

STATISTICAL RELEASE

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Manufacturing: Production and sales (Preliminary)

June 2018

The results published in the next publication (July 2018) will be based on a new sample. This is an annual procedure which typically affects the level of sales. To avoid breaks in time series and to minimise revisions to historical growth rates, historical sales levels will be revised (i.e. they will be linked to the estimates based on the new sample).

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Production: results for June 2018

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

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Year-on-year % change, unadjusted	2,3	0,5	-1,8	1,0	2,0	0,7
Month-on-month % change, seasonally adjusted	-1,8	-2,4	0,6	-0,7	1,3	0,3
3-month % change, seasonally adjusted ¹	1,7	0,2	-2,2	-3,0	-1,6	-0,1

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

Manufacturing production increased by 0,7% in June 2018 compared with June 2017. The largest positive contributions were made by the following divisions:

- food and beverages (4,3% and contributing 1,1 percentage points); and
- petroleum, chemicals, rubber and plastic products (1,7% and contributing 0,4 of a percentage point).

The largest negative contributions in June 2018 compared with June 2017 were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (-3,3% and contributing -0,3 of a percentage point);
- wood and wood products, paper, publishing and printing (-1,5% and contributing -0,2 of a percentage point); and
- radio, television and communication apparatus and professional equipment (-9,8% and contributing -0,2 of a percentage point) – see Tables 5 and 6.

Seasonally adjusted manufacturing production increased by 0,3% in June 2018 compared with May 2018. This followed month-on-month changes of 1,3% in May 2018 and -0,7% in April 2018 – see Table A.

