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Statistical release

P3041.2

Manufacturing: Production and sales (Preliminary)

November 2013

Embargoed until:
9 January 2014
13:00

Enquiries:

User information services
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Forthcoming issue:

December 2013

Expected release date

11 February 2014

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Key figures for November 2013

Table A – Manufacturing production and sales

Estimates	November 2013	% change between November 2012 and November 2013	% change between September to November 2012 and September to November 2013	% change between January to November 2012 and January to November 2013
Physical volume of manufacturing production index (base: 2010=100)	121,5	0,3	-0,3	1,2
Total estimated sales of manufactured products (R million)	160 138	6,4	7,1	7,9

Seasonally adjusted estimates	November 2013	% change between October and November 2013	% change between June to August 2013 and September to November 2013
Physical volume of manufacturing production index (base: 2010=100)	108,4	0,3	-1,0
Total value of sales of manufactured products (R million)	142 329	0,8	0,1

Manufacturing production increased by 0,3% in November 2013 compared with November 2012.

The 0,3% year-on-year increase in manufacturing production in November 2013 was mainly due to higher production in the following divisions:

- motor vehicles, parts and accessories and other transport equipment (7,2% and contributing 0,6 of a percentage point);
- food and beverages (1,4% and contributing 0,3 of a percentage point); and
- glass and non-metallic minerals (5,5% and contributing 0,3 of a percentage point) (see Table 4b).

Seasonally adjusted manufacturing production for the three months ended November 2013 decreased by 1,0% compared with the previous three months. Six of the ten manufacturing divisions reported negative growth rates over this period.

The largest negative contributions to the decrease of 1,0% were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (-13,4% and contributing -1,1 percentage points); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (-2,8% and contributing -0,6 of a percentage point) (see Table B).

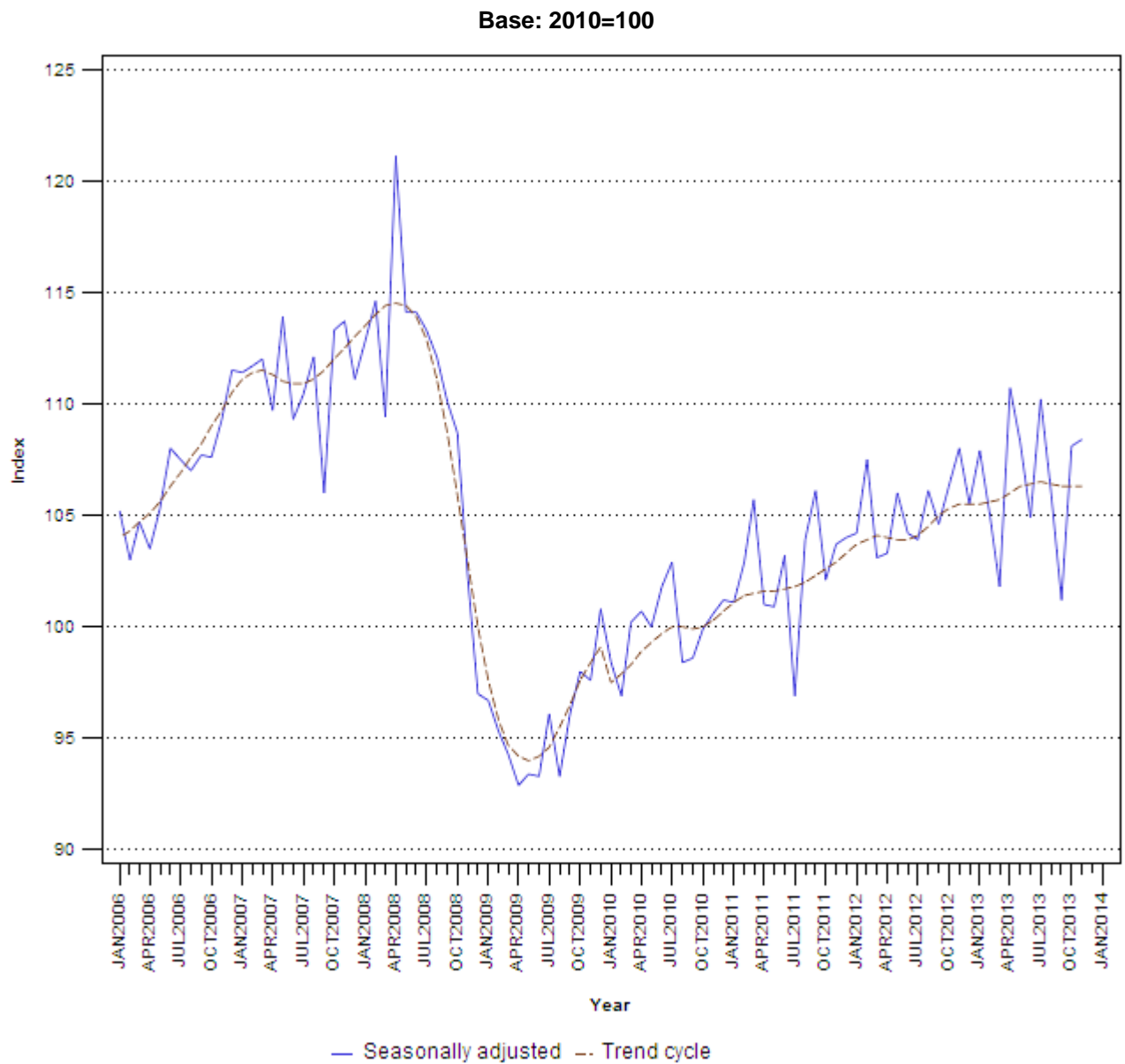
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average seasonally adjusted production index for June to August 2013	Average seasonally adjusted production September to November 2013	Quarterly % change of September to November 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	107,9	107,5	-0,4	-0,1
-Meat, fish, fruit, etc.	4,4	108,6	108,4	-0,2	0,0
-Dairy products	2,2	106,1	103,8	-2,2	0,0
-Grain mill products	2,7	106,6	106,8	0,2	0,0
-Other food products	6,4	103,4	104,8	1,4	0,1
-Beverages	6,4	112,8	111,2	-1,4	-0,1
Textiles, clothing, leather and footwear	3,5	98,4	96,2	-2,2	-0,1
-Textiles	1,1	88,8	85,3	-3,9	0,0
-Wearing apparel	1,7	99,7	97,7	-2,0	0,0
-Leather and leather products	0,2	125,6	131,5	4,7	0,0
-Footwear	0,5	103,3	99,7	-3,5	0,0
Wood and wood products, paper, publishing and printing	9,3	106,3	105,2	-1,0	-0,1
-Wood and products of wood	2,5	104,0	104,3	0,3	0,0
-Paper and paper products	3,2	102,9	102,4	-0,5	0,0
-Publishing and printing	3,6	110,9	108,3	-2,3	-0,1
Petroleum, chemical products, rubber and plastic products	25,1	106,9	110,0	2,9	0,7
-Coke, petroleum products and nuclear fuel	8,0	95,7	112,1	17,1	1,2
-Basic chemicals	5,8	112,5	102,5	-8,9	-0,5
-Other chemical products	7,4	113,3	116,4	2,7	0,2
-Rubber products	1,2	115,0	103,3	-10,2	-0,1
-Plastic products	2,7	107,1	105,4	-1,6	0,0
Glass and non-metallic mineral products	4,9	107,5	106,0	-1,4	-0,1
-Glass and glass products	0,8	113,1	99,0	-12,5	-0,1
-Non-metallic mineral products	4,1	106,4	107,3	0,8	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	108,5	105,5	-2,8	-0,6
-Basic iron and steel products	4,4	103,1	96,0	-6,9	-0,3
-Basic precious, non-ferrous metal products	3,5	111,5	105,2	-5,7	-0,2
-Fabricated metal products	5,7	108,0	113,0	4,6	0,3
-Machinery and equipment	6,7	111,1	105,6	-5,0	-0,3
Electrical machinery	2,4	105,4	106,4	0,9	0,0
Radio, television and communication apparatus and professional equipment	1,3	121,5	130,0	7,0	0,1
-Radio, television and communication apparatus	0,8	136,9	147,7	7,9	0,1
-Professional equipment	0,5	99,7	104,9	5,2	0,0
Motor vehicles, parts and accessories and other transport equipment	7,9	108,6	94,0	-13,4	-1,1
-Motor vehicles	3,2	118,5	104,5	-11,8	-0,4
-Bodies for motor vehicles, trailers and semi-trailers	0,6	114,3	118,5	3,7	0,0
-Parts and accessories	2,9	101,8	77,4	-24,0	-0,7
-Other transport equipment	1,2	94,6	92,4	-2,3	0,0
Furniture and other manufacturing division	3,2	94,4	95,7	1,4	0,0
-Furniture	0,9	110,4	115,0	4,2	0,0
-Other manufacturing groups	2,3	87,6	87,6	0,0	0,0
Total	100,0	107,0	105,9	-1,0	-1,0

