

STATISTICAL RELEASE

P3041.2

Manufacturing: Production and sales (Preliminary)

August 2017

Embargoed until:
10 October 2017
13:00

ENQUIRIES:
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FORTHCOMING ISSUE:
September 2017

EXPECTED RELEASE DATE:
9 November 2017

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Production: results for August 2017

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

	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Year-on-year % change, unadjusted	0,3	-4,5	-1,0	-2,1	-1,1	1,5
Month-on-month % change, seasonally adjusted	0,0	1,8	-0,6	0,0	1,5	0,3
3-month % change, seasonally adjusted ¹	-1,1	-1,4	-0,4	0,8	1,1	1,3

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

Manufacturing production increased by 1,5% in August 2017 compared with August 2016. This increase was mainly due to higher production in the basic iron and steel, non-ferrous metal products, metal products and machinery division (11,3% and contributing 2,0 percentage points) – see Tables 5 and 6.

Seasonally adjusted manufacturing production increased by 0,3% in August 2017 compared with July 2017. This followed month-on-month changes of 1,5% in July 2017 and 0,0% in June 2017 – see Table A.

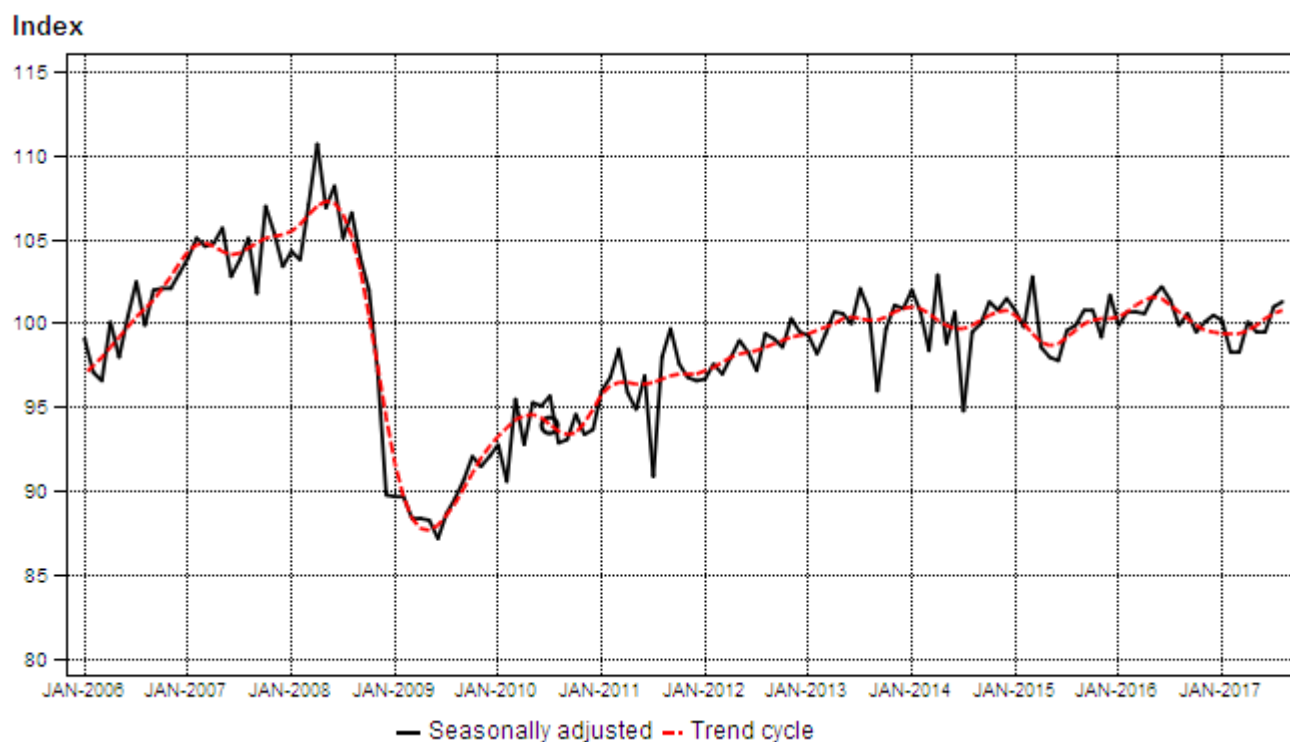
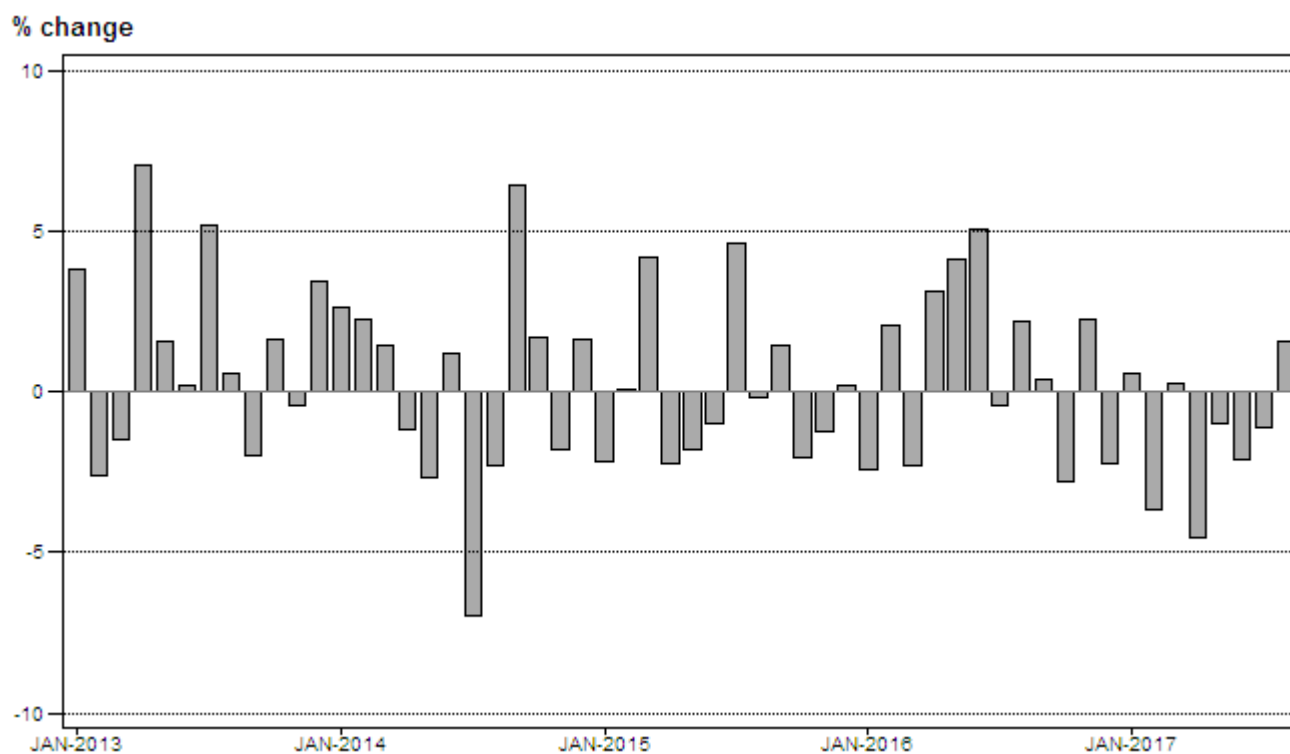
Seasonally adjusted manufacturing production increased by 1,3% in the three months ended August 2017 compared with the previous three months. Six of the ten manufacturing divisions reported positive growth rates over this period.