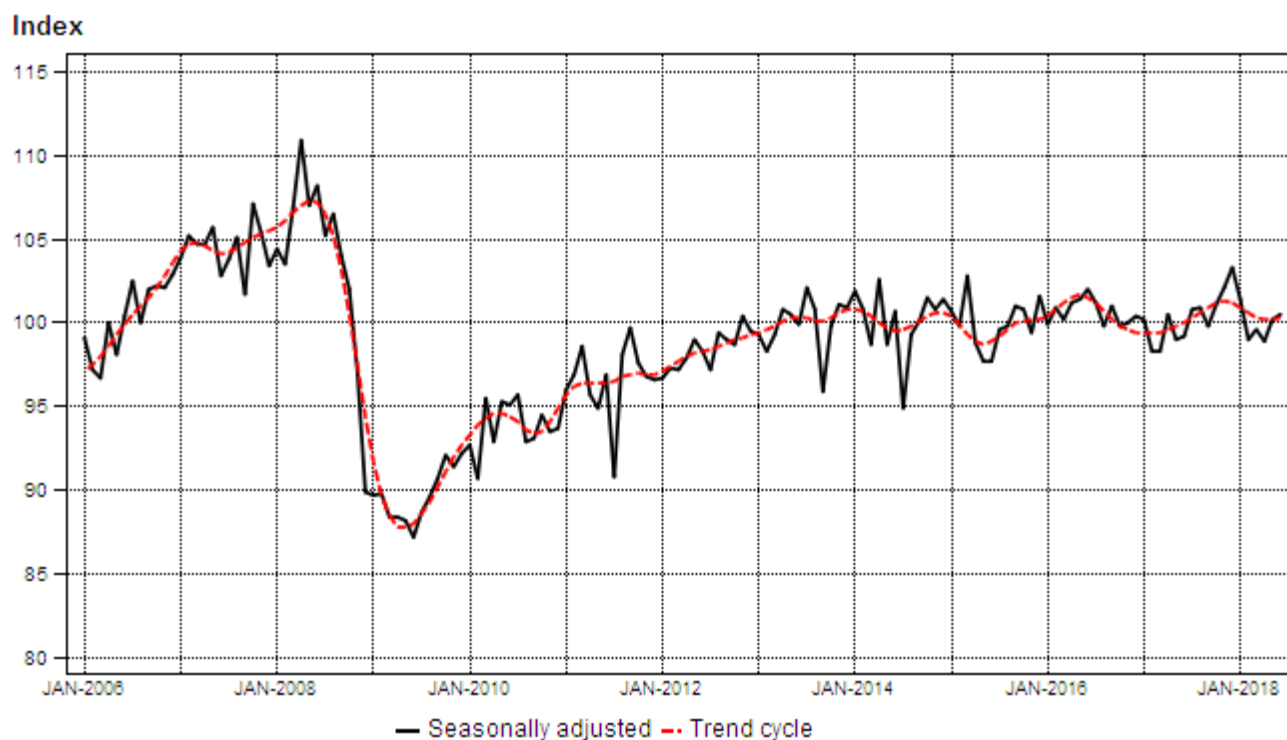
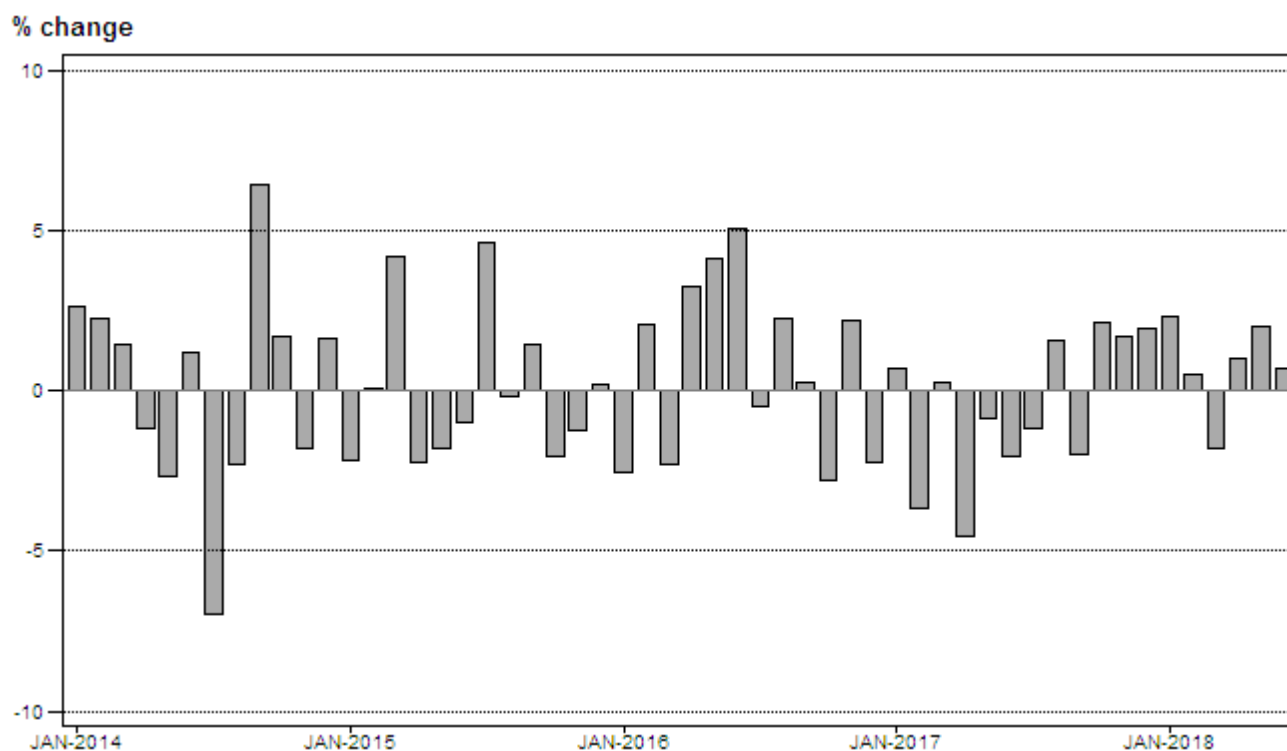
Seasonally adjusted manufacturing production decreased by 0,1% in the second quarter of 2018 compared with the first quarter of 2018. Seven of the ten manufacturing divisions reported negative growth rates over this period.

The largest negative contributions to the 0,1% decrease in the second quarter of 2018 were made by the motor vehicles, parts and accessories and other transport equipment division (-4,0% and contributing -0,3 of a percentage point) and the furniture and 'other' manufacturing division (-9,2% and contributing -0,3 of a percentage point).

