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Manufacturing: Production and sales (Preliminary)

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Key figures for June 2013

Table A – Manufacturing production and sales

Estimates	June 2013	% change between June 2012 and June 2013	% change between April to June 2012 and April to June 2013	% change between January to June 2012 and January to June 2013
Physical volume of manufacturing production index (base: 2010=100)	105,3	0,4	3,0	1,5
Total estimated sales of manufactured products (R million)	135 974	6,6	9,3	7,3

Seasonally adjusted estimates	June 2013	% change between May and June 2013	% change between January to March 2013 and April to June 2013
Physical volume of manufacturing production index (base: 2010=100)	104,9	-3,0	3,1
Total value of sales of manufactured products (R million)	133 934	-2,2	3,6

Manufacturing production increased by 0,4% in June 2013 compared with June 2012.

The 0,4% year-on-year increase in manufacturing production in June 2013 was mainly due to higher production in the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (6,4% and contributing 1,3 percentage points);
- food and beverages (4,2% and contributing 0,9 of a percentage point); and
- textiles, clothing, leather and footwear (6,1% and contributing 0,2 of a percentage point) (see Table 4b).

The petroleum, chemical products, rubber and plastic products division (-3,9% and contributing -1,0 percentage point) was a significant negative contributor.

Seasonally adjusted manufacturing production for the second quarter of 2013 increased by 3,1% compared with the first quarter of 2013. Eight of the ten manufacturing divisions reported positive growth rates over this period.

The largest positive contributions to the increase of 3,1% were made by the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (9,1% and contributing 1,8 percentage points);
- motor vehicles, parts and accessories and other transport equipment (10,5% and contributing 0,9 of a percentage point);
- food and beverages (1,6% and contributing 0,4 of a percentage point); and
- glass and non-metallic mineral products (4,2% and contributing 0,2 of a percentage point) (see Table B).

The petroleum, chemical products, rubber and plastic products division (-1,5% and contributing -0,4 of a percentage point) was a significant negative contributor.

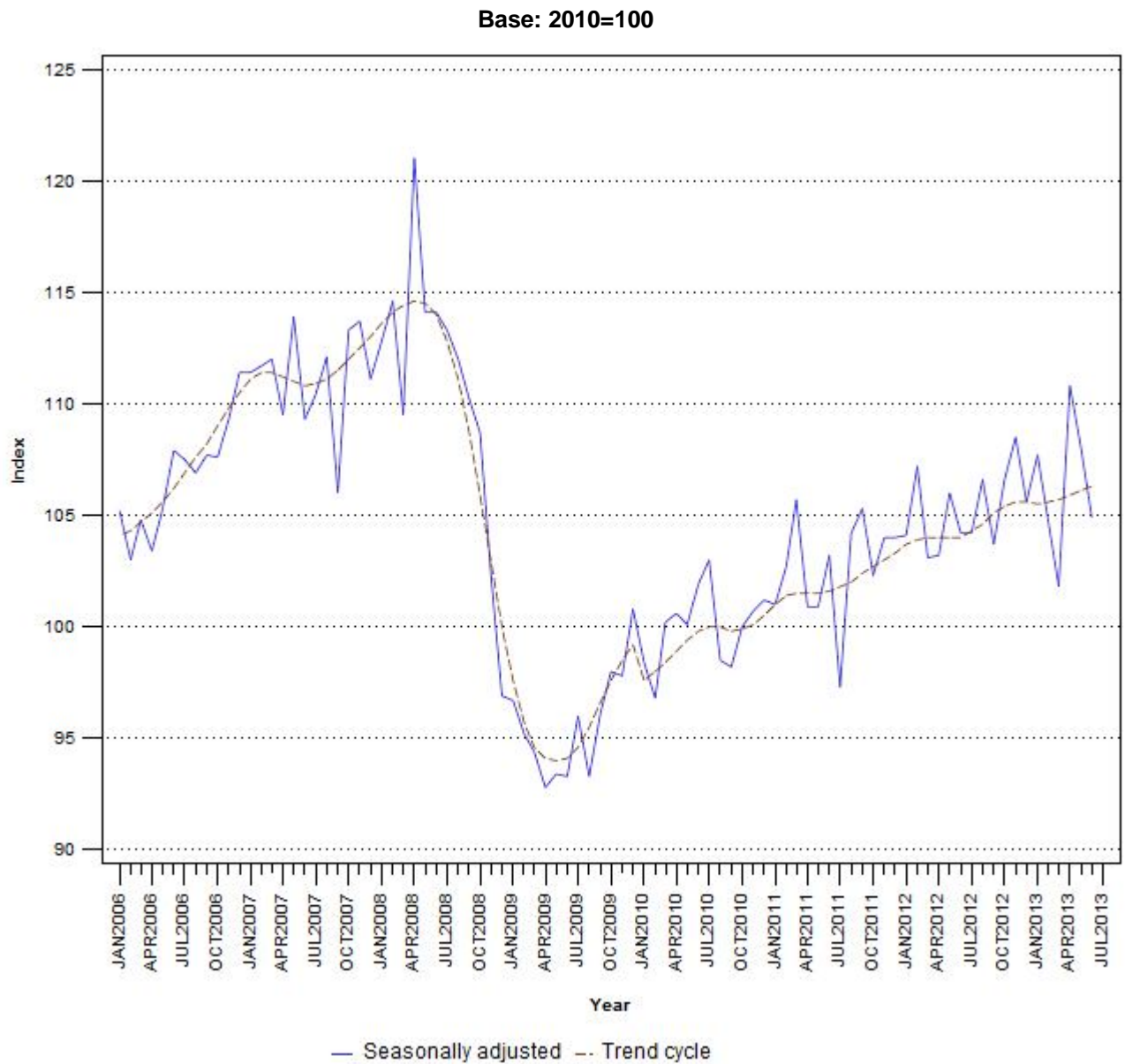
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average seasonally adjusted production index for January to March 2013	Average seasonally adjusted production index for April to June 2013	Quarterly % change of April to June 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	107,0	108,7	1,6	0,4
-Meat, fish, fruit, etc.	4,4	104,6	109,2	4,4	0,2
-Dairy products	2,2	106,7	109,2	2,3	0,1
-Grain mill products	2,7	104,9	110,5	5,3	0,1
-Other food products	6,4	105,9	107,3	1,3	0,1
-Beverages	6,4	110,6	108,8	-1,6	-0,1
Textiles, clothing, leather and footwear	3,5	96,4	99,9	3,6	0,1
-Textiles	1,1	85,9	90,2	5,0	0,0
-Wearing apparel	1,7	101,2	103,8	2,6	0,0
-Leather and leather products	0,2	106,6	111,0	4,1	0,0
-Footwear	0,5	99,8	104,1	4,3	0,0
Wood and wood products, paper, publishing and printing	9,3	100,7	101,0	0,3	0,0
-Wood and products of wood	2,5	99,4	102,9	3,5	0,1
-Paper and paper products	3,2	96,3	99,9	3,7	0,1
-Publishing and printing	3,6	105,5	100,6	-4,6	-0,2
Petroleum, chemical products, rubber and plastic products	25,1	107,3	105,7	-1,5	-0,4
-Coke, petroleum products and nuclear fuel	8,0	99,1	90,7	-8,5	-0,6
-Basic chemicals	5,8	107,4	110,4	2,8	0,2
-Other chemical products	7,4	114,8	114,3	-0,4	0,0
-Rubber products	1,2	111,9	125,5	12,2	0,2
-Plastic products	2,7	108,1	106,9	-1,1	0,0
Glass and non-metallic mineral products	4,9	103,8	108,2	4,2	0,2
-Glass and glass products	0,8	103,8	112,9	8,8	0,1
-Non-metallic mineral products	4,1	103,8	107,3	3,4	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	101,1	110,3	9,1	1,8
-Basic iron and steel products	4,4	83,9	101,0	20,4	0,7
-Basic precious, non-ferrous metal products	3,5	107,9	112,8	4,5	0,2
-Fabricated metal products	5,7	105,1	106,6	1,4	0,1
-Machinery and equipment	6,7	105,8	118,4	11,9	0,8
Electrical machinery	2,4	100,9	105,1	4,2	0,1
Radio, television and communication apparatus and professional equipment	1,3	119,5	126,2	5,6	0,1
-Radio, television and communication apparatus	0,8	128,9	142,9	10,9	0,1
-Professional equipment	0,5	106,0	102,5	-3,3	0,0
Motor vehicles, parts and accessories and other transport equipment	7,9	110,9	122,5	10,5	0,9
-Motor vehicles	3,2	128,4	153,7	19,7	0,8
-Bodies for motor vehicles, trailers and semi-trailers	0,6	101,8	111,6	9,6	0,1
-Parts and accessories	2,9	99,7	101,6	1,9	0,1
-Other transport equipment	1,2	94,9	94,0	-0,9	0,0
Furniture and other manufacturing division	3,2	95,8	92,4	-3,5	-0,1
-Furniture	0,9	104,1	107,6	3,4	0,0
-Other manufacturing groups	2,3	92,3	86,0	-6,8	-0,1
Total	100,0	104,7	107,9	3,1	3,1

