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Manufacturing: Production and sales (Preliminary)

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Production: results for December 2017

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

	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Year-on-year % change, unadjusted	-1,4	1,5	-2,0	2,1	1,5	2,0
Month-on-month % change, seasonally adjusted	1,3	0,3	-1,1	1,0	1,1	1,1
3-month % change, seasonally adjusted ¹	1,0	1,1	0,8	0,7	0,5	1,5

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

Manufacturing production increased by 2,0% in December 2017 compared with December 2016. The largest contributions were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (3,3% and contributing 0,8 of a percentage point);
- wood and wood products, paper, publishing and printing (-5,8% and contributing -0,7 of a percentage point);
- basic iron and steel, non-ferrous metal products, metal products and machinery (3,6% and contributing 0,6 of a percentage point);
- food and beverages (1,5% and contributing 0,4 of a percentage point); and
- motor vehicles, parts and accessories and other transport equipment (8,0% and contributing 0,4 of a percentage point) – see Tables 5 and 6.

Seasonally adjusted manufacturing production increased by 1,1% in December 2017 compared with November 2017. This followed month-on-month changes of 1,1% in November 2017 and 1,0% in October 2017 – see Table A. The seasonally adjusted production index (base 2015=100) in December 2017 (103,1) was the highest since September 2008 (104,0).

In 2017, total manufacturing production decreased by 0,5% compared with 2016. The largest contributions were made by the following divisions:

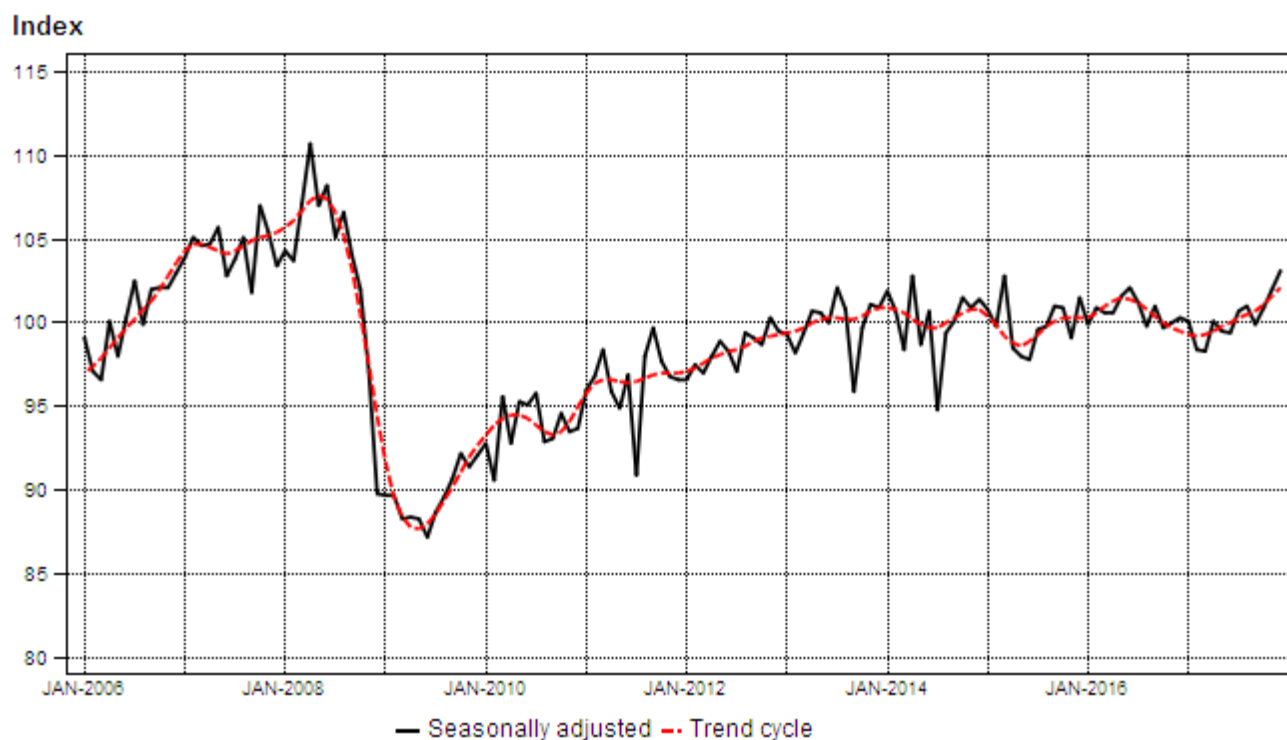
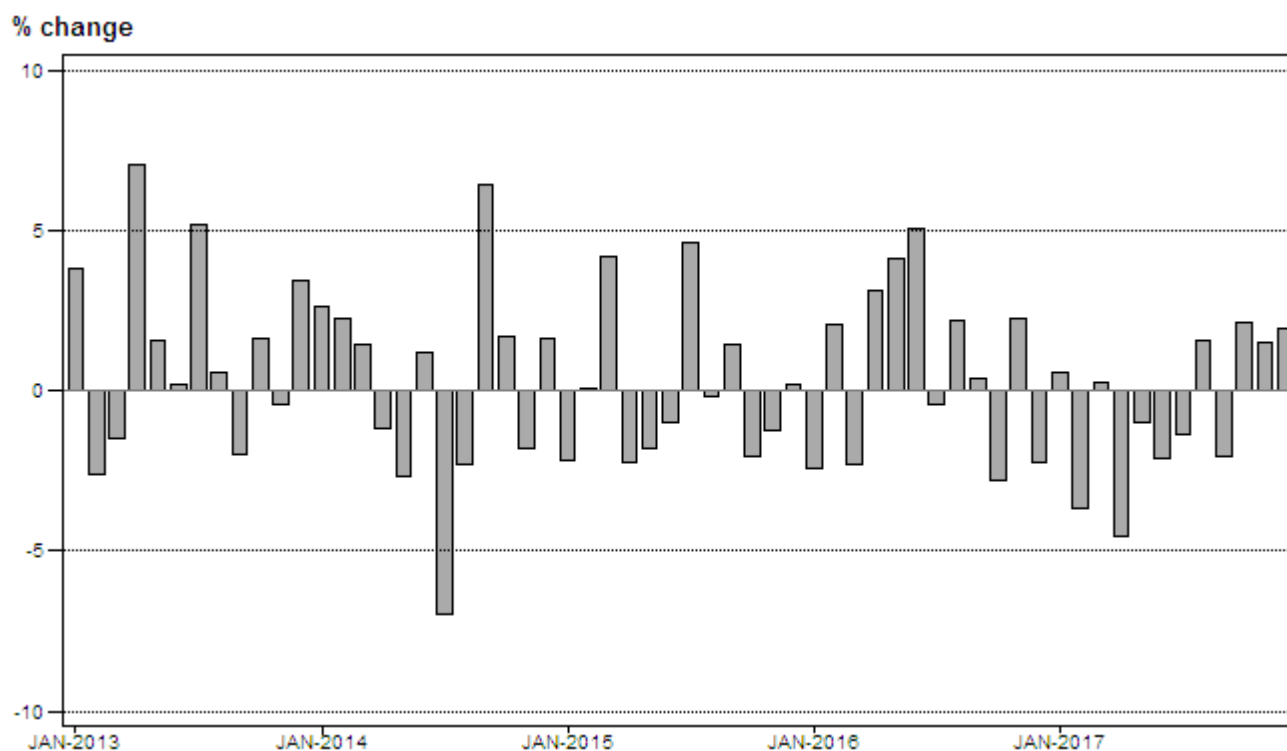
- petroleum, chemical products, rubber and plastic products (-3,8% and contributing -0,9 of a percentage point);
- basic iron and steel, non-ferrous metal products, metal products and machinery (3,9% and contributing 0,7 of a percentage point);
- food and beverages (2,0% and contributing 0,5 of a percentage point); and
- wood and wood products, paper, publishing and printing (-3,5% and contributing -0,4 of a percentage point).

