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Key figures for September 2013

Table A – Manufacturing production and sales

Estimates	September 2013	% change between September 2012 and September 2013	% change between July to September 2012 and July to September 2013	% change between January to September 2012 and January to September 2013
Physical volume of manufacturing production index (base: 2010=100)	104,3	-3,3	0,8	1,3
Total estimated sales of manufactured products (R million)	138 173	6,7	9,5	8,1

Seasonally adjusted estimates	September 2013	% change between August and September 2013	% change between April to June 2013 and July to September 2013
Physical volume of manufacturing production index (base: 2010=100)	101,0	-4,7	-2,1
Total value of sales of manufactured products (R million)	133 555	-3,6	0,2

Manufacturing production decreased by 3,3% in September 2013 compared with September 2012.

The 3,3% year-on-year decrease in manufacturing production in September 2013 was mainly due to lower production in the motor vehicles, parts and accessories and other transport equipment division (-49,7% and contributing -4,3 percentage points). The automotive industry was adversely affected by a strike during August and September 2013.

Seasonally adjusted manufacturing production for the third quarter of 2013 decreased by 2,1% compared with the previous quarter. Eight of the ten manufacturing divisions reported negative growth rates over this period.

The motor vehicles, parts and accessories and other transport equipment division (-26,6% and contributing -2,4 percentage points) was the largest negative contributor to the decrease in the third quarter of 2013 compared with the previous quarter (see Table B).

