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Statistical release

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Manufacturing: Production and sales (Preliminary)

May 2013

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This is the first statistical release presenting production indices with base year 2010=100 as well as 2010 weights as obtained from the 2010 national accounts value added weights. Previously, the base year was 2005=100 and the weights were based on the 2005 large sample survey of the manufacturing industry.

Enquiries:

User information services
Tel. (012) 310 8600

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Key figures for May 2013

Table A – Manufacturing production and sales

Estimates	May 2013	% change between May 2012 and May 2013	% change between March to May 2012 and March to May 2013	% change between January to May 2012 and January to May 2013
Physical volume of manufacturing production index (base: 2010=100)	109,1	2,2	2,5	1,7
Total estimated sales of manufactured products (R million)	138 103	8,5	8,3	7,5

Seasonally adjusted estimates	May 2013	% change between April and May 2013	% change between December 2012 to February 2013 and March to May 2013
Physical volume of manufacturing production index (base: 2010=100)	108,6	-1,7	0,9
Total value of sales of manufactured products (R million)	137 679	-1,6	2,3

Manufacturing production increased by 2,2% in May 2013 compared with May 2012.

The 2,2% year-on-year increase in manufacturing production in May 2013 was mainly due to higher production in the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (11,0% and contributing 2,2 percentage points);
- motor vehicles, parts and accessories and ‘other’ transport equipment (6,7% and contributing 0,6 of a percentage point);
- glass and non-metallic mineral products (3,8% and contributing 0,2 of a percentage point); and
- food and beverages (0,7% and contributing 0,2 of a percentage point) (see Table 4b).

Seasonally adjusted manufacturing production for the three months ended May 2013 increased by 0,9% compared with the previous three months. Seven of the ten manufacturing divisions reported positive growth rates over this period.

The largest positive contributions to the increase of 0,9% were made by the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (4,8% and contributing 0,9 of a percentage point);
- motor vehicles, parts and accessories and ‘other’ transport equipment (7,4% and contributing 0,6 of a percentage point);
- food and beverages (1,7% and contributing 0,4 of a percentage point); and
- electrical machinery (8,0% and contributing 0,2 of a percentage point) (see Table B).

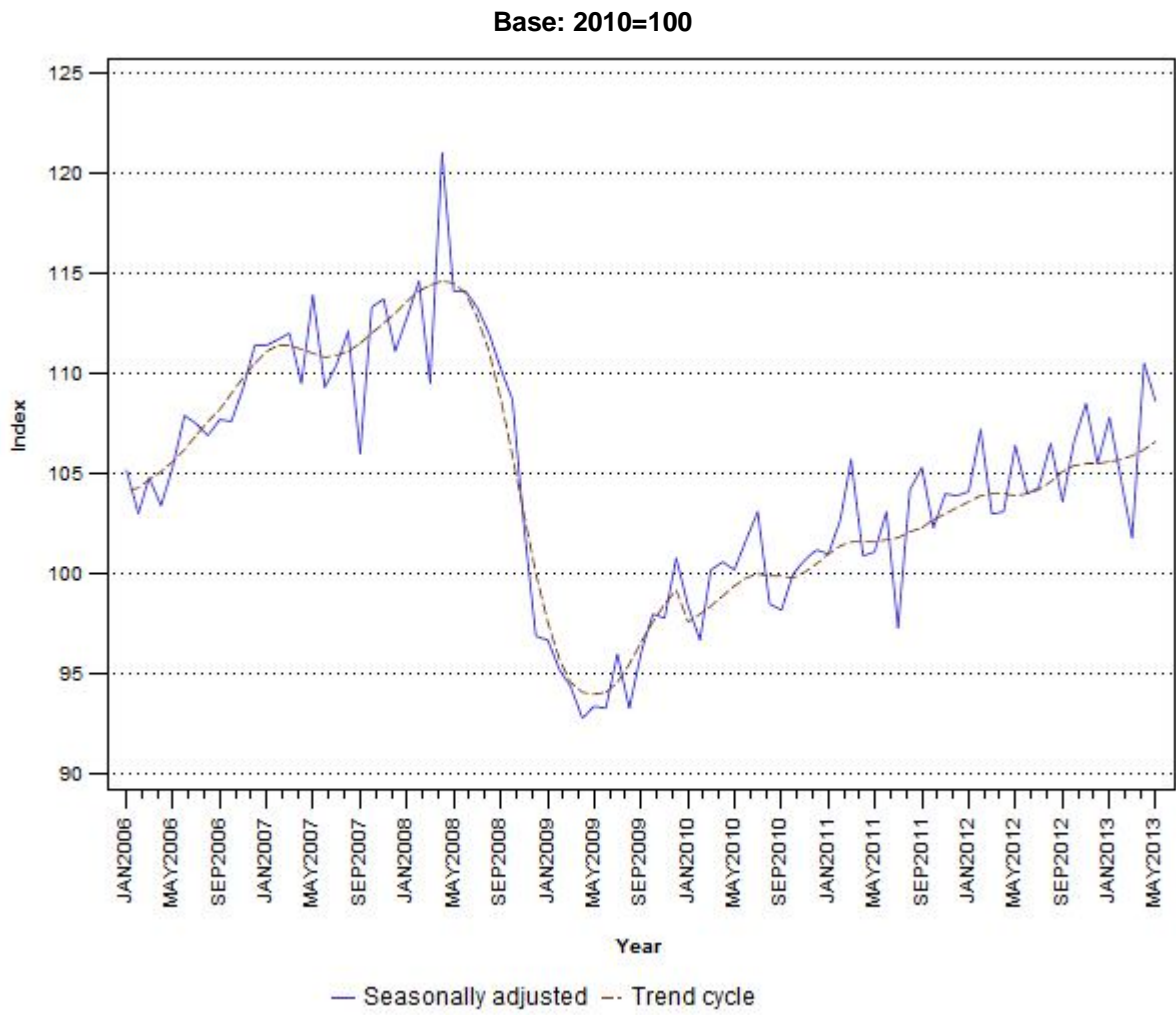
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average seasonally adjusted production index for December 2012 to February 2013	Average seasonally adjusted production index for March to May 2013	Quarterly % change of March to May 2013 compared with the preceding three months	Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/
Food and beverages	22,1	106,2	108,0	1,7	0,4
-Meat, fish, fruit, etc.	4,4	102,9	108,9	5,8	0,2
-Dairy products	2,2	104,6	109,9	5,1	0,1
-Grain mill products	2,7	105,5	109,5	3,8	0,1
-Other food products	6,4	103,5	107,9	4,3	0,3
-Beverages	6,4	112,1	106,2	-5,3	-0,4
Textiles, clothing, leather and footwear	3,5	95,5	97,8	2,4	0,1
-Textiles	1,1	86,8	89,1	2,6	0,0
-Wearing apparel	1,7	99,2	101,5	2,3	0,0
-Leather and leather products	0,2	107,7	106,9	-0,7	0,0
-Footwear	0,5	97,7	101,2	3,6	0,0
Wood and wood products, paper, publishing and printing	9,3	103,4	99,1	-4,2	-0,4
-Wood and products of wood	2,5	100,6	101,2	0,6	0,0
-Paper and paper products	3,2	97,5	97,7	0,2	0,0
-Publishing and printing	3,6	110,5	98,7	-10,7	-0,4
Petroleum, chemical products, rubber and plastic products	25,1	110,7	106,5	-3,8	-1,0
-Coke, petroleum products and nuclear fuel	8,0	104,8	95,5	-8,9	-0,7
-Basic chemicals	5,8	111,6	109,1	-2,2	-0,1
-Other chemical products	7,4	116,2	113,8	-2,1	-0,2
-Rubber products	1,2	114,5	118,4	3,4	0,0
-Plastic products	2,7	109,1	107,9	-1,1	0,0
Glass and non-metallic mineral products	4,9	104,9	107,5	2,5	0,1
-Glass and glass products	0,8	103,8	110,5	6,5	0,1
-Non-metallic mineral products	4,1	105,1	106,9	1,7	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	102,2	107,1	4,8	0,9
-Basic iron and steel products	4,4	89,3	91,2	2,1	0,1
-Basic precious, non-ferrous metal products	3,5	104,7	112,7	7,6	0,3
-Fabricated metal products	5,7	105,6	106,0	0,4	0,0
-Machinery and equipment	6,7	106,6	115,5	8,3	0,6
Electrical machinery	2,4	98,4	106,3	8,0	0,2
Radio, television and communication apparatus and professional equipment	1,3	117,9	126,1	7,0	0,1
-Radio, television and communication apparatus	0,8	127,8	139,0	8,8	0,1
-Professional equipment	0,5	103,9	107,7	3,7	0,0
Motor vehicles, parts and accessories and other transport equipment	7,9	112,3	120,6	7,4	0,6
-Motor vehicles	3,2	129,2	147,9	14,5	0,6
-Bodies for motor vehicles, trailers and semi-trailers	0,6	103,3	112,2	8,6	0,1
-Parts and accessories	2,9	102,5	102,7	0,2	0,0
-Other transport equipment	1,2	95,2	93,7	-1,6	0,0
Furniture and other manufacturing division	3,2	96,4	94,0	-2,5	-0,1
-Furniture	0,9	105,3	109,1	3,6	0,0
-Other manufacturing groups	2,3	92,7	87,6	-5,5	-0,1
Total	100,0	106,0	107,0	0,9	0,9