Seasonally adjusted manufacturing production increased by 1,5% in the fourth quarter of 2017 compared with the third quarter of 2017. Seven of the ten manufacturing divisions reported positive growth rates over this period.

The largest contribution to the 1,5% increase was made by the petroleum, chemical products, rubber and plastic products division (4,0% and contributing 1,0 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 2017	Oct – Dec 2017	% change between Jul – Sep 2017 and Oct – Dec 2017	Contribution (% points) to the total % change
Food and beverages	25,15	101,7	102,5	0,8	0,2
Meat, fish, fruit, etc.	6,39	98,9	99,6	0,7	0,0
Dairy products	1,89	99,8	100,1	0,3	0,0
Grain mill products	2,86	95,3	96,8	1,6	0,0
Other food products	7,62	107,4	109,3	1,8	0,1
Beverages	6,39	101,0	100,5	-0,5	0,0
Textiles, clothing, leather and footwear	3,28	94,6	95,1	0,5	0,0
Textiles	0,83	109,2	104,0	-4,8	0,0
Other textile products	0,41	102,0	101,1	-0,9	0,0
Knitted, crocheted articles	0,09	97,1	94,2	-3,0	0,0
Wearing apparel	1,10	88,0	88,2	0,2	0,0
Leather and leather products	0,49	84,0	89,3	6,3	0,0
Footwear	0,36	86,2	96,9	12,4	0,0
Wood and wood products, paper, publishing and printing	11,62	98,6	99,0	0,4	0,0
Sawmilling and planing of wood	1,71	110,7	111,0	0,3	0,0
Products of wood	2,37	101,7	102,7	1,0	0,0
Paper and paper products	4,33	96,2	98,3	2,2	0,1
Publishing	1,49	91,9	86,6	-5,8	-0,1
Printing, recorded media	1,72	94,4	94,4	0,0	0,0
Petroleum, chemical products, rubber and plastic products	24,01	100,5	104,5	4,0	1,0
Coke, petroleum products and nuclear fuel	9,29	102,2	110,4	8,0	0,8
Basic chemicals	4,36	100,1	103,1	3,0	0,1
Other chemical products	6,16	99,5	99,5	0,0	0,0
Rubber products	1,34	98,6	97,0	-1,6	0,0
Plastic products	2,86	98,7	101,8	3,1	0,1
Glass and non-metallic mineral products	3,90	95,8	98,9	3,2	0,1
Glass and glass products	0,74	101,6	102,1	0,5	0,0
Non-metallic mineral products	3,16	94,4	98,2	4,0	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	102,8	103,8	1,0	0,2
Basic iron and steel products	3,44	115,1	118,4	2,9	0,1
Non-ferrous metal products	2,73	109,4	107,3	-1,9	-0,1
Structural metal products	1,86	90,5	89,3	-1,3	0,0
Other fabricated metal products	3,86	101,3	105,6	4,2	0,2
General purpose machinery	2,51	95,1	97,6	2,6	0,1
Special purpose machinery	3,51	102,2	99,8	-2,3	-0,1
Household appliances	0,81	90,0	91,4	1,6	0,0
Electrical machinery	1,65	91,0	90,4	-0,7	0,0
Radio, television and communication apparatus and professional equipment	1,61	103,6	101,1	-2,4	0,0
Radio, television and communication	0,93	109,7	104,4	-4,8	0,0
Professional equipment	0,68	95,3	96,7	1,5	0,0
Motor vehicles, parts and accessories and other transport equipment	6,86	101,6	100,0	-1,6	-0,1
Motor vehicles	2,43	98,0	94,7	-3,4	-0,1
Bodies for motor vehicles, trailers and semi-	0,46	106,9	107,7	0,7	0,0
Parts and accessories	2,76	106,5	108,0	1,4	0,0
Other transport equipment	1,21	95,7	89,5	-6,5	-0,1
Furniture and other manufacturing	3,20	97,9	101,4	3,6	0,1
Furniture	1,09	94,1	95,9	1,9	0,0
Other manufacturing groups	2,11	99,9	104,2	4,3	0,1
Total	100	100,5	102,0	1,5	1,5

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

Sales: results for December 2017**Table C – Key growth rates in manufacturing sales at current prices**

	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Year-on-year % change, unadjusted	2,3	5,2	2,2	7,4	9,2	6,7
Month-on-month % change, seasonally adjusted	0,4	1,3	-0,4	0,9	5,0	-2,4
3-month % change, seasonally adjusted ¹	2,5	1,9	1,5	1,5	2,9	3,5

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

Seasonally adjusted manufacturing sales decreased by 2,4% in December 2017 compared with November 2017. This followed month-on-month changes of 5,0% in November 2017 and 0,9% in October 2017 – see Table C.

