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Production: results for September 2016

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

	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
Year-on-year % change, unadjusted	3,3	4,2	4,7	-0,5	2,2	0,0
Month-on-month % change, seasonally adjusted	0,6	1,4	0,6	-1,9	-1,1	1,5
3-month % change, seasonally adjusted ¹	1,2	1,0	1,9	1,4	0,1	-1,3

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

Manufacturing production was unchanged between September 2015 and September 2016. The divisions that made the largest contributions to the annual rate were:

- food and beverages (-2,6% and contributing -0,7 of a percentage point);
- motor vehicles, parts and accessories and other transport equipment (8,8% and contributing 0,6 of a percentage point); and
- wood and wood products, paper, publishing and printing (2,0% and contributing 0,3 of a percentage point); – see Tables 5 and 6.

Seasonally adjusted manufacturing production increased by 1,5% in September 2016 compared with August 2016. This followed month-on-month changes of -1,1% in August 2016 and -1,9% in July 2016 – see Table A.

Seasonally adjusted manufacturing production decreased by 1,3% in the third quarter of 2016 compared with the second quarter of 2016. Eight of the ten manufacturing divisions reported negative growth rates over this period.

The main contributors to the 1,3% decrease were the petroleum, chemical products, rubber and plastic products division (-2,0% and contributing -0,5 of a percentage point) and the basic iron and steel, non-ferrous metal products, metal products and machinery division (-1,5% and contributing -0,3 of a percentage point) – see Table B.

Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2010=100)

Manufacturing division and major group	Weight (2013)	Apr – Jun 2016	Jul – Sep 2016	% change between Apr – Jun 2016 and Jul – Sep 2016	Contribution (% points) to the total % change
Food and beverages	24,53	114,4	113,4	-0,9	-0,2
Meat, fish, fruit, etc.	5,99	119,9	118,2	-1,4	-0,1
Dairy products	1,81	114,2	112,9	-1,1	0,0
Grain mill products	2,61	105,5	103,3	-2,1	-0,1
Other food products	7,78	105,6	106,4	0,8	0,1
Beverages	6,34	124,0	121,6	-1,9	-0,1
Textiles, clothing, leather and footwear	3,34	95,7	95,5	-0,2	0,0
Textiles	0,89	86,4	87,7	1,5	0,0
Other textile products	0,36	95,5	96,3	0,8	0,0
Knitted, crocheted articles	0,09	52,6	51,3	-2,5	0,0
Wearing apparel	1,13	95,2	98,9	3,9	0,0
Leather and leather products	0,50	118,7	108,1	-8,9	0,0
Footwear	0,37	99,1	96,9	-2,2	0,0
Wood and wood products, paper, publishing and printing	12,62	107,3	106,4	-0,8	-0,1
Sawmilling and planing of wood	1,81	139,8	136,0	-2,7	-0,1
Products of wood	2,47	106,0	106,1	0,1	0,0
Paper and paper products	4,96	104,0	105,3	1,3	0,1
Publishing	1,55	97,7	92,9	-4,9	-0,1
Printing, recorded media	1,83	94,0	92,0	-2,1	0,0
Petroleum, chemical products, rubber and plastic products	23,58	114,3	112,0	-2,0	-0,5
Coke, petroleum products and nuclear fuel	9,01	109,3	105,6	-3,4	-0,3
Basic chemicals	4,08	123,2	119,7	-2,8	-0,1
Other chemical products	6,21	125,1	123,1	-1,6	-0,1
Rubber products	1,35	104,2	104,0	-0,2	0,0
Plastic products	2,93	98,6	101,0	2,4	0,1
Glass and non-metallic mineral products	4,15	98,2	96,5	-1,7	-0,1
Glass and glass products	0,83	102,5	92,0	-10,2	-0,1
Non-metallic mineral products	3,32	97,1	97,6	0,5	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,77	98,6	97,1	-1,5	-0,3
Basic iron and steel products	3,27	94,7	87,2	-7,9	-0,2
Non-ferrous metal products	3,11	94,8	94,6	-0,2	0,0
Structural metal products	1,83	77,2	76,3	-1,2	0,0
Other fabricated metal products	3,92	122,0	121,5	-0,4	0,0
General purpose machinery	2,37	78,4	76,0	-3,1	-0,1
Special purpose machinery	3,44	105,7	106,5	0,8	0,0
Household appliances	0,83	92,9	97,5	5,0	0,0
Electrical machinery	1,67	107,8	102,2	-5,2	-0,1
Radio, television and communication apparatus and professional equipment	1,55	138,7	142,0	2,4	0,0
Radio, television and communication	0,90	161,3	162,9	1,0	0,0
Professional equipment	0,65	107,4	113,2	5,4	0,0
Motor vehicles, parts and accessories and other transport equipment	6,85	116,2	112,8	-2,9	-0,2
Motor vehicles	2,47	143,0	132,0	-7,7	-0,2
Bodies for motor vehicles, trailers and semi-	0,44	109,5	113,2	3,4	0,0
Parts and accessories	2,78	97,9	100,3	2,5	0,1
Other transport equipment	1,16	105,6	101,7	-3,7	0,0
Furniture and other manufacturing	2,94	88,4	92,6	4,8	0,1
Furniture	1,06	98,3	105,7	7,5	0,1
Other manufacturing groups	1,88	82,8	85,3	3,0	0,0
Total	100	108,8	107,4	-1,3	-1,3

Figure 1 – Volume of manufacturing production (Base: 2010=100)

