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Manufacturing: Production and sales
(Preliminary)

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Production: results for December 2018

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

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

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

Manufacturing production increased by 0,1% in December 2018 compared with December 2017. The largest positive contributions were made by the following divisions:

- food and beverages (3,8% and contributing 1,1 percentage points);
- motor vehicles, parts and accessories and other transport equipment (7,0% and contributing 0,4 of a percentage point); and
- glass and non-metallic mineral products (9,7% and contributing 0,3 of a percentage point).

The largest negative contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-3,0% and contributing -0,8 of a percentage point); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (-2,8% and contributing -0,5 of a percentage point) – see Tables 5 and 6.

Seasonally adjusted manufacturing production increased by 0,7% in December 2018 compared with November 2018. This followed month-on-month changes of 0,4% in November 2018 and 1,2% in October 2018 – see Table A. The seasonally adjusted production index (base 2015=100) in December 2018 (103,8) was the highest since September 2008 (104,0).

In 2018, total manufacturing production increased by 1,2% compared with 2017. The largest contributions were made by the following divisions:

- food and beverages (4,6% and contributing 1,2 percentage points); and
- motor vehicles, parts and accessories and other transport equipment (4,9% and contributing 0,4 of a percentage point).

Seasonally adjusted manufacturing production increased by 1,2% in the fourth quarter of 2018 compared with the third quarter of 2018. Seven of the ten manufacturing divisions reported positive growth rates over this period.

The largest contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (2,3% and contributing 0,5 of a percentage point);
- motor vehicles, parts and accessories and other transport equipment (5,3% and contributing 0,4 of a percentage point); and
- food and beverages (1,2% and contributing 0,3 of a percentage point) – see Table B.

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

Manufacturing division and major group	Weights	Jul – Sep 2018	Oct – Dec 2018	% change between Jul – Sep 2018 and Oct – Dec 2018	Contribution (% points) to the total % change
Food and beverages	25,78	106,0	107,3	1,2	0,3
Meat, fish, fruit, etc.	6,59	104,6	104,6	0,0	0,0
Dairy products	2,00	105,3	106,2	0,9	0,0
Grain mill products	3,12	98,5	98,2	-0,3	0,0
Other food products	7,74	111,6	112,1	0,4	0,0
Beverages	6,33	104,3	108,9	4,4	0,3
Textiles, clothing, leather and footwear	3,21	92,1	93,7	1,7	0,1
Textiles	0,80	102,5	102,1	-0,4	0,0
Other textile products	0,41	101,8	102,8	1,0	0,0
Knitted, crocheted articles	0,09	94,9	88,4	-6,8	0,0
Wearing apparel	1,08	84,3	81,4	-3,4	0,0
Leather and leather products	0,48	84,9	89,6	5,5	0,0
Footwear	0,35	89,8	108,5	20,8	0,1
Wood and wood products, paper, publishing and printing	11,28	100,7	98,7	-2,0	-0,2
Sawmilling and planing of wood	1,69	103,7	101,4	-2,2	0,0
Products of wood	2,42	106,6	100,7	-5,5	-0,1
Paper and paper products	4,09	103,2	103,8	0,6	0,0
Publishing	1,45	87,1	80,9	-7,1	-0,1
Printing, recorded media	1,63	95,2	95,7	0,5	0,0
Petroleum, chemical products, rubber and plastic products	23,82	100,5	102,8	2,3	0,5
Coke, petroleum products and nuclear fuel	9,18	102,0	110,2	8,0	0,7
Basic chemicals	4,41	96,2	91,6	-4,8	-0,2
Other chemical products	6,15	98,3	100,3	2,0	0,1
Rubber products	1,30	100,5	93,5	-7,0	-0,1
Plastic products	2,78	107,1	106,3	-0,7	0,0
Glass and non-metallic mineral products	3,53	96,8	103,0	6,4	0,2
Glass and glass products	0,69	105,6	111,0	5,1	0,0
Non-metallic mineral products	2,84	94,8	101,2	6,8	0,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,74	104,3	102,8	-1,4	-0,3
Basic iron and steel products	3,52	118,7	116,7	-1,7	-0,1
Non-ferrous metal products	2,60	107,7	109,3	1,5	0,0
Structural metal products	1,92	90,9	83,8	-7,8	-0,1
Other fabricated metal products	3,84	105,1	103,4	-1,6	-0,1
General purpose machinery	2,57	96,1	92,8	-3,4	-0,1
Special purpose machinery	3,50	103,1	102,6	-0,5	0,0
Household appliances	0,79	89,5	95,2	6,4	0,0
Electrical machinery	1,63	82,8	82,5	-0,4	0,0
Radio, television and communication apparatus and professional equipment	1,59	92,5	94,3	1,9	0,0
Radio, television and communication apparatus	0,92	95,8	96,0	0,2	0,0
Professional equipment	0,67	88,0	92,0	4,5	0,0
Motor vehicles, parts and accessories and other transport equipment	7,20	103,8	109,3	5,3	0,4
Motor vehicles	2,60	101,8	105,5	3,6	0,1
Bodies for motor vehicles, trailers and semi-trailers	0,48	112,9	107,9	-4,4	0,0
Parts and accessories	2,89	111,5	122,9	10,2	0,3
Other transport equipment	1,23	86,8	86,7	-0,1	0,0
Furniture and other manufacturing	3,22	99,7	104,9	5,2	0,2
Furniture	1,08	90,2	89,7	-0,6	0,0
Other manufacturing groups	2,14	104,6	112,7	7,7	0,2
Total	100	102,0	103,2	1,2	1,2

