

Statistical release

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Manufacturing: Production and sales (Preliminary)

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Enquiries:

Nicolai Claassen
Tel: (012) 310 8249

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Key figures for March 2015

Table A – Manufacturing production and sales

Estimates	March 2015	% change between March 2014 and March 2015	% change between January to March 2014 and January to March 2015
Physical volume of manufacturing production index (base: 2010=100)	110,2	3,8	0,4
Total estimated sales of manufactured products (R million)	160 978	6,3	1,3

Seasonally adjusted estimates	March 2015	% change between February and March 2015	% change between October to December 2014 and January to March 2015
Physical volume of manufacturing production index (base: 2010=100)	108,4	1,2	-0,6
Total value of sales of manufactured products (R million)	155 646	4,2	-3,1

Manufacturing production increased by 3,8% in March 2015 compared with March 2014.

The 3,8% year-on-year increase in manufacturing production in March 2015 was mainly due to higher production in the following divisions:

- food and beverages (8,2% and contributing 1,9 percentage points);
- petroleum, chemical products, rubber and plastic products (5,5% and contributing 1,2 percentage points); and
- motor vehicles, parts and accessories and other transport equipment (13,3% and contributing 1,0 percentage point) (see Table 4b).

Seasonally adjusted manufacturing production decreased by 0,6% in the first quarter of 2015 compared with the fourth quarter of 2014. Six of the ten manufacturing divisions reported negative growth rates over this period.

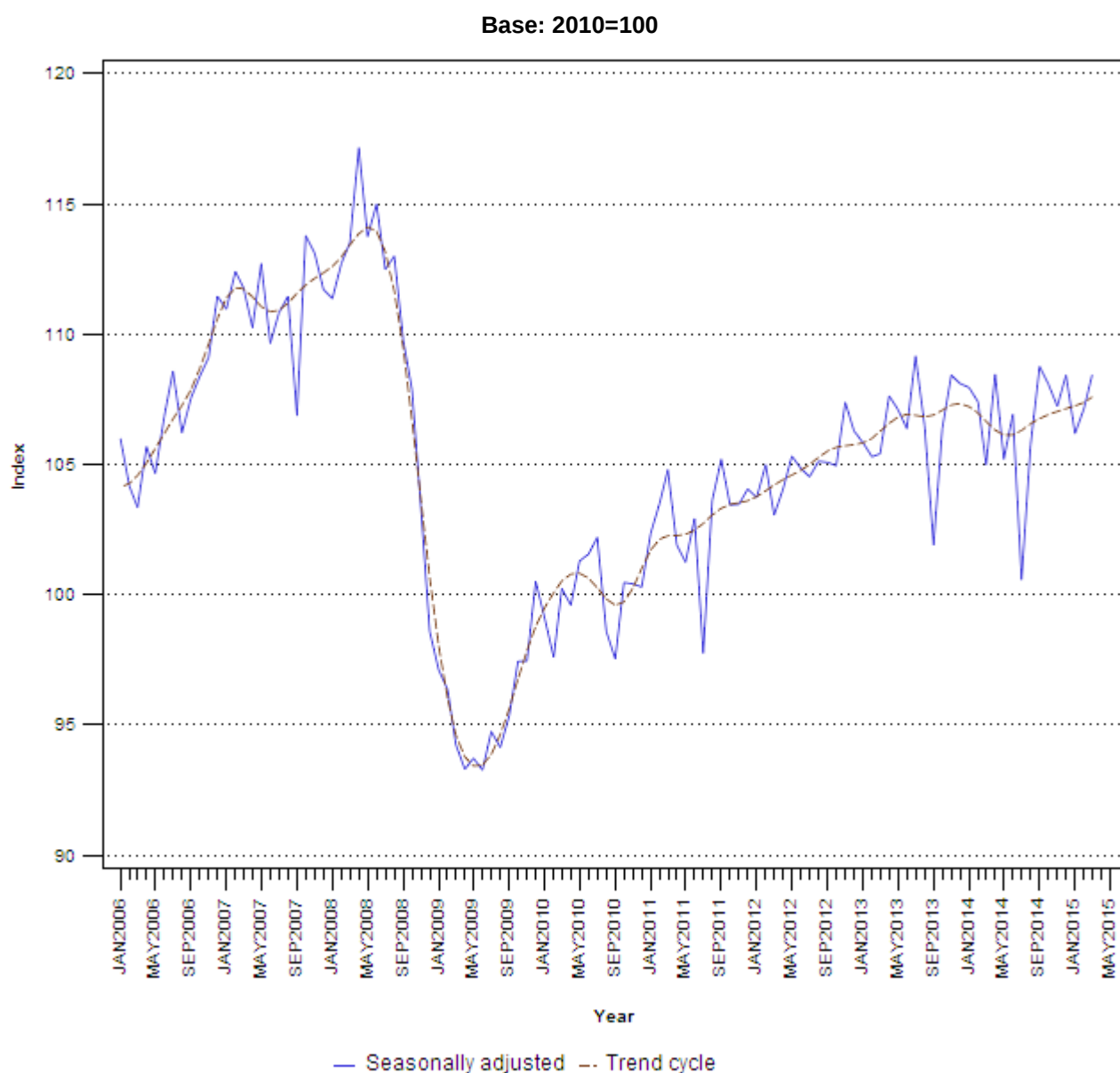
The largest negative contributions to the decrease of 0,6% were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-2,6% and contributing -0,6 of a percentage point);
- radio, television and communication apparatus and professional equipment (-22,0% and contributing -0,4 of a percentage point); and
- wood and wood products, paper, publishing and printing (-2,8% and contributing -0,4 of a percentage point) (see Table B).

Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production**Base: 2010=100**

Manufacturing divisions and major groups	Weights 2012	Average seasonally adjusted production index for October to December 2014	Average seasonally adjusted production index for January to March 2015	Quarterly % change of January to March 2015 compared with the preceding three months	Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/
Food and beverages	24,44	111,5	112,2	0,6	0,2
-Meat, fish, fruit, etc.	5,39	116,3	118,7	2,1	0,1
-Dairy products	1,78	110,6	111,6	0,9	0,0
-Grain mill products	2,86	102,4	103,7	1,3	0,0
-Other food products	7,73	109,3	106,5	-2,6	-0,2
-Beverages	6,68	114,2	117,2	2,6	0,2
Textiles, clothing, leather and footwear	3,17	99,3	98,2	-1,1	0,0
-Textiles	1,21	89,1	89,0	-0,1	0,0
-Wearing apparel	1,29	100,6	97,8	-2,8	0,0
-Leather and leather products	0,28	123,6	121,9	-1,4	0,0
-Footwear	0,39	106,3	107,9	1,5	0,0
Wood and wood products, paper, publishing and printing	12,65	105,5	102,5	-2,8	-0,4
-Wood and products of wood	4,38	105,3	109,4	3,9	0,2
-Paper and paper products	4,89	106,1	100,2	-5,6	-0,3
-Publishing and printing	3,38	102,1	93,7	-8,2	-0,3
Petroleum, chemical products, rubber and plastic products	22,13	111,5	108,6	-2,6	-0,6
-Coke, petroleum products and nuclear fuel	7,77	107,1	104,8	-2,1	-0,2
-Basic chemicals	3,81	119,8	110,3	-7,9	-0,3
-Other chemical products	6,49	116,4	117,3	0,8	0,1
-Rubber products	1,00	108,7	98,4	-9,5	-0,1
-Plastic products	3,06	102,7	101,3	-1,4	0,0
Glass and non-metallic mineral products	3,91	96,4	97,5	1,1	0,0
-Glass and glass products	0,78	89,7	92,4	3,0	0,0
-Non-metallic mineral products	3,13	98,0	98,8	0,8	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	103,8	105,9	2,0	0,4
-Basic iron and steel products	3,38	98,0	102,1	4,2	0,1
-Non-ferrous metal products	3,18	99,8	97,5	-2,3	-0,1
-Fabricated metal products	6,29	107,1	109,3	2,1	0,1
-Machinery and equipment	6,74	102,3	105,0	2,6	0,2
Electrical machinery	1,70	105,8	104,5	-1,2	0,0
Radio, television and communication apparatus and professional equipment	1,41	146,8	114,5	-22,0	-0,4
-Radio, television and communication apparatus	0,90	171,5	118,5	-30,9	-0,4
-Professional equipment	0,51	102,7	107,3	4,5	0,0
Motor vehicles, parts and accessories and other transport equipment	7,39	109,1	113,8	4,3	0,3
-Motor vehicles	2,98	131,9	137,6	4,3	0,2
-Bodies for motor vehicles, trailers and semi-trailers	0,43	107,1	119,5	11,6	0,0
-Parts and accessories	2,77	88,6	94,1	6,2	0,1
-Other transport equipment	1,21	100,8	98,4	-2,4	0,0
Furniture and other manufacturing division	3,61	96,0	93,1	-3,0	-0,1
-Furniture	1,08	109,6	110,3	0,6	0,0
-Other manufacturing groups	2,53	90,2	85,7	-5,0	-0,1
Total	100,00	107,9	107,3	-0,6	-0,6