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

Figure 1 – Index of the physical volume of manufacturing production: 2006 – 2013



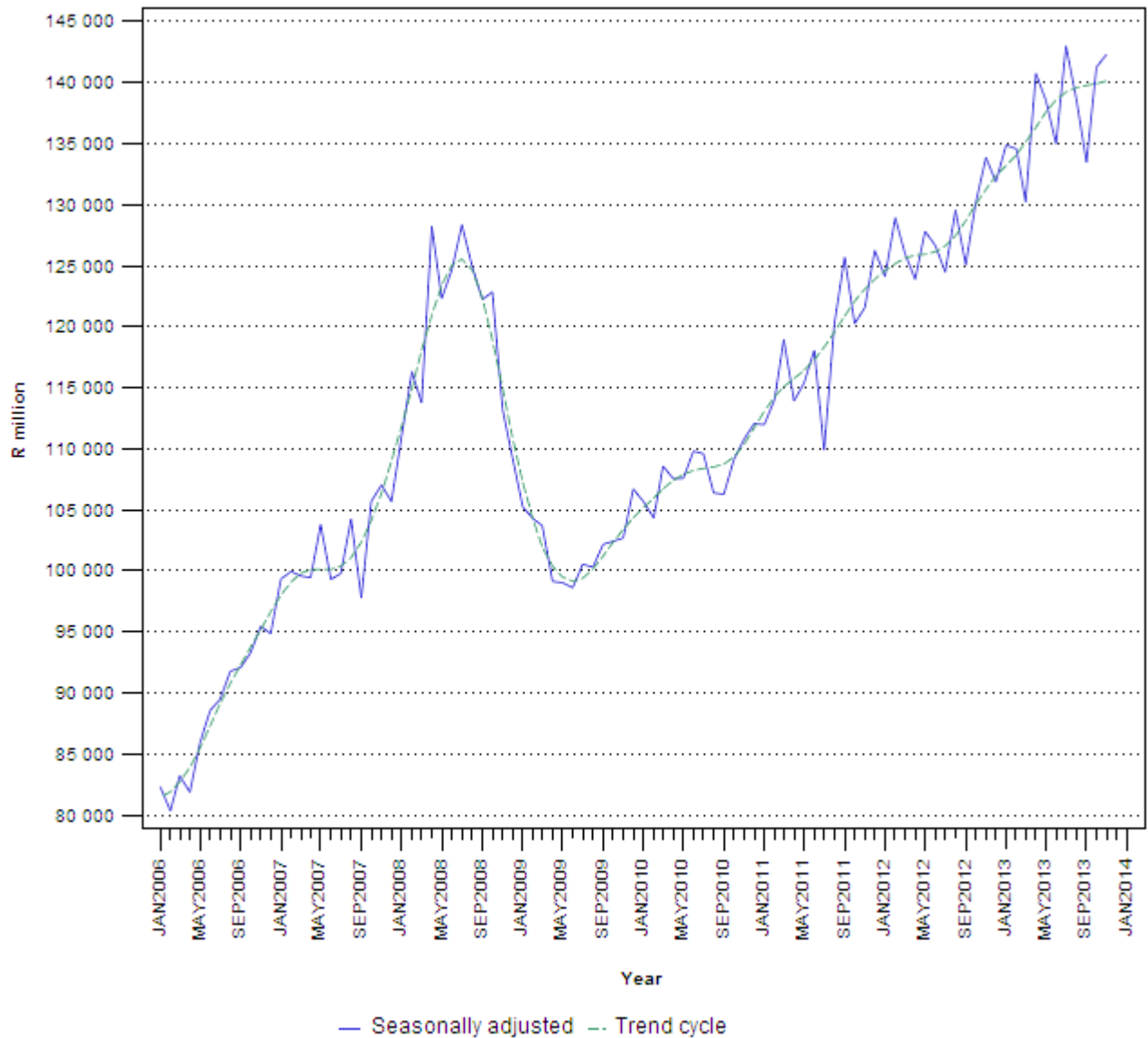
Seasonally adjusted sales of manufactured products (at current prices) for the three months ended November 2013 increased by 0,1% (R390 million) compared with the previous three months.