The largest contributions to the 1,3% increase were made by the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (2,5% and contributing 0,5 of a percentage point);
- petroleum, chemical products, rubber and plastic products (1,6% and contributing 0,4 of a percentage point);
- motor vehicles, parts and accessories and other transport equipment (3,9% and contributing 0,3 of a percentage point); and
- furniture and 'other' manufacturing (7,1% and contributing 0,2 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	Mar – May 2017	Jun – Aug 2017	% change between Mar – May 2017 and Jun – Aug 2017	Contribution (% points) to the total % change
Food and beverages	25,15	100,6	101,1	0,5	0,1
Meat, fish, fruit, etc.	6,39	98,1	99,0	0,9	0,1
Dairy products	1,89	100,2	101,4	1,2	0,0
Grain mill products	2,86	94,7	95,4	0,7	0,0
Other food products	7,62	102,0	104,5	2,5	0,2
Beverages	6,39	104,2	101,5	-2,6	-0,2
Textiles, clothing, leather and footwear	3,28	95,1	95,1	0,0	0,0
Textiles	0,83	106,3	109,2	2,7	0,0
Other textile products	0,41	98,2	99,6	1,4	0,0
Knitted, crocheted articles	0,09	92,6	95,8	3,5	0,0
Wearing apparel	1,10	89,9	88,4	-1,7	0,0
Leather and leather products	0,49	88,3	83,1	-5,9	0,0
Footwear	0,36	91,9	94,1	2,4	0,0
Wood and wood products, paper, publishing and printing	11,62	100,7	99,8	-0,9	-0,1
Sawmilling and planing of wood	1,71	111,1	112,2	1,0	0,0
Products of wood	2,37	99,5	102,6	3,1	0,1
Paper and paper products	4,33	99,8	96,7	-3,1	-0,1
Publishing	1,49	94,6	94,3	-0,3	0,0
Printing, recorded media	1,72	99,1	96,1	-3,0	-0,1
Petroleum, chemical products, rubber and plastic products	24,01	97,6	99,2	1,6	0,4
Coke, petroleum products and nuclear fuel	9,29	92,1	96,5	4,8	0,4
Basic chemicals	4,36	101,3	100,1	-1,2	-0,1
Other chemical products	6,16	103,5	102,0	-1,4	-0,1
Rubber products	1,34	101,5	100,7	-0,8	0,0
Plastic products	2,86	95,1	100,2	5,4	0,1
Glass and non-metallic mineral products	3,90	97,0	97,0	0,0	0,0
Glass and glass products	0,74	101,5	101,3	-0,2	0,0
Non-metallic mineral products	3,16	96,0	96,0	0,0	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	101,5	104,0	2,5	0,5
Basic iron and steel products	3,44	110,9	110,2	-0,6	0,0
Non-ferrous metal products	2,73	104,5	110,7	5,9	0,2
Structural metal products	1,86	91,1	93,4	2,5	0,0
Other fabricated metal products	3,86	101,4	103,0	1,6	0,1
General purpose machinery	2,51	96,5	95,7	-0,8	0,0
Special purpose machinery	3,51	102,1	109,0	6,8	0,2
Household appliances	0,81	87,6	88,0	0,5	0,0
Electrical machinery	1,65	89,8	91,7	2,1	0,0
Radio, television and communication apparatus and professional equipment	1,61	112,9	104,5	-7,4	-0,1
Radio, television and communication	0,93	116,4	111,5	-4,2	0,0
Professional equipment	0,68	108,1	95,0	-12,1	-0,1
Motor vehicles, parts and accessories and other transport equipment	6,86	98,5	102,3	3,9	0,3
Motor vehicles	2,43	95,2	99,7	4,7	0,1
Bodies for motor vehicles, trailers and semi-	0,46	102,1	104,9	2,7	0,0
Parts and accessories	2,76	102,7	106,9	4,1	0,1
Other transport equipment	1,21	94,0	96,2	2,3	0,0
Furniture and other manufacturing	3,20	92,4	99,0	7,1	0,2
Furniture	1,09	97,0	95,0	-2,1	0,0
Other manufacturing groups	2,11	90,1	101,1	12,2	0,2
Total	100	99,3	100,6	1,3	1,3

