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Statistical release

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Key figures for May 2014

Table A – Manufacturing production and sales

Estimates	May 2014	% change between May 2013 and May 2014	% change between March to May 2013 and March to May 2014	% change between January to May 2013 and January to May 2014
Physical volume of manufacturing production index (base: 2010=100)	105,5	-3,7	-1,6	-0,2
Total estimated sales of manufactured products (R million)	146 003	5,1	7,7	9,1

Seasonally adjusted estimates	May 2014	% change between April and May 2014	% change between December 2013 to February 2014 and March to May 2014
Physical volume of manufacturing production index (base: 2010=100)	104,6	-3,3	-2,0
Total value of sales of manufactured products (R million)	145 807	-2,6	-1,6

Manufacturing production decreased by 3,7% in May 2014 compared with May 2013.

The 3,7% year-on-year decrease in manufacturing production in May 2014 was mainly due to lower production in the following divisions:

- motor vehicles, parts and accessories and other transport equipment (-15,9% and contributing -1,6 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (-6,8% and contributing -1,5 percentage points); and
- food and beverages (-4,3% and contributing -1,0 percentage point) (see Table 4b).

Seasonally adjusted manufacturing production decreased by 2,0% in the three months ended May 2014 compared with the previous three months. Seven of the ten manufacturing divisions reported negative growth rates over this period.

The largest negative contributions to the decrease of 2,0% were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-5,1% and contributing -1,2 percentage points);
- motor vehicles, parts and accessories and other transport equipment (-8,4% and contributing -0,8 of a percentage point); and
- food and beverages (-2,3% and contributing -0,6 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

