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Statistical release

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Contents

Production: results for November 2015	2
Table A – Key growth rates in the volume of manufacturing production	2
Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2010=100)	3
Figure 1 – Volume of manufacturing production (Base: 2010=100)	4
Figure 2 – Volume of manufacturing production (Base: 2010=100): year-on-year percentage change	4
Sales: results for November 2015	5
Table C – Key growth rates in manufacturing sales at current prices	5
Table D – Seasonally adjusted manufacturing sales at current prices for the latest three months by division	5
Tables.....	6
Table 1 – Index of the volume of manufacturing production (Base: 2010=100).....	6
Table 2 – Year-on-year percentage change in the volume of manufacturing production	6
Table 3 – Seasonally adjusted volume of manufacturing production	6
Table 4 – Index of the volume of manufacturing production by division and major group (Base: 2010=100)	7
Table 5 – Year-on-year percentage change in the volume of manufacturing production by division and major group (Base: 2010=100)	8
Table 6 – Contribution of each division and major group to the year-on-year percentage change in the volume of manufacturing production (percentage points)	9
Table 7 – Seasonally adjusted index of the volume of manufacturing production by division and major group (Base: 2010=100).....	10
Table 8 – Manufacturing sales at current prices (R million)	11
Table 9 – Year-on-year percentage change in manufacturing sales at current prices.....	11
Table 10 – Seasonally adjusted manufacturing sales at current prices	11
Table 11 – Manufacturing sales at current prices by division and major group (R million)	12
Table 12 – Year-on-year percentage change in manufacturing sales at current prices by division and major group	13
Table 13 – Contribution of each division and major group to the year-on-year percentage change in manufacturing sales at current prices (percentage points)	14
Table 14 – Seasonally adjusted manufacturing sales at current prices by division and major group (R million)	15
Survey information	16
Technical notes.....	17
Table E – Weights by division and major group	19
Glossary.....	21
Technical enquiries	21
General information.....	22

Production: results for November 2015

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

	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15
Year-on-year % change, unadjusted	-0,7	5,2	-0,4	1,3	-2,1	-1,0
Month-on-month % change, seasonally adjusted	0,9	0,1	0,4	2,3	-1,7	-1,2
3-month % change, seasonally adjusted ¹	-1,6	-1,5	-0,4	1,4	1,7	0,9

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

Manufacturing production decreased by 1,0% in November 2015 compared with November 2014. This was mainly due to lower production in the basic iron and steel, non-ferrous metal products, metal products and machinery division (-7,0% and contributing -1,3 percentage points) – see Tables 5 and 6.

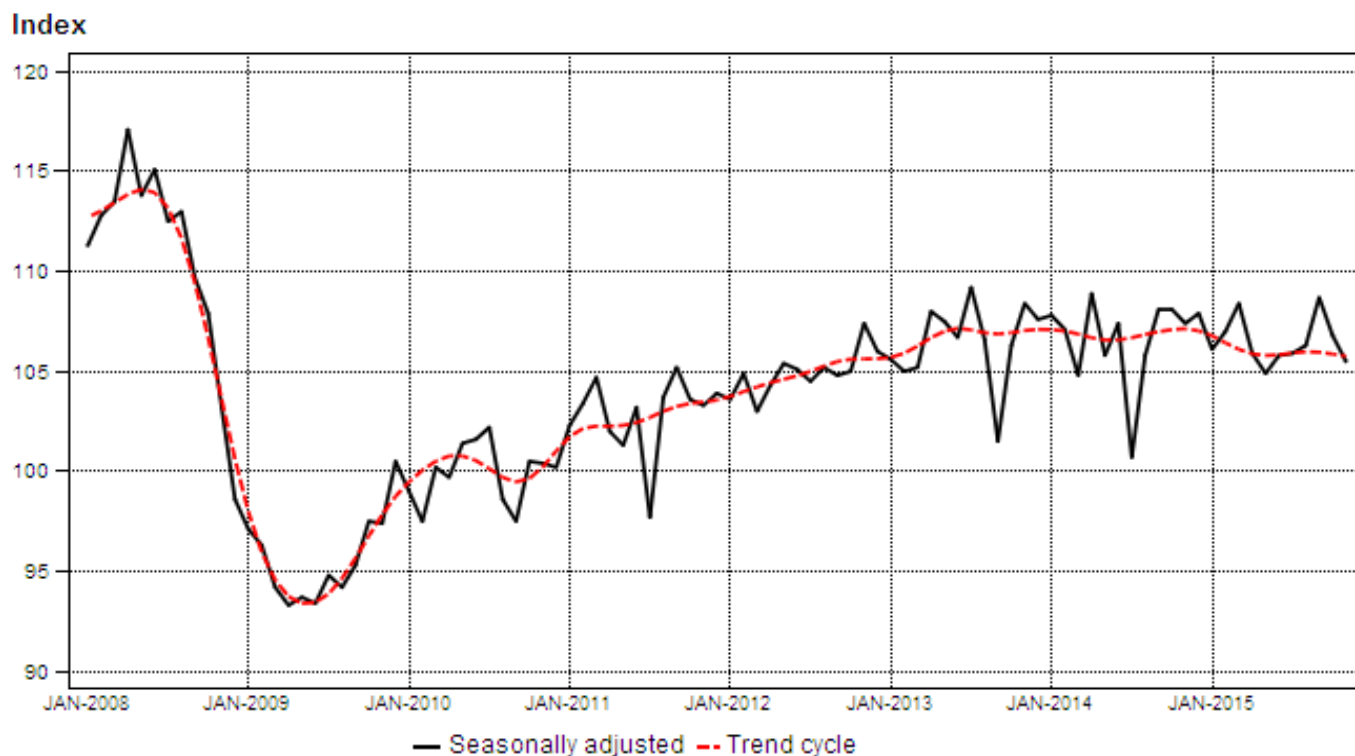
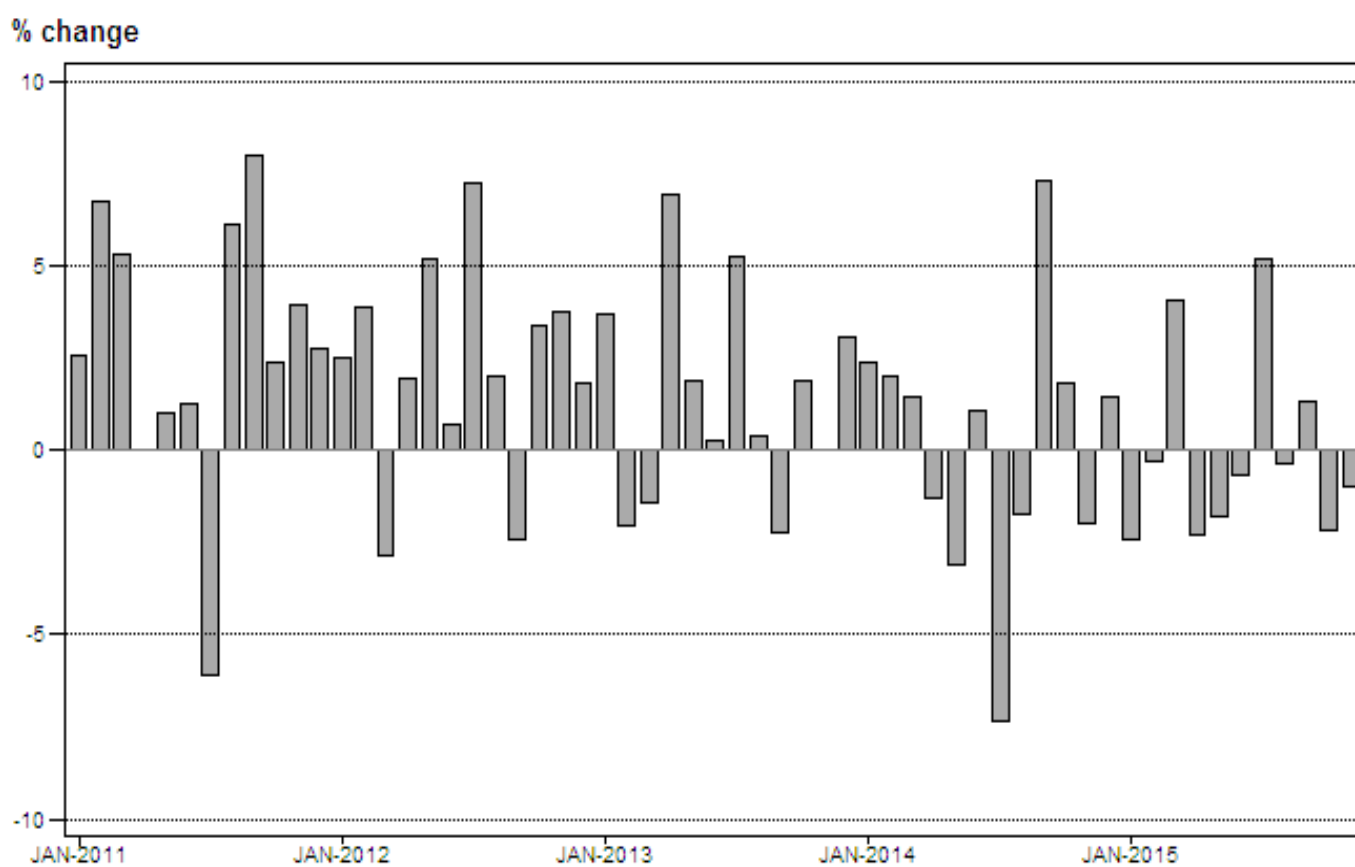
Seasonally adjusted manufacturing production decreased by 1,2% in November 2015 compared with October 2015. This followed month-on-month changes of -1,7% in October 2015 and 2,3% in September 2015 – see Table A.