1/ The contribution (percentage points) of a major group or division to the total seasonally adjusted manufacturing production is calculated by multiplying the difference in the index of the major group or division by the weight of the major group or division and then dividing by the previous period total manufacturing index.
Figures have been rounded off.

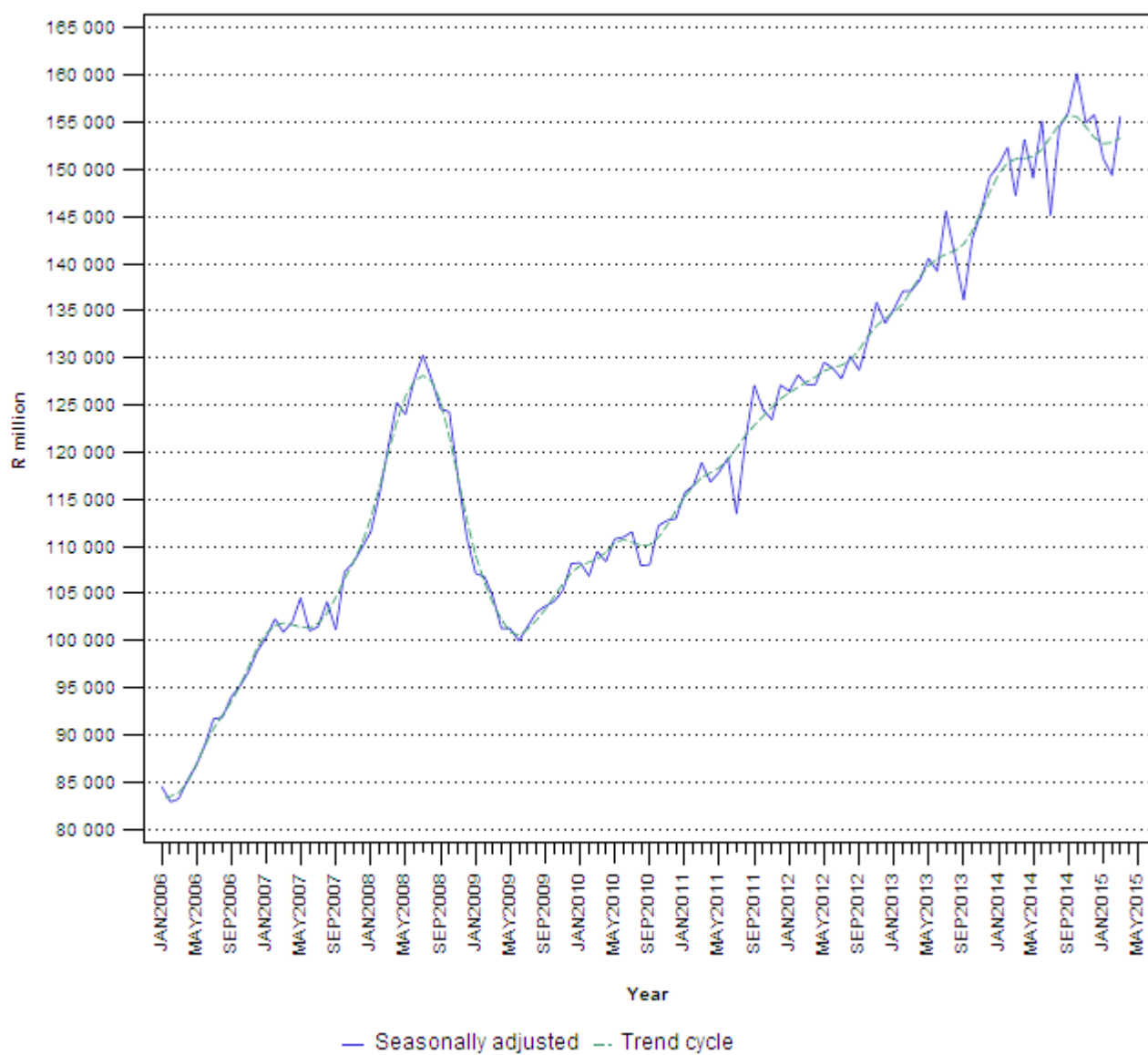
Figure 1 – Index of the physical volume of manufacturing production: 2006 – 2015

Seasonally adjusted sales of manufactured products (at current prices) decreased by 3,1% (-R14 752 million) in the first quarter of 2015 compared with the fourth quarter of 2014.

The petroleum, chemical products, rubber and plastic products division (-10,3% or -R11 901 million) was mainly responsible for the decrease in total manufacturing sales (see Table C).

Table C – Contribution of manufacturing divisions and major groups to the three-monthly total seasonally adjusted sales of the manufacturing industry at current prices