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

Manufacturing division	Jul – Sep 2017 (R million)	Oct – Dec 2017 (R million)	% change between Jul – Sep 2017 and Oct – Dec 2017	Contribution (% points) to the total % change
Food and beverages	128 692	131 184	1,9	0,5
Textiles, clothing, leather and footwear	14 435	14 593	1,1	0,0
Wood and wood products, paper, publishing and printing	39 151	39 991	2,1	0,2
Petroleum, chemical products, rubber and plastic products	113 435	116 860	3,0	0,6
Glass and non-metallic mineral products	16 030	16 613	3,6	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	113 074	121 784	7,7	1,6
Electrical machinery	13 461	14 188	5,4	0,1
Radio, television and communication apparatus and professional equipment	6 516	6 565	0,8	0,0
Motor vehicles, parts and accessories and other transport equipment	76 146	76 927	1,0	0,1
Furniture and other manufacturing	19 547	20 935	7,1	0,3
Total	540 486	559 640	3,5	3,5

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Tables

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

Month	2011	2012	2013	2014	2015	2016	2017 ¹
Jan	81,4	83,4	86,6	88,9	87,0	84,9	85,4
Feb	92,3	95,9	93,4	95,5	95,6	97,6	94,0
Mar	102,6	99,7	98,2	99,6	103,8	101,4	101,7
Apr	87,7	89,3	95,6	94,5	92,4	95,3	91,0
May	95,3	100,3	101,9	99,2	97,4	101,4	100,4
Jun	97,8	98,4	98,6	99,8	98,8	103,8	101,6
Jul	92,8	99,6	104,8	97,5	102,0	101,6	* 100,2
Aug	101,2	103,2	103,8	101,4	101,2	103,4	* 105,0
Sep	103,6	101,1	99,1	105,5	107,0	107,4	105,2
Oct	106,0	109,5	111,3	113,2	110,9	107,8	110,1
Nov	109,4	113,6	113,1	111,1	109,7	112,2	113,9
Dec	87,7	89,3	92,4	93,9	94,1	92,0	93,8
Total	96,5	98,6	99,9	100,0	100,0	100,7	100,2

¹ The latest three months are preliminary.

* Revised.

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

Month	2012	2013	2014	2015	2016	2017	2017 year-to-date
Jan	2,5	3,8	2,7	-2,1	-2,4	0,6	0,6
Feb	3,9	-2,6	2,2	0,1	2,1	-3,7	-1,7
Mar	-2,8	-1,5	1,4	4,2	-2,3	0,3	-1,0
Apr	1,8	7,1	-1,2	-2,2	3,1	-4,5	-1,9
May	5,2	1,6	-2,6	-1,8	4,1	-1,0	-1,7
Jun	0,6	0,2	1,2	-1,0	5,1	-2,1	-1,8
Jul	7,3	5,2	-7,0	4,6	-0,4	-1,4	-1,7
Aug	2,0	0,6	-2,3	-0,2	2,2	1,5	-1,3
Sep	-2,4	-2,0	6,5	1,4	0,4	-2,0	-1,4
Oct	3,3	1,6	1,7	-2,0	-2,8	2,1	-1,0
Nov	3,8	-0,4	-1,8	-1,3	2,3	1,5	-0,7
Dec	1,8	3,5	1,6	0,2	-2,2	2,0	-0,5
Total	2,2	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			
	2014	2015	2016	2017	2014	2015	2016	2017
Jan	101,9	100,8	99,9	100,1	1,0	-0,6	-1,6	-0,2
Feb	100,7	99,8	100,9	98,4	-1,2	-1,0	1,0	-1,7
Mar	98,4	102,8	100,6	98,3	-2,3	3,0	-0,3	-0,1
Apr	102,8	98,5	100,6	100,1	4,5	-4,2	0,0	1,8
May	98,7	98,0	101,6	99,5	-4,0	-0,5	1,0	-0,6
Jun	100,7	97,8	102,1	99,4	2,0	-0,2	0,5	-0,1
Jul	94,8	99,6	101,2	100,7	-5,9	1,8	-0,9	1,3
Aug	99,4	99,8	99,8	101,0	4,9	0,2	-1,4	0,3
Sep	100,1	101,0	101,0	99,9	0,7	1,2	1,2	-1,1
Oct	101,5	100,9	99,7	100,9	1,4	-0,1	-1,3	1,0
Nov	100,9	99,1	100,0	102,0	-0,6	-1,8	0,3	1,1
Dec	101,4	101,5	100,3	103,1	0,5	2,4	0,3	1,1