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 August 2017**Table C – Key growth rates in manufacturing sales at current prices**

	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Year-on-year % change, unadjusted	7,7	-1,4	3,5	3,3	2,4	5,6
Month-on-month % change, seasonally adjusted	0,8	1,0	1,5	-0,1	0,4	1,4
3-month % change, seasonally adjusted ¹	0,7	0,0	1,5	2,0	2,5	2,0

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

Seasonally adjusted manufacturing sales increased by 1,4% in August 2017 compared with July 2017. This followed month-on-month changes of 0,4% in July 2017 and -0,1% in June 2017 – see Table C.

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

Manufacturing division	Mar – May 2017 (R million)	Jun – Aug 2017 (R million)	% change between Mar – May 2017 and Jun – Aug 2017	Contribution (% points) to the total % change
Food and beverages	127 508	129 125	1,3	0,3
Textiles, clothing, leather and footwear	13 919	14 282	2,6	0,1
Wood and wood products, paper, publishing and printing	39 285	39 316	0,1	0,0
Petroleum, chemical products, rubber and plastic products	110 170	112 389	2,0	0,4
Glass and non-metallic mineral products	15 932	16 100	1,1	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	113 605	112 798	-0,7	-0,2
Electrical machinery	13 615	13 709	0,7	0,0
Radio, television and communication apparatus and professional equipment	7 327	6 618	-9,7	-0,1
Motor vehicles, parts and accessories and other transport equipment	68 262	75 268	10,3	1,3
Furniture and other manufacturing	18 885	19 565	3,6	0,1
Total	528 510	539 170	2,0	2,0

PJ Lehohla
Statistician-General

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	100,5
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	
Oct	106,0	109,5	111,3	113,2	110,9	107,8	
Nov	109,4	113,6	113,1	111,1	109,7	112,2	
Dec	87,7	89,3	92,4	93,9	94,1	92,0	
Total	96,5	98,6	99,9	100,0	100,0	100,7	

¹ The latest three months are preliminary.

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

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	102,0	100,8	99,9	100,2	1,1	-0,7	-1,8	-0,3
Feb	100,7	99,8	100,7	98,3	-1,3	-1,0	0,8	-1,9
Mar	98,4	102,8	100,7	98,3	-2,3	3,0	0,0	0,0
Apr	102,9	98,6	100,6	100,1	4,6	-4,1	-0,1	1,8
May	98,8	98,0	101,6	99,5	-4,0	-0,6	1,0	-0,6
Jun	100,7	97,8	102,2	99,5	1,9	-0,2	0,6	0,0
Jul	94,8	99,6	101,4	101,0	-5,9	1,8	-0,8	1,5
Aug	99,5	99,9	99,9	101,3	5,0	0,3	-1,5	0,3
Sep	100,0	100,8	100,6		0,5	0,9	0,7	
Oct	101,3	100,8	99,5		1,3	0,0	-1,1	
Nov	100,8	99,2	100,1		-0,5	-1,6	0,6	
Dec	101,5	101,7	100,5		0,7	2,5	0,4	