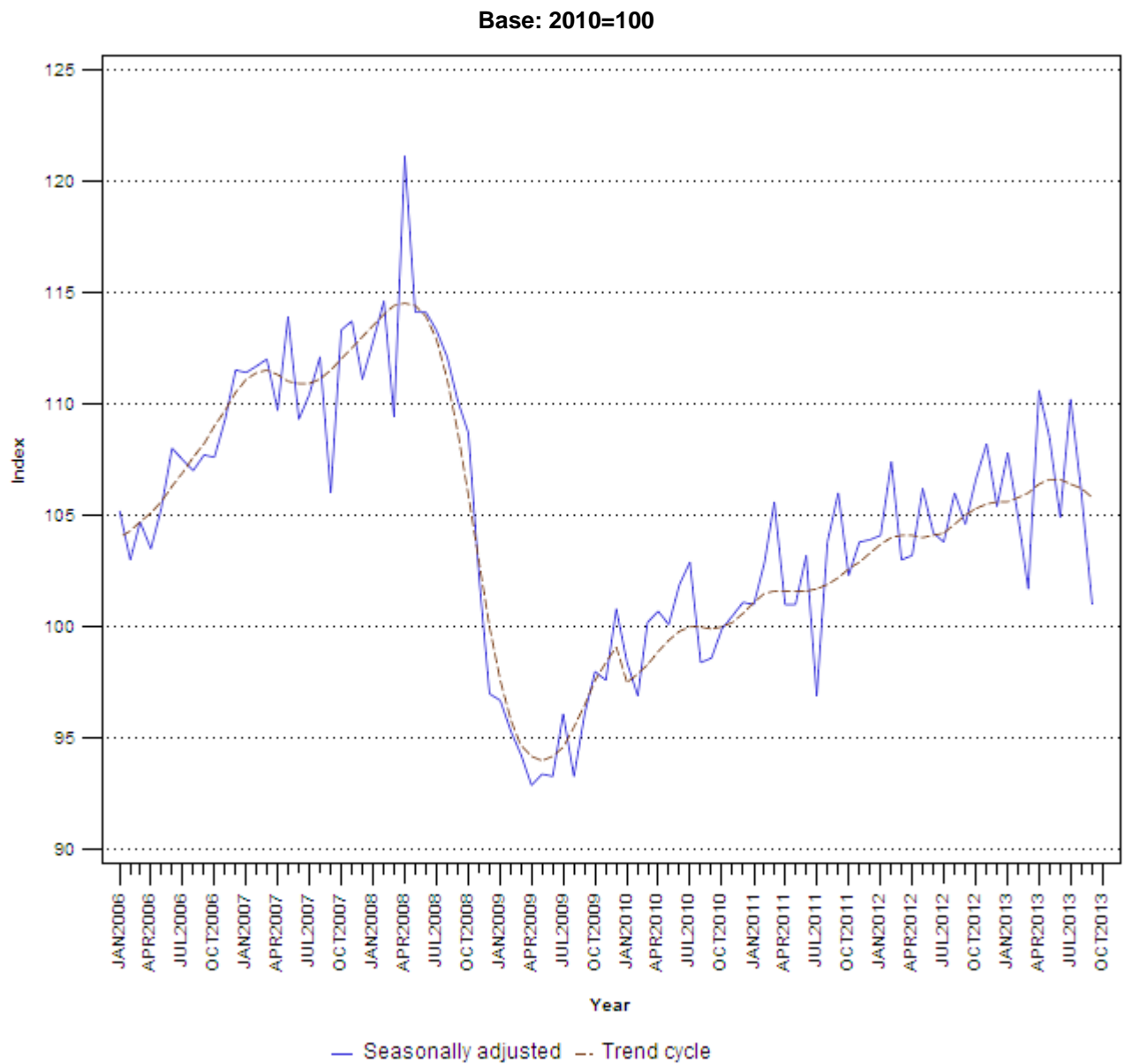
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average seasonally adjusted production April to June 2013	Average seasonally adjusted production July to September 2013	Quarterly % change of July to September 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	108,9	108,0	-0,8	-0,2
-Meat, fish, fruit, etc.	4,4	110,0	109,9	-0,1	0,0
-Dairy products	2,2	108,8	105,0	-3,5	-0,1
-Grain mill products	2,7	110,4	106,2	-3,8	-0,1
-Other food products	6,4	106,7	105,1	-1,5	-0,1
-Beverages	6,4	109,5	111,6	1,9	0,1
Textiles, clothing, leather and footwear	3,5	100,0	97,1	-2,9	-0,1
-Textiles	1,1	91,9	86,3	-6,1	-0,1
-Wearing apparel	1,7	102,3	98,7	-3,5	-0,1
-Leather and leather products	0,2	114,5	126,3	10,3	0,0
-Footwear	0,5	104,1	102,4	-1,6	0,0
Wood and wood products, paper, publishing and printing	9,3	101,2	109,4	8,1	0,7
-Wood and products of wood	2,5	102,8	104,8	1,9	0,0
-Paper and paper products	3,2	100,2	104,6	4,4	0,1
-Publishing and printing	3,6	100,9	116,7	15,7	0,5
Petroleum, chemical products, rubber and plastic products	25,1	105,7	107,9	2,1	0,5
-Coke, petroleum products and nuclear fuel	8,0	91,8	102,8	12,0	0,8
-Basic chemicals	5,8	110,1	106,0	-3,7	-0,2
-Other chemical products	7,4	113,7	115,4	1,5	0,1
-Rubber products	1,2	124,4	107,1	-13,9	-0,2
-Plastic products	2,7	107,2	107,3	0,1	0,0
Glass and non-metallic mineral products	4,9	108,9	106,3	-2,4	-0,1
-Glass and glass products	0,8	112,6	109,2	-3,0	0,0
-Non-metallic mineral products	4,1	108,3	105,8	-2,3	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	109,9	107,6	-2,1	-0,4
-Basic iron and steel products	4,4	100,7	102,0	1,3	0,1
-Basic precious, non-ferrous metal products	3,5	112,7	109,9	-2,5	-0,1
-Fabricated metal products	5,7	106,3	110,5	4,0	0,2
-Machinery and equipment	6,7	117,6	107,5	-8,6	-0,6
Electrical machinery	2,4	107,1	105,0	-2,0	0,0
Radio, television and communication apparatus and professional equipment	1,3	126,2	119,4	-5,4	-0,1
-Radio, television and communication apparatus	0,8	142,5	134,9	-5,3	-0,1
-Professional equipment	0,5	103,0	97,4	-5,4	0,0
Motor vehicles, parts and accessories and other transport equipment	7,9	122,4	89,8	-26,6	-2,4
-Motor vehicles	3,2	150,5	86,1	-42,8	-1,9
-Bodies for motor vehicles, trailers and semi-trailers	0,6	113,9	116,3	2,1	0,0
-Parts and accessories	2,9	102,5	87,9	-14,2	-0,4
-Other transport equipment	1,2	98,7	90,0	-8,8	-0,1
Furniture and other manufacturing division	3,2	93,0	92,5	-0,5	0,0
-Furniture	0,9	108,1	111,8	3,4	0,0
-Other manufacturing groups	2,3	86,7	84,4	-2,7	0,0
Total	100,0	108,0	105,7	-2,1	-2,1