Manufacturing divisions and major groups	Seasonally adjusted sales October to December 2014	Seasonally adjusted sales January to March 2015	% change between October to December 2014 and January to March 2015	Difference in seasonally adjusted sales of manufacturing divisions between October to December 2014 and January to March 2015
	R'000	R'000	%	R'000
Food and beverages	99 784 344	101 463 754	1,7	1 679 410
-Food and food products	72 267 168	73 252 072	1,4	984 904
-Beverages	27 517 176	28 211 681	2,5	694 505
Textiles, clothing, leather and footwear	12 714 558	12 405 285	-2,4	-309 273
-Textiles	4 763 565	4 729 427	-0,7	-34 138
-Wearing apparel	5 046 523	4 850 494	-3,9	-196 029
-Leather and leather products	1 666 437	1 671 533	0,3	5 096
-Footwear	1 238 033	1 153 831	-6,8	-84 202
Wood and wood products, paper, publishing and printing	34 933 320	34 100 123	-2,4	-833 197
-Wood and products of wood	7 279 122	7 661 428	5,3	382 306
-Paper and paper products	15 935 437	15 683 133	-1,6	-252 304
-Publishing and printing	11 718 761	10 755 563	-8,2	-963 198
Petroleum, chemical products, rubber and plastic products	116 017 364	104 116 828	-10,3	-11 900 536
-Coke, petroleum products and nuclear fuel	47 890 228	39 290 585	-18,0	-8 599 643
-Basic chemicals	24 490 683	21 160 067	-13,6	-3 330 616
-Other chemical products	25 927 068	26 656 188	2,8	729 120
-Rubber products	4 322 632	3 947 090	-8,7	-375 542
-Plastic products	13 386 753	13 062 898	-2,4	-323 855
Glass and non-metallic mineral products	13 656 926	13 710 566	0,4	53 640
-Glass and glass products	2 337 847	2 374 273	1,6	36 426
-Non-metallic mineral products	11 319 079	11 336 293	0,2	17 214
Basic iron and steel, non-ferrous metal products, metal products and machinery	101 862 355	101 581 178	-0,3	-281 177
-Basic iron and steel products	31 306 461	31 294 717	0,0	-11 744
-Non-ferrous metal products	22 558 309	21 988 596	-2,5	-569 713
-Fabricated metal products	23 958 827	24 345 172	1,6	386 345
-Machinery and equipment	24 038 758	23 952 692	-0,4	-86 066
Electrical machinery	14 202 661	13 797 130	-2,9	-405 531
Radio, television and communication apparatus and professional equipment	5 325 049	4 488 417	-15,7	-836 632
-Radio, television and communication apparatus	3 319 476	2 405 122	-27,5	-914 354
-Professional equipment	2 005 573	2 083 295	3,9	77 722
Motor vehicles, parts and accessories and other transport equipment	57 096 322	55 809 675	-2,3	-1 286 647
-Motor vehicles, trailers, parts and accessories	51 538 561	50 212 751	-2,6	-1 325 810
-Other transport equipment	5 557 762	5 596 925	0,7	39 163
Furniture and other manufacturing division	15 354 066	14 721 992	-4,1	-632 074
-Furniture	3 871 279	4 049 004	4,6	177 725
-Other manufacturing groups	11 482 786	10 672 989	-7,1	-809 797
Total	470 946 964	456 194 948	-3,1	-14 752 016

Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2015

PJ Lehohla
Statistician-General

Detailed results

Table 1 – Total index of the physical volume of manufacturing production: 2009 – 2015

Base: 2010=100

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

1/ Preliminary.

Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2009 – 2015

2/

Month	2009	2010	2011	2012	2013	2014	2015
Jan	-14,8	2,2	2,6	2,5	3,7	2,4	-2,4
Feb	-16,7	1,2	6,7	3,9	-2,1	2,0	-0,4
Mar	-13,7	6,4	5,3	-2,8	-1,4	1,4	3,8
Apr	-23,2	7,9	0,0	1,9	6,9	-1,3	
May	-18,4	6,8	1,0	5,2	1,9	-3,1	
Jun	-18,3	8,9	1,3	0,7	0,3	1,0	
Jul	-15,3	7,2	-6,1	7,3	5,3	-7,3	
Aug	-16,8	5,5	6,1	2,0	0,4	-1,7	
Sep	-12,7	2,3	8,0	-2,4	-2,2	7,3	
Oct	-10,3	1,8	2,4	3,4	1,9	1,9	
Nov	-5,1	4,0	3,9	3,8	0,0	-2,0	
Dec	3,4	2,0	2,7	1,8	3,0	1,4	
Year	-13,8	4,6	2,8	2,2	1,3	0,1	

2/ The annual percentage change is the change in the index of the physical volume of manufacturing production of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

Table 3 – Seasonally adjusted index of the total physical volume of manufacturing production: 2009 – 2015

Base: 2010=100

Month	2009	2010	2011	2012	2013	2014	2015
Jan	97,1	99,1	102,4	103,7	105,8	108,0	106,2
Feb	96,3	97,6	103,5	105,0	105,3	107,4	107,1
Mar	94,2	100,2	104,8	103,0	105,4	105,0	108,4
Apr	93,3	99,6	101,9	104,1	107,6	108,5	
May	93,7	101,3	101,2	105,3	107,1	105,2	
Jun	93,3	101,6	102,9	104,8	106,4	106,9	
Jul	94,7	102,2	97,8	104,5	109,2	100,6	
Aug	94,1	98,6	103,6	105,1	106,5	105,7	
Sep	95,4	97,5	105,2	105,1	101,9	108,8	
Oct	97,4	100,5	103,4	104,9	106,4	108,1	
Nov	97,4	100,4	103,5	107,4	108,4	107,2	
Dec	100,5	100,3	104,1	106,3	108,1	108,4	

Table 4a – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups**Base: 2010=100**

Manufacturing divisions and major groups	Weights 2012	Average for 2014	Actual indices			Seasonally adjusted indices		
			March 2014	1/ February 2015	1/ March 2015	March 2014	February 2015	March 2015
Food and beverages	24,44	110,3	101,8	101,0	110,1	107,3	112,9	113,1
-Meat, fish, fruit, etc.	5,39	115,2	112,2	107,1	128,3	106,9	117,9	120,0
-Dairy products	1,78	107,4	104,8	98,0	110,3	106,8	107,6	111,3
-Grain mill products	2,86	105,2	104,7	92,8	107,2	102,4	103,8	103,4
-Other food products	7,73	106,8	92,9	91,7	94,2	109,3	112,6	108,0
-Beverages	6,68	113,3	101,6	111,2	115,1	107,7	114,6	118,1
Textiles, clothing, leather and footwear	3,17	97,1	98,2	99,3	103,1	95,5	97,0	99,8
-Textiles	0,74	82,0	79,4	92,3	97,4	77,5	82,8	90,8
-Other textile products	0,47	96,0	98,5	98,9	94,9	94,3	95,3	93,0
-Knitted, crocheted articles	0,10	56,9	70,3	55,7	61,7	59,1	50,8	52,2
-Wearing apparel	1,19	101,5	102,8	98,1	109,2	99,3	100,9	105,6
-Leather and leather products	0,28	123,1	140,0	129,0	130,7	131,0	122,3	122,3
-Footwear	0,39	105,0	97,1	106,0	95,4	102,7	107,3	103,3
Wood and wood products, paper, publishing and printing	12,65	104,2	108,0	97,1	106,2	105,6	102,9	104,1
-Sawmilling and planing of wood	1,83	114,1	120,8	129,3	130,2	116,6	130,5	123,8
-Products of wood	2,55	100,4	98,9	96,5	107,6	96,9	100,8	105,2
-Paper and paper products	4,89	103,7	112,8	92,8	104,8	107,9	100,3	100,1
-Publishing	1,51	106,3	111,4	87,3	96,6	113,2	99,1	99,7
-Printing, recorded media	1,87	99,5	92,3	85,7	91,9	94,4	88,7	97,3
Petroleum, chemical products, rubber and plastic products	22,13	108,1	104,6	102,4	110,4	103,5	107,1	109,0
-Coke, petroleum products and nuclear fuel	7,77	102,5	95,6	96,1	99,6	96,4	104,9	101,3
-Basic chemicals	3,81	115,4	111,2	97,1	118,1	114,5	105,0	118,3
-Other chemical products	6,49	113,0	109,6	115,3	120,7	107,5	116,7	116,5
-Rubber products	1,00	105,2	128,3	102,2	115,3	105,9	91,1	103,7
-Plastic products	3,06	104,0	100,9	97,4	105,0	98,6	100,2	102,7
Glass and non-metallic mineral products	3,91	99,4	97,3	92,7	97,2	98,9	100,7	97,3
-Glass and glass products	0,78	89,8	80,8	87,5	83,4	90,5	92,0	93,4
-Non-metallic mineral products	3,13	101,7	101,4	94,0	100,6	100,9	102,8	98,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	103,8	112,4	102,8	113,7	105,2	105,8	106,9
-Basic iron and steel products	3,38	94,6	92,9	97,9	101,5	89,7	101,7	98,5
-Non-ferrous metal products	3,18	103,9	111,8	93,2	102,1	107,9	97,9	98,1
-Structural metal products	1,89	82,3	88,8	84,5	92,0	85,0	81,7	90,6
-Other fabricated metal products	4,40	120,5	125,7	123,5	133,0	121,5	123,8	128,4
-General purpose machinery	2,44	88,2	96,4	82,9	90,6	92,7	87,3	86,9
-Special purpose machinery	3,44	111,3	132,9	111,4	136,2	112,3	117,7	115,2
-Household appliances	0,86	114,8	138,4	115,0	130,3	124,3	116,7	122,0
Electrical machinery	1,70	102,3	116,1	100,9	114,6	105,6	104,3	103,5
Radio, television and communication apparatus and professional equipment	1,41	141,5	141,7	117,6	127,1	145,2	113,6	128,5
-Radio, television and communication apparatus	0,90	163,7	155,4	125,1	127,5	166,7	117,3	136,5
-Professional equipment	0,51	101,8	117,2	104,1	126,4	106,9	106,9	114,4
Motor vehicles, parts and accessories and other transport equipment	7,39	107,8	109,0	112,2	123,5	103,5	113,2	117,3
-Motor vehicles	2,98	128,6	118,3	137,2	144,8	116,2	137,1	138,3
-Bodies for motor vehicles, trailers and semi-trailers	0,43	107,2	107,4	116,4	129,9	107,1	117,3	126,6
-Parts and accessories	2,77	90,8	99,6	92,6	101,4	93,6	92,4	97,3
-Other transport equipment	1,21	95,5	108,1	94,1	119,5	93,4	100,3	108,0
Furniture and other manufacturing division	3,61	98,6	97,7	95,9	88,7	96,8	92,7	92,8
-Furniture	1,08	113,2	102,5	100,3	96,6	115,2	108,8	108,5
-Other manufacturing groups	2,53	92,3	95,6	94,0	85,4	89,0	85,8	86,0
Total	100,00	106,6	106,2	101,7	110,2	105,0	107,1	108,4