The largest positive contribution in the second quarter of 2018 compared with the first quarter of 2018 was made by the petroleum, chemicals, rubber and plastic products division (2,7% and contributing 0,6 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	Jan – Mar 2018	Apr – Jun 2018	% change between Jan – Mar 2018 and Apr – Jun 2018	Contribution (% points) to the total % change
Food and beverages	25,78	105,2	105,6	0,4	0,1
Meat, fish, fruit, etc.	6,59	102,5	101,0	-1,5	-0,1
Dairy products	2,00	104,2	103,2	-1,0	0,0
Grain mill products	3,12	99,7	97,6	-2,1	-0,1
Other food products	7,74	112,3	115,2	2,6	0,2
Beverages	6,33	102,0	102,8	0,8	0,1
Textiles, clothing, leather and footwear	3,21	91,3	91,0	-0,3	0,0
Textiles	0,80	98,8	103,2	4,5	0,0
Other textile products	0,41	99,4	102,0	2,6	0,0
Knitted, crocheted articles	0,09	96,0	96,5	0,5	0,0
Wearing apparel	1,08	86,3	83,1	-3,7	0,0
Leather and leather products	0,48	83,3	81,4	-2,3	0,0
Footwear	0,35	90,5	86,6	-4,3	0,0
Wood and wood products, paper, publishing and printing	11,28	96,7	96,5	-0,2	0,0
Sawmilling and planing of wood	1,69	108,4	103,9	-4,2	-0,1
Products of wood	2,42	100,8	103,8	3,0	0,1
Paper and paper products	4,09	95,8	95,6	-0,2	0,0
Publishing	1,45	82,7	83,1	0,5	0,0
Printing, recorded media	1,63	93,7	93,2	-0,5	0,0
Petroleum, chemical products, rubber and plastic products	23,82	95,7	98,3	2,7	0,6
Coke, petroleum products and nuclear fuel	9,18	89,8	97,2	8,2	0,7
Basic chemicals	4,41	102,7	102,5	-0,2	0,0
Other chemical products	6,15	96,6	95,2	-1,4	-0,1
Rubber products	1,30	97,5	95,9	-1,6	0,0
Plastic products	2,78	101,6	102,8	1,2	0,0
Glass and non-metallic mineral products	3,53	99,0	96,1	-2,9	-0,1
Glass and glass products	0,69	105,7	108,7	2,8	0,0
Non-metallic mineral products	2,84	97,4	93,2	-4,3	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,74	101,4	101,5	0,1	0,0
Basic iron and steel products	3,52	113,8	113,4	-0,4	0,0
Non-ferrous metal products	2,60	105,4	103,5	-1,8	0,0
Structural metal products	1,92	82,8	87,1	5,2	0,1
Other fabricated metal products	3,84	103,3	105,3	1,9	0,1
General purpose machinery	2,57	97,3	97,9	0,6	0,0
Special purpose machinery	3,50	98,4	96,4	-2,0	-0,1
Household appliances	0,79	94,3	91,7	-2,8	0,0
Electrical machinery	1,63	88,3	84,3	-4,5	-0,1
Radio, television and communication apparatus and professional equipment	1,59	97,7	95,4	-2,4	0,0
Radio, television and communication apparatus	0,92	101,6	101,2	-0,4	0,0
Professional equipment	0,67	92,4	87,7	-5,1	0,0
Motor vehicles, parts and accessories and other transport equipment	7,20	104,2	100,0	-4,0	-0,3
Motor vehicles	2,60	95,9	92,1	-4,0	-0,1
Bodies for motor vehicles, trailers and semi-trailers	0,48	114,2	107,7	-5,7	0,0
Parts and accessories	2,89	114,0	110,2	-3,3	-0,1
Other transport equipment	1,23	94,9	89,6	-5,6	-0,1
Furniture and other manufacturing	3,22	103,7	94,2	-9,2	-0,3
Furniture	1,08	98,3	96,6	-1,7	0,0
Other manufacturing groups	2,14	106,5	93,0	-12,7	-0,3
Total	100	100,0	99,9	-0,1	-0,1

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 June 2018**Table C – Key growth rates in manufacturing sales at current prices**

	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18
Year-on-year % change, unadjusted	4,7	6,6	1,3	4,3	6,7	5,3
Month-on-month % change, seasonally adjusted	-1,7	0,9	0,3	-3,7	6,2	-0,1
3-month % change, seasonally adjusted ¹	3,0	0,0	-1,2	-2,1	-0,1	0,8

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

Seasonally adjusted manufacturing sales decreased by 0,1% in June 2018 compared with May 2018. This followed month-on-month changes of 6,2% in May 2018 and -3,7% in April 2018 – see Table C.