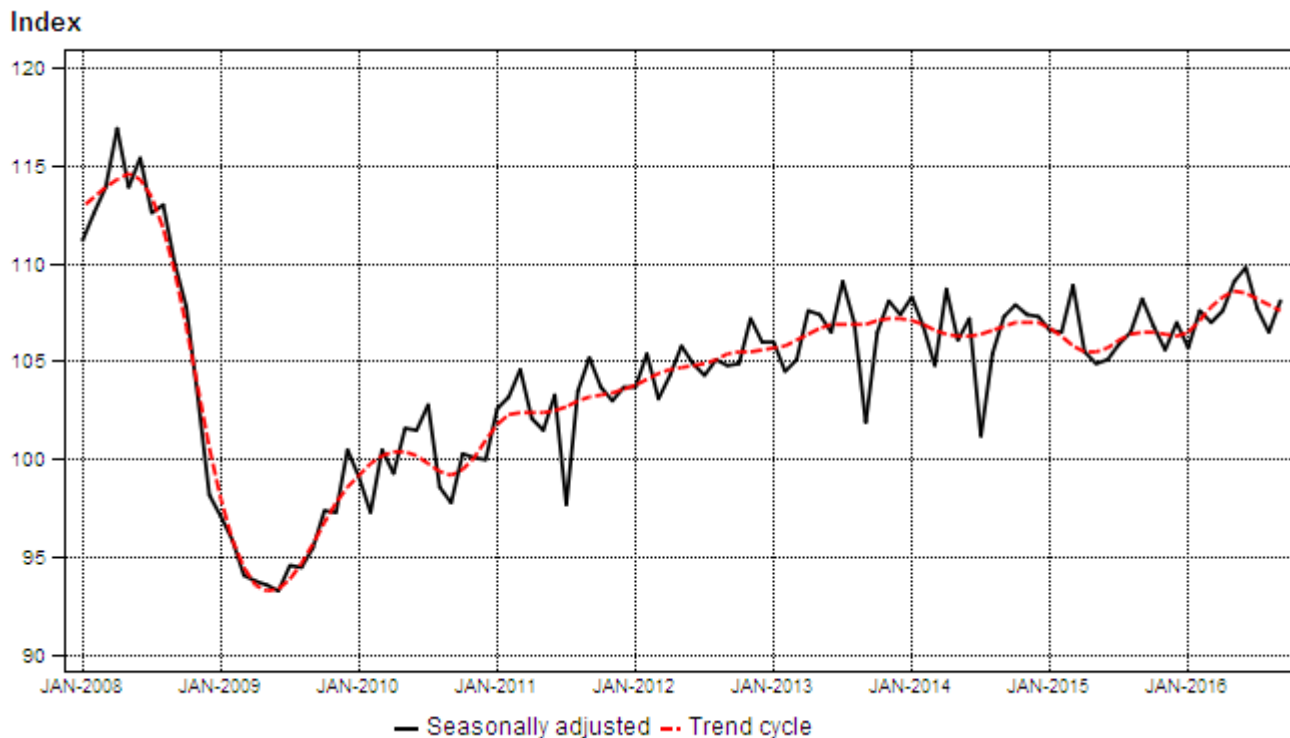
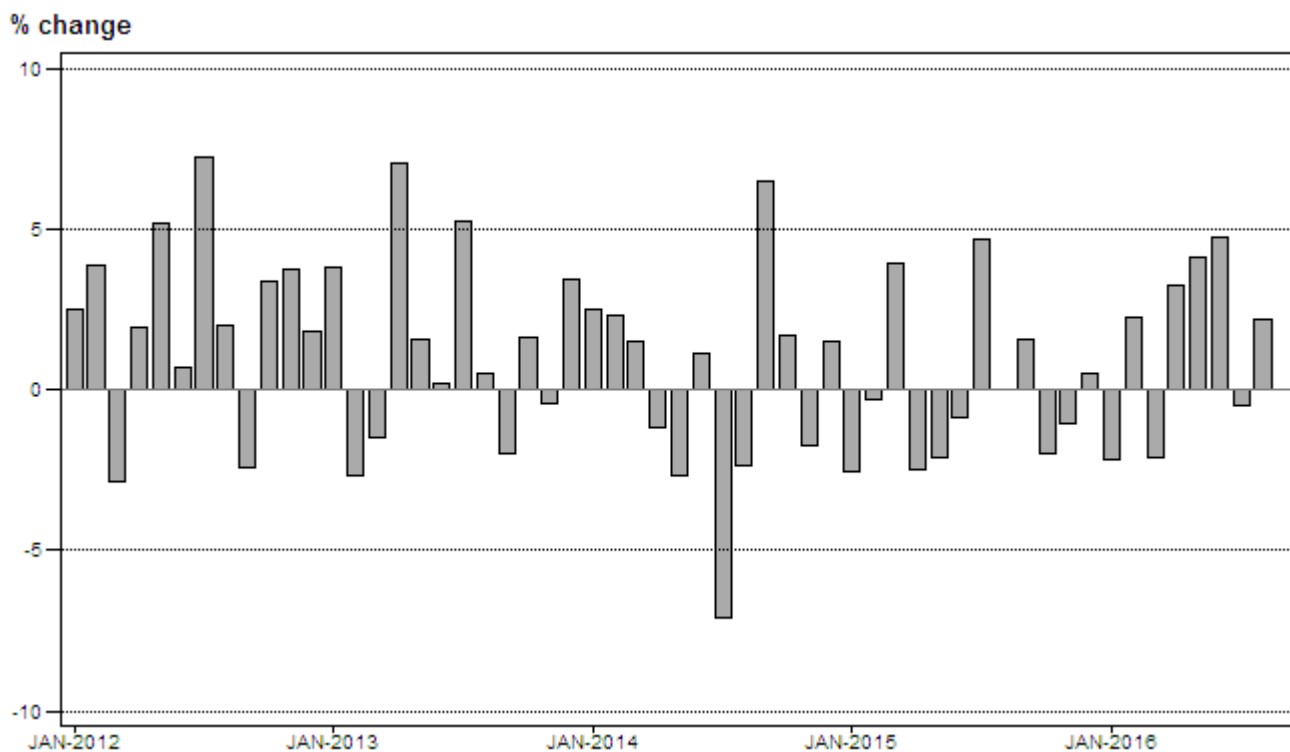


Figure 2 – Volume of manufacturing production (Base: 2010=100): year-on-year percentage change



Sales: results for September 2016**Table C – Key growth rates in manufacturing sales at current prices**

	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
Year-on-year % change, unadjusted	8,9	9,5	8,6	4,5	9,6	6,6
Month-on-month % change, seasonally adjusted	0,6	3,5	-0,2	-0,6	0,3	0,2
3-month % change, seasonally adjusted ¹	2,9	3,3	3,6	3,5	1,9	0,6

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

Seasonally adjusted manufacturing sales increased by 0,2% in September 2016 compared with August 2016. This followed month-on-month changes of 0,3% in August 2016 and -0,6% in July 2016 – see Table C.

