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Department:
Statistics South Africa
REPUBLIC OF SOUTH AFRICA

Private Bag X44, Pretoria, 0001, South Africa, ISibalo House, Koch Street, Salvokop, Pretoria, 0002
www.statssa.gov.za, info@statssa.gov.za, Tel +27 12 310 8911

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The South Africa I know, the home I understand



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Production: results for November 2019

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

	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19
Year-on-year % change, unadjusted	-3,6	-0,6	-1,5	-2,4	-0,8	-3,6
Month-on-month % change, seasonally adjusted	-1,9	0,9	1,3	-2,4	2,5	-1,5
3-month % change, seasonally adjusted ¹	0,4	-1,4	-1,7	-1,1	0,5	0,0

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

Manufacturing production decreased by 3,6% in November 2019 compared with November 2018. Nine of the ten manufacturing divisions reported negative growth rates over this period. The largest negative contributions were made by the following divisions:

- wood and wood products, paper, publishing and printing (-9,3% and contributing -1,1 percentage points);
- motor vehicles, parts and accessories and other transport equipment (-10,0% and contributing -0,8 of a percentage point);
- petroleum, chemical products, rubber and plastic products (-2,6% and contributing -0,6 of a percentage point);
- textiles, clothing, leather and footwear (-13,3% and contributing -0,4 of a percentage point); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (-2,5% and contributing -0,4 of a percentage point) – see Tables 5 and 6.

Seasonally adjusted manufacturing production decreased by 1,5% in November 2019 compared with October 2019. This followed month-on-month changes of 2,5% in October 2019 and -2,4% in September 2019 – see Table A.

Seasonally adjusted manufacturing production was flat in the three months ended November 2019 compared with the previous three months. Three of the ten manufacturing divisions reported positive growth rates over this period.

The largest positive contribution was made by the petroleum, chemical products, rubber and plastic products division (5,8% and contributing 1,2 percentage points). The largest negative contribution was made by the motor vehicles, parts and accessories and other transport equipment division (-9,4% 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	Jun – Aug 2019	Sep – Nov 2019	% change between Jun – Aug 2019 and Sep – Nov 2019	Contribution (% points) to the total % change
Food and beverages	26,64	110,9	110,0	-0,8	-0,2
Meat, fish, fruit, etc.	6,69	103,5	104,6	1,1	0,1
Dairy products	2,15	116,1	113,4	-2,3	-0,1
Grain mill products	3,37	98,1	99,4	1,3	0,0
Other food products	8,14	122,0	119,0	-2,5	-0,2
Beverages	6,29	109,6	108,5	-1,0	-0,1
Textiles, clothing, leather and footwear	3,12	88,7	82,7	-6,8	-0,2
Textiles	0,78	99,8	97,2	-2,6	0,0
Other textile products	0,40	90,3	88,2	-2,3	0,0
Knitted, crocheted articles	0,09	83,6	75,2	-10,0	0,0
Wearing apparel	1,04	82,2	74,9	-8,9	-0,1
Leather and leather products	0,46	71,5	63,0	-11,9	0,0
Footwear	0,35	106,0	95,4	-10,0	0,0
Wood and wood products, paper, publishing and printing	11,45	94,7	92,4	-2,4	-0,3
Sawmilling and planing of wood	1,73	98,8	91,5	-7,4	-0,1
Products of wood	2,57	99,7	97,3	-2,4	-0,1
Paper and paper products	4,14	97,5	93,9	-3,7	-0,1
Publishing	1,43	77,0	79,2	2,9	0,0
Printing, recorded media	1,58	90,9	93,5	2,9	0,0
Petroleum, chemical products, rubber and plastic products	23,07	93,5	98,9	5,8	1,2
Coke, petroleum products and nuclear fuel	8,67	90,0	103,9	15,4	1,2
Basic chemicals	4,29	90,5	93,2	3,0	0,1
Other chemical products	6,19	93,4	94,0	0,6	0,0
Rubber products	1,24	99,9	97,5	-2,4	0,0
Plastic products	2,68	106,5	103,8	-2,5	-0,1
Glass and non-metallic mineral products	3,18	89,7	87,2	-2,8	-0,1
Glass and glass products	0,66	108,6	109,9	1,2	0,0
Non-metallic mineral products	2,52	84,8	81,3	-4,1	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	98,6	100,3	1,7	0,3
Basic iron and steel products	3,57	101,4	111,2	9,7	0,3
Non-ferrous metal products	2,58	101,6	101,8	0,2	0,0
Structural metal products	1,99	87,9	87,7	-0,2	0,0
Other fabricated metal products	3,79	100,3	98,4	-1,9	-0,1
General purpose machinery	2,58	97,8	98,2	0,4	0,0
Special purpose machinery	3,41	97,8	99,6	1,8	0,1
Household appliances	0,77	100,2	96,9	-3,3	0,0
Electrical machinery	1,64	82,1	79,7	-2,9	0,0
Radio, television and communication apparatus and professional equipment	1,54	88,4	91,4	3,4	0,0
Radio, television and communication apparatus	0,90	91,2	95,0	4,2	0,0
Professional equipment	0,64	84,5	86,4	2,2	0,0
Motor vehicles, parts and accessories and other transport equipment	7,56	112,2	101,7	-9,4	-0,8
Motor vehicles	2,82	111,0	96,2	-13,3	-0,4
Bodies for motor vehicles, trailers and semi-trailers	0,47	116,6	114,1	-2,1	0,0
Parts and accessories	3,04	126,5	114,0	-9,9	-0,4
Other transport equipment	1,23	77,8	79,4	2,1	0,0
Furniture and other manufacturing	3,11	97,1	94,7	-2,5	-0,1
Furniture	1,07	84,0	82,4	-1,9	0,0
Other manufacturing groups	2,04	104,0	101,2	-2,7	-0,1
Total	100	100,2	100,2	0,0	0,0