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

Manufacturing division	Jan – Mar 2018 (R million)	Apr – Jun 2018 (R million)	% change between Jan – Mar 2018 and Apr – Jun 2018	Contribution (% points) to the total % change
Food and beverages	131 823	134 447	2,0	0,5
Textiles, clothing, leather and footwear	14 088	13 999	-0,6	0,0
Wood and wood products, paper, publishing and printing	39 236	39 978	1,9	0,1
Petroleum, chemical products, rubber and plastic products	116 273	116 044	-0,2	0,0
Glass and non-metallic mineral products	16 789	16 266	-3,1	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	118 843	118 456	-0,3	-0,1
Electrical machinery	13 672	13 770	0,7	0,0
Radio, television and communication apparatus and professional equipment	6 491	6 576	1,3	0,0
Motor vehicles, parts and accessories and other transport equipment	73 410	75 212	2,5	0,3
Furniture and other manufacturing	21 055	21 346	1,4	0,1
Total	551 679	556 093	0,8	0,8

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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	92,0
May	100,3	101,9	99,2	97,4	101,4	100,5	102,5
Jun	98,4	98,6	99,8	98,8	103,8	101,7	102,4
Jul	99,6	104,8	97,5	102,0	101,5	100,3	
Aug	103,2	103,8	101,4	101,2	103,5	105,1	
Sep	101,1	99,1	105,5	107,0	107,3	105,2	
Oct	109,5	111,3	113,2	110,9	107,8	110,1	
Nov	113,6	113,1	111,1	109,7	112,1	114,0	
Dec	89,3	92,4	93,9	94,1	92,0	93,8	
Total	98,6	99,9	100,0	100,0	100,7	100,2	

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	1,0	0,4
May	1,6	-2,6	-1,8	4,1	-0,9	2,0	0,8
Jun	0,2	1,2	-1,0	5,1	-2,0	0,7	0,8
Jul	5,2	-7,0	4,6	-0,5	-1,2		
Aug	0,6	-2,3	-0,2	2,3	1,5		
Sep	-2,0	6,5	1,4	0,3	-2,0		
Oct	1,6	1,7	-2,0	-2,8	2,1		
Nov	-0,4	-1,8	-1,3	2,2	1,7		
Dec	3,5	1,6	0,2	-2,2	2,0		
Total	1,3	0,1	0,0	0,7	-0,5		

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	100,7	99,9	100,2	101,4	-0,7	-1,7	-0,2	-1,8
Feb	99,8	100,9	98,3	99,0	-0,9	1,0	-1,9	-2,4
Mar	102,8	100,2	98,3	99,6	3,0	-0,7	0,0	0,6
Apr	98,8	101,2	100,5	98,9	-3,9	1,0	2,2	-0,7
May	97,7	101,4	99,0	100,2	-1,1	0,2	-1,5	1,3
Jun	97,7	102,0	99,2	100,5	0,0	0,6	0,2	0,3
Jul	99,6	101,2	100,8		1,9	-0,8	1,6	
Aug	99,8	99,8	100,9		0,2	-1,4	0,1	
Sep	101,0	101,0	99,8		1,2	1,2	-1,1	
Oct	100,8	99,8	101,1		-0,2	-1,2	1,3	
Nov	99,4	100,0	102,1		-1,4	0,2	1,0	
Dec	101,6	100,4	103,3		2,2	0,4	1,2	