1/ Preliminary.

Table 4b – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups (concluded)**Base: 2010=100**

Manufacturing divisions and major groups	Weights 2012	Average for 2014	Actual indices			Seasonally adjusted indices		
			March 2014	1/ March 2015	% change between March 2014 and March 2015	February 2015	March 2015	% change between February and March 2015
Food and beverages	24,44	110,3	101,8	110,1	8,2	112,9	113,1	0,2
-Meat, fish, fruit, etc.	5,39	115,2	112,2	128,3	14,3	117,9	120,0	1,8
-Dairy products	1,78	107,4	104,8	110,3	5,2	107,6	111,3	3,4
-Grain mill products	2,86	105,2	104,7	107,2	2,4	103,8	103,4	-0,4
-Other food products	7,73	106,8	92,9	94,2	1,4	112,6	108,0	-4,1
-Beverages	6,68	113,3	101,6	115,1	13,3	114,6	118,1	3,1
Textiles, clothing, leather and footwear	3,17	97,1	98,2	103,1	5,0	97,0	99,8	2,9
-Textiles	0,74	82,0	79,4	97,4	22,7	82,8	90,8	9,7
-Other textile products	0,47	96,0	98,5	94,9	-3,7	95,3	93,0	-2,4
-Knitted, crocheted articles	0,10	56,9	70,3	61,7	-12,2	50,8	52,2	2,8
-Wearing apparel	1,19	101,5	102,8	109,2	6,2	100,9	105,6	4,7
-Leather and leather products	0,28	123,1	140,0	130,7	-6,6	122,3	122,3	0,0
-Footwear	0,39	105,0	97,1	95,4	-1,8	107,3	103,3	-3,7
Wood and wood products, paper, publishing and printing	12,65	104,2	108,0	106,2	-1,7	102,9	104,1	1,2
-Sawmilling and planing of wood	1,83	114,1	120,8	130,2	7,8	130,5	123,8	-5,1
-Products of wood	2,55	100,4	98,9	107,6	8,8	100,8	105,2	4,4
-Paper and paper products	4,89	103,7	112,8	104,8	-7,1	100,3	100,1	-0,2
-Publishing	1,51	106,3	111,4	96,6	-13,3	99,1	99,7	0,6
-Printing, recorded media	1,87	99,5	92,3	91,9	-0,4	88,7	97,3	9,7
Petroleum, chemical products, rubber and plastic products	22,13	108,1	104,6	110,4	5,5	107,1	109,0	1,8
-Coke, petroleum products and nuclear fuel	7,77	102,5	95,6	99,6	4,2	104,9	101,3	-3,4
-Basic chemicals	3,81	115,4	111,2	118,1	6,2	105,0	118,3	12,7
-Other chemical products	6,49	113,0	109,6	120,7	10,1	116,7	116,5	-0,2
-Rubber products	1,00	105,2	128,3	115,3	-10,1	91,1	103,7	13,8
-Plastic products	3,06	104,0	100,9	105,0	4,1	100,2	102,7	2,5
Glass and non-metallic mineral products	3,91	99,4	97,3	97,2	-0,1	100,7	97,3	-3,4
-Glass and glass products	0,78	89,8	80,8	83,4	3,2	92,0	93,4	1,5
-Non-metallic mineral products	3,13	101,7	101,4	100,6	-0,8	102,8	98,3	-4,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	103,8	112,4	113,7	1,2	105,8	106,9	1,0
-Basic iron and steel products	3,38	94,6	92,9	101,5	9,3	101,7	98,5	-3,1
-Non-ferrous metal products	3,18	103,9	111,8	102,1	-8,7	97,9	98,1	0,2
-Structural metal products	1,89	82,3	88,8	92,0	3,6	81,7	90,6	10,9
-Other fabricated metal products	4,40	120,5	125,7	133,0	5,8	123,8	128,4	3,7
-General purpose machinery	2,44	88,2	96,4	90,6	-6,0	87,3	86,9	-0,5
-Special purpose machinery	3,44	111,3	132,9	136,2	2,5	117,7	115,2	-2,1
-Household appliances	0,86	114,8	138,4	130,3	-5,9	116,7	122,0	4,5
Electrical machinery	1,70	102,3	116,1	114,6	-1,3	104,3	103,5	-0,8
Radio, television and communication apparatus and professional equipment	1,41	141,5	141,7	127,1	-10,3	113,6	128,5	13,1
-Radio, television and communication apparatus	0,90	163,7	155,4	127,5	-18,0	117,3	136,5	16,4
-Professional equipment	0,51	101,8	117,2	126,4	7,8	106,9	114,4	7,0
Motor vehicles, parts and accessories and other transport equipment	7,39	107,8	109,0	123,5	13,3	113,2	117,3	3,6
-Motor vehicles	2,98	128,6	118,3	144,8	22,4	137,1	138,3	0,9
-Bodies for motor vehicles, trailers and semi-trailers	0,43	107,2	107,4	129,9	20,9	117,3	126,6	7,9
-Parts and accessories	2,77	90,8	99,6	101,4	1,8	92,4	97,3	5,3
-Other transport equipment	1,21	95,5	108,1	119,5	10,5	100,3	108,0	7,7
Furniture and other manufacturing division	3,61	98,6	97,7	88,7	-9,2	92,7	92,8	0,1
-Furniture	1,08	113,2	102,5	96,6	-5,8	108,8	108,5	-0,3
-Other manufacturing groups	2,53	92,3	95,6	85,4	-10,7	85,8	86,0	0,2
Total	100,00	106,6	106,2	110,2	3,8	107,1	108,4	1,2

1/ Preliminary.

Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2009 – 2015

Month	2009	2010	2011	2012	2013	2014	2015
Jan	89 411 709	90 043 639	95 914 260	107 125 725	116 496 690	130 317 527	1/ 129 382 598
Feb	101 389 780	101 802 931	111 504 610	125 726 110	131 666 953	146 262 502	1/ 143 155 413
Mar	109 741 940	115 312 858	126 114 741	133 201 183	137 659 315	151 399 659	1/ 160 977 525
Apr	93 988 030	101 813 278	108 002 905	117 398 378	133 362 802	143 701 281	
May	100 539 504	109 347 265	117 550 156	130 161 819	141 170 742	148 218 032	
Jun	102 182 642	113 714 894	122 066 418	130 686 381	139 191 581	156 152 997	
Jul	103 852 587	112 863 459	112 900 609	127 523 717	146 281 118	146 085 440	
Aug	104 831 059	110 602 573	124 733 688	134 271 194	143 904 416	156 424 723	
Sep	109 100 206	113 246 712	133 013 706	131 703 059	140 281 228	162 202 124	
Oct	114 516 711	121 671 719	133 668 047	144 305 886	156 176 718	175 256 749	
Nov	116 693 241	126 495 305	139 068 350	153 074 012	162 115 203	170 419 049	
Dec	99 259 368	104 538 782	117 666 432	123 592 966	140 400 601	147 994 581	
Year	1 245 506 777	1 321 453 415	1 442 203 922	1 558 770 430	1 688 707 367	1 834 434 664	

1/ Preliminary.

Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2009 – 2015

Month	2009	2010	2011	2012	2013	2014	2015
Jan	-5,6	0,7	6,5	11,7	8,7	11,9	-0,7
Feb	-10,0	0,4	9,5	12,8	4,7	11,1	-2,1
Mar	-8,3	5,1	9,4	5,6	3,3	10,0	6,3
Apr	-22,7	8,3	6,1	8,7	13,6	7,8	
May	-19,5	8,8	7,5	10,7	8,5	5,0	
Jun	-21,2	11,3	7,3	7,1	6,5	12,2	
Jul	-22,2	8,7	0,0	13,0	14,7	-0,1	
Aug	-20,2	5,5	12,8	7,6	7,2	8,7	
Sep	-16,6	3,8	17,5	-1,0	6,5	15,6	
Oct	-16,8	6,2	9,9	8,0	8,2	12,2	
Nov	-9,0	8,4	9,9	10,1	5,9	5,1	
Dec	-1,7	5,3	12,6	5,0	13,6	5,4	
Year	-15,0	6,1	9,1	8,1	8,3	8,6	

2/ The annual percentage change is the change in the sales of the manufacturing industry of the relevant month of the current year compared with the sales of the corresponding month of the previous year expressed as a percentage.

Table 7 – Total seasonally adjusted sales of the manufacturing industry at current prices (R'000): 2009 – 2015

Month	2009	2010	2011	2012	2013	2014	2015
Jan	107 116 256	108 271 537	115 676 415	126 474 226	135 231 763	150 450 655	151 163 041
Feb	106 764 001	106 829 747	116 483 967	128 188 261	137 095 090	152 318 401	149 385 704
Mar	104 788 890	109 466 726	118 865 268	127 164 428	137 101 299	147 229 311	155 646 200
Apr	101 275 728	108 376 149	116 827 428	127 157 770	138 262 145	153 172 641	
May	101 289 827	110 759 130	117 870 892	129 519 856	140 539 123	149 078 938	
Jun	99 955 331	110 963 842	119 370 051	128 910 235	139 192 108	155 139 351	
Jul	101 464 150	111 534 692	113 461 858	127 788 437	145 583 685	145 154 972	
Aug	102 982 050	107 949 618	121 166 727	130 180 603	140 874 972	154 488 018	
Sep	103 643 550	108 052 697	127 083 345	128 697 692	136 145 423	156 046 161	
Oct	104 121 589	112 182 226	124 541 124	131 944 004	142 670 417	160 189 524	
Nov	105 264 946	112 746 219	123 420 125	135 885 237	145 535 384	154 941 559	
Dec	108 158 359	112 926 881	127 101 616	133 674 678	149 210 771	155 815 880	

Table 8a – Estimated sales of the manufacturing industry at current prices according to manufacturing divisions and major groups (R'000)