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

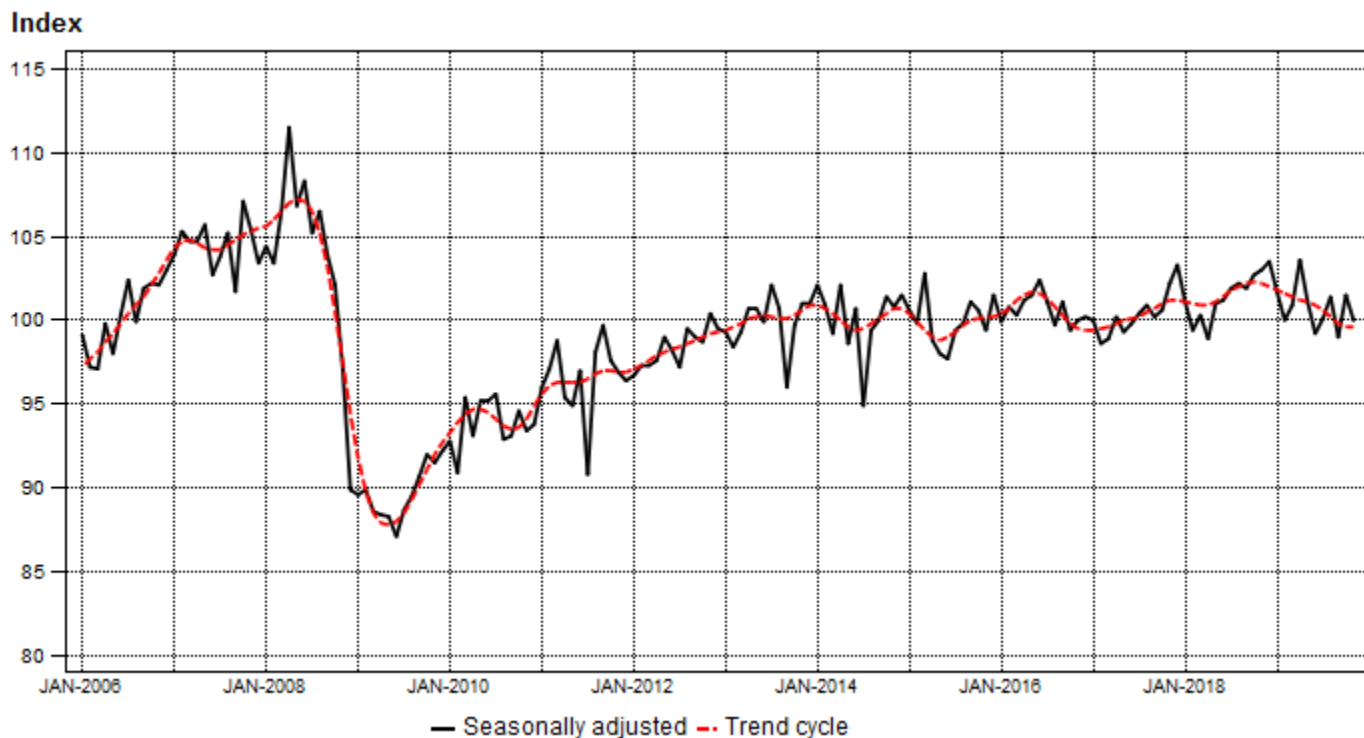
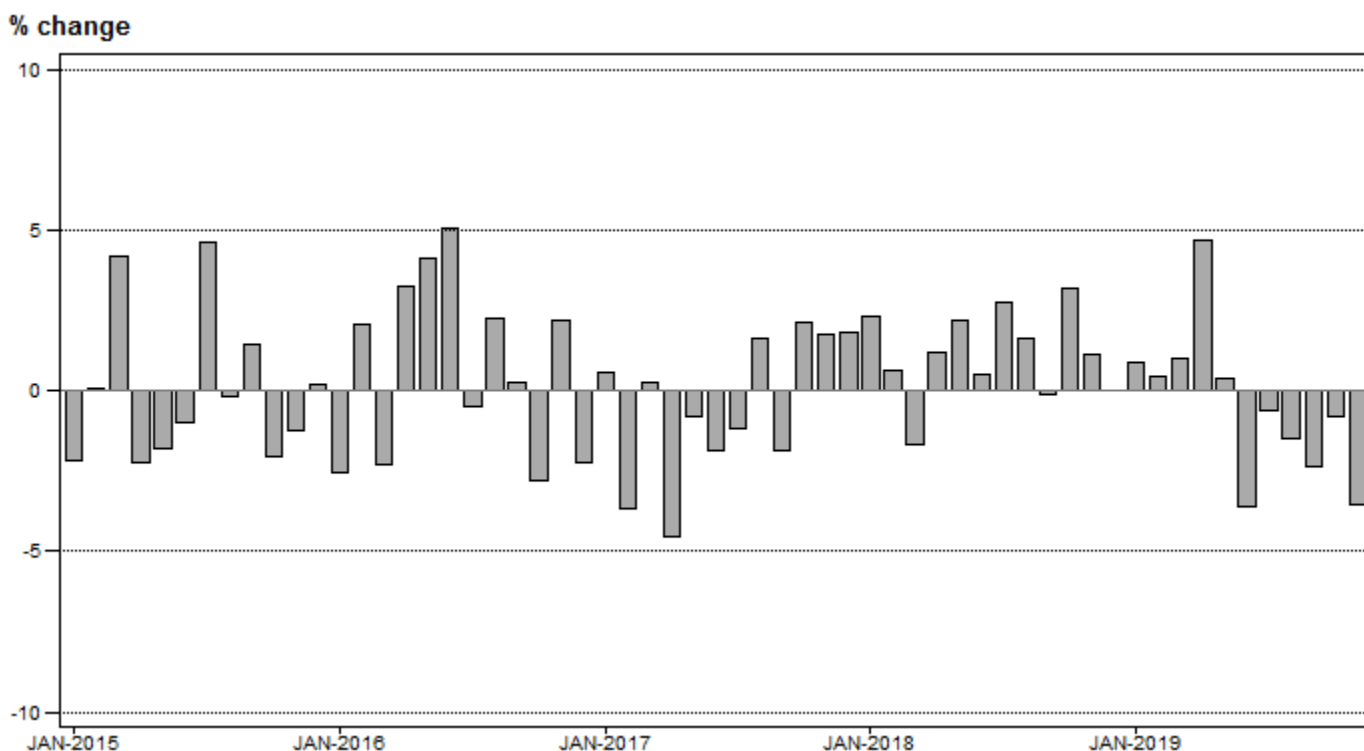


