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Statistical release

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Key figures for December 2013

Table A – Manufacturing production and sales

Estimates	December 2013	% change between December 2012 and December 2013	% change between October to December 2012 and October to December 2013	% change between January to December 2012 and January to December 2013
Physical volume of manufacturing production index (base: 2010=100)	97,7	2,5	1,4	1,3
Total estimated sales of manufactured products (R million)	137 957	13,6	9,2	8,4

Seasonally adjusted estimates	December 2013	% change between November and December 2013	% change between July to September 2013 and October to December 2013
Physical volume of manufacturing production index (base: 2010=100)	108,3	0,4	2,4
Total value of sales of manufactured products (R million)	148 062	3,9	4,0

Manufacturing production for 2013 increased by 1,3% compared with 2012. Higher production was reported by seven of the ten manufacturing divisions.

The annual increase of 1,3% was mainly due to higher production in the following divisions:

- food and beverages (3,4% and contributing 0,8 of a percentage point);
- basic iron and steel, non-ferrous metal products, metal products and machinery (2,0% and contributing 0,4 of a percentage point); and
- petroleum, chemical products, rubber and plastic products (1,2% and contributing 0,3 of a percentage point) (see Table 10).

Manufacturing production increased by 2,5% in December 2013 compared with December 2012.

The 2,5% year-on-year increase in manufacturing production in December 2013 was mainly due to higher production in the following divisions:

- food and beverages (5,0% and contributing 1,3 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (2,5% and contributing 0,5 of a percentage point); and
- petroleum, chemical products, rubber and plastic products (1,7% and contributing 0,5 of a percentage point) (see Table 4b).

Seasonally adjusted manufacturing production increased by 2,4% in the fourth quarter of 2013 compared with the third quarter of 2013. Five of the ten manufacturing divisions reported positive growth rates over this period.

The largest positive contributions to the increase of 2,4% were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (26,9% and contributing 1,8 percentage points); and
- petroleum, chemical products, rubber and plastic products (5,1% and contributing 1,3 percentage points) (see Table B).

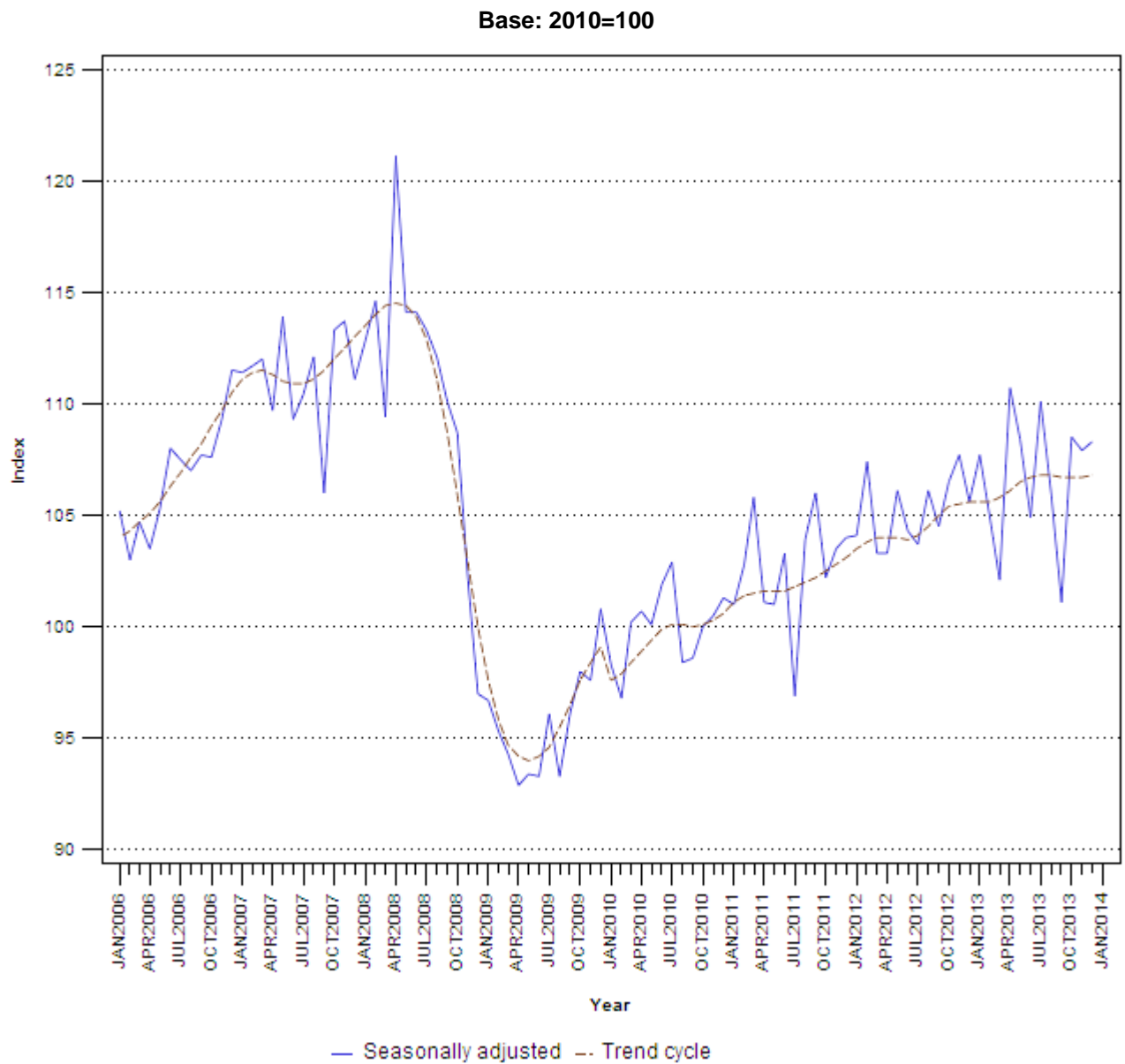
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average seasonally adjusted production index for July to September 2013	Average seasonally adjusted production index for October to December 2013	Quarterly % change of October to December 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	108,2	108,2	0,0	0,0
-Meat, fish, fruit, etc.	4,4	110,0	112,5	2,3	0,1
-Dairy products	2,2	105,1	103,8	-1,2	0,0
-Grain mill products	2,7	106,6	108,9	2,2	0,1
-Other food products	6,4	105,3	103,3	-1,9	-0,1
-Beverages	6,4	111,5	111,3	-0,2	0,0
Textiles, clothing, leather and footwear	3,5	96,8	95,7	-1,1	0,0
-Textiles	1,1	86,5	86,4	-0,1	0,0
-Wearing apparel	1,7	98,4	95,4	-3,0	0,0
-Leather and leather products	0,2	126,0	133,6	6,0	0,0
-Footwear	0,5	101,3	100,4	-0,9	0,0
Wood and wood products, paper, publishing and printing	9,3	109,8	102,8	-6,4	-0,6
-Wood and products of wood	2,5	104,4	100,2	-4,0	-0,1
-Paper and paper products	3,2	104,8	98,9	-5,6	-0,2
-Publishing and printing	3,6	117,8	108,0	-8,3	-0,3
Petroleum, chemical products, rubber and plastic products	25,1	107,7	113,2	5,1	1,3
-Coke, petroleum products and nuclear fuel	8,0	103,1	114,1	10,7	0,8
-Basic chemicals	5,8	105,8	113,5	7,3	0,4
-Other chemical products	7,4	114,8	114,7	-0,1	0,0
-Rubber products	1,2	107,0	109,3	2,1	0,0
-Plastic products	2,7	107,0	107,9	0,8	0,0
Glass and non-metallic mineral products	4,9	106,6	104,0	-2,4	-0,1
-Glass and glass products	0,8	108,6	99,0	-8,8	-0,1
-Non-metallic mineral products	4,1	106,2	105,0	-1,1	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	107,6	105,6	-1,9	-0,4
-Basic iron and steel products	4,4	101,2	93,9	-7,2	-0,3
-Basic precious, non-ferrous metal products	3,5	109,8	103,4	-5,8	-0,2
-Fabricated metal products	5,7	111,0	115,0	3,6	0,2
-Machinery and equipment	6,7	107,7	106,5	-1,1	-0,1
Electrical machinery	2,4	104,4	105,3	0,9	0,0
Radio, television and communication apparatus and professional equipment	1,3	120,2	138,9	15,6	0,2
-Radio, television and communication apparatus	0,8	135,1	159,1	17,8	0,2
-Professional equipment	0,5	99,1	110,5	11,5	0,1
Motor vehicles, parts and accessories and other transport equipment	7,9	89,1	113,1	26,9	1,8
-Motor vehicles	3,2	84,1	138,4	64,6	1,6
-Bodies for motor vehicles, trailers and semi-trailers	0,6	116,7	110,3	-5,5	0,0
-Parts and accessories	2,9	88,1	88,9	0,9	0,0
-Other transport equipment	1,2	90,6	104,6	15,5	0,2
Furniture and other manufacturing division	3,2	93,1	99,4	6,8	0,2
-Furniture	0,9	112,2	115,6	3,0	0,0
-Other manufacturing groups	2,3	85,2	92,7	8,8	0,2
Total	100,0	105,7	108,2	2,4	2,4