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

Manufacturing division	Apr – Jun 2016 (R million)	Jul – Sep 2016 (R million)	% change between Apr – Jun 2016 and Jul – Sep 2016	Contribution (% points) to the total % change
Food and beverages	121 675	123 922	1,8	0,4
Textiles, clothing, leather and footwear	13 708	14 064	2,6	0,1
Wood and wood products, paper, publishing and printing	38 042	38 629	1,5	0,1
Petroleum, chemical products, rubber and plastic products	106 288	109 007	2,6	0,5
Glass and non-metallic mineral products	14 386	14 292	-0,7	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	104 554	103 053	-1,4	-0,3
Electrical machinery	15 134	14 667	-3,1	-0,1
Radio, television and communication apparatus and professional equipment	6 669	6 757	1,3	0,0
Motor vehicles, parts and accessories and other transport equipment	68 254	68 288	0,0	0,0
Furniture and other manufacturing	17 530	16 557	-5,6	-0,2
Total	506 240	509 237	0,6	0,6

PJ Lehohla
Statistician-General

Tables

Table 1 – Index of the volume of manufacturing production (Base: 2010=100)

Month	2010	2011	2012	2013	2014	2015	2016 ¹
Jan	84,5	86,7	88,9	92,3	94,6	92,2	90,2
Feb	92,2	98,4	102,2	99,5	101,8	101,5	103,8
Mar	103,8	109,3	106,2	104,6	106,2	110,4	108,1
Apr	93,4	93,4	95,2	101,9	100,7	98,2	101,4
May	100,6	101,6	106,9	108,6	105,7	103,5	107,8
Jun	102,9	104,2	104,9	105,1	106,3	105,4	110,4
Jul	105,3	98,9	106,1	111,7	103,8	108,7	108,2
Aug	101,6	107,8	110,0	110,6	108,0	108,0	110,4
Sep	102,2	110,4	107,7	105,6	112,5	114,3	114,3
Oct	110,3	112,9	116,7	118,6	120,6	118,2	
Nov	112,2	116,6	121,0	120,5	118,4	117,2	
Dec	91,0	93,5	95,2	98,5	100,0	100,5	
Total	100,0	102,8	105,1	106,5	106,6	106,5	

¹ The latest three months are preliminary.

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

Month	2011	2012	2013	2014	2015	2016	2016 year-to-date
Jan	2,6	2,5	3,8	2,5	-2,5	-2,2	-2,2
Feb	6,7	3,9	-2,6	2,3	-0,3	2,3	0,2
Mar	5,3	-2,8	-1,5	1,5	4,0	-2,1	-0,7
Apr	0,0	1,9	7,0	-1,2	-2,5	3,3	0,3
May	1,0	5,2	1,6	-2,7	-2,1	4,2	1,1
Jun	1,3	0,7	0,2	1,1	-0,8	4,7	1,7
Jul	-6,1	7,3	5,3	-7,1	4,7	-0,5	1,4
Aug	6,1	2,0	0,5	-2,4	0,0	2,2	1,5
Sep	8,0	-2,4	-1,9	6,5	1,6	0,0	1,3
Oct	2,4	3,4	1,6	1,7	-2,0		
Nov	3,9	3,8	-0,4	-1,7	-1,0		
Dec	2,7	1,8	3,5	1,5	0,5		
Total	2,8	2,2	1,3	0,1	-0,1		

Table 3 – Seasonally adjusted volume of manufacturing production

Month	Index (Base: 2010=100)				Month-on-month % change			
	2013	2014	2015	2016	2013	2014	2015	2016
Jan	106,0	108,3	106,6	105,7	0,0	0,8	-0,7	-1,2
Feb	104,5	106,8	106,5	107,6	-1,4	-1,4	-0,1	1,8
Mar	105,1	104,8	108,9	107,0	0,6	-1,9	2,3	-0,6
Apr	107,6	108,7	105,5	107,6	2,4	3,7	-3,1	0,6
May	107,4	106,1	104,9	109,1	-0,2	-2,4	-0,6	1,4
Jun	106,5	107,2	105,1	109,8	-0,8	1,0	0,2	0,6
Jul	109,1	101,2	105,9	107,7	2,4	-5,6	0,8	-1,9
Aug	107,0	105,4	106,5	106,5	-1,9	4,2	0,6	-1,1
Sep	101,9	107,3	108,2	108,1	-4,8	1,8	1,6	1,5
Oct	106,5	107,9	106,8		4,5	0,6	-1,3	
Nov	108,1	107,4	105,6		1,5	-0,5	-1,1	
Dec	107,4	107,3	107,0		-0,6	-0,1	1,3	

Table 4 – Index of the volume of manufacturing production by division and major group (Base: 2010=100)

