

Statistical release

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Manufacturing: Production and sales (Preliminary)

July 2016

The results published today are based on a new sample. This is an annual procedure which typically affects the level of sales. To avoid breaks in time series and to minimise revisions to historical growth rates, historical sales levels were revised (i.e. they were linked to the estimates based on the new sample).

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Production: results for July 2016

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

	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16
Year-on-year % change, unadjusted	2,3	-2,1	3,3	4,2	4,7	0,4
Month-on-month % change, seasonally adjusted	1,8	-0,6	0,7	1,4	0,7	-1,5
3-month % change, seasonally adjusted ¹	-0,2	0,3	1,2	1,1	2,1	1,7

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

Manufacturing production increased by 0,4% in July 2016 compared with July 2015. This was mainly due to higher production in the petroleum, chemical products, rubber and plastic products division (8,1% and contributing 1,8 percentage points).

The following divisions had the largest negative contributions in July 2016 compared with July 2015:

- basic iron and steel, non-ferrous metal products, metal products and machinery (-4,9% and contributing -0,9 of a percentage point);
- electrical machinery (-13,7% and contributing -0,3 of a percentage point);
- motor vehicles, parts and accessories and other transport equipment (-3,8% and contributing -0,3 of a percentage point); and
- food and beverages (-0,8% and contributing -0,2 of a percentage point) – see Tables 5 and 6.

Seasonally adjusted manufacturing production decreased by 1,5% in July 2016 compared with June 2016. This followed month-on-month changes of 0,7% in June 2016 and 1,4% in May 2016 – see Table A.

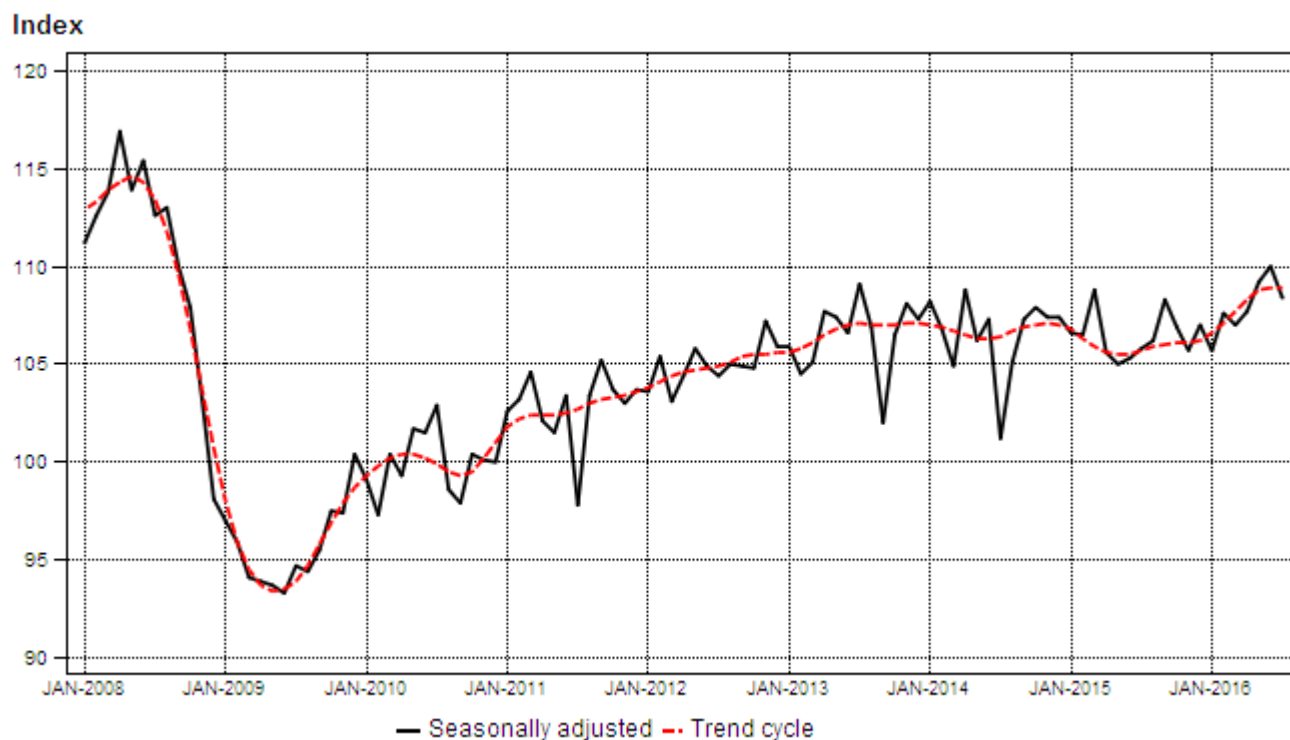
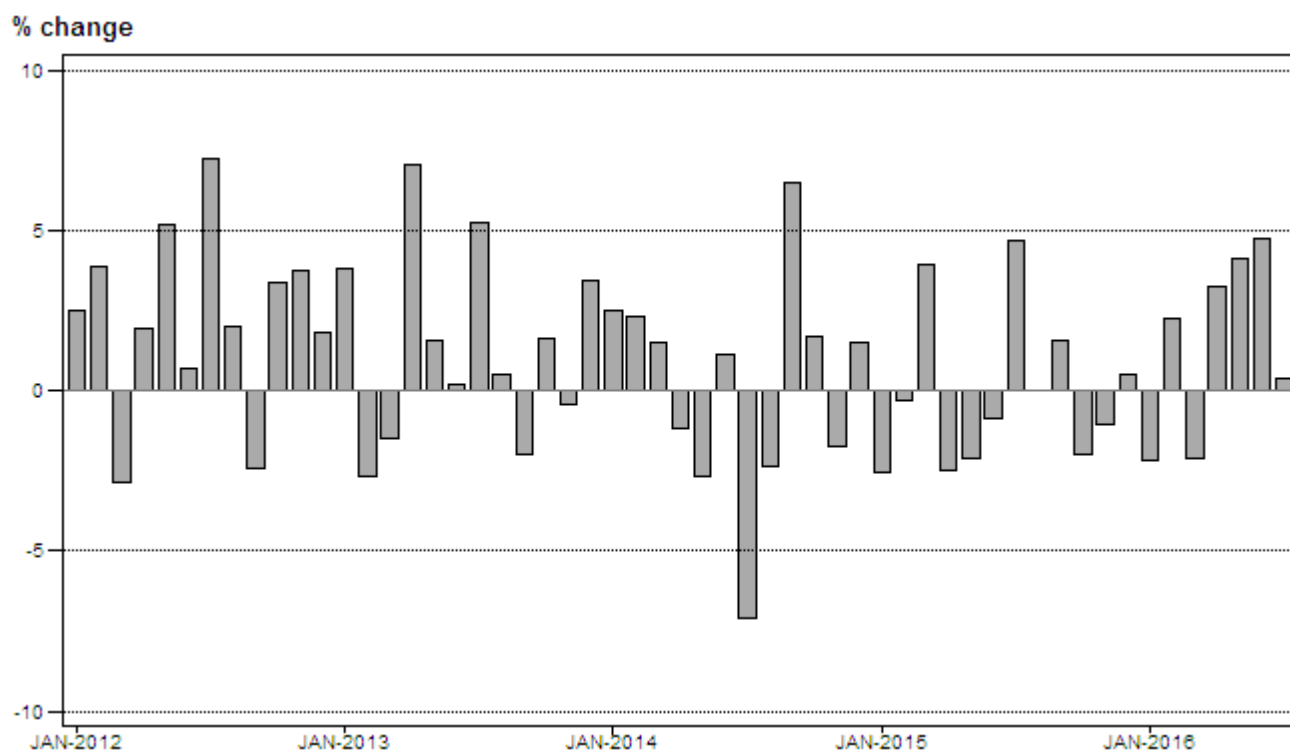
Seasonally adjusted manufacturing production increased by 1,7% in the three months ended July 2016 compared with the previous three months. Eight of the ten manufacturing divisions reported positive growth rates over this period.