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



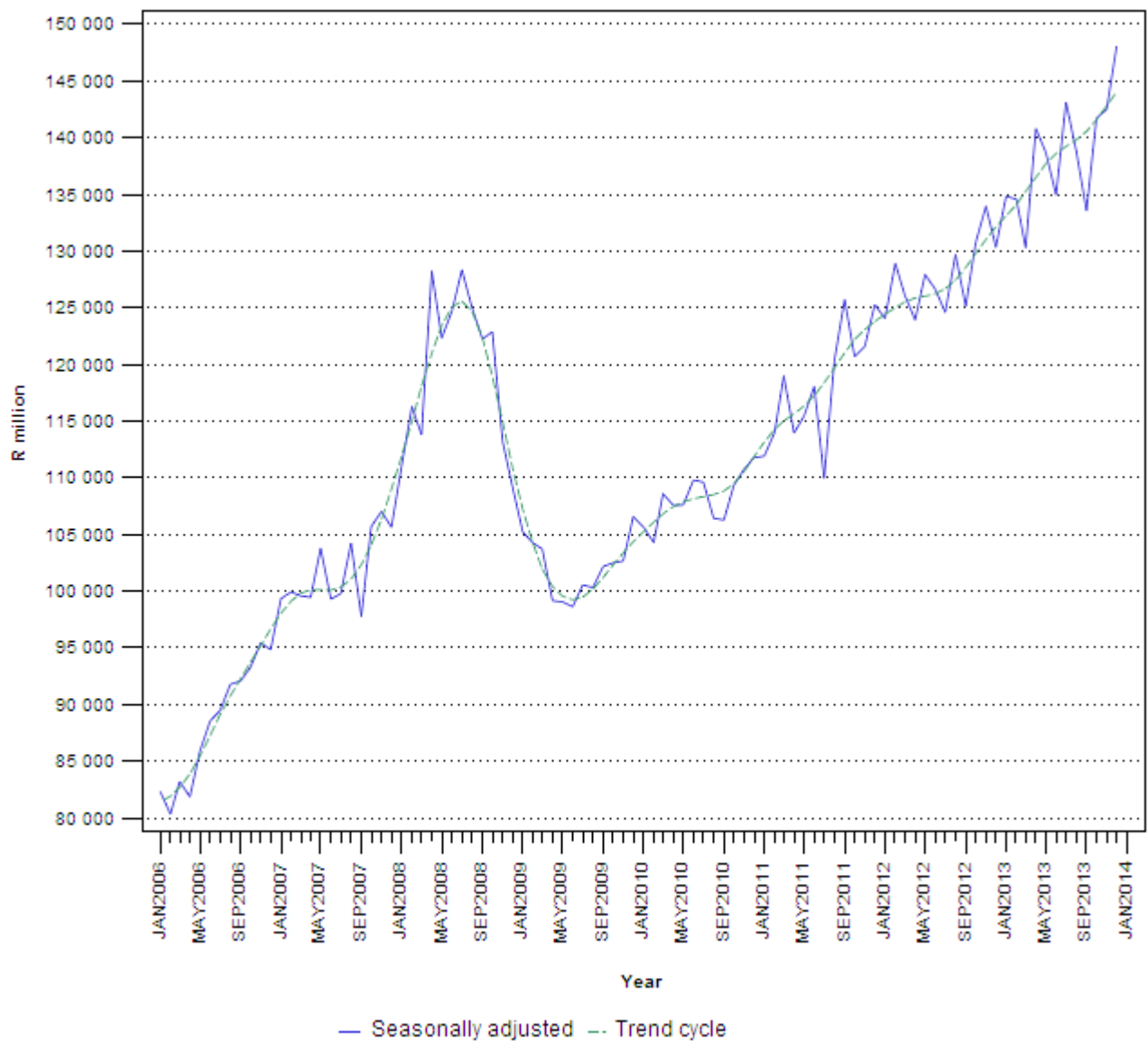
Seasonally adjusted sales of manufactured products (at current prices) increased by 4,0% (R16 771 million) in the fourth quarter of 2013 compared with the third quarter of 2013.