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

Manufacturing division and major group	Weights	Mar-17	Apr-17	May-17	¹ Jun-17	¹ Jul-17	¹ Aug-17
Food and beverages	25,15	96,3	94,6	101,3	102,0	97,5	104,9
Meat, fish, fruit, etc.	6,39	101,3	93,8	101,3	99,9	95,0	101,5
Dairy products	1,89	102,4	93,4	93,6	92,0	93,2	104,0
Grain mill products	2,86	99,4	86,2	97,5	96,8	97,0	98,8
Other food products	7,62	85,1	99,1	110,3	117,5	111,1	117,5
Beverages	6,39	101,3	94,3	94,5	91,1	85,3	96,3
Textiles, clothing, leather and footwear	3,28	102,0	88,7	97,9	91,8	97,0	97,5
Textiles	0,83	117,3	97,6	118,2	109,0	112,4	108,0
Other textile products	0,41	104,2	90,2	104,4	102,9	99,9	99,5
Knitted, crocheted articles	0,09	102,7	93,0	103,1	91,7	106,9	87,1
Wearing apparel	1,10	97,6	79,1	88,7	79,2	97,8	93,1
Leather and leather products	0,49	86,9	94,6	88,6	88,4	68,1	87,0
Footwear	0,36	97,9	87,2	83,6	82,6	92,3	101,5
Wood and wood products, paper, publishing and printing	11,62	103,7	89,0	98,6	100,7	99,3	102,6
Sawmilling and planing of wood	1,71	120,3	104,1	114,9	110,8	121,8	116,4
Products of wood	2,37	102,4	92,8	96,8	108,1	101,4	108,1
Paper and paper products	4,33	106,7	87,7	97,2	100,4	92,6	97,0
Publishing	1,49	89,0	78,7	90,6	90,3	90,4	98,8
Printing, recorded media	1,72	94,2	81,1	95,7	90,2	98,6	98,9
Petroleum, chemical products, rubber and plastic products	24,01	98,9	91,7	95,1	96,3	99,8	104,1
Coke, petroleum products and nuclear fuel	9,29	96,7	95,9	83,8	83,5	101,0	105,0
Basic chemicals	4,36	92,3	91,4	105,6	100,8	100,7	102,7
Other chemical products	6,16	104,7	90,3	102,9	109,0	97,3	104,3
Rubber products	1,34	116,0	86,8	108,3	108,7	99,8	100,1
Plastic products	2,86	95,4	83,7	92,7	98,2	99,6	104,8
Glass and non-metallic mineral products	3,90	103,2	84,9	102,0	103,3	101,9	106,5
Glass and glass products	0,74	93,5	88,5	94,8	99,7	104,2	110,0
Non-metallic mineral products	3,16	105,5	84,1	103,7	104,1	101,3	105,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	111,0	94,1	106,0	106,1	105,2	107,6
Basic iron and steel products	3,44	120,5	115,2	122,2	102,0	107,9	110,5
Non-ferrous metal products	2,73	111,4	104,6	105,2	110,6	114,6	111,3
Structural metal products	1,86	97,2	78,3	92,3	108,9	92,3	91,7
Other fabricated metal products	3,86	108,1	88,6	109,1	106,8	105,8	110,1
General purpose machinery	2,51	99,7	86,8	100,4	100,4	96,9	101,6
Special purpose machinery	3,51	123,5	87,1	102,6	112,9	111,1	115,8
Household appliances	0,81	94,9	84,7	88,5	86,7	89,5	91,4
Electrical machinery	1,65	102,9	77,6	93,3	100,1	94,2	94,5
Radio, television and communication apparatus and professional equipment	1,61	111,5	103,7	104,1	98,7	106,7	109,1
Radio, television and communication apparatus	0,93	110,9	95,8	103,5	102,3	113,6	124,9
Professional equipment	0,68	112,2	114,4	105,0	93,8	97,4	87,8
Motor vehicles, parts and accessories and other transport equipment	6,86	110,0	84,6	104,6	112,2	102,6	110,8
Motor vehicles	2,43	101,9	78,1	106,5	111,6	108,2	109,6
Bodies for motor vehicles, trailers and semi-trailers	0,46	110,7	92,4	109,4	108,3	103,2	120,6
Parts and accessories	2,76	110,8	95,0	113,1	107,8	106,2	118,4
Other transport equipment	1,21	124,2	71,1	79,8	124,9	82,9	92,1
Furniture and other manufacturing	3,20	79,4	71,8	101,6	102,6	103,2	102,8
Furniture	1,09	91,9	83,1	94,7	90,4	94,9	106,9
Other manufacturing groups	2,11	73,0	66,0	105,1	108,9	107,6	100,7
Total	100	101,7	91,0	100,4	101,6	100,5	105,0