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



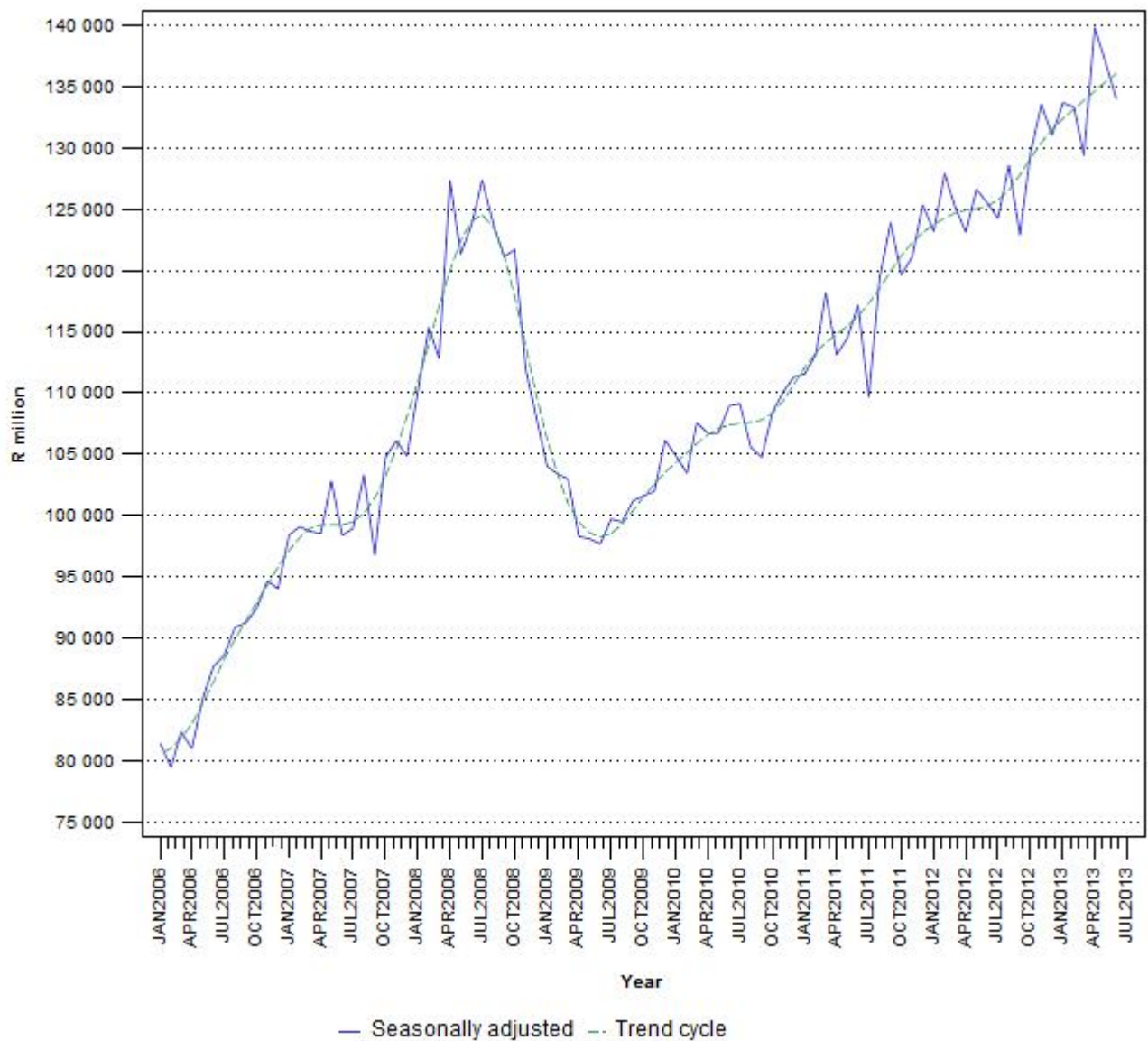
Seasonally adjusted sales of manufactured products (at current prices) for the second quarter of 2013 increased by 3,6% (R14 380 million) compared with the first quarter of 2013. All manufacturing divisions reported positive growth rates over this period.