The largest contributions to the 1,7% increase were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (3,5% and contributing 0,9 of a percentage point);
- food and beverages (1,1% and contributing 0,3 of a percentage point); and
- motor vehicles, parts and accessories and other transport equipment (2,9% and contributing 0,2 of a percentage point) – see Table B.

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

Manufacturing division and major group	Weight (2013)	Feb – Apr 2016	May – Jul 2016	% change between Feb – Apr 2016 and May – Jul 2016	Contribution (% points) to the total % change
Food and beverages	24,53	113,4	114,6	1,1	0,3
Meat, fish, fruit, etc.	5,99	117,0	120,9	3,3	0,2
Dairy products	1,81	118,4	113,8	-3,9	-0,1
Grain mill products	2,61	106,5	104,7	-1,7	0,0
Other food products	7,78	107,0	106,5	-0,5	0,0
Beverages	6,34	119,1	122,8	3,1	0,2
Textiles, clothing, leather and footwear	3,34	95,0	96,5	1,6	0,0
Textiles	0,89	88,2	86,0	-2,5	0,0
Other textile products	0,36	93,4	94,5	1,2	0,0
Knitted, crocheted articles	0,09	52,8	52,8	0,0	0,0
Wearing apparel	1,13	94,7	99,5	5,1	0,1
Leather and leather products	0,50	113,1	111,3	-1,6	0,0
Footwear	0,37	99,9	104,8	4,9	0,0
Wood and wood products, paper, publishing and printing	12,62	107,7	108,3	0,6	0,1
Sawmilling and planing of wood	1,81	135,1	140,0	3,6	0,1
Products of wood	2,47	108,6	106,1	-2,3	-0,1
Paper and paper products	4,96	106,4	105,0	-1,3	-0,1
Publishing	1,55	95,1	101,3	6,5	0,1
Printing, recorded media	1,83	93,3	95,0	1,8	0,0
Petroleum, chemical products, rubber and plastic products	23,58	111,2	115,1	3,5	0,9
Coke, petroleum products and nuclear fuel	9,01	108,8	108,4	-0,4	0,0
Basic chemicals	4,08	113,9	124,5	9,3	0,4
Other chemical products	6,21	120,6	127,6	5,8	0,4
Rubber products	1,35	97,3	106,2	9,1	0,1
Plastic products	2,93	101,0	100,0	-1,0	0,0
Glass and non-metallic mineral products	4,15	96,0	97,8	1,9	0,1
Glass and glass products	0,83	96,7	98,7	2,1	0,0
Non-metallic mineral products	3,32	95,9	97,6	1,8	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,77	98,8	98,6	-0,2	0,0
Basic iron and steel products	3,27	92,3	94,6	2,5	0,1
Non-ferrous metal products	3,11	94,3	94,5	0,2	0,0
Structural metal products	1,83	78,0	77,2	-1,0	0,0
Other fabricated metal products	3,92	122,0	121,0	-0,8	0,0
General purpose machinery	2,37	77,0	77,5	0,6	0,0
Special purpose machinery	3,44	110,4	107,5	-2,6	-0,1
Household appliances	0,83	92,4	94,8	2,6	0,0
Electrical machinery	1,67	111,9	105,8	-5,5	-0,1
Radio, television and communication apparatus and professional equipment	1,55	133,8	141,5	5,8	0,1
Radio, television and communication	0,90	152,6	168,2	10,2	0,1
Professional equipment	0,65	107,7	104,6	-2,9	0,0
Motor vehicles, parts and accessories and other transport equipment	6,85	111,9	115,2	2,9	0,2
Motor vehicles	2,47	137,6	137,8	0,1	0,0
Bodies for motor vehicles, trailers and semi-	0,44	109,8	112,7	2,6	0,0
Parts and accessories	2,78	94,6	99,8	5,5	0,1
Other transport equipment	1,16	99,3	105,0	5,7	0,1
Furniture and other manufacturing	2,94	85,9	89,0	3,6	0,1
Furniture	1,06	95,7	99,0	3,4	0,0
Other manufacturing groups	1,88	80,5	83,4	3,6	0,1
Total	100	107,4	109,2	1,7	1,7

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 July 2016

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

	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16
Year-on-year % change, unadjusted	8,3	1,5	8,9	9,5	8,5	5,8
Month-on-month % change, seasonally adjusted	2,0	0,1	0,7	3,4	-0,2	0,5
3-month % change, seasonally adjusted ¹	0,7	2,1	2,9	3,3	3,7	3,9

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

Seasonally adjusted manufacturing sales increased by 0,5% in July 2016 compared with June 2016. This followed month-on-month changes of -0,2% in June 2016 and 3,4% in May 2016 – see Table C.

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

Manufacturing division	Feb – Apr 2016 (R million)	May – Jul 2016 (R million)	% change between Feb – Apr 2016 and May – Jul 2016	Contribution (% points) to the total % change
Food and beverages	117 268	124 054	5,8	1,4
Textiles, clothing, leather and footwear	13 384	13 914	4,0	0,1
Wood and wood products, paper, publishing and printing	37 809	38 840	2,7	0,2
Petroleum, chemical products, rubber and plastic products	105 078	108 619	3,4	0,7
Glass and non-metallic mineral products	14 045	14 355	2,2	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	102 190	104 079	1,8	0,4
Electrical machinery	15 596	14 959	-4,1	-0,1
Radio, television and communication apparatus and professional equipment	6 356	6 880	8,2	0,1
Motor vehicles, parts and accessories and other transport equipment	65 081	68 631	5,5	0,7
Furniture and other manufacturing	15 973	17 855	11,8	0,4
Total	492 779	512 186	3,9	3,9

PJ Lehohla
Statistician-General

Note: Changes to the monthly current indicator survey and the impact on the statistical series

Business register and samples

Today Statistics South Africa (Stats SA) publishes results for the monthly survey of manufacturing production and sales from a new sample drawn in April 2016, which replaces the previous sample that was drawn in April 2015. The sample was drawn from a business register of enterprises with an annual turnover of at least R1 878 106 and that are required to register with the South African Revenue Service (SARS) for value added tax.

Owing to the evolving nature of business, the business register is maintained on a continuous basis. The maintenance process is aimed, amongst other things, at capturing changes related to new businesses, ceased businesses, merged businesses and classification changes. In addition, Stats SA undertakes quality improvement surveys related to the business register, the primary objective of which is to capture up-to-date information about the structures and activities of large and complex businesses. This process enables Stats SA to review classification codes for these businesses. These changes are an essential part of the statistical architecture.