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 – 2013



Seasonally adjusted sales of manufactured products (at current prices) for the three months ended May 2013 increased by 2,3% (R9 017 million) compared with the previous three months. Eight of the ten manufacturing divisions reported positive growth rates over this period.

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were motor vehicles, parts and accessories and 'other' transport equipment (7,2% or R3 504 million); basic iron and steel, non-ferrous metal products, metal products and machinery (4,0% or R3 389 million); food and beverages (2,0% or R1 611 million) and glass and non-metallic mineral products (9,6% or R1 163 million) (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 2012 to February 2013	Seasonally adjusted sales March to May 2013	% change between December 2012 to February 2013 and March to May 2013	Difference in seasonally adjusted sales of manufacturing divisions between December 2012 to February 2013 and March to May 2013
	R'000	R'000	%	R'000
Food and beverages	80 618 961	82 230 375	2,0	1 611 414
-Food and food products	59 579 106	62 242 982	4,5	2 663 876
-Beverages	21 039 855	19 987 394	-5,0	-1 052 461
Textiles, clothing, leather and footwear	10 238 304	10 708 082	4,6	469 778
-Textiles	3 601 326	3 920 784	8,9	319 458
-Wearing apparel	4 223 715	4 432 605	4,9	208 890
-Leather and leather products	1 466 749	1 407 683	-4,0	-59 066
-Footwear	946 513	947 011	0,1	498
Wood and wood products, paper, publishing and printing	30 409 062	29 945 071	-1,5	-463 991
-Wood and products of wood	6 295 956	6 435 981	2,2	140 025
-Paper and paper products	13 374 409	13 604 199	1,7	229 790
-Publishing and printing	10 738 694	9 904 891	-7,8	-833 803
Petroleum, chemical products, rubber and plastic products	101 889 203	99 512 442	-2,3	-2 376 761
-Coke, petroleum products and nuclear fuel	45 479 310	41 439 152	-8,9	-4 040 158
-Basic chemicals	20 148 163	21 284 269	5,6	1 136 106
-Other chemical products	20 962 879	21 243 425	1,3	280 546
-Rubber products	4 088 099	4 217 952	3,2	129 853
-Plastic products	11 210 752	11 327 644	1,0	116 892
Glass and non-metallic mineral products	12 135 597	13 298 153	9,6	1 162 556
-Glass and glass products	2 150 153	2 334 687	8,6	184 534
-Non-metallic mineral products	9 985 443	10 963 467	9,8	978 024
Basic iron and steel, non-ferrous metal products, metal products and machinery	83 902 483	87 291 125	4,0	3 388 642
-Basic iron and steel products	25 409 082	25 588 332	0,7	179 250
-Basic precious, non-ferrous metal products	16 877 375	17 406 530	3,1	529 155
-Fabricated metal products	21 629 857	22 066 518	2,0	436 661
-Machinery and equipment	19 986 167	22 229 744	11,2	2 243 577
Electrical machinery	11 038 288	11 775 201	6,7	736 913
Radio, television and communication apparatus and professional equipment	3 764 934	3 996 901	6,2	231 967
-Radio, television and communication apparatus	1 926 166	2 050 590	6,5	124 424
-Professional equipment	1 838 767	1 946 310	5,8	107 543
Motor vehicles, parts and accessories and other transport equipment	48 847 709	52 352 063	7,2	3 504 354
-Motor vehicles, trailers, parts and accessories	44 380 169	47 895 683	7,9	3 515 514
-Other transport equipment	4 467 539	4 456 380	-0,2	-11 159
Furniture and other manufacturing division	15 231 047	15 983 070	4,9	752 023
-Furniture	3 387 210	3 444 831	1,7	57 621
-Other manufacturing groups	11 843 837	12 538 238	5,9	694 401
Total	398 075 589	407 092 485	2,3	9 016 896

Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2013



PJ Lehohla
Statistician-General

Note: Construction of a new index of physical volume of manufacturing production by adjusting the base period from 2005=100 to 2010=100 and changing the weights

Introduction

Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry covering manufacturing enterprises. This statistical release contains monthly indices of the physical volume of manufacturing production and monthly sales of manufactured products. In accordance with international best practice and considerations of quality improvement, the indices are rebased and new weights are introduced at least every five years. From 2014, the weights for the manufacturing production indices will be updated annually. The results of the manufacturing production indices published today contain changes related to rebasing and reweighting.

Rebasing

The base year is the reference point of an index and is usually set at 100. The new index of manufacturing production is now referenced to 2010=100 from 2005=100 previously. To convert the base year from reference year 2005 to 2010, the previous individual indices (2005=100) were divided by their averages for 2010 and multiplied by 100. The rebasing of indices was done on all major groups of manufacturing and aggregated to the manufacturing divisions. The results of the rebasing exercise alone did not have any significant effect on the manufacturing trends.

Reweighting

The second step (after rebasing) was the introduction of new weights. In 2012, Stats SA published the national accounts value added weights for 2010. It is on the basis of these weights that new value added weights were calculated for each major group in manufacturing. Previously, the weights were calculated from the 2005 large sample survey of the manufacturing industry. The new and old weights are shown in Table D below and in more detail in Table E on page 22. The new weights have been applied to the manufacturing production indices starting from January 2010. In mid-2014, the manufacturing indices will be reweighted based on the 2011 national accounts value added weights starting from January 2011.

