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Statistical release

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Manufacturing: Production and sales (Preliminary)

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Enquiries:

Nicolai Claassen
Tel. (012) 310 8007

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Production: results for March 2016

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

	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Year-on-year % change, unadjusted	-2,3	-1,2	0,5	-2,5	2,2	-2,0
Month-on-month % change, seasonally adjusted	-1,8	-1,3	2,1	-1,8	1,6	-0,3
3-month % change, seasonally adjusted ¹	1,5	0,8	-0,5	-1,0	-0,1	0,1

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

Manufacturing production decreased by 2,0% in March 2016 compared with March 2015. This decrease was mainly due to lower production in the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (-7,4% and contributing -1,5 percentage points);
- furniture and ‘other’ manufacturing (-21,9% and contributing -0,6 of a percentage point);
- motor vehicles, parts and accessories and other transport equipment (-6,7% and contributing -0,6 of a percentage point); and
- food and beverages (-1,5% and contributing -0,4 of a percentage point).

Significant positive contributions were made by the wood and wood products, paper, publishing and printing division (6,2% and contributing 0,7 of a percentage point) and the petroleum, chemical products, rubber and plastic products division (2,7% and contributing 0,6 of a percentage point) – see Tables 5 and 6.

Seasonally adjusted manufacturing production decreased by 0,3% in March 2016 compared with February 2016. This followed month-on-month changes of 1,6% in February 2016 and -1,8% in January 2016 – see Table A.

Seasonally adjusted manufacturing production increased by 0,1% in the first quarter of 2016 compared with the fourth quarter of 2015. Four of the ten manufacturing divisions reported positive growth rates over this period.

The main positive contributors to the 0,1% increase were the wood and wood products, paper, publishing and printing division (5,1% and contributing 0,6 of a percentage point) and the basic iron and steel, non-ferrous metal products, metal products and machinery division (2,3% and contributing 0,4 of a percentage point). The food and beverages division decreased by 3,1% and contributed -0,8 of a percentage point.

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)	Oct – Dec 2015	Jan – Mar 2016	% change between Oct – Dec 2015 and Jan – Mar 2016	Contribution (% points) to the total % change
Food and beverages	24,44	114,5	111,0	-3,1	-0,8
Meat, fish, fruit, etc.	5,39	123,0	116,3	-5,4	-0,3
Dairy products	1,78	119,7	116,7	-2,5	-0,1
Grain mill products	2,86	104,9	107,2	2,2	0,1
Other food products	7,73	107,1	105,5	-1,5	-0,1
Beverages	6,68	119,0	113,2	-4,9	-0,4
Textiles, clothing, leather and footwear	3,17	95,0	93,5	-1,6	0,0
Textiles	0,74	83,7	87,5	4,5	0,0
Other textile products	0,47	89,5	90,3	0,9	0,0
Knitted, crocheted articles	0,10	52,2	54,2	3,8	0,0
Wearing apparel	1,19	100,3	94,4	-5,9	-0,1
Leather and leather products	0,28	116,0	114,4	-1,4	0,0
Footwear	0,39	102,7	100,3	-2,3	0,0
Wood and wood products, paper, publishing and printing	12,65	103,7	109,0	5,1	0,6
Sawmilling and planing of wood	1,83	125,3	129,2	3,1	0,1
Products of wood	2,55	102,7	111,1	8,2	0,2
Paper and paper products	4,89	104,3	111,6	7,0	0,3
Publishing	1,51	93,3	91,9	-1,5	0,0
Printing, recorded media	1,87	90,6	93,1	2,8	0,0
Petroleum, chemical products, rubber and plastic products	22,13	111,3	111,1	-0,2	0,0
Coke, petroleum products and nuclear fuel	7,77	106,5	105,8	-0,7	-0,1
Basic chemicals	3,81	114,3	115,6	1,1	0,0
Other chemical products	6,49	119,2	120,2	0,8	0,1
Rubber products	1,00	106,5	96,8	-9,1	-0,1
Plastic products	3,06	104,2	104,1	-0,1	0,0
Glass and non-metallic mineral products	3,91	95,4	95,8	0,4	0,0
Glass and glass products	0,78	93,0	94,8	1,9	0,0
Non-metallic mineral products	3,13	96,0	96,1	0,1	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	96,6	98,8	2,3	0,4
Basic iron and steel products	3,38	84,1	89,4	6,3	0,2
Non-ferrous metal products	3,18	91,8	96,5	5,1	0,1
Structural metal products	1,89	77,9	79,0	1,4	0,0
Other fabricated metal products	4,40	116,3	122,2	5,1	0,2
General purpose machinery	2,44	78,4	77,8	-0,8	0,0
Special purpose machinery	3,44	108,8	106,8	-1,8	-0,1
Household appliances	0,86	106,2	97,3	-8,4	-0,1
Electrical machinery	1,70	113,6	111,7	-1,7	0,0
Radio, television and communication apparatus and professional equipment	1,41	147,1	139,2	-5,4	-0,1
Radio, television and communication	0,90	168,8	155,4	-7,9	-0,1
Professional equipment	0,51	108,3	110,3	1,8	0,0
Motor vehicles, parts and accessories and other transport equipment	7,39	106,3	109,2	2,7	0,2
Motor vehicles	2,98	119,7	127,3	6,3	0,2
Bodies for motor vehicles, trailers and semi-	0,43	110,8	111,9	1,0	0,0
Parts and accessories	2,77	92,7	93,5	0,9	0,0
Other transport equipment	1,21	102,5	99,7	-2,7	0,0
Furniture and other manufacturing	3,61	87,5	83,7	-4,3	-0,1
Furniture	1,08	106,0	97,0	-8,5	-0,1
Other manufacturing groups	2,53	79,6	78,0	-2,0	0,0
Total	100	106,4	106,5	0,1	0,1