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were motor vehicles, parts and accessories and other transport equipment (21,5% or R9 107 million), petroleum, chemical products, rubber and plastic products (5,6% or R5 943 million) and food and beverages (2,6% or R2 299 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 July to September 2013	Seasonally adjusted sales October to December 2013	% change between July to September 2013 and October to December 2013	Difference in seasonally adjusted sales of manufacturing divisions between July to September 2013 and October to December 2013
	R'000	R'000	%	R'000
Food and beverages	87 897 016	90 196 464	2,6	2 299 448
-Food and food products	63 479 440	65 585 815	3,3	2 106 375
-Beverages	24 417 575	24 610 647	0,8	193 072
Textiles, clothing, leather and footwear	10 912 703	11 066 476	1,4	153 773
-Textiles	4 063 630	4 083 427	0,5	19 797
-Wearing apparel	4 245 989	4 225 517	-0,5	-20 472
-Leather and leather products	1 648 296	1 815 589	10,1	167 293
-Footwear	954 790	941 944	-1,3	-12 846
Wood and wood products, paper, publishing and printing	32 829 601	31 358 829	-4,5	-1 470 772
-Wood and products of wood	6 523 696	6 404 168	-1,8	-119 528
-Paper and paper products	14 763 136	14 395 969	-2,5	-367 167
-Publishing and printing	11 542 769	10 558 692	-8,5	-984 077
Petroleum, chemical products, rubber and plastic products	106 109 550	112 052 739	5,6	5 943 189
-Coke, petroleum products and nuclear fuel	45 610 993	50 164 136	10,0	4 553 143
-Basic chemicals	21 590 828	22 426 646	3,9	835 818
-Other chemical products	22 560 898	22 712 817	0,7	151 919
-Rubber products	3 635 493	3 914 732	7,7	279 239
-Plastic products	12 711 338	12 834 408	1,0	123 070
Glass and non-metallic mineral products	13 041 574	12 795 179	-1,9	-246 395
-Glass and glass products	2 320 417	2 161 212	-6,9	-159 205
-Non-metallic mineral products	10 721 157	10 633 967	-0,8	-87 190
Basic iron and steel, non-ferrous metal products, metal products and machinery	91 859 385	92 106 394	0,3	247 009
-Basic iron and steel products	27 047 143	26 433 822	-2,3	-613 321
-Basic precious, non-ferrous metal products	18 739 442	18 626 313	-0,6	-113 129
-Fabricated metal products	23 206 775	24 145 235	4,0	938 460
-Machinery and equipment	22 866 026	22 901 025	0,2	34 999
Electrical machinery	12 025 849	12 259 765	1,9	233 916
Radio, television and communication apparatus and professional equipment	4 641 146	5 277 585	13,7	636 439
-Radio, television and communication apparatus	2 340 207	2 735 165	16,9	394 958
-Professional equipment	2 300 940	2 542 421	10,5	241 481
Motor vehicles, parts and accessories and other transport equipment	42 369 324	51 476 128	21,5	9 106 804
-Motor vehicles, trailers, parts and accessories	37 939 966	46 216 751	21,8	8 276 785
-Other transport equipment	4 429 357	5 259 377	18,7	830 020
Furniture and other manufacturing division	13 810 868	13 678 767	-1,0	-132 101
-Furniture	3 450 409	3 489 826	1,1	39 417
-Other manufacturing groups	10 360 458	10 188 940	-1,7	-171 518
Total	415 497 018	432 268 326	4,0	16 771 308

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	102,2
May	115,1	115,4	94,2	100,6	101,7	106,8	109,2
Jun	110,7	115,7	94,5	102,9	104,1	104,9	105,4
Jul	113,1	116,0	98,2	105,3	99,0	106,0	112,0
Aug	116,1	115,8	96,3	101,6	107,6	109,9	110,1
Sep	110,1	114,4	99,9	102,2	110,0	107,9	104,4
Oct	125,9	120,8	108,4	110,3	112,6	116,8	1/ 118,9
Nov	125,9	113,7	107,9	112,2	116,3	121,1	1/ 121,5
Dec	97,2	86,3	89,2	91,0	93,8	95,3	1/ 97,7
Year	111,3	110,9	95,6	100,0	102,7	105,2	106,6

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	0,5
Jul	3,1	2,6	-15,3	7,2	-6,0	7,1	5,7
Aug	4,8	-0,3	-16,8	5,5	5,9	2,1	0,2
Sep	-1,5	3,9	-12,7	2,3	7,6	-1,9	-3,2
Oct	5,4	-4,1	-10,3	1,8	2,1	3,7	1,8
Nov	4,0	-9,7	-5,1	4,0	3,7	4,1	0,3
Dec	-0,2	-11,2	3,4	2,0	3,1	1,6	2,5
Year	4,2	-0,4	-13,8	4,6	2,7	2,4	1,3

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

Table 4a – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average for 2013	Actual indices			Seasonally adjusted indices		
			December 2012	1/ November 2013	1/ December 2013	December 2012	November 2013	December 2013
Food and beverages	22,1	108,0	112,1	121,0	117,7	102,3	107,9	107,9
-Meat, fish, fruit, etc.	4,4	109,4	106,6	123,8	121,0	98,6	113,0	112,2
-Dairy products	2,2	106,0	112,9	111,9	117,3	101,1	101,2	105,3
-Grain mill products	2,7	107,5	103,3	115,7	109,5	104,0	107,8	110,7
-Other food products	6,4	105,0	84,6	114,4	88,1	97,2	103,8	101,3
-Beverages	6,4	110,9	146,4	130,9	148,5	109,4	110,7	111,1
Textiles, clothing, leather and footwear	3,5	97,1	70,5	118,5	70,8	92,7	97,5	93,4
-Textiles	0,7	82,8	54,7	87,7	53,9	79,3	79,1	78,4
-Other textile products	0,4	95,1	70,6	116,6	70,7	95,2	95,7	95,7
-Knitted, crocheted articles	0,1	65,8	49,5	74,3	44,2	67,4	69,1	60,2
-Wearing apparel	1,6	100,9	78,0	124,8	74,0	97,9	99,4	93,3
-Leather and leather products	0,2	120,3	89,8	148,8	117,9	103,5	130,7	136,1
-Footwear	0,5	101,3	62,7	135,6	67,0	91,2	107,4	98,1
Wood and wood products, paper, publishing and printing	9,3	103,7	93,8	116,9	96,2	102,0	99,7	104,2
-Sawmilling and planing of wood	0,8	108,4	80,2	128,2	86,4	104,8	114,8	112,7
-Products of wood	1,7	98,8	83,2	114,0	68,6	99,8	95,2	82,3
-Paper and paper products	3,2	100,2	98,2	109,2	103,2	96,6	100,2	101,4
-Publishing	1,4	116,5	108,8	134,3	112,2	113,8	105,8	117,1
-Printing, recorded media	2,2	102,6	90,5	114,4	99,9	102,5	92,5	113,1
Petroleum, chemical products, rubber and plastic products	25,1	108,5	104,4	122,3	106,2	113,1	111,5	115,0
-Coke, petroleum products and nuclear fuel	8,0	101,9	113,8	106,8	114,7	113,5	112,6	114,8
-Basic chemicals	5,8	109,4	108,6	130,1	116,7	116,2	110,6	123,7
-Other chemical products	7,4	114,5	102,3	130,5	99,8	113,2	113,2	110,8
-Rubber products	1,2	113,0	72,0	124,3	72,8	110,0	109,6	111,8
-Plastic products	2,7	107,5	88,5	128,2	91,2	106,6	106,6	110,2
Glass and non-metallic mineral products	4,9	105,7	84,9	121,2	80,5	104,6	105,8	99,6
-Glass and glass products	0,8	105,7	99,6	116,8	94,8	104,6	96,5	99,7
-Non-metallic mineral products	4,1	105,6	82,0	122,0	77,7	104,5	107,5	99,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	106,0	86,4	116,1	88,6	101,9	105,4	105,4
-Basic iron and steel products	4,4	94,9	79,1	95,5	81,1	90,2	94,7	92,1
-Non-ferrous metal products	3,5	108,4	96,2	103,9	96,2	101,2	100,9	101,2
-Structural metal products	1,9	88,8	68,1	109,4	69,0	89,6	95,6	90,9
-Other fabricated metal products	3,8	119,4	78,5	142,4	94,5	108,4	120,4	130,9
-General purpose machinery	2,3	100,4	100,3	106,2	82,9	112,2	92,7	92,9
-Special purpose machinery	3,5	114,2	96,0	130,8	99,1	107,2	117,9	111,1
-Household appliances	0,9	113,6	82,5	134,2	86,2	112,8	116,5	117,9
Electrical machinery	2,4	104,5	72,4	119,2	73,0	97,5	105,4	98,3
Radio, television and communication apparatus and professional equipment	1,3	126,0	103,0	157,3	121,5	119,7	135,3	142,2
-Radio, television and communication apparatus	0,8	141,2	110,5	186,0	136,6	129,5	153,8	161,9
-Professional equipment	0,5	104,5	92,4	116,7	100,2	105,9	109,2	114,4
Motor vehicles, parts and accessories and other transport equipment	7,9	108,5	74,0	135,0	74,0	114,7	118,3	114,4
-Motor vehicles	3,2	124,6	75,9	170,2	78,1	133,8	149,6	138,8
-Bodies for motor vehicles, trailers and semi-trailers	0,6	111,2	70,7	136,1	70,6	104,4	113,6	104,0
-Parts and accessories	2,9	94,5	69,2	105,0	58,3	103,7	91,4	87,1
-Other transport equipment	1,2	97,1	82,3	111,6	103,9	94,9	101,0	120,6
Furniture and other manufacturing division	3,2	95,8	76,6	123,5	76,5	96,6	99,9	97,8
-Furniture	0,9	110,8	92,0	159,3	88,0	113,8	120,1	109,6
-Other manufacturing groups	2,3	89,6	70,2	108,6	71,7	89,5	91,5	92,8
Total	100,0	106,6	95,3	121,5	97,7	105,6	107,9	108,3