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were petroleum, chemical products, rubber and plastic products (2,7% or R2 871 million) and food and beverages (1,3% or R1 144 million). The motor vehicles, parts and accessories and other transport equipment division (-10,0% or -R4 809 million) was a significant negative contributor (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 June to August 2013	Seasonally adjusted sales September to November 2013	% change between June to August 2013 and September to November 2013	Difference in seasonally adjusted sales of manufacturing divisions between June to August 2013 and September to November 2013
	R'000	R'000	%	R'000
Food and beverages	87 041 791	88 185 513	1,3	1 143 722
-Food and food products	62 707 201	63 733 837	1,6	1 026 636
-Beverages	24 334 589	24 451 675	0,5	117 086
Textiles, clothing, leather and footwear	11 005 941	10 898 617	-1,0	-107 324
-Textiles	4 156 595	3 998 560	-3,8	-158 035
-Wearing apparel	4 261 061	4 262 878	0,0	1 817
-Leather and leather products	1 628 752	1 700 152	4,4	71 400
-Footwear	959 533	937 027	-2,3	-22 506
Wood and wood products, paper, publishing and printing	31 553 793	31 919 026	1,2	365 233
-Wood and products of wood	6 507 014	6 486 584	-0,3	-20 430
-Paper and paper products	14 375 104	14 575 728	1,4	200 624
-Publishing and printing	10 671 675	10 856 714	1,7	185 039
Petroleum, chemical products, rubber and plastic products	104 991 931	107 862 777	2,7	2 870 846
-Coke, petroleum products and nuclear fuel	44 887 012	46 901 044	4,5	2 014 032
-Basic chemicals	21 650 113	21 674 465	0,1	24 352
-Other chemical products	21 973 892	23 080 782	5,0	1 106 890
-Rubber products	3 921 752	3 581 653	-8,7	-340 099
-Plastic products	12 559 162	12 624 835	0,5	65 673
Glass and non-metallic mineral products	13 202 143	13 028 801	-1,3	-173 342
-Glass and glass products	2 402 020	2 208 897	-8,0	-193 123
-Non-metallic mineral products	10 800 123	10 819 904	0,2	19 781
Basic iron and steel, non-ferrous metal products, metal products and machinery	90 498 205	90 794 630	0,3	296 425
-Basic iron and steel products	26 015 620	25 985 036	-0,1	-30 584
-Basic precious, non-ferrous metal products	18 934 836	18 315 586	-3,3	-619 250
-Fabricated metal products	22 570 753	23 825 820	5,6	1 255 067
-Machinery and equipment	22 976 996	22 668 188	-1,3	-308 808
Electrical machinery	12 084 704	12 300 165	1,8	215 461
Radio, television and communication apparatus and professional equipment	4 555 509	5 092 992	11,8	537 483
-Radio, television and communication apparatus	2 315 977	2 615 881	12,9	299 904
-Professional equipment	2 239 532	2 477 111	10,6	237 579
Motor vehicles, parts and accessories and other transport equipment	48 029 840	43 220 531	-10,0	-4 809 309
-Motor vehicles, trailers, parts and accessories	43 422 025	38 618 185	-11,1	-4 803 840
-Other transport equipment	4 607 814	4 602 347	-0,1	-5 467
Furniture and other manufacturing division	13 698 879	13 749 941	0,4	51 062
-Furniture	3 383 369	3 478 929	2,8	95 560
-Other manufacturing groups	10 315 511	10 271 012	-0,4	-44 499
Total	416 662 737	417 052 994	0,1	390 257

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



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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	1/ 104,4
Oct	125,9	120,8	108,4	110,3	112,6	116,8	1/ 118,8
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	
Year	111,3	110,9	95,6	100,0	102,7	105,2	

1/ Preliminary.

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

Month	2007	2008	2009	2010	2011	2012	2013
Jan	5,4	0,7	-14,8	2,2	2,5	3,2	3,7
Feb	8,1	2,5	-16,7	1,2	6,4	4,6	-2,1
Mar	6,9	-2,2	-13,7	6,4	5,4	-2,6	-1,4
Apr	5,4	9,9	-23,2	7,9	0,3	1,8	7,1
May	8,2	0,3	-18,4	6,8	1,1	5,0	2,2
Jun	1,6	4,5	-18,3	8,9	1,2	0,8	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	1,7
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	
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	101,1	104,2	107,9
Feb	111,7	114,6	95,3	96,9	102,9	107,5	104,9
Mar	112,0	109,4	94,3	100,2	105,7	103,1	101,8
Apr	109,7	121,1	92,9	100,7	101,0	103,3	110,7
May	113,9	114,1	93,4	100,0	100,9	106,0	108,3
Jun	109,3	114,1	93,3	101,8	103,2	104,2	104,9
Jul	110,4	113,3	96,1	102,9	96,9	103,9	110,2
Aug	112,1	112,1	93,3	98,4	103,9	106,1	106,0
Sep	106,0	110,1	96,1	98,6	106,1	104,6	101,2
Oct	113,3	108,7	98,0	99,9	102,1	106,3	108,1
Nov	113,7	102,2	97,6	100,6	103,7	108,0	108,4
Dec	111,1	97,0	100,8	101,2	104,0	105,5	