Manufacturing divisions and major groups	Year 2014	Actual values			Seasonally adjusted values		
		March 2014	1/ February 2015	1/ March 2015	March 2014	February 2015	March 2015
Food and beverages	391 872 556	30 286 833	30 802 864	34 237 304	31 275 072	33 243 909	34 355 540
-Meat, fish, fruit, etc.	105 017 475	8 308 780	7 997 421	9 849 842	8 090 111	9 060 818	9 370 924
-Dairy products	34 033 139	2 674 932	2 676 370	3 050 397	2 679 202	2 901 651	2 997 865
-Grain mill products	64 105 154	5 369 959	4 676 865	5 488 370	5 245 688	5 216 882	5 294 100
-Other food products	81 559 806	5 956 694	6 660 718	6 232 500	6 746 988	7 141 526	6 909 815
-Beverages	107 156 982	7 976 468	8 791 490	9 616 195	8 513 081	8 923 031	9 782 834
Textiles, clothing, leather and footwear	49 328 204	4 205 167	3 987 596	4 393 070	4 011 336	4 051 468	4 196 700
-Textiles	6 299 748	533 352	554 579	614 568	484 847	526 330	545 875
-Other textile products	12 250 299	989 924	1 017 604	1 076 972	976 193	1 011 952	1 050 858
-Knitted, crocheted articles	2 377 787	255 213	200 732	215 270	214 904	192 087	190 668
-Wearing apparel	17 006 477	1 430 980	1 276 025	1 555 491	1 376 713	1 358 923	1 489 751
-Leather and leather products	6 637 099	628 760	602 695	573 071	584 620	577 784	550 099
-Footwear	4 756 794	366 938	335 961	357 698	374 058	384 388	369 447
Wood and wood products, paper, publishing and printing	135 264 401	11 489 809	10 803 561	12 023 602	11 159 891	11 433 778	11 583 997
-Sawmilling and planing of wood	10 531 005	972 786	1 024 155	1 073 697	886 227	1 026 922	1 020 290
-Products of wood	18 266 905	1 447 056	1 453 523	1 663 270	1 433 077	1 535 561	1 598 783
-Paper and paper products	60 931 868	5 299 040	4 911 523	5 610 674	5 045 914	5 265 886	5 254 607
-Publishing	20 066 195	1 742 759	1 484 343	1 594 161	1 750 419	1 607 912	1 616 417
-Printing, recorded media	25 468 428	2 028 168	1 930 017	2 081 800	2 044 251	1 997 496	2 093 898
Petroleum, chemical products, rubber and plastic products	452 163 910	36 196 337	31 175 713	35 923 397	36 036 178	34 135 616	35 659 577
-Coke, petroleum products and nuclear fuel	186 481 975	15 161 258	11 436 566	13 489 605	15 393 315	13 011 820	13 816 950
-Basic chemicals	96 414 360	7 212 556	5 982 829	7 003 088	7 264 199	6 600 962	7 087 192
-Other chemical products	99 738 691	8 029 732	8 276 599	9 470 464	7 815 914	8 840 490	9 006 303
-Rubber products	16 956 761	1 703 010	1 379 531	1 568 275	1 447 650	1 324 385	1 373 116
-Plastic products	52 572 123	4 089 781	4 100 188	4 391 965	4 115 098	4 357 957	4 376 013
Glass and non-metallic mineral products	55 423 709	4 303 266	4 366 694	4 701 411	4 349 767	4 617 566	4 603 870
-Glass and glass products	9 305 728	626 359	735 882	695 269	753 524	785 549	807 112
-Non-metallic mineral products	46 117 981	3 676 907	3 630 812	4 006 142	3 596 243	3 832 016	3 796 757
Basic iron and steel, non-ferrous metal products, metal products and machinery	395 312 268	34 160 795	32 660 856	37 350 186	32 127 428	32 986 960	35 095 690
-Basic iron and steel products	121 988 751	10 292 894	9 650 574	11 630 942	9 791 760	9 428 863	11 071 488
-Non-ferrous metal products	87 121 151	7 003 358	7 099 161	7 499 262	6 966 539	7 321 546	7 482 909
-Structural metal products	32 806 793	2 960 494	2 927 351	3 319 269	2 734 552	2 826 877	3 140 459
-Other fabricated metal products	60 262 135	4 994 082	5 121 314	5 759 346	4 786 438	5 229 970	5 407 304
-General purpose machinery	33 776 613	3 087 487	2 732 948	2 892 504	2 984 065	2 877 522	2 792 621
-Special purpose machinery	49 171 560	4 815 715	4 146 459	5 202 654	3 983 591	4 323 425	4 258 500
-Household appliances	10 185 265	1 006 765	983 049	1 046 209	880 480	978 753	942 405
Electrical machinery	52 900 401	4 757 317	4 669 217	5 126 487	4 315 513	4 565 604	4 628 972
Radio, television and communication apparatus and professional equipment	20 551 669	1 774 088	1 453 557	1 665 976	1 769 603	1 468 037	1 637 166
-Radio, television and communication apparatus	12 655 287	1 035 219	801 377	876 282	1 101 285	777 888	928 894
-Professional equipment	7 896 382	738 869	652 180	789 694	668 318	690 148	708 272
Motor vehicles, parts and accessories and other transport equipment	221 207 072	19 368 452	18 364 777	20 850 064	17 272 475	18 027 478	18 999 649
-Motor vehicles	125 897 542	11 225 623	10 032 522	11 546 197	9 906 617	9 719 927	10 600 850
-Bodies for motor vehicles, trailers and semi-trailers	9 108 576	768 884	805 089	880 292	749 886	825 112	851 662
-Parts and accessories	64 796 794	5 358 691	5 750 256	6 126 524	4 890 363	5 592 664	5 487 554
-Other transport equipment	21 404 160	2 015 254	1 776 910	2 297 051	1 725 607	1 889 773	2 059 582
Furniture and other manufacturing division	60 410 474	4 857 595	4 870 578	4 706 028	4 912 043	4 855 284	4 885 034
-Furniture	15 470 377	1 117 339	1 196 572	1 213 269	1 249 662	1 323 532	1 365 893
-Other manufacturing groups	44 940 097	3 740 256	3 674 006	3 492 759	3 662 382	3 531 753	3 519 142
Total	1 834 434 664	151 399 659	143 155 413	160 977 525	147 229 311	149 385 704	155 646 200

1/ Preliminary.

Table 8b – Estimated sales of the manufacturing industry at current prices according to manufacturing divisions and major groups (R'000) (concluded)

Manufacturing divisions and major groups	Year 2014	Actual values			Seasonally adjusted values		
		March 2014	1/ March 2015	% change between March 2014 and March 2015	February 2015	March 2015	% change between February and March 2015
Food and beverages	391 872 556	30 286 833	34 237 304	13,0	33 243 909	34 355 540	3,3
-Meat, fish, fruit, etc.	105 017 475	8 308 780	9 849 842	18,5	9 060 818	9 370 924	3,4
-Dairy products	34 033 139	2 674 932	3 050 397	14,0	2 901 651	2 997 865	3,3
-Grain mill products	64 105 154	5 369 959	5 488 370	2,2	5 216 882	5 294 100	1,5
-Other food products	81 559 806	5 956 694	6 232 500	4,6	7 141 526	6 909 815	-3,2
-Beverages	107 156 982	7 976 468	9 616 195	20,6	8 923 031	9 782 834	9,6
Textiles, clothing, leather and footwear	49 328 204	4 205 167	4 393 070	4,5	4 051 468	4 196 700	3,6
-Textiles	6 299 748	533 352	614 568	15,2	526 330	545 875	3,7
-Other textile products	12 250 299	989 924	1 076 972	8,8	1 011 952	1 050 858	3,8
-Knitted, crocheted articles	2 377 787	255 213	215 270	-15,7	192 087	190 668	-0,7
-Wearing apparel	17 006 477	1 430 980	1 555 491	8,7	1 358 923	1 489 751	9,6
-Leather and leather products	6 637 099	628 760	573 071	-8,9	577 784	550 099	-4,8
-Footwear	4 756 794	366 938	357 698	-2,5	384 388	369 447	-3,9
Wood and wood products, paper, publishing and printing	135 264 401	11 489 809	12 023 602	4,6	11 433 778	11 583 997	1,3
-Sawmilling and planing of wood	10 531 005	972 786	1 073 697	10,4	1 026 922	1 020 290	-0,6
-Products of wood	18 266 905	1 447 056	1 663 270	14,9	1 535 561	1 598 783	4,1
-Paper and paper products	60 931 868	5 299 040	5 610 674	5,9	5 265 886	5 254 607	-0,2
-Publishing	20 066 195	1 742 759	1 594 161	-8,5	1 607 912	1 616 417	0,5
-Printing, recorded media	25 468 428	2 028 168	2 081 800	2,6	1 997 496	2 093 898	4,8
Petroleum, chemical products, rubber and plastic products	452 163 910	36 196 337	35 923 397	-0,8	34 135 616	35 659 577	4,5
-Coke, petroleum products and nuclear fuel	186 481 975	15 161 258	13 489 605	-11,0	13 011 820	13 816 950	6,2
-Basic chemicals	96 414 360	7 212 556	7 003 088	-2,9	6 600 962	7 087 192	7,4
-Other chemical products	99 738 691	8 029 732	9 470 464	17,9	8 840 490	9 006 303	1,9
-Rubber products	16 956 761	1 703 010	1 568 275	-7,9	1 324 385	1 373 116	3,7
-Plastic products	52 572 123	4 089 781	4 391 965	7,4	4 357 957	4 376 013	0,4
Glass and non-metallic mineral products	55 423 709	4 303 266	4 701 411	9,3	4 617 566	4 603 870	-0,3
-Glass and glass products	9 305 728	626 359	695 269	11,0	785 549	807 112	2,7
-Non-metallic mineral products	46 117 981	3 676 907	4 006 142	9,0	3 832 016	3 796 757	-0,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	395 312 268	34 160 795	37 350 186	9,3	32 986 960	35 095 690	6,4
-Basic iron and steel products	121 988 751	10 292 894	11 630 942	13,0	9 428 863	11 071 488	17,4
-Non-ferrous metal products	87 121 151	7 003 358	7 499 262	7,1	7 321 546	7 482 909	2,2
-Structural metal products	32 806 793	2 960 494	3 319 269	12,1	2 826 877	3 140 459	11,1
-Other fabricated metal products	60 262 135	4 994 082	5 759 346	15,3	5 229 970	5 407 304	3,4
-General purpose machinery	33 776 613	3 087 487	2 892 504	-6,3	2 877 522	2 792 621	-3,0
-Special purpose machinery	49 171 560	4 815 715	5 202 654	8,0	4 323 425	4 258 500	-1,5
-Household appliances	10 185 265	1 006 765	1 046 209	3,9	978 753	942 405	-3,7
Electrical machinery	52 900 401	4 757 317	5 126 487	7,8	4 565 604	4 628 972	1,4
Radio, television and communication apparatus and professional equipment	20 551 669	1 774 088	1 665 976	-6,1	1 468 037	1 637 166	11,5
-Radio, television and communication apparatus	12 655 287	1 035 219	876 282	-15,4	777 888	928 894	19,4
-Professional equipment	7 896 382	738 869	789 694	6,9	690 148	708 272	2,6
Motor vehicles, parts and accessories and other transport equipment	221 207 072	19 368 452	20 850 064	7,6	18 027 478	18 999 649	5,4
-Motor vehicles	125 897 542	11 225 623	11 546 197	2,9	9 719 927	10 600 850	9,1
-Bodies for motor vehicles, trailers and semi-trailers	9 108 576	768 884	880 292	14,5	825 112	851 662	3,2
-Parts and accessories	64 796 794	5 358 691	6 126 524	14,3	5 592 664	5 487 554	-1,9
-Other transport equipment	21 404 160	2 015 254	2 297 051	14,0	1 889 773	2 059 582	9,0
Furniture and other manufacturing division	60 410 474	4 857 595	4 706 028	-3,1	4 855 284	4 885 034	0,6
-Furniture	15 470 377	1 117 339	1 213 269	8,6	1 323 532	1 365 893	3,2
-Other manufacturing groups	44 940 097	3 740 256	3 492 759	-6,6	3 531 753	3 519 142	-0,4
Total	1 834 434 664	151 399 659	160 977 525	6,3	149 385 704	155 646 200	4,2