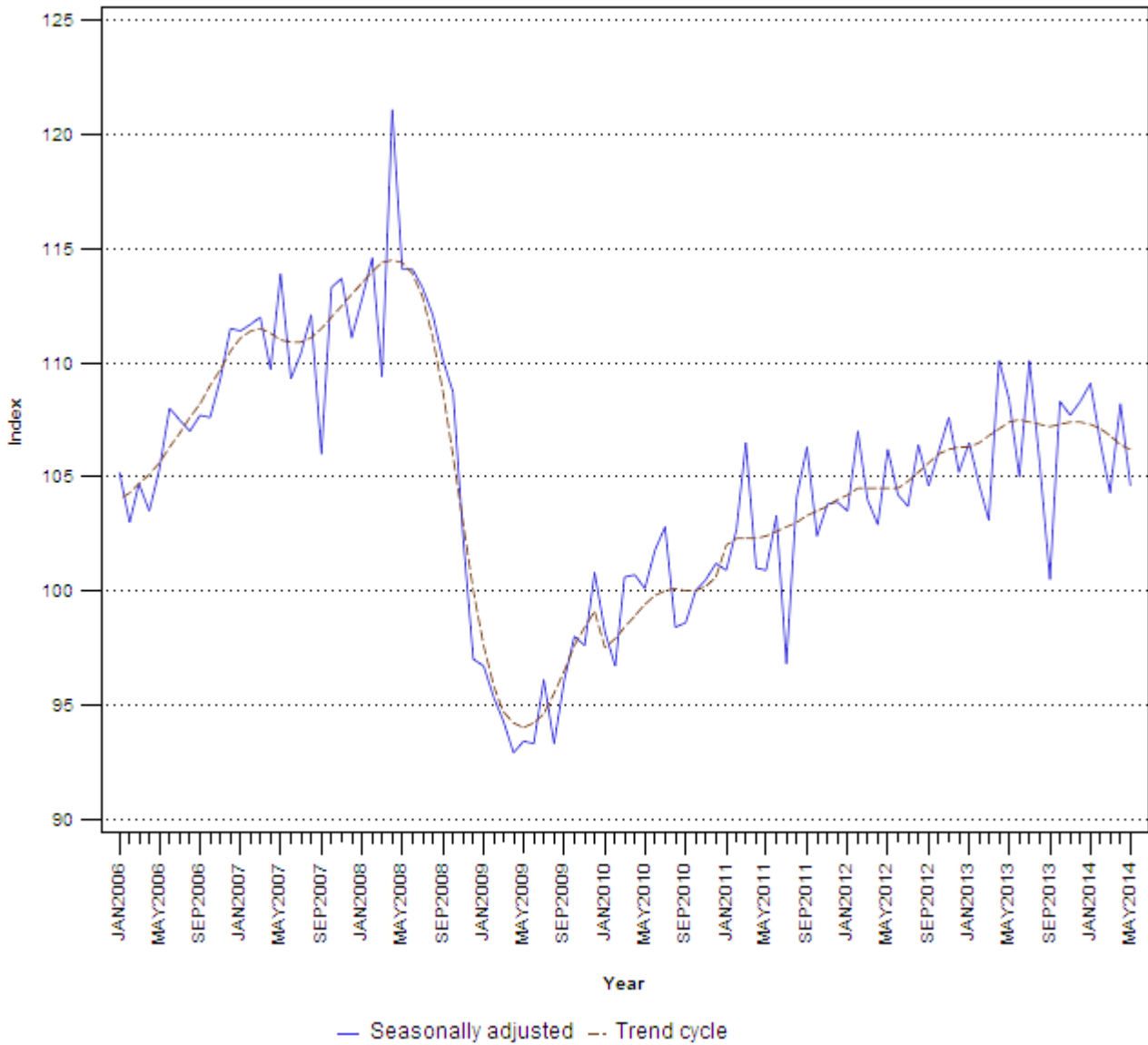
Base: 2010=100

Manufacturing divisions and major groups	Weights 2011	Average seasonally adjusted production index for December 2013 to February 2014	Average seasonally adjusted production index for March to May 2014	Quarterly % change of March to May 2014 compared with the preceding three months	Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/
Food and beverages	23,8	110,5	108,0	-2,3	-0,6
-Meat, fish, fruit, etc.	5,2	115,6	110,9	-4,1	-0,2
-Dairy products	2,3	107,7	105,1	-2,4	-0,1
-Grain mill products	2,8	108,6	106,4	-2,0	-0,1
-Other food products	7,1	107,2	105,4	-1,7	-0,1
-Beverages	6,4	112,0	110,4	-1,4	-0,1
Textiles, clothing, leather and footwear	2,9	95,1	93,9	-1,3	0,0
-Textiles	1,2	85,3	84,9	-0,5	0,0
-Wearing apparel	1,1	96,8	95,6	-1,2	0,0
-Leather and leather products	0,2	129,1	127,9	-0,9	0,0
-Footwear	0,4	104,0	101,0	-2,9	0,0
Wood and wood products, paper, publishing and printing	9,5	100,8	105,0	4,2	0,4
-Wood and products of wood	2,6	100,0	104,7	4,7	0,1
-Paper and paper products	3,3	101,1	106,6	5,4	0,2
-Publishing and printing	3,6	101,3	103,7	2,4	0,1
Petroleum, chemical products, rubber and plastic products	22,5	112,4	106,7	-5,1	-1,2
-Coke, petroleum products and nuclear fuel	6,3	109,4	101,9	-6,9	-0,4
-Basic chemicals	4,8	117,4	113,2	-3,6	-0,2
-Other chemical products	7,1	112,2	109,5	-2,4	-0,2
-Rubber products	1,2	114,8	102,6	-10,6	-0,1
-Plastic products	3,1	109,9	101,9	-7,3	-0,2
Glass and non-metallic mineral products	4,4	102,3	100,5	-1,8	-0,1
-Glass and glass products	0,9	97,5	86,5	-11,3	-0,1
-Non-metallic mineral products	3,5	103,5	104,1	0,6	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,4	104,0	104,5	0,5	0,1
-Basic iron and steel products	4,7	93,6	93,3	-0,3	0,0
-Basic precious, non-ferrous metal products	3,5	106,0	110,4	4,2	0,1
-Fabricated metal products	6,1	110,4	110,1	-0,3	0,0
-Machinery and equipment	6,1	104,4	104,1	-0,3	0,0
Electrical machinery	2,4	103,4	103,1	-0,3	0,0
Radio, television and communication apparatus and professional equipment	1,4	132,1	148,7	12,6	0,2
-Radio, television and communication apparatus	0,9	146,3	178,5	22,0	0,3
-Professional equipment	0,6	110,2	102,7	-6,8	0,0
Motor vehicles, parts and accessories and other transport equipment	8,6	115,4	105,7	-8,4	-0,8
-Motor vehicles	3,9	136,0	119,5	-12,1	-0,6
-Bodies for motor vehicles, trailers and semi-trailers	0,5	107,8	103,3	-4,2	0,0
-Parts and accessories	3,0	93,8	93,0	-0,9	0,0
-Other transport equipment	1,2	106,8	94,5	-11,5	-0,1
Furniture and other manufacturing division	4,1	97,8	94,2	-3,7	-0,1
-Furniture	1,1	107,6	117,2	8,9	0,1
-Other manufacturing groups	3,0	94,4	86,2	-8,7	-0,2
Total	100,0	107,9	105,7	-2,0	-2,0

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 – 2014

Base: 2010=100



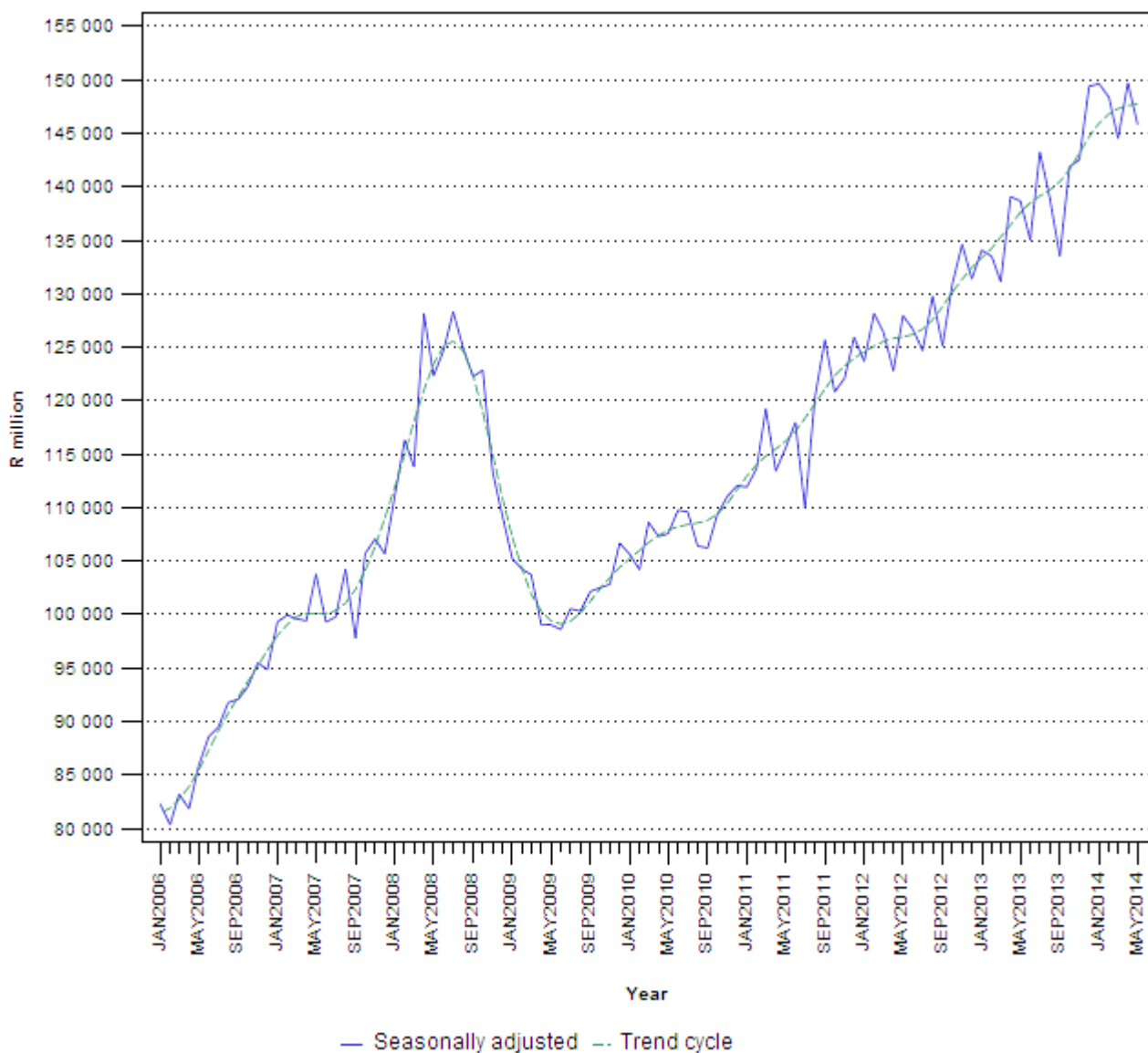
Seasonally adjusted sales of manufactured products (at current prices) decreased by 1,6% (-R7 327 million) in the three months ended May 2014 compared with the previous three months.