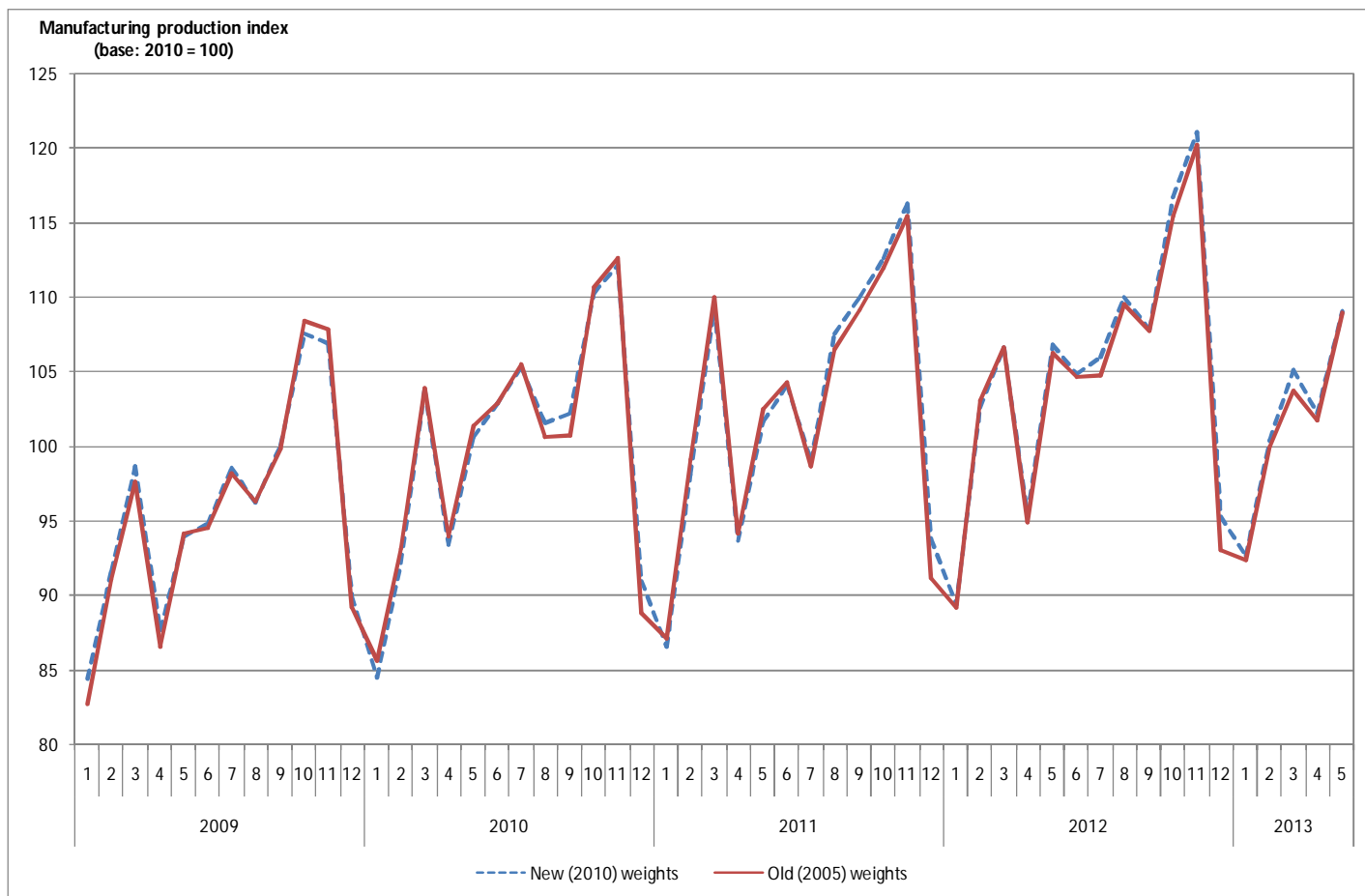
The impact of the implementation of reweighting on the index of manufacturing production is illustrated in Table D and Figure 3. For comparison purposes, both series (old weights and new weights) have base year 2010=100 (and the series with new weights is shown for 2009 for comparison only).

Table D – Comparison of manufacturing production indices based on 2005 and 2010 weights

Manufacturing divisions	Weights 2005	Weights 2010	Year to date year-on-year % change for 2013 (base: 2010=100)		Difference in results (percentage points)
			Using 2005 weights (percentage) 1/	Using 2010 weights (percentage) 1/	
Food and beverages	15,4	22,1	3,0	2,7	-0,3
Textiles, clothing, leather and footwear	4,9	3,5	1,8	1,6	-0,2
Wood and wood products, paper, publishing and printing	10,2	9,3	-1,1	-1,2	-0,1
Petroleum, chemical products, rubber and plastic products	22,1	25,1	2,4	3,1	0,7
Glass and non-metallic mineral products	4,8	4,9	0,1	-0,2	-0,3
Basic iron and steel, non-ferrous metal and metal products and machinery	22,9	20,3	-0,4	0,2	0,6
Electrical machinery	2,5	2,4	1,2	1,9	0,7
Radio, television and communication apparatus and professional equipment	1,1	1,3	1,0	4,4	3,4
Motor vehicles, parts and accessories and other transport equipment	10,9	7,9	6,9	5,9	-1,0
Furniture and other manufacturing division	5,2	3,2	-7,3	-7,5	-0,2
Total manufacturing	100,0	100,0	1,4	1,7	0,3

1/ Up to May 2013

Figure 3 – Comparison of the total manufacturing production index based on 2005 and 2010 weights



Detailed results

Table 1 – Total index of the physical volume of manufacturing production: 2007 – 2013

Base: 2010=100

Month	2007	2008	2009	2010	2011	2012	2013
Jan	96,4	97,1	82,7	84,5	86,6	89,4	92,7
Feb	106,7	109,4	91,1	92,2	98,1	102,6	100,4
Mar	115,6	113,1	97,6	103,8	109,4	106,6	1/ 105,1
Apr	102,6	112,8	86,6	93,4	93,7	95,4	1/ 102,2
May	115,1	115,4	94,2	100,6	101,7	106,8	1/ 109,1
Jun	110,7	115,7	94,5	102,9	104,1	104,9	
Jul	113,1	116,0	98,2	105,3	99,0	106,0	
Aug	116,1	115,8	96,3	101,6	107,6	109,9	
Sep	110,1	114,4	99,9	102,2	110,0	107,9	
Oct	125,9	120,8	108,4	110,3	112,6	116,8	
Nov	125,9	113,7	107,9	112,2	116,3	121,1	
Dec	97,2	86,3	89,2	91,0	93,8	95,3	
Year	111,3	110,9	95,6	100,0	102,7	105,2	

1/ Preliminary.

Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2007 – 2013

2/

Month	2007	2008	2009	2010	2011	2012	2013
Jan	5,4	0,7	-14,8	2,2	2,5	3,2	3,7
Feb	8,1	2,5	-16,7	1,2	6,4	4,6	-2,1
Mar	6,9	-2,2	-13,7	6,4	5,4	-2,6	-1,4
Apr	5,4	9,9	-23,2	7,9	0,3	1,8	7,1
May	8,2	0,3	-18,4	6,8	1,1	5,0	2,2
Jun	1,6	4,5	-18,3	8,9	1,2	0,8	
Jul	3,1	2,6	-15,3	7,2	-6,0	7,1	
Aug	4,8	-0,3	-16,8	5,5	5,9	2,1	
Sep	-1,5	3,9	-12,7	2,3	7,6	-1,9	
Oct	5,4	-4,1	-10,3	1,8	2,1	3,7	
Nov	4,0	-9,7	-5,1	4,0	3,7	4,1	
Dec	-0,2	-11,2	3,4	2,0	3,1	1,6	
Year	4,2	-0,4	-13,8	4,6	2,7	2,4	

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: 2007 – 2013

Base: 2010=100

Month	2007	2008	2009	2010	2011	2012	2013
Jan	111,4	112,8	96,7	98,4	101,0	104,1	107,8
Feb	111,7	114,6	95,2	96,7	102,7	107,2	104,6
Mar	112,0	109,5	94,4	100,2	105,7	103,0	101,8
Apr	109,5	121,0	92,8	100,6	100,9	103,1	110,5
May	113,9	114,1	93,4	100,2	101,1	106,4	108,6
Jun	109,3	114,1	93,3	101,7	103,1	104,0	
Jul	110,4	113,3	96,0	103,1	97,3	104,3	
Aug	112,1	112,0	93,3	98,5	104,2	106,5	
Sep	106,0	110,2	96,1	98,2	105,3	103,6	
Oct	113,3	108,7	98,0	100,0	102,3	106,6	
Nov	113,7	102,2	97,8	100,7	104,0	108,5	
Dec	111,1	96,9	100,8	101,2	103,9	105,5	

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 2010	Average for 2012	Actual indices			Seasonally adjusted indices		
			May 2012	1/ April 2013	1/ May 2013	May 2012	April 2013	May 2013
Food and beverages	22,1	104,4	107,5	99,2	108,3	108,9	110,1	109,4
-Meat, fish, fruit, etc.	4,4	106,4	113,7	106,7	112,1	112,9	111,6	111,3
-Dairy products	2,2	108,8	102,4	101,8	103,2	111,0	109,3	111,7
-Grain mill products	2,7	105,1	105,1	106,3	109,0	106,1	116,0	109,9
-Other food products	6,4	97,4	114,4	99,4	119,2	105,8	109,7	110,1
-Beverages	6,4	108,0	99,3	90,0	96,2	109,6	107,1	106,3
Textiles, clothing, leather and footwear	3,5	95,7	95,6	97,8	100,1	95,0	100,3	99,7
-Textiles	0,7	87,1	94,6	84,8	84,6	90,3	87,2	81,4
-Other textile products	0,4	96,4	96,3	97,9	105,9	95,7	104,5	105,0
-Knitted, crocheted articles	0,1	71,5	71,9	74,3	79,8	60,9	65,1	67,9
-Wearing apparel	1,6	98,7	93,5	103,7	103,0	95,4	104,0	105,2
-Leather and leather products	0,2	107,2	117,6	105,8	116,8	111,4	108,3	110,2
-Footwear	0,5	95,8	97,0	97,0	102,5	97,2	104,6	103,1
Wood and wood products, paper, publishing and printing	9,3	103,9	99,3	90,3	99,0	100,4	102,2	100,5
-Sawmilling and planing of wood	0,8	106,8	109,3	100,8	107,5	107,5	105,9	105,6
-Products of wood	1,7	100,3	101,6	92,3	100,8	101,1	102,9	100,3
-Paper and paper products	3,2	98,6	96,5	90,5	97,2	98,5	99,9	99,6
-Publishing	1,4	115,4	94,1	95,1	98,8	96,8	106,2	102,3
-Printing, recorded media	2,2	105,6	101,1	81,4	97,1	102,5	100,8	98,7
Petroleum, chemical products, rubber and plastic products	25,1	107,2	106,9	106,1	104,1	107,0	110,5	104,6
-Coke, petroleum products and nuclear fuel	8,0	104,1	103,3	105,6	87,2	99,7	103,7	84,5
-Basic chemicals	5,8	106,9	106,0	102,3	109,4	106,8	108,6	110,0
-Other chemical products	7,4	109,1	106,4	108,7	112,0	110,7	117,0	116,7
-Rubber products	1,2	116,4	131,6	121,0	131,0	125,6	127,3	124,9
-Plastic products	2,7	107,7	109,8	102,4	109,3	111,1	109,7	110,5
Glass and non-metallic mineral products	4,9	103,8	110,7	102,6	114,9	108,1	111,4	112,2
-Glass and glass products	0,8	104,1	90,8	99,4	102,1	101,3	111,4	114,2
-Non-metallic mineral products	4,1	103,7	114,5	103,2	117,4	109,4	111,4	111,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	103,3	104,1	114,7	101,6	110,2	112,4
-Basic iron and steel products	4,4	92,2	90,9	99,4	114,1	83,2	94,7	104,6
-Non-ferrous metal products	3,5	97,3	87,6	108,0	114,9	87,6	112,6	115,2
-Structural metal products	1,9	98,1	99,1	82,2	88,2	97,6	87,9	87,4
-Other fabricated metal products	3,8	113,1	116,5	108,7	123,7	112,8	118,0	119,5
-General purpose machinery	2,3	109,8	115,0	104,1	109,0	114,9	116,1	108,5
-Special purpose machinery	3,5	112,0	111,5	110,5	121,9	115,8	123,3	125,8
-Household appliances	0,9	113,7	115,0	112,6	119,9	116,0	124,1	121,1
Electrical machinery	2,4	101,3	105,6	101,5	107,8	105,6	108,0	107,7
Radio, television and communication apparatus and professional equipment	1,3	121,7	114,7	118,1	114,5	119,6	136,4	120,9
-Radio, television and communication apparatus	0,8	130,1	112,5	126,4	121,7	123,3	156,6	134,3
-Professional equipment	0,5	109,8	117,9	106,4	104,4	114,4	107,8	102,0
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	120,1	116,0	128,1	115,9	129,4	124,2
-Motor vehicles	3,2	124,2	133,6	143,6	150,9	132,2	165,5	151,1
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	126,6	114,7	132,1	117,1	116,0	121,5
-Parts and accessories	2,9	99,9	111,8	99,5	115,5	104,1	106,1	107,3
-Other transport equipment	1,2	99,3	99,7	80,9	93,7	99,1	94,4	93,1
Furniture and other manufacturing division	3,2	103,6	117,4	79,1	99,0	112,9	93,7	95,2
-Furniture	0,9	111,5	116,1	99,2	113,3	114,0	109,9	111,1
-Other manufacturing groups	2,3	100,3	118,0	70,7	92,9	112,5	86,9	88,6
Total	100,0	105,2	106,8	102,2	109,1	106,4	110,5	108,6