In the three months ended November 2015, seasonally adjusted manufacturing production increased by 0,9% compared with the previous three months. Six of the ten manufacturing divisions reported positive growth rates over this period.

The main contributor to the 0,9% increase was the petroleum, chemical products, rubber and plastic products division (5,9% and contributing 1,3 percentage points) – 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 (2012)	Jun – Aug 2015	Sep – Nov 2015	% change between Jun – Aug 2015 and Sep – Nov 2015	Contribution (% points) to the total % change
Food and beverages	24,44	113,0	114,2	1,1	0,3
Meat, fish, fruit, etc.	5,39	118,8	122,0	2,7	0,2
Dairy products	1,78	117,3	118,3	0,9	0,0
Grain mill products	2,86	105,6	102,4	-3,0	-0,1
Other food products	7,73	107,0	105,2	-1,7	-0,1
Beverages	6,68	117,4	122,2	4,1	0,3
Textiles, clothing, leather and footwear	3,17	94,8	96,0	1,3	0,0
Textiles	0,74	83,6	83,3	-0,4	0,0
Other textile products	0,47	91,9	90,7	-1,3	0,0
Knitted, crocheted articles	0,10	57,1	53,8	-5,8	0,0
Wearing apparel	1,19	98,6	102,0	3,4	0,0
Leather and leather products	0,28	124,4	121,7	-2,2	0,0
Footwear	0,39	95,7	100,2	4,7	0,0
Wood and wood products, paper, publishing and printing	12,65	105,2	104,5	-0,7	-0,1
Sawmilling and planing of wood	1,83	129,2	125,9	-2,6	-0,1
Products of wood	2,55	105,1	102,3	-2,7	-0,1
Paper and paper products	4,89	103,9	105,4	1,4	0,1
Publishing	1,51	94,8	92,8	-2,1	0,0
Printing, recorded media	1,87	93,9	93,4	-0,5	0,0
Petroleum, chemical products, rubber and plastic products	22,13	105,1	111,3	5,9	1,3
Coke, petroleum products and nuclear fuel	7,77	90,5	107,9	19,2	1,3
Basic chemicals	3,81	117,7	114,7	-2,5	-0,1
Other chemical products	6,49	116,8	117,5	0,6	0,0
Rubber products	1,00	108,2	106,8	-1,3	0,0
Plastic products	3,06	100,8	103,7	2,9	0,1
Glass and non-metallic mineral products	3,91	97,6	100,3	2,8	0,1
Glass and glass products	0,78	91,6	95,1	3,8	0,0
Non-metallic mineral products	3,13	99,1	101,6	2,5	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	99,8	96,8	-3,0	-0,6
Basic iron and steel products	3,38	83,4	79,8	-4,3	-0,1
Non-ferrous metal products	3,18	96,5	92,1	-4,6	-0,1
Structural metal products	1,89	83,0	78,6	-5,3	-0,1
Other fabricated metal products	4,40	117,4	117,8	0,3	0,0
General purpose machinery	2,44	84,5	80,6	-4,6	-0,1
Special purpose machinery	3,44	114,1	110,0	-3,6	-0,1
Household appliances	0,86	110,3	106,1	-3,8	0,0
Electrical machinery	1,70	113,5	111,3	-1,9	0,0
Radio, television and communication apparatus and professional equipment	1,41	137,3	145,2	5,8	0,1
Radio, television and communication apparatus	0,90	155,3	167,4	7,8	0,1
Professional equipment	0,51	105,4	105,5	0,1	0,0
Motor vehicles, parts and accessories and other transport equipment	7,39	113,3	109,3	-3,5	-0,3
Motor vehicles	2,98	138,3	126,3	-8,7	-0,3
Bodies for motor vehicles, trailers and semi-trailers	0,43	118,6	110,1	-7,2	0,0
Parts and accessories	2,77	92,2	93,5	1,4	0,0
Other transport equipment	1,21	98,4	103,5	5,2	0,1
Furniture and other manufacturing	3,61	88,9	91,3	2,7	0,1
Furniture	1,08	107,0	107,9	0,8	0,0
Other manufacturing groups	2,53	81,1	84,2	3,8	0,1
Total	100	106,0	107,0	0,9	0,9

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 November 2015

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

	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15
Year-on-year % change, unadjusted	1,2	8,4	0,0	2,6	-1,3	1,7
Month-on-month % change, seasonally adjusted	-0,1	0,6	-0,3	2,3	-0,1	-1,6
3-month % change, seasonally adjusted ¹	1,2	2,1	0,9	1,9	1,6	1,7

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

Seasonally adjusted manufacturing sales decreased by 1,6% in November 2015 compared with October 2015. This followed month-on-month changes of -0,1% in October 2015 and 2,3% in September 2015 – see Table C.