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

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average for 2012	Actual indices			Seasonally adjusted indices		
			November 2012	1/ October 2013	1/ November 2013	November 2012	October 2013	November 2013
Food and beverages	22,1	104,4	118,1	120,0	119,7	105,8	108,7	107,0
-Meat, fish, fruit, etc.	4,4	106,4	115,4	114,4	114,7	106,7	110,0	106,2
-Dairy products	2,2	108,8	121,1	118,2	115,3	109,1	104,9	103,4
-Grain mill products	2,7	105,1	115,0	114,6	115,7	106,9	108,2	107,6
-Other food products	6,4	97,4	109,5	121,2	114,4	100,0	105,2	104,5
-Beverages	6,4	108,0	128,9	125,5	131,6	109,2	112,6	111,2
Textiles, clothing, leather and footwear	3,5	95,7	116,1	112,6	118,1	95,9	96,6	97,5
-Textiles	0,7	87,1	92,0	93,4	86,3	83,4	84,6	78,4
-Other textile products	0,4	96,4	114,9	108,3	118,5	94,2	94,8	96,9
-Knitted, crocheted articles	0,1	71,5	82,4	72,0	69,7	79,6	66,4	67,3
-Wearing apparel	1,6	98,7	128,5	116,2	124,1	103,0	98,7	99,7
-Leather and leather products	0,2	107,2	121,0	144,8	156,7	104,2	134,4	134,4
-Footwear	0,5	95,8	114,0	122,7	132,1	91,0	95,6	105,2
Wood and wood products, paper, publishing and printing	9,3	103,9	126,2	115,3	119,2	107,9	104,0	101,9
-Sawmilling and planing of wood	0,8	106,8	121,3	126,9	130,4	108,7	113,6	116,2
-Products of wood	1,7	100,3	121,8	115,7	116,9	102,4	101,8	98,2
-Paper and paper products	3,2	98,6	114,6	100,8	114,9	104,7	95,7	104,5
-Publishing	1,4	115,4	153,2	138,3	136,7	121,7	124,9	107,8
-Printing, recorded media	2,2	105,6	130,5	116,5	111,3	107,4	100,5	91,7
Petroleum, chemical products, rubber and plastic products	25,1	107,2	123,3	119,0	123,2	112,7	112,8	112,5
-Coke, petroleum products and nuclear fuel	8,0	104,1	108,9	109,8	106,8	115,0	115,3	113,3
-Basic chemicals	5,8	106,9	129,9	115,7	130,1	109,9	105,4	109,8
-Other chemical products	7,4	109,1	131,4	131,0	133,7	114,9	119,2	116,7
-Rubber products	1,2	116,4	117,8	113,0	117,8	105,7	106,9	105,6
-Plastic products	2,7	107,7	132,0	122,7	130,1	109,1	106,3	107,3
Glass and non-metallic mineral products	4,9	103,8	116,4	120,0	122,8	101,9	107,1	107,6
-Glass and glass products	0,8	104,1	129,0	118,3	117,4	105,4	100,5	96,4
-Non-metallic mineral products	4,1	103,7	114,0	120,3	123,8	101,2	108,4	109,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	117,5	116,7	115,8	106,9	106,2	105,3
-Basic iron and steel products	4,4	92,2	93,6	100,2	96,5	92,8	95,5	95,5
-Non-ferrous metal products	3,5	97,3	108,5	116,9	103,9	105,4	108,2	101,0
-Structural metal products	1,9	98,1	103,5	106,4	106,8	92,0	96,2	95,3
-Other fabricated metal products	3,8	113,1	136,2	138,6	141,1	115,0	123,6	119,1
-General purpose machinery	2,3	109,8	125,5	106,5	107,5	109,0	95,3	93,4
-Special purpose machinery	3,5	112,0	135,3	123,3	130,5	122,9	110,2	118,0
-Household appliances	0,9	113,7	129,9	126,1	131,8	111,8	110,5	113,5
Electrical machinery	2,4	101,3	113,0	116,2	120,8	100,4	109,8	107,1
Radio, television and communication apparatus and professional equipment	1,3	121,7	156,5	152,7	155,5	132,0	140,9	131,3
-Radio, television and communication apparatus	0,8	130,1	188,0	182,7	182,1	152,3	165,9	147,1
-Professional equipment	0,5	109,8	112,0	110,3	117,9	103,2	105,5	109,0
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	125,0	121,0	134,0	111,2	103,8	120,0
-Motor vehicles	3,2	124,2	139,4	149,8	166,8	124,6	121,4	150,8
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	139,3	136,7	147,3	115,6	117,1	122,5
-Parts and accessories	2,9	99,9	112,4	94,7	103,6	100,1	87,7	92,0
-Other transport equipment	1,2	99,3	108,3	97,8	111,6	99,0	87,8	102,7
Furniture and other manufacturing division	3,2	103,6	127,6	118,6	122,0	104,1	100,2	98,8
-Furniture	0,9	111,5	144,8	148,3	153,8	110,5	116,9	117,4
-Other manufacturing groups	2,3	100,3	120,5	106,2	108,7	101,4	93,3	91,0
Total	100,0	105,2	121,1	118,8	121,5	108,0	108,1	108,4

1/ Preliminary.