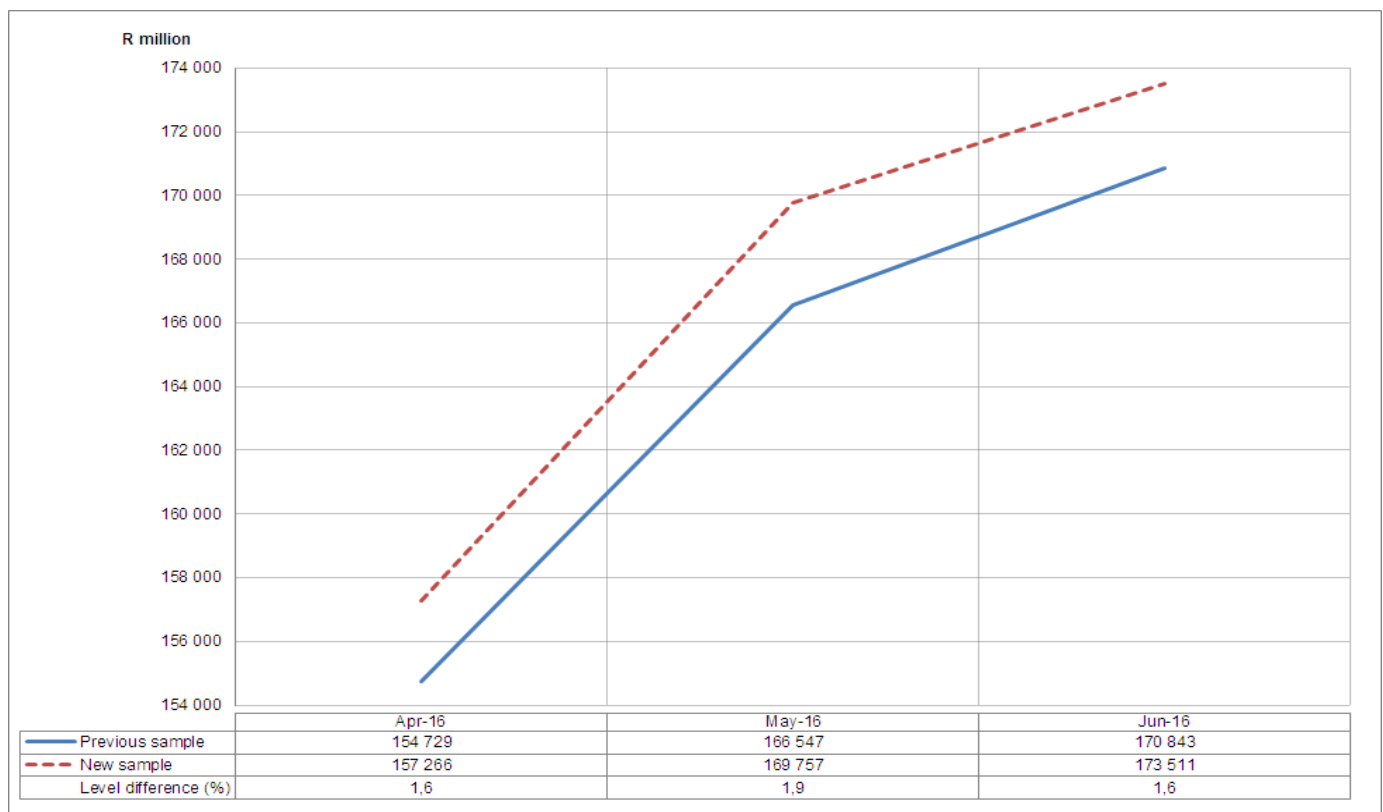
Comparison of total sales between the previous and new samples of the manufacturing industry

The reported level of total sales for the monthly survey of the manufacturing industry for the months April to June 2016 based on the new sample was 1,7% (R8 415 million) higher than the level of total sales recorded for the previous sample – see Table E and Figure A. The previous sample was drawn in April 2015 and was operational for the last half of 2015 and the first half of 2016.

Table E – Total sales for previous and new samples for the manufacturing industry – April to June 2016

Manufacturing industry	Previous sample (R million)	New sample (R million)	Difference	
			(R million)	(%)
	492 119	500 534	8 415	1,7

Figure A – Total value of sales of manufactured products: monthly levels of previous and new samples for April to June 2016



Comparison of sales between the previous and new samples by division

The differences in sales between the previous and new samples by manufacturing division are shown in Table F.

Table F – Manufacturing sales for previous and new samples by division: April to June 2016

Manufacturing division	Previous sample (R million)	New sample (R million)	Difference	
			(R million)	(%) ¹
Food and beverages	111 652	116 026	4 374	3,9
Textiles, clothing, leather and footwear	13 328	13 743	415	3,1
Wood and wood products, paper, publishing and printing	35 844	36 273	429	1,2
Petroleum, chemical products, rubber and plastic products	106 071	105 457	-614	-0,6
Glass and non-metallic mineral products	14 224	14 468	244	1,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	105 186	106 548	1 362	1,3
Electrical machinery	14 691	14 803	112	0,8
Radio, television and communication apparatus and professional equipment	5 169	6 169	1 000	19,3
Motor vehicles, parts and accessories and other transport equipment	70 859	69 550	-1 309	-1,8
Furniture and other manufacturing	15 097	17 497	2 400	15,9
Total manufacturing	492 119	500 534	8 415	1,7

¹ The percentage difference is the new sample minus the previous sample, divided by the previous sample, multiplied by 100.

The largest percentage differences were in the following manufacturing divisions:

- radio, television and communication apparatus and professional equipment (19,3% or R1 000 million higher in the new sample);
- furniture and 'other' manufacturing (15,9% or R2 400 million higher in the new sample); and
- food and beverages (3,9% or R4 374 million higher in the new sample).

Backcasting

To avoid breaks in time series and to minimise revisions to historical growth rates, historical sales levels were revised (i.e. they were linked to the estimates based on the new sample).

Tables

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

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

¹ The latest three months are preliminary.

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

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

Table 3 – Seasonally adjusted volume of manufacturing production

Month	Index (Base: 2010=100)				Month-on-month % change			
	2013	2014	2015	2016	2013	2014	2015	2016
Jan	105,9	108,2	106,6	105,7	0,0	0,8	-0,7	-1,2
Feb	104,5	106,8	106,5	107,6	-1,3	-1,3	-0,1	1,8
Mar	105,1	104,9	108,8	107,0	0,6	-1,8	2,2	-0,6
Apr	107,7	108,8	105,6	107,7	2,5	3,7	-2,9	0,7
May	107,4	106,2	105,0	109,2	-0,3	-2,4	-0,6	1,4
Jun	106,6	107,3	105,3	110,0	-0,7	1,0	0,3	0,7
Jul	109,1	101,2	105,8	108,4	2,3	-5,7	0,5	-1,5
Aug	106,9	105,1	106,2		-2,0	3,9	0,4	
Sep	102,0	107,3	108,3		-4,6	2,1	2,0	
Oct	106,5	107,9	106,9		4,4	0,6	-1,3	
Nov	108,1	107,4	105,7		1,5	-0,5	-1,1	
Dec	107,3	107,4	107,0		-0,7	0,0	1,2	