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

Manufacturing division	Jun – Aug 2015 (R million)	Sep – Nov 2015 (R million)	% change between Jun – Aug 2015 and Sep – Nov 2015	Contribution (% points) to the total % change
Food and beverages	106 700	108 600	1,8	0,4
Textiles, clothing, leather and footwear	12 739	12 900	1,3	0,0
Wood and wood products, paper, publishing and printing	36 059	36 778	2,0	0,2
Petroleum, chemical products, rubber and plastic products	106 268	109 066	2,6	0,6
Glass and non-metallic mineral products	13 824	13 894	0,5	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	95 893	95 626	-0,3	-0,1
Electrical machinery	14 997	14 898	-0,7	0,0
Radio, television and communication apparatus and professional equipment	5 027	5 469	8,8	0,1
Motor vehicles, parts and accessories and other transport equipment	61 768	62 773	1,6	0,2
Furniture and other manufacturing	14 129	15 154	7,3	0,2
Total	467 407	475 158	1,7	1,7

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Statistician-General

Tables

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

Month	2009	2010	2011	2012	2013	2014	2015 ¹
Jan	82,7	84,5	86,7	88,9	92,2	94,4	92,1
Feb	91,1	92,2	98,4	102,2	100,1	102,1	101,8
Mar	97,6	103,8	109,3	106,2	104,7	106,2	110,5
Apr	86,6	93,4	93,4	95,2	101,8	100,5	98,2
May	94,2	100,6	101,6	106,9	108,9	105,5	103,6
Jun	94,5	102,9	104,2	104,9	105,2	106,3	105,6
Jul	98,2	105,3	98,9	106,1	111,7	103,5	108,9
Aug	96,3	101,6	107,8	110,0	110,4	108,5	108,1
Sep	99,9	102,2	110,4	107,7	105,3	113,0	114,5
Oct	108,4	110,3	112,9	116,7	118,9	121,1	118,5
Nov	107,9	112,2	116,6	121,0	121,0	118,6	117,4
Dec	89,2	91,0	93,5	95,2	98,1	99,5	
Total	95,6	100,0	102,8	105,1	106,5	106,6	

¹ The latest three months are preliminary.

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

Month	2010	2011	2012	2013	2014	2015	2015 year-to-date
Jan	2,2	2,6	2,5	3,7	2,4	-2,4	-2,4
Feb	1,2	6,7	3,9	-2,1	2,0	-0,3	-1,3
Mar	6,4	5,3	-2,8	-1,4	1,4	4,0	0,6
Apr	7,9	0,0	1,9	6,9	-1,3	-2,3	-0,1
May	6,8	1,0	5,2	1,9	-3,1	-1,8	-0,5
Jun	8,9	1,3	0,7	0,3	1,0	-0,7	-0,5
Jul	7,2	-6,1	7,3	5,3	-7,3	5,2	0,3
Aug	5,5	6,1	2,0	0,4	-1,7	-0,4	0,2
Sep	2,3	8,0	-2,4	-2,2	7,3	1,3	0,4
Oct	1,8	2,4	3,4	1,9	1,9	-2,1	0,1
Nov	4,0	3,9	3,8	0,0	-2,0	-1,0	0,0
Dec	2,0	2,7	1,8	3,0	1,4		
Total	4,6	2,8	2,2	1,3	0,1		

Table 3 – Seasonally adjusted volume of manufacturing production

Month	Index (Base: 2010=100)				Month-on-month % change			
	2012	2013	2014	2015	2012	2013	2014	2015
Jan	103,6	105,6	107,8	106,1	-0,3	-0,4	0,2	-1,7
Feb	104,9	105,0	107,1	107,0	1,3	-0,6	-0,6	0,8
Mar	103,0	105,2	104,8	108,4	-1,8	0,2	-2,1	1,3
Apr	104,3	108,0	108,9	105,9	1,3	2,7	3,9	-2,3
May	105,4	107,5	105,8	104,9	1,1	-0,5	-2,8	-0,9
Jun	105,1	106,7	107,4	105,8	-0,3	-0,7	1,5	0,9
Jul	104,5	109,2	100,7	105,9	-0,6	2,3	-6,2	0,1
Aug	105,2	106,6	105,8	106,3	0,7	-2,4	5,1	0,4
Sep	104,8	101,5	108,1	108,7	-0,4	-4,8	2,2	2,3
Oct	105,0	106,3	108,1	106,8	0,2	4,7	0,0	-1,7
Nov	107,4	108,4	107,4	105,5	2,3	2,0	-0,6	-1,2
Dec	106,0	107,6	107,9		-1,3	-0,7	0,5	