Figure 2 – Volume of manufacturing production (Base: 2015=100): year-on-year percentage change



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

	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19
Year-on-year % change, unadjusted	3,8	4,7	5,0	0,2	0,8	-2,0
Month-on-month % change, seasonally adjusted	1,5	0,3	2,0	-3,2	1,4	-2,3
3-month % change, seasonally adjusted ¹	1,5	-0,2	0,9	0,3	1,0	-1,7

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

Seasonally adjusted manufacturing sales decreased by 2,3% in November 2019 compared with October 2019. This followed month-on-month changes of 1,4% in October 2019 and -3,2% in September 2019 – see Table C.

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

Manufacturing division	Jun – Aug 2019 (R million)	Sep – Nov 2019 (R million)	% change between Jun – Aug 2019 and Sep – Nov 2019	Contribution (% points) to the total % change
Food and beverages	141 614	142 274	0,5	0,1
Textiles, clothing, leather and footwear	15 408	14 830	-3,8	-0,1
Wood and wood products, paper, publishing and printing	41 279	40 847	-1,0	-0,1
Petroleum, chemical products, rubber and plastic products	121 338	117 705	-3,0	-0,6
Glass and non-metallic mineral products	16 826	16 628	-1,2	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	138 899	137 123	-1,3	-0,3
Electrical machinery	13 874	13 764	-0,8	0,0
Radio, television and communication apparatus and professional equipment	6 124	6 342	3,6	0,0
Motor vehicles, parts and accessories and other transport equipment	88 451	83 927	-5,1	-0,7
Furniture and other manufacturing	21 604	21 853	1,2	0,0
Total	605 414	595 296	-1,7	-1,7

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	85,3	87,3	88,1
Feb	93,4	95,5	95,6	97,6	94,0	94,6	95,0
Mar	98,2	99,6	103,8	101,4	101,7	100,0	101,0
Apr	95,6	94,5	92,4	95,4	91,1	92,2	96,5
May	101,9	99,2	97,4	101,4	100,6	102,8	103,2
Jun	98,6	99,8	98,8	103,8	101,9	102,4	98,7
Jul	104,8	97,5	102,0	101,5	100,3	103,1	102,5
Aug	103,8	101,4	101,2	103,5	105,2	106,9	105,3
Sep	99,1	105,5	107,0	107,3	105,3	105,2	102,7
Oct	111,3	113,2	110,9	107,8	110,1	113,6	112,7
Nov	113,1	111,1	109,7	112,1	114,1	115,4	111,3
Dec	92,4	93,9	94,1	92,0	93,7	93,7	
Total	99,9	100,0	100,0	100,7	100,3	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	0,6	2,3	0,9	0,9
Feb	2,2	0,1	2,1	-3,7	0,6	0,4	0,7
Mar	1,4	4,2	-2,3	0,3	-1,7	1,0	0,7
Apr	-1,2	-2,2	3,2	-4,5	1,2	4,7	1,8
May	-2,6	-1,8	4,1	-0,8	2,2	0,4	1,5
Jun	1,2	-1,0	5,1	-1,8	0,5	-3,6	0,5
Jul	-7,0	4,6	-0,5	-1,2	2,8	-0,6	0,4
Aug	-2,3	-0,2	2,3	1,6	1,6	-1,5	0,1
Sep	6,5	1,4	0,3	-1,9	-0,1	-2,4	-0,2
Oct	1,7	-2,0	-2,8	2,1	3,2	-0,8	-0,2
Nov	-1,8	-1,3	2,2	1,8	1,1	-3,6	-0,6
Dec	1,6	0,2	-2,2	1,8	0,0		
Total	0,1	0,0	0,7	-0,4	1,1		

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	99,9	100,0	101,1	101,7	-1,6	-0,2	-2,1	-1,7
Feb	100,8	98,6	99,4	100,0	0,9	-1,4	-1,7	-1,7
Mar	100,3	98,9	100,3	100,9	-0,5	0,3	0,9	0,9
Apr	101,2	100,2	98,9	103,6	0,9	1,3	-1,4	2,7
May	101,5	99,3	101,0	101,1	0,3	-0,9	2,1	-2,4
Jun	102,4	99,8	101,2	99,2	0,9	0,5	0,2	-1,9
Jul	101,1	100,4	101,9	100,1	-1,3	0,6	0,7	0,9
Aug	99,7	100,9	102,2	101,4	-1,4	0,5	0,3	1,3
Sep	101,1	100,2	101,9	99,0	1,4	-0,7	-0,3	-2,4
Oct	99,4	100,6	102,7	101,5	-1,7	0,4	0,8	2,5
Nov	100,0	102,2	103,0	100,0	0,6	1,6	0,3	-1,5
Dec	100,2	103,3	103,5		0,2	1,1	0,5	