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

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



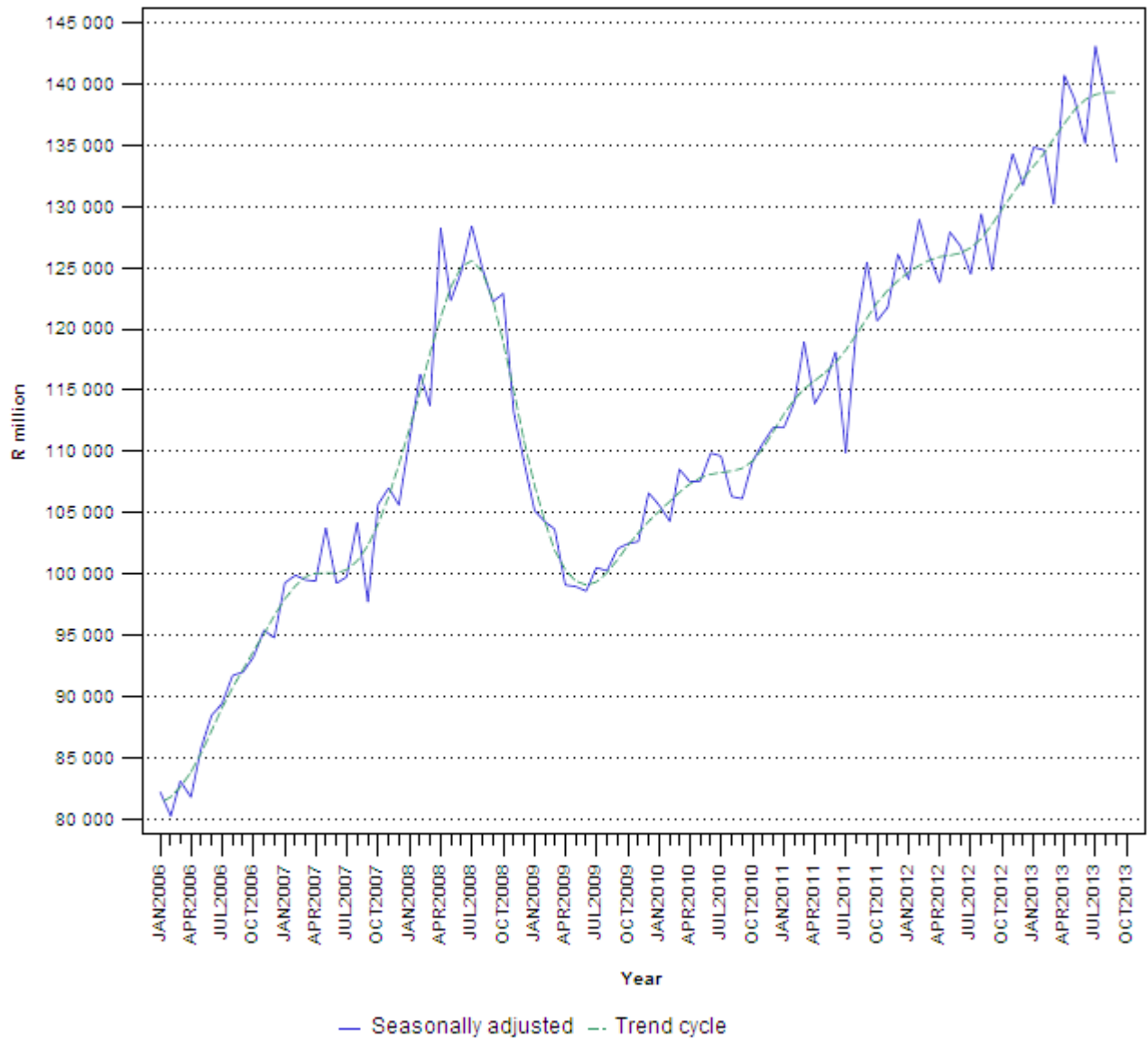
Seasonally adjusted sales of manufactured products (at current prices) for the third quarter of 2013 increased by 0,2% (R721 million) compared with the previous quarter. Six of the ten manufacturing divisions reported positive growth rates over this period.

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were petroleum, chemical products, rubber and plastic products (3,2% or R3 250 million); wood and wood products, paper, publishing and printing (10,6% or R3 144 million); and basic iron and steel, non-ferrous metal products, metal products and machinery (2,4% or R2 116 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 April to June 2013	Seasonally adjusted sales July to September 2013	% change between April to June 2013 and July to September 2013	Difference in seasonally adjusted sales of manufacturing divisions between April to June 2013 and July to September 2013
	R'000	R'000	%	R'000
Food and beverages	86 847 115	87 533 636	0,8	686 521
-Food and food products	63 493 126	63 136 955	-0,6	-356 171
-Beverages	23 353 989	24 396 680	4,5	1 042 691
Textiles, clothing, leather and footwear	10 988 344	10 850 771	-1,3	-137 573
-Textiles	4 173 269	4 024 014	-3,6	-149 255
-Wearing apparel	4 320 310	4 231 042	-2,1	-89 268
-Leather and leather products	1 536 480	1 641 736	6,9	105 256
-Footwear	958 285	953 980	-0,4	-4 305
Wood and wood products, paper, publishing and printing	29 755 067	32 899 005	10,6	3 143 938
-Wood and products of wood	6 242 275	6 588 088	5,5	345 813
-Paper and paper products	13 941 727	14 800 568	6,2	858 841
-Publishing and printing	9 571 064	11 510 350	20,3	1 939 286
Petroleum, chemical products, rubber and plastic products	102 659 680	105 909 757	3,2	3 250 077
-Coke, petroleum products and nuclear fuel	42 420 755	45 603 226	7,5	3 182 471
-Basic chemicals	21 760 652	21 535 702	-1,0	-224 950
-Other chemical products	21 850 301	22 418 306	2,6	568 005
-Rubber products	4 339 421	3 635 004	-16,2	-704 417
-Plastic products	12 288 551	12 717 521	3,5	428 970
Glass and non-metallic mineral products	13 420 710	12 994 941	-3,2	-425 769
-Glass and glass products	2 385 499	2 337 041	-2,0	-48 458
-Non-metallic mineral products	11 035 212	10 657 899	-3,4	-377 313
Basic iron and steel, non-ferrous metal products, metal products and machinery	89 967 149	92 083 046	2,4	2 115 897
-Basic iron and steel products	25 236 486	27 478 697	8,9	2 242 211
-Basic precious, non-ferrous metal products	18 383 583	18 776 912	2,1	393 329
-Fabricated metal products	23 103 369	23 092 683	0,0	-10 686
-Machinery and equipment	23 243 709	22 734 755	-2,2	-508 954
Electrical machinery	11 613 014	12 046 423	3,7	433 409
Radio, television and communication apparatus and professional equipment	4 585 299	4 556 405	-0,6	-28 894
-Radio, television and communication apparatus	2 300 943	2 316 540	0,7	15 597
-Professional equipment	2 284 355	2 239 866	-1,9	-44 489
Motor vehicles, parts and accessories and other transport equipment	51 058 166	42 467 174	-16,8	-8 590 992
-Motor vehicles, trailers, parts and accessories	46 291 302	38 065 796	-17,8	-8 225 506
-Other transport equipment	4 766 864	4 401 378	-7,7	-365 486
Furniture and other manufacturing division	13 520 935	13 795 298	2,0	274 363
-Furniture	3 284 778	3 438 027	4,7	153 249
-Other manufacturing groups	10 236 156	10 357 269	1,2	121 113
Total	414 415 478	415 136 455	0,2	720 977