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

Manufacturing division and major group	Weights	* Jul-17	* Aug-17	Sep-17	¹ Oct-17	¹ Nov-17	¹ Dec-17
Food and beverages	25,15	98,1	107,0	107,4	111,8	116,4	109,0
Meat, fish, fruit, etc.	6,39	94,9	101,5	100,0	100,7	110,2	107,4
Dairy products	1,89	93,2	101,7	102,8	112,5	112,7	105,0
Grain mill products	2,86	97,1	98,6	93,7	97,7	108,4	96,8
Other food products	7,62	111,7	123,8	122,0	125,7	122,1	97,6
Beverages	6,39	86,8	97,9	105,0	112,6	120,3	130,8
Textiles, clothing, leather and footwear	3,28	96,4	96,5	99,6	109,6	110,2	76,7
Textiles	0,83	112,4	108,1	111,5	122,7	113,8	66,3
Other textile products	0,41	100,6	100,8	111,7	114,7	116,9	76,9
Knitted, crocheted articles	0,09	100,0	95,2	97,6	101,2	108,2	64,6
Wearing apparel	1,10	97,8	93,1	93,3	104,4	109,3	80,6
Leather and leather products	0,49	68,4	87,3	87,3	98,0	92,6	82,1
Footwear	0,36	87,6	88,5	95,4	107,7	122,1	84,4
Wood and wood products, paper, publishing and printing	11,62	98,2	102,3	106,5	109,1	114,4	89,0
Sawmilling and planing of wood	1,71	114,7	115,4	112,0	131,4	111,5	83,8
Products of wood	2,37	101,4	107,9	107,8	118,3	122,2	79,6
Paper and paper products	4,33	92,6	96,9	109,1	97,0	108,8	98,5
Publishing	1,49	90,5	99,3	98,7	98,8	117,4	81,0
Printing, recorded media	1,72	98,0	98,1	99,8	113,6	118,1	90,2
Petroleum, chemical products, rubber and plastic products	24,01	99,7	104,0	102,4	111,0	111,6	100,6
Coke, petroleum products and nuclear fuel	9,29	101,0	105,0	100,6	108,3	109,4	113,4
Basic chemicals	4,36	101,7	103,6	103,4	117,5	116,8	98,5
Other chemical products	6,16	96,2	104,0	104,4	107,0	108,4	97,0
Rubber products	1,34	99,9	104,6	97,4	115,6	104,0	60,4
Plastic products	2,86	99,8	101,4	105,1	116,2	121,3	88,5
Glass and non-metallic mineral products	3,90	101,6	104,9	103,3	111,5	114,5	74,2
Glass and glass products	0,74	103,5	109,9	113,3	116,2	119,0	97,0
Non-metallic mineral products	3,16	101,2	103,7	100,9	110,4	113,4	68,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	104,2	105,9	104,5	110,4	112,5	86,8
Basic iron and steel products	3,44	107,9	110,5	113,2	123,6	119,6	100,4
Non-ferrous metal products	2,73	114,6	111,3	104,7	109,5	109,0	98,2
Structural metal products	1,86	94,1	92,6	94,4	94,0	115,5	63,6
Other fabricated metal products	3,86	105,8	110,3	105,1	114,7	117,3	78,6
General purpose machinery	2,51	96,8	101,7	98,0	109,6	110,9	84,6
Special purpose machinery	3,51	105,4	106,3	106,9	106,0	105,8	90,1
Household appliances	0,81	87,2	89,3	97,2	97,3	98,7	75,7
Electrical machinery	1,65	92,9	94,1	97,0	95,7	99,1	73,9
Radio, television and communication apparatus and professional equipment	1,61	105,5	107,6	110,9	105,5	118,8	108,0
Radio, television and communication apparatus	0,93	111,6	122,4	120,0	113,4	130,1	112,0
Professional equipment	0,68	97,2	87,5	98,5	94,7	103,6	102,5
Motor vehicles, parts and accessories and other transport equipment	6,86	102,8	110,8	111,5	102,0	114,4	67,2
Motor vehicles	2,43	108,2	109,6	106,5	97,5	112,8	53,3
Bodies for motor vehicles, trailers and semi-trailers	0,46	105,1	115,7	112,4	120,3	129,2	75,4
Parts and accessories	2,76	106,2	118,4	112,3	108,4	120,9	69,0
Other transport equipment	1,21	83,5	94,0	119,6	89,7	97,4	87,8
Furniture and other manufacturing	3,20	103,3	102,5	103,3	117,1	125,5	84,6
Furniture	1,09	95,3	106,0	97,4	117,5	129,7	85,2
Other manufacturing groups	2,11	107,5	100,6	106,3	116,9	123,4	84,3
Total	100	100,2	105,0	105,2	110,1	113,9	93,8

¹ The latest three months are preliminary.

* Revised.

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

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-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Food and beverages	25,15	0,2	0,5	0,3	1,8	1,5	0,4
Meat, fish, fruit, etc.	6,39	-0,1	0,1	0,0	0,0	0,5	0,2
Dairy products	1,89	0,0	0,1	0,0	0,1	0,1	0,0
Grain mill products	2,86	0,0	-0,1	-0,2	-0,1	0,0	0,0
Other food products	7,62	0,4	0,2	0,8	1,1	1,0	0,3
Beverages	6,39	-0,1	0,1	-0,2	0,7	0,0	0,0
Textiles, clothing, leather and footwear	3,28	-0,2	-0,1	-0,2	-0,1	-0,2	0,0
Textiles	0,83	0,1	0,0	0,0	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	1,10	-0,1	-0,1	-0,1	-0,1	-0,1	0,0
Leather and leather products	0,49	0,0	0,0	0,0	0,0	0,0	0,0
Footwear	0,36	-0,1	-0,1	0,0	0,0	0,0	0,0
Wood and wood products, paper, publishing and printing	11,62	-0,6	-0,2	-0,9	-0,3	-0,2	-0,7
Sawmilling and planing of wood	1,71	0,0	0,1	0,0	0,2	0,0	-0,2
Products of wood	2,37	0,0	0,0	-0,1	-0,1	-0,1	0,0
Paper and paper products	4,33	-0,3	-0,1	-0,5	-0,1	0,1	0,0
Publishing	1,49	-0,1	0,0	-0,1	-0,2	0,0	-0,3
Printing, recorded media	1,72	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2
Petroleum, chemical products, rubber and plastic products	24,01	-1,5	-0,2	-0,6	-0,2	-0,2	0,8
Coke, petroleum products and nuclear fuel	9,29	-1,0	0,1	0,3	0,2	0,1	0,7
Basic chemicals	4,36	0,0	0,0	-0,4	-0,1	0,3	0,2
Other chemical products	6,16	-0,5	-0,4	-0,4	-0,4	-0,6	0,0
Rubber products	1,34	-0,1	0,1	0,0	0,1	-0,1	-0,1
Plastic products	2,86	0,0	0,0	0,0	0,1	0,1	0,1
Glass and non-metallic mineral products	3,90	-0,1	0,0	-0,2	0,1	-0,1	0,3
Glass and glass products	0,74	0,1	0,0	0,0	0,0	0,0	0,0
Non-metallic mineral products	3,16	-0,1	0,0	-0,3	0,1	-0,1	0,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	1,1	1,7	0,3	0,9	0,5	0,6
Basic iron and steel products	3,44	0,3	0,7	0,4	0,5	0,3	0,4
Non-ferrous metal products	2,73	0,4	0,3	0,1	0,1	0,0	0,1
Structural metal products	1,86	0,0	0,0	-0,1	-0,1	0,1	-0,1
Other fabricated metal products	3,86	0,0	0,1	-0,3	0,0	-0,2	0,3
General purpose machinery	2,51	0,1	0,0	0,0	0,1	0,1	0,0
Special purpose machinery	3,51	0,1	0,5	0,3	0,3	0,2	-0,1
Household appliances	0,81	0,0	0,0	0,0	0,0	0,0	0,0
Electrical machinery	1,65	-0,1	0,0	-0,2	0,0	-0,1	-0,1
Radio, television and communication apparatus and professional equipment	1,61	0,0	-0,1	-0,1	-0,2	-0,2	0,1
Radio, television and communication apparatus	0,93	0,0	0,0	0,0	-0,1	-0,1	0,0
Professional equipment	0,68	0,0	-0,1	-0,1	-0,1	-0,1	0,0
Motor vehicles, parts and accessories and other transport equipment	6,86	-0,2	0,0	-0,3	0,2	0,4	0,4
Motor vehicles	2,43	0,0	-0,1	0,0	-0,1	0,0	0,1
Bodies for motor vehicles, trailers and semi-trailers	0,46	0,0	0,1	0,0	0,1	0,0	0,0
Parts and accessories	2,76	-0,2	0,1	-0,2	0,1	0,3	0,4
Other transport equipment	1,21	0,0	0,0	-0,2	0,1	0,0	-0,2
Furniture and other manufacturing	3,20	0,1	-0,2	-0,2	0,0	0,1	0,1
Furniture	1,09	0,0	0,0	-0,1	0,0	0,0	0,0
Other manufacturing groups	2,11	0,1	-0,2	-0,1	0,0	0,1	0,0
Total	100	-1,4	1,5	-2,0	2,1	1,5	2,0