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

Manufacturing division and major group	Weights	Jun-19	Jul-19	Aug-19	¹ Sep-19	¹ Oct-19	¹ Nov-19
Food and beverages	26,64	109,3	111,8	114,8	112,4	122,5	123,2
Meat, fish, fruit, etc.	6,69	101,4	104,2	104,1	102,8	113,4	111,5
Dairy products	2,15	102,9	109,6	118,4	120,5	127,7	117,7
Grain mill products	3,37	97,1	104,1	97,6	99,0	106,2	107,0
Other food products	8,14	136,9	133,1	135,4	127,4	137,2	131,6
Beverages	6,29	90,7	97,3	107,5	107,7	120,2	135,3
Textiles, clothing, leather and footwear	3,12	82,6	94,0	94,4	89,3	99,8	96,9
Textiles	0,78	94,3	107,8	100,3	103,1	114,5	108,8
Other textile products	0,40	88,2	89,0	96,2	91,0	103,6	107,7
Knitted, crocheted articles	0,09	90,4	85,0	83,2	86,9	78,4	73,9
Wearing apparel	1,04	69,3	95,3	94,7	85,1	94,7	89,1
Leather and leather products	0,46	72,0	63,3	69,9	67,3	75,3	65,2
Footwear	0,35	102,2	108,0	114,0	98,9	115,9	129,7
Wood and wood products, paper, publishing and printing	11,45	95,4	96,8	97,4	102,5	105,6	103,1
Sawmilling and planing of wood	1,73	96,8	111,4	99,4	93,6	100,5	97,0
Products of wood	2,57	101,7	102,0	107,9	101,8	117,8	112,5
Paper and paper products	4,14	100,5	95,6	97,7	110,4	100,9	95,9
Publishing	1,43	78,0	79,1	78,8	94,6	94,6	90,5
Printing, recorded media	1,58	85,9	91,7	94,5	99,5	113,4	124,7
Petroleum, chemical products, rubber and plastic products	23,07	89,7	93,4	100,6	96,7	108,9	109,6
Coke, petroleum products and nuclear fuel	8,67	83,7	84,7	101,5	93,1	109,4	109,1
Basic chemicals	4,29	87,9	94,9	98,0	97,0	104,0	104,4
Other chemical products	6,19	91,7	92,3	97,6	94,7	106,6	108,6
Rubber products	1,24	99,0	114,2	101,6	103,1	105,7	104,3
Plastic products	2,68	103,1	111,9	108,7	109,5	121,9	124,6
Glass and non-metallic mineral products	3,18	92,8	96,5	98,9	93,6	102,5	101,0
Glass and glass products	0,66	102,6	107,6	123,1	106,8	133,3	130,4
Non-metallic mineral products	2,52	90,2	93,6	92,6	90,2	94,4	93,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	100,2	101,0	99,8	102,9	111,1	107,1
Basic iron and steel products	3,57	103,9	91,6	90,4	108,5	124,5	110,5
Non-ferrous metal products	2,58	103,2	102,8	100,7	98,8	105,0	106,5
Structural metal products	1,99	90,3	95,1	95,7	94,5	100,3	100,2
Other fabricated metal products	3,79	99,7	107,8	106,6	101,2	114,1	109,3
General purpose machinery	2,58	102,2	100,3	105,1	104,7	106,1	109,8
Special purpose machinery	3,41	100,7	104,3	99,5	106,9	110,0	102,4
Household appliances	0,77	91,8	107,4	99,9	96,2	103,3	112,8
Electrical machinery	1,64	84,1	84,8	87,0	86,7	85,7	90,9
Radio, television and communication apparatus and professional equipment	1,54	83,4	88,1	91,8	97,9	103,8	105,4
Radio, television and communication apparatus	0,90	82,1	91,8	98,7	105,1	109,5	111,8
Professional equipment	0,64	85,1	82,9	82,1	87,8	95,8	96,5
Motor vehicles, parts and accessories and other transport equipment	7,56	108,0	123,0	125,0	102,2	120,1	110,4
Motor vehicles	2,82	111,0	123,9	132,5	100,1	120,8	101,5
Bodies for motor vehicles, trailers and semi-trailers	0,47	117,5	119,9	126,8	108,2	137,8	133,5
Parts and accessories	3,04	113,2	142,6	134,5	107,1	133,4	126,6
Other transport equipment	1,23	84,7	73,9	83,5	92,4	79,0	81,8
Furniture and other manufacturing	3,11	92,8	102,8	105,7	99,9	115,9	117,1
Furniture	1,07	82,6	85,7	87,8	85,6	105,8	109,9
Other manufacturing groups	2,04	98,1	111,8	115,1	107,5	121,2	120,9
Total	100	98,7	102,5	105,3	102,7	112,7	111,3