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

1/ Preliminary.

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

2/

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

2/ The annual percentage change is the change in the index of the physical volume of manufacturing production of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

Table 3 – Seasonally adjusted index of the total physical volume of manufacturing production: 2007 – 2013

Base: 2010=100

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

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		
			September 2012	1/ August 2013	1/ September 2013	September 2012	August 2013	September 2013
Food and beverages	22,1	104,4	106,8	111,6	112,2	101,5	106,9	106,7
-Meat, fish, fruit, etc.	4,4	106,4	109,1	110,3	112,2	106,3	107,0	109,4
-Dairy products	2,2	108,8	109,4	103,6	107,1	105,2	103,9	103,1
-Grain mill products	2,7	105,1	110,8	108,3	109,4	105,2	104,1	104,0
-Other food products	6,4	97,4	101,1	123,7	114,2	92,0	106,2	104,3
-Beverages	6,4	108,0	108,4	104,6	113,3	104,7	109,8	109,7
Textiles, clothing, leather and footwear	3,5	95,7	99,9	99,8	98,3	95,8	97,0	94,5
-Textiles	0,7	87,1	86,9	81,3	82,9	86,1	81,6	82,2
-Other textile products	0,4	96,4	95,6	96,7	80,7	94,4	94,5	79,9
-Knitted, crocheted articles	0,1	71,5	63,0	59,8	67,1	67,7	66,3	72,2
-Wearing apparel	1,6	98,7	106,0	103,6	104,8	99,8	100,1	99,0
-Leather and leather products	0,2	107,2	101,2	118,2	120,1	106,4	125,2	125,8
-Footwear	0,5	95,8	107,6	113,7	108,9	97,4	102,6	98,9
Wood and wood products, paper, publishing and printing	9,3	103,9	111,0	115,1	116,8	103,9	112,5	109,2
-Sawmilling and planing of wood	0,8	106,8	105,9	115,7	112,6	102,9	110,2	109,5
-Products of wood	1,7	100,3	100,1	109,2	106,6	94,1	103,9	100,5
-Paper and paper products	3,2	98,6	103,9	105,1	114,2	96,6	104,6	106,3
-Publishing	1,4	115,4	128,8	134,1	156,8	120,4	138,5	146,0
-Printing, recorded media	2,2	105,6	119,7	121,1	103,3	111,2	114,0	95,6
Petroleum, chemical products, rubber and plastic products	25,1	107,2	109,6	111,5	105,2	109,4	108,8	105,0
-Coke, petroleum products and nuclear fuel	8,0	104,1	102,9	109,8	100,5	110,4	103,3	107,5
-Basic chemicals	5,8	106,9	107,2	110,7	94,2	105,6	109,3	93,0
-Other chemical products	7,4	109,1	116,0	117,1	118,6	110,8	116,2	113,5
-Rubber products	1,2	116,4	120,3	100,8	99,8	116,4	108,4	96,7
-Plastic products	2,7	107,7	112,3	107,5	108,3	107,7	104,2	104,0
Glass and non-metallic mineral products	4,9	103,8	103,1	116,1	107,6	97,5	108,2	102,3
-Glass and glass products	0,8	104,1	120,8	117,2	109,4	110,3	113,7	99,7
-Non-metallic mineral products	4,1	103,7	99,7	115,9	107,2	95,0	107,2	102,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	104,3	111,3	107,2	101,3	107,8	104,4
-Basic iron and steel products	4,4	92,2	103,0	96,8	97,4	102,7	98,5	97,3
-Non-ferrous metal products	3,5	97,3	97,8	114,2	107,7	96,7	109,7	106,7
-Structural metal products	1,9	98,1	94,5	94,0	88,9	90,6	86,6	85,2
-Other fabricated metal products	3,8	113,1	112,4	133,2	127,5	110,0	125,3	125,1
-General purpose machinery	2,3	109,8	114,6	99,3	99,0	107,6	97,2	93,2
-Special purpose machinery	3,5	112,0	101,8	119,6	111,9	96,1	117,2	106,3
-Household appliances	0,9	113,7	103,3	114,5	108,0	100,2	106,3	105,0
Electrical machinery	2,4	101,3	105,1	111,0	111,8	95,5	105,4	102,4
Radio, television and communication apparatus and professional equipment	1,3	121,7	135,9	135,8	122,8	126,1	126,9	113,8
-Radio, television and communication apparatus	0,8	130,1	143,2	164,3	133,1	136,4	150,5	126,6
-Professional equipment	0,5	109,8	125,6	95,6	108,3	111,5	93,5	95,7
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	117,6	93,6	59,1	116,0	86,5	58,2
-Motor vehicles	3,2	124,2	141,1	77,9	42,5	141,0	71,0	42,3
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	109,1	122,7	118,6	105,3	115,2	114,7
-Parts and accessories	2,9	99,9	100,3	103,5	54,2	95,6	96,3	51,9
-Other transport equipment	1,2	99,3	100,2	96,6	84,4	103,2	89,4	86,8
Furniture and other manufacturing division	3,2	103,6	99,1	96,6	86,9	100,8	92,5	87,9
-Furniture	0,9	111,5	117,1	116,4	116,9	110,1	112,1	110,2
-Other manufacturing groups	2,3	100,3	91,6	88,3	74,3	96,8	84,3	78,6
Total	100,0	105,2	107,9	110,1	104,3	104,6	106,0	101,0