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were basic iron and steel, non-ferrous metal products, metal products and machinery (6,3% or R5 284 million); motor vehicles, parts and accessories and other transport equipment (5,0% or R2 492 million); petroleum, chemical products, rubber and plastic products (1,7% or R1 698 million); food and beverages (2,1% or R1 684 million) and glass and non-metallic mineral products (8,4% or R1 041 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 January to March 2013	Seasonally adjusted sales April to June 2013	% change between January to March 2013 and April to June 2013	Difference in seasonally adjusted sales of manufacturing divisions between January to March 2013 and April to June 2013
	R'000	R'000	%	R'000
Food and beverages	80 843 054	82 527 433	2,1	1 684 379
-Food and food products	59 845 532	62 313 076	4,1	2 467 544
-Beverages	20 997 521	20 214 356	-3,7	-783 165
Textiles, clothing, leather and footwear	10 210 498	10 865 755	6,4	655 257
-Textiles	3 667 375	3 929 474	7,1	262 099
-Wearing apparel	4 267 359	4 517 147	5,9	249 788
-Leather and leather products	1 335 354	1 478 071	10,7	142 717
-Footwear	940 410	941 063	0,1	653
Wood and wood products, paper, publishing and printing	30 001 772	30 183 198	0,6	181 426
-Wood and products of wood	6 279 294	6 606 200	5,2	326 906
-Paper and paper products	13 329 163	13 621 993	2,2	292 830
-Publishing and printing	10 393 317	9 955 005	-4,2	-438 312
Petroleum, chemical products, rubber and plastic products	99 345 113	101 043 201	1,7	1 698 088
-Coke, petroleum products and nuclear fuel	42 832 868	42 544 206	-0,7	-288 662
-Basic chemicals	20 023 400	21 829 577	9,0	1 806 177
-Other chemical products	21 256 694	20 855 840	-1,9	-400 854
-Rubber products	4 009 319	4 469 266	11,5	459 947
-Plastic products	11 222 831	11 344 312	1,1	121 481
Glass and non-metallic mineral products	12 368 198	13 408 834	8,4	1 040 636
-Glass and glass products	2 194 722	2 401 717	9,4	206 995
-Non-metallic mineral products	10 173 475	11 007 116	8,2	833 641
Basic iron and steel, non-ferrous metal products, metal products and machinery	83 234 222	88 517 987	6,3	5 283 765
-Basic iron and steel products	25 257 919	25 290 777	0,1	32 858
-Basic precious, non-ferrous metal products	16 554 807	18 239 056	10,2	1 684 249
-Fabricated metal products	21 276 692	22 168 395	4,2	891 703
-Machinery and equipment	20 144 803	22 819 758	13,3	2 674 955
Electrical machinery	11 470 492	11 788 702	2,8	318 210
Radio, television and communication apparatus and professional equipment	3 767 817	4 099 407	8,8	331 590
-Radio, television and communication apparatus	1 954 019	2 161 499	10,6	207 480
-Professional equipment	1 813 797	1 937 909	6,8	124 112
Motor vehicles, parts and accessories and other transport equipment	49 640 986	52 132 509	5,0	2 491 523
-Motor vehicles, trailers, parts and accessories	45 148 505	47 672 833	5,6	2 524 328
-Other transport equipment	4 492 482	4 459 676	-0,7	-32 806
Furniture and other manufacturing division	15 383 090	16 078 394	4,5	695 304
-Furniture	3 305 400	3 444 375	4,2	138 975
-Other manufacturing groups	12 077 690	12 634 019	4,6	556 329
Total	396 265 241	410 645 419	3,6	14 380 178

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



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Statistician-General

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	105,1
Apr	102,6	112,8	86,6	93,4	93,7	95,4	1/ 102,3
May	115,1	115,4	94,2	100,6	101,7	106,8	1/ 109,0
Jun	110,7	115,7	94,5	102,9	104,1	104,9	1/ 105,3
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	7,2
May	8,2	0,3	-18,4	6,8	1,1	5,0	2,1
Jun	1,6	4,5	-18,3	8,9	1,2	0,8	0,4
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	107,7
Feb	111,7	114,6	95,2	96,8	102,7	107,2	104,6
Mar	112,0	109,5	94,4	100,2	105,7	103,1	101,8
Apr	109,5	121,0	92,8	100,6	100,9	103,2	110,8
May	113,9	114,1	93,4	100,1	100,9	106,0	108,1
Jun	109,3	114,1	93,3	101,9	103,2	104,2	104,9
Jul	110,4	113,3	96,0	103,0	97,3	104,2	
Aug	112,1	112,0	93,3	98,5	104,2	106,6	
Sep	106,0	110,2	96,1	98,2	105,3	103,7	
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	104,0	105,6	