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

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	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19
Food and beverages	26,64	0,8	1,9	0,9	0,7	1,1	0,4
Meat, fish, fruit, etc.	6,69	-0,2	0,1	-0,2	-0,2	0,2	-0,2
Dairy products	2,15	0,2	0,3	0,2	0,3	0,3	-0,1
Grain mill products	3,37	-0,1	0,1	-0,1	0,0	0,1	0,0
Other food products	8,14	1,0	0,8	0,6	0,6	0,8	0,5
Beverages	6,29	-0,1	0,6	0,4	0,0	-0,2	0,2
Textiles, clothing, leather and footwear	3,12	-0,3	0,0	-0,1	-0,2	-0,3	-0,4
Textiles	0,78	-0,1	0,0	0,0	0,0	0,0	-0,1
Other textile products	0,40	-0,1	-0,1	0,0	-0,1	-0,1	0,0
Knitted, crocheted articles	0,09	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	1,04	-0,1	0,0	0,0	0,0	0,0	-0,1
Leather and leather products	0,46	-0,1	0,0	-0,1	-0,1	-0,1	-0,1
Footwear	0,35	0,0	0,1	0,1	0,0	-0,1	0,0
Wood and wood products, paper, publishing and printing	11,45	-0,5	-0,5	-0,8	-0,7	-0,6	-1,1
Sawmilling and planing of wood	1,73	-0,1	0,0	-0,2	-0,1	-0,2	-0,1
Products of wood	2,57	-0,2	-0,1	0,0	-0,4	-0,1	-0,1
Paper and paper products	4,14	0,0	-0,1	-0,4	-0,2	-0,2	-0,6
Publishing	1,43	-0,1	-0,2	-0,2	0,0	0,0	-0,1
Printing, recorded media	1,58	-0,1	-0,1	0,0	0,0	-0,1	0,0
Petroleum, chemical products, rubber and plastic products	23,07	-1,8	-1,6	-1,0	-0,6	-0,1	-0,6
Coke, petroleum products and nuclear fuel	8,67	-1,0	-1,5	-0,3	-0,5	0,2	-0,1
Basic chemicals	4,29	-0,5	-0,1	-0,3	0,3	0,0	0,0
Other chemical products	6,19	-0,3	-0,3	-0,4	-0,4	-0,2	-0,3
Rubber products	1,24	0,0	0,1	0,0	0,1	0,0	0,0
Plastic products	2,68	0,0	0,1	-0,1	-0,1	-0,1	-0,1
Glass and non-metallic mineral products	3,18	-0,4	-0,2	-0,2	-0,2	-0,3	-0,3
Glass and glass products	0,66	0,0	0,0	0,0	0,0	0,1	0,0
Non-metallic mineral products	2,52	-0,4	-0,2	-0,3	-0,2	-0,4	-0,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	-1,0	-0,8	-1,4	-0,9	-0,4	-0,4
Basic iron and steel products	3,57	-0,4	-0,6	-0,7	-0,5	0,0	-0,3
Non-ferrous metal products	2,58	-0,1	0,0	-0,3	-0,2	-0,2	-0,1
Structural metal products	1,99	-0,1	-0,1	0,1	0,0	0,0	0,0
Other fabricated metal products	3,79	-0,3	-0,2	-0,2	-0,3	-0,2	-0,2
General purpose machinery	2,58	-0,1	0,0	0,1	0,2	0,0	0,2
Special purpose machinery	3,41	-0,1	-0,1	-0,3	-0,1	-0,1	-0,1
Household appliances	0,77	0,0	0,2	0,0	0,0	0,0	0,0
Electrical machinery	1,64	-0,1	0,0	0,0	0,0	-0,1	0,0
Radio, television and communication apparatus and professional equipment	1,54	-0,1	-0,1	-0,1	0,0	0,1	0,0
Radio, television and communication apparatus	0,90	-0,1	-0,1	-0,1	0,0	0,1	-0,1
Professional equipment	0,64	0,0	0,0	0,0	0,0	0,0	0,0
Motor vehicles, parts and accessories and other transport equipment	7,56	-0,1	0,8	0,9	-0,3	0,0	-0,8
Motor vehicles	2,82	0,2	0,3	0,4	-0,2	-0,1	-0,4
Bodies for motor vehicles, trailers and semi-trailers	0,47	0,0	0,0	0,0	0,0	0,1	0,0
Parts and accessories	3,04	-0,1	0,7	0,4	-0,1	0,1	-0,4
Other transport equipment	1,23	-0,3	-0,1	0,0	0,0	0,0	-0,1
Furniture and other manufacturing	3,11	-0,2	0,0	0,2	-0,1	-0,1	-0,3
Furniture	1,07	-0,1	-0,1	-0,1	-0,1	-0,1	-0,1
Other manufacturing groups	2,04	-0,1	0,0	0,3	0,0	0,0	-0,2
Total	100	-3,6	-0,6	-1,5	-2,4	-0,8	-3,6