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		
			September 2012	1/ September 2013	% change between September 2012 and September 2013	August 2013	September 2013	% change between August and September 2013
Food and beverages	22,1	104,4	106,8	112,2	5,1	106,9	106,7	-0,2
-Meat, fish, fruit, etc.	4,4	106,4	109,1	112,2	2,8	107,0	109,4	2,2
-Dairy products	2,2	108,8	109,4	107,1	-2,1	103,9	103,1	-0,8
-Grain mill products	2,7	105,1	110,8	109,4	-1,3	104,1	104,0	-0,1
-Other food products	6,4	97,4	101,1	114,2	13,0	106,2	104,3	-1,8
-Beverages	6,4	108,0	108,4	113,3	4,5	109,8	109,7	-0,1
Textiles, clothing, leather and footwear	3,5	95,7	99,9	98,3	-1,6	97,0	94,5	-2,6
-Textiles	0,7	87,1	86,9	82,9	-4,6	81,6	82,2	0,7
-Other textile products	0,4	96,4	95,6	80,7	-15,6	94,5	79,9	-15,4
-Knitted, crocheted articles	0,1	71,5	63,0	67,1	6,5	66,3	72,2	8,9
-Wearing apparel	1,6	98,7	106,0	104,8	-1,1	100,1	99,0	-1,1
-Leather and leather products	0,2	107,2	101,2	120,1	18,7	125,2	125,8	0,5
-Footwear	0,5	95,8	107,6	108,9	1,2	102,6	98,9	-3,6
Wood and wood products, paper, publishing and printing	9,3	103,9	111,0	116,8	5,2	112,5	109,2	-2,9
-Sawmilling and planing of wood	0,8	106,8	105,9	112,6	6,3	110,2	109,5	-0,6
-Products of wood	1,7	100,3	100,1	106,6	6,5	103,9	100,5	-3,3
-Paper and paper products	3,2	98,6	103,9	114,2	9,9	104,6	106,3	1,6
-Publishing	1,4	115,4	128,8	156,8	21,7	138,5	146,0	5,4
-Printing, recorded media	2,2	105,6	119,7	103,3	-13,7	114,0	95,6	-16,1
Petroleum, chemical products, rubber and plastic products	25,1	107,2	109,6	105,2	-4,0	108,8	105,0	-3,5
-Coke, petroleum products and nuclear fuel	8,0	104,1	102,9	100,5	-2,3	103,3	107,5	4,1
-Basic chemicals	5,8	106,9	107,2	94,2	-12,1	109,3	93,0	-14,9
-Other chemical products	7,4	109,1	116,0	118,6	2,2	116,2	113,5	-2,3
-Rubber products	1,2	116,4	120,3	99,8	-17,0	108,4	96,7	-10,8
-Plastic products	2,7	107,7	112,3	108,3	-3,6	104,2	104,0	-0,2
Glass and non-metallic mineral products	4,9	103,8	103,1	107,6	4,4	108,2	102,3	-5,5
-Glass and glass products	0,8	104,1	120,8	109,4	-9,4	113,7	99,7	-12,3
-Non-metallic mineral products	4,1	103,7	99,7	107,2	7,5	107,2	102,8	-4,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	104,3	107,2	2,8	107,8	104,4	-3,2
-Basic iron and steel products	4,4	92,2	103,0	97,4	-5,4	98,5	97,3	-1,2
-Non-ferrous metal products	3,5	97,3	97,8	107,7	10,1	109,7	106,7	-2,7
-Structural metal products	1,9	98,1	94,5	88,9	-5,9	86,6	85,2	-1,6
-Other fabricated metal products	3,8	113,1	112,4	127,5	13,4	125,3	125,1	-0,2
-General purpose machinery	2,3	109,8	114,6	99,0	-13,6	97,2	93,2	-4,1
-Special purpose machinery	3,5	112,0	101,8	111,9	9,9	117,2	106,3	-9,3
-Household appliances	0,9	113,7	103,3	108,0	4,5	106,3	105,0	-1,2
Electrical machinery	2,4	101,3	105,1	111,8	6,4	105,4	102,4	-2,8
Radio, television and communication apparatus and professional equipment	1,3	121,7	135,9	122,8	-9,6	126,9	113,8	-10,3
-Radio, television and communication apparatus	0,8	130,1	143,2	133,1	-7,1	150,5	126,6	-15,9
-Professional equipment	0,5	109,8	125,6	108,3	-13,8	93,5	95,7	2,4
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	117,6	59,1	-49,7	86,5	58,2	-32,7
-Motor vehicles	3,2	124,2	141,1	42,5	-69,9	71,0	42,3	-40,4
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	109,1	118,6	8,7	115,2	114,7	-0,4
-Parts and accessories	2,9	99,9	100,3	54,2	-46,0	96,3	51,9	-46,1
-Other transport equipment	1,2	99,3	100,2	84,4	-15,8	89,4	86,8	-2,9
Furniture and other manufacturing division	3,2	103,6	99,1	86,9	-12,3	92,5	87,9	-5,0
-Furniture	0,9	111,5	117,1	116,9	-0,2	112,1	110,2	-1,7
-Other manufacturing groups	2,3	100,3	91,6	74,3	-18,9	84,3	78,6	-6,8
Total	100,0	105,2	107,9	104,3	-3,3	106,0	101,0	-4,7