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 2013	Actual indices			Seasonally adjusted indices		
			December 2012	1/ December 2013	% change between December 2012 and December 2013	November 2013	December 2013	% change between November and December 2013
Food and beverages	22,1	108,0	112,1	117,7	5,0	107,9	107,9	0,0
-Meat, fish, fruit, etc.	4,4	109,4	106,6	121,0	13,5	113,0	112,2	-0,7
-Dairy products	2,2	106,0	112,9	117,3	3,9	101,2	105,3	4,1
-Grain mill products	2,7	107,5	103,3	109,5	6,0	107,8	110,7	2,7
-Other food products	6,4	105,0	84,6	88,1	4,1	103,8	101,3	-2,4
-Beverages	6,4	110,9	146,4	148,5	1,4	110,7	111,1	0,4
Textiles, clothing, leather and footwear	3,5	97,1	70,5	70,8	0,4	97,5	93,4	-4,2
-Textiles	0,7	82,8	54,7	53,9	-1,5	79,1	78,4	-0,9
-Other textile products	0,4	95,1	70,6	70,7	0,1	95,7	95,7	0,0
-Knitted, crocheted articles	0,1	65,8	49,5	44,2	-10,7	69,1	60,2	-12,9
-Wearing apparel	1,6	100,9	78,0	74,0	-5,1	99,4	93,3	-6,1
-Leather and leather products	0,2	120,3	89,8	117,9	31,3	130,7	136,1	4,1
-Footwear	0,5	101,3	62,7	67,0	6,9	107,4	98,1	-8,7
Wood and wood products, paper, publishing and printing	9,3	103,7	93,8	96,2	2,6	99,7	104,2	4,5
-Sawmilling and planing of wood	0,8	108,4	80,2	86,4	7,7	114,8	112,7	-1,8
-Products of wood	1,7	98,8	83,2	68,6	-17,5	95,2	82,3	-13,6
-Paper and paper products	3,2	100,2	98,2	103,2	5,1	100,2	101,4	1,2
-Publishing	1,4	116,5	108,8	112,2	3,1	105,8	117,1	10,7
-Printing, recorded media	2,2	102,6	90,5	99,9	10,4	92,5	113,1	22,3
Petroleum, chemical products, rubber and plastic products	25,1	108,5	104,4	106,2	1,7	111,5	115,0	3,1
-Coke, petroleum products and nuclear fuel	8,0	101,9	113,8	114,7	0,8	112,6	114,8	2,0
-Basic chemicals	5,8	109,4	108,6	116,7	7,5	110,6	123,7	11,8
-Other chemical products	7,4	114,5	102,3	99,8	-2,4	113,2	110,8	-2,1
-Rubber products	1,2	113,0	72,0	72,8	1,1	109,6	111,8	2,0
-Plastic products	2,7	107,5	88,5	91,2	3,1	106,6	110,2	3,4
Glass and non-metallic mineral products	4,9	105,7	84,9	80,5	-5,2	105,8	99,6	-5,9
-Glass and glass products	0,8	105,7	99,6	94,8	-4,8	96,5	99,7	3,3
-Non-metallic mineral products	4,1	105,6	82,0	77,7	-5,2	107,5	99,6	-7,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	106,0	86,4	88,6	2,5	105,4	105,4	0,0
-Basic iron and steel products	4,4	94,9	79,1	81,1	2,5	94,7	92,1	-2,7
-Non-ferrous metal products	3,5	108,4	96,2	96,2	0,0	100,9	101,2	0,3
-Structural metal products	1,9	88,8	68,1	69,0	1,3	95,6	90,9	-4,9
-Other fabricated metal products	3,8	119,4	78,5	94,5	20,4	120,4	130,9	8,7
-General purpose machinery	2,3	100,4	100,3	82,9	-17,3	92,7	92,9	0,2
-Special purpose machinery	3,5	114,2	96,0	99,1	3,2	117,9	111,1	-5,8
-Household appliances	0,9	113,6	82,5	86,2	4,5	116,5	117,9	1,2
Electrical machinery	2,4	104,5	72,4	73,0	0,8	105,4	98,3	-6,7
Radio, television and communication apparatus and professional equipment	1,3	126,0	103,0	121,5	18,0	135,3	142,2	5,1
-Radio, television and communication apparatus	0,8	141,2	110,5	136,6	23,6	153,8	161,9	5,3
-Professional equipment	0,5	104,5	92,4	100,2	8,4	109,2	114,4	4,8
Motor vehicles, parts and accessories and other transport equipment	7,9	108,5	74,0	74,0	0,0	118,3	114,4	-3,3
-Motor vehicles	3,2	124,6	75,9	78,1	2,9	149,6	138,8	-7,2
-Bodies for motor vehicles, trailers and semi-trailers	0,6	111,2	70,7	70,6	-0,1	113,6	104,0	-8,5
-Parts and accessories	2,9	94,5	69,2	58,3	-15,8	91,4	87,1	-4,7
-Other transport equipment	1,2	97,1	82,3	103,9	26,2	101,0	120,6	19,4
Furniture and other manufacturing division	3,2	95,8	76,6	76,5	-0,1	99,9	97,8	-2,1
-Furniture	0,9	110,8	92,0	88,0	-4,3	120,1	109,6	-8,7
-Other manufacturing groups	2,3	89,6	70,2	71,7	2,1	91,5	92,8	1,4
Total	100,0	106,6	95,3	97,7	2,5	107,9	108,3	0,4