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

Manufacturing division and major group	Weights	Jan-18	Feb-18	Mar-18	¹ Apr-18	¹ May-18	¹ Jun-18
Food and beverages	25,78	90,5	92,6	101,7	97,5	106,3	106,4
Meat, fish, fruit, etc.	6,59	93,0	93,7	101,0	94,2	106,3	104,2
Dairy products	2,00	100,4	97,2	108,0	97,4	95,8	93,6
Grain mill products	3,12	90,0	90,4	101,9	93,9	99,2	99,1
Other food products	7,74	86,2	90,7	96,7	108,9	121,4	126,6
Beverages	6,33	90,1	93,3	106,3	88,7	94,8	91,5
Textiles, clothing, leather and footwear	3,21	69,6	90,9	91,8	88,8	91,9	90,6
Textiles	0,80	75,5	105,3	105,2	101,1	111,4	108,6
Other textile products	0,41	72,1	101,1	103,6	98,8	106,8	105,8
Knitted, crocheted articles	0,09	72,4	97,0	102,7	101,4	104,6	96,7
Wearing apparel	1,08	55,8	81,6	83,7	79,8	78,4	77,6
Leather and leather products	0,48	82,1	82,9	77,7	84,4	83,2	86,0
Footwear	0,35	78,3	84,0	89,1	79,7	79,7	76,4
Wood and wood products, paper, publishing and printing	11,28	83,4	93,8	96,2	84,4	96,3	99,3
Sawmilling and planing of wood	1,69	97,5	101,5	115,4	93,4	115,6	107,3
Products of wood	2,42	76,7	98,6	109,0	94,9	102,6	109,1
Paper and paper products	4,09	90,6	95,9	90,2	83,1	94,6	99,8
Publishing	1,45	67,9	78,0	75,1	70,6	76,1	82,1
Printing, recorded media	1,63	74,7	87,8	91,0	74,8	89,1	90,5
Petroleum, chemical products, rubber and plastic products	23,82	95,1	89,0	92,8	94,1	98,4	98,0
Coke, petroleum products and nuclear fuel	9,18	105,0	82,4	81,9	106,1	89,7	95,8
Basic chemicals	4,41	97,2	90,4	100,7	87,5	111,1	101,3
Other chemical products	6,15	84,5	90,5	98,4	84,7	97,9	96,6
Rubber products	1,30	84,8	100,4	104,2	88,9	112,5	98,6
Plastic products	2,78	87,2	99,8	98,2	88,4	101,6	103,2
Glass and non-metallic mineral products	3,53	75,1	91,6	96,1	88,4	102,3	103,9
Glass and glass products	0,69	95,4	94,1	94,7	95,8	108,0	106,1
Non-metallic mineral products	2,84	70,2	91,0	96,5	86,6	100,9	103,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,74	86,6	100,1	108,1	94,8	106,9	105,9
Basic iron and steel products	3,52	119,9	109,1	120,5	114,9	126,1	116,4
Non-ferrous metal products	2,60	97,8	104,1	109,9	97,3	111,2	105,2
Structural metal products	1,92	57,9	88,4	88,2	74,3	93,4	96,0
Other fabricated metal products	3,84	86,2	100,7	107,4	96,0	112,1	107,7
General purpose machinery	2,57	72,1	95,9	100,0	88,9	101,3	103,6
Special purpose machinery	3,50	71,2	98,9	113,8	89,1	92,2	103,9
Household appliances	0,79	88,8	90,6	99,7	85,5	97,1	92,6
Electrical machinery	1,63	69,9	84,6	100,2	73,3	86,6	95,2
Radio, television and communication apparatus and professional equipment	1,59	76,2	95,4	97,4	84,3	92,3	89,0
Radio, television and communication apparatus	0,92	75,2	95,9	99,2	84,8	95,2	88,6
Professional equipment	0,67	77,5	94,7	94,9	83,5	88,4	89,6
Motor vehicles, parts and accessories and other transport equipment	7,20	80,5	105,2	114,7	85,7	114,4	108,4
Motor vehicles	2,60	61,9	100,4	100,9	77,2	113,4	101,4
Bodies for motor vehicles, trailers and semi-trailers	0,48	84,5	111,8	119,4	102,0	118,4	111,2
Parts and accessories	2,89	102,8	115,2	121,8	100,2	125,7	113,9
Other transport equipment	1,23	65,7	89,6	125,2	63,1	88,4	109,4
Furniture and other manufacturing	3,22	84,2	108,3	84,1	78,2	96,9	98,9
Furniture	1,08	62,3	94,6	86,9	83,8	100,2	94,4
Other manufacturing groups	2,14	95,3	115,2	82,7	75,3	95,2	101,1
Total	100	87,4	94,5	99,9	92,0	102,5	102,4

¹ The latest three months are preliminary.