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

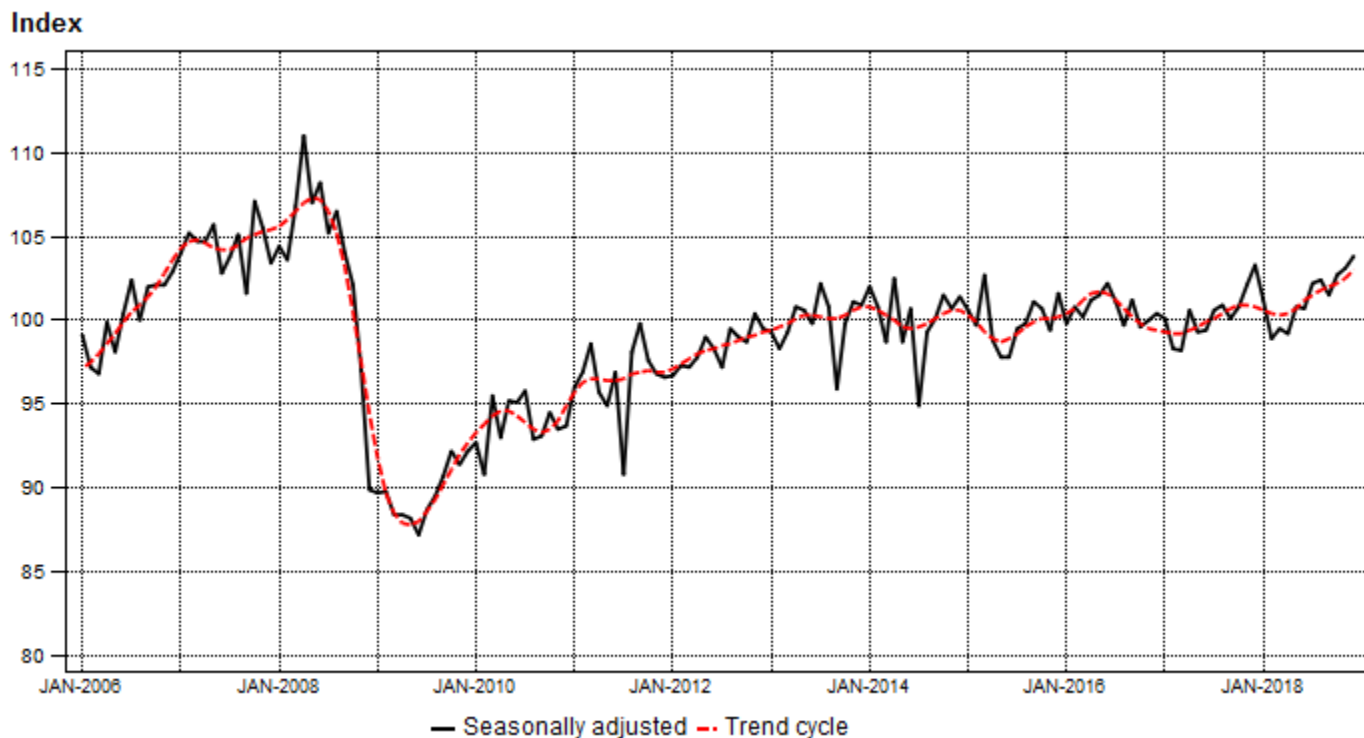
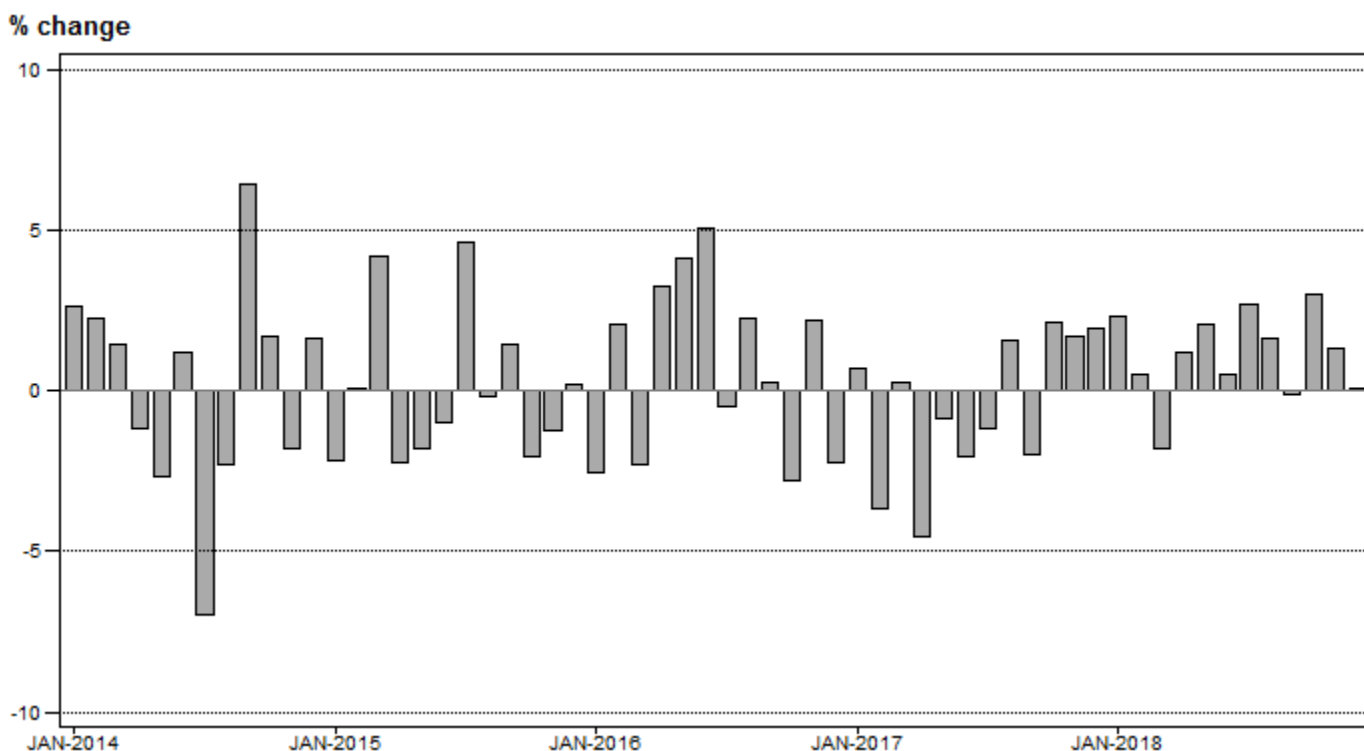