1/ Preliminary.

Table 9 – Annual percentage change in the three-monthly physical volume of manufacturing production and estimated sales according to manufacturing divisions and major groups

Manufacturing divisions and major groups	Weights 2012	Indices (base: 2010=100)				Value of sales (R million)			
		Jan. to Mar. 2014	Jan. to Mar. 2015	Annual % change between Jan. to Mar. 2014 and Jan. to Mar. 2015	Contribution (% points)	Jan. to Mar. 2014	Jan. to Mar. 2015	Annual % change between Jan. to Mar. 2014 and Jan. to Mar. 2015	Difference in sales between Jan. to Mar. 2014 and Jan. to Mar. 2015
Food and beverages	24,44	99,4	102,2	2,8	0,7	88 303	95 013	7,6	6 710
-Meat, fish, fruit, etc.	5,39	105,5	111,1	5,3	0,3	23 176	25 348	9,4	2 172
-Dairy products	1,78	103,7	109,0	5,1	0,1	7 730	8 796	13,8	1 066
-Grain mill products	2,86	101,0	98,2	-2,8	-0,1	15 257	14 879	-2,5	-378
-Other food products	7,73	87,6	86,3	-1,5	-0,1	18 036	18 961	5,1	925
-Beverages	6,68	106,1	113,3	6,8	0,5	24 103	27 029	12,1	2 926
Textiles, clothing, leather and footwear	3,17	90,6	91,1	0,6	0,0	11 131	11 417	2,6	286
-Textiles	0,74	79,7	84,5	6,0	0,0	1 488	1 590	6,9	102
-Other textile products	0,47	90,0	91,0	1,1	0,0	2 764	2 903	5,0	139
-Knitted, crocheted articles	0,10	60,4	52,4	-13,2	0,0	634	563	-11,2	-71
-Wearing apparel	1,19	92,0	91,0	-1,1	0,0	3 641	3 759	3,2	118
-Leather and leather products	0,28	127,3	122,4	-3,8	0,0	1 688	1 659	-1,7	-29
-Footwear	0,39	89,1	91,2	2,4	0,0	916	943	2,9	27
Wood and wood products, paper, publishing and printing	12,65	98,2	96,9	-1,3	-0,2	31 032	32 258	4,0	1 226
-Sawmilling and planing of wood	1,83	109,9	122,8	11,7	0,2	2 541	2 903	14,2	362
-Products of wood	2,55	92,2	95,4	3,5	0,1	4 082	4 349	6,5	267
-Paper and paper products	4,89	99,6	95,6	-4,0	-0,2	14 057	14 921	6,1	864
-Publishing	1,51	99,6	87,0	-12,7	-0,2	4 669	4 348	-6,9	-321
-Printing, recorded media	1,87	90,2	85,1	-5,7	-0,1	5 684	5 736	0,9	52
Petroleum, chemical products, rubber and plastic products	22,13	104,1	105,1	1,0	0,2	107 580	98 372	-8,6	-9 208
-Coke, petroleum products and nuclear fuel	7,77	100,2	102,5	2,3	0,2	46 313	37 611	-18,8	-8 702
-Basic chemicals	3,81	109,0	105,6	-3,1	-0,1	22 469	19 538	-13,0	-2 931
-Other chemical products	6,49	105,8	112,9	6,7	0,5	22 293	25 090	12,5	2 797
-Rubber products	1,00	119,2	102,7	-13,8	-0,2	4 507	4 039	-10,4	-468
-Plastic products	3,06	99,6	95,4	-4,2	-0,1	11 998	12 093	0,8	95
Glass and non-metallic mineral products	3,91	92,2	88,4	-4,1	-0,1	12 246	12 466	1,8	220
-Glass and glass products	0,78	86,5	83,4	-3,6	0,0	2 020	2 070	2,5	50
-Non-metallic mineral products	3,13	93,7	89,6	-4,4	-0,1	10 226	10 396	1,7	170
Basic iron and steel, non-ferrous metal products, metal products and machinery	19,59	101,6	102,0	0,4	0,1	93 944	98 192	4,5	4 248
-Basic iron and steel products	3,38	92,8	101,7	9,6	0,3	30 187	31 323	3,8	1 136
-Non-ferrous metal products	3,18	107,4	96,5	-10,1	-0,3	20 015	20 935	4,6	920
-Structural metal products	1,89	83,8	79,2	-5,5	-0,1	8 237	8 271	0,4	34
-Other fabricated metal products	4,40	113,9	117,3	3,0	0,1	13 702	14 853	8,4	1 151
-General purpose machinery	2,44	84,9	80,2	-5,5	-0,1	7 896	7 785	-1,4	-111
-Special purpose machinery	3,44	105,5	111,4	5,6	0,2	11 367	12 299	8,2	932
-Household appliances	0,86	122,5	120,1	-2,0	0,0	2 540	2 726	7,3	186
Electrical machinery	1,70	99,9	98,1	-1,8	0,0	12 804	13 255	3,5	451
Radio, television and communication apparatus and professional equipment	1,41	127,2	108,6	-14,6	-0,3	4 691	4 181	-10,9	-510
-Radio, television and communication apparatus	0,90	142,5	112,7	-20,9	-0,3	2 806	2 220	-20,9	-586
-Professional equipment	0,51	99,9	101,3	1,4	0,0	1 885	1 960	4,0	75
Motor vehicles, parts and accessories and other transport equipment	7,39	106,2	110,4	4,0	0,3	52 856	55 055	4,2	2 199
-Motor vehicles	2,98	122,4	133,6	9,2	0,3	30 007	30 271	0,9	264
-Bodies for motor vehicles, trailers and semi-trailers	0,43	97,9	108,5	10,8	0,0	2 007	2 208	10,0	201
-Parts and accessories	2,77	94,6	91,7	-3,1	-0,1	15 531	17 064	9,9	1 533
-Other transport equipment	1,21	96,1	96,7	0,6	0,0	5 311	5 512	3,8	201
Furniture and other manufacturing division	3,61	94,4	86,7	-8,2	-0,3	13 392	13 308	-0,6	-84
-Furniture	1,08	92,3	89,7	-2,8	0,0	3 014	3 272	8,6	258
-Other manufacturing groups	2,53	95,3	85,5	-10,3	-0,2	10 378	10 036	-3,3	-342
Total	100,00	100,9	101,3	0,4	0,4	427 980	433 516	1,3	5 536