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

Manufacturing division and major group	Weight (2012)	Jun-15	Jul-15	Aug-15	¹ Sep-15	¹ Oct-15	¹ Nov-15
Food and beverages	24,44	110,6	112,9	114,4	123,4	126,5	121,1
Meat, fish, fruit, etc.	5,39	119,0	116,8	121,3	124,3	126,9	132,4
Dairy products	1,78	109,7	116,0	108,1	122,7	134,5	123,2
Grain mill products	2,86	108,8	108,4	108,8	106,8	105,1	108,9
Other food products	7,73	113,9	119,8	118,1	119,9	124,9	102,6
Beverages	6,68	101,1	102,7	108,5	134,1	134,9	138,1
Textiles, clothing, leather and footwear	3,17	89,9	99,8	97,0	102,8	113,5	112,4
Textiles	0,74	83,1	86,8	83,9	90,7	91,2	91,2
Other textile products	0,47	92,7	97,8	88,7	91,0	110,9	105,7
Knitted, crocheted articles	0,10	52,6	59,3	52,0	53,9	62,9	61,3
Wearing apparel	1,19	90,2	104,2	104,4	108,6	123,5	125,4
Leather and leather products	0,28	129,6	115,7	120,8	126,0	126,4	136,2
Footwear	0,39	79,6	112,1	102,9	117,4	131,3	116,7
Wood and wood products, paper, publishing and printing	12,65	104,5	108,7	106,8	115,4	114,6	119,6
Sawmilling and planing of wood	1,83	135,1	140,3	123,7	135,2	137,0	131,2
Products of wood	2,55	108,9	113,6	105,1	112,0	118,9	116,3
Paper and paper products	4,89	103,1	100,3	109,6	121,1	110,0	113,5
Publishing	1,51	89,3	91,7	100,4	103,0	107,0	114,3
Printing, recorded media	1,87	84,6	106,7	90,3	95,9	104,8	132,8
Petroleum, chemical products, rubber and plastic products	22,13	100,7	106,1	109,3	113,6	123,5	120,0
Coke, petroleum products and nuclear fuel	7,77	84,3	92,1	94,1	100,6	114,6	109,9
Basic chemicals	3,81	110,9	119,7	123,8	118,6	129,9	124,6
Other chemical products	6,49	114,2	116,1	121,8	131,0	132,0	127,7
Rubber products	1,00	109,8	111,4	106,5	104,4	120,5	113,9
Plastic products	3,06	97,9	101,7	104,3	106,8	120,8	125,9
Glass and non-metallic mineral products	3,91	101,3	106,6	100,9	110,9	111,6	111,8
Glass and glass products	0,78	84,2	102,8	98,0	106,4	109,5	111,9
Non-metallic mineral products	3,13	105,6	107,5	101,6	112,0	112,1	111,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	102,8	104,4	100,1	103,8	103,9	104,5
Basic iron and steel products	3,38	80,9	87,7	76,4	80,4	81,3	80,5
Non-ferrous metal products	3,18	99,5	98,8	93,9	93,2	98,0	92,0
Structural metal products	1,89	82,9	89,1	84,4	84,7	90,0	87,0
Other fabricated metal products	4,40	122,9	125,4	120,5	131,0	131,4	132,8
General purpose machinery	2,44	85,5	86,5	91,9	85,9	88,9	88,5
Special purpose machinery	3,44	121,4	117,8	114,8	122,9	112,0	120,9
Household appliances	0,86	116,5	113,6	110,0	113,6	114,6	118,4
Electrical machinery	1,70	117,3	124,7	116,8	123,4	116,3	126,5
Radio, television and communication apparatus and professional equipment	1,41	133,1	132,1	150,1	154,8	165,9	178,9
Radio, television and communication apparatus	0,90	144,0	151,9	177,9	181,6	192,3	211,9
Professional equipment	0,51	113,6	96,9	100,5	107,0	118,7	120,2
Motor vehicles, parts and accessories and other transport equipment	7,39	119,8	123,8	114,3	116,6	123,8	125,6
Motor vehicles	2,98	145,5	154,6	141,7	133,8	147,4	153,2
Bodies for motor vehicles, trailers and semi-trailers	0,43	125,9	132,5	118,0	115,5	136,3	125,1
Parts and accessories	2,77	92,6	103,2	91,1	97,6	102,6	105,9
Other transport equipment	1,21	116,4	92,1	98,3	118,1	109,6	103,1
Furniture and other manufacturing	3,61	94,9	88,9	91,6	104,0	109,2	104,3
Furniture	1,08	110,5	114,7	106,5	118,0	137,9	140,7
Other manufacturing groups	2,53	88,3	77,7	85,2	97,9	96,9	88,7
Total	100	105,6	108,9	108,1	114,5	118,5	117,4

¹ The latest three months are preliminary.

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

Manufacturing division and major group	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15
Food and beverages	3,5	-0,1	3,8	3,4	3,9	2,5
Meat, fish, fruit, etc.	3,7	-1,3	6,2	1,6	5,5	9,3
Dairy products	17,1	14,5	4,8	6,9	8,4	5,4
Grain mill products	-1,5	1,1	2,5	-0,7	-3,6	1,1
Other food products	2,2	-3,4	4,3	-1,3	6,4	-8,6
Beverages	3,8	1,2	1,1	10,9	1,5	8,4
Textiles, clothing, leather and footwear	0,6	-0,5	-0,7	-1,6	-4,1	-4,3
Textiles	-0,5	7,8	13,2	-1,0	-5,5	-5,7
Other textile products	-0,6	2,0	-11,0	-7,7	-3,6	-6,2
Knitted, crocheted articles	15,1	12,5	8,8	-2,0	2,1	-8,6
Wearing apparel	-2,3	-2,3	-1,4	1,7	-2,1	-2,6
Leather and leather products	6,8	-0,2	13,9	3,4	-2,8	0,1
Footwear	5,7	-9,2	-15,0	-8,8	-9,4	-8,2
Wood and wood products, paper, publishing and printing	1,5	3,8	4,5	1,8	-3,2	-0,7
Sawmilling and planing of wood	12,3	13,6	10,3	17,5	2,8	4,6
Products of wood	8,6	15,4	0,2	-4,6	-2,1	-2,1
Paper and paper products	-1,8	1,1	12,6	9,6	0,3	-1,6
Publishing	-13,1	-8,4	-3,4	-11,3	-14,3	-8,6
Printing, recorded media	0,4	-5,7	-10,0	-14,4	-10,4	4,6
Petroleum, chemical products, rubber and plastic products	-6,0	-2,8	3,3	6,2	1,9	-1,5
Coke, petroleum products and nuclear fuel	-21,4	-16,5	8,7	15,6	9,8	1,1
Basic chemicals	5,4	0,4	4,7	1,9	-1,7	-9,2
Other chemical products	2,7	6,9	1,6	6,5	-2,6	-0,7
Rubber products	9,1	13,2	8,1	-2,1	0,1	-4,3
Plastic products	-4,6	3,2	-6,8	-5,0	0,5	3,1
Glass and non-metallic mineral products	-0,8	-3,4	-1,7	6,2	-4,6	2,9
Glass and glass products	1,0	12,7	0,7	14,0	0,7	7,1
Non-metallic mineral products	-1,0	-6,7	-2,2	4,6	-5,9	1,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	-4,6	18,0	-8,9	-4,5	-10,3	-7,0
Basic iron and steel products	-15,2	12,1	-22,8	-15,2	-18,8	-17,9
Non-ferrous metal products	-3,6	9,1	-13,6	-8,1	-11,2	-8,6
Structural metal products	-7,8	32,4	1,0	5,2	-7,4	-6,5
Other fabricated metal products	-6,5	32,6	-7,5	-5,9	-6,2	-2,7
General purpose machinery	-6,5	10,5	-3,6	-6,3	-14,2	-7,5
Special purpose machinery	4,5	8,2	-4,1	3,4	-7,2	-2,3
Household appliances	9,5	36,2	-2,8	10,2	-11,1	-11,5
Electrical machinery	2,6	52,4	7,1	9,3	2,2	10,7
Radio, television and communication apparatus and professional equipment	-3,6	7,9	-6,4	2,4	-3,4	1,8
Radio, television and communication apparatus	-4,3	8,3	-10,2	4,7	-6,5	0,2
Professional equipment	-1,7	7,1	7,7	-3,9	6,6	7,5
Motor vehicles, parts and accessories and other transport equipment	10,8	36,5	-4,2	-7,5	-6,6	3,4
Motor vehicles	9,7	56,6	-6,5	-16,7	-12,6	-0,2
Bodies for motor vehicles, trailers and semi-trailers	9,5	39,5	6,3	-5,0	-3,4	0,9
Parts and accessories	3,7	23,7	-4,0	-0,9	-0,1	7,7
Other transport equipment	32,1	6,7	-0,1	12,2	0,5	8,3
Furniture and other manufacturing	-4,6	-16,6	-9,7	0,4	-10,5	-10,2
Furniture	-6,5	-4,8	-8,3	-4,2	-3,8	1,2
Other manufacturing groups	-3,4	-22,8	-10,3	2,8	-14,1	-16,6
Total	-0,7	5,2	-0,4	1,3	-2,1	-1,0