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		
			June 2012	1/ May 2013	1/ June 2013	June 2012	May 2013	June 2013
Food and beverages	22,1	104,4	99,4	108,7	103,6	101,5	109,5	106,2
-Meat, fish, fruit, etc.	4,4	106,4	105,0	111,8	105,2	105,7	110,3	106,0
-Dairy products	2,2	108,8	101,8	102,8	96,9	112,4	111,2	107,2
-Grain mill products	2,7	105,1	104,3	109,5	105,9	103,6	109,8	105,6
-Other food products	6,4	97,4	103,0	121,3	109,0	93,8	111,2	99,6
-Beverages	6,4	108,0	89,0	95,9	98,4	101,5	106,5	112,7
Textiles, clothing, leather and footwear	3,5	95,7	92,4	100,3	98,0	94,1	99,8	99,7
-Textiles	0,7	87,1	78,0	85,0	78,5	77,2	80,8	78,0
-Other textile products	0,4	96,4	105,1	104,9	101,1	105,6	104,1	101,3
-Knitted, crocheted articles	0,1	71,5	67,4	79,7	72,1	66,1	68,4	70,8
-Wearing apparel	1,6	98,7	96,1	103,6	104,3	98,6	105,9	106,7
-Leather and leather products	0,2	107,2	110,8	117,4	117,9	105,8	111,1	113,1
-Footwear	0,5	95,8	85,1	102,3	96,9	92,0	103,0	104,6
Wood and wood products, paper, publishing and printing	9,3	103,9	100,9	98,7	99,3	102,2	100,3	100,6
-Sawmilling and planing of wood	0,8	106,8	107,3	106,8	110,1	106,9	105,7	109,3
-Products of wood	1,7	100,3	99,5	100,5	99,5	99,2	99,9	99,4
-Paper and paper products	3,2	98,6	103,8	96,8	105,2	99,2	99,4	100,5
-Publishing	1,4	115,4	101,2	98,9	103,3	106,5	103,5	109,2
-Printing, recorded media	2,2	105,6	95,1	96,9	84,0	104,4	97,9	92,6
Petroleum, chemical products, rubber and plastic products	25,1	107,2	108,0	104,2	103,8	105,5	104,7	101,7
-Coke, petroleum products and nuclear fuel	8,0	104,1	109,4	87,2	90,6	101,4	84,5	83,9
-Basic chemicals	5,8	106,9	97,5	109,4	112,5	97,5	110,5	112,7
-Other chemical products	7,4	109,1	112,7	112,5	109,1	112,4	116,9	108,6
-Rubber products	1,2	116,4	123,7	132,1	123,7	122,9	125,8	123,0
-Plastic products	2,7	107,7	106,7	108,0	100,5	108,6	109,0	102,3
Glass and non-metallic mineral products	4,9	103,8	109,7	113,1	108,2	105,4	109,8	104,2
-Glass and glass products	0,8	104,1	93,6	102,1	107,7	98,1	113,8	113,7
-Non-metallic mineral products	4,1	103,7	112,8	115,2	108,3	106,8	109,0	102,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	101,6	114,8	108,1	101,7	111,5	108,8
-Basic iron and steel products	4,4	92,2	87,1	114,1	102,8	86,9	102,0	103,7
-Non-ferrous metal products	3,5	97,3	81,4	114,9	105,6	85,9	114,2	112,1
-Structural metal products	1,9	98,1	100,8	87,9	85,3	97,5	86,7	82,7
-Other fabricated metal products	3,8	113,1	115,2	122,4	116,4	113,7	118,0	114,7
-General purpose machinery	2,3	109,8	115,0	109,0	106,4	115,0	108,2	106,2
-Special purpose machinery	3,5	112,0	111,2	124,5	120,1	111,6	127,4	120,6
-Household appliances	0,9	113,7	122,0	119,6	114,7	118,9	119,6	111,5
Electrical machinery	2,4	101,3	113,0	108,0	103,4	109,4	107,2	100,3
Radio, television and communication apparatus and professional equipment	1,3	121,7	121,1	112,6	123,3	120,8	119,1	123,6
-Radio, television and communication apparatus	0,8	130,1	124,5	120,1	135,8	127,9	133,0	139,7
-Professional equipment	0,5	109,8	116,2	101,9	105,5	110,8	99,5	100,7
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	119,5	127,9	119,4	114,4	122,6	113,6
-Motor vehicles	3,2	124,2	138,2	150,9	150,2	131,6	148,2	141,6
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	108,9	129,3	101,3	108,5	119,4	101,0
-Parts and accessories	2,9	99,9	105,3	115,5	94,9	103,0	106,5	92,9
-Other transport equipment	1,2	99,3	108,8	93,9	105,0	97,9	93,3	94,3
Furniture and other manufacturing division	3,2	103,6	108,3	97,7	91,9	106,4	93,1	90,5
-Furniture	0,9	111,5	116,5	109,2	106,7	115,4	107,5	105,7
-Other manufacturing groups	2,3	100,3	104,9	92,9	85,8	102,6	87,1	84,2
Total	100,0	105,2	104,9	109,0	105,3	104,2	108,1	104,9