The petroleum, chemical products, rubber and plastic products division (-7,1% or -R8 259 million) was the most significant negative contributor to this decrease (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 December 2013 to February 2014	Seasonally adjusted sales March to May 2014	% change between December 2013 to February 2014 and March to May 2014	Difference in seasonally adjusted sales of manufacturing divisions between December 2013 to February 2014 and March to May 2014
	R'000	R'000	%	R'000
Food and beverages	93 165 697	93 741 535	0,6	575 838
-Food and food products	68 277 227	68 276 629	0,0	-598
-Beverages	24 888 469	25 464 905	2,3	576 436
Textiles, clothing, leather and footwear	11 327 534	11 469 078	1,2	141 544
-Textiles	4 199 065	4 328 043	3,1	128 978
-Wearing apparel	4 336 186	4 422 901	2,0	86 715
-Leather and leather products	1 826 205	1 762 090	-3,5	-64 115
-Footwear	966 074	956 045	-1,0	-10 029
Wood and wood products, paper, publishing and printing	31 290 024	32 555 804	4,0	1 265 780
-Wood and products of wood	6 410 194	6 606 910	3,1	196 716
-Paper and paper products	14 798 376	15 445 050	4,4	646 674
-Publishing and printing	10 081 453	10 503 844	4,2	422 391
Petroleum, chemical products, rubber and plastic products	116 637 247	108 377 931	-7,1	-8 259 316
-Coke, petroleum products and nuclear fuel	51 514 460	46 485 617	-9,8	-5 028 843
-Basic chemicals	24 902 318	22 509 814	-9,6	-2 392 504
-Other chemical products	22 668 187	22 424 045	-1,1	-244 142
-Rubber products	4 238 224	4 115 221	-2,9	-123 003
-Plastic products	13 314 058	12 843 233	-3,5	-470 825
Glass and non-metallic mineral products	12 861 476	13 183 318	2,5	321 842
-Glass and glass products	2 123 522	2 055 443	-3,2	-68 079
-Non-metallic mineral products	10 737 954	11 127 875	3,6	389 921
Basic iron and steel, non-ferrous metal products, metal products and machinery	95 227 641	96 843 607	1,7	1 615 966
-Basic iron and steel products	28 723 596	28 908 647	0,6	185 051
-Basic precious, non-ferrous metal products	19 861 008	20 237 212	1,9	376 204
-Fabricated metal products	23 829 670	24 117 621	1,2	287 951
-Machinery and equipment	22 813 368	23 580 127	3,4	766 759
Electrical machinery	12 365 139	11 611 611	-6,1	-753 528
Radio, television and communication apparatus and professional equipment	5 253 466	5 530 327	5,3	276 861
-Radio, television and communication apparatus	2 765 560	3 055 442	10,5	289 882
-Professional equipment	2 487 906	2 474 886	-0,5	-13 020
Motor vehicles, parts and accessories and other transport equipment	55 344 608	52 580 054	-5,0	-2 764 554
-Motor vehicles, trailers, parts and accessories	49 831 380	47 647 602	-4,4	-2 183 778
-Other transport equipment	5 513 227	4 932 454	-10,5	-580 773
Furniture and other manufacturing division	13 897 261	14 149 630	1,8	252 369
-Furniture	3 366 503	3 674 970	9,2	308 467
-Other manufacturing groups	10 530 759	10 474 660	-0,5	-56 099
Total	447 370 093	440 042 893	-1,6	-7 327 200

Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2014



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Detailed results

Table 1 – Total index of the physical volume of manufacturing production: 2008 – 2014

Base: 2010=100

Month	2008	2009	2010	2011	2012	2013	2014
Jan	97,1	82,7	84,5	86,7	89,3	92,3	94,6
Feb	109,4	91,1	92,2	98,4	102,7	100,7	102,3
Mar	113,1	97,6	103,8	109,3	106,6	104,8	1/ 105,8
Apr	112,8	86,6	93,4	93,4	95,1	102,0	1/ 100,1
May	115,4	94,2	100,6	101,6	107,1	109,6	1/ 105,5
Jun	115,7	94,5	102,9	104,2	104,9	105,6	
Jul	116,0	98,2	105,3	98,9	105,8	111,9	
Aug	115,8	96,3	101,6	107,8	110,2	109,6	
Sep	114,4	99,9	102,2	110,4	108,0	103,9	
Oct	120,8	108,4	110,3	112,9	116,6	119,0	
Nov	113,7	107,9	112,2	116,6	121,0	121,1	
Dec	86,3	89,2	91,0	93,5	94,5	97,3	
Year	110,9	95,6	100,0	102,8	105,2	106,5	

1/ Preliminary.

Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2008 – 2014 2/

Month	2008	2009	2010	2011	2012	2013	2014
Jan	0,7	-14,8	2,2	2,6	3,0	3,4	2,5
Feb	2,5	-16,7	1,2	6,7	4,4	-1,9	1,6
Mar	-2,2	-13,7	6,4	5,3	-2,5	-1,7	1,0
Apr	9,9	-23,2	7,9	0,0	1,8	7,3	-1,9
May	0,3	-18,4	6,8	1,0	5,4	2,3	-3,7
Jun	4,5	-18,3	8,9	1,3	0,7	0,7	
Jul	2,6	-15,3	7,2	-6,1	7,0	5,8	
Aug	-0,3	-16,8	5,5	6,1	2,2	-0,5	
Sep	3,9	-12,7	2,3	8,0	-2,2	-3,8	
Oct	-4,1	-10,3	1,8	2,4	3,3	2,1	
Nov	-9,7	-5,1	4,0	3,9	3,8	0,1	
Dec	-11,2	3,4	2,0	2,7	1,1	3,0	
Year	-0,4	-13,8	4,6	2,8	2,3	1,2	

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: 2008 – 2014

Base: 2010=100

Month	2008	2009	2010	2011	2012	2013	2014
Jan	112,8	96,7	98,2	100,9	103,5	106,5	109,1
Feb	114,6	95,3	96,7	102,7	107,0	104,6	106,4
Mar	109,4	94,3	100,6	106,5	104,0	103,1	104,3
Apr	121,1	92,9	100,7	101,0	102,9	110,1	108,2
May	114,1	93,4	100,1	100,9	106,2	108,4	104,6
Jun	114,1	93,3	101,8	103,3	104,2	105,0	
Jul	113,3	96,1	102,8	96,8	103,7	110,1	
Aug	112,1	93,3	98,4	104,1	106,4	105,6	
Sep	110,1	96,1	98,6	106,3	104,6	100,5	
Oct	108,7	98,0	100,0	102,4	106,1	108,3	
Nov	102,2	97,6	100,5	103,8	107,6	107,7	
Dec	97,0	100,8	101,2	103,9	105,2	108,3	