Table 4b – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups (concluded)

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average for 2012	Actual indices			Seasonally adjusted indices		
			November 2012	1/ November 2013	% change between November 2012 and November 2013	October 2013	November 2013	% change between October and November 2013
Food and beverages	22,1	104,4	118,1	119,7	1,4	108,7	107,0	-1,6
-Meat, fish, fruit, etc.	4,4	106,4	115,4	114,7	-0,6	110,0	106,2	-3,5
-Dairy products	2,2	108,8	121,1	115,3	-4,8	104,9	103,4	-1,4
-Grain mill products	2,7	105,1	115,0	115,7	0,6	108,2	107,6	-0,6
-Other food products	6,4	97,4	109,5	114,4	4,5	105,2	104,5	-0,7
-Beverages	6,4	108,0	128,9	131,6	2,1	112,6	111,2	-1,2
Textiles, clothing, leather and footwear	3,5	95,7	116,1	118,1	1,7	96,6	97,5	0,9
-Textiles	0,7	87,1	92,0	86,3	-6,2	84,6	78,4	-7,3
-Other textile products	0,4	96,4	114,9	118,5	3,1	94,8	96,9	2,2
-Knitted, crocheted articles	0,1	71,5	82,4	69,7	-15,4	66,4	67,3	1,4
-Wearing apparel	1,6	98,7	128,5	124,1	-3,4	98,7	99,7	1,0
-Leather and leather products	0,2	107,2	121,0	156,7	29,5	134,4	134,4	0,0
-Footwear	0,5	95,8	114,0	132,1	15,9	95,6	105,2	10,0
Wood and wood products, paper, publishing and printing	9,3	103,9	126,2	119,2	-5,5	104,0	101,9	-2,0
-Sawmilling and planing of wood	0,8	106,8	121,3	130,4	7,5	113,6	116,2	2,3
-Products of wood	1,7	100,3	121,8	116,9	-4,0	101,8	98,2	-3,5
-Paper and paper products	3,2	98,6	114,6	114,9	0,3	95,7	104,5	9,2
-Publishing	1,4	115,4	153,2	136,7	-10,8	124,9	107,8	-13,7
-Printing, recorded media	2,2	105,6	130,5	111,3	-14,7	100,5	91,7	-8,8
Petroleum, chemical products, rubber and plastic products	25,1	107,2	123,3	123,2	-0,1	112,8	112,5	-0,3
-Coke, petroleum products and nuclear fuel	8,0	104,1	108,9	106,8	-1,9	115,3	113,3	-1,7
-Basic chemicals	5,8	106,9	129,9	130,1	0,2	105,4	109,8	4,2
-Other chemical products	7,4	109,1	131,4	133,7	1,8	119,2	116,7	-2,1
-Rubber products	1,2	116,4	117,8	117,8	0,0	106,9	105,6	-1,2
-Plastic products	2,7	107,7	132,0	130,1	-1,4	106,3	107,3	0,9
Glass and non-metallic mineral products	4,9	103,8	116,4	122,8	5,5	107,1	107,6	0,5
-Glass and glass products	0,8	104,1	129,0	117,4	-9,0	100,5	96,4	-4,1
-Non-metallic mineral products	4,1	103,7	114,0	123,8	8,6	108,4	109,7	1,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	117,5	115,8	-1,4	106,2	105,3	-0,8
-Basic iron and steel products	4,4	92,2	93,6	96,5	3,1	95,5	95,5	0,0
-Non-ferrous metal products	3,5	97,3	108,5	103,9	-4,2	108,2	101,0	-6,7
-Structural metal products	1,9	98,1	103,5	106,8	3,2	96,2	95,3	-0,9
-Other fabricated metal products	3,8	113,1	136,2	141,1	3,6	123,6	119,1	-3,6
-General purpose machinery	2,3	109,8	125,5	107,5	-14,3	95,3	93,4	-2,0
-Special purpose machinery	3,5	112,0	135,3	130,5	-3,5	110,2	118,0	7,1
-Household appliances	0,9	113,7	129,9	131,8	1,5	110,5	113,5	2,7
Electrical machinery	2,4	101,3	113,0	120,8	6,9	109,8	107,1	-2,5
Radio, television and communication apparatus and professional equipment	1,3	121,7	156,5	155,5	-0,6	140,9	131,3	-6,8
-Radio, television and communication apparatus	0,8	130,1	188,0	182,1	-3,1	165,9	147,1	-11,3
-Professional equipment	0,5	109,8	112,0	117,9	5,3	105,5	109,0	3,3
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	125,0	134,0	7,2	103,8	120,0	15,6
-Motor vehicles	3,2	124,2	139,4	166,8	19,7	121,4	150,8	24,2
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	139,3	147,3	5,7	117,1	122,5	4,6
-Parts and accessories	2,9	99,9	112,4	103,6	-7,8	87,7	92,0	4,9
-Other transport equipment	1,2	99,3	108,3	111,6	3,0	87,8	102,7	17,0
Furniture and other manufacturing division	3,2	103,6	127,6	122,0	-4,4	100,2	98,8	-1,4
-Furniture	0,9	111,5	144,8	153,8	6,2	116,9	117,4	0,4
-Other manufacturing groups	2,3	100,3	120,5	108,7	-9,8	93,3	91,0	-2,5
Total	100,0	105,2	121,1	121,5	0,3	108,1	108,4	0,3

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	1/ 137 779 801
Oct	116 363 030	135 163 841	112 486 658	119 561 318	131 429 847	141 820 125	1/ 153 815 942
Nov	118 990 834	125 995 637	114 583 579	124 219 561	136 700 911	150 484 487	1/ 160 137 542
Dec	94 537 958	98 974 837	97 356 722	102 518 765	115 525 999	121 426 485	
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/ 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	8,5
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	
Year	15,2	17,9	-15,1	6,1	9,2	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	99 326 320	111 055 980	105 230 145	105 661 330	111 970 339	124 102 308	134 878 630
Feb	99 944 472	116 309 561	104 281 595	104 322 959	114 018 685	128 911 579	134 569 161
Mar	99 581 480	113 769 321	103 689 187	108 577 019	118 949 951	126 020 477	130 225 901
Apr	99 449 748	128 217 573	99 128 869	107 542 785	113 932 475	123 888 976	140 738 846
May	103 781 426	122 313 495	99 031 567	107 562 503	115 367 785	127 812 010	138 554 114
Jun	99 289 658	124 690 204	98 614 543	109 805 265	118 056 871	126 653 627	134 991 275
Jul	99 781 601	128 336 848	100 530 993	109 587 226	109 891 520	124 481 146	142 983 056
Aug	104 234 691	124 937 007	100 305 586	106 382 239	120 263 233	129 551 149	138 688 406
Sep	97 771 704	122 225 080	102 169 203	106 280 331	125 673 421	125 071 766	133 465 211
Oct	105 684 124	122 840 264	102 418 484	109 102 630	120 250 102	130 110 702	141 259 017
Nov	107 031 085	113 223 110	102 691 940	110 789 558	121 561 274	133 856 512	142 328 766
Dec	105 673 742	109 245 797	106 697 982	112 049 603	126 239 955	131 878 436	