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

Manufacturing division and major group	Weight (2013)	Feb-16	Mar-16	Apr-16	¹ May-16	¹ Jun-16	¹ Jul-16
Food and beverages	24,53	104,7	109,5	105,3	111,8	112,5	112,3
Meat, fish, fruit, etc.	5,99	105,2	123,0	114,1	123,0	120,0	116,4
Dairy products	1,81	115,9	123,0	111,9	103,0	101,5	109,3
Grain mill products	2,61	99,9	108,3	100,5	108,0	110,6	100,2
Other food products	7,78	96,0	91,2	100,8	106,7	115,8	120,7
Beverages	6,34	113,6	116,0	102,6	111,6	105,4	104,0
Textiles, clothing, leather and footwear	3,34	98,7	96,1	95,5	96,0	94,7	99,4
Textiles	0,89	95,6	95,6	89,0	90,9	88,1	86,4
Other textile products	0,36	96,6	89,5	98,9	99,1	93,5	98,6
Knitted, crocheted articles	0,09	56,7	57,6	58,4	58,1	51,5	56,3
Wearing apparel	1,13	99,1	91,3	90,3	93,8	92,5	108,5
Leather and leather products	0,50	116,3	113,8	120,8	116,5	126,0	91,7
Footwear	0,37	93,0	103,5	98,2	93,1	86,3	124,0
Wood and wood products, paper, publishing and printing	12,62	103,9	110,2	96,2	106,1	109,6	109,3
Sawmilling and planing of wood	1,81	138,2	141,2	136,0	151,6	143,4	142,7
Products of wood	2,47	108,3	110,8	100,9	106,3	109,6	109,2
Paper and paper products	4,96	99,0	113,3	93,1	100,1	108,9	101,4
Publishing	1,55	86,5	89,1	79,1	89,1	96,3	102,7
Printing, recorded media	1,83	91,8	88,1	73,3	91,4	89,3	103,3
Petroleum, chemical products, rubber and plastic products	23,58	106,9	112,2	105,1	111,5	115,4	114,0
Coke, petroleum products and nuclear fuel	9,01	97,2	113,1	107,1	105,6	105,9	110,9
Basic chemicals	4,08	110,0	111,6	101,2	120,3	132,7	119,2
Other chemical products	6,21	120,0	120,2	111,7	122,3	127,8	121,9
Rubber products	1,35	100,4	101,3	100,9	114,3	108,4	111,1
Plastic products	2,93	108,0	98,3	92,6	93,3	97,2	100,7
Glass and non-metallic mineral products	4,15	89,2	92,7	95,1	101,7	104,7	102,8
Glass and glass products	0,83	86,2	86,9	88,2	100,2	101,3	90,1
Non-metallic mineral products	3,32	89,9	94,1	96,8	102,1	105,5	106,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,77	99,8	104,9	95,3	99,9	102,5	99,0
Basic iron and steel products	3,27	92,3	94,7	96,3	107,0	97,3	86,7
Non-ferrous metal products	3,11	97,7	98,8	93,5	95,2	96,7	93,6
Structural metal products	1,83	84,9	79,1	70,0	79,1	81,5	75,0
Other fabricated metal products	3,92	125,1	126,1	114,4	124,5	125,3	124,8
General purpose machinery	2,37	72,1	79,1	72,6	76,3	86,2	75,4
Special purpose machinery	3,44	106,5	128,7	104,6	97,2	110,4	116,2
Household appliances	0,83	101,3	99,8	88,9	96,7	97,6	94,9
Electrical machinery	1,67	109,0	125,3	104,7	105,9	113,4	107,4
Radio, television and communication apparatus and professional equipment	1,55	136,1	134,3	115,4	124,3	144,1	137,5
Radio, television and communication apparatus	0,90	155,4	142,8	125,9	139,1	170,1	164,4
Professional equipment	0,65	109,5	122,6	100,8	103,9	108,2	100,3
Motor vehicles, parts and accessories and other transport equipment	6,85	107,6	114,0	113,5	119,1	120,7	117,1
Motor vehicles	2,47	123,0	136,1	145,0	151,2	136,4	143,8
Bodies for motor vehicles, trailers and semi-trailers	0,44	112,5	106,2	109,9	117,0	120,0	119,6
Parts and accessories	2,78	100,2	96,1	98,8	103,6	100,2	104,5
Other transport equipment	1,16	91,0	113,1	83,5	89,1	137,0	89,5
Furniture and other manufacturing	2,94	94,5	71,6	78,4	90,9	89,1	93,5
Furniture	1,06	89,7	82,8	89,6	98,2	98,2	107,3
Other manufacturing groups	1,88	97,2	65,2	72,2	86,8	84,0	85,8
Total	100	103,8	108,1	101,4	107,8	110,4	109,1

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

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

Manufacturing division and major group	Weight (2013)	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16
Food and beverages	24,53	0,7	-0,3	0,1	0,9	0,3	-0,2
Meat, fish, fruit, etc.	5,99	-0,1	-0,3	-0,1	0,4	0,1	0,0
Dairy products	1,81	0,3	0,2	0,1	0,0	-0,1	-0,1
Grain mill products	2,61	0,2	0,0	0,1	0,1	0,0	-0,2
Other food products	7,78	0,3	-0,2	-0,1	-0,3	0,1	0,1
Beverages	6,34	0,1	0,0	0,1	0,7	0,3	0,1
Textiles, clothing, leather and footwear	3,34	-0,1	-0,3	0,0	-0,1	0,1	0,0
Textiles	0,89	0,0	0,0	0,0	0,0	0,0	0,0
Other textile products	0,36	0,0	0,0	0,0	0,0	0,0	0,0
Knitted, crocheted articles	0,09	0,0	0,0	0,0	0,0	0,0	0,0
Wearing apparel	1,13	0,0	-0,2	-0,1	0,0	0,0	0,0
Leather and leather products	0,50	-0,1	-0,1	0,0	-0,1	0,0	-0,1
Footwear	0,37	0,0	0,0	0,0	0,0	0,0	0,0
Wood and wood products, paper, publishing and printing	12,62	0,9	0,5	0,4	0,8	0,6	0,1
Sawmilling and planing of wood	1,81	0,2	0,1	0,3	0,3	0,1	0,0
Products of wood	2,47	0,3	0,0	0,0	0,1	0,0	-0,1
Paper and paper products	4,96	0,3	0,5	0,1	0,2	0,3	0,1
Publishing	1,55	0,0	-0,1	0,0	0,1	0,1	0,2
Printing, recorded media	1,83	0,1	0,0	0,0	0,1	0,1	-0,1
Petroleum, chemical products, rubber and plastic products	23,58	1,2	0,5	2,0	2,1	3,5	1,8
Coke, petroleum products and nuclear fuel	9,01	0,1	1,1	1,7	1,2	1,8	1,6
Basic chemicals	4,08	0,5	-0,2	0,0	0,2	0,8	0,0
Other chemical products	6,21	0,3	-0,1	0,5	0,7	0,8	0,3
Rubber products	1,35	0,0	-0,2	0,1	0,1	0,0	0,0
Plastic products	2,93	0,3	-0,2	-0,2	0,0	0,0	0,0
Glass and non-metallic mineral products	4,15	-0,1	-0,2	0,0	0,0	0,1	-0,1
Glass and glass products	0,83	0,0	0,0	0,1	0,1	0,1	-0,1
Non-metallic mineral products	3,32	-0,1	-0,2	0,0	-0,1	0,0	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,77	-0,5	-1,6	-0,3	0,2	0,0	-0,9
Basic iron and steel products	3,27	-0,2	-0,2	0,0	0,6	0,5	0,0
Non-ferrous metal products	3,11	0,1	-0,1	-0,2	0,0	-0,1	-0,1
Structural metal products	1,83	0,0	-0,2	-0,1	-0,1	0,0	-0,2
Other fabricated metal products	3,92	0,1	-0,3	0,1	0,4	0,1	0,0
General purpose machinery	2,37	-0,3	-0,1	-0,1	-0,2	0,0	-0,2
Special purpose machinery	3,44	-0,2	-0,4	0,2	-0,4	-0,4	-0,1
Household appliances	0,83	-0,1	-0,2	-0,1	-0,1	-0,1	-0,1
Electrical machinery	1,67	0,1	0,1	0,3	0,0	-0,1	-0,3
Radio, television and communication apparatus and professional equipment	1,55	0,3	0,1	0,2	0,0	0,2	0,1
Radio, television and communication apparatus	0,90	0,3	0,1	0,1	0,1	0,2	0,1
Professional equipment	0,65	0,0	0,0	0,0	-0,1	0,0	0,0
Motor vehicles, parts and accessories and other transport equipment	6,85	-0,2	-0,5	0,7	0,2	0,2	-0,3
Motor vehicles	2,47	-0,3	-0,2	0,5	0,1	-0,2	-0,2
Bodies for motor vehicles, trailers and semi-trailers	0,44	0,0	-0,1	0,0	0,0	0,0	-0,1
Parts and accessories	2,78	0,2	-0,1	0,2	0,2	0,2	0,0
Other transport equipment	1,16	0,0	-0,1	0,1	0,0	0,2	0,0
Furniture and other manufacturing	2,94	-0,1	-0,5	-0,1	0,0	-0,2	0,1
Furniture	1,06	-0,1	-0,2	-0,1	0,0	-0,1	-0,1
Other manufacturing groups	1,88	0,1	-0,3	0,0	0,0	-0,1	0,1
Total	100	2,3	-2,1	3,3	4,2	4,7	0,4