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-17	Sep-17	Oct-17	Nov-17	Dec-17	Month-on-month % change
Food and beverages	25,15	101,3	102,1	102,5	103,5	101,4	-2,0
Meat, fish, fruit, etc.	6,39	99,4	98,9	97,7	100,5	100,5	0,0
Dairy products	1,89	101,3	98,1	102,0	103,3	95,0	-8,0
Grain mill products	2,86	95,2	94,2	94,8	98,5	97,1	-1,4
Other food products	7,62	105,7	110,2	110,5	111,3	106,0	-4,8
Beverages	6,39	100,5	100,2	101,3	99,5	100,7	1,2
Textiles, clothing, leather and footwear	3,28	94,3	93,4	93,9	92,8	98,5	6,1
Textiles	0,83	105,5	105,4	108,6	100,4	102,9	2,5
Other textile products	0,41	101,9	103,8	100,4	101,6	101,4	-0,2
Knitted, crocheted articles	0,09	102,3	95,6	89,8	95,5	97,2	1,8
Wearing apparel	1,10	88,1	86,3	84,7	85,2	94,6	11,0
Leather and leather products	0,49	87,0	86,1	89,3	86,3	92,2	6,8
Footwear	0,36	86,7	85,1	87,9	96,5	106,4	10,3
Wood and wood products, paper, publishing and printing	11,62	99,7	97,9	99,5	99,7	97,7	-2,0
Sawmilling and planing of wood	1,71	112,0	110,0	120,1	108,1	104,9	-3,0
Products of wood	2,37	102,5	100,8	102,3	102,4	103,3	0,9
Paper and paper products	4,33	96,9	96,0	96,2	100,0	98,6	-1,4
Publishing	1,49	94,2	89,9	86,1	93,2	80,5	-13,6
Printing, recorded media	1,72	95,6	93,7	95,2	92,6	95,3	2,9
Petroleum, chemical products, rubber and plastic products	24,01	101,5	99,5	103,0	103,4	107,1	3,6
Coke, petroleum products and nuclear fuel	9,29	105,0	100,6	108,3	109,4	113,4	3,7
Basic chemicals	4,36	99,6	99,7	101,9	103,3	104,1	0,8
Other chemical products	6,16	98,7	99,1	97,0	97,8	103,7	6,0
Rubber products	1,34	102,7	95,5	103,1	93,9	94,1	0,2
Plastic products	2,86	98,4	98,2	100,7	100,4	104,4	4,0
Glass and non-metallic mineral products	3,90	96,6	94,6	97,6	98,2	101,0	2,9
Glass and glass products	0,74	102,4	102,3	100,8	101,7	103,8	2,1
Non-metallic mineral products	3,16	95,2	92,8	96,9	97,4	100,4	3,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	103,0	101,6	103,2	103,5	104,6	1,1
Basic iron and steel products	3,44	115,0	116,0	120,3	119,1	115,8	-2,8
Non-ferrous metal products	2,73	108,3	106,0	106,2	107,0	108,6	1,5
Structural metal products	1,86	89,0	89,7	86,0	95,8	86,0	-10,2
Other fabricated metal products	3,86	103,6	98,0	102,2	102,5	112,0	9,3
General purpose machinery	2,51	94,9	95,0	97,9	96,9	97,9	1,0
Special purpose machinery	3,51	103,2	101,0	101,4	99,2	98,7	-0,5
Household appliances	0,81	88,4	93,8	88,8	87,5	98,0	12,0
Electrical machinery	1,65	93,5	88,5	90,0	89,0	92,2	3,6
Radio, television and communication apparatus and professional equipment	1,61	102,8	101,9	93,9	99,0	110,5	11,6
Radio, television and communication apparatus	0,93	110,1	109,0	96,8	103,8	112,5	8,4
Professional equipment	0,68	93,0	92,3	89,9	92,6	107,7	16,3
Motor vehicles, parts and accessories and other transport equipment	6,86	103,3	101,5	93,9	101,5	104,5	3,0
Motor vehicles	2,43	96,0	98,2	86,0	95,8	102,2	6,7
Bodies for motor vehicles, trailers and semi-trailers	0,46	109,2	108,8	107,7	106,7	108,6	1,8
Parts and accessories	2,76	112,6	105,0	100,7	108,4	114,9	6,0
Other transport equipment	1,21	94,8	97,6	88,8	95,5	84,2	-11,8
Furniture and other manufacturing	3,20	98,3	96,8	98,2	102,4	103,6	1,2
Furniture	1,09	101,3	89,6	92,5	95,9	99,2	3,4
Other manufacturing groups	2,11	96,8	100,5	101,2	105,7	105,8	0,1
Total	100	101,0	99,9	100,9	102,0	103,1	1,1