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 (2012)	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15
Food and beverages	24,44	0,9	0,0	0,9	0,9	0,9	0,6
Meat, fish, fruit, etc.	5,39	0,2	-0,1	0,4	0,1	0,3	0,5
Dairy products	1,78	0,3	0,3	0,1	0,1	0,2	0,1
Grain mill products	2,86	0,0	0,0	0,1	0,0	-0,1	0,0
Other food products	7,73	0,2	-0,3	0,3	-0,1	0,5	-0,6
Beverages	6,68	0,2	0,1	0,1	0,8	0,1	0,6
Textiles, clothing, leather and footwear	3,17	0,0	0,0	0,0	0,0	-0,1	-0,1
Textiles	0,74	0,0	0,0	0,1	0,0	0,0	0,0
Other textile products	0,47	0,0	0,0	0,0	0,0	0,0	0,0
Knitted, crocheted articles	0,10	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	1,19	0,0	0,0	0,0	0,0	0,0	0,0
Leather and leather products	0,28	0,0	0,0	0,0	0,0	0,0	0,0
Footwear	0,39	0,0	0,0	-0,1	0,0	0,0	0,0
Wood and wood products, paper, publishing and printing	12,65	0,2	0,5	0,5	0,2	-0,4	-0,1
Sawmilling and planing of wood	1,83	0,3	0,3	0,2	0,3	0,1	0,1
Products of wood	2,55	0,2	0,4	0,0	-0,1	-0,1	-0,1
Paper and paper products	4,89	-0,1	0,1	0,6	0,5	0,0	-0,1
Publishing	1,51	-0,2	-0,1	0,0	-0,2	-0,2	-0,1
Printing, recorded media	1,87	0,0	-0,1	-0,2	-0,3	-0,2	0,1
Petroleum, chemical products, rubber and plastic products	22,13	-1,3	-0,7	0,7	1,3	0,4	-0,3
Coke, petroleum products and nuclear fuel	7,77	-1,7	-1,4	0,5	0,9	0,7	0,1
Basic chemicals	3,81	0,2	0,0	0,2	0,1	-0,1	-0,4
Other chemical products	6,49	0,2	0,5	0,1	0,5	-0,2	0,0
Rubber products	1,00	0,1	0,1	0,1	0,0	0,0	0,0
Plastic products	3,06	-0,1	0,1	-0,2	-0,2	0,0	0,1
Glass and non-metallic mineral products	3,91	0,0	-0,1	-0,1	0,2	-0,2	0,1
Glass and glass products	0,78	0,0	0,1	0,0	0,1	0,0	0,0
Non-metallic mineral products	3,13	0,0	-0,2	-0,1	0,1	-0,2	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	-0,9	3,0	-1,8	-0,8	-1,9	-1,3
Basic iron and steel products	3,38	-0,5	0,3	-0,7	-0,4	-0,5	-0,5
Non-ferrous metal products	3,18	-0,1	0,3	-0,4	-0,2	-0,3	-0,2
Structural metal products	1,89	-0,1	0,4	0,0	0,1	-0,1	-0,1
Other fabricated metal products	4,40	-0,4	1,3	-0,4	-0,3	-0,3	-0,1
General purpose machinery	2,44	-0,1	0,2	-0,1	-0,1	-0,3	-0,1
Special purpose machinery	3,44	0,2	0,3	-0,2	0,1	-0,2	-0,1
Household appliances	0,86	0,1	0,3	0,0	0,1	-0,1	-0,1
Electrical machinery	1,70	0,0	0,7	0,1	0,2	0,0	0,2
Radio, television and communication apparatus and professional equipment	1,41	-0,1	0,1	-0,1	0,0	-0,1	0,0
Radio, television and communication apparatus	0,90	-0,1	0,1	-0,2	0,1	-0,1	0,0
Professional equipment	0,51	0,0	0,0	0,0	0,0	0,0	0,0
Motor vehicles, parts and accessories and other transport equipment	7,39	0,8	2,4	-0,3	-0,6	-0,5	0,3
Motor vehicles	2,98	0,4	1,6	-0,3	-0,7	-0,5	0,0
Bodies for motor vehicles, trailers and semi-trailers	0,43	0,0	0,2	0,0	0,0	0,0	0,0
Parts and accessories	2,77	0,1	0,5	-0,1	0,0	0,0	0,2
Other transport equipment	1,21	0,3	0,1	0,0	0,1	0,0	0,1
Furniture and other manufacturing	3,61	-0,2	-0,6	-0,3	0,0	-0,4	-0,4
Furniture	1,08	-0,1	-0,1	-0,1	0,0	0,0	0,0
Other manufacturing groups	2,53	-0,1	-0,6	-0,2	0,1	-0,3	-0,4
Total	100	-0,7	5,2	-0,4	1,3	-2,1	-1,0

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 (2012)	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Month-on-month % change
Food and beverages	24,44	111,3	114,2	114,3	116,6	111,6	-4,3
Meat, fish, fruit, etc.	5,39	115,4	122,1	119,4	123,5	123,1	-0,3
Dairy products	1,78	119,1	114,6	117,6	120,2	117,0	-2,7
Grain mill products	2,86	105,1	106,0	103,0	102,5	101,8	-0,7
Other food products	7,73	104,4	108,7	105,1	111,9	98,6	-11,9
Beverages	6,68	116,7	117,7	124,7	121,6	120,3	-1,1
Textiles, clothing, leather and footwear	3,17	95,5	96,3	96,6	96,7	94,8	-2,0
Textiles	0,74	83,3	86,4	85,5	81,8	82,6	1,0
Other textile products	0,47	93,2	89,4	88,5	95,2	88,5	-7,0
Knitted, crocheted articles	0,10	59,5	57,1	54,1	55,2	52,0	-5,8
Wearing apparel	1,19	100,7	100,3	102,6	103,0	100,3	-2,6
Leather and leather products	0,28	119,5	128,4	126,5	117,5	121,0	3,0
Footwear	0,39	97,1	98,1	98,1	102,5	100,1	-2,3
Wood and wood products, paper, publishing and printing	12,65	105,8	104,5	106,0	103,0	104,4	1,4
Sawmilling and planing of wood	1,83	130,5	125,3	130,5	124,4	122,8	-1,3
Products of wood	2,55	106,5	101,0	104,2	101,8	101,0	-0,8
Paper and paper products	4,89	103,3	107,6	108,4	104,4	103,4	-1,0
Publishing	1,51	94,3	95,0	93,3	91,4	93,7	2,5
Printing, recorded media	1,87	96,6	88,6	88,5	89,4	102,2	14,3
Petroleum, chemical products, rubber and plastic products	22,13	103,8	108,9	112,8	111,7	109,3	-2,1
Coke, petroleum products and nuclear fuel	7,77	87,8	95,7	107,5	110,0	106,2	-3,5
Basic chemicals	3,81	118,3	121,5	118,3	115,0	110,7	-3,7
Other chemical products	6,49	115,0	120,6	122,4	115,4	114,6	-0,7
Rubber products	1,00	106,6	112,9	104,0	110,1	106,3	-3,5
Plastic products	3,06	101,4	100,8	101,7	104,3	105,0	0,7
Glass and non-metallic mineral products	3,91	98,1	97,3	102,6	99,0	99,4	0,4
Glass and glass products	0,78	96,2	90,8	98,6	91,9	94,7	3,0
Non-metallic mineral products	3,13	98,6	98,9	103,6	100,7	100,6	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	101,8	96,8	99,8	94,8	95,7	0,9
Basic iron and steel products	3,38	92,0	77,2	80,4	78,1	80,8	3,5
Non-ferrous metal products	3,18	96,3	90,0	93,7	90,6	92,0	1,5
Structural metal products	1,89	85,6	82,4	82,8	77,1	75,9	-1,6
Other fabricated metal products	4,40	117,8	114,5	121,0	116,4	116,0	-0,3
General purpose machinery	2,44	83,5	86,7	82,5	79,6	79,8	0,3
Special purpose machinery	3,44	115,8	112,2	116,5	106,1	107,5	1,3
Household appliances	0,86	109,8	108,2	109,7	103,3	105,3	1,9
Electrical machinery	1,70	120,0	112,4	113,8	108,0	112,0	3,7
Radio, television and communication apparatus and professional equipment	1,41	136,4	138,3	144,9	143,1	147,5	3,1
Radio, television and communication apparatus	0,90	155,0	156,7	171,2	162,2	168,8	4,1
Professional equipment	0,51	103,3	105,6	98,0	109,0	109,6	0,6
Motor vehicles, parts and accessories and other transport equipment	7,39	115,9	109,8	110,0	107,5	110,5	2,8
Motor vehicles	2,98	141,6	133,5	125,9	121,4	131,6	8,4
Bodies for motor vehicles, trailers and semi-trailers	0,43	119,8	115,6	112,1	112,9	105,3	-6,7
Parts and accessories	2,77	96,2	89,3	91,1	94,8	94,5	-0,3
Other transport equipment	1,21	96,4	96,3	113,2	100,1	97,2	-2,9
Furniture and other manufacturing	3,61	84,0	90,1	101,3	88,6	84,0	-5,2
Furniture	1,08	108,1	103,8	109,4	107,0	107,3	0,3
Other manufacturing groups	2,53	73,7	84,3	97,9	80,7	74,1	-8,2
Total	100	105,9	106,3	108,7	106,8	105,5	-1,2