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

Manufacturing division and major group	Weight (2013)	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Month-on-month % change
Food and beverages	24,53	111,4	114,8	115,1	113,6	115,1	1,3
Meat, fish, fruit, etc.	5,99	117,3	117,4	122,0	120,2	120,6	0,3
Dairy products	1,81	122,5	116,0	113,7	113,2	114,5	1,1
Grain mill products	2,61	106,2	105,4	106,5	105,4	102,2	-3,0
Other food products	7,78	102,3	106,4	105,0	105,8	108,8	2,8
Beverages	6,34	115,8	126,1	124,9	120,4	123,0	2,2
Textiles, clothing, leather and footwear	3,34	93,9	94,8	95,6	97,2	96,6	-0,6
Textiles	0,89	90,7	87,0	86,6	84,9	86,6	2,0
Other textile products	0,36	91,9	96,4	95,6	93,9	94,0	0,1
Knitted, crocheted articles	0,09	54,1	53,3	52,2	52,9	53,4	0,9
Wearing apparel	1,13	92,3	90,6	96,9	98,0	103,6	5,7
Leather and leather products	0,50	106,5	120,4	113,8	121,6	98,6	-18,9
Footwear	0,37	101,3	100,2	99,5	105,4	109,6	4,0
Wood and wood products, paper, publishing and printing	12,62	110,6	104,2	109,2	109,2	106,6	-2,4
Sawmilling and planing of wood	1,81	134,8	138,2	148,9	137,5	133,5	-2,9
Products of wood	2,47	109,7	105,0	107,4	106,8	104,2	-2,4
Paper and paper products	4,96	113,0	99,4	104,1	106,5	104,4	-2,0
Publishing	1,55	94,8	95,6	98,6	102,1	103,3	1,2
Printing, recorded media	1,83	94,7	90,1	94,7	98,1	92,1	-6,1
Petroleum, chemical products, rubber and plastic products	23,58	111,1	111,8	113,9	117,6	113,8	-3,2
Coke, petroleum products and nuclear fuel	9,01	110,6	110,9	107,4	110,0	107,9	-1,9
Basic chemicals	4,08	113,0	113,2	120,0	135,7	117,8	-13,2
Other chemical products	6,21	119,3	121,3	127,5	128,2	127,2	-0,8
Rubber products	1,35	95,4	100,7	107,8	104,8	105,9	1,0
Plastic products	2,93	99,7	97,2	99,1	99,5	101,4	1,9
Glass and non-metallic mineral products	4,15	94,9	98,1	98,6	98,8	96,0	-2,8
Glass and glass products	0,83	99,0	97,8	107,8	102,8	85,5	-16,8
Non-metallic mineral products	3,32	93,9	98,2	96,3	97,8	98,7	0,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,77	98,3	98,1	98,5	99,7	97,6	-2,1
Basic iron and steel products	3,27	90,6	92,5	95,6	96,6	91,6	-5,2
Non-ferrous metal products	3,11	93,2	94,1	94,0	96,4	93,1	-3,4
Structural metal products	1,83	79,1	75,2	78,2	78,4	75,1	-4,2
Other fabricated metal products	3,92	121,6	121,0	123,8	121,0	118,1	-2,4
General purpose machinery	2,37	78,8	75,9	75,6	82,8	74,1	-10,5
Special purpose machinery	3,44	109,7	110,0	104,2	106,0	112,4	6,0
Household appliances	0,83	89,5	91,0	94,1	93,6	96,6	3,2
Electrical machinery	1,67	112,4	112,3	106,3	106,2	104,9	-1,2
Radio, television and communication apparatus and professional equipment	1,55	137,2	129,7	136,9	146,6	141,1	-3,8
Radio, television and communication apparatus	0,90	158,6	146,5	160,2	178,3	166,2	-6,8
Professional equipment	0,65	107,6	106,5	104,8	102,6	106,4	3,7
Motor vehicles, parts and accessories and other transport equipment	6,85	111,6	117,1	115,2	116,6	113,8	-2,4
Motor vehicles	2,47	135,9	151,2	145,4	133,9	134,1	0,1
Bodies for motor vehicles, trailers and semi-trailers	0,44	109,7	108,1	111,1	111,2	115,7	4,0
Parts and accessories	2,78	95,9	94,8	97,6	100,7	101,1	0,4
Other transport equipment	1,16	98,4	101,7	94,9	120,0	100,1	-16,6
Furniture and other manufacturing	2,94	80,6	85,2	92,5	85,8	88,7	3,4
Furniture	1,06	91,5	98,0	98,1	97,4	101,4	4,1
Other manufacturing groups	1,88	74,5	78,1	89,4	79,3	81,6	2,9
Total	100	107,0	107,7	109,2	110,0	108,4	-1,5

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

Month	2010 *	2011 *	2012 *	2013 *	2014 *	2015 *	2016 ^{1*}
Jan	91 479	97 411	108 491	117 959	131 761	131 002	134 925
Feb	103 635	113 324	127 563	133 672	148 322	145 423	157 533
Mar	117 362	127 991	135 237	139 554	153 523	163 845	166 251
Apr	103 535	109 650	119 115	135 261	145 555	144 372	157 266
May	111 173	119 270	132 208	143 182	150 221	155 084	169 757
Jun	115 608	123 962	132 709	141 053	158 110	159 864	173 511
Jul	114 832	114 767	129 532	148 320	147 886	160 520	169 757
Aug	112 499	126 866	136 533	146 049	158 442	158 603	
Sep	115 236	135 195	133 921	142 416	164 928	169 078	
Oct	123 733	135 976	146 705	158 674	177 895	175 325	
Nov	128 820	141 655	155 603	164 565	173 109	176 362	
Dec	106 438	119 470	125 295	142 129	150 084	153 063	
Total	1 344 350	1 465 537	1 582 912	1 712 834	1 859 836	1 892 541	

¹ The latest three months are preliminary.