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

Month	2011	2012	2013	2014	2015	2016	2017 ¹
Jan	99 651	110 851	120 410	134 525	133 730	137 841	148 118
Feb	115 892	130 318	136 580	151 473	148 643	160 942	163 412
Mar	131 030	138 289	142 666	156 916	167 548	169 986	183 141
Apr	112 158	121 813	138 227	148 760	147 565	160 803	158 508
May	122 027	135 205	146 358	153 484	158 509	173 551	179 622
Jun	126 954	135 655	144 271	161 528	163 515	177 603	183 539
Jul	117 444	132 495	151 553	151 058	164 049	171 324	* 175 257
Aug	130 032	139 669	149 163	161 892	162 095	177 560	* 186 752
Sep	138 165	136 810	145 373	168 492	172 905	184 969	188 992
Oct	139 095	149 849	162 067	181 689	179 213	184 382	198 074
Nov	144 755	158 942	168 049	176 621	180 154	196 523	214 511
Dec	121 978	127 874	145 135	153 198	156 484	163 764	174 812
Total	1 499 181	1 617 770	1 749 852	1 899 636	1 934 410	2 059 248	2 154 738

¹ The latest three months are preliminary.

* Revised.

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

Month	2012	2013	2014	2015	2016	2017	2017 year-to-date
Jan	11,2	8,6	11,7	-0,6	3,1	7,5	7,5
Feb	12,4	4,8	10,9	-1,9	8,3	1,5	4,3
Mar	5,5	3,2	10,0	6,8	1,5	7,7	5,5
Apr	8,6	13,5	7,6	-0,8	9,0	-1,4	3,7
May	10,8	8,2	4,9	3,3	9,5	3,5	3,7
Jun	6,9	6,4	12,0	1,2	8,6	3,3	3,6
Jul	12,8	14,4	-0,3	8,6	4,4	2,3	3,4
Aug	7,4	6,8	8,5	0,1	9,5	5,2	3,7
Sep	-1,0	6,3	15,9	2,6	7,0	2,2	3,5
Oct	7,7	8,2	12,1	-1,4	2,9	7,4	3,9
Nov	9,8	5,7	5,1	2,0	9,1	9,2	4,5
Dec	4,8	13,5	5,6	2,1	4,7	6,7	4,6
Total	7,9	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			
	2014	2015	2016	2017	2014	2015	2016	2017
Jan	155 988	158 084	165 247	175 356	1,0	-1,7	1,3	1,6
Feb	158 622	155 999	168 303	172 764	1,7	-1,3	1,8	-1,5
Mar	153 315	162 538	167 969	173 815	-3,3	4,2	-0,2	0,6
Apr	160 090	158 745	169 115	175 916	4,4	-2,3	0,7	1,2
May	153 777	160 259	174 300	178 258	-3,9	1,0	3,1	1,3
Jun	159 552	159 675	173 713	178 171	3,8	-0,4	-0,3	0,0
Jul	150 459	162 254	173 439	178 899	-5,7	1,6	-0,2	0,4
Aug	160 332	161 400	172 041	181 138	6,6	-0,5	-0,8	1,3
Sep	160 235	164 116	174 152	180 449	-0,1	1,7	1,2	-0,4
Oct	163 698	163 718	171 294	182 036	2,2	-0,2	-1,6	0,9
Nov	161 030	161 388	174 211	191 091	-1,6	-1,4	1,7	5,0
Dec	160 891	163 087	172 664	186 513	-0,1	1,1	-0,9	-2,4

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

Manufacturing division and major group	* Jul-17	* Aug-17	Sep-17	¹ Oct-17	¹ Nov-17	¹ Dec-17
Food and beverages	40 054	44 498	43 829	46 550	50 527	49 134
Meat, fish, fruit, etc.	11 882	12 880	12 454	12 777	14 136	13 627
Dairy products	3 298	3 602	3 568	3 935	3 974	3 731
Grain mill products	5 933	6 138	5 638	6 014	6 485	5 795
Other food products	9 420	10 275	9 973	11 052	11 907	9 532
Beverages	9 521	11 604	12 196	12 773	14 025	16 449
Textiles, clothing, leather and footwear	4 757	4 980	5 110	5 497	5 876	4 173
Textiles	710	711	738	832	808	439
Other textile products	1 231	1 254	1 363	1 398	1 441	1 033
Knitted, crocheted articles	231	226	249	246	264	168
Wearing apparel	1 671	1 703	1 659	1 799	2 027	1 450
Leather and leather products	488	636	632	661	628	548
Footwear	425	449	469	560	708	535
Wood and wood products, paper, publishing and printing	12 658	13 539	14 559	14 290	15 801	12 564
Sawmilling and planing of wood	934	1 085	1 056	1 224	1 007	756
Products of wood	1 614	1 811	1 841	2 080	2 156	1 361
Paper and paper products	5 969	6 417	7 205	6 280	7 327	6 579
Publishing	1 588	1 669	1 785	1 712	2 109	1 424
Printing, recorded media	2 553	2 557	2 672	2 994	3 201	2 444
Petroleum, chemical products, rubber and plastic products	37 128	38 895	39 312	41 758	43 509	38 393
Coke, petroleum products and nuclear fuel	11 823	12 346	11 797	13 037	13 614	13 757
Basic chemicals	7 868	8 118	8 534	9 066	9 398	7 856
Other chemical products	10 676	11 588	12 012	11 813	12 248	10 950
Rubber products	1 410	1 445	1 397	1 553	1 583	1 079
Plastic products	5 351	5 399	5 573	6 289	6 666	4 751
Glass and non-metallic mineral products	5 583	5 900	5 736	6 379	6 613	4 110
Glass and glass products	907	1 026	1 079	1 280	1 297	934
Non-metallic mineral products	4 676	4 873	4 657	5 099	5 316	3 175
Basic iron and steel, non-ferrous metal products, metal products and machinery	36 890	38 471	38 883	42 349	46 024	33 476
Basic iron and steel products	10 069	10 850	11 081	12 461	14 185	8 552
Non-ferrous metal products	8 389	8 618	9 204	10 103	10 959	9 506
Structural metal products	2 915	2 892	3 002	3 011	3 619	2 063
Other fabricated metal products	6 427	6 851	6 515	7 128	7 662	5 164
General purpose machinery	3 181	3 386	3 304	3 567	3 627	2 952
Special purpose machinery	4 818	4 781	4 617	4 830	4 725	4 275
Household appliances	1 091	1 093	1 161	1 248	1 247	964
Electrical machinery	4 582	4 715	4 943	4 830	5 274	3 997
Radio, television and communication apparatus and professional equipment	2 204	2 293	2 380	2 302	2 595	2 390
Radio, television and communication apparatus	1 401	1 560	1 559	1 475	1 749	1 453
Professional equipment	802	733	821	827	846	937
Motor vehicles, parts and accessories and other transport equipment	24 890	26 683	27 458	26 538	30 133	19 813
Motor vehicles	14 101	15 217	15 370	15 045	17 171	11 457
Bodies for motor vehicles, trailers and semi-trailers	1 005	1 066	1 034	1 201	1 293	774
Parts and accessories	7 287	7 577	7 440	7 561	8 690	4 883
Other transport equipment	2 497	2 822	3 614	2 731	2 980	2 700
Furniture and other manufacturing	6 512	6 779	6 782	7 580	8 160	6 762
Furniture	1 376	1 486	1 384	1 696	1 854	1 262
Other manufacturing groups	5 135	5 293	5 398	5 884	6 306	5 499
Total	175 257	186 752	188 992	198 074	214 511	174 812