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 2011	Average for 2013	Actual indices			Seasonally adjusted indices		
			May 2013	1/ April 2014	1/ May 2014	May 2013	April 2014	May 2014
Food and beverages	23,8	108,0	109,6	103,5	104,9	109,6	113,7	105,3
-Meat, fish, fruit, etc.	5,2	109,5	112,1	109,9	111,9	111,7	114,8	111,3
-Dairy products	2,3	106,0	102,3	100,0	98,6	109,5	105,3	105,2
-Grain mill products	2,8	107,5	109,2	101,2	106,1	109,0	108,2	105,8
-Other food products	7,1	105,0	120,9	108,2	103,7	109,4	116,7	93,3
-Beverages	6,4	111,0	97,8	95,5	102,2	108,3	115,0	113,4
Textiles, clothing, leather and footwear	2,9	95,2	99,0	93,6	93,8	97,8	95,3	92,7
-Textiles	0,8	82,8	86,1	81,1	83,9	81,9	80,8	80,0
-Other textile products	0,4	95,1	105,6	90,4	100,8	102,1	96,6	97,0
-Knitted, crocheted articles	0,1	65,9	76,1	66,6	70,6	65,5	60,6	60,9
-Wearing apparel	1,0	100,9	104,4	98,1	94,7	106,6	98,0	96,9
-Leather and leather products	0,2	120,3	115,8	128,6	117,6	115,2	134,1	117,5
-Footwear	0,4	101,5	103,0	100,3	98,9	103,4	106,3	99,3
Wood and wood products, paper, publishing and printing	9,5	103,6	98,8	94,0	100,2	101,8	107,2	103,6
-Sawmilling and planing of wood	0,8	108,4	107,3	109,6	108,7	107,6	115,4	109,1
-Products of wood	1,8	98,7	100,8	97,0	97,4	100,0	107,4	96,6
-Paper and paper products	3,3	100,0	96,8	93,7	103,4	99,6	104,0	106,5
-Publishing	1,4	116,5	99,0	95,6	97,6	110,3	111,3	110,3
-Printing, recorded media	2,2	102,6	96,7	85,3	96,1	98,7	105,9	98,4
Petroleum, chemical products, rubber and plastic products	22,5	108,6	105,2	100,6	108,8	105,6	106,6	109,2
-Coke, petroleum products and nuclear fuel	6,3	101,9	87,2	100,4	111,5	86,1	101,5	110,6
-Basic chemicals	4,8	108,7	109,4	106,4	110,5	110,5	114,2	111,5
-Other chemical products	7,1	114,5	112,5	100,1	108,6	115,2	109,0	111,0
-Rubber products	1,2	113,0	131,7	87,6	110,9	122,9	94,6	102,6
-Plastic products	3,1	107,4	108,5	97,7	100,6	109,2	104,5	101,0
Glass and non-metallic mineral products	4,4	105,5	112,4	95,8	103,7	108,8	101,3	99,5
-Glass and glass products	0,9	105,3	101,1	73,5	77,6	112,6	83,1	86,4
-Non-metallic mineral products	3,5	105,6	115,3	101,4	110,3	107,9	106,0	102,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,4	105,3	114,2	102,1	106,4	110,5	107,0	102,9
-Basic iron and steel products	4,7	94,8	114,1	98,2	106,6	101,7	96,0	95,1
-Non-ferrous metal products	3,5	108,4	114,9	106,6	112,8	113,7	110,9	111,6
-Structural metal products	2,2	88,8	87,6	80,7	83,9	87,6	86,4	84,2
-Other fabricated metal products	3,9	119,5	122,4	119,0	124,1	119,3	127,9	121,0
-General purpose machinery	2,4	100,4	109,3	85,1	83,5	107,0	91,6	81,4
-Special purpose machinery	3,0	114,4	125,4	105,7	106,8	126,8	114,7	107,5
-Household appliances	0,7	113,6	119,1	125,7	127,0	118,7	133,6	126,5
Electrical machinery	2,4	104,8	109,8	98,8	102,2	107,1	105,7	99,0
Radio, television and communication apparatus and professional equipment	1,4	127,1	112,8	128,2	139,0	120,2	149,7	149,7
-Radio, television and communication apparatus	0,9	141,2	119,9	147,3	165,5	132,7	181,9	183,5
-Professional equipment	0,5	105,2	101,9	98,7	98,1	101,0	100,0	97,5
Motor vehicles, parts and accessories and other transport equipment	8,6	109,4	129,7	101,0	109,1	122,4	108,7	102,5
-Motor vehicles	3,9	124,6	150,9	115,5	125,1	143,8	125,3	118,4
-Bodies for motor vehicles, trailers and semi-trailers	0,5	111,2	131,2	101,8	113,0	118,7	103,1	101,3
-Parts and accessories	3,0	94,8	115,5	89,2	96,5	105,7	94,1	87,9
-Other transport equipment	1,2	96,8	97,1	83,9	87,7	97,9	94,9	88,7
Furniture and other manufacturing division	4,1	94,8	96,9	80,9	91,4	96,1	95,6	90,6
-Furniture	1,1	110,6	108,8	108,9	119,2	107,8	119,2	117,9
-Other manufacturing groups	3,0	89,3	92,8	71,1	81,8	92,0	87,4	81,1
Total	100,0	106,5	109,6	100,1	105,5	108,4	108,2	104,6

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 2011	Average for 2013	Actual indices			Seasonally adjusted indices		
			May 2013	1/ May 2014	% change between May 2013 and May 2014	April 2014	May 2014	% change between April and May 2014
Food and beverages	23,8	108,0	109,6	104,9	-4,3	113,7	105,3	-7,4
-Meat, fish, fruit, etc.	5,2	109,5	112,1	111,9	-0,2	114,8	111,3	-3,0
-Dairy products	2,3	106,0	102,3	98,6	-3,6	105,3	105,2	-0,1
-Grain mill products	2,8	107,5	109,2	106,1	-2,8	108,2	105,8	-2,2
-Other food products	7,1	105,0	120,9	103,7	-14,2	116,7	93,3	-20,1
-Beverages	6,4	111,0	97,8	102,2	4,5	115,0	113,4	-1,4
Textiles, clothing, leather and footwear	2,9	95,2	99,0	93,8	-5,3	95,3	92,7	-2,7
-Textiles	0,8	82,8	86,1	83,9	-2,6	80,8	80,0	-1,0
-Other textile products	0,4	95,1	105,6	100,8	-4,5	96,6	97,0	0,4
-Knitted, crocheted articles	0,1	65,9	76,1	70,6	-7,2	60,6	60,9	0,5
-Wearing apparel	1,0	100,9	104,4	94,7	-9,3	98,0	96,9	-1,1
-Leather and leather products	0,2	120,3	115,8	117,6	1,6	134,1	117,5	-12,4
-Footwear	0,4	101,5	103,0	98,9	-4,0	106,3	99,3	-6,6
Wood and wood products, paper, publishing and printing	9,5	103,6	98,8	100,2	1,4	107,2	103,6	-3,4
-Sawmilling and planing of wood	0,8	108,4	107,3	108,7	1,3	115,4	109,1	-5,5
-Products of wood	1,8	98,7	100,8	97,4	-3,4	107,4	96,6	-10,1
-Paper and paper products	3,3	100,0	96,8	103,4	6,8	104,0	106,5	2,4
-Publishing	1,4	116,5	99,0	97,6	-1,4	111,3	110,3	-0,9
-Printing, recorded media	2,2	102,6	96,7	96,1	-0,6	105,9	98,4	-7,1
Petroleum, chemical products, rubber and plastic products	22,5	108,6	105,2	108,8	3,4	106,6	109,2	2,4
-Coke, petroleum products and nuclear fuel	6,3	101,9	87,2	111,5	27,9	101,5	110,6	9,0
-Basic chemicals	4,8	108,7	109,4	110,5	1,0	114,2	111,5	-2,4
-Other chemical products	7,1	114,5	112,5	108,6	-3,5	109,0	111,0	1,8
-Rubber products	1,2	113,0	131,7	110,9	-15,8	94,6	102,6	8,5
-Plastic products	3,1	107,4	108,5	100,6	-7,3	104,5	101,0	-3,3
Glass and non-metallic mineral products	4,4	105,5	112,4	103,7	-7,7	101,3	99,5	-1,8
-Glass and glass products	0,9	105,3	101,1	77,6	-23,2	83,1	86,4	4,0
-Non-metallic mineral products	3,5	105,6	115,3	110,3	-4,3	106,0	102,8	-3,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,4	105,3	114,2	106,4	-6,8	107,0	102,9	-3,8
-Basic iron and steel products	4,7	94,8	114,1	106,6	-6,6	96,0	95,1	-0,9
-Non-ferrous metal products	3,5	108,4	114,9	112,8	-1,8	110,9	111,6	0,6
-Structural metal products	2,2	88,8	87,6	83,9	-4,2	86,4	84,2	-2,5
-Other fabricated metal products	3,9	119,5	122,4	124,1	1,4	127,9	121,0	-5,4
-General purpose machinery	2,4	100,4	109,3	83,5	-23,6	91,6	81,4	-11,1
-Special purpose machinery	3,0	114,4	125,4	106,8	-14,8	114,7	107,5	-6,3
-Household appliances	0,7	113,6	119,1	127,0	6,6	133,6	126,5	-5,3
Electrical machinery	2,4	104,8	109,8	102,2	-6,9	105,7	99,0	-6,3
Radio, television and communication apparatus and professional equipment	1,4	127,1	112,8	139,0	23,2	149,7	149,7	0,0
-Radio, television and communication apparatus	0,9	141,2	119,9	165,5	38,0	181,9	183,5	0,9
-Professional equipment	0,5	105,2	101,9	98,1	-3,7	100,0	97,5	-2,5
Motor vehicles, parts and accessories and other transport equipment	8,6	109,4	129,7	109,1	-15,9	108,7	102,5	-5,7
-Motor vehicles	3,9	124,6	150,9	125,1	-17,1	125,3	118,4	-5,5
-Bodies for motor vehicles, trailers and semi-trailers	0,5	111,2	131,2	113,0	-13,9	103,1	101,3	-1,7
-Parts and accessories	3,0	94,8	115,5	96,5	-16,5	94,1	87,9	-6,6
-Other transport equipment	1,2	96,8	97,1	87,7	-9,7	94,9	88,7	-6,5
Furniture and other manufacturing division	4,1	94,8	96,9	91,4	-5,7	95,6	90,6	-5,2
-Furniture	1,1	110,6	108,8	119,2	9,6	119,2	117,9	-1,1
-Other manufacturing groups	3,0	89,3	92,8	81,8	-11,9	87,4	81,1	-7,2
Total	100,0	106,5	109,6	105,5	-3,7	108,2	104,6	-3,3