Manufacturing division and major group	Weight (2013)	Apr-16	May-16	Jun-16	¹ Jul-16	¹ Aug-16	¹ Sep-16
Food and beverages	24,53	105,3	111,8	113,0	110,0	118,5	120,3
Meat, fish, fruit, etc.	5,99	114,1	123,0	121,4	115,4	120,5	121,5
Dairy products	1,81	111,9	103,0	101,5	108,5	111,8	116,4
Grain mill products	2,61	100,5	108,0	109,3	103,1	105,3	106,2
Other food products	7,78	100,8	106,7	115,8	113,3	126,2	117,4
Beverages	6,34	102,6	111,6	106,6	104,3	114,5	129,7
Textiles, clothing, leather and footwear	3,34	95,5	96,0	95,1	98,0	96,5	102,5
Textiles	0,89	89,0	90,9	88,1	86,4	87,2	98,7
Other textile products	0,36	98,9	99,1	93,5	98,4	95,4	106,3
Knitted, crocheted articles	0,09	58,4	58,1	51,5	56,0	45,6	50,9
Wearing apparel	1,13	90,3	93,8	93,4	108,1	100,8	102,2
Leather and leather products	0,50	120,8	116,5	125,4	91,1	108,6	114,6
Footwear	0,37	98,2	93,1	88,3	113,7	102,4	105,2
Wood and wood products, paper, publishing and printing	12,62	96,2	106,1	109,4	107,4	107,5	117,8
Sawmilling and planing of wood	1,81	136,0	151,6	139,4	145,9	136,5	137,0
Products of wood	2,47	100,9	106,3	109,4	105,3	111,1	115,2
Paper and paper products	4,96	93,1	100,1	109,8	102,2	102,3	124,0
Publishing	1,55	79,1	89,1	96,4	92,3	96,2	101,4
Printing, recorded media	1,83	73,3	91,4	89,5	98,7	97,4	99,3
Petroleum, chemical products, rubber and plastic products	23,58	105,1	111,5	115,2	114,0	113,0	113,1
Coke, petroleum products and nuclear fuel	9,01	107,1	105,6	105,9	110,9	103,0	97,2
Basic chemicals	4,08	101,2	120,3	132,5	117,2	119,9	128,8
Other chemical products	6,21	111,7	122,3	127,9	123,4	129,4	129,8
Rubber products	1,35	100,9	114,3	106,8	108,5	102,0	104,0
Plastic products	2,93	92,6	93,3	96,6	101,6	104,1	108,9
Glass and non-metallic mineral products	4,15	95,1	101,7	103,9	101,5	102,0	107,6
Glass and glass products	0,83	88,2	100,2	100,6	89,1	102,3	103,7
Non-metallic mineral products	3,32	96,8	102,1	104,7	104,6	101,9	108,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,77	95,3	99,9	102,0	98,7	97,6	103,7
Basic iron and steel products	3,27	96,3	107,0	97,3	86,7	78,2	88,9
Non-ferrous metal products	3,11	93,5	95,2	96,7	93,6	96,9	97,8
Structural metal products	1,83	70,0	79,1	81,5	74,4	76,1	82,8
Other fabricated metal products	3,92	114,4	124,5	125,0	124,7	128,2	135,2
General purpose machinery	2,37	72,6	76,3	86,8	76,7	82,8	79,8
Special purpose machinery	3,44	104,6	97,2	107,6	115,3	103,4	114,7
Household appliances	0,83	88,9	96,7	97,6	90,8	97,1	104,8
Electrical machinery	1,67	104,7	105,9	113,6	107,5	102,2	116,2
Radio, television and communication apparatus and professional equipment	1,55	115,4	124,3	146,8	142,0	150,0	153,8
Radio, television and communication apparatus	0,90	125,9	139,1	169,9	168,2	176,0	178,1
Professional equipment	0,65	100,8	103,9	114,8	105,8	114,0	120,1
Motor vehicles, parts and accessories and other transport equipment	6,85	113,5	119,1	120,6	116,7	122,0	125,4
Motor vehicles	2,47	145,0	151,2	136,4	143,8	152,2	141,0
Bodies for motor vehicles, trailers and semi-trailers	0,44	109,9	117,0	119,4	119,7	123,7	120,2
Parts and accessories	2,78	98,8	103,6	100,2	106,5	106,3	109,1
Other transport equipment	1,16	83,5	89,1	136,5	82,4	95,0	133,2
Furniture and other manufacturing	2,94	78,4	90,9	89,1	93,4	99,5	102,0
Furniture	1,06	89,6	98,2	97,6	106,6	111,7	122,0
Other manufacturing groups	1,88	72,2	86,8	84,3	86,0	92,7	90,8
Total	100	101,4	107,8	110,4	108,2	110,4	114,3

¹ The latest three months are preliminary.

Table 5 – Year-on-year percentage change in the volume of manufacturing production by division and major group (Base: 2010=100)

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

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	Weight (2013)	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
Food and beverages	24,53	0,1	0,9	0,5	-0,7	0,9	-0,7
Meat, fish, fruit, etc.	5,99	-0,1	0,4	0,1	-0,1	0,0	-0,1
Dairy products	1,81	0,1	0,0	-0,1	-0,1	0,1	-0,1
Grain mill products	2,61	0,1	0,1	0,0	-0,1	-0,1	0,0
Other food products	7,78	-0,1	-0,3	0,1	-0,5	0,6	-0,2
Beverages	6,34	0,1	0,7	0,3	0,1	0,4	-0,2
Textiles, clothing, leather and footwear	3,34	0,0	-0,1	0,1	-0,1	0,0	0,0
Textiles	0,89	0,0	0,0	0,0	0,0	0,0	0,1
Other textile products	0,36	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	1,13	-0,1	0,0	0,0	0,0	0,0	-0,1
Leather and leather products	0,50	0,0	-0,1	0,0	-0,1	-0,1	0,0
Footwear	0,37	0,0	0,0	0,0	0,0	0,0	0,0
Wood and wood products, paper, publishing and printing	12,62	0,4	0,8	0,6	-0,1	0,1	0,3
Sawmilling and planing of wood	1,81	0,3	0,3	0,1	0,1	0,2	0,0
Products of wood	2,47	0,0	0,1	0,0	-0,2	0,1	0,1
Paper and paper products	4,96	0,1	0,2	0,3	0,1	-0,3	0,1
Publishing	1,55	0,0	0,1	0,1	0,0	-0,1	0,0
Printing, recorded media	1,83	0,0	0,1	0,1	-0,1	0,1	0,1
Petroleum, chemical products, rubber and plastic products	23,58	2,0	2,1	3,4	1,8	1,0	0,1
Coke, petroleum products and nuclear fuel	9,01	1,7	1,2	1,8	1,6	0,7	-0,3
Basic chemicals	4,08	0,0	0,2	0,8	-0,1	-0,1	0,4
Other chemical products	6,21	0,5	0,7	0,8	0,4	0,4	-0,1
Rubber products	1,35	0,1	0,1	0,0	0,0	-0,1	0,0
Plastic products	2,93	-0,2	0,0	0,0	0,0	0,0	0,1
Glass and non-metallic mineral products	4,15	0,0	0,0	0,1	-0,2	0,0	-0,1
Glass and glass products	0,83	0,1	0,1	0,1	-0,1	0,0	0,0
Non-metallic mineral products	3,32	0,0	-0,1	0,0	-0,1	0,0	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,77	-0,3	0,2	-0,1	-0,9	-0,4	0,0
Basic iron and steel products	3,27	0,0	0,6	0,5	0,0	0,1	0,2
Non-ferrous metal products	3,11	-0,2	0,0	-0,1	-0,1	0,1	0,1
Structural metal products	1,83	-0,1	-0,1	0,0	-0,2	-0,1	0,0
Other fabricated metal products	3,92	0,1	0,4	0,1	0,0	0,3	0,1
General purpose machinery	2,37	-0,1	-0,2	0,0	-0,2	-0,2	-0,1
Special purpose machinery	3,44	0,2	-0,4	-0,5	-0,1	-0,4	-0,2
Household appliances	0,83	-0,1	-0,1	-0,1	-0,2	-0,1	-0,1
Electrical machinery	1,67	0,3	0,0	-0,1	-0,3	-0,2	-0,1
Radio, television and communication apparatus and professional equipment	1,55	0,2	0,0	0,2	0,2	0,1	0,0
Radio, television and communication apparatus	0,90	0,1	0,1	0,2	0,1	0,0	0,0
Professional equipment	0,65	0,0	-0,1	0,0	0,1	0,1	0,1
Motor vehicles, parts and accessories and other transport equipment	6,85	0,7	0,2	0,2	-0,3	0,6	0,6
Motor vehicles	2,47	0,5	0,1	-0,2	-0,2	0,2	0,2
Bodies for motor vehicles, trailers and semi-trailers	0,44	0,0	0,0	0,0	-0,1	0,0	0,0
Parts and accessories	2,78	0,2	0,2	0,2	0,1	0,4	0,3
Other transport equipment	1,16	0,1	0,0	0,2	-0,1	0,0	0,2
Furniture and other manufacturing	2,94	-0,1	0,0	-0,2	0,1	0,2	-0,1
Furniture	1,06	-0,1	0,0	-0,1	-0,1	0,1	0,0
Other manufacturing groups	1,88	0,0	0,0	-0,1	0,1	0,1	-0,1
Total	100	3,3	4,2	4,7	-0,5	2,2	0,0