* Revised. See note on page 6.

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

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

Table 10 – Seasonally adjusted manufacturing sales at current prices

Month	R million				Month-on-month % change			
	2013	2014	2015	2016	2013	2014	2015	2016
Jan	137 651	152 591	154 232	160 509	1,4	0,9	-2,3	0,8
Feb	139 355	155 055	152 098	163 780	1,2	1,6	-1,4	2,0
Mar	139 799	149 882	158 889	163 944	0,3	-3,3	4,5	0,1
Apr	140 676	156 170	154 732	165 055	0,6	4,2	-2,6	0,7
May	141 745	150 477	156 712	170 711	0,8	-3,6	1,3	3,4
Jun	141 184	156 487	156 996	170 322	-0,4	4,0	0,2	-0,2
Jul	147 012	146 614	158 462	171 153	4,1	-6,3	0,9	0,5
Aug	143 605	157 364	158 480		-2,3	7,3	0,0	
Sep	137 339	157 562	161 046		-4,4	0,1	1,6	
Oct	143 742	160 520	159 905		4,7	1,9	-0,7	
Nov	148 026	157 961	159 147		3,0	-1,6	-0,5	
Dec	151 299	157 893	159 314		2,2	0,0	0,1	

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

Manufacturing division and major group	* Feb-16	* Mar-16	* Apr-16	¹ May-16	¹ Jun-16	¹ Jul-16
Food and beverages	35 327	39 845	36 923	39 055	40 048	40 177
Meat, fish, fruit, etc.	9 674	11 671	10 482	11 282	11 412	11 468
Dairy products	3 181	3 467	3 197	3 186	3 189	3 252
Grain mill products	5 957	6 856	6 328	7 048	7 146	6 590
Other food products	6 924	7 073	8 188	8 128	8 719	9 845
Beverages	9 591	10 778	8 729	9 411	9 581	9 022
Textiles, clothing, leather and footwear	4 443	4 567	4 545	4 661	4 537	4 705
Textiles	714	756	693	736	671	680
Other textile products	1 156	1 097	1 219	1 236	1 166	1 219
Knitted, crocheted articles	200	215	217	225	197	210
Wearing apparel	1 371	1 457	1 381	1 489	1 439	1 685
Leather and leather products	622	593	598	583	636	481
Footwear	379	448	437	391	429	431
Wood and wood products, paper, publishing and printing	12 181	12 804	11 034	12 096	13 143	13 101
Sawmilling and planing of wood	715	724	774	784	671	774
Products of wood	1 662	1 795	1 655	1 645	1 733	1 671
Paper and paper products	5 597	6 310	5 216	5 633	6 437	5 861
Publishing	1 677	1 596	1 432	1 648	1 828	1 887
Printing, recorded media	2 531	2 379	1 957	2 386	2 475	2 908
Petroleum, chemical products, rubber and plastic products	33 175	34 263	32 894	36 119	36 444	36 369
Coke, petroleum products and nuclear fuel	9 002	10 506	10 516	12 168	11 675	11 905
Basic chemicals	7 576	7 137	6 838	7 220	7 704	7 423
Other chemical products	9 820	10 140	9 208	10 218	10 393	10 015
Rubber products	1 407	1 426	1 426	1 475	1 550	1 515
Plastic products	5 370	5 054	4 906	5 039	5 122	5 510
Glass and non-metallic mineral products	4 462	4 531	4 555	4 935	4 978	4 973
Glass and glass products	730	719	719	876	875	846
Non-metallic mineral products	3 732	3 812	3 837	4 060	4 102	4 127
Basic iron and steel, non-ferrous metal products, metal products and machinery	34 293	34 842	33 389	36 041	37 118	34 054
Basic iron and steel products	9 086	8 875	9 296	10 192	10 590	8 563
Non-ferrous metal products	8 237	8 088	8 192	8 909	8 857	8 074
Structural metal products	3 001	2 791	2 559	2 782	2 890	2 784
Other fabricated metal products	5 926	5 966	5 591	6 102	6 131	6 243
General purpose machinery	2 831	3 017	2 842	2 991	3 428	2 943
Special purpose machinery	4 175	5 040	3 974	4 046	4 160	4 496
Household appliances	1 036	1 064	936	1 019	1 061	951
Electrical machinery	5 201	6 061	4 706	4 721	5 376	5 107
Radio, television and communication apparatus and professional equipment	2 100	2 117	1 813	2 047	2 309	2 251
Radio, television and communication apparatus	1 196	1 173	1 006	1 165	1 406	1 415
Professional equipment	903	944	807	882	903	836
Motor vehicles, parts and accessories and other transport equipment	20 877	22 175	22 190	23 471	23 889	23 375
Motor vehicles	11 285	11 938	12 147	13 003	12 650	13 389
Bodies for motor vehicles, trailers and semi-trailers	924	889	939	998	1 018	1 055
Parts and accessories	6 841	7 059	7 271	7 774	7 404	7 282
Other transport equipment	1 828	2 289	1 832	1 695	2 817	1 650
Furniture and other manufacturing	5 473	5 046	5 216	6 611	5 670	5 645
Furniture	1 097	1 022	1 127	1 214	1 245	1 325
Other manufacturing groups	4 376	4 024	4 089	5 397	4 425	4 321
Total	157 533	166 251	157 266	169 757	173 511	169 757

¹ The latest three months are preliminary.

* Revised. See note on page 6.