1/ Preliminary.

Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2008 – 2014

Month	2008	2009	2010	2011	2012	2013	2014
Jan	93 280 502	87 916 275	88 548 858	94 246 456	105 443 384	114 667 597	128 289 950
Feb	110 769 560	99 565 792	100 040 055	109 522 908	123 677 978	129 430 936	143 961 067
Mar	117 621 056	107 737 720	113 278 092	123 964 153	130 984 336	135 367 021	1/ 148 959 123
Apr	119 609 521	92 230 272	99 980 962	106 169 292	115 493 885	131 245 797	1/ 141 599 510
May	122 938 629	98 715 959	107 436 033	115 621 248	128 068 083	138 886 360	1/ 146 003 346
Jun	127 601 209	100 377 623	111 752 400	120 091 539	128 588 051	136 903 333	
Jul	131 369 593	102 048 423	110 963 260	110 987 187	125 462 845	143 961 443	
Aug	129 126 848	103 007 029	108 663 903	122 688 235	132 094 313	141 465 771	
Sep	128 633 004	107 188 812	111 184 472	130 818 755	129 532 600	137 779 801	
Oct	135 163 841	112 486 658	119 561 318	131 429 847	141 820 125	153 497 418	
Nov	125 995 637	114 583 579	124 219 561	136 700 911	150 484 487	159 357 328	
Dec	98 974 837	97 356 722	102 518 765	115 525 999	121 426 485	138 000 892	
Year	1 441 084 237	1 223 214 864	1 298 147 679	1 417 766 530	1 533 076 572	1 660 563 697	

1/ Preliminary.

Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2008 – 2014 2/

Month	2008	2009	2010	2011	2012	2013	2014
Jan	12,0	-5,8	0,7	6,4	11,9	8,7	11,9
Feb	16,1	-10,1	0,5	9,5	12,9	4,7	11,2
Mar	14,5	-8,4	5,1	9,4	5,7	3,3	10,0
Apr	28,8	-22,9	8,4	6,2	8,8	13,6	7,9
May	18,0	-19,7	8,8	7,6	10,8	8,4	5,1
Jun	26,1	-21,3	11,3	7,5	7,1	6,5	
Jul	29,0	-22,3	8,7	0,0	13,0	14,7	
Aug	19,9	-20,2	5,5	12,9	7,7	7,1	
Sep	24,9	-16,7	3,7	17,7	-1,0	6,4	
Oct	16,2	-16,8	6,3	9,9	7,9	8,2	
Nov	5,9	-9,1	8,4	10,0	10,1	5,9	
Dec	4,7	-1,6	5,3	12,7	5,1	13,6	
Year	17,9	-15,1	6,1	9,2	8,1	8,3	

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): 2008 – 2014

Month	2008	2009	2010	2011	2012	2013	2014
Jan	111 037 420	105 222 422	105 640 349	111 915 068	123 680 605	134 064 074	149 636 152
Feb	116 296 470	104 214 713	104 186 309	113 710 498	128 138 427	133 487 906	148 350 031
Mar	113 801 978	103 723 913	108 628 634	119 230 854	126 401 568	131 117 054	144 530 747
Apr	128 134 693	99 019 092	107 299 000	113 426 301	122 801 881	139 061 936	149 704 779
May	122 319 386	99 037 747	107 563 173	115 527 280	127 942 844	138 675 600	145 807 367
Jun	124 686 674	98 599 230	109 757 087	117 952 760	126 662 268	135 024 967	
Jul	128 314 986	100 533 179	109 597 070	109 921 949	124 671 758	143 240 687	
Aug	124 939 635	100 312 441	106 397 099	120 342 536	129 765 552	138 923 429	
Sep	122 230 947	102 155 108	106 231 126	125 679 538	125 147 668	133 510 659	
Oct	122 859 754	102 501 246	109 347 493	120 808 123	130 854 424	141 866 275	
Nov	113 306 793	102 826 898	111 035 465	122 089 986	134 600 768	142 537 078	
Dec	109 248 992	106 684 156	112 024 596	125 918 229	131 385 155	149 383 910	