Table 7 – Seasonally adjusted index of the volume of manufacturing production by division and major group (Base: 2010=100)

Manufacturing division and major group	Weight (2013)	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Month-on-month % change
Food and beverages	24,53	115,0	113,7	113,6	113,5	113,0	-0,4
Meat, fish, fruit, etc.	5,99	122,0	120,5	118,9	117,4	118,4	0,9
Dairy products	1,81	113,7	113,0	113,9	114,3	110,6	-3,2
Grain mill products	2,61	106,4	104,8	103,8	101,9	104,1	2,2
Other food products	7,78	104,7	105,6	105,1	108,9	105,1	-3,5
Beverages	6,34	124,9	121,0	122,9	120,0	122,0	1,7
Textiles, clothing, leather and footwear	3,34	95,7	96,7	95,8	95,1	95,6	0,5
Textiles	0,89	86,8	85,2	86,9	86,5	89,6	3,6
Other textile products	0,36	95,7	94,4	94,3	95,0	99,6	4,8
Knitted, crocheted articles	0,09	52,0	52,7	52,9	50,0	50,9	1,8
Wearing apparel	1,13	96,7	98,4	103,6	96,7	96,4	-0,3
Leather and leather products	0,50	114,5	120,3	98,3	113,6	112,3	-1,1
Footwear	0,37	99,1	100,1	101,7	97,1	92,0	-5,3
Wood and wood products, paper, publishing and printing	12,62	109,0	109,0	106,3	105,3	107,7	2,3
Sawmilling and planing of wood	1,81	148,0	134,4	136,9	137,1	133,9	-2,3
Products of wood	2,47	107,2	106,4	104,5	106,6	107,2	0,6
Paper and paper products	4,96	104,5	107,7	105,8	100,7	109,5	8,7
Publishing	1,55	97,4	100,8	94,9	92,9	91,0	-2,0
Printing, recorded media	1,83	94,5	98,0	89,4	94,8	91,8	-3,2
Petroleum, chemical products, rubber and plastic products	23,58	113,9	117,1	112,9	111,0	112,0	0,9
Coke, petroleum products and nuclear fuel	9,01	107,5	109,5	107,0	105,2	104,5	-0,7
Basic chemicals	4,08	120,4	135,7	117,0	117,0	125,0	6,8
Other chemical products	6,21	127,0	127,3	125,9	122,7	120,6	-1,7
Rubber products	1,35	108,5	103,4	103,8	103,8	104,3	0,5
Plastic products	2,93	99,2	99,3	102,2	98,8	102,1	3,3
Glass and non-metallic mineral products	4,15	98,5	98,1	95,1	95,9	98,6	2,8
Glass and glass products	0,83	107,9	101,8	84,9	95,0	96,2	1,3
Non-metallic mineral products	3,32	96,2	97,1	97,6	96,1	99,2	3,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,77	98,4	99,4	97,4	94,9	99,0	4,3
Basic iron and steel products	3,27	95,2	96,4	91,2	80,5	89,9	11,7
Non-ferrous metal products	3,11	93,7	96,7	93,3	93,5	96,9	3,6
Structural metal products	1,83	78,2	78,4	74,7	74,4	79,7	7,1
Other fabricated metal products	3,92	123,9	121,0	118,5	122,7	123,3	0,5
General purpose machinery	2,37	75,8	83,4	75,1	76,7	76,2	-0,7
Special purpose machinery	3,44	103,9	103,5	111,2	101,3	106,9	5,5
Household appliances	0,83	94,0	93,7	94,1	95,5	102,8	7,6
Electrical machinery	1,67	106,0	105,6	104,0	98,5	104,1	5,7
Radio, television and communication apparatus and professional equipment	1,55	137,3	148,8	144,0	140,4	141,7	0,9
Radio, television and communication apparatus	0,90	159,7	178,3	167,6	157,1	164,1	4,5
Professional equipment	0,65	106,3	108,1	111,4	117,3	110,8	-5,5
Motor vehicles, parts and accessories and other transport equipment	6,85	115,4	116,2	113,4	111,5	113,5	1,8
Motor vehicles	2,47	145,1	133,6	133,6	135,2	127,3	-5,8
Bodies for motor vehicles, trailers and semi-trailers	0,44	110,6	110,3	115,3	114,4	109,9	-3,9
Parts and accessories	2,78	97,8	101,0	102,7	98,0	100,2	2,2
Other transport equipment	1,16	96,6	118,0	95,1	92,5	117,4	26,9
Furniture and other manufacturing	2,94	93,2	86,3	89,7	93,9	94,2	0,3
Furniture	1,06	98,8	97,8	102,2	105,9	109,1	3,0
Other manufacturing groups	1,88	90,1	79,8	82,7	87,2	85,9	-1,5
Total	100	109,1	109,8	107,7	106,5	108,1	1,5

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

Month	2010	2011	2012	2013	2014	2015	2016 ¹
Jan	91 479	97 411	108 491	117 959	131 761	131 002	134 925
Feb	103 635	113 324	127 563	133 672	148 322	145 423	157 533
Mar	117 362	127 991	135 237	139 554	153 523	163 845	166 251
Apr	103 535	109 650	119 115	135 261	145 555	144 372	157 266
May	111 173	119 270	132 208	143 182	150 221	155 084	169 757
Jun	115 608	123 962	132 709	141 053	158 110	159 864	173 552
Jul	114 832	114 767	129 532	148 320	147 886	160 520	167 749
Aug	112 499	126 866	136 533	146 049	158 442	158 603	173 855
Sep	115 236	135 195	133 921	142 416	164 928	169 078	180 254
Oct	123 733	135 976	146 705	158 674	177 895	175 325	
Nov	128 820	141 655	155 603	164 565	173 109	176 362	
Dec	106 438	119 470	125 295	142 129	150 084	153 063	
Total	1 344 350	1 465 537	1 582 912	1 712 834	1 859 836	1 892 541	

¹ The latest three months are preliminary.