Figure 2 – Volume of manufacturing production (Base: 2015=100): year-on-year percentage change



Sales: results for December 2018**Table C – Key growth rates in manufacturing sales at current prices**

	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
Year-on-year % change, unadjusted	10,9	8,2	8,4	12,2	5,8	5,0
Month-on-month % change, seasonally adjusted	2,8	-0,1	2,8	0,5	-0,8	-1,3
3-month % change, seasonally adjusted ¹	4,8	4,4	5,5	3,6	3,8	1,4

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

Seasonally adjusted manufacturing sales decreased by 1,3% in December 2018 compared with November 2018. This followed month-on-month changes of -0,8% in November 2018 and 0,5% in October 2018 – see Table C.

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

Manufacturing division	Jul – Sep 2018 (R million)	Oct – Dec 2018 (R million)	% change between Jul – Sep 2018 and Oct – Dec 2018	Contribution (% points) to the total % change
Food and beverages	134 684	137 078	1,8	0,4
Textiles, clothing, leather and footwear	14 190	14 466	1,9	0,0
Wood and wood products, paper, publishing and printing	43 876	44 097	0,5	0,0
Petroleum, chemical products, rubber and plastic products	124 784	125 469	0,5	0,1
Glass and non-metallic mineral products	16 433	17 691	7,7	0,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	134 960	135 223	0,2	0,0
Electrical machinery	13 433	13 274	-1,2	0,0
Radio, television and communication apparatus and professional equipment	6 107	6 475	6,0	0,1
Motor vehicles, parts and accessories and other transport equipment	83 318	85 862	3,1	0,4
Furniture and other manufacturing	23 039	23 421	1,7	0,1
Total	594 823	603 053	1,4	1,4