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

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

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

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

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

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

Month	2012	2013	2014	2015	2016	2017	2018 ¹
Jan	110 851	120 410	134 525	133 730	137 841	148 118	155 142
Feb	130 318	136 580	151 473	148 643	160 942	163 412	174 248
Mar	138 289	142 666	156 916	167 548	169 986	183 141	185 548
Apr	121 813	138 227	148 760	147 565	160 803	158 508	165 274
May	135 205	146 358	153 484	158 509	173 551	179 622	191 608
Jun	135 655	144 271	161 528	163 515	177 603	183 539	193 248
Jul	132 495	151 553	151 058	164 049	171 324	175 257	
Aug	139 669	149 163	161 892	162 095	177 560	186 752	
Sep	136 810	145 373	168 492	172 905	184 969	188 992	
Oct	149 849	162 067	181 689	179 213	184 382	198 023	
Nov	158 942	168 049	176 621	180 154	196 523	214 658	
Dec	127 874	145 135	153 198	156 484	163 764	174 285	
Total	1 617 770	1 749 852	1 899 636	1 934 410	2 059 248	2 154 307	

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	8,6	11,7	-0,6	3,1	7,5	4,7	4,7
Feb	4,8	10,9	-1,9	8,3	1,5	6,6	5,7
Mar	3,2	10,0	6,8	1,5	7,7	1,3	4,1
Apr	13,5	7,6	-0,8	9,0	-1,4	4,3	4,1
May	8,2	4,9	3,3	9,5	3,5	6,7	4,7
Jun	6,4	12,0	1,2	8,6	3,3	5,3	4,8
Jul	14,4	-0,3	8,6	4,4	2,3		
Aug	6,8	8,5	0,1	9,5	5,2		
Sep	6,3	15,9	2,6	7,0	2,2		
Oct	8,2	12,1	-1,4	2,9	7,4		
Nov	5,7	5,1	2,0	9,1	9,2		
Dec	13,5	5,6	2,1	4,7	6,4		
Total	8,2	8,6	1,8	6,5	4,6		

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	157 756	165 261	175 655	182 592	-2,0	1,5	1,9	-1,7
Feb	156 049	168 615	172 809	184 226	-1,1	2,0	-1,6	0,9
Mar	163 269	167 836	174 918	184 861	4,6	-0,5	1,2	0,3
Apr	159 407	170 766	177 310	178 026	-2,4	1,7	1,4	-3,7
May	159 930	173 928	177 679	189 127	0,3	1,9	0,2	6,2
Jun	159 552	173 522	177 563	188 940	-0,2	-0,2	-0,1	-0,1
Jul	162 307	173 207	178 891		1,7	-0,2	0,7	
Aug	161 311	171 912	180 633		-0,6	-0,7	1,0	
Sep	163 870	173 926	180 052		1,6	1,2	-0,3	
Oct	163 357	171 260	181 881		-0,3	-1,5	1,0	
Nov	161 320	173 562	190 579		-1,2	1,3	4,8	
Dec	162 863	172 361	185 815		1,0	-0,7	-2,5	