1/ Preliminary.

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

Month	2007	2008	2009	2010	2011	2012	2013
Jan	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	1/ 143 961 443
Aug	107 658 150	129 126 848	103 007 029	108 663 903	122 688 235	132 094 313	1/ 141 546 981
Sep	102 989 748	128 633 004	107 188 812	111 184 472	130 818 755	129 532 600	1/ 138 172 701
Oct	116 363 030	135 163 841	112 486 658	119 561 318	131 429 847	141 820 125	
Nov	118 990 834	125 995 637	114 583 579	124 219 561	136 700 911	150 484 487	
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	7,2
Sep	6,1	24,9	-16,7	3,7	17,7	-1,0	6,7
Oct	13,5	16,2	-16,8	6,3	9,9	7,9	
Nov	12,1	5,9	-9,1	8,4	10,0	10,1	
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	99 315 209	111 041 184	105 212 886	105 639 629	111 956 515	124 033 265	134 780 329
Feb	99 940 061	116 301 203	104 275 058	104 325 942	114 049 529	128 903 982	134 552 390
Mar	99 561 518	113 750 048	103 684 312	108 568 752	118 943 091	125 944 523	130 139 486
Apr	99 456 796	128 223 847	99 141 979	107 544 307	113 899 190	123 773 702	140 631 449
May	103 788 556	122 311 901	99 028 251	107 593 494	115 406 786	127 884 288	138 683 079
Jun	99 283 820	124 696 969	98 640 638	109 882 813	118 114 265	126 724 859	135 100 950
Jul	99 800 003	128 377 099	100 566 873	109 643 942	109 887 909	124 462 505	143 002 648
Aug	104 228 044	124 937 774	100 289 118	106 345 174	120 108 798	129 331 392	138 578 641
Sep	97 766 552	122 203 179	102 097 229	106 162 862	125 436 247	124 789 065	133 555 166
Oct	105 706 143	122 871 050	102 501 087	109 195 790	120 655 381	130 567 065	
Nov	107 042 218	113 225 891	102 685 377	110 705 500	121 755 557	134 244 178	
Dec	105 655 707	109 209 935	106 640 467	111 972 620	126 071 233	131 685 622	