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	83 305 965	93 280 502	87 916 275	88 548 858	94 246 456	105 443 384	114 667 597
Feb	95 420 251	110 769 560	99 565 792	100 040 055	109 522 908	123 677 978	129 430 936
Mar	102 759 188	117 621 056	107 737 720	113 278 092	123 964 153	130 984 336	135 367 021
Apr	92 877 708	119 609 521	92 230 272	99 980 962	106 169 292	115 493 885	131 245 797
May	104 205 853	122 938 629	98 715 959	107 436 033	115 621 248	128 068 083	138 886 360
Jun	101 154 327	127 601 209	100 377 623	111 752 400	120 091 539	128 588 051	136 903 333
Jul	101 798 105	131 369 593	102 048 423	110 963 260	110 987 187	125 462 845	143 961 443
Aug	107 658 150	129 126 848	103 007 029	108 663 903	122 688 235	132 094 313	141 465 771
Sep	102 989 748	128 633 004	107 188 812	111 184 472	130 818 755	129 532 600	137 779 801
Oct	116 363 030	135 163 841	112 486 658	119 561 318	131 429 847	141 820 125	1/ 153 497 418
Nov	118 990 834	125 995 637	114 583 579	124 219 561	136 700 911	150 484 487	1/ 160 182 955
Dec	94 537 958	98 974 837	97 356 722	102 518 765	115 525 999	121 426 485	1/ 137 956 793
Year	1 222 061 117	1 441 084 237	1 223 214 864	1 298 147 679	1 417 766 530	1 533 076 572	1 661 345 225

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

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	99 332 551	111 051 657	105 213 928	105 632 737	111 907 961	124 053 972	134 828 094
Feb	99 928 574	116 285 070	104 248 100	104 285 639	113 975 263	128 898 181	134 567 816
Mar	99 586 366	113 788 996	103 707 318	108 597 104	118 975 793	126 084 769	130 290 452
Apr	99 446 441	128 224 000	99 147 597	107 561 138	113 946 262	123 922 468	140 787 238
May	103 787 197	122 329 115	99 054 117	107 599 540	115 429 907	127 917 070	138 696 204
Jun	99 293 735	124 704 426	98 621 753	109 795 052	118 039 161	126 624 728	134 958 557
Jul	99 780 050	128 333 816	100 534 087	109 611 707	109 951 991	124 591 908	143 120 364
Aug	104 236 981	124 951 003	100 319 883	106 418 696	120 357 686	129 684 097	138 827 268
Sep	97 779 051	122 237 678	102 164 098	106 272 825	125 704 689	125 140 463	133 549 386
Oct	105 694 015	122 867 773	102 493 674	109 326 376	120 685 959	130 733 285	141 696 440
Nov	107 029 919	113 213 890	102 664 760	110 751 128	121 592 721	133 950 958	142 509 843
Dec	105 634 905	109 194 065	106 575 005	111 773 774	125 268 668	130 329 648	148 062 043

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

Manufacturing divisions and major groups	Year 2013	Actual values			Seasonally adjusted values		
		December 2012	1/ November 2013	1/ December 2013	December 2012	November 2013	December 2013
Food and beverages	350 605 882	32 093 429	33 507 871	35 662 186	27 447 096	29 671 907	30 575 312
-Meat, fish, fruit, etc.	88 133 721	7 357 374	8 587 703	8 647 475	6 581 858	7 719 625	7 748 738
-Dairy products	30 146 452	2 562 584	2 671 687	2 758 552	2 350 038	2 464 787	2 544 149
-Grain mill products	60 538 640	4 903 628	5 451 300	5 265 110	4 831 656	5 036 272	5 202 240
-Other food products	75 009 030	6 034 393	7 491 334	6 736 841	6 062 085	6 438 851	6 762 130
-Beverages	96 778 039	11 235 450	9 305 847	12 254 208	7 621 459	8 012 372	8 318 054
Textiles, clothing, leather and footwear	43 388 361	2 838 762	4 539 979	3 001 834	3 468 341	3 686 606	3 682 326
-Textiles	5 763 989	305 332	543 851	350 249	426 684	476 282	489 460
-Other textile products	10 526 375	658 927	1 087 497	683 729	820 289	877 642	852 686
-Knitted, crocheted articles	1 740 093	108 280	174 475	101 437	146 237	150 379	137 818
-Wearing apparel	15 201 495	1 056 297	1 635 842	1 070 343	1 210 375	1 285 859	1 230 246
-Leather and leather products	6 352 758	442 753	641 011	537 367	550 333	577 478	666 613
-Footwear	3 803 651	267 173	457 303	258 709	314 422	318 966	305 504
Wood and wood products, paper, publishing and printing	123 723 233	9 172 053	11 786 903	10 136 023	9 686 933	10 131 917	10 662 110
-Sawmilling and planing of wood	9 103 091	555 279	863 810	732 275	665 633	810 302	872 598
-Products of wood	16 096 941	1 070 179	1 595 875	971 568	1 298 537	1 325 451	1 182 503
-Paper and paper products	56 744 374	4 451 734	5 266 563	4 983 731	4 410 059	4 726 503	4 918 872
-Publishing	19 268 722	1 472 739	1 900 198	1 580 022	1 513 827	1 515 764	1 621 224
-Printing, recorded media	22 510 105	1 622 122	2 160 457	1 868 427	1 798 877	1 753 897	2 066 913
Petroleum, chemical products, rubber and plastic products	421 041 451	31 166 166	39 878 544	36 202 006	33 860 728	37 062 323	39 195 084
-Coke, petroleum products and nuclear fuel	180 117 559	14 011 013	15 547 078	17 175 307	15 075 763	16 604 743	18 376 508
-Basic chemicals	85 927 289	6 228 066	9 102 413	7 279 951	6 608 289	7 540 217	7 692 110
-Other chemical products	89 315 929	6 665 803	8 678 572	7 029 385	7 048 122	7 398 017	7 429 326
-Rubber products	15 681 997	960 469	1 487 093	1 053 700	1 231 981	1 291 781	1 355 073
-Plastic products	49 998 677	3 300 815	5 063 388	3 663 663	3 896 572	4 227 565	4 342 067
Glass and non-metallic mineral products	51 605 017	3 113 856	5 172 352	3 178 346	3 967 134	4 298 601	4 076 216
-Glass and glass products	9 022 131	675 369	939 620	665 806	705 703	698 429	699 017
-Non-metallic mineral products	42 582 886	2 438 487	4 232 732	2 512 540	3 261 431	3 600 172	3 377 199
Basic iron and steel, non-ferrous metal products, metal products and machinery	358 903 827	23 649 190	34 449 684	26 145 283	28 068 962	30 614 673	30 955 818
-Basic iron and steel products	103 508 911	6 219 375	9 370 622	7 193 519	7 987 557	8 672 275	9 156 189
-Non-ferrous metal products	72 720 461	5 508 234	6 889 746	6 136 451	5 654 198	6 173 775	6 253 438
-Structural metal products	31 077 435	2 037 369	3 269 303	2 049 404	2 658 107	2 837 079	2 677 289
-Other fabricated metal products	61 595 809	3 560 328	6 204 044	3 978 123	4 746 219	5 157 534	5 316 842
-General purpose machinery	32 901 592	2 515 283	3 042 474	2 439 130	2 806 384	2 650 683	2 729 176
-Special purpose machinery	45 847 645	3 165 333	4 565 554	3 583 144	3 401 359	4 149 672	3 852 595
-Household appliances	11 251 974	643 268	1 107 941	765 512	815 137	973 655	970 289
Electrical machinery	46 808 410	2 557 037	4 561 622	3 053 103	3 335 331	4 028 165	4 017 932
Radio, television and communication apparatus and professional equipment	18 867 144	1 347 163	1 906 791	1 671 292	1 439 540	1 696 355	1 794 876
-Radio, television and communication apparatus	9 539 664	620 288	1 043 665	843 127	670 705	871 927	922 305
-Professional equipment	9 327 480	726 875	863 126	828 165	768 834	824 428	872 571
Motor vehicles, parts and accessories and other transport equipment	192 418 653	11 507 102	19 279 438	14 742 282	14 676 330	16 823 105	18 554 140
-Motor vehicles	105 664 548	6 437 072	10 880 165	8 983 985	7 671 047	9 471 201	10 691 470
-Bodies for motor vehicles, trailers and semi-trailers	7 823 049	440 266	816 858	446 351	577 115	668 416	585 487
-Parts and accessories	59 930 092	3 332 754	5 767 851	3 519 697	4 929 992	5 032 107	5 198 278
-Other transport equipment	19 000 964	1 297 010	1 814 564	1 792 249	1 498 176	1 651 381	2 078 905
Furniture and other manufacturing division	53 983 247	3 981 727	5 099 771	4 164 438	4 379 256	4 496 191	4 548 229
-Furniture	13 459 640	969 585	1 613 489	936 826	1 146 714	1 190 972	1 113 230
-Other manufacturing groups	40 523 607	3 012 142	3 486 282	3 227 612	3 232 542	3 305 219	3 434 999
Total	1 661 345 225	121 426 485	160 182 955	137 956 793	130 329 648	142 509 843	148 062 043