1/ The contribution (percentage points) of a major group or division is calculated by multiplying the difference in the index of the major group or division by the weight of the major group or division and then dividing by the previous period total manufacturing index. Figures have been rounded off.

Explanatory notes

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 below). The release contains monthly indices of the physical volume of manufacturing production and monthly value of sales of manufactured products by divisions and major groups within manufacturing. 2 In accordance with international practice, the indices are re-based every five years to a new base year. The 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 for respondents who have not reported by the cut-off date for production of results. These estimates will be revised in future statistical releases when their reported information becomes available. 4 As indicated earlier, Stats SA is continuously upgrading its BR, 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 indices of the physical volume of manufacturing production. These indices provide an indicator of the real level of manufacturing activity in the economy. They are used in monitoring the state of the economy and formulation of economic policy. They are also important inputs to estimation of the gross domestic product (GDP).
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 March 2015 was 88,3%. The improved collection rate for February 2015 was 91,6%.
Statistical unit	10 The statistical unit for which information is compiled and published is the 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.

Survey methodology and design

- 11 The survey is conducted monthly. Questionnaires are sent to a sample of 3 000 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 non-respondents.
- 12 The value of sales of manufactured products is obtained monthly from the sample of 3 000 enterprises, which was drawn in April 2014 from a population then of 45 405 manufacturing enterprises. Each manufacturing major group is divided into four size groups. The sample is drawn at the SIC three-digit level. All large enterprises (size group one), are completely enumerated. Simple random sampling is applied for size group two (medium sized) enterprises, and for size groups three and four (small) 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 groups two, three and four of that major group to reflect the total value of sales of the major group.
- 13 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.
- 14 More direct indicators are used for the value of production of 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 physical 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).

Weighting methodology

- 15 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.
- 16 For indices, a weight is calculated for every major group according to the value added of the major group relative to the total value added of the manufacturing industry as a whole, based on the results of the most recent large sample survey of the manufacturing industry or national accounts value added weights. For the period 2001 to 2004, the weights are based on the 2001 large sample survey of the manufacturing industry (LSS), for the period 2005 to 2009, the weights are based on the 2005 LSS, for the period 2010 the weights are based on national accounts value added data for 2010, for the period 2011 the weights are based on national accounts value added data for 2011 and for the period 2012 to 2015, the weights are based on national accounts value added data of 2012. Weights between LSS / national accounts years are fixed. The production indices of all divisions are multiplied by the applicable weights and aggregated to produce the index for the total physical volume of manufacturing production (see Table F for the fixed weights which were used for the three periods 2010, 2011 and 2012 to 2015).

- Seasonal adjustment** 17 Seasonally adjusted estimates 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 recognised more clearly. 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** 18 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 cycle.
- Reliability of estimates** 19 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.
- 20 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.
- Revised figures** 21 Revised figures are due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures are indicated in the relevant tables. Data are edited at the enterprise level.
- Related publications** 22 Users may also wish to refer to the following publications available from Stats SA:
- *Bulletin of Statistics*, issued quarterly.
 - *South African Statistics*, issued annually.
- Rounding-off of figures** 23 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.
- Symbols and abbreviations** 24
- | | |
|----------|---|
| BR | Business Register |
| GDP | Gross domestic product |
| ISIC | International Standard Industrial Classification |
| LSS | Large sample survey |
| m | Million |
| SIC | Standard Industrial Classification of all Economic Activities |
| SARS | South African Revenue Service |
| Stats SA | Statistics South Africa |
| VAT | Value added tax |
| * | Revised figures |

Technical notes**26 Neyman optimal allocation**

Before drawing a sample in the survey the population of enterprises on the BSF was stratified. Strata were formed using a combination of Standard Industrial Classification variable and the measure of size variable for enterprises. The Neyman optimal allocation formula used to allocate samples to each stratum is given by a formula below.

$$n_h = n * (N_h * S_h) / [\sum (N_i * S_i)].$$

Class limits: Manufacturing (Rand)

Enterprise size	Lower limits	Upper limits
Very small	1 633 746	15 000 000
Small	15 000 001	39 000 000
Medium	39 000 001	153 000 000
Large	153 000 001	

Glossary

Enterprise	An 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.
Index of physical volume of manufacturing production	The index of physical 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 base period is 2010. The production in the base period is set at 100.
Industry	An industry consists of a group 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> , Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).
Intermediate consumption	Intermediate consumption includes: • purchases and transfers-in of materials; • payments to other establishments for work done; • other direct factory costs; • rent and leasing paid; • head office charges; • royalties, copyright, trade names and patent rights paid; • advertising; • insurance premiums; • services; and • secretarial and administrative fees.
Output	Output is the aggregate value of goods manufactured and work done and includes: • sales and transfers-out of own manufactures, factory waste and stocks of factored goods; • repairs; • installation, erection and assembly; • sundry trading revenue; • sales of factored goods minus purchases of factored goods; • rent and leasing received; • royalties received; • difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods; • head office charges; and • other revenue. Output excludes excise and customs duty paid.
Value added	Value added is the value of output less intermediate consumption. It represents the value added to the cost of the materials used in the process of production.
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.
Turnover	Turnover refers to: • the value of sales and transfers out of all own manufactured products/articles; • amounts received for work done; and • amounts received for services rendered.

Turnover excludes:

- value added tax (VAT);
- export freight charges; and
- excise duty.

Weight

The weight of a major group of manufacturing in the overall index for manufacturing is the ratio of the value added of the major group (i.e. output of a major group minus intermediate consumption) to the total value added of the manufacturing industry. The weight reflects the importance of the major group in the total. 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 D – Weights according to manufacturing divisions and major groups

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
Other manufacturing divisions	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

General information

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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Enquiries

Telephone number:	(012) 310 8249 (technical enquiries) (012) 310 8044 (orders) (012) 310 4883/4885/8018 (library)
Fax number:	(012) 310 8664 (technical enquiries)
Email address:	nicolaic@statssa.gov.za (technical enquiries) info@statssa.gov.za (user information services) magdaj@statssa.gov.za (orders)
Postal address:	Private Bag X44, Pretoria, 0001

Produced by Stats SA