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Tables

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

Month	2012	2013	2014	2015	2016	2017	2018 ¹
Jan	83,4	86,6	88,9	87,0	84,8	85,4	87,4
Feb	95,9	93,4	95,5	95,6	97,6	94,0	94,5
Mar	99,7	98,2	99,6	103,8	101,4	101,7	99,9
Apr	89,3	95,6	94,5	92,4	95,4	91,1	92,2
May	100,3	101,9	99,2	97,4	101,4	100,5	102,6
Jun	98,4	98,6	99,8	98,8	103,8	101,7	102,2
Jul	99,6	104,8	97,5	102,0	101,5	100,3	103,0
Aug	103,2	103,8	101,4	101,2	103,5	105,1	106,8
Sep	101,1	99,1	105,5	107,0	107,3	105,2	105,1
Oct	109,5	111,3	113,2	110,9	107,8	110,1	113,4
Nov	113,6	113,1	111,1	109,7	112,1	114,0	115,5
Dec	89,3	92,4	93,9	94,1	92,0	93,8	93,9
Total	98,6	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	2013	2014	2015	2016	2017	2018	2018 year-to-date
Jan	3,8	2,7	-2,1	-2,5	0,7	2,3	2,3
Feb	-2,6	2,2	0,1	2,1	-3,7	0,5	1,4
Mar	-1,5	1,4	4,2	-2,3	0,3	-1,8	0,2
Apr	7,1	-1,2	-2,2	3,2	-4,5	1,2	0,4
May	1,6	-2,6	-1,8	4,1	-0,9	2,1	0,8
Jun	0,2	1,2	-1,0	5,1	-2,0	0,5	0,8
Jul	5,2	-7,0	4,6	-0,5	-1,2	2,7	1,0
Aug	0,6	-2,3	-0,2	2,3	1,5	1,6	1,1
Sep	-2,0	6,5	1,4	0,3	-2,0	-0,1	1,0
Oct	1,6	1,7	-2,0	-2,8	2,1	3,0	1,2
Nov	-0,4	-1,8	-1,3	2,2	1,7	1,3	1,3
Dec	3,5	1,6	0,2	-2,2	2,0	0,1	1,2
Total	1,3	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			
	2015	2016	2017	2018	2015	2016	2017	2018
Jan	100,6	99,8	100,1	101,2	-0,8	-1,8	-0,3	-2,0
Feb	99,7	100,8	98,3	98,9	-0,9	1,0	-1,8	-2,3
Mar	102,7	100,2	98,2	99,5	3,0	-0,6	-0,1	0,6
Apr	98,8	101,2	100,6	99,2	-3,8	1,0	2,4	-0,3
May	97,8	101,5	99,3	100,8	-1,0	0,3	-1,3	1,6
Jun	97,8	102,2	99,4	100,7	0,0	0,7	0,1	-0,1
Jul	99,5	101,1	100,6	102,2	1,7	-1,1	1,2	1,5
Aug	99,8	99,7	100,9	102,4	0,3	-1,4	0,3	0,2
Sep	101,1	101,2	100,1	101,5	1,3	1,5	-0,8	-0,9
Oct	100,7	99,6	100,8	102,7	-0,4	-1,6	0,7	1,2
Nov	99,4	100,0	102,1	103,1	-1,3	0,4	1,3	0,4
Dec	101,6	100,4	103,3	103,8	2,2	0,4	1,2	0,7