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		
		November 2012	1/ October 2013	1/ November 2013	November 2012	October 2013	November 2013
Food and beverages	326 946 141	31 957 690	32 292 842	33 006 444	28 326 448	29 792 167	29 220 886
-Meat, fish, fruit, etc.	80 822 453	7 697 362	8 032 325	7 980 197	6 966 405	7 436 160	7 230 014
-Dairy products	28 312 329	2 588 475	2 853 713	2 745 067	2 381 332	2 613 549	2 520 431
-Grain mill products	56 100 754	5 348 067	5 431 904	5 439 838	4 926 932	5 099 029	5 014 310
-Other food products	71 712 263	7 064 338	6 905 314	7 489 974	6 081 638	6 347 351	6 431 763
-Beverages	89 998 342	9 259 448	9 069 586	9 351 368	7 970 140	8 296 078	8 024 367
Textiles, clothing, leather and footwear	40 404 981	4 223 167	4 235 619	4 560 829	3 435 132	3 702 657	3 711 764
-Textiles	5 235 984	514 073	565 774	542 570	450 293	493 154	474 619
-Other textile products	10 153 318	1 029 688	1 007 556	1 105 208	833 529	894 001	891 014
-Knitted, crocheted articles	1 753 481	173 455	157 519	162 228	159 037	152 598	147 992
-Wearing apparel	14 143 137	1 541 912	1 496 311	1 629 238	1 216 816	1 275 179	1 285 780
-Leather and leather products	5 510 187	522 904	616 460	677 821	463 919	571 143	599 617
-Footwear	3 608 874	441 135	391 999	443 764	311 537	316 582	312 742
Wood and wood products, paper, publishing and printing	117 712 985	12 040 985	11 494 854	12 065 339	10 316 896	10 567 763	10 324 667
-Sawmilling and planing of wood	8 463 057	825 686	876 128	889 021	754 300	772 780	809 965
-Products of wood	15 757 813	1 652 238	1 620 369	1 623 498	1 397 376	1 417 667	1 370 742
-Paper and paper products	53 172 649	5 192 180	4 849 340	5 506 080	4 605 443	4 771 614	4 855 106
-Publishing	18 134 518	2 064 531	1 964 654	1 934 099	1 674 382	1 754 182	1 558 609
-Printing, recorded media	22 184 948	2 306 350	2 184 363	2 112 641	1 885 396	1 851 520	1 730 245
Petroleum, chemical products, rubber and plastic products	376 486 756	36 986 031	38 759 812	39 941 205	34 188 798	36 003 816	36 836 436
-Coke, petroleum products and nuclear fuel	158 106 980	14 165 493	15 545 975	15 322 209	15 034 550	15 484 396	16 225 423
-Basic chemicals	76 438 686	8 347 870	8 261 983	9 041 761	6 914 124	7 156 607	7 445 195
-Other chemical products	79 423 187	8 192 060	8 653 794	9 060 977	6 962 852	7 863 032	7 697 273
-Rubber products	15 263 719	1 374 040	1 350 361	1 408 208	1 197 672	1 251 748	1 224 252
-Plastic products	47 254 184	4 906 568	4 947 699	5 108 050	4 079 601	4 248 033	4 244 295
Glass and non-metallic mineral products	47 180 190	4 830 708	5 075 394	5 238 687	4 030 548	4 461 409	4 368 476
-Glass and glass products	8 121 291	923 395	913 597	948 118	682 023	763 942	702 974
-Non-metallic mineral products	39 058 899	3 907 313	4 161 797	4 290 569	3 348 526	3 697 467	3 665 502
Basic iron and steel, non-ferrous metal products, metal products and machinery	332 851 058	32 120 361	32 858 819	34 016 734	28 661 375	30 476 414	30 243 966
-Basic iron and steel products	96 706 133	8 821 566	8 810 912	9 188 405	8 228 937	8 561 298	8 480 990
-Non-ferrous metal products	62 624 343	6 223 753	6 634 634	6 846 658	5 543 895	6 175 895	6 100 978
-Structural metal products	32 286 631	3 062 707	3 093 174	3 173 047	2 688 900	2 792 427	2 783 147
-Other fabricated metal products	57 443 513	5 786 189	5 942 814	6 161 863	4 826 135	5 349 710	5 123 549
-General purpose machinery	32 972 813	3 155 785	3 079 305	3 073 551	2 735 566	2 698 313	2 663 283
-Special purpose machinery	40 218 784	4 067 793	4 233 158	4 527 170	3 751 055	3 971 188	4 163 725
-Household appliances	10 598 841	1 002 568	1 064 822	1 046 040	886 888	927 583	928 294
Electrical machinery	42 562 562	3 991 738	4 433 305	4 713 840	3 517 728	4 248 919	4 149 362
Radio, television and communication apparatus and professional equipment	17 461 452	1 823 181	1 904 993	1 948 203	1 604 107	1 782 522	1 713 151
-Radio, television and communication apparatus	8 203 450	1 018 706	1 047 035	1 071 669	841 791	942 363	882 249
-Professional equipment	9 258 002	804 475	857 958	876 534	762 317	840 159	830 902
Motor vehicles, parts and accessories and other transport equipment	178 804 260	17 521 752	17 662 554	19 577 382	15 333 620	15 599 327	17 268 377
-Motor vehicles	93 885 515	9 279 925	9 544 047	11 050 086	8 175 378	8 110 216	9 861 954
-Bodies for motor vehicles, trailers and semi-trailers	7 327 565	740 111	811 102	896 386	604 806	694 502	733 556
-Parts and accessories	59 193 237	5 790 587	5 676 824	5 766 793	4 996 958	5 333 696	4 967 859
-Other transport equipment	18 397 943	1 711 129	1 630 581	1 864 117	1 556 478	1 460 914	1 705 008
Furniture and other manufacturing division	52 666 187	4 988 874	5 097 750	5 068 879	4 441 860	4 624 023	4 491 680
-Furniture	13 203 900	1 473 549	1 508 304	1 575 149	1 099 270	1 171 682	1 173 484
-Other manufacturing groups	39 462 287	3 515 325	3 589 446	3 493 730	3 342 590	3 452 341	3 318 196
Total	1 533 076 572	150 484 487	153 815 942	160 137 542	133 856 512	141 259 017	142 328 766