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		
			June 2012	1/ June 2013	% change between June 2012 and June 2013	May 2013	June 2013	% change between May and June 2013
Food and beverages	22,1	104,4	99,4	103,6	4,2	109,5	106,2	-3,0
-Meat, fish, fruit, etc.	4,4	106,4	105,0	105,2	0,2	110,3	106,0	-3,9
-Dairy products	2,2	108,8	101,8	96,9	-4,8	111,2	107,2	-3,6
-Grain mill products	2,7	105,1	104,3	105,9	1,5	109,8	105,6	-3,8
-Other food products	6,4	97,4	103,0	109,0	5,8	111,2	99,6	-10,4
-Beverages	6,4	108,0	89,0	98,4	10,6	106,5	112,7	5,8
Textiles, clothing, leather and footwear	3,5	95,7	92,4	98,0	6,1	99,8	99,7	-0,1
-Textiles	0,7	87,1	78,0	78,5	0,6	80,8	78,0	-3,5
-Other textile products	0,4	96,4	105,1	101,1	-3,8	104,1	101,3	-2,7
-Knitted, crocheted articles	0,1	71,5	67,4	72,1	7,0	68,4	70,8	3,5
-Wearing apparel	1,6	98,7	96,1	104,3	8,5	105,9	106,7	0,8
-Leather and leather products	0,2	107,2	110,8	117,9	6,4	111,1	113,1	1,8
-Footwear	0,5	95,8	85,1	96,9	13,9	103,0	104,6	1,6
Wood and wood products, paper, publishing and printing	9,3	103,9	100,9	99,3	-1,6	100,3	100,6	0,3
-Sawmilling and planing of wood	0,8	106,8	107,3	110,1	2,6	105,7	109,3	3,4
-Products of wood	1,7	100,3	99,5	99,5	0,0	99,9	99,4	-0,5
-Paper and paper products	3,2	98,6	103,8	105,2	1,3	99,4	100,5	1,1
-Publishing	1,4	115,4	101,2	103,3	2,1	103,5	109,2	5,5
-Printing, recorded media	2,2	105,6	95,1	84,0	-11,7	97,9	92,6	-5,4
Petroleum, chemical products, rubber and plastic products	25,1	107,2	108,0	103,8	-3,9	104,7	101,7	-2,9
-Coke, petroleum products and nuclear fuel	8,0	104,1	109,4	90,6	-17,2	84,5	83,9	-0,7
-Basic chemicals	5,8	106,9	97,5	112,5	15,4	110,5	112,7	2,0
-Other chemical products	7,4	109,1	112,7	109,1	-3,2	116,9	108,6	-7,1
-Rubber products	1,2	116,4	123,7	123,7	0,0	125,8	123,0	-2,2
-Plastic products	2,7	107,7	106,7	100,5	-5,8	109,0	102,3	-6,1
Glass and non-metallic mineral products	4,9	103,8	109,7	108,2	-1,4	109,8	104,2	-5,1
-Glass and glass products	0,8	104,1	93,6	107,7	15,1	113,8	113,7	-0,1
-Non-metallic mineral products	4,1	103,7	112,8	108,3	-4,0	109,0	102,4	-6,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	101,6	108,1	6,4	111,5	108,8	-2,4
-Basic iron and steel products	4,4	92,2	87,1	102,8	18,0	102,0	103,7	1,7
-Non-ferrous metal products	3,5	97,3	81,4	105,6	29,7	114,2	112,1	-1,8
-Structural metal products	1,9	98,1	100,8	85,3	-15,4	86,7	82,7	-4,6
-Other fabricated metal products	3,8	113,1	115,2	116,4	1,0	118,0	114,7	-2,8
-General purpose machinery	2,3	109,8	115,0	106,4	-7,5	108,2	106,2	-1,8
-Special purpose machinery	3,5	112,0	111,2	120,1	8,0	127,4	120,6	-5,3
-Household appliances	0,9	113,7	122,0	114,7	-6,0	119,6	111,5	-6,8
Electrical machinery	2,4	101,3	113,0	103,4	-8,5	107,2	100,3	-6,4
Radio, television and communication apparatus and professional equipment	1,3	121,7	121,1	123,3	1,8	119,1	123,6	3,8
-Radio, television and communication apparatus	0,8	130,1	124,5	135,8	9,1	133,0	139,7	5,0
-Professional equipment	0,5	109,8	116,2	105,5	-9,2	99,5	100,7	1,2
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	119,5	119,4	-0,1	122,6	113,6	-7,3
-Motor vehicles	3,2	124,2	138,2	150,2	8,7	148,2	141,6	-4,5
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	108,9	101,3	-7,0	119,4	101,0	-15,4
-Parts and accessories	2,9	99,9	105,3	94,9	-9,9	106,5	92,9	-12,8
-Other transport equipment	1,2	99,3	108,8	105,0	-3,5	93,3	94,3	1,1
Furniture and other manufacturing division	3,2	103,6	108,3	91,9	-15,1	93,1	90,5	-2,8
-Furniture	0,9	111,5	116,5	106,7	-8,4	107,5	105,7	-1,7
-Other manufacturing groups	2,3	100,3	104,9	85,8	-18,2	87,1	84,2	-3,3
Total	100,0	105,2	104,9	105,3	0,4	108,1	104,9	-3,0

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	134 348 925
Apr	92 055 334	118 743 978	91 481 056	99 179 387	105 427 353	114 751 285	1/ 130 221 651
May	103 294 995	122 009 401	97 891 568	106 725 647	114 987 796	127 234 354	1/ 137 667 564
Jun	100 363 915	126 717 920	99 620 665	110 984 952	119 312 466	127 603 367	1/ 135 973 754
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

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	13,5
May	21,1	18,1	-19,8	9,0	7,7	10,7	8,2
Jun	12,5	26,3	-21,4	11,4	7,5	6,9	6,6
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	98 458 015	110 162 001	104 038 922	104 880 713	111 564 273	123 163 888	133 615 242
Feb	99 128 816	115 342 535	103 389 104	103 480 517	113 133 883	127 862 755	133 286 235
Mar	98 741 941	112 816 244	103 019 115	107 600 409	118 151 223	125 164 522	129 363 764
Apr	98 572 081	127 295 770	98 318 700	106 715 661	113 115 327	123 077 573	139 736 544
May	102 825 566	121 306 512	98 139 182	106 738 249	114 443 778	126 580 256	136 974 999
Jun	98 410 647	123 679 866	97 731 082	108 963 943	117 122 683	125 478 069	133 933 876
Jul	98 969 527	127 323 198	99 737 469	109 137 650	109 676 925	124 225 402	
Aug	103 307 892	123 844 441	99 504 553	105 574 367	119 413 802	128 516 865	
Sep	96 848 213	121 099 498	101 216 513	104 787 026	123 871 736	122 879 284	
Oct	104 750 476	121 672 016	101 649 854	108 437 402	119 625 491	129 500 467	
Nov	106 122 197	112 001 367	101 995 154	110 105 389	121 065 823	133 501 971	
Dec	104 877 725	108 090 256	106 155 240	111 312 870	125 313 562	130 991 743	