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

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	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Food and beverages	25,15	-0,1	0,4	0,6	0,5	0,0	0,0
Meat, fish, fruit, etc.	6,39	-0,1	-0,1	-0,1	-0,1	-0,1	0,1
Dairy products	1,89	-0,1	-0,1	0,1	0,1	0,0	0,1
Grain mill products	2,86	-0,1	-0,3	-0,2	-0,2	0,0	-0,1
Other food products	7,62	-0,1	0,3	0,7	0,6	0,3	-0,2
Beverages	6,39	0,2	0,5	0,0	0,1	-0,2	0,0
Textiles, clothing, leather and footwear	3,28	0,1	-0,3	0,0	-0,2	-0,1	-0,1
Textiles	0,83	0,0	-0,1	0,1	0,0	0,1	0,0
Other textile products	0,41	0,0	-0,1	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	-0,1
Leather and leather products	0,49	0,0	0,0	0,0	-0,1	0,0	0,0
Footwear	0,36	0,0	0,0	0,0	0,0	-0,1	0,0
Wood and wood products, paper, publishing and printing	11,62	-0,2	-0,4	-0,4	-0,5	-0,4	-0,1
Sawmilling and planing of wood	1,71	0,2	0,0	-0,1	0,0	0,1	0,1
Products of wood	2,37	-0,1	-0,1	-0,1	0,1	0,0	0,0
Paper and paper products	4,33	-0,2	-0,1	0,0	-0,3	-0,3	-0,1
Publishing	1,49	-0,1	-0,1	-0,1	-0,2	-0,1	0,0
Printing, recorded media	1,72	0,0	0,0	-0,1	-0,1	-0,2	-0,1
Petroleum, chemical products, rubber and plastic products	24,01	-1,4	-1,6	-2,1	-2,5	-1,5	-0,2
Coke, petroleum products and nuclear fuel	9,29	-1,6	-1,2	-2,0	-2,0	-1,0	0,1
Basic chemicals	4,36	-0,2	0,1	0,0	-0,6	-0,1	-0,1
Other chemical products	6,16	0,2	-0,3	-0,1	0,0	-0,4	-0,4
Rubber products	1,34	0,2	-0,1	0,0	0,1	-0,1	0,0
Plastic products	2,86	0,0	-0,2	0,0	0,1	0,0	0,1
Glass and non-metallic mineral products	3,90	0,3	-0,5	-0,1	-0,1	-0,1	0,1
Glass and glass products	0,74	0,0	0,0	-0,1	-0,1	0,1	0,0
Non-metallic mineral products	3,16	0,3	-0,4	0,0	0,0	-0,1	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	1,2	-0,2	1,1	0,7	1,3	2,0
Basic iron and steel products	3,44	0,4	0,2	0,0	-0,3	0,3	0,7
Non-ferrous metal products	2,73	0,2	0,2	0,1	0,2	0,4	0,3
Structural metal products	1,86	0,0	-0,2	-0,1	0,2	0,0	0,0
Other fabricated metal products	3,86	0,1	-0,3	0,2	0,1	0,0	0,1
General purpose machinery	2,51	0,1	0,0	0,2	-0,1	0,1	0,0
Special purpose machinery	3,51	0,4	-0,2	0,6	0,6	0,3	0,9
Household appliances	0,81	0,0	0,0	0,0	0,0	0,1	0,0
Electrical machinery	1,65	-0,2	-0,3	-0,1	-0,1	-0,1	0,0
Radio, television and communication apparatus and professional equipment	1,61	0,1	0,3	0,1	-0,2	0,0	-0,1
Radio, television and communication apparatus	0,93	0,1	0,1	0,1	-0,1	0,0	0,1
Professional equipment	0,68	0,0	0,1	0,0	-0,1	0,0	-0,1
Motor vehicles, parts and accessories and other transport equipment	6,86	0,4	-1,3	-0,2	0,1	-0,2	0,0
Motor vehicles	2,43	0,0	-0,8	-0,2	0,2	0,0	-0,1
Bodies for motor vehicles, trailers and semi-trailers	0,46	0,1	0,0	0,0	0,0	0,0	0,1
Parts and accessories	2,76	0,2	-0,3	0,0	0,0	-0,2	0,1
Other transport equipment	1,21	0,1	-0,1	-0,1	-0,1	0,0	0,0
Furniture and other manufacturing	3,20	0,0	-0,5	0,0	0,2	0,1	-0,2
Furniture	1,09	0,2	0,0	0,0	0,0	0,0	0,0
Other manufacturing groups	2,11	-0,1	-0,5	0,0	0,2	0,1	-0,2
Total	100	0,3	-4,5	-1,0	-2,1	-1,1	1,5

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	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Month-on-month % change
Food and beverages	25,15	103,0	101,0	101,9	101,2	100,2	-1,0
Meat, fish, fruit, etc.	6,39	99,7	98,6	98,9	98,6	99,5	0,9
Dairy products	1,89	99,7	101,7	100,4	100,4	103,5	3,1
Grain mill products	2,86	95,2	94,7	94,0	96,5	95,8	-0,7
Other food products	7,62	105,0	104,7	106,7	104,9	101,8	-3,0
Beverages	6,39	108,2	101,8	103,0	101,6	100,0	-1,6
Textiles, clothing, leather and footwear	3,28	93,9	96,4	93,3	96,9	95,0	-2,0
Textiles	0,83	103,9	110,4	104,8	116,8	106,0	-9,2
Other textile products	0,41	97,9	99,7	98,9	99,3	100,6	1,3
Knitted, crocheted articles	0,09	90,9	93,1	94,2	98,0	95,3	-2,8
Wearing apparel	1,10	86,3	91,7	86,3	90,6	88,3	-2,5
Leather and leather products	0,49	92,0	86,1	83,7	79,4	86,2	8,6
Footwear	0,36	93,2	89,8	94,7	91,4	96,1	5,1
Wood and wood products, paper, publishing and printing	11,62	100,8	101,0	99,5	99,3	100,6	1,3
Sawmilling and planing of wood	1,71	110,9	111,4	106,2	116,5	114,0	-2,1
Products of wood	2,37	101,0	98,6	102,9	102,0	102,8	0,8
Paper and paper products	4,33	98,7	100,7	97,5	95,7	97,0	1,4
Publishing	1,49	93,5	96,5	94,5	91,7	96,7	5,5
Printing, recorded media	1,72	101,8	98,7	97,3	94,5	96,4	2,0
Petroleum, chemical products, rubber and plastic products	24,01	99,5	95,4	95,4	100,7	101,6	0,9
Coke, petroleum products and nuclear fuel	9,29	95,9	83,8	83,5	101,0	105,0	4,0
Basic chemicals	4,36	102,1	104,6	101,1	100,3	98,8	-1,5
Other chemical products	6,16	104,7	104,7	105,0	101,8	99,3	-2,5
Rubber products	1,34	102,8	101,2	104,1	97,9	100,2	2,3
Plastic products	2,86	94,7	96,7	100,4	99,5	100,6	1,1
Glass and non-metallic mineral products	3,90	93,9	96,6	96,8	96,4	97,7	1,3
Glass and glass products	0,74	99,6	102,0	100,5	100,8	102,5	1,7
Non-metallic mineral products	3,16	92,6	95,3	95,9	95,4	96,6	1,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	100,3	102,5	102,6	104,7	104,7	0,0
Basic iron and steel products	3,44	110,1	109,1	101,7	113,9	114,9	0,9
Non-ferrous metal products	2,73	105,9	103,0	109,3	114,0	108,9	-4,5
Structural metal products	1,86	91,2	91,3	99,4	92,2	88,7	-3,8
Other fabricated metal products	3,86	98,7	103,6	102,4	102,8	103,9	1,1
General purpose machinery	2,51	95,5	98,1	97,0	95,3	94,7	-0,6
Special purpose machinery	3,51	98,5	107,1	108,3	107,3	111,5	3,9
Household appliances	0,81	90,3	86,6	85,2	89,2	89,6	0,4
Electrical machinery	1,65	87,6	92,5	90,5	91,6	92,9	1,4
Radio, television and communication apparatus and professional equipment	1,61	117,6	111,4	100,7	107,9	105,0	-2,7
Radio, television and communication apparatus	0,93	116,2	116,4	109,5	112,4	112,7	0,3
Professional equipment	0,68	119,4	104,7	88,7	101,8	94,5	-7,2
Motor vehicles, parts and accessories and other transport equipment	6,86	99,9	98,6	102,8	101,0	103,2	2,2
Motor vehicles	2,43	96,4	97,8	102,4	100,2	96,6	-3,6
Bodies for motor vehicles, trailers and semi-trailers	0,46	103,1	101,8	100,0	101,7	112,9	11,0
Parts and accessories	2,76	105,9	102,1	105,2	104,2	111,3	6,8
Other transport equipment	1,21	92,3	90,8	99,5	94,8	94,2	-0,6
Furniture and other manufacturing	3,20	91,5	103,1	99,5	98,9	98,6	-0,3
Furniture	1,09	95,0	95,5	91,8	91,4	101,8	11,4
Other manufacturing groups	2,11	89,8	107,0	103,4	102,8	97,0	-5,6
Total	100	100,1	99,5	99,5	101,0	101,3	0,3