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 2010	Average for 2012	Actual indices			Seasonally adjusted indices		
			May 2012	1/ May 2013	% change between May 2012 and May 2013	April 2013	May 2013	% change between April and May 2013
Food and beverages	22,1	104,4	107,5	108,3	0,7	110,1	109,4	-0,6
-Meat, fish, fruit, etc.	4,4	106,4	113,7	112,1	-1,4	111,6	111,3	-0,3
-Dairy products	2,2	108,8	102,4	103,2	0,8	109,3	111,7	2,2
-Grain mill products	2,7	105,1	105,1	109,0	3,7	116,0	109,9	-5,3
-Other food products	6,4	97,4	114,4	119,2	4,2	109,7	110,1	0,4
-Beverages	6,4	108,0	99,3	96,2	-3,1	107,1	106,3	-0,7
Textiles, clothing, leather and footwear	3,5	95,7	95,6	100,1	4,7	100,3	99,7	-0,6
-Textiles	0,7	87,1	94,6	84,6	-10,6	87,2	81,4	-6,7
-Other textile products	0,4	96,4	96,3	105,9	10,0	104,5	105,0	0,5
-Knitted, crocheted articles	0,1	71,5	71,9	79,8	11,0	65,1	67,9	4,3
-Wearing apparel	1,6	98,7	93,5	103,0	10,2	104,0	105,2	1,2
-Leather and leather products	0,2	107,2	117,6	116,8	-0,7	108,3	110,2	1,8
-Footwear	0,5	95,8	97,0	102,5	5,7	104,6	103,1	-1,4
Wood and wood products, paper, publishing and printing	9,3	103,9	99,3	99,0	-0,3	102,2	100,5	-1,7
-Sawmilling and planing of wood	0,8	106,8	109,3	107,5	-1,6	105,9	105,6	-0,3
-Products of wood	1,7	100,3	101,6	100,8	-0,8	102,9	100,3	-2,5
-Paper and paper products	3,2	98,6	96,5	97,2	0,7	99,9	99,6	-0,3
-Publishing	1,4	115,4	94,1	98,8	5,0	106,2	102,3	-3,7
-Printing, recorded media	2,2	105,6	101,1	97,1	-4,0	100,8	98,7	-2,1
Petroleum, chemical products, rubber and plastic products	25,1	107,2	106,9	104,1	-2,6	110,5	104,6	-5,3
-Coke, petroleum products and nuclear fuel	8,0	104,1	103,3	87,2	-15,6	103,7	84,5	-18,5
-Basic chemicals	5,8	106,9	106,0	109,4	3,2	108,6	110,0	1,3
-Other chemical products	7,4	109,1	106,4	112,0	5,3	117,0	116,7	-0,3
-Rubber products	1,2	116,4	131,6	131,0	-0,5	127,3	124,9	-1,9
-Plastic products	2,7	107,7	109,8	109,3	-0,5	109,7	110,5	0,7
Glass and non-metallic mineral products	4,9	103,8	110,7	114,9	3,8	111,4	112,2	0,7
-Glass and glass products	0,8	104,1	90,8	102,1	12,4	111,4	114,2	2,5
-Non-metallic mineral products	4,1	103,7	114,5	117,4	2,5	111,4	111,8	0,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	103,3	114,7	11,0	110,2	112,4	2,0
-Basic iron and steel products	4,4	92,2	90,9	114,1	25,5	94,7	104,6	10,5
-Non-ferrous metal products	3,5	97,3	87,6	114,9	31,2	112,6	115,2	2,3
-Structural metal products	1,9	98,1	99,1	88,2	-11,0	87,9	87,4	-0,6
-Other fabricated metal products	3,8	113,1	116,5	123,7	6,2	118,0	119,5	1,3
-General purpose machinery	2,3	109,8	115,0	109,0	-5,2	116,1	108,5	-6,5
-Special purpose machinery	3,5	112,0	111,5	121,9	9,3	123,3	125,8	2,0
-Household appliances	0,9	113,7	115,0	119,9	4,3	124,1	121,1	-2,4
Electrical machinery	2,4	101,3	105,6	107,8	2,1	108,0	107,7	-0,3
Radio, television and communication apparatus and professional equipment	1,3	121,7	114,7	114,5	-0,2	136,4	120,9	-11,4
-Radio, television and communication apparatus	0,8	130,1	112,5	121,7	8,2	156,6	134,3	-14,2
-Professional equipment	0,5	109,8	117,9	104,4	-11,5	107,8	102,0	-5,4
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	120,1	128,1	6,7	129,4	124,2	-4,0
-Motor vehicles	3,2	124,2	133,6	150,9	12,9	165,5	151,1	-8,7
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	126,6	132,1	4,3	116,0	121,5	4,7
-Parts and accessories	2,9	99,9	111,8	115,5	3,3	106,1	107,3	1,1
-Other transport equipment	1,2	99,3	99,7	93,7	-6,0	94,4	93,1	-1,4
Furniture and other manufacturing division	3,2	103,6	117,4	99,0	-15,7	93,7	95,2	1,6
-Furniture	0,9	111,5	116,1	113,3	-2,4	109,9	111,1	1,1
-Other manufacturing groups	2,3	100,3	118,0	92,9	-21,3	86,9	88,6	2,0
Total	100,0	105,2	106,8	109,1	2,2	110,5	108,6	-1,7

1/ Preliminary.

Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2007 – 2013

Month	2007	2008	2009	2010	2011	2012	2013
Jan	82 751 979	92 718 406	87 095 583	88 149 838	94 246 838	104 935 789	113 831 610
Feb	94 752 037	109 968 010	98 910 325	99 414 819	108 823 746	122 863 314	128 312 844
Mar	101 801 537	116 559 343	106 853 461	112 150 984	123 042 345	130 042 791	1/ 134 348 925
Apr	92 055 334	118 743 978	91 481 056	99 179 387	105 427 353	114 751 285	1/ 130 508 935
May	103 294 995	122 009 401	97 891 568	106 725 647	114 987 796	127 234 354	1/ 138 102 724
Jun	100 363 915	126 717 920	99 620 665	110 984 952	119 312 466	127 603 367	
Jul	101 001 703	130 306 185	101 194 755	110 310 285	110 290 349	124 597 549	
Aug	106 756 672	128 075 397	102 171 776	107 873 773	121 774 032	130 989 591	
Sep	102 072 116	127 557 225	106 385 385	110 151 480	129 822 841	128 466 040	
Oct	115 324 079	133 838 287	111 499 001	118 674 521	130 325 799	140 601 491	
Nov	117 861 959	124 514 657	113 598 170	123 230 894	135 588 107	149 196 393	
Dec	93 460 862	97 565 655	96 538 722	101 389 781	114 218 802	120 093 122	
Year	1 211 497 188	1 428 574 464	1 213 240 467	1 288 236 361	1 407 860 474	1 521 375 086	

1/ Preliminary.

Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2007 – 2013 2/

Month	2007	2008	2009	2010	2011	2012	2013
Jan	20,8	12,0	-6,1	1,2	6,9	11,3	8,5
Feb	24,3	16,1	-10,1	0,5	9,5	12,9	4,4
Mar	20,3	14,5	-8,3	5,0	9,7	5,7	3,3
Apr	21,3	29,0	-23,0	8,4	6,3	8,8	13,7
May	21,1	18,1	-19,8	9,0	7,7	10,7	8,5
Jun	12,5	26,3	-21,4	11,4	7,5	6,9	
Jul	11,8	29,0	-22,3	9,0	0,0	13,0	
Aug	13,4	20,0	-20,2	5,6	12,9	7,6	
Sep	6,0	25,0	-16,6	3,5	17,9	-1,0	
Oct	13,4	16,1	-16,7	6,4	9,8	7,9	
Nov	12,0	5,6	-8,8	8,5	10,0	10,0	
Dec	11,3	4,4	-1,1	5,0	12,7	5,1	
Year	15,2	17,9	-15,1	6,2	9,3	8,1	

