic@statssa.gov.za

Gerda Bruwer Telephone number: (012) 310 8249
Email: gerdab@statssa.gov.za