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	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Month-on-month % change
Food and beverages	26,64	110,9	110,8	109,4	110,0	110,5	0,5
Meat, fish, fruit, etc.	6,69	103,8	103,4	102,5	107,8	103,4	-4,1
Dairy products	2,15	116,6	116,0	118,6	115,4	106,3	-7,9
Grain mill products	3,37	99,6	97,6	98,4	101,6	98,2	-3,3
Other food products	8,14	119,6	120,2	117,9	117,4	121,6	3,6
Beverages	6,29	111,4	111,9	108,4	105,5	111,7	5,9
Textiles, clothing, leather and footwear	3,12	89,4	90,0	84,9	83,3	79,8	-4,2
Textiles	0,78	103,0	99,5	98,1	96,7	96,7	0,0
Other textile products	0,40	88,5	91,4	85,0	90,6	89,1	-1,7
Knitted, crocheted articles	0,09	80,8	82,0	83,1	74,2	68,3	-8,0
Wearing apparel	1,04	83,3	87,1	78,7	77,0	69,1	-10,3
Leather and leather products	0,46	73,5	68,9	67,3	61,9	59,8	-3,4
Footwear	0,35	101,8	105,8	98,0	95,0	93,2	-1,9
Wood and wood products, paper, publishing and printing	11,45	95,4	93,7	93,9	93,5	89,8	-4,0
Sawmilling and planing of wood	1,73	102,9	94,7	94,6	86,3	93,7	8,6
Products of wood	2,57	99,4	100,7	97,0	98,5	96,3	-2,2
Paper and paper products	4,14	98,4	95,8	96,8	97,8	87,2	-10,8
Publishing	1,43	77,1	76,1	79,7	81,4	76,5	-6,0
Printing, recorded media	1,58	89,5	91,9	93,5	92,8	94,1	1,4
Petroleum, chemical products, rubber and plastic products	23,07	92,0	97,5	95,7	100,5	100,5	0,0
Coke, petroleum products and nuclear fuel	8,67	84,7	101,5	93,1	109,4	109,1	-0,3
Basic chemicals	4,29	91,5	90,8	97,9	90,7	91,1	0,4
Other chemical products	6,19	93,3	93,4	92,3	94,4	95,2	0,8
Rubber products	1,24	103,5	98,0	104,5	93,7	94,4	0,7
Plastic products	2,68	107,9	104,5	104,4	104,4	102,7	-1,6
Glass and non-metallic mineral products	3,18	88,8	91,5	88,1	86,5	87,1	0,7
Glass and glass products	0,66	108,1	113,3	100,7	117,2	111,8	-4,6
Non-metallic mineral products	2,52	83,8	85,8	84,8	78,5	80,6	2,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	99,1	97,5	99,4	101,5	100,1	-1,4
Basic iron and steel products	3,57	100,9	98,2	107,3	118,0	108,2	-8,3
Non-ferrous metal products	2,58	102,3	98,5	100,2	99,8	105,3	5,5
Structural metal products	1,99	88,0	90,0	88,1	88,0	87,1	-1,0
Other fabricated metal products	3,79	99,8	100,4	97,0	100,4	97,9	-2,5
General purpose machinery	2,58	97,3	99,3	100,8	94,6	99,2	4,9
Special purpose machinery	3,41	99,2	95,9	99,6	101,1	98,2	-2,9
Household appliances	0,77	110,2	98,0	94,8	95,5	100,4	5,1
Electrical machinery	1,64	81,9	83,1	80,2	78,8	80,0	1,5
Radio, television and communication apparatus and professional equipment	1,54	88,2	88,6	91,3	93,4	89,5	-4,2
Radio, television and communication apparatus	0,90	91,9	90,9	96,0	97,0	92,0	-5,2
Professional equipment	0,64	83,1	85,5	84,8	88,3	86,0	-2,6
Motor vehicles, parts and accessories and other transport equipment	7,56	113,6	115,7	96,5	108,7	100,0	-8,0
Motor vehicles	2,82	108,7	116,5	97,2	102,0	89,5	-12,3
Bodies for motor vehicles, trailers and semi-trailers	0,47	112,0	117,9	104,6	120,4	117,4	-2,5
Parts and accessories	3,04	132,6	128,3	101,7	124,7	115,6	-7,3
Other transport equipment	1,23	78,6	81,6	79,0	80,1	79,0	-1,4
Furniture and other manufacturing	3,11	95,8	102,9	94,6	96,1	93,5	-2,7
Furniture	1,07	83,9	84,2	81,2	83,9	82,0	-2,3
Other manufacturing groups	2,04	102,0	112,8	101,7	102,5	99,5	-2,9
Total	100	100,1	101,4	99,0	101,5	100,0	-1,5

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

Month	2013	2014	2015	2016	2017	2018	2019 ¹
Jan	119 905	134 022	133 473	137 588	147 728	154 687	169 331
Feb	136 157	151 015	148 453	160 923	163 040	173 909	184 231
Mar	142 449	156 523	167 441	169 906	182 917	185 238	201 129
Apr	137 911	148 251	147 271	160 631	158 360	165 218	189 590
May	146 004	153 108	158 343	173 256	179 649	191 930	199 608
Jun	143 954	161 108	163 277	177 291	183 043	191 836	199 200
Jul	151 230	150 687	163 881	170 938	174 766	193 760	202 907
Aug	148 680	161 424	161 763	177 283	186 082	201 305	211 321
Sep	145 062	168 001	172 491	184 513	188 393	204 075	204 570
Oct	161 716	181 283	178 929	183 891	197 103	220 644	222 428
Nov	167 607	176 286	179 830	195 991	213 656	225 502	221 032
Dec	144 491	152 737	155 988	163 327	173 384	182 375	
Total	1 745 166	1 894 445	1 931 140	2 055 538	2 148 121	2 290 479	

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	11,8	-0,4	3,1	7,4	4,7	9,5	9,5
Feb	10,9	-1,7	8,4	1,3	6,7	5,9	7,6
Mar	9,9	7,0	1,5	7,7	1,3	8,6	8,0
Apr	7,5	-0,7	9,1	-1,4	4,3	14,8	9,6
May	4,9	3,4	9,4	3,7	6,8	4,0	8,4
Jun	11,9	1,3	8,6	3,2	4,8	3,8	7,6
Jul	-0,4	8,8	4,3	2,2	10,9	4,7	7,1
Aug	8,6	0,2	9,6	5,0	8,2	5,0	6,8
Sep	15,8	2,7	7,0	2,1	8,3	0,2	6,0
Oct	12,1	-1,3	2,8	7,2	11,9	0,8	5,4
Nov	5,2	2,0	9,0	9,0	5,5	-2,0	4,6
Dec	5,7	2,1	4,7	6,2	5,2		
Total	8,6	1,9	6,4	4,5	6,6		

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	165 288	175 262	182 187	198 380	1,8	1,9	-1,7	1,7
Feb	168 810	173 310	185 139	196 003	2,1	-1,1	1,6	-1,2
Mar	167 711	175 685	184 767	198 521	-0,7	1,4	-0,2	1,3
Apr	170 329	176 168	176 983	204 421	1,6	0,3	-4,2	3,0
May	173 627	177 955	189 823	197 135	1,9	1,0	7,3	-3,6
Jun	173 984	178 023	188 955	200 066	0,2	0,0	-0,5	1,5
Jul	172 579	177 570	193 754	200 661	-0,8	-0,3	2,5	0,3
Aug	171 435	179 460	193 077	204 687	-0,7	1,1	-0,3	2,0
Sep	173 735	180 156	199 778	198 216	1,3	0,4	3,5	-3,2
Oct	169 841	179 494	199 569	200 898	-2,2	-0,4	-0,1	1,4
Nov	172 818	189 189	198 228	196 182	1,8	5,4	-0,7	-2,3
Dec	171 928	185 252	195 058		-0,5	-2,1	-1,6	