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	175 475
Aug	130 032	139 669	149 163	161 892	162 095	177 560	187 494
Sep	138 165	136 810	145 373	168 492	172 905	184 969	
Oct	139 095	149 849	162 067	181 689	179 213	184 382	
Nov	144 755	158 942	168 049	176 621	180 154	196 523	
Dec	121 978	127 874	145 135	153 198	156 484	163 764	
Total	1 499 181	1 617 770	1 749 852	1 899 636	1 934 410	2 059 248	

¹ The latest three months are preliminary.

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	2,4	3,5
Aug	7,4	6,8	8,5	0,1	9,5	5,6	3,7
Sep	-1,0	6,3	15,9	2,6	7,0		
Oct	7,7	8,2	12,1	-1,4	2,9		
Nov	9,8	5,7	5,1	2,0	9,1		
Dec	4,8	13,5	5,6	2,1	4,7		
Total	7,9	8,2	8,6	1,8	6,5		

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	156 279	158 317	165 346	175 436	1,3	-1,5	1,4	1,6
Feb	158 627	155 990	168 301	172 762	1,5	-1,5	1,8	-1,5
Mar	153 470	162 639	168 242	174 152	-3,3	4,3	0,0	0,8
Apr	160 038	158 869	169 057	175 903	4,3	-2,3	0,5	1,0
May	153 862	160 277	174 357	178 455	-3,9	0,9	3,1	1,5
Jun	159 582	159 689	173 980	178 339	3,7	-0,4	-0,2	-0,1
Jul	150 524	162 341	173 394	179 133	-5,7	1,7	-0,3	0,4
Aug	160 121	161 297	171 857	181 698	6,4	-0,6	-0,9	1,4
Sep	160 020	163 739	173 606		-0,1	1,5	1,0	
Oct	163 714	163 630	171 128		2,3	-0,1	-1,4	
Nov	161 101	161 681	174 675		-1,6	-1,2	2,1	
Dec	160 792	163 002	172 719		-0,2	0,8	-1,1	