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		
		June 2012	1/ May 2013	1/ June 2013	June 2012	May 2013	June 2013
Food and beverages	310 753 020	24 411 188	26 623 573	26 123 627	25 191 431	27 676 186	27 072 116
-Meat, fish, fruit, etc.	80 244 635	6 488 532	7 241 118	7 020 420	6 611 426	7 223 855	7 176 714
-Dairy products	27 286 839	2 139 808	2 408 712	2 188 568	2 352 215	2 509 352	2 405 820
-Grain mill products	54 399 835	4 448 454	4 923 108	4 832 789	4 380 976	4 981 482	4 772 189
-Other food products	70 581 062	5 840 579	6 162 798	5 943 293	5 702 413	6 164 783	5 818 861
-Beverages	78 240 649	5 493 815	5 887 837	6 138 557	6 144 401	6 796 714	6 898 532
Textiles, clothing, leather and footwear	39 829 374	3 342 965	3 712 902	3 538 423	3 351 923	3 628 477	3 553 018
-Textiles	4 467 256	346 133	434 400	377 454	335 018	411 421	367 981
-Other textile products	10 005 194	925 255	944 514	900 917	922 115	915 559	898 082
-Knitted, crocheted articles	1 720 830	141 297	178 585	150 306	135 823	149 148	144 790
-Wearing apparel	14 738 223	1 188 300	1 344 567	1 323 853	1 223 085	1 353 420	1 365 198
-Leather and leather products	5 345 948	461 314	509 367	498 427	439 293	488 427	474 550
-Footwear	3 551 923	280 666	301 469	287 466	296 589	310 503	302 416
Wood and wood products, paper, publishing and printing	120 098 223	9 930 601	9 838 504	10 033 465	9 799 391	9 906 101	9 904 016
-Sawmilling and planing of wood	8 934 002	734 821	746 098	809 029	738 138	758 038	811 590
-Products of wood	16 623 711	1 403 024	1 391 028	1 432 818	1 387 566	1 394 846	1 421 376
-Paper and paper products	52 397 430	4 646 384	4 437 413	4 761 297	4 307 064	4 438 512	4 421 117
-Publishing	18 207 329	1 329 237	1 363 196	1 377 348	1 399 135	1 417 082	1 459 210
-Printing, recorded media	23 935 751	1 817 135	1 900 769	1 652 973	1 967 488	1 897 623	1 790 723
Petroleum, chemical products, rubber and plastic products	371 139 667	30 881 918	34 347 767	34 756 587	29 631 086	33 622 858	33 362 479
-Coke, petroleum products and nuclear fuel	159 593 866	13 224 862	15 032 419	15 793 074	12 058 464	13 972 382	14 492 838
-Basic chemicals	76 583 427	6 179 249	7 177 026	7 328 866	6 056 980	7 256 492	7 200 548
-Other chemical products	75 688 106	6 500 970	6 845 496	6 639 519	6 468 311	7 090 288	6 600 311
-Rubber products	15 688 483	1 353 163	1 454 354	1 424 861	1 362 608	1 458 182	1 438 252
-Plastic products	43 585 785	3 623 674	3 838 472	3 570 267	3 684 723	3 845 514	3 630 530
Glass and non-metallic mineral products	47 460 718	4 041 139	4 451 642	4 415 194	3 937 030	4 457 383	4 301 322
-Glass and glass products	8 181 045	611 703	698 440	789 237	626 864	800 158	810 997
-Non-metallic mineral products	39 279 673	3 429 436	3 753 202	3 625 957	3 310 165	3 657 225	3 490 324
Basic iron and steel, non-ferrous metal products, metal products and machinery	325 860 391	27 917 602	30 281 469	29 350 489	27 080 663	29 583 289	28 536 471
-Basic iron and steel products	97 345 301	8 493 289	9 477 993	8 576 867	7 934 561	8 728 832	8 045 805
-Non-ferrous metal products	61 964 728	5 277 098	5 914 024	6 314 861	5 239 812	5 971 634	6 251 537
-Structural metal products	29 182 727	2 538 860	2 327 361	2 243 817	2 475 949	2 341 506	2 192 726
-Other fabricated metal products	56 428 755	4 837 108	5 142 602	4 806 884	4 707 917	5 051 756	4 676 435
-General purpose machinery	30 729 277	2 710 092	2 736 534	2 609 722	2 619 171	2 718 280	2 519 333
-Special purpose machinery	40 218 784	3 193 665	3 788 895	3 936 693	3 241 714	3 893 191	3 996 568
-Household appliances	9 990 819	867 490	894 060	861 645	861 538	878 089	854 067
Electrical machinery	44 835 132	4 167 697	4 003 035	4 035 330	3 995 451	3 908 381	3 896 453
Radio, television and communication apparatus and professional equipment	15 243 304	1 287 077	1 255 382	1 382 106	1 266 093	1 344 568	1 368 707
-Radio, television and communication apparatus	7 500 083	608 073	635 620	706 296	634 559	734 824	739 555
-Professional equipment	7 743 221	679 004	619 762	675 810	631 533	609 744	629 152
Motor vehicles, parts and accessories and other transport equipment	183 642 534	16 552 173	17 654 983	16 774 868	16 267 046	17 447 050	16 485 851
-Motor vehicles	93 050 573	8 858 598	9 534 066	8 846 056	8 853 785	9 586 292	8 837 237
-Bodies for motor vehicles, trailers and semi-trailers	8 600 730	687 146	830 551	697 060	671 105	806 457	680 962
-Parts and accessories	63 923 511	5 361 234	5 799 198	5 555 269	5 272 724	5 579 412	5 468 586
-Other transport equipment	18 067 720	1 645 195	1 491 168	1 676 483	1 469 432	1 474 888	1 499 066
Furniture and other manufacturing division	62 512 723	5 071 007	5 498 307	5 563 665	4 957 955	5 400 707	5 453 443
-Furniture	13 926 915	1 215 846	1 136 289	1 147 941	1 204 194	1 123 129	1 135 382
-Other manufacturing groups	48 585 808	3 855 161	4 362 018	4 415 724	3 753 762	4 277 578	4 318 061
Total	1 521 375 086	127 603 367	137 667 564	135 973 754	125 478 069	136 974 999	133 933 876