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

Manufacturing division and major group	Jun-19	Jul-19	Aug-19	¹ Sep-19	¹ Oct-19	¹ Nov-19
Food and beverages	43 865	45 308	48 600	47 693	52 665	53 125
Meat, fish, fruit, etc.	12 638	12 921	13 491	12 864	14 349	14 550
Dairy products	3 941	4 142	4 368	4 413	4 633	4 475
Grain mill products	6 482	7 023	6 858	6 851	7 247	7 423
Other food products	9 438	9 865	10 680	10 349	11 767	10 550
Beverages	11 366	11 358	13 203	13 217	14 669	16 127
Textiles, clothing, leather and footwear	4 887	5 278	5 419	5 222	5 837	6 030
Textiles	664	734	707	753	806	766
Other textile products	1 527	1 594	1 704	1 549	1 750	1 889
Knitted, crocheted articles	233	227	218	215	228	212
Wearing apparel	1 388	1 719	1 733	1 683	1 857	1 942
Leather and leather products	536	466	490	484	549	513
Footwear	539	537	566	538	647	707
Wood and wood products, paper, publishing and printing	14 037	13 791	13 852	15 604	15 284	15 502
Sawmilling and planing of wood	893	954	943	920	968	924
Products of wood	2 077	1 857	1 969	1 978	2 234	2 266
Paper and paper products	7 187	6 695	6 795	8 006	6 905	6 844
Publishing	1 364	1 510	1 401	1 745	1 713	1 713
Printing, recorded media	2 517	2 775	2 745	2 955	3 462	3 755
Petroleum, chemical products, rubber and plastic products	40 664	40 546	42 004	39 454	43 731	45 485
Coke, petroleum products and nuclear fuel	13 790	13 642	13 100	11 090	12 954	13 416
Basic chemicals	8 566	8 173	9 214	8 628	9 369	9 959
Other chemical products	11 226	11 030	12 067	11 912	12 795	13 454
Rubber products	1 475	1 588	1 522	1 567	1 583	1 701
Plastic products	5 607	6 113	6 101	6 256	7 030	6 956
Glass and non-metallic mineral products	5 632	5 980	6 080	5 844	6 613	6 485
Glass and glass products	943	1 068	1 090	1 106	1 362	1 319
Non-metallic mineral products	4 689	4 911	4 989	4 738	5 251	5 166
Basic iron and steel, non-ferrous metal products, metal products and machinery	47 535	47 265	47 190	46 640	50 234	48 712
Basic iron and steel products	12 376	10 016	10 255	9 700	10 822	11 112
Non-ferrous metal products	14 997	16 181	15 956	15 657	16 868	15 758
Structural metal products	3 310	3 475	3 309	3 513	3 734	3 729
Other fabricated metal products	6 224	6 968	6 877	6 383	7 264	6 985
General purpose machinery	4 205	3 972	4 291	4 223	4 336	4 280
Special purpose machinery	5 233	5 471	5 344	6 056	5 886	5 474
Household appliances	1 191	1 182	1 158	1 109	1 325	1 374
Electrical machinery	4 687	4 822	4 876	4 816	4 911	5 169
Radio, television and communication apparatus and professional equipment	1 916	2 029	2 151	2 241	2 308	2 489
Radio, television and communication apparatus	897	1 020	1 140	1 174	1 163	1 353
Professional equipment	1 019	1 009	1 012	1 067	1 144	1 136
Motor vehicles, parts and accessories and other transport equipment	28 920	30 250	33 604	29 647	32 549	29 708
Motor vehicles	17 239	17 745	20 710	17 706	19 979	17 965
Bodies for motor vehicles, trailers and semi-trailers	1 293	1 342	1 388	1 195	1 580	1 512
Parts and accessories	7 602	8 739	8 761	7 701	8 383	7 536
Other transport equipment	2 785	2 424	2 745	3 046	2 608	2 695
Furniture and other manufacturing	7 057	7 638	7 545	7 410	8 297	8 326
Furniture	1 353	1 412	1 442	1 402	1 783	1 827
Other manufacturing groups	5 704	6 225	6 103	6 007	6 513	6 499
Total	199 200	202 907	211 321	204 570	222 428	221 032