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

Manufacturing division and major group	Weights	Jul-18	Aug-18	Sep-18	¹ Oct-18	¹ Nov-18	¹ Dec-18
Food and beverages	25,78	104,2	110,8	109,5	118,1	121,5	112,6
Meat, fish, fruit, etc.	6,59	102,0	106,8	105,5	109,8	114,6	109,8
Dairy products	2,00	97,0	107,8	107,9	114,1	121,5	110,4
Grain mill products	3,12	99,9	100,7	97,9	103,2	108,7	97,4
Other food products	7,74	122,8	127,9	119,6	126,0	125,0	98,9
Beverages	6,33	88,0	100,0	107,6	125,6	130,9	140,5
Textiles, clothing, leather and footwear	3,21	94,5	96,6	94,9	110,3	112,0	75,6
Textiles	0,80	110,5	102,8	101,7	118,6	119,1	62,8
Other textile products	0,41	102,5	108,1	106,1	118,1	123,8	74,7
Knitted, crocheted articles	0,09	100,4	96,8	94,9	96,7	97,9	58,1
Wearing apparel	1,08	95,5	90,8	88,9	100,0	103,0	72,8
Leather and leather products	0,48	68,7	87,7	85,8	97,5	88,7	92,2
Footwear	0,35	79,2	98,4	96,9	134,5	145,5	96,0
Wood and wood products, paper, publishing and printing	11,28	101,5	104,6	109,1	111,7	113,8	86,9
Sawmilling and planing of wood	1,69	111,8	110,7	99,4	116,2	105,8	75,4
Products of wood	2,42	107,0	108,3	117,9	122,2	118,6	74,7
Paper and paper products	4,09	98,2	107,0	116,4	107,1	113,6	102,2
Publishing	1,45	91,8	92,5	94,8	96,2	101,4	77,1
Printing, recorded media	1,63	99,6	97,8	100,2	117,0	126,7	86,9
Petroleum, chemical products, rubber and plastic products	23,82	100,8	105,1	99,5	108,6	112,0	97,5
Coke, petroleum products and nuclear fuel	9,18	102,1	105,0	98,8	106,6	110,9	113,1
Basic chemicals	4,41	97,8	104,4	90,4	103,5	101,4	85,7
Other chemical products	6,15	96,5	103,7	101,5	107,8	114,7	96,0
Rubber products	1,30	108,0	101,8	98,5	109,1	105,2	50,3
Plastic products	2,78	107,5	111,3	112,7	125,0	129,8	90,5
Glass and non-metallic mineral products	3,53	104,0	105,9	100,3	115,5	118,4	81,4
Glass and glass products	0,69	106,1	116,4	113,5	122,6	130,3	108,5
Non-metallic mineral products	2,84	103,5	103,3	97,1	113,8	115,5	74,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,74	105,2	107,9	108,0	113,9	109,9	84,7
Basic iron and steel products	3,52	108,0	112,6	123,6	125,1	119,2	97,1
Non-ferrous metal products	2,60	102,7	114,6	108,4	115,2	109,3	101,4
Structural metal products	1,92	100,7	92,0	94,6	97,6	100,1	57,8
Other fabricated metal products	3,84	112,0	113,6	108,3	119,3	116,8	72,8
General purpose machinery	2,57	100,8	101,5	96,8	106,1	102,2	80,7
Special purpose machinery	3,50	107,4	108,3	111,1	112,7	105,2	92,5
Household appliances	0,79	84,6	95,0	90,0	103,1	105,7	77,1
Electrical machinery	1,63	84,3	88,9	88,1	92,5	91,8	61,8
Radio, television and communication apparatus and professional equipment	1,59	95,4	97,9	95,9	99,8	112,3	100,6
Radio, television and communication apparatus	0,92	98,8	107,0	103,4	102,9	118,1	106,3
Professional equipment	0,67	90,7	85,3	85,6	95,5	104,3	92,7
Motor vehicles, parts and accessories and other transport equipment	7,20	111,6	112,3	106,3	119,0	122,9	71,8
Motor vehicles	2,60	114,7	115,7	107,1	123,6	118,4	55,3
Bodies for motor vehicles, trailers and semi-trailers	0,48	119,4	117,6	118,4	122,6	130,9	73,4
Parts and accessories	2,89	118,4	119,7	109,5	129,5	140,3	78,7
Other transport equipment	1,23	86,3	85,6	92,5	83,4	88,3	89,7
Furniture and other manufacturing	3,22	104,8	100,1	105,3	119,2	128,9	89,8
Furniture	1,08	93,1	94,9	96,3	111,7	120,1	78,3
Other manufacturing groups	2,14	110,8	102,7	109,9	122,9	133,4	95,6
Total	100	103,0	106,8	105,1	113,4	115,5	93,9

¹ The latest three months are preliminary.