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): 2007 – 2013

Month	2007	2008	2009	2010	2011	2012	2013
Jan	98 464 078	110 170 585	104 050 282	104 921 445	111 610 665	123 284 278	133 768 134
Feb	99 129 760	115 342 183	103 390 674	103 513 721	113 186 774	127 986 014	133 428 372
Mar	98 747 019	112 829 926	103 028 542	107 635 002	118 192 242	125 235 860	129 454 881
Apr	98 576 762	127 302 993	98 330 908	106 722 978	113 080 308	122 995 641	139 958 317
May	102 834 176	121 331 568	98 170 456	106 855 734	114 540 651	126 775 542	137 679 287
Jun	98 375 656	123 602 024	97 659 811	108 652 573	116 866 860	125 019 491	
Jul	98 967 152	127 311 950	99 737 437	109 149 215	109 675 425	124 233 075	
Aug	103 317 019	123 859 256	99 522 479	105 614 178	119 451 031	128 573 142	
Sep	96 845 699	121 092 491	101 184 195	104 735 532	123 722 387	122 731 354	
Oct	104 757 070	121 692 856	101 718 633	108 604 709	119 880 511	129 811 402	
Nov	106 114 677	111 984 278	101 959 613	110 048 588	121 006 849	133 482 997	
Dec	104 893 284	108 094 732	106 137 935	111 265 310	125 210 343	130 879 083	

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 2012	Actual values			Seasonally adjusted values		
		May 2012	1/ April 2013	1/ May 2013	May 2012	April 2013	May 2013
Food and beverages	310 753 020	25 108 618	25 805 724	26 681 419	26 205 535	27 883 509	27 812 326
-Meat, fish, fruit, etc.	80 244 635	6 863 157	6 843 012	7 260 291	6 861 865	7 273 273	7 261 279
-Dairy products	27 286 839	2 229 585	2 395 415	2 406 126	2 346 355	2 540 589	2 526 554
-Grain mill products	54 399 835	4 406 350	4 791 325	4 890 308	4 483 059	5 222 301	4 977 688
-Other food products	70 581 062	5 852 592	6 182 625	6 208 783	5 884 114	6 323 870	6 239 388
-Beverages	78 240 649	5 756 934	5 593 347	5 915 911	6 630 142	6 523 476	6 807 418
Textiles, clothing, leather and footwear	39 829 374	3 338 339	3 596 178	3 706 057	3 274 739	3 688 379	3 635 405
-Textiles	4 467 256	379 893	418 641	432 998	362 033	426 620	414 220
-Other textile products	10 005 194	843 865	877 957	953 495	818 900	913 584	927 296
-Knitted, crocheted articles	1 720 830	145 154	165 734	178 703	120 773	153 083	149 495
-Wearing apparel	14 738 223	1 204 964	1 340 565	1 337 437	1 215 097	1 352 467	1 348 372
-Leather and leather products	5 345 948	472 916	484 592	498 581	455 734	512 122	479 694
-Footwear	3 551 923	291 547	308 689	304 843	302 202	330 503	316 328
Wood and wood products, paper, publishing and printing	120 098 223	9 529 064	9 175 612	9 876 471	9 568 369	10 373 781	9 937 131
-Sawmilling and planing of wood	8 934 002	757 691	722 733	749 968	764 329	771 123	755 903
-Products of wood	16 623 711	1 351 242	1 319 757	1 391 028	1 351 341	1 446 792	1 395 748
-Paper and paper products	52 397 430	4 289 293	4 184 698	4 468 905	4 287 356	4 751 407	4 467 769
-Publishing	18 207 329	1 215 238	1 314 149	1 361 656	1 241 715	1 434 180	1 399 718
-Printing, recorded media	23 935 751	1 915 600	1 634 275	1 904 914	1 923 628	1 970 279	1 917 993
Petroleum, chemical products, rubber and plastic products	371 139 667	31 030 872	32 907 020	34 424 404	30 245 060	34 016 997	33 469 427
-Coke, petroleum products and nuclear fuel	159 593 866	13 307 213	14 318 352	15 026 025	12 186 245	14 001 574	13 717 994
-Basic chemicals	76 583 427	6 359 006	6 915 618	7 196 646	6 447 791	7 434 283	7 275 767
-Other chemical products	75 688 106	6 251 611	6 685 743	6 894 624	6 465 524	7 133 860	7 137 500
-Rubber products	15 688 483	1 389 924	1 416 984	1 441 424	1 399 447	1 574 496	1 454 098
-Plastic products	43 585 785	3 723 118	3 570 323	3 865 685	3 746 053	3 872 784	3 884 068
Glass and non-metallic mineral products	47 460 718	4 180 581	4 112 174	4 507 072	4 204 865	4 643 515	4 541 097
-Glass and glass products	8 181 045	601 647	667 212	698 440	688 413	790 834	801 041
-Non-metallic mineral products	39 279 673	3 578 934	3 444 962	3 808 632	3 516 452	3 852 682	3 740 056
Basic iron and steel, non-ferrous metal products, metal products and machinery	325 860 391	27 935 072	28 484 560	30 399 630	27 306 649	30 204 763	29 735 959
-Basic iron and steel products	97 345 301	8 879 265	8 428 098	9 489 084	8 198 896	8 549 586	8 789 890
-Non-ferrous metal products	61 964 728	4 828 622	5 962 889	5 923 486	4 832 889	5 971 062	5 932 513
-Structural metal products	29 182 727	2 360 131	2 141 004	2 320 343	2 377 756	2 333 581	2 350 649
-Other fabricated metal products	56 428 755	4 930 438	4 967 592	5 277 327	4 843 788	5 519 888	5 174 320
-General purpose machinery	30 729 277	2 695 685	2 540 948	2 737 252	2 692 244	2 844 248	2 721 701
-Special purpose machinery	40 218 784	3 371 550	3 560 998	3 755 407	3 503 964	4 016 283	3 884 356
-Household appliances	9 990 819	869 381	883 031	896 731	857 113	970 115	882 530
Electrical machinery	44 835 132	4 015 779	3 724 477	4 020 400	3 925 026	4 012 204	3 942 701
Radio, television and communication apparatus and professional equipment	15 243 304	1 171 648	1 243 813	1 275 404	1 213 620	1 385 466	1 343 599
-Radio, television and communication apparatus	7 500 083	510 102	605 931	643 792	574 698	686 826	731 571
-Professional equipment	7 743 221	661 546	637 882	631 612	638 922	698 640	612 028
Motor vehicles, parts and accessories and other transport equipment	183 642 534	15 400 812	16 539 557	17 668 184	15 406 081	18 549 317	17 840 076
-Motor vehicles	93 050 573	7 574 440	8 968 531	9 496 417	7 812 662	10 224 271	9 889 669
-Bodies for motor vehicles, trailers and semi-trailers	8 600 730	840 706	756 045	832 430	834 043	805 418	825 449
-Parts and accessories	63 923 511	5 475 592	5 534 287	5 851 620	5 263 702	6 034 208	5 653 322
-Other transport equipment	18 067 720	1 510 074	1 280 694	1 487 717	1 495 674	1 485 420	1 471 635
Furniture and other manufacturing division	62 512 723	5 523 569	4 919 820	5 543 683	5 425 599	5 200 384	5 421 566
-Furniture	13 926 915	1 202 369	1 064 030	1 182 542	1 184 360	1 175 153	1 164 156
-Other manufacturing groups	48 585 808	4 321 200	3 855 790	4 361 141	4 241 239	4 025 230	4 257 410
Total	1 521 375 086	127 234 354	130 508 935	138 102 724	126 775 542	139 958 317	137 679 287