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

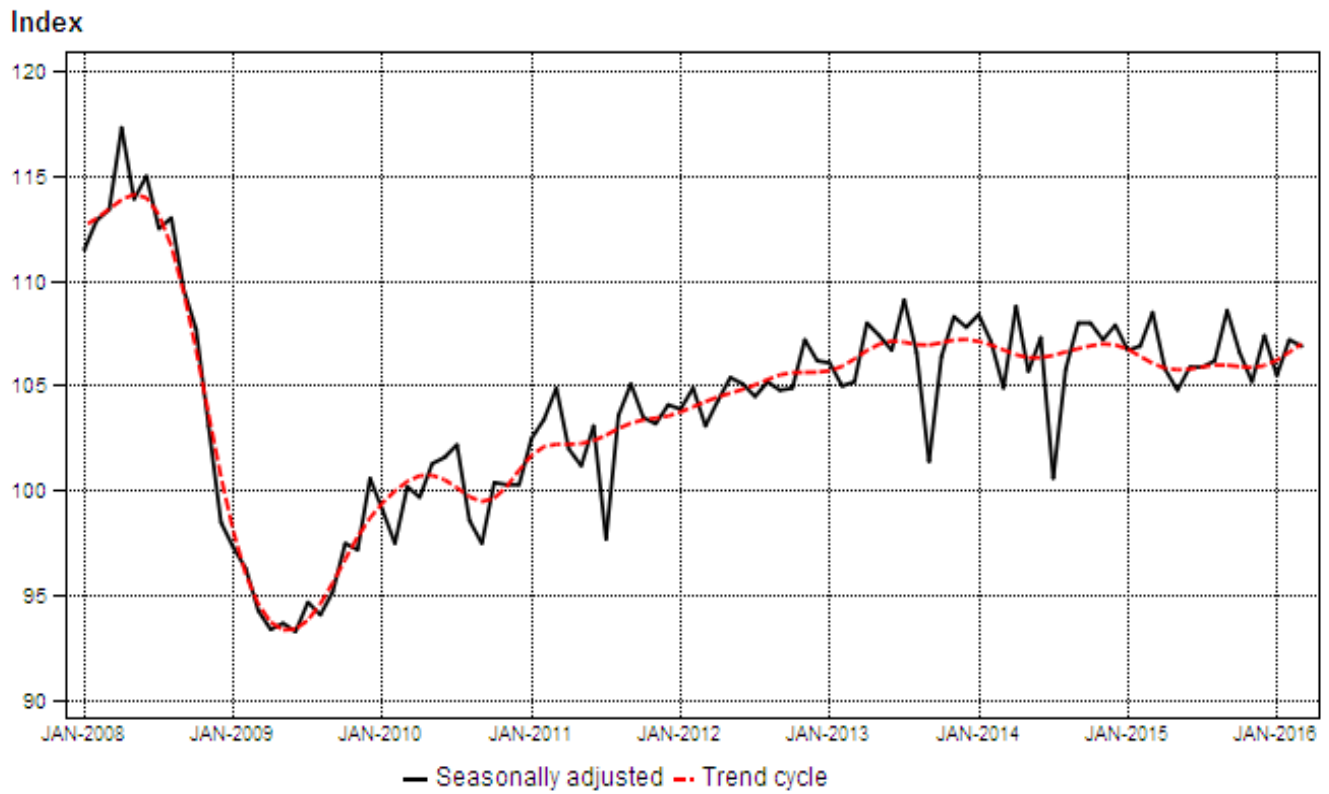
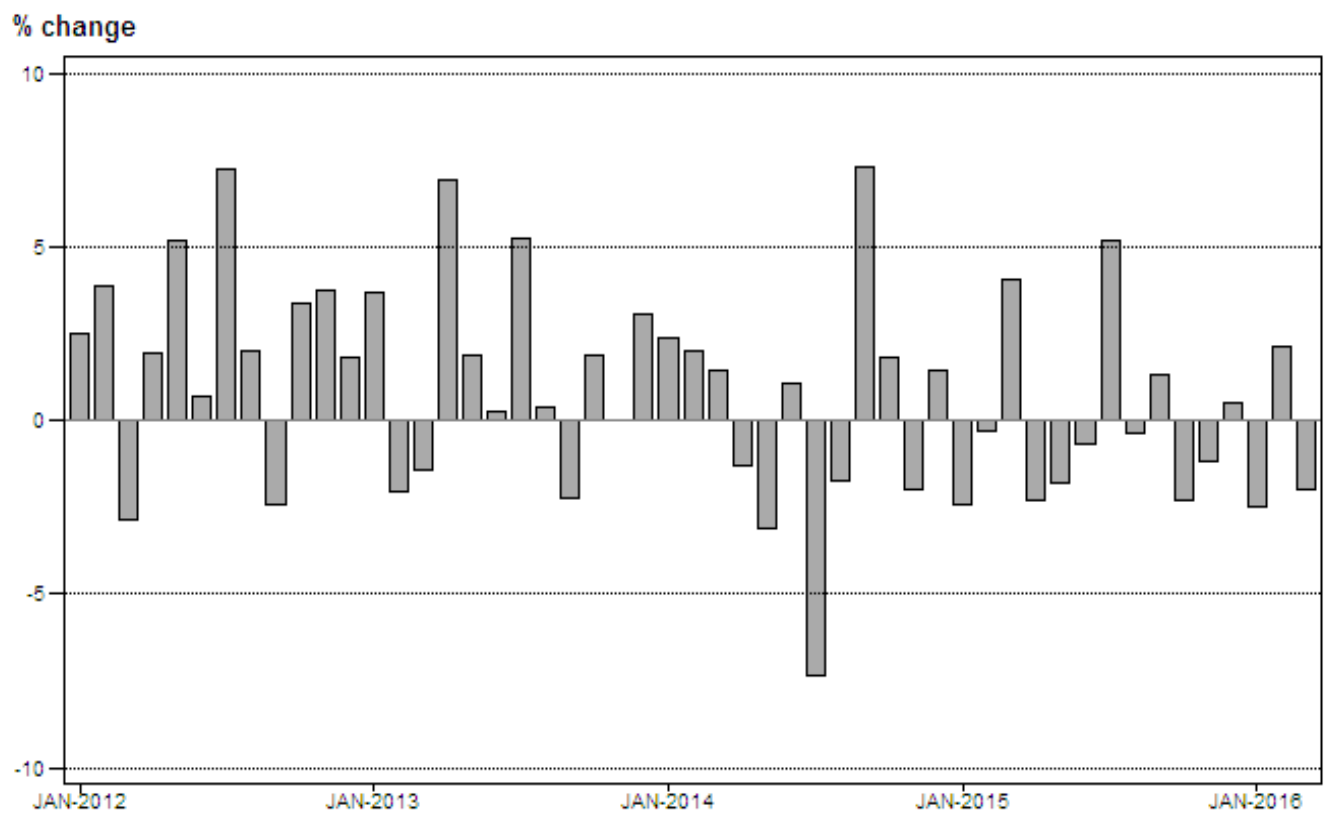


Figure 2 – Volume of manufacturing production (Base: 2010=100): year-on-year percentage change



Sales: results for March 2016

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

	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Year-on-year % change, unadjusted	-1,5	1,8	1,8	2,8	8,1	1,5
Month-on-month % change, seasonally adjusted	0,0	-1,5	-0,2	1,0	1,0	0,6
3-month % change, seasonally adjusted ¹	1,4	1,6	0,3	-0,5	-0,2	1,2

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

Seasonally adjusted manufacturing sales increased by 0,6% in March 2016 compared with February 2016. This followed month-on-month changes of 1,0% in February 2016 and 1,0% in January 2016 – see Table C.