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		
		June 2012	1/ June 2013	% change between June 2012 and June 2013	May 2013	June 2013	% change between May and June 2013
Food and beverages	310 753 020	24 411 188	26 123 627	7,0	27 676 186	27 072 116	-2,2
-Meat, fish, fruit, etc.	80 244 635	6 488 532	7 020 420	8,2	7 223 855	7 176 714	-0,7
-Dairy products	27 286 839	2 139 808	2 188 568	2,3	2 509 352	2 405 820	-4,1
-Grain mill products	54 399 835	4 448 454	4 832 789	8,6	4 981 482	4 772 189	-4,2
-Other food products	70 581 062	5 840 579	5 943 293	1,8	6 164 783	5 818 861	-5,6
-Beverages	78 240 649	5 493 815	6 138 557	11,7	6 796 714	6 898 532	1,5
Textiles, clothing, leather and footwear	39 829 374	3 342 965	3 538 423	5,8	3 628 477	3 553 018	-2,1
-Textiles	4 467 256	346 133	377 454	9,0	411 421	367 981	-10,6
-Other textile products	10 005 194	925 255	900 917	-2,6	915 559	898 082	-1,9
-Knitted, crocheted articles	1 720 830	141 297	150 306	6,4	149 148	144 790	-2,9
-Wearing apparel	14 738 223	1 188 300	1 323 853	11,4	1 353 420	1 365 198	0,9
-Leather and leather products	5 345 948	461 314	498 427	8,0	488 427	474 550	-2,8
-Footwear	3 551 923	280 666	287 466	2,4	310 503	302 416	-2,6
Wood and wood products, paper, publishing and printing	120 098 223	9 930 601	10 033 465	1,0	9 906 101	9 904 016	-0,0
-Sawmilling and planing of wood	8 934 002	734 821	809 029	10,1	758 038	811 590	7,1
-Products of wood	16 623 711	1 403 024	1 432 818	2,1	1 394 846	1 421 376	1,9
-Paper and paper products	52 397 430	4 646 384	4 761 297	2,5	4 438 512	4 421 117	-0,4
-Publishing	18 207 329	1 329 237	1 377 348	3,6	1 417 082	1 459 210	3,0
-Printing, recorded media	23 935 751	1 817 135	1 652 973	-9,0	1 897 623	1 790 723	-5,6
Petroleum, chemical products, rubber and plastic products	371 139 667	30 881 918	34 756 587	12,5	33 622 858	33 362 479	-0,8
-Coke, petroleum products and nuclear fuel	159 593 866	13 224 862	15 793 074	19,4	13 972 382	14 492 838	3,7
-Basic chemicals	76 583 427	6 179 249	7 328 866	18,6	7 256 492	7 200 548	-0,8
-Other chemical products	75 688 106	6 500 970	6 639 519	2,1	7 090 288	6 600 311	-6,9
-Rubber products	15 688 483	1 353 163	1 424 861	5,3	1 458 182	1 438 252	-1,4
-Plastic products	43 585 785	3 623 674	3 570 267	-1,5	3 845 514	3 630 530	-5,6
Glass and non-metallic mineral products	47 460 718	4 041 139	4 415 194	9,3	4 457 383	4 301 322	-3,5
-Glass and glass products	8 181 045	611 703	789 237	29,0	800 158	810 997	1,4
-Non-metallic mineral products	39 279 673	3 429 436	3 625 957	5,7	3 657 225	3 490 324	-4,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	325 860 391	27 917 602	29 350 489	5,1	29 583 289	28 536 471	-3,5
-Basic iron and steel products	97 345 301	8 493 289	8 576 867	1,0	8 728 832	8 045 805	-7,8
-Non-ferrous metal products	61 964 728	5 277 098	6 314 861	19,7	5 971 634	6 251 537	4,7
-Structural metal products	29 182 727	2 538 860	2 243 817	-11,6	2 341 506	2 192 726	-6,4
-Other fabricated metal products	56 428 755	4 837 108	4 806 884	-0,6	5 051 756	4 676 435	-7,4
-General purpose machinery	30 729 277	2 710 092	2 609 722	-3,7	2 718 280	2 519 333	-7,3
-Special purpose machinery	40 218 784	3 193 665	3 936 693	23,3	3 893 191	3 996 568	2,7
-Household appliances	9 990 819	867 490	861 645	-0,7	878 089	854 067	-2,7
Electrical machinery	44 835 132	4 167 697	4 035 330	-3,2	3 908 381	3 896 453	-0,3
Radio, television and communication apparatus and professional equipment	15 243 304	1 287 077	1 382 106	7,4	1 344 568	1 368 707	1,8
-Radio, television and communication apparatus	7 500 083	608 073	706 296	16,2	734 824	739 555	0,6
-Professional equipment	7 743 221	679 004	675 810	-0,5	609 744	629 152	3,2
Motor vehicles, parts and accessories and other transport equipment	183 642 534	16 552 173	16 774 868	1,3	17 447 050	16 485 851	-5,5
-Motor vehicles	93 050 573	8 858 598	8 846 056	-0,1	9 586 292	8 837 237	-7,8
-Bodies for motor vehicles, trailers and semi-trailers	8 600 730	687 146	697 060	1,4	806 457	680 962	-15,6
-Parts and accessories	63 923 511	5 361 234	5 555 269	3,6	5 579 412	5 468 586	-2,0
-Other transport equipment	18 067 720	1 645 195	1 676 483	1,9	1 474 888	1 499 066	1,6
Furniture and other manufacturing division	62 512 723	5 071 007	5 563 665	9,7	5 400 707	5 453 443	1,0
-Furniture	13 926 915	1 215 846	1 147 941	-5,6	1 123 129	1 135 382	1,1
-Other manufacturing groups	48 585 808	3 855 161	4 415 724	14,5	4 277 578	4 318 061	0,9
Total	1 521 375 086	127 603 367	135 973 754	6,6	136 974 999	133 933 876	-2,2

1/ Preliminary.