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

Manufacturing division and major group	Jan-18	Feb-18	Mar-18	¹ Apr-18	¹ May-18	¹ Jun-18
Food and beverages	38 302	39 491	43 855	41 892	43 136	43 767
Meat, fish, fruit, etc.	11 262	11 333	12 363	11 229	12 564	12 730
Dairy products	3 565	3 465	3 856	3 479	3 685	3 601
Grain mill products	5 202	5 144	5 990	5 434	5 973	5 833
Other food products	8 530	8 581	8 975	11 258	9 622	10 260
Beverages	9 743	10 968	12 671	10 492	11 292	11 341
Textiles, clothing, leather and footwear	3 510	4 425	4 699	4 559	4 752	4 581
Textiles	501	651	656	639	699	680
Other textile products	880	1 224	1 265	1 228	1 349	1 300
Knitted, crocheted articles	166	227	253	256	257	246
Wearing apparel	982	1 360	1 518	1 434	1 443	1 355
Leather and leather products	565	534	557	584	598	598
Footwear	417	429	449	419	405	402
Wood and wood products, paper, publishing and printing	11 154	12 768	12 710	11 388	13 116	13 754
Sawmilling and planing of wood	848	928	984	839	1 082	993
Products of wood	1 299	1 640	1 890	1 556	1 758	1 984
Paper and paper products	5 882	6 445	5 948	5 666	6 455	6 860
Publishing	1 216	1 396	1 318	1 255	1 351	1 457
Printing, recorded media	1 908	2 359	2 571	2 071	2 469	2 460
Petroleum, chemical products, rubber and plastic products	35 317	34 761	37 447	34 043	40 977	39 798
Coke, petroleum products and nuclear fuel	12 886	10 518	11 336	11 792	13 879	13 150
Basic chemicals	7 301	7 267	8 199	6 476	8 941	8 586
Other chemical products	9 433	10 305	11 164	9 792	11 221	11 108
Rubber products	1 125	1 378	1 515	1 259	1 504	1 429
Plastic products	4 573	5 292	5 233	4 723	5 431	5 525
Glass and non-metallic mineral products	4 055	5 233	5 501	4 923	5 829	5 641
Glass and glass products	870	868	884	878	1 043	990
Non-metallic mineral products	3 185	4 365	4 617	4 045	4 786	4 651
Basic iron and steel, non-ferrous metal products, metal products and machinery	34 321	39 508	40 919	36 197	41 945	42 945
Basic iron and steel products	11 717	11 754	11 821	10 269	12 436	12 526
Non-ferrous metal products	8 871	9 756	9 549	9 266	10 502	10 909
Structural metal products	1 833	2 886	2 834	2 389	3 006	3 075
Other fabricated metal products	5 324	6 399	6 726	6 184	7 130	6 915
General purpose machinery	2 333	3 234	3 491	2 927	3 397	3 551
Special purpose machinery	3 230	4 344	5 255	4 117	4 261	4 756
Household appliances	1 012	1 136	1 242	1 046	1 214	1 213
Electrical machinery	3 615	4 592	5 072	3 996	4 641	4 924
Radio, television and communication apparatus and professional equipment	1 643	2 083	2 164	1 874	2 138	2 013
Radio, television and communication apparatus	990	1 247	1 320	1 102	1 311	1 228
Professional equipment	652	836	844	771	827	785
Motor vehicles, parts and accessories and other transport equipment	17 950	24 373	26 590	20 202	27 726	28 042
Motor vehicles	9 119	13 201	14 022	11 098	15 673	16 244
Bodies for motor vehicles, trailers and semi-trailers	806	1 038	1 167	964	1 203	1 140
Parts and accessories	5 999	7 379	7 560	6 184	8 092	7 210
Other transport equipment	2 026	2 756	3 842	1 956	2 759	3 448
Furniture and other manufacturing	5 275	7 014	6 592	6 201	7 349	7 785
Furniture	866	1 297	1 207	1 166	1 337	1 308
Other manufacturing groups	4 410	5 717	5 385	5 035	6 012	6 477
Total	155 142	174 248	185 548	165 274	191 608	193 248