1/ Preliminary.

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

Manufacturing divisions and major groups	Year 2013	Actual values			Seasonally adjusted values		
		December 2012	1/ December 2013	% change between December 2012 and December 2013	November 2013	December 2013	% change between November and December 2013
Food and beverages	350 605 882	32 093 429	35 662 186	11,1	29 671 907	30 575 312	3,0
-Meat, fish, fruit, etc.	88 133 721	7 357 374	8 647 475	17,5	7 719 625	7 748 738	0,4
-Dairy products	30 146 452	2 562 584	2 758 552	7,6	2 464 787	2 544 149	3,2
-Grain mill products	60 538 640	4 903 628	5 265 110	7,4	5 036 272	5 202 240	3,3
-Other food products	75 009 030	6 034 393	6 736 841	11,6	6 438 851	6 762 130	5,0
-Beverages	96 778 039	11 235 450	12 254 208	9,1	8 012 372	8 318 054	3,8
Textiles, clothing, leather and footwear	43 388 361	2 838 762	3 001 834	5,7	3 686 606	3 682 326	-0,1
-Textiles	5 763 989	305 332	350 249	14,7	476 282	489 460	2,8
-Other textile products	10 526 375	658 927	683 729	3,8	877 642	852 686	-2,8
-Knitted, crocheted articles	1 740 093	108 280	101 437	-6,3	150 379	137 818	-8,4
-Wearing apparel	15 201 495	1 056 297	1 070 343	1,3	1 285 859	1 230 246	-4,3
-Leather and leather products	6 352 758	442 753	537 367	21,4	577 478	666 613	15,4
-Footwear	3 803 651	267 173	258 709	-3,2	318 966	305 504	-4,2
Wood and wood products, paper, publishing and printing	123 723 233	9 172 053	10 136 023	10,5	10 131 917	10 662 110	5,2
-Sawmilling and planing of wood	9 103 091	555 279	732 275	31,9	810 302	872 598	7,7
-Products of wood	16 096 941	1 070 179	971 568	-9,2	1 325 451	1 182 503	-10,8
-Paper and paper products	56 744 374	4 451 734	4 983 731	12,0	4 726 503	4 918 872	4,1
-Publishing	19 268 722	1 472 739	1 580 022	7,3	1 515 764	1 621 224	7,0
-Printing, recorded media	22 510 105	1 622 122	1 868 427	15,2	1 753 897	2 066 913	17,8
Petroleum, chemical products, rubber and plastic products	421 041 451	31 166 166	36 202 006	16,2	37 062 323	39 195 084	5,8
-Coke, petroleum products and nuclear fuel	180 117 559	14 011 013	17 175 307	22,6	16 604 743	18 376 508	10,7
-Basic chemicals	85 927 289	6 228 066	7 279 951	16,9	7 540 217	7 692 110	2,0
-Other chemical products	89 315 929	6 665 803	7 029 385	5,5	7 398 017	7 429 326	0,4
-Rubber products	15 681 997	960 469	1 053 700	9,7	1 291 781	1 355 073	4,9
-Plastic products	49 998 677	3 300 815	3 663 663	11,0	4 227 565	4 342 067	2,7
Glass and non-metallic mineral products	51 605 017	3 113 856	3 178 346	2,1	4 298 601	4 076 216	-5,2
-Glass and glass products	9 022 131	675 369	665 806	-1,4	698 429	699 017	0,1
-Non-metallic mineral products	42 582 886	2 438 487	2 512 540	3,0	3 600 172	3 377 199	-6,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	358 903 827	23 649 190	26 145 283	10,6	30 614 673	30 955 818	1,1
-Basic iron and steel products	103 508 911	6 219 375	7 193 519	15,7	8 672 275	9 156 189	5,6
-Non-ferrous metal products	72 720 461	5 508 234	6 136 451	11,4	6 173 775	6 253 438	1,3
-Structural metal products	31 077 435	2 037 369	2 049 404	0,6	2 837 079	2 677 289	-5,6
-Other fabricated metal products	61 595 809	3 560 328	3 978 123	11,7	5 157 534	5 316 842	3,1
-General purpose machinery	32 901 592	2 515 283	2 439 130	-3,0	2 650 683	2 729 176	3,0
-Special purpose machinery	45 847 645	3 165 333	3 583 144	13,2	4 149 672	3 852 595	-7,2
-Household appliances	11 251 974	643 268	765 512	19,0	973 655	970 289	-0,3
Electrical machinery	46 808 410	2 557 037	3 053 103	19,4	4 028 165	4 017 932	-0,3
Radio, television and communication apparatus and professional equipment	18 867 144	1 347 163	1 671 292	24,1	1 696 355	1 794 876	5,8
-Radio, television and communication apparatus	9 539 664	620 288	843 127	35,9	871 927	922 305	5,8
-Professional equipment	9 327 480	726 875	828 165	13,9	824 428	872 571	5,8
Motor vehicles, parts and accessories and other transport equipment	192 418 653	11 507 102	14 742 282	28,1	16 823 105	18 554 140	10,3
-Motor vehicles	105 664 548	6 437 072	8 983 985	39,6	9 471 201	10 691 470	12,9
-Bodies for motor vehicles, trailers and semi-trailers	7 823 049	440 266	446 351	1,4	668 416	585 487	-12,4
-Parts and accessories	59 930 092	3 332 754	3 519 697	5,6	5 032 107	5 198 278	3,3
-Other transport equipment	19 000 964	1 297 010	1 792 249	38,2	1 651 381	2 078 905	25,9
Furniture and other manufacturing division	53 983 247	3 981 727	4 164 438	4,6	4 496 191	4 548 229	1,2
-Furniture	13 459 640	969 585	936 826	-3,4	1 190 972	1 113 230	-6,5
-Other manufacturing groups	40 523 607	3 012 142	3 227 612	7,2	3 305 219	3 434 999	3,9
Total	1 661 345 225	121 426 485	137 956 793	13,6	142 509 843	148 062 043	3,9