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

Manufacturing divisions and major groups	Weights 2010	Production indices (base: 2010=100)			Value of sales (R'000)		
		Apr. to Jun. 2012	Apr. to Jun. 2013	% change between Apr. to Jun. 2012 and Apr. to Jun. 2013	Apr. to Jun. 2012	Apr. to Jun. 2013	% change between Apr. to Jun. 2012 and Apr. to Jun. 2013
Food and beverages	22,1	100,2	104,0	3,8	72 618 327	78 481 544	8,1
-Meat, fish, fruit, etc.	4,4	106,3	107,8	1,4	19 478 127	21 071 654	8,2
-Dairy products	2,2	101,2	100,5	-0,7	6 459 009	6 977 839	8,0
-Grain mill products	2,7	101,9	107,3	5,3	12 954 467	14 558 047	12,4
-Other food products	6,4	103,3	110,5	7,0	17 106 903	18 262 072	6,8
-Beverages	6,4	92,0	94,8	3,0	16 619 821	17 611 932	6,0
Textiles, clothing, leather and footwear	3,5	94,0	98,7	5,0	9 825 390	10 843 157	10,4
-Textiles	0,7	87,4	82,8	-5,3	1 075 642	1 230 495	14,4
-Other textile products	0,4	96,2	101,3	5,3	2 550 260	2 720 034	6,7
-Knitted, crocheted articles	0,1	71,0	75,3	6,1	424 614	494 524	16,5
-Wearing apparel	1,6	96,1	103,9	8,1	3 591 326	4 008 985	11,6
-Leather and leather products	0,2	110,2	113,9	3,4	1 339 555	1 494 473	11,6
-Footwear	0,5	90,4	98,7	9,2	843 993	894 646	6,0
Wood and wood products, paper, publishing and printing	9,3	95,9	96,1	0,2	27 784 582	29 047 581	4,5
-Sawmilling and planing of wood	0,8	105,6	105,9	0,3	2 172 790	2 277 860	4,8
-Products of wood	1,7	96,7	97,6	0,9	3 985 503	4 143 603	4,0
-Paper and paper products	3,2	96,2	97,5	1,4	12 724 909	13 383 408	5,2
-Publishing	1,4	95,6	99,1	3,7	3 733 570	4 054 693	8,6
-Printing, recorded media	2,2	91,1	87,4	-4,1	5 167 810	5 188 017	0,4
Petroleum, chemical products, rubber and plastic products	25,1	104,7	104,7	0,0	90 463 078	102 041 209	12,8
-Coke, petroleum products and nuclear fuel	8,0	104,9	94,5	-9,9	39 386 561	45 143 845	14,6
-Basic chemicals	5,8	100,7	107,8	7,1	18 434 101	21 379 625	16,0
-Other chemical products	7,4	104,4	110,4	5,7	18 113 450	20 235 073	11,7
-Rubber products	1,2	122,1	125,6	2,9	3 891 208	4 296 199	10,4
-Plastic products	2,7	105,6	103,6	-1,9	10 637 758	10 986 467	3,3
Glass and non-metallic mineral products	4,9	106,1	108,0	1,8	11 637 034	12 979 010	11,5
-Glass and glass products	0,8	91,0	103,1	13,3	1 768 168	2 154 889	21,9
-Non-metallic mineral products	4,1	109,0	108,9	-0,1	9 868 866	10 824 121	9,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	100,4	109,0	8,6	80 984 926	88 222 439	8,9
-Basic iron and steel products	4,4	89,3	105,4	18,0	25 342 598	26 482 958	4,5
-Non-ferrous metal products	3,5	86,0	109,5	27,3	14 833 392	18 198 574	22,7
-Structural metal products	1,9	98,6	85,0	-13,8	7 186 353	6 702 887	-6,7
-Other fabricated metal products	3,8	111,0	115,8	4,3	13 913 138	14 982 063	7,7
-General purpose machinery	2,3	110,4	106,5	-3,5	7 726 139	7 887 204	2,1
-Special purpose machinery	3,5	108,0	118,4	9,6	9 492 878	11 330 017	19,4
-Household appliances	0,9	112,8	115,9	2,7	2 490 428	2 638 736	6,0
Electrical machinery	2,4	104,2	104,3	0,1	11 631 049	11 746 789	1,0
Radio, television and communication apparatus and professional equipment	1,3	112,2	118,0	5,2	3 551 606	3 881 301	9,3
-Radio, television and communication apparatus	0,8	110,7	127,4	15,1	1 626 786	1 947 847	19,7
-Professional equipment	0,5	114,4	104,6	-8,6	1 924 820	1 933 454	0,4
Motor vehicles, parts and accessories and other transport equipment	7,9	112,8	121,1	7,4	45 511 649	50 637 587	11,3
-Motor vehicles	3,2	126,3	148,2	17,3	23 029 559	27 024 801	17,3
-Bodies for motor vehicles, trailers and semi-trailers	0,6	115,2	115,0	-0,2	2 204 838	2 283 002	3,5
-Parts and accessories	2,9	102,6	103,3	0,7	15 786 142	16 881 905	6,9
-Other transport equipment	1,2	99,1	93,2	-6,0	4 491 110	4 447 879	-1,0
Furniture and other manufacturing division	3,2	103,5	89,6	-13,4	15 581 365	15 982 352	2,6
-Furniture	0,9	110,7	105,0	-5,1	3 446 305	3 348 260	-2,8
-Other manufacturing groups	2,3	100,5	83,1	-17,3	12 135 060	12 634 092	4,1
Total	100,0	102,4	105,5	3,0	369 589 006	403 862 969	9,3

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 June 2013 was 88,5%. Improved collection rate for May 2013 was 92,2%.
- 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 D 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 forthcoming publication** 25 The results published in the next publication (July 2013) will be based on a new sample drawn in April 2013. The periodic introduction of a new sample is part of Stats SA's strategic approach in improving the basis from which surveys are conducted.

Technical notes**26** Neyman optimal allocation

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

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

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 D – 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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