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

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

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

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

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

Manufacturing division and major group	Weights	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Month-on-month % change
Food and beverages	25,78	105,4	106,3	106,2	108,4	107,4	-0,9
Meat, fish, fruit, etc.	6,59	104,6	105,4	104,9	105,0	103,8	-1,1
Dairy products	2,00	105,6	106,2	103,5	109,9	105,1	-4,4
Grain mill products	3,12	98,1	99,0	98,7	98,4	97,5	-0,9
Other food products	7,74	110,3	110,5	109,3	114,8	112,1	-2,4
Beverages	6,33	103,5	105,4	108,0	108,4	110,4	1,8
Textiles, clothing, leather and footwear	3,21	92,7	91,1	93,0	92,0	96,0	4,3
Textiles	0,80	100,0	99,0	103,2	102,2	101,0	-1,2
Other textile products	0,41	102,8	102,0	103,4	102,1	103,0	0,9
Knitted, crocheted articles	0,09	98,0	92,7	88,9	88,4	88,0	-0,5
Wearing apparel	1,08	84,9	82,3	81,5	80,4	82,4	2,5
Leather and leather products	0,48	87,9	85,3	86,4	84,1	98,2	16,8
Footwear	0,35	94,1	94,7	103,4	104,4	117,6	12,6
Wood and wood products, paper, publishing and printing	11,28	101,1	100,6	100,7	98,8	96,5	-2,3
Sawmilling and planing of wood	1,69	106,4	100,2	103,2	101,3	99,7	-1,6
Products of wood	2,42	103,0	111,2	103,9	99,5	98,6	-0,9
Paper and paper products	4,09	105,5	102,7	105,5	103,8	102,1	-1,6
Publishing	1,45	86,1	84,5	83,5	81,9	77,3	-5,6
Printing, recorded media	1,63	95,1	94,8	96,8	97,1	93,2	-4,0
Petroleum, chemical products, rubber and plastic products	23,82	102,3	98,6	100,6	102,9	105,0	2,0
Coke, petroleum products and nuclear fuel	9,18	105,0	98,8	106,6	110,9	113,1	2,0
Basic chemicals	4,41	100,6	91,8	90,5	90,1	94,2	4,6
Other chemical products	6,15	97,9	99,0	97,7	100,0	103,1	3,1
Rubber products	1,30	99,6	98,5	95,4	95,5	89,6	-6,2
Plastic products	2,78	106,7	107,6	105,6	106,5	106,7	0,2
Glass and non-metallic mineral products	3,53	98,2	95,1	100,2	101,2	107,7	6,4
Glass and glass products	0,69	108,2	104,3	108,0	110,8	114,2	3,1
Non-metallic mineral products	2,84	95,9	92,9	98,4	99,0	106,2	7,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,74	104,4	104,9	104,8	101,8	101,9	0,1
Basic iron and steel products	3,52	117,5	123,8	119,7	117,4	113,0	-3,7
Non-ferrous metal products	2,60	109,7	109,8	109,9	107,9	110,0	1,9
Structural metal products	1,92	87,5	89,1	88,0	82,9	80,5	-2,9
Other fabricated metal products	3,84	105,7	104,0	104,2	102,2	103,8	1,6
General purpose machinery	2,57	95,9	93,4	94,1	92,4	91,9	-0,5
Special purpose machinery	3,50	103,3	104,0	105,8	99,8	102,1	2,3
Household appliances	0,79	93,7	88,1	94,3	94,1	97,1	3,2
Electrical machinery	1,63	84,4	82,6	85,3	79,9	82,4	3,1
Radio, television and communication apparatus and professional equipment	1,59	93,7	89,1	91,3	93,3	98,4	5,5
Radio, television and communication apparatus	0,92	96,3	94,2	91,8	94,8	101,5	7,1
Professional equipment	0,67	90,1	82,3	90,7	91,2	94,1	3,2
Motor vehicles, parts and accessories and other transport equipment	7,20	103,1	102,3	109,3	108,8	109,8	0,9
Motor vehicles	2,60	100,4	102,4	110,2	101,4	105,0	3,6
Bodies for motor vehicles, trailers and semi-trailers	0,48	105,4	119,2	108,0	106,8	108,8	1,9
Parts and accessories	2,89	112,3	109,4	119,0	125,2	124,4	-0,6
Other transport equipment	1,23	86,9	79,4	86,0	87,1	86,9	-0,2
Furniture and other manufacturing	3,22	98,5	100,2	100,7	105,9	108,2	2,2
Furniture	1,08	90,6	89,6	89,0	89,3	90,9	1,8
Other manufacturing groups	2,14	102,6	105,6	106,8	114,4	117,0	2,3
Total	100	102,4	101,5	102,7	103,1	103,8	0,7

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

Month	2012	2013	2014	2015	2016	2017	2018 ¹
Jan	111 924	121 436	135 677	135 105	139 194	149 598	156 736
Feb	131 506	137 860	152 891	150 297	162 804	165 159	176 201
Mar	139 729	144 166	158 596	169 510	171 979	185 331	187 729
Apr	122 963	139 563	150 136	149 096	162 622	160 348	167 504
May	136 472	147 760	154 928	160 228	175 473	182 017	194 480
Jun	137 003	145 708	163 114	165 325	179 564	185 638	194 615
Jul	133 816	153 100	152 581	165 809	173 159	177 157	196 533
Aug	140 977	150 611	163 460	163 742	179 525	188 712	204 207
Sep	138 136	146 841	170 204	174 697	186 940	191 032	207 070
Oct	151 341	163 656	183 528	181 093	186 342	199 764	224 053
Nov	160 507	169 622	178 453	181 957	198 464	216 510	229 015
Dec	129 139	146 427	154 776	158 052	165 556	175 770	184 626
Total	1 633 513	1 766 750	1 918 344	1 954 911	2 081 622	2 177 036	2 322 769

¹ The latest three months are preliminary.