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		
		November 2012	1/ November 2013	% change between November 2012 and November 2013	October 2013	November 2013	% change between October and November 2013
Food and beverages	326 946 141	31 957 690	33 006 444	3,3	29 792 167	29 220 886	-1,9
-Meat, fish, fruit, etc.	80 822 453	7 697 362	7 980 197	3,7	7 436 160	7 230 014	-2,8
-Dairy products	28 312 329	2 588 475	2 745 067	6,0	2 613 549	2 520 431	-3,6
-Grain mill products	56 100 754	5 348 067	5 439 838	1,7	5 099 029	5 014 310	-1,7
-Other food products	71 712 263	7 064 338	7 489 974	6,0	6 347 351	6 431 763	1,3
-Beverages	89 998 342	9 259 448	9 351 368	1,0	8 296 078	8 024 367	-3,3
Textiles, clothing, leather and footwear	40 404 981	4 223 167	4 560 829	8,0	3 702 657	3 711 764	0,2
-Textiles	5 235 984	514 073	542 570	5,5	493 154	474 619	-3,8
-Other textile products	10 153 318	1 029 688	1 105 208	7,3	894 001	891 014	-0,3
-Knitted, crocheted articles	1 753 481	173 455	162 228	-6,5	152 598	147 992	-3,0
-Wearing apparel	14 143 137	1 541 912	1 629 238	5,7	1 275 179	1 285 780	0,8
-Leather and leather products	5 510 187	522 904	677 821	29,6	571 143	599 617	5,0
-Footwear	3 608 874	441 135	443 764	0,6	316 582	312 742	-1,2
Wood and wood products, paper, publishing and printing	117 712 985	12 040 985	12 065 339	0,2	10 567 763	10 324 667	-2,3
-Sawmilling and planing of wood	8 463 057	825 686	889 021	7,7	772 780	809 965	4,8
-Products of wood	15 757 813	1 652 238	1 623 498	-1,7	1 417 667	1 370 742	-3,3
-Paper and paper products	53 172 649	5 192 180	5 506 080	6,0	4 771 614	4 855 106	1,7
-Publishing	18 134 518	2 064 531	1 934 099	-6,3	1 754 182	1 558 609	-11,1
-Printing, recorded media	22 184 948	2 306 350	2 112 641	-8,4	1 851 520	1 730 245	-6,6
Petroleum, chemical products, rubber and plastic products	376 486 756	36 986 031	39 941 205	8,0	36 003 816	36 836 436	2,3
-Coke, petroleum products and nuclear fuel	158 106 980	14 165 493	15 322 209	8,2	15 484 396	16 225 423	4,8
-Basic chemicals	76 438 686	8 347 870	9 041 761	8,3	7 156 607	7 445 195	4,0
-Other chemical products	79 423 187	8 192 060	9 060 977	10,6	7 863 032	7 697 273	-2,1
-Rubber products	15 263 719	1 374 040	1 408 208	2,5	1 251 748	1 224 252	-2,2
-Plastic products	47 254 184	4 906 568	5 108 050	4,1	4 248 033	4 244 295	-0,1
Glass and non-metallic mineral products	47 180 190	4 830 708	5 238 687	8,4	4 461 409	4 368 476	-2,1
-Glass and glass products	8 121 291	923 395	948 118	2,7	763 942	702 974	-8,0
-Non-metallic mineral products	39 058 899	3 907 313	4 290 569	9,8	3 697 467	3 665 502	-0,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	332 851 058	32 120 361	34 016 734	5,9	30 476 414	30 243 966	-0,8
-Basic iron and steel products	96 706 133	8 821 566	9 188 405	4,2	8 561 298	8 480 990	-0,9
-Non-ferrous metal products	62 624 343	6 223 753	6 846 658	10,0	6 175 895	6 100 978	-1,2
-Structural metal products	32 286 631	3 062 707	3 173 047	3,6	2 792 427	2 783 147	-0,3
-Other fabricated metal products	57 443 513	5 786 189	6 161 863	6,5	5 349 710	5 123 549	-4,2
-General purpose machinery	32 972 813	3 155 785	3 073 551	-2,6	2 698 313	2 663 283	-1,3
-Special purpose machinery	40 218 784	4 067 793	4 527 170	11,3	3 971 188	4 163 725	4,8
-Household appliances	10 598 841	1 002 568	1 046 040	4,3	927 583	928 294	0,1
Electrical machinery	42 562 562	3 991 738	4 713 840	18,1	4 248 919	4 149 362	-2,3
Radio, television and communication apparatus and professional equipment	17 461 452	1 823 181	1 948 203	6,9	1 782 522	1 713 151	-3,9
-Radio, television and communication apparatus	8 203 450	1 018 706	1 071 669	5,2	942 363	882 249	-6,4
-Professional equipment	9 258 002	804 475	876 534	9,0	840 159	830 902	-1,1
Motor vehicles, parts and accessories and other transport equipment	178 804 260	17 521 752	19 577 382	11,7	15 599 327	17 268 377	10,7
-Motor vehicles	93 885 515	9 279 925	11 050 086	19,1	8 110 216	9 861 954	21,6
-Bodies for motor vehicles, trailers and semi-trailers	7 327 565	740 111	896 386	21,1	694 502	733 556	5,6
-Parts and accessories	59 193 237	5 790 587	5 766 793	-0,4	5 333 696	4 967 859	-6,9
-Other transport equipment	18 397 943	1 711 129	1 864 117	8,9	1 460 914	1 705 008	16,7
Furniture and other manufacturing division	52 666 187	4 988 874	5 068 879	1,6	4 624 023	4 491 680	-2,9
-Furniture	13 203 900	1 473 549	1 575 149	6,9	1 171 682	1 173 484	0,2
-Other manufacturing groups	39 462 287	3 515 325	3 493 730	-0,6	3 452 341	3 318 196	-3,9
Total	1 533 076 572	150 484 487	160 137 542	6,4	141 259 017	142 328 766	0,8