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		
		September 2012	1/ August 2013	1/ September 2013	September 2012	August 2013	September 2013
Food and beverages	326 946 141	27 893 180	29 074 983	30 012 255	26 947 009	28 944 541	29 021 574
-Meat, fish, fruit, etc.	80 822 453	7 048 654	7 395 396	7 594 973	6 761 615	7 217 442	7 275 968
-Dairy products	28 312 329	2 285 895	2 417 261	2 483 457	2 229 535	2 431 302	2 424 299
-Grain mill products	56 100 754	4 935 676	5 073 800	5 174 296	4 725 796	4 936 825	4 957 111
-Other food products	71 712 263	6 107 210	6 611 627	6 442 234	5 895 306	6 298 896	6 232 507
-Beverages	89 998 342	7 515 745	7 576 899	8 317 295	7 334 757	8 060 076	8 131 689
Textiles, clothing, leather and footwear	40 404 981	3 353 784	3 694 863	3 531 298	3 274 761	3 634 171	3 454 565
-Textiles	5 235 984	430 993	478 561	476 615	426 932	471 057	471 865
-Other textile products	10 153 318	823 231	886 446	756 737	823 280	882 783	757 681
-Knitted, crocheted articles	1 753 481	125 045	139 805	133 643	137 410	151 517	147 325
-Wearing apparel	14 143 137	1 226 949	1 322 073	1 302 843	1 168 683	1 263 499	1 244 136
-Leather and leather products	5 510 187	425 836	538 313	530 728	422 245	549 084	527 412
-Footwear	3 608 874	321 730	329 665	330 732	296 211	316 231	306 146
Wood and wood products, paper, publishing and printing	117 712 985	10 485 087	11 546 344	11 893 141	9 752 457	11 234 657	11 084 431
-Sawmilling and planing of wood	8 463 057	686 995	888 286	808 714	651 098	827 791	768 710
-Products of wood	15 757 813	1 357 605	1 505 049	1 460 964	1 273 432	1 429 502	1 376 411
-Paper and paper products	53 172 649	4 822 879	5 065 437	5 504 122	4 346 400	4 951 295	4 975 463
-Publishing	18 134 518	1 651 339	1 866 660	2 223 423	1 603 784	1 899 686	2 155 098
-Printing, recorded media	22 184 948	1 966 269	2 220 912	1 895 918	1 877 741	2 126 383	1 808 749
Petroleum, chemical products, rubber and plastic products	376 486 756	31 395 739	35 665 585	35 582 388	30 637 777	34 795 305	34 877 109
-Coke, petroleum products and nuclear fuel	158 106 980	12 288 532	15 824 541	14 798 171	12 592 520	15 020 106	15 234 531
-Basic chemicals	76 438 686	6 832 507	6 807 245	7 508 448	6 403 596	6 966 648	7 059 635
-Other chemical products	79 423 187	6 922 311	7 630 217	7 858 660	6 470 628	7 554 824	7 346 599
-Rubber products	15 263 719	1 237 886	1 173 236	1 109 509	1 256 422	1 151 637	1 131 442
-Plastic products	47 254 184	4 114 503	4 230 346	4 307 600	3 914 611	4 102 090	4 104 903
Glass and non-metallic mineral products	47 180 190	4 022 822	4 585 587	4 542 639	3 665 257	4 281 937	4 148 269
-Glass and glass products	8 121 291	853 515	777 409	842 574	754 539	769 499	743 515
-Non-metallic mineral products	39 058 899	3 169 307	3 808 178	3 700 065	2 910 718	3 512 438	3 404 753
Basic iron and steel, non-ferrous metal products, metal products and machinery	332 851 058	27 179 535	31 052 964	31 230 816	26 248 182	30 553 127	30 376 474
-Basic iron and steel products	96 706 133	7 583 328	8 546 174	9 225 639	7 621 540	8 756 913	9 362 270
-Non-ferrous metal products	62 624 343	5 203 901	6 349 013	6 371 841	4 926 483	6 372 341	6 077 120
-Structural metal products	32 286 631	2 724 083	2 726 476	2 609 486	2 593 210	2 517 209	2 480 566
-Other fabricated metal products	57 443 513	4 772 201	5 650 220	5 362 047	4 628 215	5 260 605	5 222 003
-General purpose machinery	32 972 813	2 900 861	2 737 370	2 812 059	2 705 785	2 686 189	2 630 322
-Special purpose machinery	40 218 784	3 167 125	4 095 455	3 902 887	2 979 802	4 042 995	3 696 473
-Household appliances	10 598 841	828 036	948 256	946 857	793 148	916 875	907 720
Electrical machinery	42 562 562	3 669 792	4 359 961	4 203 227	3 394 776	4 151 918	3 916 315
Radio, television and communication apparatus and professional equipment	17 461 452	1 594 205	1 712 292	1 667 345	1 449 199	1 522 507	1 521 289
-Radio, television and communication apparatus	8 203 450	703 449	962 656	823 406	656 582	804 269	772 024
-Professional equipment	9 258 002	890 756	749 636	843 939	792 616	718 238	749 265
Motor vehicles, parts and accessories and other transport equipment	178 804 260	15 682 214	15 208 474	10 832 931	15 216 856	14 996 178	10 510 633
-Motor vehicles	93 885 515	8 488 346	7 922 743	5 224 730	8 187 030	8 016 256	5 033 146
-Bodies for motor vehicles, trailers and semi-trailers	7 327 565	612 678	687 114	756 585	572 048	651 310	704 897
-Parts and accessories	59 193 237	5 024 362	5 058 148	3 452 222	4 858 348	4 895 454	3 337 623
-Other transport equipment	18 397 943	1 556 828	1 540 469	1 399 394	1 599 430	1 433 158	1 434 967
Furniture and other manufacturing division	52 666 187	4 256 242	4 645 928	4 676 661	4 202 791	4 464 301	4 644 507
-Furniture	13 203 900	1 116 198	1 174 092	1 174 294	1 070 744	1 150 410	1 129 948
-Other manufacturing groups	39 462 287	3 140 044	3 471 836	3 502 367	3 132 046	3 313 890	3 514 559
Total	1 533 076 572	129 532 600	141 546 981	138 172 701	124 789 065	138 578 641	133 555 166