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 2012	Actual values			Seasonally adjusted values		
		May 2012	1/ May 2013	% change between May 2012 and May 2013	April 2013	May 2013	% change between April and May 2013
Food and beverages	310 753 020	25 108 618	26 681 419	6,3	27 883 509	27 812 326	-0,3
-Meat, fish, fruit, etc.	80 244 635	6 863 157	7 260 291	5,8	7 273 273	7 261 279	-0,2
-Dairy products	27 286 839	2 229 585	2 406 126	7,9	2 540 589	2 526 554	-0,6
-Grain mill products	54 399 835	4 406 350	4 890 308	11,0	5 222 301	4 977 688	-4,7
-Other food products	70 581 062	5 852 592	6 208 783	6,1	6 323 870	6 239 388	-1,3
-Beverages	78 240 649	5 756 934	5 915 911	2,8	6 523 476	6 807 418	4,4
Textiles, clothing, leather and footwear	39 829 374	3 338 339	3 706 057	11,0	3 688 379	3 635 405	-1,4
-Textiles	4 467 256	379 893	432 998	14,0	426 620	414 220	-2,9
-Other textile products	10 005 194	843 865	953 495	13,0	913 584	927 296	1,5
-Knitted, crocheted articles	1 720 830	145 154	178 703	23,1	153 083	149 495	-2,3
-Wearing apparel	14 738 223	1 204 964	1 337 437	11,0	1 352 467	1 348 372	-0,3
-Leather and leather products	5 345 948	472 916	498 581	5,4	512 122	479 694	-6,3
-Footwear	3 551 923	291 547	304 843	4,6	330 503	316 328	-4,3
Wood and wood products, paper, publishing and printing	120 098 223	9 529 064	9 876 471	3,6	10 373 781	9 937 131	-4,2
-Sawmilling and planing of wood	8 934 002	757 691	749 968	-1,0	771 123	755 903	-2,0
-Products of wood	16 623 711	1 351 242	1 391 028	2,9	1 446 792	1 395 748	-3,5
-Paper and paper products	52 397 430	4 289 293	4 468 905	4,2	4 751 407	4 467 769	-6,0
-Publishing	18 207 329	1 215 238	1 361 656	12,0	1 434 180	1 399 718	-2,4
-Printing, recorded media	23 935 751	1 915 600	1 904 914	-0,6	1 970 279	1 917 993	-2,7
Petroleum, chemical products, rubber and plastic products	371 139 667	31 030 872	34 424 404	10,9	34 016 997	33 469 427	-1,6
-Coke, petroleum products and nuclear fuel	159 593 866	13 307 213	15 026 025	12,9	14 001 574	13 717 994	-2,0
-Basic chemicals	76 583 427	6 359 006	7 196 646	13,2	7 434 283	7 275 767	-2,1
-Other chemical products	75 688 106	6 251 611	6 894 624	10,3	7 133 860	7 137 500	0,1
-Rubber products	15 688 483	1 389 924	1 441 424	3,7	1 574 496	1 454 098	-7,6
-Plastic products	43 585 785	3 723 118	3 865 685	3,8	3 872 784	3 884 068	0,3
Glass and non-metallic mineral products	47 460 718	4 180 581	4 507 072	7,8	4 643 515	4 541 097	-2,2
-Glass and glass products	8 181 045	601 647	698 440	16,1	790 834	801 041	1,3
-Non-metallic mineral products	39 279 673	3 578 934	3 808 632	6,4	3 852 682	3 740 056	-2,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	325 860 391	27 935 072	30 399 630	8,8	30 204 763	29 735 959	-1,6
-Basic iron and steel products	97 345 301	8 879 265	9 489 084	6,9	8 549 586	8 789 890	2,8
-Non-ferrous metal products	61 964 728	4 828 622	5 923 486	22,7	5 971 062	5 932 513	-0,6
-Structural metal products	29 182 727	2 360 131	2 320 343	-1,7	2 333 581	2 350 649	0,7
-Other fabricated metal products	56 428 755	4 930 438	5 277 327	7,0	5 519 888	5 174 320	-6,3
-General purpose machinery	30 729 277	2 695 685	2 737 252	1,5	2 844 248	2 721 701	-4,3
-Special purpose machinery	40 218 784	3 371 550	3 755 407	11,4	4 016 283	3 884 356	-3,3
-Household appliances	9 990 819	869 381	896 731	3,1	970 115	882 530	-9,0
Electrical machinery	44 835 132	4 015 779	4 020 400	0,1	4 012 204	3 942 701	-1,7
Radio, television and communication apparatus and professional equipment	15 243 304	1 171 648	1 275 404	8,9	1 385 466	1 343 599	-3,0
-Radio, television and communication apparatus	7 500 083	510 102	643 792	26,2	686 826	731 571	6,5
-Professional equipment	7 743 221	661 546	631 612	-4,5	698 640	612 028	-12,4
Motor vehicles, parts and accessories and other transport equipment	183 642 534	15 400 812	17 668 184	14,7	18 549 317	17 840 076	-3,8
-Motor vehicles	93 050 573	7 574 440	9 496 417	25,4	10 224 271	9 889 669	-3,3
-Bodies for motor vehicles, trailers and semi-trailers	8 600 730	840 706	832 430	-1,0	805 418	825 449	2,5
-Parts and accessories	63 923 511	5 475 592	5 851 620	6,9	6 034 208	5 653 322	-6,3
-Other transport equipment	18 067 720	1 510 074	1 487 717	-1,5	1 485 420	1 471 635	-0,9
Furniture and other manufacturing division	62 512 723	5 523 569	5 543 683	0,4	5 200 384	5 421 566	4,3
-Furniture	13 926 915	1 202 369	1 182 542	-1,6	1 175 153	1 164 156	-0,9
-Other manufacturing groups	48 585 808	4 321 200	4 361 141	0,9	4 025 230	4 257 410	5,8
Total	1 521 375 086	127 234 354	138 102 724	8,5	139 958 317	137 679 287	-1,6