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

Manufacturing division	Oct – Dec 2015 (R million)	Jan – Mar 2016 (R million)	% change between Oct – Dec 2015 and Jan – Mar 2016	Contribution (% points) to the total % change
Food and beverages	109 686	111 273	1,4	0,3
Textiles, clothing, leather and footwear	12 835	12 948	0,9	0,0
Wood and wood products, paper, publishing and printing	36 496	37 831	3,7	0,3
Petroleum, chemical products, rubber and plastic products	107 504	106 924	-0,5	-0,1
Glass and non-metallic mineral products	13 723	13 781	0,4	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	94 810	98 088	3,5	0,7
Electrical machinery	14 939	15 271	2,2	0,1
Radio, television and communication apparatus and professional equipment	5 642	5 362	-5,0	-0,1
Motor vehicles, parts and accessories and other transport equipment	60 909	62 076	1,9	0,2
Furniture and other manufacturing	15 465	14 176	-8,3	-0,3
Total	472 013	477 730	1,2	1,2

**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	92,2	94,4	92,1	89,8
Feb	92,2	98,4	102,2	100,1	102,1	101,8	104,0
Mar	103,8	109,3	106,2	104,7	106,2	110,5	108,3
Apr	93,4	93,4	95,2	101,8	100,5	98,2	
May	100,6	101,6	106,9	108,9	105,5	103,6	
Jun	102,9	104,2	104,9	105,2	106,3	105,6	
Jul	105,3	98,9	106,1	111,7	103,5	108,9	
Aug	101,6	107,8	110,0	110,4	108,5	108,1	
Sep	102,2	110,4	107,7	105,3	113,0	114,5	
Oct	110,3	112,9	116,7	118,9	121,1	118,3	
Nov	112,2	116,6	121,0	121,0	118,6	117,2	
Dec	91,0	93,5	95,2	98,1	99,5	100,0	
Total	100,0	102,8	105,1	106,5	106,6	106,6	

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

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	106,1	108,4	106,7	105,5	-0,1	0,6	-1,1	-1,8
Feb	105,0	107,1	106,9	107,2	-1,0	-1,2	0,2	1,6
Mar	105,2	104,9	108,5	106,9	0,2	-2,1	1,5	-0,3
Apr	108,0	108,8	105,8		2,7	3,7	-2,5	
May	107,4	105,7	104,8		-0,6	-2,8	-0,9	
Jun	106,7	107,3	105,9		-0,7	1,5	1,0	
Jul	109,1	100,6	105,9		2,2	-6,2	0,0	
Aug	106,6	105,8	106,2		-2,3	5,2	0,3	
Sep	101,4	108,0	108,6		-4,9	2,1	2,3	
Oct	106,4	108,0	106,6		4,9	0,0	-1,8	
Nov	108,3	107,2	105,2		1,8	-0,7	-1,3	
Dec	107,8	107,9	107,4		-0,5	0,7	2,1	

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

Manufacturing division and major group	Weight (2012)	Oct-15	Nov-15	Dec-15	¹ Jan-16	¹ Feb-16	¹ Mar-16
Food and beverages	24,44	126,3	120,2	131,5	93,3	104,6	108,8
Meat, fish, fruit, etc.	5,39	126,9	132,4	134,2	98,1	104,9	123,0
Dairy products	1,78	134,6	123,5	135,6	112,0	115,5	123,0
Grain mill products	2,86	105,1	109,9	109,1	96,8	99,9	108,4
Other food products	7,73	124,9	100,6	106,0	76,7	96,0	89,4
Beverages	6,68	134,2	136,7	167,2	102,0	113,4	116,3
Textiles, clothing, leather and footwear	3,17	112,6	112,8	73,1	69,3	97,6	94,5
Textiles	0,74	91,2	95,4	56,0	67,6	95,6	95,6
Other textile products	0,47	110,9	103,7	64,3	69,9	96,6	89,5
Knitted, crocheted articles	0,10	62,9	60,5	33,3	42,7	56,7	56,6
Wearing apparel	1,19	121,2	125,4	83,4	62,4	99,1	91,1
Leather and leather products	0,28	126,4	124,9	106,4	107,4	118,2	114,6
Footwear	0,39	131,3	122,2	71,0	72,1	93,0	103,5
Wood and wood products, paper, publishing and printing	12,65	113,6	117,9	95,3	91,8	103,8	112,1
Sawmilling and planing of wood	1,83	137,0	130,3	105,9	107,2	136,2	138,7
Products of wood	2,55	116,9	116,5	80,2	86,5	108,6	119,0
Paper and paper products	4,89	108,2	113,4	105,0	101,4	99,0	113,3
Publishing	1,51	108,1	113,9	97,5	74,9	86,5	89,0
Printing, recorded media	1,87	104,7	122,8	78,5	72,3	91,8	92,2
Petroleum, chemical products, rubber and plastic products	22,13	123,3	120,9	107,0	102,9	107,5	113,5
Coke, petroleum products and nuclear fuel	7,77	114,6	109,9	109,6	107,3	97,2	112,1
Basic chemicals	3,81	129,9	128,6	111,7	107,6	110,0	116,2
Other chemical products	6,49	131,6	128,9	116,4	103,6	120,0	122,3
Rubber products	1,00	120,5	113,5	69,8	90,7	100,4	104,4
Plastic products	3,06	120,4	124,9	86,8	88,2	106,5	97,9
Glass and non-metallic mineral products	3,91	111,6	111,2	72,1	76,9	89,2	92,8
Glass and glass products	0,78	109,5	112,2	88,0	83,1	86,2	86,9
Non-metallic mineral products	3,13	112,1	111,0	68,1	75,3	89,9	94,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	104,4	104,4	82,0	81,1	100,0	105,8
Basic iron and steel products	3,38	81,3	80,5	80,2	85,4	92,3	94,7
Non-ferrous metal products	3,18	98,0	92,0	81,8	89,8	97,7	98,8
Structural metal products	1,89	90,0	87,0	62,5	64,9	83,6	79,1
Other fabricated metal products	4,40	131,4	132,8	83,9	93,4	125,1	128,0
General purpose machinery	2,44	88,7	89,2	68,5	59,4	72,3	79,2
Special purpose machinery	3,44	114,9	120,0	101,4	76,4	106,5	129,9
Household appliances	0,86	114,6	118,7	82,8	84,9	100,3	99,8
Electrical machinery	1,70	116,2	129,5	91,6	85,7	109,1	124,9
Radio, television and communication apparatus and professional equipment	1,41	162,4	178,9	142,2	112,8	138,9	135,7
Radio, television and communication apparatus	0,90	186,9	213,9	165,3	128,0	155,4	142,8
Professional equipment	0,51	118,8	116,5	101,1	85,8	109,5	123,0
Motor vehicles, parts and accessories and other transport equipment	7,39	124,0	126,3	64,7	84,3	108,6	115,1
Motor vehicles	2,98	147,4	153,2	56,5	88,5	123,0	136,1
Bodies for motor vehicles, trailers and semi-trailers	0,43	135,3	137,9	66,8	85,4	112,5	96,8
Parts and accessories	2,77	102,6	105,9	51,9	81,4	100,2	96,1
Other transport equipment	1,21	111,2	102,5	113,1	80,1	91,0	113,1
Furniture and other manufacturing	3,61	109,4	104,3	70,4	61,2	96,0	70,2
Furniture	1,08	137,9	140,2	90,0	63,1	89,7	82,8
Other manufacturing groups	2,53	97,2	88,9	62,0	60,4	98,7	64,8
Total	100	118,3	117,2	100,0	89,8	104,0	108,3