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 2013	Actual values			Seasonally adjusted values		
		May 2013	1/ April 2014	1/ May 2014	May 2013	April 2014	May 2014
Food and beverages	350 792 551	27 970 354	30 011 477	30 209 986	29 163 383	31 903 333	31 456 433
-Meat, fish, fruit, etc.	88 138 403	7 317 061	7 720 000	8 080 025	7 309 704	8 119 260	8 050 155
-Dairy products	30 206 448	2 490 619	2 645 873	2 631 770	2 556 160	2 730 650	2 688 651
-Grain mill products	60 530 218	5 061 293	5 301 851	5 474 363	5 119 389	5 558 456	5 531 533
-Other food products	75 018 987	6 249 387	6 861 790	6 450 019	6 300 550	6 859 657	6 496 800
-Beverages	96 898 495	6 851 994	7 481 963	7 573 809	7 877 581	8 635 310	8 689 294
Textiles, clothing, leather and footwear	43 395 079	3 774 731	3 828 571	3 888 901	3 682 253	3 867 522	3 792 686
-Textiles	5 746 856	513 531	519 097	568 478	483 755	518 134	535 017
-Other textile products	10 528 612	960 393	931 632	985 158	920 427	949 081	944 299
-Knitted, crocheted articles	1 750 286	179 558	148 811	167 880	150 293	139 087	140 860
-Wearing apparel	15 200 804	1 297 844	1 316 523	1 307 613	1 298 974	1 323 425	1 307 961
-Leather and leather products	6 350 030	517 340	600 371	564 575	511 068	609 989	558 125
-Footwear	3 818 491	306 065	312 137	295 197	317 737	327 807	306 424
Wood and wood products, paper, publishing and printing	123 669 024	9 659 189	9 551 527	10 440 424	9 929 475	10 908 858	10 773 447
-Sawmilling and planing of wood	9 116 235	704 357	715 805	727 259	725 004	779 617	749 986
-Products of wood	16 089 689	1 325 312	1 415 467	1 339 549	1 333 404	1 535 431	1 351 292
-Paper and paper products	56 669 102	4 512 153	4 473 446	5 068 461	4 580 075	5 083 563	5 156 577
-Publishing	19 276 283	1 354 434	1 376 273	1 423 920	1 506 699	1 579 362	1 606 241
-Printing, recorded media	22 517 715	1 762 933	1 570 536	1 881 235	1 784 293	1 930 885	1 909 351
Petroleum, chemical products, rubber and plastic products	420 195 429	34 836 548	36 127 349	36 589 462	34 287 788	36 879 331	36 009 738
-Coke, petroleum products and nuclear fuel	180 117 559	14 891 183	16 595 044	15 972 429	14 187 728	16 060 663	15 292 305
-Basic chemicals	85 217 409	7 151 782	7 210 842	7 534 780	7 169 338	7 584 198	7 529 304
-Other chemical products	89 191 428	7 206 154	7 030 690	7 399 382	7 382 235	7 455 775	7 565 540
-Rubber products	15 681 997	1 404 017	1 188 572	1 387 992	1 377 998	1 358 811	1 354 695
-Plastic products	49 987 036	4 183 412	4 102 201	4 294 879	4 170 488	4 419 883	4 267 894
Glass and non-metallic mineral products	51 552 109	4 410 605	4 311 564	4 416 781	4 428 558	4 703 282	4 411 470
-Glass and glass products	8 991 034	686 547	602 108	595 053	784 617	709 549	679 478
-Non-metallic mineral products	42 561 075	3 724 058	3 709 456	3 821 728	3 643 941	3 993 733	3 731 992
Basic iron and steel, non-ferrous metal products, metal products and machinery	358 886 085	31 005 005	31 281 634	33 115 988	30 226 396	32 927 029	32 240 885
-Basic iron and steel products	103 491 851	9 417 745	10 016 966	10 293 336	8 739 566	10 015 701	9 549 955
-Non-ferrous metal products	72 703 638	6 030 651	6 224 649	7 099 405	6 026 435	6 496 940	7 106 134
-Structural metal products	31 067 330	2 566 967	2 418 351	2 505 288	2 601 334	2 623 356	2 552 283
-Other fabricated metal products	61 647 526	5 308 454	5 257 469	5 604 017	5 180 765	5 709 597	5 446 819
-General purpose machinery	32 921 383	2 944 676	2 491 194	2 524 459	2 871 414	2 738 182	2 446 684
-Special purpose machinery	45 845 173	3 787 349	3 896 515	3 941 172	3 887 125	4 267 710	4 029 827
-Household appliances	11 209 184	949 163	976 490	1 148 311	919 756	1 075 543	1 109 183
Electrical machinery	46 753 406	3 863 247	3 673 599	3 798 847	3 809 403	3 961 126	3 743 274
Radio, television and communication apparatus and professional equipment	18 881 967	1 451 599	1 578 602	1 791 407	1 522 457	1 768 657	1 894 784
-Radio, television and communication apparatus	9 539 664	695 134	826 165	975 230	770 998	955 492	1 080 820
-Professional equipment	9 342 303	756 465	752 437	816 177	751 459	813 165	813 965
Motor vehicles, parts and accessories and other transport equipment	192 473 218	17 356 281	16 546 679	17 056 456	17 147 298	17 939 741	16 878 244
-Motor vehicles	105 830 876	9 667 461	9 014 303	9 070 591	9 683 425	9 937 685	9 111 813
-Bodies for motor vehicles, trailers and semi-trailers	7 822 319	719 044	638 865	708 170	692 594	672 821	678 557
-Parts and accessories	59 922 039	5 399 560	5 420 438	5 736 490	5 205 775	5 679 587	5 545 557
-Other transport equipment	18 897 984	1 570 216	1 473 073	1 541 205	1 565 504	1 649 648	1 542 318
Furniture and other manufacturing division	53 964 829	4 558 801	4 688 508	4 695 094	4 478 589	4 845 901	4 606 407
-Furniture	13 442 912	1 083 158	1 150 021	1 255 281	1 075 311	1 249 195	1 245 468
-Other manufacturing groups	40 521 917	3 475 643	3 538 487	3 439 813	3 403 279	3 596 705	3 360 939
Total	1 660 563 697	138 886 360	141 599 510	146 003 346	138 675 600	149 704 779	145 807 367