¹ The latest three months are preliminary.

* Revised.

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

Manufacturing division and major group	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Food and beverages	-0,1	5,5	-1,7	6,1	5,6	0,3
Meat, fish, fruit, etc.	1,6	9,2	0,2	4,8	10,1	1,9
Dairy products	4,0	8,1	5,4	8,9	11,6	2,3
Grain mill products	-14,3	-14,3	-19,9	-15,7	-14,2	-14,1
Other food products	1,7	10,6	-0,5	10,7	13,4	3,9
Beverages	5,2	9,3	4,2	16,4	4,6	2,5
Textiles, clothing, leather and footwear	-1,8	1,3	-1,5	2,1	2,0	4,1
Textiles	6,0	4,1	-2,8	4,3	-0,5	-4,6
Other textile products	0,1	2,7	0,4	8,2	4,7	8,9
Knitted, crocheted articles	-1,7	13,0	9,2	2,5	9,1	0,6
Wearing apparel	-6,2	-2,7	-5,3	-4,9	-2,6	-1,6
Leather and leather products	5,2	8,2	6,2	9,4	7,2	15,4
Footwear	-8,4	-5,5	-5,6	0,4	6,5	10,5
Wood and wood products, paper, publishing and printing	-0,3	5,1	-4,2	1,2	6,0	-0,5
Sawmilling and planing of wood	-9,3	7,3	4,2	11,3	8,4	-13,3
Products of wood	-2,2	4,3	-6,2	-2,0	5,1	-0,6
Paper and paper products	1,3	8,9	-6,2	3,9	11,4	8,4
Publishing	7,8	5,8	0,8	-5,5	5,7	-11,0
Printing, recorded media	-3,7	-4,1	-3,4	-1,6	-4,4	-10,0
Petroleum, chemical products, rubber and plastic products	2,3	2,8	5,4	5,1	4,0	10,5
Coke, petroleum products and nuclear fuel	-1,5	3,9	15,3	12,7	9,0	16,5
Basic chemicals	6,3	-0,6	-1,7	-2,1	0,7	7,2
Other chemical products	6,5	6,6	9,2	4,7	3,2	12,8
Rubber products	0,4	1,9	-2,5	6,7	2,7	-2,4
Plastic products	-2,2	-1,7	-6,6	1,6	0,8	-1,0
Glass and non-metallic mineral products	3,8	5,5	-3,2	9,9	7,7	9,1
Glass and glass products	2,6	2,2	2,4	21,6	12,7	12,9
Non-metallic mineral products	4,0	6,2	-4,4	7,3	6,5	8,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	6,5	7,3	5,6	14,2	16,9	7,8
Basic iron and steel products	14,9	21,5	15,7	25,6	37,5	8,7
Non-ferrous metal products	3,9	-1,4	6,5	23,2	24,1	19,3
Structural metal products	4,0	-0,1	-2,1	1,2	8,1	-1,9
Other fabricated metal products	2,8	6,2	-2,3	4,9	2,0	13,9
General purpose machinery	3,9	0,2	0,7	2,6	1,1	-1,7
Special purpose machinery	4,6	11,2	6,5	8,0	6,2	-8,3
Household appliances	0,8	-5,0	-6,3	1,2	-5,8	4,3
Electrical machinery	-9,1	-5,7	-12,7	-0,8	-4,9	-5,1
Radio, television and communication apparatus and professional equipment	-1,8	-0,6	-3,7	-12,3	-6,1	5,4
Radio, television and communication apparatus	0,1	13,3	2,8	-12,9	0,9	3,7
Professional equipment	-5,1	-21,1	-14,0	-11,4	-17,9	8,2
Motor vehicles, parts and accessories and other transport equipment	3,2	7,1	7,7	9,3	18,7	23,6
Motor vehicles	5,7	14,0	14,7	6,3	20,0	38,6
Bodies for motor vehicles, trailers and semi-trailers	-5,6	4,9	-2,2	13,9	11,9	5,7
Parts and accessories	-2,4	-3,5	3,3	12,8	21,1	19,9
Other transport equipment	11,4	4,5	-6,0	15,9	8,8	-8,8
Furniture and other manufacturing	9,2	11,7	7,4	14,9	17,4	11,9
Furniture	4,2	5,9	-1,3	2,9	4,3	10,2
Other manufacturing groups	10,5	13,5	9,9	18,9	21,9	12,2
Total	2,3	5,2	2,2	7,4	9,2	6,7