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	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Food and beverages	3,7	1,8	4,2	-2,2	3,1	-1,5
Meat, fish, fruit, etc.	5,5	9,3	3,8	0,1	-2,1	-4,1
Dairy products	8,5	5,6	8,1	-5,6	17,5	11,0
Grain mill products	-3,6	2,0	5,5	2,3	7,3	-0,5
Other food products	6,4	-10,3	1,0	5,2	4,6	-5,1
Beverages	1,0	7,3	5,8	-10,3	0,6	0,5
Textiles, clothing, leather and footwear	-4,8	-4,0	-4,1	-2,4	-1,5	-9,7
Textiles	-5,5	-1,3	0,0	5,8	3,6	-1,8
Other textile products	-3,6	-8,0	-14,4	-11,7	-2,3	-5,7
Knitted, crocheted articles	2,1	-9,8	-8,8	7,3	7,4	-6,0
Wearing apparel	-3,9	-2,6	-2,6	-5,2	1,0	-17,6
Leather and leather products	-2,8	-8,2	-8,5	0,0	-8,0	-11,4
Footwear	-9,4	-3,9	3,0	-0,1	-12,3	-1,1
Wood and wood products, paper, publishing and printing	-4,1	-2,1	-2,2	4,9	6,9	6,2
Sawmilling and planing of wood	2,8	3,9	14,5	-1,6	5,4	2,7
Products of wood	-3,8	-1,9	9,6	5,5	12,5	9,2
Paper and paper products	-1,4	-1,7	-5,1	13,5	6,8	11,1
Publishing	-13,5	-8,9	-12,3	-2,7	-0,9	-5,3
Printing, recorded media	-10,4	-3,2	-12,1	-6,8	7,1	1,5
Petroleum, chemical products, rubber and plastic products	1,7	-0,7	2,6	0,3	5,1	2,7
Coke, petroleum products and nuclear fuel	9,8	1,1	-2,8	-4,1	1,1	12,6
Basic chemicals	-1,7	-6,3	-0,5	6,0	13,2	-1,4
Other chemical products	-2,9	0,2	11,4	0,9	4,1	1,0
Rubber products	0,1	-4,6	3,9	0,1	-1,8	-9,5
Plastic products	0,2	2,3	3,2	5,1	10,0	-6,8
Glass and non-metallic mineral products	-4,6	2,3	-1,1	2,3	-3,6	-4,5
Glass and glass products	0,7	7,4	0,9	4,8	-1,5	4,2
Non-metallic mineral products	-5,9	1,1	-1,7	1,5	-4,1	-6,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	-9,8	-7,1	-6,1	-9,3	-2,9	-7,4
Basic iron and steel products	-18,8	-17,9	-7,2	-19,1	-5,7	-6,7
Non-ferrous metal products	-11,2	-8,6	-9,1	-4,7	4,8	-3,8
Structural metal products	-7,4	-6,5	0,5	6,4	-3,7	-12,5
Other fabricated metal products	-6,2	-2,7	-7,6	-2,2	1,3	-4,3
General purpose machinery	-14,4	-6,8	-12,3	-11,5	-12,8	-7,3
Special purpose machinery	-4,8	-3,1	-1,4	-11,7	-4,5	-8,8
Household appliances	-11,1	-11,3	1,0	-26,2	-12,2	-23,2
Electrical machinery	2,1	13,3	12,0	8,6	8,7	8,1
Radio, television and communication apparatus and professional equipment	-5,4	1,8	12,7	39,1	18,1	4,9
Radio, television and communication apparatus	-9,1	1,1	14,6	49,9	24,2	10,3
Professional equipment	6,6	4,2	7,8	17,1	5,2	-4,9
Motor vehicles, parts and accessories and other transport equipment	-6,5	4,0	-5,8	-11,6	-3,0	-6,7
Motor vehicles	-12,6	-0,2	-18,4	-25,6	-10,3	-6,0
Bodies for motor vehicles, trailers and semi-trailers	-4,1	11,2	2,6	7,8	-0,9	-24,7
Parts and accessories	-0,1	7,7	-1,7	0,5	8,2	-5,2
Other transport equipment	1,9	7,7	7,7	4,8	-3,3	-5,2
Furniture and other manufacturing	-10,3	-10,2	-3,8	-19,0	-0,6	-21,9
Furniture	-3,8	0,8	-3,9	-12,7	-12,9	-17,4
Other manufacturing groups	-13,8	-16,4	-3,7	-21,7	5,0	-24,2
Total	-2,3	-1,2	0,5	-2,5	2,2	-2,0