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

Manufacturing division and major group	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16
Food and beverages	11,1	11,9	10,8	14,8	14,7	12,0
Meat, fish, fruit, etc.	12,4	10,4	11,7	15,8	13,3	11,3
Dairy products	19,0	9,3	6,9	4,2	4,4	0,5
Grain mill products	21,8	17,0	19,5	25,5	20,8	7,4
Other food products	1,9	11,1	11,4	13,8	20,2	31,0
Beverages	8,5	11,7	5,2	11,3	11,1	4,0
Textiles, clothing, leather and footwear	7,8	-1,3	4,9	5,1	6,7	4,0
Textiles	15,0	9,9	10,4	14,8	7,2	10,9
Other textile products	6,3	-4,7	12,5	4,7	4,6	2,0
Knitted, crocheted articles	11,1	9,7	8,0	8,2	11,9	2,4
Wearing apparel	7,4	-6,8	-5,8	4,2	12,9	11,8
Leather and leather products	1,6	1,7	3,8	-3,0	-0,5	-16,3
Footwear	9,9	0,9	15,6	4,8	2,1	0,9
Wood and wood products, paper, publishing and printing	11,0	5,6	5,9	10,7	9,5	6,9
Sawmilling and planing of wood	5,5	11,9	24,4	13,3	-3,3	4,9
Products of wood	13,3	5,9	7,3	5,4	2,7	-0,8
Paper and paper products	10,6	8,8	7,1	11,1	10,2	8,4
Publishing	7,2	-2,3	1,2	11,5	15,7	15,3
Printing, recorded media	14,6	1,1	-0,8	11,9	12,4	4,1
Petroleum, chemical products, rubber and plastic products	6,0	-5,3	-3,6	-2,4	0,4	2,0
Coke, petroleum products and nuclear fuel	-16,4	-16,9	-19,5	-18,1	-15,6	-6,0
Basic chemicals	25,1	-2,4	1,3	-3,7	6,9	1,0
Other chemical products	16,4	4,7	11,6	17,0	13,6	9,4
Rubber products	5,2	-6,1	12,8	9,0	12,2	5,7
Plastic products	14,6	0,5	2,7	10,2	8,4	8,9
Glass and non-metallic mineral products	2,4	-3,3	6,4	6,2	2,5	-0,6
Glass and glass products	-0,8	3,5	2,9	22,9	5,2	1,6
Non-metallic mineral products	3,1	-4,5	7,1	3,2	1,9	-1,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	5,4	-6,3	11,7	8,8	8,6	1,2
Basic iron and steel products	-1,2	-20,0	13,3	7,2	12,6	-5,3
Non-ferrous metal products	18,6	8,9	22,2	25,8	23,9	10,5
Structural metal products	2,0	-13,0	3,5	-5,0	-1,9	-7,6
Other fabricated metal products	9,3	-3,3	4,7	8,8	5,8	5,5
General purpose machinery	-5,5	-1,9	4,0	-3,9	1,6	-3,5
Special purpose machinery	5,9	-0,4	10,2	1,6	-6,6	3,2
Household appliances	-3,7	-7,4	11,3	11,7	-0,9	-1,5
Electrical machinery	10,3	17,2	23,2	10,0	1,7	-5,4
Radio, television and communication apparatus and professional equipment	19,3	5,2	13,9	13,8	18,5	13,5
Radio, television and communication apparatus	21,5	7,3	19,8	23,3	27,1	16,4
Professional equipment	16,5	2,7	7,2	3,2	7,2	8,9
Motor vehicles, parts and accessories and other transport equipment	12,1	5,0	27,7	19,0	13,7	12,7
Motor vehicles	13,8	4,7	34,8	19,1	9,5	18,8
Bodies for motor vehicles, trailers and semi-trailers	1,7	-11,7	-0,3	10,0	11,4	5,0
Parts and accessories	13,2	9,5	24,1	26,3	17,4	8,8
Other transport equipment	4,6	1,5	17,3	-3,0	25,5	-7,3
Furniture and other manufacturing	4,1	-1,6	-0,2	29,7	11,2	3,8
Furniture	-6,0	-12,3	-2,3	-3,0	-2,1	-1,1
Other manufacturing groups	6,9	1,5	0,4	40,3	15,7	5,4
Total	8,3	1,5	8,9	9,5	8,5	5,8

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

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

Manufacturing division and major group	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Month-on-month % change
Food and beverages	39 208	39 687	40 535	41 232	42 287	2,6
Meat, fish, fruit, etc.	11 211	11 079	11 318	11 471	11 642	1,5
Dairy products	3 342	3 286	3 333	3 395	3 342	-1,6
Grain mill products	6 570	6 541	6 839	6 836	6 657	-2,6
Other food products	7 749	8 084	8 321	8 759	9 857	12,5
Beverages	10 336	10 697	10 725	10 771	10 789	0,2
Textiles, clothing, leather and footwear	4 496	4 438	4 628	4 619	4 667	1,0
Textiles	711	658	697	668	698	4,5
Other textile products	1 095	1 165	1 192	1 171	1 168	-0,3
Knitted, crocheted articles	199	190	202	197	200	1,5
Wearing apparel	1 453	1 397	1 529	1 546	1 646	6,5
Leather and leather products	588	584	575	598	517	-13,5
Footwear	449	443	433	440	438	-0,5
Wood and wood products, paper, publishing and printing	12 784	12 261	12 728	13 057	13 055	0,0
Sawmilling and planing of wood	713	777	774	652	742	13,8
Products of wood	1 737	1 717	1 691	1 683	1 663	-1,2
Paper and paper products	6 136	5 725	5 893	6 153	6 135	-0,3
Publishing	1 701	1 679	1 800	1 897	1 889	-0,4
Printing, recorded media	2 497	2 364	2 571	2 671	2 625	-1,7
Petroleum, chemical products, rubber and plastic products	34 899	34 292	36 178	35 898	36 543	1,8
Coke, petroleum products and nuclear fuel	10 933	10 563	11 289	11 058	11 413	3,2
Basic chemicals	7 466	7 378	7 531	7 648	7 682	0,4
Other chemical products	9 945	9 722	10 566	10 379	10 394	0,1
Rubber products	1 384	1 429	1 461	1 496	1 467	-1,9
Plastic products	5 172	5 200	5 331	5 318	5 586	5,0
Glass and non-metallic mineral products	4 634	4 745	4 895	4 743	4 717	-0,5
Glass and glass products	836	852	966	859	837	-2,6
Non-metallic mineral products	3 798	3 894	3 929	3 884	3 880	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	33 791	34 391	35 061	35 021	33 997	-2,9
Basic iron and steel products	8 902	9 194	9 432	9 608	8 642	-10,1
Non-ferrous metal products	8 149	8 448	8 726	8 563	8 259	-3,6
Structural metal products	2 714	2 718	2 784	2 772	2 773	0,0
Other fabricated metal products	5 850	5 720	5 988	5 911	5 942	0,5
General purpose machinery	3 028	3 007	2 970	3 110	2 947	-5,2
Special purpose machinery	4 172	4 338	4 183	4 044	4 463	10,4
Household appliances	976	967	979	1 012	972	-4,0
Electrical machinery	5 318	5 210	4 897	5 042	5 020	-0,4
Radio, television and communication apparatus and professional equipment	2 105	2 096	2 247	2 326	2 307	-0,8
Radio, television and communication apparatus	1 232	1 251	1 391	1 461	1 441	-1,4
Professional equipment	873	845	857	865	866	0,1
Motor vehicles, parts and accessories and other transport equipment	21 475	22 639	22 787	22 857	22 987	0,6
Motor vehicles	11 620	12 532	12 634	12 319	12 754	3,5
Bodies for motor vehicles, trailers and semi-trailers	925	909	977	960	1 014	5,6
Parts and accessories	6 962	7 081	7 408	7 142	7 354	3,0
Other transport equipment	1 968	2 118	1 769	2 436	1 865	-23,4
Furniture and other manufacturing	5 234	5 296	6 754	5 527	5 574	0,9
Furniture	1 156	1 210	1 219	1 232	1 265	2,7
Other manufacturing groups	4 078	4 085	5 536	4 296	4 310	0,3
Total	163 944	165 055	170 711	170 322	171 153	0,5

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</i> (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities</i> (ISIC) with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two digit) and major group (three digit) level.
Collection rate	9 The preliminary collection rate for the survey on manufacturing production and sales for July 2016 was 81,3%. The collection rate for June 2016 for the new sample was 86,1%.
Statistical unit	10 The statistical unit for which information is compiled and published is an enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.
Revised figures	11 Revised figures are mainly due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures, as indicated in the relevant tables, are subject to change and when revised will not be indicated as such.

- Related publications** 12 Users may also wish to refer to *Stats in Brief* available from Stats SA.
- Rounding-off of figures** 13 Where necessary, the figures in the tables have been rounded off to the nearest digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.
- Historical data** 14 Historical manufacturing data are available on the Stats SA webpage. Click on the following link ([Time series data](#)) to access the data electronically.
- Past publications** 15 Past manufacturing releases are available on the Stats SA webpage. Click on the following link ([Past publications](#)) to access the releases electronically.