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

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

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

Manufacturing division and major group	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Month-on-month % change
Food and beverages	43 408	44 335	44 873	44 432	45 142	1,6
Meat, fish, fruit, etc.	12 626	12 174	11 965	12 568	12 788	1,8
Dairy products	3 776	3 708	3 669	3 805	3 829	0,6
Grain mill products	5 746	5 935	5 685	5 782	5 778	-0,1
Other food products	9 344	10 307	11 054	9 895	10 170	2,8
Beverages	11 915	12 210	12 500	12 381	12 577	1,6
Textiles, clothing, leather and footwear	4 682	4 653	4 645	4 710	4 644	-1,4
Textiles	658	644	645	644	677	5,1
Other textile products	1 237	1 227	1 252	1 309	1 252	-4,4
Knitted, crocheted articles	228	229	233	229	242	5,7
Wearing apparel	1 541	1 513	1 491	1 477	1 464	-0,9
Leather and leather products	528	575	576	591	577	-2,4
Footwear	491	465	449	460	433	-5,9
Wood and wood products, paper, publishing and printing	13 379	12 690	13 026	13 432	13 520	0,7
Sawmilling and planing of wood	959	992	935	1 020	978	-4,1
Products of wood	1 727	1 808	1 704	1 788	1 854	3,7
Paper and paper products	6 704	5 866	6 371	6 598	6 558	-0,6
Publishing	1 476	1 453	1 458	1 471	1 528	3,9
Printing, recorded media	2 513	2 572	2 559	2 554	2 601	1,8
Petroleum, chemical products, rubber and plastic products	38 475	39 169	36 672	39 848	39 524	-0,8
Coke, petroleum products and nuclear fuel	12 442	12 310	12 385	12 807	12 728	-0,6
Basic chemicals	8 170	8 718	6 964	8 891	8 787	-1,2
Other chemical products	11 066	11 224	10 782	11 139	11 020	-1,1
Rubber products	1 341	1 453	1 322	1 416	1 359	-4,0
Plastic products	5 456	5 463	5 219	5 595	5 631	0,6
Glass and non-metallic mineral products	5 692	5 649	5 311	5 500	5 455	-0,8
Glass and glass products	1 015	1 048	1 056	1 066	1 034	-3,0
Non-metallic mineral products	4 677	4 600	4 254	4 433	4 421	-0,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	39 825	39 501	37 643	40 155	40 658	1,3
Basic iron and steel products	11 677	11 428	10 138	11 562	11 627	0,6
Non-ferrous metal products	9 897	9 661	9 540	10 080	10 583	5,0
Structural metal products	2 701	2 784	2 695	2 868	2 842	-0,9
Other fabricated metal products	6 614	6 672	6 572	6 740	6 686	-0,8
General purpose machinery	3 327	3 416	3 183	3 333	3 268	-2,0
Special purpose machinery	4 481	4 386	4 389	4 388	4 500	2,6
Household appliances	1 128	1 154	1 127	1 184	1 153	-2,6
Electrical machinery	4 538	4 490	4 532	4 653	4 585	-1,5
Radio, television and communication apparatus and professional equipment	2 176	2 124	2 189	2 256	2 131	-5,5
Radio, television and communication apparatus	1 341	1 348	1 367	1 448	1 356	-6,4
Professional equipment	835	776	821	808	774	-4,2
Motor vehicles, parts and accessories and other transport equipment	25 035	25 249	22 392	26 994	25 826	-4,3
Motor vehicles	13 790	13 714	12 674	15 395	14 959	-2,8
Bodies for motor vehicles, trailers and semi-trailers	1 066	1 171	959	1 105	1 113	0,7
Parts and accessories	7 261	7 269	6 359	7 434	6 935	-6,7
Other transport equipment	2 918	3 095	2 401	3 061	2 820	-7,9
Furniture and other manufacturing	7 016	7 001	6 743	7 148	7 455	4,3
Furniture	1 389	1 359	1 288	1 338	1 325	-1,0
Other manufacturing groups	5 627	5 642	5 455	5 809	6 130	5,5
Total	184 226	184 861	178 026	189 127	188 940	-0,1

Survey information

Introduction	1 Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry, covering manufacturing enterprises. This statistical release contains the results of a sample drawn from the business sampling frame (BSF), with enhanced coverage of South African businesses (see 4). The release contains monthly indices of the volume of manufacturing production and monthly value of sales of manufactured products by division and major group. 2 In accordance with international practice, the indices are usually re-based every five years to a new base year. The current base period of the index is 2015. Both estimated and seasonally adjusted figures are presented. 3 In order to improve timeliness, some information for the latest month had to be estimated due to late response. These estimates will be revised in future statistical releases as soon as information becomes available. 4 Stats SA is continuously updating its BSF, based on units registered for value added tax (VAT) and income tax (IT) obtained from the South African Revenue Service (SARS).
Purpose of the survey	5 The results of the monthly manufacturing production and sales survey are used to calculate the volume of manufacturing production indices in order to estimate the gross domestic product (GDP) and its components, which in turn are used to develop and monitor government policy. These indices provide an indicator of the real level of manufacturing activity in the economy.
Special Data Dissemination Standard of the IMF	6 The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.
Scope of the survey	7 This survey covers manufacturing enterprises, i.e. those conducting activities in - • the manufacturing, processing, making or packing of products; • the slaughtering of animals, including poultry; and • installation, assembly, completion, repair and related work.
Classification	8 The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities</i> (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities</i> (ISIC) with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two digit) and major group (three digit) level.
Collection rate	9 The preliminary collection rate for the survey on manufacturing production and sales for June 2018 was 86,2%. The improved collection rate for May 2018 was 89,5%.
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 3 192 enterprises from a population of 47 438 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 2017 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	1 913 350	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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