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

Manufacturing division and major group	Weight (2012)	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Food and beverages	24,44	0,9	0,4	1,3	-0,6	0,7	-0,4
Meat, fish, fruit, etc.	5,39	0,3	0,5	0,3	0,0	-0,1	-0,3
Dairy products	1,78	0,2	0,1	0,2	-0,1	0,3	0,2
Grain mill products	2,86	-0,1	0,1	0,2	0,1	0,2	0,0
Other food products	7,73	0,5	-0,8	0,1	0,3	0,3	-0,3
Beverages	6,68	0,1	0,5	0,6	-0,8	0,0	0,0
Textiles, clothing, leather and footwear	3,17	-0,1	-0,1	-0,1	-0,1	0,0	-0,3
Textiles	0,74	0,0	0,0	0,0	0,0	0,0	0,0
Other textile products	0,47	0,0	0,0	-0,1	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	-0,2
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	0,0	0,0	0,0	0,0
Wood and wood products, paper, publishing and printing	12,65	-0,5	-0,3	-0,3	0,6	0,8	0,7
Sawmilling and planing of wood	1,83	0,1	0,1	0,2	0,0	0,1	0,1
Products of wood	2,55	-0,1	0,0	0,2	0,1	0,3	0,2
Paper and paper products	4,89	-0,1	-0,1	-0,3	0,6	0,3	0,5
Publishing	1,51	-0,2	-0,1	-0,2	0,0	0,0	-0,1
Printing, recorded media	1,87	-0,2	-0,1	-0,2	-0,1	0,1	0,0
Petroleum, chemical products, rubber and plastic products	22,13	0,4	-0,2	0,6	0,1	1,1	0,6
Coke, petroleum products and nuclear fuel	7,77	0,7	0,1	-0,2	-0,4	0,1	0,9
Basic chemicals	3,81	-0,1	-0,3	0,0	0,3	0,5	-0,1
Other chemical products	6,49	-0,2	0,0	0,8	0,1	0,3	0,1
Rubber products	1,00	0,0	0,0	0,0	0,0	0,0	-0,1
Plastic products	3,06	0,0	0,1	0,1	0,1	0,3	-0,2
Glass and non-metallic mineral products	3,91	-0,2	0,1	0,0	0,1	-0,1	-0,2
Glass and glass products	0,78	0,0	0,1	0,0	0,0	0,0	0,0
Non-metallic mineral products	3,13	-0,2	0,0	0,0	0,0	-0,1	-0,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	-1,8	-1,3	-1,0	-1,8	-0,6	-1,5
Basic iron and steel products	3,38	-0,5	-0,5	-0,2	-0,7	-0,2	-0,2
Non-ferrous metal products	3,18	-0,3	-0,2	-0,3	-0,2	0,1	-0,1
Structural metal products	1,89	-0,1	-0,1	0,0	0,1	-0,1	-0,2
Other fabricated metal products	4,40	-0,3	-0,1	-0,3	-0,1	0,1	-0,2
General purpose machinery	2,44	-0,3	-0,1	-0,2	-0,2	-0,3	-0,1
Special purpose machinery	3,44	-0,2	-0,1	0,0	-0,4	-0,2	-0,4
Household appliances	0,86	-0,1	-0,1	0,0	-0,3	-0,1	-0,2
Electrical machinery	1,70	0,0	0,2	0,2	0,1	0,1	0,1
Radio, television and communication apparatus and professional equipment	1,41	-0,1	0,0	0,2	0,5	0,3	0,1
Radio, television and communication apparatus	0,90	-0,1	0,0	0,2	0,4	0,3	0,1
Professional equipment	0,51	0,0	0,0	0,0	0,1	0,0	0,0
Motor vehicles, parts and accessories and other transport equipment	7,39	-0,5	0,3	-0,3	-0,9	-0,2	-0,6
Motor vehicles	2,98	-0,5	0,0	-0,4	-1,0	-0,4	-0,2
Bodies for motor vehicles, trailers and semi-trailers	0,43	0,0	0,1	0,0	0,0	0,0	-0,1
Parts and accessories	2,77	0,0	0,2	0,0	0,0	0,2	-0,1
Other transport equipment	1,21	0,0	0,1	0,1	0,0	0,0	-0,1
Furniture and other manufacturing	3,61	-0,4	-0,4	-0,1	-0,6	0,0	-0,6
Furniture	1,08	0,0	0,0	0,0	-0,1	-0,1	-0,2
Other manufacturing groups	2,53	-0,3	-0,4	-0,1	-0,5	0,1	-0,5
Total	100	-2,3	-1,2	0,5	-2,5	2,2	-2,0