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)		
		Oct. to Dec. 2012	Oct. to Dec. 2013	% change between Oct. to Dec. 2012 and Oct. to Dec. 2013	Oct. to Dec. 2012	Oct. to Dec. 2013	% change between Oct. to Dec. 2012 and Oct. to Dec. 2013
Food and beverages	22,1	115,3	119,6	3,7	94 761 298	101 522 492	7,1
-Meat, fish, fruit, etc.	4,4	112,8	120,3	6,6	22 617 552	25 384 047	12,2
-Dairy products	2,2	118,6	115,8	-2,4	7 784 209	8 281 715	6,4
-Grain mill products	2,7	110,0	113,3	3,0	15 425 340	16 138 403	4,6
-Other food products	6,4	100,8	107,9	7,0	19 953 616	21 126 520	5,9
-Beverages	6,4	132,4	134,8	1,8	28 980 581	30 591 807	5,6
Textiles, clothing, leather and footwear	3,5	99,6	100,6	1,0	10 931 393	11 770 837	7,7
-Textiles	0,7	80,9	78,3	-3,2	1 339 579	1 459 874	9,0
-Other textile products	0,4	96,4	98,5	2,2	2 587 320	2 778 782	7,4
-Knitted, crocheted articles	0,1	66,7	63,2	-5,2	424 660	433 102	2,0
-Wearing apparel	1,6	109,0	105,0	-3,7	4 048 125	4 195 067	3,6
-Leather and leather products	0,2	108,6	137,1	26,2	1 453 072	1 794 838	23,5
-Footwear	0,5	99,4	108,6	9,3	1 078 637	1 109 174	2,8
Wood and wood products, paper, publishing and printing	9,3	114,1	109,4	-4,1	32 811 023	33 417 706	1,8
-Sawmilling and planing of wood	0,8	106,2	114,0	7,3	2 177 892	2 480 419	13,9
-Products of wood	1,7	106,6	99,5	-6,7	4 251 232	4 190 587	-1,4
-Paper and paper products	3,2	104,8	104,2	-0,6	14 213 295	15 088 579	6,2
-Publishing	1,4	145,3	128,3	-11,7	5 896 399	5 444 874	-7,7
-Printing, recorded media	2,2	115,4	110,3	-4,4	6 272 205	6 213 247	-0,9
Petroleum, chemical products, rubber and plastic products	25,1	115,3	115,9	0,5	103 593 199	114 304 056	10,3
-Coke, petroleum products and nuclear fuel	8,0	110,0	110,4	0,4	42 347 471	47 714 560	12,7
-Basic chemicals	5,8	120,0	120,9	0,8	22 191 395	24 650 501	11,1
-Other chemical products	7,4	118,9	120,5	1,3	22 407 750	24 366 321	8,7
-Rubber products	1,2	104,3	103,0	-1,2	3 712 249	3 876 954	4,4
-Plastic products	2,7	115,6	114,3	-1,1	12 934 334	13 695 720	5,9
Glass and non-metallic mineral products	4,9	106,3	107,2	0,8	12 560 133	13 425 648	6,9
-Glass and glass products	0,8	120,6	110,0	-8,8	2 439 524	2 519 023	3,3
-Non-metallic mineral products	4,1	103,5	106,7	3,1	10 120 609	10 906 625	7,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	106,2	107,2	0,9	85 819 647	93 488 337	8,9
-Basic iron and steel products	4,4	87,4	92,3	5,6	23 083 963	25 375 053	9,9
-Non-ferrous metal products	3,5	104,6	105,7	1,1	17 314 314	19 660 831	13,6
-Structural metal products	1,9	93,0	94,9	2,0	8 154 253	8 425 295	3,3
-Other fabricated metal products	3,8	115,6	125,3	8,4	14 756 156	16 127 957	9,3
-General purpose machinery	2,3	115,8	98,6	-14,9	8 806 774	8 568 023	-2,7
-Special purpose machinery	3,5	119,6	117,7	-1,6	11 043 851	12 381 856	12,1
-Household appliances	0,9	115,1	115,6	0,4	2 660 336	2 949 322	10,9
Electrical machinery	2,4	96,1	103,4	7,6	10 196 152	12 056 856	18,2
Radio, television and communication apparatus and professional equipment	1,3	132,1	144,2	9,2	4 715 890	5 487 141	16,4
-Radio, television and communication apparatus	0,8	150,4	168,4	12,0	2 403 131	2 933 827	22,1
-Professional equipment	0,5	106,2	109,9	3,5	2 312 759	2 553 314	10,4
Motor vehicles, parts and accessories and other transport equipment	7,9	104,5	110,1	5,4	44 637 791	51 772 726	16,0
-Motor vehicles	3,2	112,5	132,7	18,0	23 823 225	29 404 051	23,4
-Bodies for motor vehicles, trailers and semi-trailers	0,6	113,8	113,5	-0,3	1 900 810	2 058 079	8,3
-Parts and accessories	2,9	95,1	86,0	-9,6	14 172 123	15 000 702	5,8
-Other transport equipment	1,2	100,4	105,9	5,5	4 741 633	5 309 894	12,0
Furniture and other manufacturing division	3,2	109,8	106,3	-3,2	13 704 571	14 391 367	5,0
-Furniture	0,9	126,2	132,3	4,8	3 881 462	4 088 027	5,3
-Other manufacturing groups	2,3	102,9	95,5	-7,2	9 823 109	10 303 340	4,9
Total	100,0	111,1	112,7	1,4	413 731 097	451 637 166	9,2

Table 10 – Annual percentage change in the cumulative physical volume of manufacturing production and estimated sales according to manufacturing divisions and major groups