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

Month	2009	2010	2011	2012	2013	2014	2015 ¹
Jan	89 616	90 215	95 994	107 218	116 532	130 303	129 333
Feb	101 570	101 983	111 651	125 750	131 788	146 300	143 332
Mar	110 013	115 516	126 331	133 374	137 740	151 487	161 661
Apr	94 153	101 853	108 005	117 453	133 321	143 553	142 263
May	100 754	109 489	117 657	130 302	141 196	148 043	153 030
Jun	102 477	113 772	122 233	130 849	139 275	155 933	157 801
Jul	104 040	113 046	113 051	127 702	146 362	145 849	158 167
Aug	105 013	110 779	125 128	134 503	143 958	156 037	156 112
Sep	109 202	113 369	133 135	131 890	140 221	162 333	166 634
Oct	114 706	121 878	133 901	144 549	156 327	175 379	173 038
Nov	116 959	126 703	139 235	153 267	162 140	170 409	173 369
Dec	99 452	104 635	117 662	123 569	140 451	148 058	
Total	1 247 955	1 323 238	1 443 983	1 560 426	1 689 311	1 833 684	

¹ The latest three months are preliminary.

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

Month	2010	2011	2012	2013	2014	2015	2015 year-to-date
Jan	0,7	6,4	11,7	8,7	11,8	-0,7	-0,7
Feb	0,4	9,5	12,6	4,8	11,0	-2,0	-1,4
Mar	5,0	9,4	5,6	3,3	10,0	6,7	1,5
Apr	8,2	6,0	8,7	13,5	7,7	-0,9	0,9
May	8,7	7,5	10,7	8,4	4,8	3,4	1,4
Jun	11,0	7,4	7,0	6,4	12,0	1,2	1,3
Jul	8,7	0,0	13,0	14,6	-0,4	8,4	2,4
Aug	5,5	13,0	7,5	7,0	8,4	0,0	2,1
Sep	3,8	17,4	-0,9	6,3	15,8	2,6	2,1
Oct	6,3	9,9	8,0	8,1	12,2	-1,3	1,7
Nov	8,3	9,9	10,1	5,8	5,1	1,7	1,7
Dec	5,2	12,4	5,0	13,7	5,4		
Total	6,0	9,1	8,1	8,3	8,5		

Table 10 – Seasonally adjusted manufacturing sales at current prices

Month	R million				Month-on-month % change			
	2012	2013	2014	2015	2012	2013	2014	2015
Jan	126 616	135 375	150 556	151 319	-0,4	1,3	0,9	-2,9
Feb	128 255	137 289	152 402	149 610	1,3	1,4	1,2	-1,1
Mar	127 258	137 082	147 038	156 014	-0,8	-0,2	-3,5	4,3
Apr	127 372	138 489	153 456	151 810	0,1	1,0	4,4	-2,7
May	129 579	140 394	148 824	155 407	1,7	1,4	-3,0	2,4
Jun	129 103	139 164	154 768	155 317	-0,4	-0,9	4,0	-0,1
Jul	127 650	145 265	144 502	156 302	-1,1	4,4	-6,6	0,6
Aug	130 697	141 477	154 710	155 788	2,4	-2,6	7,1	-0,3
Sep	128 911	135 920	155 813	159 337	-1,4	-3,9	0,7	2,3
Oct	132 131	142 693	160 015	159 210	2,5	5,0	2,7	-0,1
Nov	136 054	145 715	155 203	156 611	3,0	2,1	-3,0	-1,6
Dec	133 603	149 236	155 903		-1,8	2,4	0,5	