Technical notes

Survey methodology and design

- 1 The survey is conducted monthly. Questionnaires are sent to a sample of 3 005 enterprises from a population of 45 966 manufacturing enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Fax and telephone reminders are used to follow up on non-respondents.
- 2 A stratified random sample was drawn at the Standard Industrial Classification (SIC) three-digit level in April 2016 from Stats SA's business sampling frame (BSF). Strata were formed using a combination of the SIC and the measure of size classes for enterprises (see point 3 below).

The Neyman optimal allocation formula used to allocate samples to each stratum is given by a formula below:

$$n_h = \frac{N_h S_h}{\sum N_h S_h}$$

N_h and S_h are the stratum population size and the stratum variance respectively.

Class limits

- 3 Each manufacturing major group is divided into four size groups. All large enterprises (size group one) are completely enumerated. Simple random sampling is applied to medium (size group two) and to small (size group three and four) enterprises. The total value of sales of manufactured products of large enterprises (size group one) in a major group is added to the weighted totals of size group two, three and four of that major group to reflect the total value of sales of the major group.

Measure of size classes (Rand)

Enterprise size	Size group	Lower limits	Upper limits
Very small	4	1 878 106	15 000 000
Small	3	15 000 001	39 000 000
Medium	2	39 000 001	153 000 000
Large	1	153 000 001	

Sample weighting

- 4 For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form major group and division estimates. These procedures are consistent with international best practice.

Index of the volume of manufacturing production

- 5 The index of the volume of manufacturing production, also known as a production index, is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major 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 2016	NA

- 9 The weights reflect the importance of the major group/division to the total manufacturing industry. The weights change over time due to changes in the relative performance of industries, due to factors such as quality changes, changes in relative prices, and changes in customer preferences. New weights need to be calculated from time to time.

Table G – Weights by division and major group

Manufacturing divisions and major groups	Weights according to national accounts value added		
	2011	2012	2013 – 2016
Food and beverages	23,82	24,44	24,53
Meat, fish, fruit, etc.	5,19	5,39	5,99
Dairy products	2,30	1,78	1,81
Grain mill products	2,78	2,86	2,61
Other food products	7,12	7,73	7,78
Beverages	6,43	6,68	6,34
Textiles, clothing, leather and footwear	2,92	3,17	3,34
Textiles	0,84	0,74	0,89
Other textile products	0,39	0,47	0,36
Knitted, crocheted articles	0,08	0,10	0,09
Wearing apparel	0,99	1,19	1,13
Leather and leather products	0,19	0,28	0,50
Footwear	0,43	0,39	0,37
Wood and wood products, paper, publishing and printing	9,46	12,65	12,62
Sawmilling and planing of wood	0,82	1,83	1,81
Products of wood	1,76	2,55	2,47
Paper and paper products	3,26	4,89	4,96
Publishing	1,45	1,51	1,55
Printing, recorded media	2,17	1,87	1,83
Petroleum, chemical products, rubber and plastic products	22,52	22,13	23,58
Coke, petroleum products and nuclear fuel	6,32	7,77	9,01
Basic chemicals	4,85	3,81	4,08
Other chemical products	7,06	6,49	6,21
Rubber products	1,18	1,00	1,35
Plastic products	3,11	3,06	2,93
Glass and non-metallic mineral products	4,42	3,91	4,15
Glass and glass products	0,89	0,78	0,83
Non-metallic mineral products	3,53	3,13	3,32
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,40	19,59	18,77
Basic iron and steel products	4,71	3,38	3,27
Non-ferrous metal products (including precious metals)	3,46	3,18	3,11
Structural metal products	2,21	1,89	1,83
Other fabricated metal products	3,89	4,40	3,92
General purpose machinery	2,44	2,44	2,37
Special purpose machinery	3,04	3,44	3,44
Household appliances	0,65	0,86	0,83
Electrical machinery	2,37	1,70	1,67
Radio, television and communication apparatus and professional equipment	1,45	1,41	1,55
Radio, television and communication apparatus	0,88	0,90	0,90
Professional equipment	0,57	0,51	0,65
Motor vehicles, parts and accessories and other transport equipment	8,58	7,39	6,85
Motor vehicles	3,84	2,98	2,47
Bodies for motor vehicles, trailers and semi-trailers	0,53	0,43	0,44
Parts and accessories	3,00	2,77	2,78
Other transport equipment	1,21	1,21	1,16
Furniture and other manufacturing	4,06	3,61	2,94
Furniture	1,05	1,08	1,06
Other manufacturing groups	3,01	2,53	1,88
Total	100	100	100

- Seasonal adjustment** **10** Seasonally adjusted estimates of all major groups are generated each month, using the X-12 Seasonal Adjustment Program developed by the US Bureau of the Census, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences, which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. Therefore the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour. The X-12-ARIMA procedure for manufacturing production and sales is described in more detail on the Stats SA website: [Click to Download Seasonal adjustment Manufacturing March 2016](#)
- Trend cycle** **11** The trend is the long-term pattern or movement of a time series. The X-12 Seasonal Adjustment Programme is used for smoothing seasonally adjusted estimates to estimates of the underlying trend.
- Reliability of estimates** **12** Data presented in this publication are based on information obtained from a sample and are, therefore, subject to sampling variability; that is, they may differ from the figures that would have been produced if the data had been obtained from all enterprises in the manufacturing industry in South Africa. Estimates are subject to sampling and non-sampling errors.
- 13** Inaccuracies may occur because of imperfections in reporting by enterprises and errors made in the collection and processing of the data. Inaccuracies of this kind are referred to as non-sampling errors. Every effort is made to minimise non-sampling errors by careful design of questionnaires, testing them in pilot studies, editing reported data and implementing efficient operating procedures. Fluctuations may occur in consecutive months as a result of seasonal and economic factors.
- Month-on-month percentage change** **14** The month-on-month percentage change in a variable for any given month is the change between that month and the previous month, expressed as a percentage of the latter.
- Year-on-year (annual) percentage change** **15** The year-on-year percentage change in a variable for any given period is the change between that period and the corresponding period of the previous year, expressed as a percentage of the latter.
- Index contribution (percentage points)** **16** The contribution (percentage points) of a major group or division to the total manufacturing production percentage change for a given period is calculated by multiplying the difference in the index of each major group or division by the weight of the major group or division and then dividing by the previous period total manufacturing index.
- Sales contribution (percentage points)** **17** The contribution (percentage points) of a division or major group to the percentage change in total manufacturing sales for a given period is calculated by multiplying the percentage change of each major group or division with its percentage contribution to the total sales of the previous period, divided by 100.

Glossary

Enterprise	The enterprise is a legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.	
Industry	An industry is made up of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the <i>System of National Accounts</i> (SNA) in the same way as in the 1993 <i>Standard Industrial Classification of all Economic Activities</i> (SIC), Fifth Edition, Report No. 09-90-02 of January 1993.	
Sales	Sales are the total value of sales and transfers-out of all own manufactured products/articles and the amounts received for installation, erection or assembly or other services rendered.	
Symbols and abbreviations	BSF	Business sampling frame
	GDP	Gross domestic product
	IMF	International Monetary Fund
	ISIC	International Standard Industrial Classification
	LSS	Large sample survey
	NA	National accounts
	PPI	Producer price index
	Rm	R million
	SIC	Standard Industrial Classification of all Economic Activities
	SARS	South African Revenue Service
	SDDS	Special Data Dissemination Standard
	Stats SA	Statistics South Africa
	VAT	Value added tax
	*	Revised figures

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Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English.

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General enquiries

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