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

Month	2013	2014	2015	2016	2017	2018	2018 year-to-date
Jan	8,5	11,7	-0,4	3,0	7,5	4,8	4,8
Feb	4,8	10,9	-1,7	8,3	1,4	6,7	5,8
Mar	3,2	10,0	6,9	1,5	7,8	1,3	4,1
Apr	13,5	7,6	-0,7	9,1	-1,4	4,5	4,2
May	8,3	4,9	3,4	9,5	3,7	6,8	4,8
Jun	6,4	11,9	1,4	8,6	3,4	4,8	4,8
Jul	14,4	-0,3	8,7	4,4	2,3	10,9	5,7
Aug	6,8	8,5	0,2	9,6	5,1	8,2	6,0
Sep	6,3	15,9	2,6	7,0	2,2	8,4	6,3
Oct	8,1	12,1	-1,3	2,9	7,2	12,2	7,0
Nov	5,7	5,2	2,0	9,1	9,1	5,8	6,8
Dec	13,4	5,7	2,1	4,7	6,2	5,0	6,7
Total	8,2	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			
	2015	2016	2017	2018	2015	2016	2017	2018
Jan	159 647	167 210	177 743	184 798	-2,1	1,2	1,4	-2,0
Feb	157 748	170 524	174 712	186 407	-1,2	2,0	-1,7	0,9
Mar	165 049	169 694	177 035	187 080	4,6	-0,5	1,3	0,4
Apr	161 069	172 605	179 276	180 273	-2,4	1,7	1,3	-3,6
May	161 800	175 978	180 186	192 248	0,5	2,0	0,5	6,6
Jun	161 523	175 968	180 307	191 228	-0,2	0,0	0,1	-0,5
Jul	163 790	174 660	180 109	196 599	1,4	-0,7	-0,1	2,8
Aug	162 962	173 730	182 583	196 402	-0,5	-0,5	1,4	-0,1
Sep	165 469	175 818	182 157	201 822	1,5	1,2	-0,2	2,8
Oct	164 415	172 133	182 058	202 926	-0,6	-2,1	-0,1	0,5
Nov	162 699	174 844	191 697	201 395	-1,0	1,6	5,3	-0,8
Dec	165 263	175 237	188 498	198 732	1,6	0,2	-1,7	-1,3

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

Manufacturing division and major group	Jul-18	Aug-18	Sep-18	¹ Oct-18	¹ Nov-18	¹ Dec-18
Food and beverages	42 015	46 768	45 224	49 990	52 261	51 844
Meat, fish, fruit, etc.	12 073	12 636	12 796	13 462	14 556	13 871
Dairy products	3 624	3 893	3 873	4 326	4 188	4 110
Grain mill products	6 245	6 370	6 165	6 717	7 046	6 324
Other food products	9 588	11 635	9 420	10 513	10 568	9 409
Beverages	10 485	12 233	12 969	14 971	15 902	18 130
Textiles, clothing, leather and footwear	4 745	4 968	4 917	5 611	5 909	4 077
Textiles	610	611	617	708	716	389
Other textile products	1 392	1 458	1 433	1 574	1 665	1 055
Knitted, crocheted articles	232	223	214	239	234	138
Wearing apparel	1 570	1 634	1 593	1 784	1 884	1 342
Leather and leather products	514	586	604	696	707	589
Footwear	428	456	456	610	702	565
Wood and wood products, paper, publishing and printing	14 264	15 265	16 239	16 459	17 148	13 588
Sawmilling and planing of wood	1 038	1 088	976	1 190	1 054	655
Products of wood	2 055	2 233	2 405	2 526	2 414	1 519
Paper and paper products	6 571	7 443	8 098	7 476	7 951	7 281
Publishing	1 785	1 775	1 887	1 913	2 027	1 545
Printing, recorded media	2 816	2 725	2 874	3 355	3 702	2 588
Petroleum, chemical products, rubber and plastic products	42 282	42 780	42 797	47 694	46 821	39 497
Coke, petroleum products and nuclear fuel	15 167	14 634	14 429	16 021	14 748	14 369
Basic chemicals	8 625	8 859	8 705	9 979	9 753	7 536
Other chemical products	11 396	11 874	12 146	13 199	13 647	11 591
Rubber products	1 414	1 418	1 403	1 543	1 616	1 015
Plastic products	5 681	5 994	6 115	6 953	7 057	4 985
Glass and non-metallic mineral products	5 805	5 963	5 676	6 832	6 923	4 545
Glass and glass products	887	984	1 008	1 222	1 322	940
Non-metallic mineral products	4 918	4 979	4 668	5 610	5 601	3 605
Basic iron and steel, non-ferrous metal products, metal products and machinery	45 261	45 529	46 047	48 336	48 929	38 945
Basic iron and steel products	12 082	11 507	12 808	11 637	12 588	9 286
Non-ferrous metal products	12 142	12 762	12 647	14 182	14 338	13 638
Structural metal products	3 255	3 159	3 135	3 326	3 430	1 965
Other fabricated metal products	7 021	7 265	6 780	7 686	7 676	4 869
General purpose machinery	3 659	3 717	3 569	3 963	3 751	2 981
Special purpose machinery	5 964	5 951	5 920	6 212	5 740	5 211
Household appliances	1 138	1 168	1 188	1 330	1 406	994
Electrical machinery	4 502	4 744	4 818	4 784	5 020	3 344
Radio, television and communication apparatus and professional equipment	2 072	2 163	2 125	2 206	2 511	2 464
Radio, television and communication apparatus	1 159	1 284	1 251	1 250	1 474	1 484
Professional equipment	913	878	874	955	1 037	981
Motor vehicles, parts and accessories and other transport equipment	27 610	27 905	31 642	33 460	34 409	18 924
Motor vehicles	15 729	15 501	19 257	20 524	21 060	10 411
Bodies for motor vehicles, trailers and semi-trailers	1 204	1 217	1 096	1 344	1 333	756
Parts and accessories	7 839	8 355	8 212	8 778	9 030	4 751
Other transport equipment	2 837	2 831	3 077	2 814	2 987	3 006
Furniture and other manufacturing	7 977	8 124	7 584	8 681	9 084	7 397
Furniture	1 379	1 418	1 371	1 707	1 785	1 182
Other manufacturing groups	6 598	6 706	6 213	6 974	7 299	6 216
Total	196 533	204 207	207 070	224 053	229 015	184 626

¹ The latest three months are preliminary.