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

Manufacturing division and major group	Jun-15	Jul-15	Aug-15	¹ Sep-15	¹ Oct-15	¹ Nov-15
Food and beverages	33 638	34 547	35 218	37 693	38 477	39 951
Meat, fish, fruit, etc.	9 422	9 641	9 794	10 267	10 453	11 017
Dairy products	3 111	3 297	3 160	3 312	3 652	3 467
Grain mill products	5 707	5 921	5 781	5 802	5 845	6 085
Other food products	6 717	6 959	6 916	7 280	7 489	7 650
Beverages	8 681	8 729	9 567	11 032	11 038	11 732
Textiles, clothing, leather and footwear	4 111	4 354	4 294	4 475	5 062	5 046
Textiles	595	583	579	648	657	671
Other textile products	1 193	1 278	1 168	1 168	1 469	1 365
Knitted, crocheted articles	184	216	198	199	229	234
Wearing apparel	1 075	1 271	1 287	1 358	1 531	1 603
Leather and leather products	639	575	627	645	625	655
Footwear	425	432	436	458	552	518
Wood and wood products, paper, publishing and printing	11 896	12 136	12 361	13 631	13 340	14 318
Sawmilling and planing of wood	935	995	838	1 081	1 041	917
Products of wood	1 688	1 685	1 674	1 818	1 887	1 881
Paper and paper products	5 689	5 266	5 913	6 587	5 836	6 154
Publishing	1 526	1 580	1 718	1 773	1 910	2 054
Printing, recorded media	2 058	2 611	2 219	2 371	2 665	3 312
Petroleum, chemical products, rubber and plastic products	36 626	35 945	35 315	37 974	40 354	38 279
Coke, petroleum products and nuclear fuel	14 466	13 242	11 804	12 646	13 811	12 285
Basic chemicals	7 123	7 262	7 420	8 122	8 584	7 633
Other chemical products	8 763	8 767	9 361	10 164	10 059	10 252
Rubber products	1 381	1 433	1 391	1 391	1 565	1 527
Plastic products	4 893	5 241	5 339	5 650	6 336	6 582
Glass and non-metallic mineral products	4 804	4 950	4 837	5 123	5 303	5 365
Glass and glass products	779	780	809	887	972	1 035
Non-metallic mineral products	4 025	4 170	4 028	4 236	4 331	4 331
Basic iron and steel, non-ferrous metal products, metal products and machinery	33 672	33 144	31 819	33 755	34 330	34 131
Basic iron and steel products	9 353	8 992	8 727	9 372	9 226	8 669
Non-ferrous metal products	7 112	7 268	6 798	6 925	7 932	7 620
Structural metal products	2 950	3 015	2 942	3 029	3 060	3 020
Other fabricated metal products	5 481	5 595	5 407	5 837	5 903	5 917
General purpose machinery	3 151	2 849	2 880	2 896	2 976	3 020
Special purpose machinery	4 653	4 549	4 211	4 792	4 220	4 851
Household appliances	972	876	853	904	1 012	1 034
Electrical machinery	5 244	5 365	5 117	5 558	4 941	5 707
Radio, television and communication apparatus and professional equipment	1 633	1 663	1 823	1 923	2 003	2 256
Radio, television and communication apparatus	925	1 017	1 159	1 191	1 222	1 451
Professional equipment	708	646	664	733	780	804
Motor vehicles, parts and accessories and other transport equipment	21 565	21 135	20 403	21 329	23 439	22 844
Motor vehicles	11 491	11 211	10 829	11 148	12 907	12 475
Bodies for motor vehicles, trailers and semi-trailers	795	874	832	854	909	875
Parts and accessories	6 308	6 695	6 228	6 214	6 864	6 824
Other transport equipment	2 971	2 355	2 514	3 113	2 759	2 670
Furniture and other manufacturing	4 613	4 928	4 925	5 172	5 790	5 472
Furniture	1 181	1 244	1 136	1 277	1 531	1 542
Other manufacturing groups	3 432	3 683	3 789	3 895	4 258	3 929
Total	157 801	158 167	156 112	166 634	173 038	173 369

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	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15
Food and beverages	8,0	9,1	10,1	8,9	7,2	13,2
Meat, fish, fruit, etc.	5,3	8,2	12,0	8,7	10,9	17,9
Dairy products	18,7	17,8	12,4	8,5	8,2	9,2
Grain mill products	0,7	7,6	6,3	5,5	6,1	13,7
Other food products	9,9	8,2	2,7	7,3	4,8	3,2
Beverages	11,2	8,7	15,9	12,3	5,9	17,2
Textiles, clothing, leather and footwear	5,7	6,6	2,6	2,1	1,6	2,2
Textiles	2,8	6,6	13,8	6,6	-4,6	2,6
Other textile products	2,8	11,8	-5,4	-3,7	3,9	2,1
Knitted, crocheted articles	-1,6	-0,5	3,1	-6,1	0,9	9,3
Wearing apparel	1,2	5,2	3,0	5,3	5,1	1,5
Leather and leather products	10,6	13,9	18,3	17,9	3,6	13,7
Footwear	32,4	-6,7	-6,8	-10,7	-7,1	-9,8
Wood and wood products, paper, publishing and printing	5,3	5,8	10,1	7,2	3,1	5,9
Sawmilling and planing of wood	10,9	18,5	11,4	29,2	12,7	4,2
Products of wood	4,8	12,6	5,1	2,8	2,2	2,9
Paper and paper products	8,5	9,7	17,9	14,5	7,7	7,3
Publishing	-7,7	-2,6	4,1	-3,9	-5,1	-1,9
Printing, recorded media	5,6	-3,6	0,2	-5,8	-2,8	11,1
Petroleum, chemical products, rubber and plastic products	-3,2	-8,7	-5,6	4,0	-7,6	-11,4
Coke, petroleum products and nuclear fuel	-8,7	-22,6	-14,4	5,4	-14,3	-23,2
Basic chemicals	-4,3	-10,0	-8,1	-4,2	-13,9	-22,7
Other chemical products	9,0	11,6	8,0	12,3	4,4	6,0
Rubber products	-0,5	8,2	5,4	0,7	-0,4	-2,3
Plastic products	-4,6	4,2	-3,9	0,6	-1,0	8,1
Glass and non-metallic mineral products	-0,4	0,6	-0,5	0,1	-2,9	5,2
Glass and glass products	5,7	2,8	8,6	6,2	6,7	11,3
Non-metallic mineral products	-1,5	0,2	-2,1	-1,1	-4,8	3,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	-3,7	25,6	-7,1	-2,6	-6,1	-2,7
Basic iron and steel products	-16,2	36,3	-19,5	-10,2	-12,1	-8,9
Non-ferrous metal products	-4,8	10,6	-7,5	-8,8	2,5	-4,1
Structural metal products	-0,3	37,0	7,2	15,2	-5,4	-1,0
Other fabricated metal products	0,4	33,9	0,9	-0,3	-2,1	0,7
General purpose machinery	3,6	10,0	-8,3	-5,8	-12,8	-5,6
Special purpose machinery	17,4	25,5	6,1	13,2	-9,2	8,7
Household appliances	5,5	38,2	1,9	7,2	1,3	0,2
Electrical machinery	4,9	58,4	6,0	9,8	0,5	16,6
Radio, television and communication apparatus and professional equipment	-0,2	15,5	-8,9	-2,1	-1,4	8,0
Radio, television and communication apparatus	0,8	18,1	-14,5	-3,2	-9,5	8,2
Professional equipment	-1,5	11,6	2,8	0,0	14,5	7,5
Motor vehicles, parts and accessories and other transport equipment	5,3	17,8	1,9	-2,3	0,2	8,7
Motor vehicles	-2,4	16,9	1,4	-7,0	-0,5	8,3
Bodies for motor vehicles, trailers and semi-trailers	-3,3	15,2	8,3	-2,8	-6,6	0,6
Parts and accessories	12,0	20,8	1,1	-1,7	0,7	4,7
Other transport equipment	31,9	15,0	3,5	17,4	5,1	27,1
Furniture and other manufacturing	-4,8	-4,1	-6,6	-5,0	4,7	3,3
Furniture	-1,3	3,7	-2,8	6,5	3,1	8,3
Other manufacturing groups	-6,0	-6,5	-7,7	-8,2	5,3	1,4
Total	1,2	8,4	0,0	2,6	-1,3	1,7