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

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

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

Manufacturing division and major group	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Month-on-month % change
Food and beverages	47 034	48 165	47 003	47 884	47 387	-1,0
Meat, fish, fruit, etc.	12 928	13 313	12 622	13 396	13 071	-2,4
Dairy products	4 343	4 338	4 385	4 261	4 251	-0,2
Grain mill products	6 735	6 776	6 814	6 839	6 830	-0,1
Other food products	9 797	10 013	10 082	10 265	9 588	-6,6
Beverages	13 231	13 725	13 101	13 123	13 647	4,0
Textiles, clothing, leather and footwear	5 144	5 129	4 965	4 989	4 876	-2,3
Textiles	712	694	707	669	653	-2,4
Other textile products	1 549	1 585	1 468	1 547	1 543	-0,3
Knitted, crocheted articles	219	216	214	209	193	-7,7
Wearing apparel	1 602	1 585	1 570	1 567	1 530	-2,4
Leather and leather products	514	495	475	477	466	-2,3
Footwear	548	554	531	520	491	-5,6
Wood and wood products, paper, publishing and printing	13 909	13 430	13 955	13 717	13 175	-4,0
Sawmilling and planing of wood	916	880	892	838	889	6,1
Products of wood	1 901	1 882	1 856	1 857	1 880	1,2
Paper and paper products	6 975	6 653	6 922	6 760	6 245	-7,6
Publishing	1 438	1 370	1 458	1 473	1 396	-5,2
Printing, recorded media	2 678	2 644	2 827	2 788	2 765	-0,8
Petroleum, chemical products, rubber and plastic products	39 578	40 624	38 698	38 854	40 153	3,3
Coke, petroleum products and nuclear fuel	12 860	12 617	11 626	12 056	12 527	3,9
Basic chemicals	8 079	9 153	8 223	8 154	8 687	6,5
Other chemical products	11 218	11 469	11 423	11 339	11 711	3,3
Rubber products	1 509	1 465	1 564	1 421	1 487	4,6
Plastic products	5 911	5 920	5 862	5 884	5 740	-2,4
Glass and non-metallic mineral products	5 616	5 622	5 592	5 528	5 508	-0,4
Glass and glass products	1 092	1 051	1 032	1 048	1 026	-2,1
Non-metallic mineral products	4 524	4 572	4 560	4 480	4 482	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	46 556	46 240	45 581	46 469	45 073	-3,0
Basic iron and steel products	10 445	10 512	9 725	10 465	10 383	-0,8
Non-ferrous metal products	16 312	15 736	15 555	15 830	14 821	-6,4
Structural metal products	3 197	3 160	3 263	3 257	3 203	-1,7
Other fabricated metal products	6 421	6 382	6 197	6 320	6 092	-3,6
General purpose machinery	3 928	4 044	4 079	3 991	3 984	-0,2
Special purpose machinery	5 065	5 232	5 653	5 426	5 408	-0,3
Household appliances	1 188	1 174	1 110	1 181	1 181	0,0
Electrical machinery	4 702	4 671	4 530	4 640	4 594	-1,0
Radio, television and communication apparatus and professional equipment	2 041	2 066	2 103	2 121	2 118	-0,1
Radio, television and communication apparatus	1 034	1 034	1 064	1 062	1 067	0,5
Professional equipment	1 007	1 032	1 039	1 059	1 051	-0,8
Motor vehicles, parts and accessories and other transport equipment	28 804	31 412	28 446	29 415	26 066	-11,4
Motor vehicles	16 959	19 485	17 139	17 858	15 438	-13,6
Bodies for motor vehicles, trailers and semi-trailers	1 230	1 313	1 171	1 335	1 307	-2,1
Parts and accessories	8 069	7 891	7 530	7 592	6 713	-11,6
Other transport equipment	2 545	2 724	2 605	2 630	2 608	-0,8
Furniture and other manufacturing	7 279	7 328	7 342	7 281	7 230	-0,7
Furniture	1 357	1 389	1 367	1 392	1 369	-1,7
Other manufacturing groups	5 922	5 938	5 975	5 889	5 861	-0,5
Total	200 661	204 687	198 216	200 898	196 182	-2,3

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 November 2019 was 73,6%. The improved collection rate for October 2019 was 84,2%.
- 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 3 081 enterprises from a population of 49 776 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 2019 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	1 961 626	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		
	2015 (based on value added for 2013 – 2015)	2016 (based on value added for 2014 – 2016)	2017 – 2019 (based on value added for 2015 – 2017)
Food and beverages	25,15	25,78	26,64
Meat, fish, fruit, etc.	6,39	6,59	6,69
Dairy products	1,89	2,00	2,15
Grain mill products	2,86	3,12	3,37
Other food products	7,62	7,74	8,14
Beverages	6,39	6,33	6,29
Textiles, clothing, leather and footwear	3,28	3,21	3,12
Textiles	0,83	0,80	0,78
Other textile products	0,41	0,41	0,40
Knitted, crocheted articles	0,09	0,09	0,09
Wearing apparel	1,10	1,08	1,04
Leather and leather products	0,49	0,48	0,46
Footwear	0,36	0,35	0,35
Wood and wood products, paper, publishing and printing	11,62	11,28	11,45
Sawmilling and planing of wood	1,71	1,69	1,73
Products of wood	2,37	2,42	2,57
Paper and paper products	4,33	4,09	4,14
Publishing	1,49	1,45	1,43
Printing, recorded media	1,72	1,63	1,58
Petroleum, chemical products, rubber and plastic products	24,01	23,82	23,07
Coke, petroleum products and nuclear fuel	9,29	9,18	8,67
Basic chemicals	4,36	4,41	4,29
Other chemical products	6,16	6,15	6,19
Rubber products	1,34	1,30	1,24
Plastic products	2,86	2,78	2,68
Glass and non-metallic mineral products	3,90	3,53	3,18
Glass and glass products	0,74	0,69	0,66
Non-metallic mineral products	3,16	2,84	2,52
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	18,74	18,69
Basic iron and steel products	3,44	3,52	3,57
Non-ferrous metal products (including precious metals)	2,73	2,60	2,58
Structural metal products	1,86	1,92	1,99
Other fabricated metal products	3,86	3,84	3,79
General purpose machinery	2,51	2,57	2,58
Special purpose machinery	3,51	3,50	3,41
Household appliances	0,81	0,79	0,77
Electrical machinery	1,65	1,63	1,64
Radio, television and communication apparatus and professional equipment	1,61	1,59	1,54
Radio, television and communication apparatus	0,93	0,92	0,90
Professional equipment	0,68	0,67	0,64
Motor vehicles, parts and accessories and other transport equipment	6,86	7,20	7,56
Motor vehicles	2,43	2,60	2,82
Bodies for motor vehicles, trailers and semi-trailers	0,46	0,48	0,47
Parts and accessories	2,76	2,89	3,04
Other transport equipment	1,21	1,23	1,23
Furniture and other manufacturing	3,20	3,22	3,11
Furniture	1,09	1,08	1,07
Other manufacturing groups	2,11	2,14	2,04
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