Manufacturing divisions and major groups	Weights 2010	Indices (base: 2010=100)				Value of sales (R million)			
		Jan. to Dec. 2012	Jan. to Dec. 2013	Annual % change between 2012 and 2013	Contribution (% points)	Jan. to Dec. 2012	Jan. to Dec. 2013	Annual % change between 2012 and 2013	Difference in sales between 2012 and 2013
Food and beverages	22,1	104,4	108,0	3,4	0,8	326 946	350 606	7,2	23 660
-Meat, fish, fruit, etc.	4,4	106,4	109,4	2,8	0,1	80 822	88 134	9,0	7 312
-Dairy products	2,2	108,8	106,0	-2,6	-0,1	28 312	30 146	6,5	1 834
-Grain mill products	2,7	105,1	107,5	2,3	0,1	56 101	60 539	7,9	4 438
-Other food products	6,4	97,4	105,0	7,8	0,5	71 712	75 009	4,6	3 297
-Beverages	6,4	108,0	110,9	2,7	0,2	89 998	96 778	7,5	6 780
Textiles, clothing, leather and footwear	3,5	95,7	97,1	1,5	0,0	40 405	43 388	7,4	2 983
-Textiles	0,7	87,1	82,8	-4,9	0,0	5 236	5 764	10,1	528
-Other textile products	0,4	96,4	95,1	-1,3	0,0	10 153	10 526	3,7	373
-Knitted, crocheted articles	0,1	71,5	65,8	-8,0	0,0	1 753	1 740	-0,7	13
-Wearing apparel	1,6	98,7	100,9	2,2	0,0	14 143	15 201	7,5	1 058
-Leather and leather products	0,2	107,2	120,3	12,2	0,0	5 510	6 353	15,3	843
-Footwear	0,5	95,8	101,3	5,7	0,0	3 609	3 804	5,4	195
Wood and wood products, paper, publishing and printing	9,3	103,9	103,7	-0,2	0,0	117 713	123 723	5,1	6 010
-Sawmilling and planing of wood	0,8	106,8	108,4	1,5	0,0	8 463	9 103	7,6	640
-Products of wood	1,7	100,3	98,8	-1,5	0,0	15 758	16 097	2,2	339
-Paper and paper products	3,2	98,6	100,2	1,6	0,0	53 173	56 744	6,7	3 571
-Publishing	1,4	115,4	116,5	1,0	0,0	18 135	19 269	6,3	1 134
-Printing, recorded media	2,2	105,6	102,6	-2,8	-0,1	22 185	22 510	1,5	325
Petroleum, chemical products, rubber and plastic products	25,1	107,2	108,5	1,2	0,3	376 487	421 041	11,8	44 554
-Coke, petroleum products and nuclear fuel	8,0	104,1	101,9	-2,1	-0,2	158 107	180 118	13,9	22 011
-Basic chemicals	5,8	106,9	109,4	2,3	0,1	76 439	85 927	12,4	9 488
-Other chemical products	7,4	109,1	114,5	4,9	0,4	79 423	89 316	12,5	9 893
-Rubber products	1,2	116,4	113,0	-2,9	0,0	15 264	15 682	2,7	418
-Plastic products	2,7	107,7	107,5	-0,2	0,0	47 254	49 999	5,8	2 745
Glass and non-metallic mineral products	4,9	103,8	105,7	1,8	0,1	47 180	51 605	9,4	4 425
-Glass and glass products	0,8	104,1	105,7	1,5	0,0	8 121	9 022	11,1	901
-Non-metallic mineral products	4,1	103,7	105,6	1,8	0,1	39 059	42 583	9,0	3 524
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	106,0	2,0	0,4	332 851	358 904	7,8	26 053
-Basic iron and steel products	4,4	92,2	94,9	2,9	0,1	96 706	103 509	7,0	6 803
-Non-ferrous metal products	3,5	97,3	108,4	11,4	0,4	62 624	72 720	16,1	10 096
-Structural metal products	1,9	98,1	88,8	-9,5	-0,2	32 287	31 077	-3,7	1 210
-Other fabricated metal products	3,8	113,1	119,4	5,6	0,2	57 444	61 596	7,2	4 152
-General purpose machinery	2,3	109,8	100,4	-8,6	-0,2	32 973	32 902	-0,2	71
-Special purpose machinery	3,5	112,0	114,2	2,0	0,1	40 219	45 848	14,0	5 629
-Household appliances	0,9	113,7	113,6	-0,1	0,0	10 599	11 252	6,2	653
Electrical machinery	2,4	101,3	104,5	3,2	0,1	42 563	46 808	10,0	4 245
Radio, television and communication apparatus and professional equipment	1,3	121,7	126,0	3,5	0,1	17 461	18 867	8,1	1 406
-Radio, television and communication apparatus	0,8	130,1	141,2	8,5	0,1	8 203	9 540	16,3	1 337
-Professional equipment	0,5	109,8	104,5	-4,8	0,0	9 258	9 327	0,7	69
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	108,5	-2,0	-0,2	178 804	192 419	7,6	13 615
-Motor vehicles	3,2	124,2	124,6	0,3	0,0	93 886	105 665	12,5	11 779
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	111,2	-0,8	0,0	7 328	7 823	6,8	495
-Parts and accessories	2,9	99,9	94,5	-5,4	-0,1	59 193	59 930	1,2	737
-Other transport equipment	1,2	99,3	97,1	-2,2	0,0	18 398	19 001	3,3	603
Furniture and other manufacturing division	3,2	103,6	95,8	-7,5	-0,2	52 666	53 983	2,5	1 317
-Furniture	0,9	111,5	110,8	-0,6	0,0	13 204	13 460	1,9	256
-Other manufacturing groups	2,3	100,3	89,6	-10,7	-0,2	39 462	40 524	2,7	1 062
Total	100,0	105,2	106,6	1,3	1,3	1 533 077	1 661 345	8,4	128 268

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

Explanatory notes

- Introduction**
- 1 Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry, covering manufacturing enterprises. This statistical release contains the results of a sample drawn from the business sampling frame (BSF), with enhanced coverage of South African businesses (see 4 below). The release contains monthly indices of the physical volume of manufacturing production and monthly value of sales of manufactured products by divisions and major groups within manufacturing.
 - 2 In accordance with international practice, the indices are re-based every five years to a new base year. The base period of the index is 2010. Both estimated and seasonally adjusted figures are presented.
 - 3 In order to improve timeliness, some information for the latest month had to be estimated for respondents who have not reported by the cut-off date for production of results. These estimates will be revised in future statistical releases when their reported information becomes available.
 - 4 As indicated earlier, Stats SA is continuously upgrading its BR, based on units registered for value added tax (VAT) and income tax (IT), obtained from the South African Revenue Service (SARS).
- Purpose of the survey**
- 5 The results of the monthly manufacturing production and sales survey are used to calculate indices of the physical volume of manufacturing production. These indices provide an indicator of the real level of manufacturing activity in the economy. They are used in monitoring the state of the economy and formulation of economic policy. They are also important inputs to estimation of the gross domestic product (GDP).
- Special Data Dissemination Standard of the IMF**
- 6 The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.
- Scope of the survey**
- 7 This survey covers manufacturing enterprises, i.e. those conducting activities in -
 - the manufacturing, processing, making or packing of products;
 - the slaughtering of animals, including poultry; and
 - installation, assembly, completion, repair and related work.
- Classification**
- 8 The 1993 edition of the *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 December 2013 was 89,4%. Improved collection rate for November 2013 was 90,9%.
- Statistical unit**
- 10 The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

Survey methodology and design

- 11 The survey is conducted monthly. Questionnaires are sent to a sample of 3 000 enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Fax and telephone reminders are used to follow up non-respondents.
- 12 The value of sales of manufactured products is obtained monthly from the sample of 3 000 enterprises, which was drawn in April 2013 from a population then of 47 605 manufacturing enterprises. Each manufacturing major group is divided into four size groups. The sample is drawn at the SIC three-digit level. All large enterprises (size group one), are completely enumerated. Simple random sampling is applied for size group two (medium sized) enterprises, and for size groups three and four (small) enterprises. The total value of sales of manufactured products of large enterprises (size group one) in a major group is added to the weighted totals of size groups two, three and four of that major group to reflect the total value of sales of the major group.
- 13 The calculation of the monthly production indices is based on the value of sales of products and articles manufactured and change in monthly value of stocks of manufactured products, after the effect of price changes has been eliminated through deflation using appropriate indices of the Production Price Index (PPI). For 38 of the 44 major groups in manufacturing, the value of production is calculated from the value of sales and stocks of manufactured products obtained from the monthly survey of manufacturing enterprises.
- 14 More direct indicators are used for the value of production of tobacco, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, motor vehicles and parts and accessories for motor vehicles. The volume indices for these major groups are calculated on the basis of physical quantities. This method is used by the national statistical agencies of many other countries for petroleum products as the results are considered more satisfactory (mainly because these commodities are relatively homogeneous).

Weighting methodology

- 15 For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form major group and division estimates. These procedures are consistent with international best practice.
- 16 For indices, a weight is calculated for every major group according to the value added of the major group relative to the total value added of the manufacturing industry as a whole, based on the results of the most recent large sample survey of the manufacturing industry or national accounts value added weights. For the period 2001 to 2004, the weights are based on the 2001 large sample survey of the manufacturing industry (LSS), for the period 2005 to 2009, the weights are based on the 2005 LSS 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 F 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 |

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 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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