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

Manufacturing division and major group	Mar-17	Apr-17	May-17	¹ Jun-17	¹ Jul-17	¹ Aug-17
Food and beverages	42 298	39 811	41 035	42 238	39 837	44 261
Meat, fish, fruit, etc.	12 365	11 288	12 175	12 297	11 885	12 868
Dairy products	3 608	3 295	3 388	3 248	3 298	3 682
Grain mill products	6 635	5 641	6 242	6 077	5 933	6 147
Other food products	8 215	9 277	9 116	9 869	9 448	10 262
Beverages	11 475	10 310	10 115	10 747	9 274	11 302
Textiles, clothing, leather and footwear	5 006	4 333	4 750	4 647	4 771	4 974
Textiles	752	657	766	705	710	711
Other textile products	1 236	1 066	1 224	1 250	1 222	1 252
Knitted, crocheted articles	256	228	251	234	244	218
Wearing apparel	1 704	1 407	1 552	1 436	1 671	1 703
Leather and leather products	586	557	563	599	485	627
Footwear	472	417	394	423	439	463
Wood and wood products, paper, publishing and printing	13 428	11 047	13 006	13 212	12 794	13 563
Sawmilling and planing of wood	1 087	741	1 052	1 016	1 059	1 094
Products of wood	1 760	1 457	1 677	1 926	1 613	1 807
Paper and paper products	6 690	5 407	6 301	6 479	5 967	6 426
Publishing	1 460	1 381	1 509	1 487	1 585	1 660
Printing, recorded media	2 431	2 062	2 467	2 304	2 569	2 577
Petroleum, chemical products, rubber and plastic products	36 416	33 199	37 866	37 792	37 072	38 990
Coke, petroleum products and nuclear fuel	10 486	11 048	12 296	11 804	11 823	12 346
Basic chemicals	7 983	6 881	8 121	7 798	7 746	7 969
Other chemical products	11 124	9 420	10 690	11 216	10 743	11 647
Rubber products	1 572	1 226	1 478	1 532	1 409	1 494
Plastic products	5 249	4 624	5 281	5 443	5 351	5 534
Glass and non-metallic mineral products	5 564	4 548	5 613	5 559	5 622	5 912
Glass and glass products	768	681	915	887	907	1 028
Non-metallic mineral products	4 796	3 866	4 698	4 672	4 715	4 884
Basic iron and steel, non-ferrous metal products, metal products and machinery	40 867	35 594	39 302	39 344	37 196	38 930
Basic iron and steel products	12 054	11 724	11 435	11 195	10 069	10 850
Non-ferrous metal products	8 773	8 200	9 275	8 733	8 389	8 637
Structural metal products	3 058	2 371	2 883	3 252	2 915	2 892
Other fabricated metal products	6 577	5 527	6 682	6 642	6 421	6 863
General purpose machinery	3 362	2 898	3 442	3 351	3 186	3 372
Special purpose machinery	5 810	3 890	4 488	4 991	5 083	5 224
Household appliances	1 234	984	1 096	1 181	1 132	1 092
Electrical machinery	5 131	3 740	4 690	5 045	4 662	4 775
Radio, television and communication apparatus and professional equipment	2 423	2 238	2 167	2 111	2 216	2 315
Radio, television and communication apparatus	1 495	1 215	1 320	1 295	1 411	1 577
Professional equipment	927	1 022	846	816	805	738
Motor vehicles, parts and accessories and other transport equipment	26 064	18 485	24 062	26 782	24 794	26 974
Motor vehicles	13 920	9 787	13 252	14 816	14 120	15 485
Bodies for motor vehicles, trailers and semi-trailers	1 141	860	1 153	1 072	1 012	1 135
Parts and accessories	7 326	5 666	7 275	7 178	7 184	7 587
Other transport equipment	3 676	2 172	2 382	3 716	2 479	2 766
Furniture and other manufacturing	5 946	5 514	7 133	6 808	6 511	6 798
Furniture	1 317	1 157	1 339	1 298	1 371	1 500
Other manufacturing groups	4 629	4 356	5 794	5 510	5 140	5 299
Total	183 141	158 508	179 622	183 539	175 475	187 494

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	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17
Food and beverages	3,9	5,4	2,7	2,8	-0,7	4,9
Meat, fish, fruit, etc.	3,4	5,1	5,3	4,8	1,6	9,1
Dairy products	6,4	5,4	8,8	4,2	4,0	10,5
Grain mill products	-4,9	-12,4	-13,0	-15,6	-14,3	-14,1
Other food products	11,2	8,5	7,4	7,6	2,0	10,5
Beverages	4,4	15,8	5,4	8,7	2,5	6,5
Textiles, clothing, leather and footwear	6,8	-7,1	-0,7	-0,4	-1,5	1,1
Textiles	0,9	-3,8	5,7	6,7	6,0	4,1
Other textile products	11,5	-13,5	-2,1	6,1	-0,7	2,5
Knitted, crocheted articles	5,3	-6,9	-1,2	6,4	3,8	9,0
Wearing apparel	9,7	-4,5	-2,3	-7,3	-6,2	-2,7
Leather and leather products	2,1	-3,6	-0,2	-2,3	4,5	6,6
Footwear	2,2	-7,5	-2,5	-4,3	-5,4	-2,5
Wood and wood products, paper, publishing and printing	4,0	-1,0	6,6	-0,3	0,8	5,3
Sawmilling and planing of wood	18,0	-24,8	5,4	18,1	2,8	8,2
Products of wood	-2,4	-12,3	1,5	11,0	-2,3	4,0
Paper and paper products	4,1	1,8	9,8	-1,7	1,3	9,0
Publishing	1,0	6,6	1,2	-10,4	7,6	5,2
Printing, recorded media	5,1	8,4	6,4	-4,2	-3,1	-3,3
Petroleum, chemical products, rubber and plastic products	6,4	1,0	4,9	4,0	2,1	3,1
Coke, petroleum products and nuclear fuel	-1,0	4,2	0,3	0,3	-1,5	3,9
Basic chemicals	10,4	-0,7	11,0	0,3	4,6	-2,5
Other chemical products	11,2	3,7	6,0	9,4	7,2	7,1
Rubber products	16,0	-9,5	5,5	6,2	0,3	5,4
Plastic products	4,1	-5,5	5,1	6,8	-2,2	0,8
Glass and non-metallic mineral products	12,2	-8,7	4,0	3,0	4,5	5,7
Glass and glass products	1,1	-10,3	-1,1	-3,4	2,6	2,4
Non-metallic mineral products	14,3	-8,5	5,1	4,3	4,9	6,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	15,0	4,6	7,0	4,2	7,4	8,6
Basic iron and steel products	32,8	23,4	9,7	3,4	14,9	21,5
Non-ferrous metal products	8,5	0,1	4,1	-1,4	3,9	-1,2
Structural metal products	7,8	-8,9	1,9	10,6	4,0	-0,1
Other fabricated metal products	10,1	-1,3	9,4	8,4	2,7	6,4
General purpose machinery	7,8	-1,4	11,2	-6,1	4,0	-0,2
Special purpose machinery	11,6	-5,2	7,4	18,6	10,4	21,5
Household appliances	-0,2	-9,5	-7,4	-4,1	4,6	-5,0
Electrical machinery	-15,5	-20,7	-1,8	-5,9	-7,5	-4,5
Radio, television and communication apparatus and professional equipment	18,0	27,2	9,1	-7,8	-1,2	0,4
Radio, television and communication apparatus	30,0	23,2	15,7	-5,8	0,8	14,5
Professional equipment	2,5	32,4	0,2	-10,7	-4,7	-20,6
Motor vehicles, parts and accessories and other transport equipment	11,1	-20,7	-2,1	5,3	2,8	8,2
Motor vehicles	15,3	-20,3	0,8	15,4	5,8	16,0
Bodies for motor vehicles, trailers and semi-trailers	27,5	-9,1	14,7	4,8	-5,0	11,7
Parts and accessories	-0,3	-25,2	-10,1	-6,9	-3,7	-3,4
Other transport equipment	17,0	-13,6	2,4	-3,6	10,6	2,4
Furniture and other manufacturing	10,4	-0,8	0,7	13,2	9,1	12,0
Furniture	26,9	1,1	8,6	3,5	3,8	6,9
Other manufacturing groups	6,5	-1,3	-1,0	15,7	10,7	13,6
Total	7,7	-1,4	3,5	3,3	2,4	5,6