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)	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Month-on-month % change
Food and beverages	24,44	110,3	116,9	110,8	112,7	109,5	-2,8
Meat, fish, fruit, etc.	5,39	122,9	122,6	119,5	112,1	117,4	4,7
Dairy products	1,78	117,5	121,4	111,8	117,4	121,0	3,1
Grain mill products	2,86	103,4	108,1	106,5	108,1	106,9	-1,1
Other food products	7,73	96,0	113,3	106,6	112,1	97,9	-12,7
Beverages	6,68	117,9	118,9	110,3	114,6	114,7	0,1
Textiles, clothing, leather and footwear	3,17	94,9	94,1	94,4	93,9	92,2	-1,8
Textiles	0,74	86,0	82,7	86,9	84,9	90,8	6,9
Other textile products	0,47	87,0	86,1	91,0	89,5	90,4	1,0
Knitted, crocheted articles	0,10	51,6	50,0	55,9	54,0	52,7	-2,4
Wearing apparel	1,19	99,9	99,7	94,4	99,8	89,0	-10,8
Leather and leather products	0,28	112,6	118,5	119,4	113,7	110,2	-3,1
Footwear	0,39	103,6	101,9	104,2	93,5	103,2	10,4
Wood and wood products, paper, publishing and printing	12,65	103,6	104,6	107,3	108,3	111,4	2,9
Sawmilling and planing of wood	1,83	122,8	128,3	124,5	130,7	132,3	1,2
Products of wood	2,55	102,2	104,4	107,5	112,0	113,8	1,6
Paper and paper products	4,89	103,9	105,3	113,3	108,0	113,5	5,1
Publishing	1,51	92,2	94,9	90,9	92,2	92,7	0,5
Printing, recorded media	1,87	95,0	87,8	87,4	94,8	97,2	2,5
Petroleum, chemical products, rubber and plastic products	22,13	110,3	111,7	110,1	110,8	112,3	1,4
Coke, petroleum products and nuclear fuel	7,77	106,7	102,5	102,0	105,0	110,5	5,2
Basic chemicals	3,81	113,8	113,1	115,6	115,8	115,3	-0,4
Other chemical products	6,49	116,2	126,3	120,4	118,8	121,4	2,2
Rubber products	1,00	104,8	105,1	100,8	94,7	95,0	0,3
Plastic products	3,06	104,3	104,4	105,3	107,9	99,2	-8,1
Glass and non-metallic mineral products	3,91	97,9	90,5	97,5	94,8	95,1	0,3
Glass and glass products	0,78	94,8	92,5	95,9	92,2	96,4	4,6
Non-metallic mineral products	3,13	98,7	90,0	97,9	95,5	94,8	-0,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	95,9	98,6	97,5	100,5	98,5	-2,0
Basic iron and steel products	3,38	81,8	91,5	85,2	93,2	89,8	-3,6
Non-ferrous metal products	3,18	92,5	92,0	93,3	101,7	94,4	-7,2
Structural metal products	1,89	76,4	79,8	81,0	77,9	78,2	0,4
Other fabricated metal products	4,40	116,4	116,0	119,6	123,7	123,3	-0,3
General purpose machinery	2,44	79,0	77,5	77,1	76,7	79,7	3,9
Special purpose machinery	3,44	107,4	111,2	108,5	107,0	104,8	-2,1
Household appliances	0,86	103,9	112,5	99,6	97,3	94,9	-2,5
Electrical machinery	1,70	115,0	117,4	110,4	111,7	113,1	1,3
Radio, television and communication apparatus and professional equipment	1,41	146,4	154,5	143,2	137,4	137,1	-0,2
Radio, television and communication apparatus	0,90	168,2	180,6	160,9	152,6	152,8	0,1
Professional equipment	0,51	107,4	108,0	111,6	110,4	109,0	-1,3
Motor vehicles, parts and accessories and other transport equipment	7,39	109,5	102,5	105,0	107,2	115,4	7,6
Motor vehicles	2,98	127,6	111,8	115,8	123,7	142,5	15,2
Bodies for motor vehicles, trailers and semi-trailers	0,43	113,6	106,2	123,0	110,3	102,4	-7,2
Parts and accessories	2,77	93,9	90,1	93,9	93,2	93,4	0,2
Other transport equipment	1,21	99,3	106,8	97,6	97,7	103,7	6,1
Furniture and other manufacturing	3,61	84,1	90,0	80,2	91,6	79,3	-13,4
Furniture	1,08	105,1	106,6	99,6	97,9	93,6	-4,4
Other manufacturing groups	2,53	75,1	82,9	71,9	88,9	73,1	-17,8
Total	100	105,2	107,4	105,5	107,2	106,9	-0,3

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

Month	2010	2011	2012	2013	2014	2015	2016 ¹
Jan	90 215	95 994	107 218	116 532	130 303	129 333	133 005
Feb	101 983	111 651	125 750	131 788	146 300	143 332	154 994
Mar	115 516	126 331	133 374	137 740	151 487	161 661	164 100
Apr	101 853	108 005	117 453	133 321	143 553	142 263	
May	109 489	117 657	130 302	141 196	148 043	153 030	
Jun	113 772	122 233	130 849	139 275	155 933	157 801	
Jul	113 046	113 051	127 702	146 362	145 849	158 167	
Aug	110 779	125 128	134 503	143 958	156 037	156 112	
Sep	113 369	133 135	131 890	140 221	162 333	166 634	
Oct	121 878	133 901	144 549	156 327	175 379	172 704	
Nov	126 703	139 235	153 267	162 140	170 409	173 476	
Dec	104 635	117 662	123 569	140 451	148 058	150 789	
Total	1 323 238	1 443 983	1 560 426	1 689 311	1 833 684	1 865 302	

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	6,4	11,7	8,7	11,8	-0,7	2,8	2,8
Feb	9,5	12,6	4,8	11,0	-2,0	8,1	5,6
Mar	9,4	5,6	3,3	10,0	6,7	1,5	4,1
Apr	6,0	8,7	13,5	7,7	-0,9		
May	7,5	10,7	8,4	4,8	3,4		
Jun	7,4	7,0	6,4	12,0	1,2		
Jul	0,0	13,0	14,6	-0,4	8,4		
Aug	13,0	7,5	7,0	8,4	0,0		
Sep	17,4	-0,9	6,3	15,8	2,6		
Oct	9,9	8,0	8,1	12,2	-1,5		
Nov	9,9	10,1	5,8	5,1	1,8		
Dec	12,4	5,0	13,7	5,4	1,8		
Total	9,1	8,1	8,3	8,5	1,7		

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	135 421	150 780	151 773	157 899	1,4	1,1	-2,5	1,0
Feb	137 384	152 643	149 968	159 405	1,4	1,2	-1,2	1,0
Mar	136 998	147 162	155 943	160 426	-0,3	-3,6	4,0	0,6
Apr	138 643	153 335	151 845		1,2	4,2	-2,6	
May	140 435	148 902	155 435		1,3	-2,9	2,4	
Jun	139 174	154 890	155 357		-0,9	4,0	-0,1	
Jul	145 281	144 428	156 321		4,4	-6,8	0,6	
Aug	141 363	154 441	155 537		-2,7	6,9	-0,5	
Sep	135 793	155 646	158 967		-3,9	0,8	2,2	
Oct	142 609	160 083	158 984		5,0	2,9	0,0	
Nov	145 709	155 023	156 648		2,2	-3,2	-1,5	
Dec	149 084	155 659	156 381		2,3	0,4	-0,2	