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 2013	Actual values			Seasonally adjusted values		
		May 2013	1/ May 2014	% change between May 2013 and May 2014	April 2014	May 2014	% change between April and May 2014
Food and beverages	350 792 551	27 970 354	30 209 986	8,0	31 903 333	31 456 433	-1,4
-Meat, fish, fruit, etc.	88 138 403	7 317 061	8 080 025	10,4	8 119 260	8 050 155	-0,9
-Dairy products	30 206 448	2 490 619	2 631 770	5,7	2 730 650	2 688 651	-1,5
-Grain mill products	60 530 218	5 061 293	5 474 363	8,2	5 558 456	5 531 533	-0,5
-Other food products	75 018 987	6 249 387	6 450 019	3,2	6 859 657	6 496 800	-5,3
-Beverages	96 898 495	6 851 994	7 573 809	10,5	8 635 310	8 689 294	0,6
Textiles, clothing, leather and footwear	43 395 079	3 774 731	3 888 901	3,0	3 867 522	3 792 686	-1,9
-Textiles	5 746 856	513 531	568 478	10,7	518 134	535 017	3,3
-Other textile products	10 528 612	960 393	985 158	2,6	949 081	944 299	-0,5
-Knitted, crocheted articles	1 750 286	179 558	167 880	-6,5	139 087	140 860	1,3
-Wearing apparel	15 200 804	1 297 844	1 307 613	0,8	1 323 425	1 307 961	-1,2
-Leather and leather products	6 350 030	517 340	564 575	9,1	609 989	558 125	-8,5
-Footwear	3 818 491	306 065	295 197	-3,6	327 807	306 424	-6,5
Wood and wood products, paper, publishing and printing	123 669 024	9 659 189	10 440 424	8,1	10 908 858	10 773 447	-1,2
-Sawmilling and planing of wood	9 116 235	704 357	727 259	3,3	779 617	749 986	-3,8
-Products of wood	16 089 689	1 325 312	1 339 549	1,1	1 535 431	1 351 292	-12,0
-Paper and paper products	56 669 102	4 512 153	5 068 461	12,3	5 083 563	5 156 577	1,4
-Publishing	19 276 283	1 354 434	1 423 920	5,1	1 579 362	1 606 241	1,7
-Printing, recorded media	22 517 715	1 762 933	1 881 235	6,7	1 930 885	1 909 351	-1,1
Petroleum, chemical products, rubber and plastic products	420 195 429	34 836 548	36 589 462	5,0	36 879 331	36 009 738	-2,4
-Coke, petroleum products and nuclear fuel	180 117 559	14 891 183	15 972 429	7,3	16 060 663	15 292 305	-4,8
-Basic chemicals	85 217 409	7 151 782	7 534 780	5,4	7 584 198	7 529 304	-0,7
-Other chemical products	89 191 428	7 206 154	7 399 382	2,7	7 455 775	7 565 540	1,5
-Rubber products	15 681 997	1 404 017	1 387 992	-1,1	1 358 811	1 354 695	-0,3
-Plastic products	49 987 036	4 183 412	4 294 879	2,7	4 419 883	4 267 894	-3,4
Glass and non-metallic mineral products	51 552 109	4 410 605	4 416 781	0,1	4 703 282	4 411 470	-6,2
-Glass and glass products	8 991 034	686 547	595 053	-13,3	709 549	679 478	-4,2
-Non-metallic mineral products	42 561 075	3 724 058	3 821 728	2,6	3 993 733	3 731 992	-6,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	358 886 085	31 005 005	33 115 988	6,8	32 927 029	32 240 885	-2,1
-Basic iron and steel products	103 491 851	9 417 745	10 293 336	9,3	10 015 701	9 549 955	-4,7
-Non-ferrous metal products	72 703 638	6 030 651	7 099 405	17,7	6 496 940	7 106 134	9,4
-Structural metal products	31 067 330	2 566 967	2 505 288	-2,4	2 623 356	2 552 283	-2,7
-Other fabricated metal products	61 647 526	5 308 454	5 604 017	5,6	5 709 597	5 446 819	-4,6
-General purpose machinery	32 921 383	2 944 676	2 524 459	-14,3	2 738 182	2 446 684	-10,6
-Special purpose machinery	45 845 173	3 787 349	3 941 172	4,1	4 267 710	4 029 827	-5,6
-Household appliances	11 209 184	949 163	1 148 311	21,0	1 075 543	1 109 183	3,1
Electrical machinery	46 753 406	3 863 247	3 798 847	-1,7	3 961 126	3 743 274	-5,5
Radio, television and communication apparatus and professional equipment	18 881 967	1 451 599	1 791 407	23,4	1 768 657	1 894 784	7,1
-Radio, television and communication apparatus	9 539 664	695 134	975 230	40,3	955 492	1 080 820	13,1
-Professional equipment	9 342 303	756 465	816 177	7,9	813 165	813 965	0,1
Motor vehicles, parts and accessories and other transport equipment	192 473 218	17 356 281	17 056 456	-1,7	17 939 741	16 878 244	-5,9
-Motor vehicles	105 830 876	9 667 461	9 070 591	-6,2	9 937 685	9 111 813	-8,3
-Bodies for motor vehicles, trailers and semi-trailers	7 822 319	719 044	708 170	-1,5	672 821	678 557	0,9
-Parts and accessories	59 922 039	5 399 560	5 736 490	6,2	5 679 587	5 545 557	-2,4
-Other transport equipment	18 897 984	1 570 216	1 541 205	-1,8	1 649 648	1 542 318	-6,5
Furniture and other manufacturing division	53 964 829	4 558 801	4 695 094	3,0	4 845 901	4 606 407	-4,9
-Furniture	13 442 912	1 083 158	1 255 281	15,9	1 249 195	1 245 468	-0,3
-Other manufacturing groups	40 521 917	3 475 643	3 439 813	-1,0	3 596 705	3 360 939	-6,6
Total	1 660 563 697	138 886 360	146 003 346	5,1	149 704 779	145 807 367	-2,6