Table 13 – Contribution of each division and major group to the year-on-year percentage change in manufacturing sales at current prices (percentage points)

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

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

Manufacturing division and major group	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Month-on-month % change
Food and beverages	43 195	42 417	43 047	42 606	43 472	2,0
Meat, fish, fruit, etc.	12 133	12 142	12 261	12 245	12 613	3,0
Dairy products	3 440	3 513	3 461	3 399	3 726	9,6
Grain mill products	6 128	6 028	5 934	5 961	5 932	-0,5
Other food products	9 469	9 485	9 641	9 691	9 809	1,2
Beverages	12 025	11 250	11 750	11 310	11 392	0,7
Textiles, clothing, leather and footwear	4 575	4 680	4 660	4 780	4 842	1,3
Textiles	697	709	698	744	714	-4,0
Other textile products	1 123	1 166	1 186	1 218	1 241	1,9
Knitted, crocheted articles	222	222	227	233	234	0,4
Wearing apparel	1 488	1 584	1 554	1 591	1 609	1,1
Leather and leather products	585	552	561	546	593	8,6
Footwear	460	446	435	447	451	0,9
Wood and wood products, paper, publishing and printing	13 040	13 414	13 012	13 080	13 224	1,1
Sawmilling and planing of wood	838	1 017	993	992	1 044	5,2
Products of wood	1 620	1 710	1 810	1 683	1 736	3,1
Paper and paper products	6 262	6 481	6 182	6 253	6 287	0,5
Publishing	1 617	1 613	1 585	1 622	1 663	2,5
Printing, recorded media	2 703	2 593	2 443	2 529	2 494	-1,4
Petroleum, chemical products, rubber and plastic products	36 829	37 235	37 184	37 680	37 525	-0,4
Coke, petroleum products and nuclear fuel	11 357	11 361	11 371	11 514	12 032	4,5
Basic chemicals	8 003	8 109	7 863	8 095	7 764	-4,1
Other chemical products	10 811	10 890	10 956	11 244	10 928	-2,8
Rubber products	1 394	1 449	1 452	1 409	1 426	1,2
Plastic products	5 263	5 426	5 542	5 419	5 375	-0,8
Glass and non-metallic mineral products	5 153	5 420	5 258	5 451	5 391	-1,1
Glass and glass products	819	992	883	922	926	0,4
Non-metallic mineral products	4 334	4 428	4 375	4 529	4 465	-1,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	38 299	37 794	37 181	37 556	38 061	1,3
Basic iron and steel products	11 983	10 617	10 414	10 459	10 921	4,4
Non-ferrous metal products	8 531	8 959	8 474	8 612	8 581	-0,4
Structural metal products	2 807	2 834	2 969	2 911	2 769	-4,9
Other fabricated metal products	6 138	6 371	6 326	6 288	6 381	1,5
General purpose machinery	3 195	3 418	3 076	3 204	3 208	0,1
Special purpose machinery	4 540	4 523	4 825	4 911	5 109	4,0
Household appliances	1 104	1 072	1 097	1 170	1 093	-6,6
Electrical machinery	4 305	4 779	4 627	4 543	4 539	-0,1
Radio, television and communication apparatus and professional equipment	2 623	2 344	2 212	2 241	2 165	-3,4
Radio, television and communication apparatus	1 514	1 512	1 423	1 413	1 423	0,7
Professional equipment	1 109	831	789	828	742	-10,4
Motor vehicles, parts and accessories and other transport equipment	21 901	23 369	24 526	24 710	26 032	5,4
Motor vehicles	11 800	12 880	13 807	13 888	15 188	9,4
Bodies for motor vehicles, trailers and semi-trailers	975	1 060	1 003	1 000	1 063	6,3
Parts and accessories	6 440	6 726	6 748	6 911	6 990	1,1
Other transport equipment	2 686	2 704	2 968	2 912	2 792	-4,1
Furniture and other manufacturing	5 984	7 002	6 632	6 486	6 447	-0,6
Furniture	1 338	1 323	1 289	1 351	1 428	5,7
Other manufacturing groups	4 646	5 679	5 342	5 135	5 019	-2,3
Total	175 903	178 455	178 339	179 133	181 698	1,4

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 August 2017 was 83,4%. The improved collection rate for July 2017 was 85,6%.
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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