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)		
		Sep. to Nov. 2012	Sep. to Nov. 2013	% change between Sep. to Nov. 2012 and Sep. to Nov. 2013	Sep. to Nov. 2012	Sep. to Nov. 2013	% change between Sep. to Nov. 2012 and Sep. to Nov. 2013
Food and beverages	22,1	113,5	117,3	3,3	90 561 049	95 327 160	5,3
-Meat, fish, fruit, etc.	4,4	113,6	113,6	0,0	22 308 832	23 583 766	5,7
-Dairy products	2,2	117,4	113,5	-3,3	7 507 520	8 103 534	7,9
-Grain mill products	2,7	112,5	113,3	0,7	15 457 388	16 049 919	3,8
-Other food products	6,4	106,3	116,7	9,8	20 026 433	20 852 436	4,1
-Beverages	6,4	119,7	123,5	3,2	25 260 876	26 737 505	5,8
Textiles, clothing, leather and footwear	3,5	109,4	109,8	0,4	11 446 415	12 345 056	7,9
-Textiles	0,7	91,6	87,8	-4,1	1 465 240	1 589 193	8,5
-Other textile products	0,4	104,8	102,8	-1,9	2 751 624	2 875 986	4,5
-Knitted, crocheted articles	0,1	71,2	69,7	-2,1	441 425	458 080	3,8
-Wearing apparel	1,6	118,4	115,1	-2,8	4 218 777	4 429 028	5,0
-Leather and leather products	0,2	112,4	140,5	25,0	1 436 155	1 824 646	27,1
-Footwear	0,5	114,4	121,7	6,4	1 133 194	1 168 123	3,1
Wood and wood products, paper, publishing and printing	9,3	119,8	117,2	-2,2	34 124 057	35 432 648	3,8
-Sawmilling and planing of wood	0,8	114,8	124,1	8,1	2 309 608	2 587 353	12,0
-Products of wood	1,7	112,3	112,1	-0,2	4 538 658	4 667 316	2,8
-Paper and paper products	3,2	106,7	110,4	3,5	14 584 440	15 859 630	8,7
-Publishing	1,4	152,0	143,9	-5,3	6 074 999	6 121 942	0,8
-Printing, recorded media	2,2	125,1	110,6	-11,6	6 616 352	6 196 407	-6,3
Petroleum, chemical products, rubber and plastic products	25,1	117,0	115,6	-1,2	103 822 772	114 297 395	10,1
-Coke, petroleum products and nuclear fuel	8,0	106,4	105,7	-0,7	40 624 990	45 666 355	12,4
-Basic chemicals	5,8	119,6	113,2	-5,4	22 795 836	24 780 989	8,7
-Other chemical products	7,4	123,4	127,4	3,2	22 664 258	25 622 977	13,1
-Rubber products	1,2	120,4	110,3	-8,4	3 989 666	3 869 614	-3,0
-Plastic products	2,7	123,5	119,7	-3,1	13 748 022	14 357 460	4,4
Glass and non-metallic mineral products	4,9	112,3	116,8	4,0	13 469 099	14 873 091	10,4
-Glass and glass products	0,8	127,7	114,8	-10,1	2 617 670	2 704 289	3,3
-Non-metallic mineral products	4,1	109,4	117,2	7,1	10 851 429	12 168 802	12,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	112,1	113,5	1,2	89 349 992	97 785 538	9,4
-Basic iron and steel products	4,4	95,3	98,0	2,8	24 447 916	26 837 734	9,8
-Non-ferrous metal products	3,5	105,1	109,5	4,2	17 009 981	19 841 553	16,6
-Structural metal products	1,9	101,8	101,9	0,1	8 840 967	8 895 975	0,6
-Other fabricated metal products	3,8	126,9	135,7	6,9	15 968 029	17 455 127	9,3
-General purpose machinery	2,3	120,6	104,7	-13,2	9 192 352	8 994 275	-2,2
-Special purpose machinery	3,5	121,5	122,2	0,6	11 045 643	12 697 897	15,0
-Household appliances	0,9	122,0	122,5	0,4	2 845 104	3 062 977	7,7
Electrical machinery	2,4	107,0	116,1	8,5	11 308 907	13 321 084	17,8
Radio, television and communication apparatus and professional equipment	1,3	143,0	144,3	0,9	4 962 932	5 581 632	12,5
-Radio, television and communication apparatus	0,8	161,3	166,1	3,0	2 486 292	2 942 524	18,3
-Professional equipment	0,5	117,2	113,4	-3,2	2 476 640	2 639 108	6,6
Motor vehicles, parts and accessories and other transport equipment	7,9	119,1	104,8	-12,0	48 812 903	47 930 340	-1,8
-Motor vehicles	3,2	134,3	119,7	-10,9	25 874 499	25 718 838	-0,6
-Bodies for motor vehicles, trailers and semi-trailers	0,6	126,6	134,1	5,9	2 073 222	2 456 464	18,5
-Parts and accessories	2,9	105,5	84,5	-19,9	15 863 731	14 860 946	-6,3
-Other transport equipment	1,2	106,3	97,9	-7,9	5 001 451	4 894 092	-2,1
Furniture and other manufacturing division	3,2	117,3	109,1	-7,0	13 979 086	14 839 341	6,2
-Furniture	0,9	134,6	139,6	3,7	4 028 075	4 256 827	5,7
-Other manufacturing groups	2,3	110,0	96,4	-12,4	9 951 011	10 582 514	6,3
Total	100,0	115,3	114,9	-0,3	421 837 212	451 733 285	7,1

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 November 2013 was 80,1%. Improved collection rate for October 2013 was 91,9%.
- 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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