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

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

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

Manufacturing division and major group	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Month-on-month % change
Food and beverages	35 535	36 207	35 966	36 114	36 520	1,1
Meat, fish, fruit, etc.	9 592	9 889	9 793	9 948	10 017	0,7
Dairy products	3 320	3 316	3 266	3 321	3 335	0,4
Grain mill products	5 712	5 694	5 671	5 738	5 831	1,6
Other food products	6 893	6 847	6 913	6 897	6 821	-1,1
Beverages	10 018	10 461	10 323	10 210	10 516	3,0
Textiles, clothing, leather and footwear	4 273	4 312	4 334	4 329	4 237	-2,1
Textiles	580	603	611	581	594	2,2
Other textile products	1 214	1 189	1 169	1 245	1 182	-5,1
Knitted, crocheted articles	202	213	211	206	208	1,0
Wearing apparel	1 244	1 243	1 285	1 288	1 264	-1,9
Leather and leather products	608	631	643	586	607	3,6
Footwear	425	433	414	423	382	-9,7
Wood and wood products, paper, publishing and printing	12 030	12 147	12 312	12 148	12 318	1,4
Sawmilling and planing of wood	945	830	1 036	939	852	-9,3
Products of wood	1 615	1 631	1 668	1 620	1 603	-1,0
Paper and paper products	5 502	5 815	5 741	5 702	5 650	-0,9
Publishing	1 590	1 648	1 631	1 648	1 689	2,5
Printing, recorded media	2 378	2 223	2 235	2 238	2 524	12,8
Petroleum, chemical products, rubber and plastic products	35 260	35 237	37 079	37 170	34 817	-6,3
Coke, petroleum products and nuclear fuel	12 559	11 943	13 464	14 202	12 410	-12,6
Basic chemicals	7 293	7 438	7 617	7 196	6 519	-9,4
Other chemical products	8 835	9 194	9 278	8 957	8 976	0,2
Rubber products	1 412	1 432	1 400	1 433	1 400	-2,3
Plastic products	5 161	5 229	5 320	5 381	5 513	2,5
Glass and non-metallic mineral products	4 617	4 678	4 619	4 599	4 676	1,7
Glass and glass products	775	793	766	798	813	1,9
Non-metallic mineral products	3 842	3 885	3 853	3 801	3 864	1,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	32 356	31 435	32 569	31 776	31 281	-1,6
Basic iron and steel products	9 007	8 637	9 155	8 921	8 437	-5,4
Non-ferrous metal products	7 174	6 804	6 804	7 445	7 061	-5,2
Structural metal products	2 928	2 868	2 921	2 664	2 661	-0,1
Other fabricated metal products	5 245	5 240	5 386	5 270	5 236	-0,6
General purpose machinery	2 800	2 809	2 735	2 596	2 675	3,0
Special purpose machinery	4 328	4 205	4 667	3 991	4 301	7,8
Household appliances	874	872	901	889	910	2,4
Electrical machinery	5 203	4 872	5 129	4 654	5 115	9,9
Radio, television and communication apparatus and professional equipment	1 666	1 691	1 759	1 807	1 903	5,3
Radio, television and communication apparatus	992	1 020	1 096	1 074	1 176	9,5
Professional equipment	674	671	663	734	727	-1,0
Motor vehicles, parts and accessories and other transport equipment	20 620	20 419	20 661	21 358	20 754	-2,8
Motor vehicles	10 801	11 065	10 755	11 916	11 357	-4,7
Bodies for motor vehicles, trailers and semi-trailers	778	815	783	767	740	-3,5
Parts and accessories	6 612	6 107	5 985	6 162	6 105	-0,9
Other transport equipment	2 429	2 433	3 139	2 513	2 552	1,6
Furniture and other manufacturing	4 741	4 789	4 909	5 255	4 990	-5,0
Furniture	1 171	1 144	1 204	1 184	1 179	-0,4
Other manufacturing groups	3 570	3 645	3 705	4 071	3 811	-6,4
Total	156 302	155 788	159 337	159 210	156 611	-1,6

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 <i>Standard Industrial Classification of all Economic Activities (SIC)</i>, 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 (ISIC)</i> 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 November 2015 was 83,1%. The improved collection rate for October 2015 was 91,9%.
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 the following publications available from Stats SA -
- *Bulletin of Statistics* issued quarterly; and
 - *SA Statistics* issued annually.
- 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 3 027 enterprises from a population of 45 285 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 2015 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	1 882 214	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 2010. 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 2015	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		
	2010	2011	2012 – 2015
Food and beverages	22,08	23,82	24,44
Meat, fish, fruit, etc.	4,41	5,19	5,39
Dairy products	2,22	2,30	1,78
Grain mill products	2,71	2,78	2,86
Other food products	6,34	7,12	7,73
Beverages	6,40	6,43	6,68
Textiles, clothing, leather and footwear	3,45	2,92	3,17
Textiles	0,68	0,84	0,74
Other textile products	0,43	0,39	0,47
Knitted, crocheted articles	0,08	0,08	0,10
Wearing apparel	1,55	0,99	1,19
Leather and leather products	0,22	0,19	0,28
Footwear	0,49	0,43	0,39
Wood and wood products, paper, publishing and printing	9,30	9,46	12,65
Sawmilling and planing of wood	0,82	0,82	1,83
Products of wood	1,66	1,76	2,55
Paper and paper products	3,18	3,26	4,89
Publishing	1,45	1,45	1,51
Printing, recorded media	2,19	2,17	1,87
Petroleum, chemical products, rubber and plastic products	25,13	22,52	22,13
Coke, petroleum products and nuclear fuel	7,97	6,32	7,77
Basic chemicals	5,81	4,85	3,81
Other chemical products	7,39	7,06	6,49
Rubber products	1,19	1,18	1,00
Plastic products	2,77	3,11	3,06
Glass and non-metallic mineral products	4,91	4,42	3,91
Glass and glass products	0,80	0,89	0,78
Non-metallic mineral products	4,11	3,53	3,13
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,30	20,40	19,59
Basic iron and steel products	4,42	4,71	3,38
Non-ferrous metal products (including precious metals)	3,44	3,46	3,18
Structural metal products	1,87	2,21	1,89
Other fabricated metal products	3,84	3,89	4,40
General purpose machinery	2,36	2,44	2,44
Special purpose machinery	3,48	3,04	3,44
Household appliances	0,89	0,65	0,86
Electrical machinery	2,44	2,37	1,70
Radio, television and communication apparatus and professional equipment	1,32	1,45	1,41
Radio, television and communication apparatus	0,77	0,88	0,90
Professional equipment	0,55	0,57	0,51
Motor vehicles, parts and accessories and other transport equipment	7,89	8,58	7,39
Motor vehicles	3,21	3,84	2,98
Bodies for motor vehicles, trailers and semi-trailers	0,64	0,53	0,43
Parts and accessories	2,88	3,00	2,77
Other transport equipment	1,16	1,21	1,21
Furniture and other manufacturing	3,18	4,06	3,61
Furniture	0,94	1,05	1,08
Other manufacturing groups	2,24	3,01	2,53
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 January 2015](#)
- 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 <i>System of National Accounts (SNA)</i> in the same way as in the <i>1993 Standard Industrial Classification of all Economic Activities</i> , 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
	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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