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

Month	2011	2012	2013	2014	2015	2016	2016 year-to-date
Jan	6,5	11,4	8,7	11,7	-0,6	3,0	3,0
Feb	9,3	12,6	4,8	11,0	-2,0	8,3	5,8
Mar	9,1	5,7	3,2	10,0	6,7	1,5	4,2
Apr	5,9	8,6	13,6	7,6	-0,8	8,9	5,4
May	7,3	10,8	8,3	4,9	3,2	9,5	6,2
Jun	7,2	7,1	6,3	12,1	1,1	8,6	6,6
Jul	-0,1	12,9	14,5	-0,3	8,5	4,5	6,3
Aug	12,8	7,6	7,0	8,5	0,1	9,6	6,7
Sep	17,3	-0,9	6,3	15,8	2,5	6,6	6,7
Oct	9,9	7,9	8,2	12,1	-1,4		
Nov	10,0	9,8	5,8	5,2	1,9		
Dec	12,2	4,9	13,4	5,6	2,0		
Total	9,0	8,0	8,2	8,6	1,8		

Table 10 – Seasonally adjusted manufacturing sales at current prices

Month	R million				Month-on-month % change			
	2013	2014	2015	2016	2013	2014	2015	2016
Jan	137 674	152 582	154 192	160 479	1,3	0,8	-2,4	0,7
Feb	139 358	155 102	152 191	163 912	1,2	1,7	-1,3	2,1
Mar	139 822	149 970	159 014	164 093	0,3	-3,3	4,5	0,1
Apr	140 662	156 183	154 733	165 071	0,6	4,1	-2,7	0,6
May	141 749	150 488	156 756	170 798	0,8	-3,6	1,3	3,5
Jun	141 170	156 463	156 992	170 371	-0,4	4,0	0,2	-0,3
Jul	146 975	146 643	158 529	169 274	4,1	-6,3	1,0	-0,6
Aug	143 504	157 130	158 187	169 839	-2,4	7,2	-0,2	0,3
Sep	137 248	157 377	160 758	170 124	-4,4	0,2	1,6	0,2
Oct	143 792	160 555	159 939		4,8	2,0	-0,5	
Nov	148 081	158 076	159 258		3,0	-1,5	-0,4	
Dec	151 345	157 967	159 395		2,2	-0,1	0,1	

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

Manufacturing division and major group	Apr-16	May-16	Jun-16	¹ Jul-16	¹ Aug-16	¹ Sep-16
Food and beverages	36 923	39 055	40 177	39 196	41 213	43 548
Meat, fish, fruit, etc.	10 482	11 282	11 448	11 413	11 544	12 139
Dairy products	3 197	3 186	3 189	3 242	3 408	3 430
Grain mill products	6 328	7 048	7 069	6 797	6 976	6 930
Other food products	8 188	8 128	8 779	8 869	8 870	9 563
Beverages	8 729	9 411	9 692	8 875	10 414	11 485
Textiles, clothing, leather and footwear	4 545	4 661	4 546	4 705	4 777	5 013
Textiles	693	736	671	680	693	770
Other textile products	1 219	1 236	1 166	1 217	1 209	1 339
Knitted, crocheted articles	217	225	195	208	177	200
Wearing apparel	1 381	1 489	1 453	1 670	1 642	1 635
Leather and leather products	598	583	634	479	608	620
Footwear	437	391	429	450	449	450
Wood and wood products, paper, publishing and printing	11 034	12 096	13 183	12 591	12 798	15 082
Sawmilling and planing of wood	774	784	676	810	794	790
Products of wood	1 655	1 645	1 727	1 643	1 719	1 922
Paper and paper products	5 216	5 633	6 470	5 784	5 815	7 557
Publishing	1 432	1 648	1 835	1 628	1 746	1 966
Printing, recorded media	1 957	2 386	2 474	2 727	2 724	2 847
Petroleum, chemical products, rubber and plastic products	32 894	36 119	36 369	36 334	37 922	37 252
Coke, petroleum products and nuclear fuel	10 516	12 168	11 675	11 905	11 787	10 149
Basic chemicals	6 838	7 220	7 673	7 309	8 105	8 577
Other chemical products	9 208	10 218	10 392	10 159	11 013	11 028
Rubber products	1 426	1 475	1 518	1 478	1 493	1 494
Plastic products	4 906	5 039	5 110	5 482	5 524	6 004
Glass and non-metallic mineral products	4 555	4 935	4 936	4 918	5 118	5 423
Glass and glass products	719	876	869	837	951	995
Non-metallic mineral products	3 837	4 060	4 067	4 081	4 167	4 428
Basic iron and steel, non-ferrous metal products, metal products and machinery	33 389	36 041	37 048	34 000	35 227	36 174
Basic iron and steel products	9 296	10 192	10 590	8 570	8 737	9 371
Non-ferrous metal products	8 192	8 909	8 857	8 073	8 738	8 641
Structural metal products	2 559	2 782	2 890	2 757	2 848	3 008
Other fabricated metal products	5 591	6 102	6 120	6 246	6 443	6 751
General purpose machinery	2 842	2 991	3 452	2 962	3 268	3 063
Special purpose machinery	3 974	4 046	4 077	4 460	4 202	4 334
Household appliances	936	1 019	1 061	932	991	1 006
Electrical machinery	4 706	4 721	5 368	5 036	4 969	5 745
Radio, television and communication apparatus and professional equipment	1 813	2 047	2 358	2 311	2 355	2 519
Radio, television and communication apparatus	1 006	1 165	1 403	1 428	1 408	1 549
Professional equipment	807	882	954	882	948	971
Motor vehicles, parts and accessories and other transport equipment	22 190	23 471	23 925	23 053	23 759	23 597
Motor vehicles	12 147	13 003	12 697	13 195	13 204	12 831
Bodies for motor vehicles, trailers and semi-trailers	939	998	1 015	1 058	1 044	1 034
Parts and accessories	7 271	7 774	7 404	7 167	7 543	6 904
Other transport equipment	1 832	1 695	2 809	1 633	1 968	2 828
Furniture and other manufacturing	5 216	6 611	5 643	5 605	5 717	5 900
Furniture	1 127	1 214	1 235	1 301	1 399	1 458
Other manufacturing groups	4 089	5 397	4 408	4 305	4 318	4 443
Total	157 266	169 757	173 552	167 749	173 855	180 254