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 2011	Production indices (base: 2010=100)			Value of sales (R'000)		
		March to May 2013	March to May 2014	% change between March to May 2013 and March to May 2014	March to May 2013	March to May 2014	% change between March to May 2013 and March to May 2014
Food and beverages	23,8	104,2	103,5	-0,7	82 505 281	89 815 414	8,9
-Meat, fish, fruit, etc.	5,2	110,0	111,3	1,2	21 389 242	23 617 633	10,4
-Dairy products	2,3	104,5	101,1	-3,3	7 556 870	7 932 628	5,0
-Grain mill products	2,8	107,4	104,0	-3,2	15 023 338	16 112 421	7,2
-Other food products	7,1	104,1	101,6	-2,4	17 803 036	19 330 921	8,6
-Beverages	6,4	98,0	99,8	1,8	20 732 795	22 821 811	10,1
Textiles, clothing, leather and footwear	2,9	96,9	94,5	-2,5	11 044 047	11 700 657	5,9
-Textiles	0,8	84,5	81,5	-3,6	1 504 942	1 630 366	8,3
-Other textile products	0,4	102,4	96,6	-5,7	2 789 005	2 822 146	1,2
-Knitted, crocheted articles	0,1	73,7	69,2	-6,1	503 154	487 528	-3,1
-Wearing apparel	1,0	103,6	98,5	-4,9	3 846 478	4 015 644	4,4
-Leather and leather products	0,2	109,8	128,7	17,2	1 480 176	1 814 943	22,6
-Footwear	0,4	99,3	98,8	-0,5	920 292	930 030	1,1
Wood and wood products, paper, publishing and printing	9,5	95,2	100,1	5,1	28 303 762	31 096 052	9,9
-Sawmilling and planing of wood	0,8	104,0	113,0	8,7	2 097 184	2 343 743	11,8
-Products of wood	1,8	97,7	97,8	0,1	3 889 161	4 100 822	5,4
-Paper and paper products	3,3	94,4	103,3	9,4	13 375 631	14 927 800	11,6
-Publishing	1,4	98,6	101,5	2,9	4 059 803	4 411 548	8,7
-Printing, recorded media	2,2	88,7	91,2	2,8	4 881 983	5 312 139	8,8
Petroleum, chemical products, rubber and plastic products	22,5	106,6	105,1	-1,4	101 321 482	108 620 025	7,2
-Coke, petroleum products and nuclear fuel	6,3	98,0	102,5	4,6	42 842 220	47 799 759	11,6
-Basic chemicals	4,8	105,2	109,4	4,0	20 520 219	22 025 032	7,3
-Other chemical products	7,1	113,1	106,1	-6,2	21 810 289	22 017 251	0,9
-Rubber products	1,2	123,3	108,9	-11,7	4 139 278	4 234 537	2,3
-Plastic products	3,1	105,6	99,7	-5,6	12 009 476	12 543 446	4,4
Glass and non-metallic mineral products	4,4	105,3	98,9	-6,1	12 667 194	12 811 957	1,1
-Glass and glass products	0,9	98,1	77,3	-21,2	1 983 095	1 769 024	-10,8
-Non-metallic mineral products	3,5	107,1	104,4	-2,5	10 684 099	11 042 933	3,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,4	107,2	106,1	-1,0	90 198 361	98 266 361	8,9
-Basic iron and steel products	4,7	98,0	99,2	1,2	26 588 089	30 254 464	13,8
-Non-ferrous metal products	3,5	112,2	110,4	-1,6	17 835 838	20 032 656	12,3
-Structural metal products	2,2	84,3	84,5	0,2	7 420 205	7 659 100	3,2
-Other fabricated metal products	3,9	115,5	122,9	6,4	15 455 010	16 296 541	5,4
-General purpose machinery	2,4	105,3	88,3	-16,1	8 416 128	7 980 323	-5,2
-Special purpose machinery	3,0	121,3	115,1	-5,1	11 631 312	12 718 260	9,3
-Household appliances	0,7	116,8	130,4	11,6	2 851 779	3 325 017	16,6
Electrical machinery	2,4	109,1	106,0	-2,8	11 574 439	11 882 921	2,7
Radio, television and communication apparatus and professional equipment	1,4	116,9	135,9	16,3	4 291 945	5 213 371	21,5
-Radio, television and communication apparatus	0,9	122,9	156,1	27,0	1 995 511	2 751 468	37,9
-Professional equipment	0,5	107,8	104,7	-2,9	2 296 434	2 461 903	7,2
Motor vehicles, parts and accessories and other transport equipment	8,6	121,2	106,6	-12,0	50 457 752	53 031 408	5,1
-Motor vehicles	3,9	143,6	119,6	-16,7	28 171 902	29 225 105	3,7
-Bodies for motor vehicles, trailers and semi-trailers	0,5	115,5	107,4	-7,0	1 945 005	2 037 185	4,7
-Parts and accessories	3,0	104,2	95,1	-8,7	15 756 328	16 875 677	7,1
-Other transport equipment	1,2	94,8	93,2	-1,7	4 584 517	4 893 441	6,7
Furniture and other manufacturing division	4,1	89,5	89,9	0,4	13 134 915	14 123 813	7,5
-Furniture	1,1	101,7	110,2	8,4	3 054 022	3 457 660	13,2
-Other manufacturing groups	3,0	85,3	82,8	-2,9	10 080 893	10 666 153	5,8
Total	100,0	105,5	103,8	-1,6	405 499 178	436 561 979	7,7

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 *Standard Industrial Classification of all Economic Activities* (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 *International Standard Industrial Classification of all Economic Activities* (ISIC) with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two digit) and major group (three digit) level.
- Collection rate**
- 9 The preliminary collection rate for the survey on manufacturing production and sales for May 2014 was 89,9%. Improved collection rate for April 2014 was 93,1%.
- 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 2013 from a population then of 47 605 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 and for the period 2011 to 2014, the weights are based on national accounts value added data of 2011. 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 2005 to 2009, 2010 and 2011 to 2014).

Seasonal adjustment

- 17 Seasonally adjusted estimates of all major groups are generated each month, using the X-11 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 a time 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. Currently, no adjustment is made for changes in the timing of Easter. Therefore the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.

- Trend cycle** **18** The trend is the long-term pattern or movement of a time series. The X-11 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

25 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.

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

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

Class limits: Manufacturing (Rand)

Enterprise size	Lower limits	Upper limits
Very small	0	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 - <ul style="list-style-type: none">• 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 - <ul style="list-style-type: none">• 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 - <ul style="list-style-type: none">• 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 the 2005 LSS of the manufacturing industry 2005 - 2009	Weights according to 2010 national accounts value added 2010	Weights according to 2011 national accounts value added 2011 - 2014
Food and beverages	15,4	22,1	23,8
Meat, fish, fruit, etc.	1,8	4,4	5,2
Dairy products	0,8	2,2	2,3
Grain mill products	0,8	2,7	2,8
Other food products	5,2	6,4	7,1
Beverages	6,8	6,4	6,4
Textiles, clothing, leather and footwear	4,9	3,5	2,9
Textiles	0,7	0,7	0,8
Other textile products	0,9	0,4	0,4
Knitted, crocheted articles	0,2	0,1	0,1
Wearing apparel	2,1	1,6	1,0
Tanning, dressing of leather	0,6	0,2	0,2
Footwear	0,4	0,5	0,4
Wood and wood products, paper, publishing and printing	10,2	9,3	9,5
Sawmilling and planing of wood	0,7	0,8	0,8
Products of wood	1,3	1,7	1,8
Paper and paper products	3,8	3,2	3,3
Publishing	1,9	1,4	1,4
Printing, recorded media	2,5	2,2	2,2
Petroleum, chemical products, rubber and plastic products	22,1	25,1	22,5
Petroleum products	8,5	8,0	6,3
Basic chemicals	4,5	5,8	4,8
Other chemical products	5,3	7,4	7,1
Rubber products	1,0	1,2	1,2
Plastic products	2,7	2,7	3,1
Glass and non-metallic mineral products	4,8	4,9	4,4
Glass and glass products	1,0	0,8	0,9
Non-metallic mineral products	3,8	4,1	3,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	20,3	20,4
Basic iron and steel products	7,7	4,4	4,7
Non-ferrous metal products	3,4	3,5	3,5
Structural metal products	2,0	1,9	2,2
Other fabricated metal products	3,8	3,8	3,9
General purpose machinery	2,4	2,3	2,4
Special purpose machinery	3,1	3,5	3,0
Household appliances	0,6	0,9	0,7
Electrical machinery	2,5	2,4	2,4
Radio, television and communication apparatus and professional equipment	1,1	1,3	1,4
Radio, television and communication apparatus	0,4	0,8	0,9
Professional equipment	0,7	0,5	0,5
Motor vehicles, parts and accessories and other transport equipment	10,9	7,9	8,6
Motor vehicles	4,9	3,2	3,9
Bodies for motor vehicles, trailers and semi-trailers	0,5	0,6	0,5
Parts and accessories	4,7	2,9	3,0
Other transport equipment	0,9	1,2	1,2
Other manufacturing divisions	5,2	3,2	4,1
Furniture	1,3	0,9	1,1
Other manufacturing groups	3,9	2,3	3,0
Total	100,0	100,0	100,0

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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