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

Manufacturing division and major group	Oct-15	Nov-15	Dec-15	¹ Jan-16	¹ Feb-16	¹ Mar-16
Food and beverages	38 312	39 764	44 943	32 252	34 081	38 384
Meat, fish, fruit, etc.	10 369	10 965	11 802	8 448	9 034	10 940
Dairy products	3 654	3 461	3 721	3 089	3 256	3 549
Grain mill products	5 830	6 137	6 187	5 652	5 739	6 609
Other food products	7 489	7 626	7 465	6 705	6 411	6 415
Beverages	10 970	11 574	15 769	8 358	9 641	10 870
Textiles, clothing, leather and footwear	5 062	5 082	3 490	3 168	4 298	4 400
Textiles	657	692	428	482	679	719
Other textile products	1 469	1 345	856	912	1 237	1 174
Knitted, crocheted articles	229	231	136	148	210	227
Wearing apparel	1 531	1 612	1 153	768	1 157	1 229
Leather and leather products	625	628	509	519	632	599
Footwear	552	574	408	339	383	453
Wood and wood products, paper, publishing and printing	13 231	13 993	11 694	10 604	12 051	12 768
Sawmilling and planing of wood	1 041	904	878	745	947	988
Products of wood	1 836	1 915	1 312	1 367	1 667	1 724
Paper and paper products	5 761	6 141	5 778	5 360	5 453	6 184
Publishing	1 929	2 048	1 713	1 354	1 619	1 539
Printing, recorded media	2 664	2 985	2 012	1 778	2 365	2 333
Petroleum, chemical products, rubber and plastic products	40 201	38 616	33 997	31 905	33 235	34 583
Coke, petroleum products and nuclear fuel	13 811	12 300	12 245	11 267	9 416	10 989
Basic chemicals	8 485	7 844	6 555	6 901	7 475	7 128
Other chemical products	10 006	10 401	9 460	7 994	9 405	9 786
Rubber products	1 562	1 539	1 025	1 101	1 407	1 464
Plastic products	6 336	6 532	4 712	4 642	5 531	5 216
Glass and non-metallic mineral products	5 303	5 380	3 420	3 522	4 416	4 482
Glass and glass products	972	1 037	724	633	684	674
Non-metallic mineral products	4 331	4 343	2 696	2 889	3 733	3 808
Basic iron and steel, non-ferrous metal products, metal products and machinery	34 462	34 066	26 904	26 933	33 745	34 462
Basic iron and steel products	9 226	8 677	6 394	8 098	9 039	8 826
Non-ferrous metal products	7 932	7 620	7 324	6 977	8 194	8 044
Structural metal products	3 060	3 021	2 262	2 136	2 992	2 817
Other fabricated metal products	5 903	5 882	3 737	4 134	5 565	5 684
General purpose machinery	2 935	3 022	2 429	1 967	2 652	2 809
Special purpose machinery	4 393	4 807	4 045	2 895	4 362	5 315
Household appliances	1 012	1 036	713	726	941	967
Electrical machinery	4 938	5 813	4 078	3 721	5 154	6 014
Radio, television and communication apparatus and professional equipment	1 970	2 347	1 835	1 435	1 760	1 778
Radio, television and communication apparatus	1 189	1 573	1 166	874	1 001	981
Professional equipment	781	774	669	561	760	797
Motor vehicles, parts and accessories and other transport equipment	23 413	22 938	15 318	16 021	21 290	22 690
Motor vehicles	12 859	12 414	8 527	7 841	11 227	11 876
Bodies for motor vehicles, trailers and semi-trailers	898	990	496	572	803	724
Parts and accessories	6 864	6 878	3 359	5 496	6 841	7 059
Other transport equipment	2 792	2 655	2 936	2 112	2 420	3 031
Furniture and other manufacturing	5 812	5 477	5 109	3 443	4 964	4 539
Furniture	1 531	1 530	1 033	697	1 018	949
Other manufacturing groups	4 281	3 946	4 076	2 746	3 946	3 590
Total	172 704	173 476	150 789	133 005	154 994	164 100

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	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Food and beverages	6,8	12,7	12,1	8,1	11,1	11,6
Meat, fish, fruit, etc.	10,0	17,3	12,3	11,8	12,2	10,6
Dairy products	8,3	9,0	7,2	-0,8	19,5	9,8
Grain mill products	5,8	14,7	15,2	18,9	21,7	17,0
Other food products	4,8	2,9	9,5	17,1	1,9	8,8
Beverages	5,2	15,6	13,4	-3,9	8,3	11,9
Textiles, clothing, leather and footwear	1,6	3,0	-2,0	3,6	8,0	-0,9
Textiles	-4,6	5,8	6,7	7,6	15,1	9,9
Other textile products	3,9	0,6	-9,1	-1,3	6,3	-4,6
Knitted, crocheted articles	0,9	7,9	4,6	2,1	11,7	10,2
Wearing apparel	5,1	2,0	0,0	-1,8	7,5	-6,8
Leather and leather products	3,6	9,0	-7,6	5,3	3,3	2,7
Footwear	-7,1	0,0	5,7	27,9	9,7	0,9
Wood and wood products, paper, publishing and printing	2,2	3,5	3,6	11,7	10,7	6,5
Sawmilling and planing of wood	12,7	2,7	30,3	3,5	3,6	13,3
Products of wood	-0,5	4,8	12,8	9,9	13,6	1,7
Paper and paper products	6,3	7,1	3,7	21,9	10,6	9,5
Publishing	-4,2	-2,2	-4,0	4,8	7,2	-2,3
Printing, recorded media	-2,8	0,1	-3,7	-3,5	14,6	6,0
Petroleum, chemical products, rubber and plastic products	-8,0	-10,6	-5,5	1,2	5,4	-5,1
Coke, petroleum products and nuclear fuel	-14,3	-23,1	-19,8	-9,8	-16,4	-16,9
Basic chemicals	-14,9	-20,5	-11,2	5,3	24,9	-1,4
Other chemical products	3,9	7,5	20,6	11,5	16,4	5,5
Rubber products	-0,6	-1,5	3,5	4,1	5,2	-3,6
Plastic products	-1,0	7,2	4,9	8,9	14,0	0,2
Glass and non-metallic mineral products	-2,9	5,5	1,5	4,9	2,5	-3,5
Glass and glass products	6,7	11,5	8,2	5,9	-0,7	3,5
Non-metallic mineral products	-4,8	4,2	-0,1	4,7	3,1	-4,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	-5,7	-2,9	-5,8	-2,0	5,3	-6,0
Basic iron and steel products	-12,1	-8,9	-20,9	-15,0	-1,2	-20,0
Non-ferrous metal products	2,5	-4,1	6,1	13,7	18,5	8,9
Structural metal products	-5,4	-1,0	8,1	7,8	1,6	-12,3
Other fabricated metal products	-2,1	0,1	-5,2	3,5	8,5	-2,6
General purpose machinery	-14,0	-5,5	-10,8	-11,1	-5,3	-2,2
Special purpose machinery	-5,5	7,7	-4,3	-1,1	5,9	0,5
Household appliances	1,3	0,4	22,9	4,3	-3,7	-7,3
Electrical machinery	0,4	18,8	4,8	7,6	10,4	17,3
Radio, television and communication apparatus and professional equipment	-3,1	12,4	9,4	33,4	19,3	5,4
Radio, television and communication apparatus	-12,0	17,3	10,8	56,9	21,6	7,3
Professional equipment	14,7	3,5	6,7	8,1	16,6	3,1
Motor vehicles, parts and accessories and other transport equipment	0,1	9,2	3,6	-2,3	12,0	4,8
Motor vehicles	-0,9	7,8	9,8	-8,2	13,8	4,7
Bodies for motor vehicles, trailers and semi-trailers	-7,7	13,8	-8,3	8,7	1,6	-17,4
Parts and accessories	0,7	5,5	-13,5	0,7	13,2	9,5
Other transport equipment	6,3	26,4	12,9	12,8	4,6	1,5
Furniture and other manufacturing	5,1	3,4	4,8	-5,3	4,1	-1,7
Furniture	3,1	7,4	-1,9	-8,4	-6,1	-12,3
Other manufacturing groups	5,9	1,9	6,7	-4,5	7,1	1,5
Total	-1,5	1,8	1,8	2,8	8,1	1,5