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	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
Food and beverages	10,8	14,8	15,1	9,3	12,8	11,5
Meat, fish, fruit, etc.	11,7	15,8	13,7	10,7	10,3	10,6
Dairy products	6,9	4,2	4,4	0,2	9,9	5,5
Grain mill products	19,5	25,5	19,5	10,7	16,4	15,2
Other food products	11,4	13,8	21,0	18,0	18,8	21,6
Beverages	5,2	11,3	12,4	2,4	9,6	4,8
Textiles, clothing, leather and footwear	4,9	5,1	6,9	4,0	6,8	7,3
Textiles	10,4	14,8	7,2	10,9	13,8	13,1
Other textile products	12,5	4,7	4,6	1,8	10,7	22,6
Knitted, crocheted articles	8,0	8,2	10,8	1,5	-6,3	5,3
Wearing apparel	-5,8	4,2	14,0	10,8	7,6	1,6
Leather and leather products	3,8	-3,0	-0,8	-16,7	-3,0	-3,9
Footwear	15,6	4,8	2,1	5,4	4,2	-0,7
Wood and wood products, paper, publishing and printing	5,9	10,7	9,8	2,7	2,2	9,6
Sawmilling and planing of wood	24,4	13,3	-2,6	9,8	27,7	-1,5
Products of wood	7,3	5,4	2,3	-2,5	2,7	5,7
Paper and paper products	7,1	11,1	10,8	7,0	-4,2	11,8
Publishing	1,2	11,5	16,1	-0,5	-1,9	7,0
Printing, recorded media	-0,8	11,9	12,4	-2,4	14,7	12,2
Petroleum, chemical products, rubber and plastic products	-3,6	-2,4	0,2	1,9	8,0	-1,4
Coke, petroleum products and nuclear fuel	-19,5	-18,1	-15,6	-6,0	4,4	-16,1
Basic chemicals	1,3	-3,7	6,5	-0,5	8,0	4,4
Other chemical products	11,6	17,0	13,6	11,0	12,7	3,9
Rubber products	12,8	9,0	9,9	3,1	7,3	7,4
Plastic products	2,7	10,2	8,2	8,3	7,2	10,1
Glass and non-metallic mineral products	6,4	6,2	1,6	-1,7	4,6	4,6
Glass and glass products	2,9	22,9	4,4	0,5	10,1	5,1
Non-metallic mineral products	7,1	3,2	1,0	-2,1	3,5	4,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	11,7	8,8	8,4	1,1	9,0	5,6
Basic iron and steel products	13,3	7,2	12,6	-5,2	-0,4	-0,5
Non-ferrous metal products	22,2	25,8	23,9	10,5	27,9	24,1
Structural metal products	3,5	-5,0	-1,9	-8,5	-3,1	-0,6
Other fabricated metal products	4,7	8,8	5,6	5,6	12,7	9,4
General purpose machinery	4,0	-3,9	2,3	-2,9	6,0	-1,2
Special purpose machinery	10,2	1,6	-8,5	2,4	4,2	-5,5
Household appliances	11,3	11,7	-0,9	-3,4	5,4	1,1
Electrical machinery	23,2	10,0	1,5	-6,8	-3,6	2,5
Radio, television and communication apparatus and professional equipment	13,9	13,8	21,0	16,5	8,3	9,8
Radio, television and communication apparatus	19,8	23,3	26,9	17,4	1,6	8,8
Professional equipment	7,2	3,2	13,3	14,8	20,2	11,5
Motor vehicles, parts and accessories and other transport equipment	27,7	19,0	13,8	11,1	19,0	13,7
Motor vehicles	34,8	19,1	9,9	17,1	21,3	14,5
Bodies for motor vehicles, trailers and semi-trailers	-0,3	10,0	11,1	5,3	9,1	5,3
Parts and accessories	24,1	26,3	17,4	7,1	21,1	11,1
Other transport equipment	17,3	-3,0	25,2	-8,2	3,6	20,3
Furniture and other manufacturing	-0,2	29,7	10,7	3,0	4,8	3,1
Furniture	-2,3	-3,0	-2,9	-2,9	14,3	6,0
Other manufacturing groups	0,4	40,3	15,2	5,0	2,1	2,2
Total	8,9	9,5	8,6	4,5	9,6	6,6