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 2010	Production indices (base: 2010=100)			Value of sales (R'000)		
		Mar. to May 2012	Mar. to May 2013	% change between Mar. to May 2012 and Mar. to May 2013	Mar. to May 2012	Mar. to May 2013	% change between Mar. to May 2012 and Mar. to May 2013
Food and beverages	22,1	100,1	103,5	3,4	73 026 625	78 680 076	7,7
-Meat, fish, fruit, etc.	4,4	108,8	109,6	0,7	19 613 019	21 165 708	7,9
-Dairy products	2,2	103,2	104,5	1,3	6 617 782	7 299 980	10,3
-Grain mill products	2,7	101,7	107,2	5,4	12 934 795	14 522 090	12,3
-Other food products	6,4	95,5	103,1	8,0	16 695 253	17 659 063	5,8
-Beverages	6,4	96,9	97,8	0,9	17 165 776	18 033 235	5,1
Textiles, clothing, leather and footwear	3,5	96,4	98,5	2,2	9 911 836	10 870 192	9,7
-Textiles	0,7	92,4	83,7	-9,4	1 120 588	1 269 979	13,3
-Other textile products	0,4	94,7	101,8	7,5	2 498 383	2 750 504	10,1
-Knitted, crocheted articles	0,1	80,8	75,8	-6,2	481 344	496 606	3,2
-Wearing apparel	1,6	97,5	103,3	5,9	3 599 307	4 000 668	11,2
-Leather and leather products	0,2	111,7	110,0	-1,5	1 348 939	1 436 419	6,5
-Footwear	0,5	95,7	99,2	3,7	863 275	916 016	6,1
Wood and wood products, paper, publishing and printing	9,3	97,3	95,2	-2,2	28 034 123	28 917 318	3,2
-Sawmilling and planing of wood	0,8	106,9	104,0	-2,7	2 225 165	2 225 897	0,0
-Products of wood	1,7	98,5	97,5	-1,0	4 012 301	4 087 688	1,9
-Paper and paper products	3,2	95,0	94,4	-0,6	12 538 591	13 200 607	5,3
-Publishing	1,4	95,4	98,9	3,7	3 739 199	4 094 068	9,5
-Printing, recorded media	2,2	97,4	89,0	-8,6	5 518 867	5 309 058	-3,8
Petroleum, chemical products, rubber and plastic products	25,1	103,9	106,2	2,2	90 511 801	99 952 717	10,4
-Coke, petroleum products and nuclear fuel	8,0	102,0	98,0	-3,9	39 454 415	43 144 973	9,4
-Basic chemicals	5,8	103,2	105,7	2,4	18 510 304	20 676 111	11,7
-Other chemical products	7,4	102,3	112,7	10,2	17 830 354	20 786 920	16,6
-Rubber products	1,2	125,7	123,0	-2,1	4 085 909	4 245 961	3,9
-Plastic products	2,7	106,3	106,0	-0,3	10 630 819	11 098 752	4,4
Glass and non-metallic mineral products	4,9	103,7	106,3	2,5	11 627 098	12 815 739	10,2
-Glass and glass products	0,8	90,7	98,9	9,0	1 743 756	2 014 332	15,5
-Non-metallic mineral products	4,1	106,2	107,7	1,4	9 883 342	10 801 407	9,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	104,7	108,2	3,3	82 358 305	88 491 409	7,4
-Basic iron and steel products	4,4	94,3	98,0	3,9	25 651 329	26 760 222	4,3
-Non-ferrous metal products	3,5	92,2	112,2	21,7	14 685 718	17 611 435	19,9
-Structural metal products	1,9	103,7	85,1	-17,9	7 379 358	6 759 888	-8,4
-Other fabricated metal products	3,8	111,4	115,9	4,0	13 923 916	15 183 259	9,0
-General purpose machinery	2,3	111,9	105,6	-5,6	7 781 651	7 874 273	1,2
-Special purpose machinery	3,5	116,6	120,6	3,4	10 351 102	11 608 068	12,1
-Household appliances	0,9	112,9	116,8	3,5	2 585 231	2 694 264	4,2
Electrical machinery	2,4	105,7	108,6	2,7	11 806 438	12 070 397	2,2
Radio, television and communication apparatus and professional equipment	1,3	109,2	116,7	6,9	3 474 283	3 768 546	8,5
-Radio, television and communication apparatus	0,8	106,2	122,5	15,3	1 566 879	1 832 592	17,0
-Professional equipment	0,5	113,4	108,6	-4,2	1 907 404	1 935 954	1,5
Motor vehicles, parts and accessories and other transport equipment	7,9	111,3	119,5	7,4	45 492 998	51 767 239	13,8
-Motor vehicles	3,2	123,4	143,6	16,4	22 636 433	28 154 169	24,4
-Bodies for motor vehicles, trailers and semi-trailers	0,6	118,6	116,8	-1,5	2 249 900	2 252 388	0,1
-Parts and accessories	2,9	102,3	104,2	1,9	16 255 318	16 996 112	4,6
-Other transport equipment	1,2	96,5	91,9	-4,8	4 351 347	4 364 570	0,3
Furniture and other manufacturing division	3,2	101,4	90,3	-10,9	15 784 923	15 626 951	-1,0
-Furniture	0,9	103,9	102,8	-1,1	3 241 484	3 244 541	0,1
-Other manufacturing groups	2,3	100,4	85,1	-15,2	12 543 439	12 382 410	-1,3
Total	100,0	102,9	105,5	2,5	372 028 430	402 960 584	8,3

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 2013 was 88,4%. Improved collection rate for April 2013 was 92,5%.
- 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 2 996 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 2 996 enterprises, which was drawn in April 2012 from a population then of 49 455 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 and for the period 2010 to 2013, the weights are based on national accounts value added data. 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 E for the fixed weights which were used for the three periods 2001 to 2004, 2005 to 2009 and 2010 to 2013).

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.
 - *SA 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 |
- Change in current issue** 25 The results for manufacturing production as published in the May 2013 release are presented for reference year 2010. Indices of major groups were arithmetically converted to base 2010=100. In addition, new weights (weighting factors) based on weights as obtained from the 2010 national accounts value added weights were implemented for the period from January 2010 in order to obtain division and total manufacturing indices.

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 (SNA)</i> in the same way as in the <i>1993 Standard Industrial Classification of all Economic Activities</i> , Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).
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. <p>Output excludes excise and customs duty paid.</p>
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 E – Weights according to manufacturing divisions and major groups

Manufacturing divisions and major groups	Weights according to the 2001 LSS of the manufacturing industry 2001 - 2004	Weights according to the 2005 LSS of the manufacturing industry 2005 - 2009	Weights according to 2010 national accounts value added 2010 - 2013
Food and beverages	16,4	15,4	22,1
Meat, fish, fruit, etc.	2,6	1,8	4,4
Dairy products	1,1	0,8	2,2
Grain mill products	1,5	0,8	2,7
Other food products	6,8	5,2	6,4
Beverages	4,3	6,8	6,4
Textiles, clothing, leather and footwear	5,4	4,9	3,5
Textiles	1,2	0,7	0,7
Other textile products	1,2	0,9	0,4
Knitted, crocheted articles	0,3	0,2	0,1
Wearing apparel	2,0	2,1	1,6
Tanning, dressing of leather	0,3	0,6	0,2
Footwear	0,4	0,4	0,5
Wood and wood products, paper, publishing and printing	11,0	10,2	9,3
Sawmilling and planing of wood	0,7	0,7	0,8
Products of wood	1,0	1,3	1,7
Paper and paper products	4,8	3,8	3,2
Publishing	2,4	1,9	1,4
Printing, recorded media	2,1	2,5	2,2
Petroleum, chemical products, rubber and plastic products	22,5	22,1	25,1
Petroleum products	9,1	8,5	8,0
Basic chemicals	4,0	4,5	5,8
Other chemical products	5,4	5,3	7,4
Rubber products	1,1	1,0	1,2
Plastic products	3,0	2,7	2,7
Glass and non-metallic mineral products	3,9	4,8	4,9
Glass and glass products	1,1	1,0	0,8
Non-metallic mineral products	2,9	3,8	4,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,4	22,9	20,3
Basic iron and steel products	5,5	7,7	4,4
Non-ferrous metal products	4,7	3,4	3,5
Structural metal products	1,3	2,0	1,9
Other fabricated metal products	4,2	3,8	3,8
General purpose machinery	2,4	2,4	2,3
Special purpose machinery	3,2	3,1	3,5
Household appliances	1,2	0,6	0,9
Electrical machinery	2,7	2,5	2,4
Radio, television and communication apparatus and professional equipment	1,3	1,1	1,3
Radio, television and communication apparatus	0,7	0,4	0,8
Professional equipment	0,6	0,7	0,5
Motor vehicles, parts and accessories and other transport equipment	8,6	10,9	7,9
Motor vehicles	4,1	4,9	3,2
Bodies for motor vehicles, trailers and semi-trailers	0,4	0,5	0,6
Parts and accessories	3,1	4,7	2,9
Other transport equipment	1,0	0,9	1,2
Other manufacturing divisions	5,8	5,2	3,2
Furniture	1,6	1,3	0,9
Other manufacturing groups	4,2	3,9	2,3
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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Enquiries

Telephone number:	(012) 310 8249 (technical enquiries) (012) 310 8358 (orders) (012) 310 4883/4885/8018 (library)
Fax number:	(012) 310 8664 (technical enquiries)
Email address:	gerdab@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