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

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

Manufacturing division and major group	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Month-on-month % change
Food and beverages	36 495	37 140	37 053	36 422	37 798	3,8
Meat, fish, fruit, etc.	10 082	10 354	10 276	9 889	10 476	5,9
Dairy products	3 324	3 356	3 225	3 396	3 402	0,2
Grain mill products	5 943	6 108	6 187	6 297	6 404	1,7
Other food products	6 830	7 100	7 568	6 955	7 206	3,6
Beverages	10 315	10 223	9 797	9 886	10 309	4,3
Textiles, clothing, leather and footwear	4 250	4 258	4 380	4 271	4 297	0,6
Textiles	615	624	630	632	663	4,9
Other textile products	1 164	1 114	1 203	1 179	1 155	-2,0
Knitted, crocheted articles	204	196	205	200	209	4,5
Wearing apparel	1 263	1 281	1 203	1 228	1 221	-0,6
Leather and leather products	584	578	588	597	597	0,0
Footwear	421	463	551	435	452	3,9
Wood and wood products, paper, publishing and printing	12 154	12 267	12 590	12 455	12 786	2,7
Sawmilling and planing of wood	849	978	889	943	967	2,5
Products of wood	1 630	1 659	1 715	1 710	1 717	0,4
Paper and paper products	5 680	5 722	6 219	5 727	6 023	5,2
Publishing	1 667	1 683	1 622	1 657	1 628	-1,8
Printing, recorded media	2 328	2 226	2 145	2 419	2 451	1,3
Petroleum, chemical products, rubber and plastic products	34 864	35 604	35 766	36 027	35 131	-2,5
Coke, petroleum products and nuclear fuel	12 278	11 775	11 408	11 284	11 373	0,8
Basic chemicals	6 567	7 133	7 750	8 172	7 623	-6,7
Other chemical products	9 161	9 857	9 630	9 712	9 584	-1,3
Rubber products	1 377	1 340	1 340	1 322	1 302	-1,5
Plastic products	5 481	5 500	5 638	5 538	5 249	-5,2
Glass and non-metallic mineral products	4 657	4 485	4 686	4 563	4 532	-0,7
Glass and glass products	806	773	768	746	776	4,0
Non-metallic mineral products	3 851	3 713	3 919	3 817	3 756	-1,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	31 372	31 412	32 351	33 247	32 490	-2,3
Basic iron and steel products	8 414	8 180	8 526	8 845	8 482	-4,1
Non-ferrous metal products	7 135	7 574	7 761	8 236	7 890	-4,2
Structural metal products	2 678	2 833	2 768	2 755	2 731	-0,9
Other fabricated metal products	5 228	4 976	5 475	5 474	5 490	0,3
General purpose machinery	2 685	2 689	2 675	2 779	2 823	1,6
Special purpose machinery	4 319	4 227	4 238	4 258	4 210	-1,1
Household appliances	914	933	908	899	865	-3,8
Electrical machinery	5 164	5 144	4 974	4 994	5 303	6,2
Radio, television and communication apparatus and professional equipment	1 937	1 908	1 852	1 751	1 759	0,5
Radio, television and communication apparatus	1 228	1 194	1 119	971	1 015	4,5
Professional equipment	709	714	733	779	743	-4,6
Motor vehicles, parts and accessories and other transport equipment	20 743	18 950	19 557	20 887	21 632	3,6
Motor vehicles	11 171	10 383	9 997	11 001	11 194	1,8
Bodies for motor vehicles, trailers and semi-trailers	805	697	900	766	765	-0,1
Parts and accessories	6 195	5 041	6 123	6 523	6 940	6,4
Other transport equipment	2 572	2 830	2 537	2 597	2 732	5,2
Furniture and other manufacturing	5 011	5 211	4 689	4 788	4 699	-1,9
Furniture	1 158	1 163	1 111	1 086	1 068	-1,7
Other manufacturing groups	3 854	4 048	3 578	3 701	3 631	-1,9
Total	156 648	156 381	157 899	159 405	160 426	0,6

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 *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 March 2016 was 89,5%. The improved collection rate for February 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 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 *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

Technical enquiries

Nicolai Claassen Telephone number: (012) 310 8007
Email: nicolaic@statssa.gov.za

Gerda Bruwer Telephone number: (012) 310 8249
Email: gerdab@statssa.gov.za

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General enquiries

User information services	Telephone number: (012) 310 8600 Email address: info@statssa.gov.za
Orders/subscription services	Telephone number: (012) 310 8044 Email: magdaj@statssa.gov.za
Postal address	Private Bag X44, Pretoria, 0001

Produced by Stats SA