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

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

Manufacturing division and major group	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Month-on-month % change
Food and beverages	43 428	42 569	43 605	45 035	42 544	-5,5
Meat, fish, fruit, etc.	12 504	12 180	12 196	12 996	12 322	-5,2
Dairy products	3 633	3 531	3 587	3 741	3 389	-9,4
Grain mill products	5 890	5 722	5 834	5 940	5 849	-1,5
Other food products	9 779	9 532	10 055	10 505	9 388	-10,6
Beverages	11 622	11 605	11 933	11 853	11 597	-2,2
Textiles, clothing, leather and footwear	4 851	4 811	4 810	4 864	4 919	1,1
Textiles	709	693	716	699	660	-5,6
Other textile products	1 252	1 271	1 257	1 260	1 291	2,5
Knitted, crocheted articles	238	242	230	232	233	0,4
Wearing apparel	1 602	1 554	1 531	1 569	1 571	0,1
Leather and leather products	604	604	615	598	640	7,0
Footwear	446	448	460	507	524	3,4
Wood and wood products, paper, publishing and printing	13 165	13 043	13 145	13 614	13 232	-2,8
Sawmilling and planing of wood	1 039	1 002	1 066	1 013	867	-14,4
Products of wood	1 732	1 685	1 778	1 794	1 744	-2,8
Paper and paper products	6 282	6 275	6 291	6 698	6 563	-2,0
Publishing	1 643	1 608	1 478	1 657	1 410	-14,9
Printing, recorded media	2 469	2 474	2 532	2 452	2 648	8,0
Petroleum, chemical products, rubber and plastic products	37 571	38 138	37 913	38 552	40 395	4,8
Coke, petroleum products and nuclear fuel	12 153	12 511	12 440	12 929	13 296	2,8
Basic chemicals	7 899	7 966	7 825	8 006	8 554	6,8
Other chemical products	10 860	11 064	10 838	10 808	11 639	7,7
Rubber products	1 383	1 372	1 423	1 393	1 418	1,8
Plastic products	5 277	5 224	5 387	5 417	5 488	1,3
Glass and non-metallic mineral products	5 384	5 218	5 512	5 527	5 574	0,9
Glass and glass products	937	954	998	997	1 007	1,0
Non-metallic mineral products	4 446	4 264	4 514	4 530	4 567	0,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	37 867	37 816	39 541	42 434	39 809	-6,2
Basic iron and steel products	10 985	10 909	11 835	13 661	11 199	-18,0
Non-ferrous metal products	8 692	9 116	9 553	10 464	9 778	-6,6
Structural metal products	2 770	2 838	2 798	3 016	2 753	-8,7
Other fabricated metal products	6 387	6 071	6 409	6 575	7 049	7,2
General purpose machinery	3 219	3 172	3 239	3 248	3 218	-0,9
Special purpose machinery	4 711	4 583	4 576	4 398	4 593	4,4
Household appliances	1 104	1 127	1 131	1 073	1 218	13,5
Electrical machinery	4 511	4 457	4 634	4 598	4 956	7,8
Radio, television and communication apparatus and professional equipment	2 138	2 165	2 080	2 123	2 362	11,3
Radio, television and communication apparatus	1 384	1 395	1 289	1 354	1 415	4,5
Professional equipment	754	771	791	768	947	23,3
Motor vehicles, parts and accessories and other transport equipment	25 751	25 688	24 006	27 252	25 669	-5,8
Motor vehicles	14 874	14 459	13 150	15 490	14 205	-8,3
Bodies for motor vehicles, trailers and semi-trailers	1 015	988	1 070	1 037	1 089	5,0
Parts and accessories	7 034	7 251	7 074	7 817	7 764	-0,7
Other transport equipment	2 828	2 990	2 712	2 907	2 612	-10,1
Furniture and other manufacturing	6 474	6 543	6 791	7 092	7 052	-0,6
Furniture	1 427	1 298	1 328	1 386	1 434	3,5
Other manufacturing groups	5 047	5 244	5 463	5 706	5 618	-1,5
Total	181 138	180 449	182 036	191 091	186 513	-2,4

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 December 2017 was 85,3%. The improved collection rate for November 2017 was 88,0%.
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 2017	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 need to be calculated from time to time.

Table E – Weights by division and major group

Manufacturing division and major group	Weights used for manufacturing indices by period		
	2013 (based on value added for 2013)	2014 (based on value added for 2013 – 2014)	2015 – 2017 (based on value added for 2013 – 2015)
Food and beverages	24,53	24,72	25,15
Meat, fish, fruit, etc.	5,99	6,26	6,39
Dairy products	1,81	1,84	1,89
Grain mill products	2,61	2,75	2,86
Other food products	7,78	7,61	7,62
Beverages	6,34	6,26	6,39
Textiles, clothing, leather and footwear	3,34	3,33	3,28
Textiles	0,89	0,86	0,83
Other textile products	0,36	0,40	0,41
Knitted, crocheted articles	0,09	0,09	0,09
Wearing apparel	1,13	1,12	1,10
Leather and leather products	0,50	0,50	0,49
Footwear	0,37	0,36	0,36
Wood and wood products, paper, publishing and printing	12,62	11,73	11,62
Sawmilling and planing of wood	1,81	1,70	1,71
Products of wood	2,47	2,29	2,37
Paper and paper products	4,96	4,44	4,33
Publishing	1,55	1,52	1,49
Printing, recorded media	1,83	1,78	1,72
Petroleum, chemical products, rubber and plastic products	23,58	24,04	24,01
Coke, petroleum products and nuclear fuel	9,01	9,34	9,29
Basic chemicals	4,08	4,26	4,36
Other chemical products	6,21	6,11	6,16
Rubber products	1,35	1,37	1,34
Plastic products	2,93	2,96	2,86
Glass and non-metallic mineral products	4,15	4,14	3,90
Glass and glass products	0,83	0,78	0,74
Non-metallic mineral products	3,32	3,36	3,16
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,77	18,69	18,72
Basic iron and steel products	3,27	3,27	3,44
Non-ferrous metal products (including precious metals)	3,11	2,93	2,73
Structural metal products	1,83	1,83	1,86
Other fabricated metal products	3,92	3,86	3,86
General purpose machinery	2,37	2,46	2,51
Special purpose machinery	3,44	3,52	3,51
Household appliances	0,83	0,82	0,81
Electrical machinery	1,67	1,65	1,65
Radio, television and communication apparatus and professional equipment	1,55	1,63	1,61
Radio, television and communication apparatus	0,90	0,96	0,93
Professional equipment	0,65	0,67	0,68
Motor vehicles, parts and accessories and other transport equipment	6,85	6,91	6,86
Motor vehicles	2,47	2,44	2,43
Bodies for motor vehicles, trailers and semi-trailers	0,44	0,49	0,46
Parts and accessories	2,78	2,78	2,76
Other transport equipment	1,16	1,20	1,21
Furniture and other manufacturing	2,94	3,16	3,20
Furniture	1,06	1,07	1,09
Other manufacturing groups	1,88	2,09	2,11
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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