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

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

Manufacturing division and major group	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Month-on-month % change
Food and beverages	40 622	41 313	41 182	40 997	41 743	1,8
Meat, fish, fruit, etc.	11 310	11 467	11 597	11 359	11 660	2,6
Dairy products	3 336	3 400	3 350	3 457	3 353	-3,0
Grain mill products	6 870	6 795	6 789	6 774	6 873	1,5
Other food products	8 393	8 841	8 793	8 708	9 092	4,4
Beverages	10 713	10 810	10 653	10 699	10 765	0,6
Textiles, clothing, leather and footwear	4 636	4 626	4 667	4 687	4 710	0,5
Textiles	699	671	703	701	710	1,3
Other textile products	1 196	1 176	1 177	1 197	1 249	4,3
Knitted, crocheted articles	200	194	198	192	196	2,1
Wearing apparel	1 526	1 545	1 627	1 563	1 547	-1,0
Leather and leather products	582	600	517	602	599	-0,5
Footwear	433	439	446	432	409	-5,3
Wood and wood products, paper, publishing and printing	12 698	13 071	12 729	12 544	13 356	6,5
Sawmilling and planing of wood	781	659	771	778	743	-4,5
Products of wood	1 688	1 676	1 644	1 651	1 695	2,7
Paper and paper products	5 884	6 167	6 078	5 713	6 553	14,7
Publishing	1 770	1 896	1 673	1 752	1 793	2,3
Printing, recorded media	2 575	2 672	2 564	2 650	2 572	-2,9
Petroleum, chemical products, rubber and plastic products	36 169	35 828	36 415	36 961	35 631	-3,6
Coke, petroleum products and nuclear fuel	11 279	11 050	11 321	11 804	10 657	-9,7
Basic chemicals	7 547	7 638	7 614	7 860	7 835	-0,3
Other chemical products	10 565	10 379	10 487	10 539	10 116	-4,0
Rubber products	1 459	1 471	1 438	1 468	1 461	-0,5
Plastic products	5 319	5 290	5 556	5 289	5 563	5,2
Glass and non-metallic mineral products	4 902	4 730	4 689	4 785	4 818	0,7
Glass and glass products	968	859	825	896	879	-1,9
Non-metallic mineral products	3 934	3 871	3 865	3 889	3 939	1,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	35 076	35 116	34 115	34 402	34 536	0,4
Basic iron and steel products	9 445	9 696	8 681	8 714	9 039	3,7
Non-ferrous metal products	8 724	8 575	8 320	8 699	8 453	-2,8
Structural metal products	2 784	2 769	2 758	2 737	2 808	2,6
Other fabricated metal products	6 011	5 936	5 990	6 059	6 114	0,9
General purpose machinery	2 982	3 130	2 966	3 126	2 934	-6,1
Special purpose machinery	4 152	3 999	4 440	4 058	4 179	3,0
Household appliances	977	1 011	960	1 008	1 009	0,1
Electrical machinery	4 909	5 008	4 915	4 723	5 029	6,5
Radio, television and communication apparatus and professional equipment	2 235	2 345	2 332	2 170	2 255	3,9
Radio, television and communication apparatus	1 370	1 443	1 423	1 227	1 355	10,4
Professional equipment	864	902	910	943	900	-4,6
Motor vehicles, parts and accessories and other transport equipment	22 797	22 842	22 697	23 142	22 449	-3,0
Motor vehicles	12 647	12 361	12 629	13 038	12 469	-4,4
Bodies for motor vehicles, trailers and semi-trailers	971	951	1 022	963	909	-5,6
Parts and accessories	7 369	7 089	7 175	7 235	6 610	-8,6
Other transport equipment	1 810	2 440	1 871	1 906	2 460	29,1
Furniture and other manufacturing	6 753	5 493	5 532	5 429	5 596	3,1
Furniture	1 222	1 232	1 262	1 334	1 346	0,9
Other manufacturing groups	5 531	4 261	4 271	4 095	4 250	3,8
Total	170 798	170 371	169 274	169 839	170 124	0,2

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 2010. Both estimated and seasonally adjusted figures are presented.
 - 3 In order to improve timeliness, some information for the latest month had to be estimated due to late response. These estimates will be revised in future statistical releases as soon as information becomes available.
 - 4 Stats SA is continuously updating its BSF, based on units registered for value added tax (VAT) and income tax (IT) obtained from the South African Revenue Service (SARS).
- Purpose of the survey**
- 5 The results of the monthly manufacturing production and sales survey are used to calculate the volume of manufacturing production indices in order to estimate the gross domestic product (GDP) and its components, which in turn are used to develop and monitor government policy. These indices provide an indicator of the real level of manufacturing activity in the economy.
- Special Data Dissemination Standard of the IMF**
- 6 The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.
- Scope of the survey**
- 7 This survey covers manufacturing enterprises, i.e. those conducting activities in -
 - the manufacturing, processing, making or packing of products;
 - the slaughtering of animals, including poultry; and
 - installation, assembly, completion, repair and related work.
- Classification**
- 8 The 1993 edition of the *Standard Industrial Classification of all Economic Activities* (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 *International Standard Industrial Classification of all Economic Activities* (ISIC) with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two digit) and major group (three digit) level.
- Collection rate**
- 9 The preliminary collection rate for the survey on manufacturing production and sales for September 2016 was 87,9%. The improved collection rate for August 2016 was 91,0%.
- 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 3 005 enterprises from a population of 45 966 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 2016 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	1 878 106	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

Calculation of production index

- group in the base period. The current base period is 2010. The production in the base period is set at 100.
- 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 2016	NA

- 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 divisions and major groups	Weights according to national accounts value added		
	2011	2012	2013 – 2016
Food and beverages	23,82	24,44	24,53
Meat, fish, fruit, etc.	5,19	5,39	5,99
Dairy products	2,30	1,78	1,81
Grain mill products	2,78	2,86	2,61
Other food products	7,12	7,73	7,78
Beverages	6,43	6,68	6,34
Textiles, clothing, leather and footwear	2,92	3,17	3,34
Textiles	0,84	0,74	0,89
Other textile products	0,39	0,47	0,36
Knitted, crocheted articles	0,08	0,10	0,09
Wearing apparel	0,99	1,19	1,13
Leather and leather products	0,19	0,28	0,50
Footwear	0,43	0,39	0,37
Wood and wood products, paper, publishing and printing	9,46	12,65	12,62
Sawmilling and planing of wood	0,82	1,83	1,81
Products of wood	1,76	2,55	2,47
Paper and paper products	3,26	4,89	4,96
Publishing	1,45	1,51	1,55
Printing, recorded media	2,17	1,87	1,83
Petroleum, chemical products, rubber and plastic products	22,52	22,13	23,58
Coke, petroleum products and nuclear fuel	6,32	7,77	9,01
Basic chemicals	4,85	3,81	4,08
Other chemical products	7,06	6,49	6,21
Rubber products	1,18	1,00	1,35
Plastic products	3,11	3,06	2,93
Glass and non-metallic mineral products	4,42	3,91	4,15
Glass and glass products	0,89	0,78	0,83
Non-metallic mineral products	3,53	3,13	3,32
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,40	19,59	18,77
Basic iron and steel products	4,71	3,38	3,27
Non-ferrous metal products (including precious metals)	3,46	3,18	3,11
Structural metal products	2,21	1,89	1,83
Other fabricated metal products	3,89	4,40	3,92
General purpose machinery	2,44	2,44	2,37
Special purpose machinery	3,04	3,44	3,44
Household appliances	0,65	0,86	0,83
Electrical machinery	2,37	1,70	1,67
Radio, television and communication apparatus and professional equipment	1,45	1,41	1,55
Radio, television and communication apparatus	0,88	0,90	0,90
Professional equipment	0,57	0,51	0,65
Motor vehicles, parts and accessories and other transport equipment	8,58	7,39	6,85
Motor vehicles	3,84	2,98	2,47
Bodies for motor vehicles, trailers and semi-trailers	0,53	0,43	0,44
Parts and accessories	3,00	2,77	2,78
Other transport equipment	1,21	1,21	1,16
Furniture and other manufacturing	4,06	3,61	2,94
Furniture	1,05	1,08	1,06
Other manufacturing groups	3,01	2,53	1,88
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 March 2016](#)
- 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 *1993 Standard Industrial Classification of all Economic Activities*, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).

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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