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

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

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

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

Manufacturing division and major group	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Month-on-month % change
Food and beverages	45 782	44 793	45 656	45 798	45 624	-0,4
Meat, fish, fruit, etc.	12 455	12 704	12 651	12 948	12 705	-1,9
Dairy products	3 881	3 852	3 940	3 913	3 806	-2,7
Grain mill products	6 143	6 262	6 308	6 364	6 306	-0,9
Other food products	10 815	9 258	9 508	9 335	9 720	4,1
Beverages	12 487	12 718	13 248	13 237	13 087	-1,1
Textiles, clothing, leather and footwear	4 713	4 760	4 815	4 770	4 881	2,3
Textiles	596	600	594	596	613	2,9
Other textile products	1 360	1 392	1 388	1 368	1 382	1,0
Knitted, crocheted articles	220	217	218	201	195	-3,0
Wearing apparel	1 515	1 490	1 507	1 464	1 462	-0,1
Leather and leather products	568	598	619	644	659	2,3
Footwear	453	463	489	496	569	14,7
Wood and wood products, paper, publishing and printing	14 695	14 666	14 974	14 689	14 434	-1,7
Sawmilling and planing of wood	1 018	943	1 014	1 040	756	-27,3
Products of wood	2 117	2 196	2 087	2 026	2 002	-1,2
Paper and paper products	7 222	7 116	7 456	7 314	7 341	0,4
Publishing	1 686	1 646	1 650	1 603	1 549	-3,4
Printing, recorded media	2 652	2 765	2 767	2 705	2 786	3,0
Petroleum, chemical products, rubber and plastic products	40 947	41 981	42 431	41 170	41 868	1,7
Coke, petroleum products and nuclear fuel	14 146	14 867	14 915	13 868	13 799	-0,5
Basic chemicals	8 477	8 363	8 451	8 371	8 468	1,2
Other chemical products	11 192	11 519	11 884	11 831	12 489	5,6
Rubber products	1 366	1 402	1 398	1 404	1 358	-3,3
Plastic products	5 767	5 830	5 783	5 696	5 755	1,0
Glass and non-metallic mineral products	5 479	5 405	5 812	5 741	6 138	6,9
Glass and glass products	920	915	954	994	1 019	2,5
Non-metallic mineral products	4 559	4 490	4 859	4 747	5 119	7,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	44 591	45 171	44 837	45 037	45 349	0,7
Basic iron and steel products	11 790	12 544	11 292	11 996	11 995	0,0
Non-ferrous metal products	12 739	12 588	13 409	13 612	13 816	1,5
Structural metal products	2 968	2 968	2 992	2 833	2 719	-4,0
Other fabricated metal products	6 699	6 554	6 721	6 509	6 714	3,1
General purpose machinery	3 527	3 469	3 589	3 421	3 322	-2,9
Special purpose machinery	5 691	5 867	5 646	5 468	5 552	1,5
Household appliances	1 178	1 180	1 188	1 196	1 231	2,9
Electrical machinery	4 564	4 463	4 566	4 410	4 298	-2,5
Radio, television and communication apparatus and professional equipment	2 050	1 977	2 039	2 078	2 358	13,5
Radio, television and communication apparatus	1 148	1 130	1 122	1 158	1 403	21,2
Professional equipment	901	846	917	920	954	3,7
Motor vehicles, parts and accessories and other transport equipment	25 835	31 106	30 160	29 778	25 924	-12,9
Motor vehicles	14 260	19 077	18 064	17 911	14 258	-20,4
Bodies for motor vehicles, trailers and semi-trailers	1 096	1 118	1 123	1 081	1 061	-1,9
Parts and accessories	7 632	8 204	8 084	7 904	7 654	-3,2
Other transport equipment	2 847	2 708	2 888	2 881	2 951	2,4
Furniture and other manufacturing	7 746	7 500	7 636	7 925	7 860	-0,8
Furniture	1 339	1 329	1 320	1 326	1 363	2,8
Other manufacturing groups	6 407	6 171	6 316	6 598	6 497	-1,5
Total	196 402	201 822	202 926	201 395	198 732	-1,3

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 December 2018 was 88,4%. The improved collection rate for November 2018 was 88,4%.
- 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 2018	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 – 2018 (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

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