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		
		September 2012	1/ September 2013	% change between September 2012 and September 2013	August 2013	September 2013	% change between August and September 2013
Food and beverages	326 946 141	27 893 180	30 012 255	7,6	28 944 541	29 021 574	0,3
-Meat, fish, fruit, etc.	80 822 453	7 048 654	7 594 973	7,8	7 217 442	7 275 968	0,8
-Dairy products	28 312 329	2 285 895	2 483 457	8,6	2 431 302	2 424 299	-0,3
-Grain mill products	56 100 754	4 935 676	5 174 296	4,8	4 936 825	4 957 111	0,4
-Other food products	71 712 263	6 107 210	6 442 234	5,5	6 298 896	6 232 507	-1,1
-Beverages	89 998 342	7 515 745	8 317 295	10,7	8 060 076	8 131 689	0,9
Textiles, clothing, leather and footwear	40 404 981	3 353 784	3 531 298	5,3	3 634 171	3 454 565	-4,9
-Textiles	5 235 984	430 993	476 615	10,6	471 057	471 865	0,2
-Other textile products	10 153 318	823 231	756 737	-8,1	882 783	757 681	-14,2
-Knitted, crocheted articles	1 753 481	125 045	133 643	6,9	151 517	147 325	-2,8
-Wearing apparel	14 143 137	1 226 949	1 302 843	6,2	1 263 499	1 244 136	-1,5
-Leather and leather products	5 510 187	425 836	530 728	24,6	549 084	527 412	-3,9
-Footwear	3 608 874	321 730	330 732	2,8	316 231	306 146	-3,2
Wood and wood products, paper, publishing and printing	117 712 985	10 485 087	11 893 141	13,4	11 234 657	11 084 431	-1,3
-Sawmilling and planing of wood	8 463 057	686 995	808 714	17,7	827 791	768 710	-7,1
-Products of wood	15 757 813	1 357 605	1 460 964	7,6	1 429 502	1 376 411	-3,7
-Paper and paper products	53 172 649	4 822 879	5 504 122	14,1	4 951 295	4 975 463	0,5
-Publishing	18 134 518	1 651 339	2 223 423	34,6	1 899 686	2 155 098	13,4
-Printing, recorded media	22 184 948	1 966 269	1 895 918	-3,6	2 126 383	1 808 749	-14,9
Petroleum, chemical products, rubber and plastic products	376 486 756	31 395 739	35 582 388	13,3	34 795 305	34 877 109	0,2
-Coke, petroleum products and nuclear fuel	158 106 980	12 288 532	14 798 171	20,4	15 020 106	15 234 531	1,4
-Basic chemicals	76 438 686	6 832 507	7 508 448	9,9	6 966 648	7 059 635	1,3
-Other chemical products	79 423 187	6 922 311	7 858 660	13,5	7 554 824	7 346 599	-2,8
-Rubber products	15 263 719	1 237 886	1 109 509	-10,4	1 151 637	1 131 442	-1,8
-Plastic products	47 254 184	4 114 503	4 307 600	4,7	4 102 090	4 104 903	0,1
Glass and non-metallic mineral products	47 180 190	4 022 822	4 542 639	12,9	4 281 937	4 148 269	-3,1
-Glass and glass products	8 121 291	853 515	842 574	-1,3	769 499	743 515	-3,4
-Non-metallic mineral products	39 058 899	3 169 307	3 700 065	16,7	3 512 438	3 404 753	-3,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	332 851 058	27 179 535	31 230 816	14,9	30 553 127	30 376 474	-0,6
-Basic iron and steel products	96 706 133	7 583 328	9 225 639	21,7	8 756 913	9 362 270	6,9
-Non-ferrous metal products	62 624 343	5 203 901	6 371 841	22,4	6 372 341	6 077 120	-4,6
-Structural metal products	32 286 631	2 724 083	2 609 486	-4,2	2 517 209	2 480 566	-1,5
-Other fabricated metal products	57 443 513	4 772 201	5 362 047	12,4	5 260 605	5 222 003	-0,7
-General purpose machinery	32 972 813	2 900 861	2 812 059	-3,1	2 686 189	2 630 322	-2,1
-Special purpose machinery	40 218 784	3 167 125	3 902 887	23,2	4 042 995	3 696 473	-8,6
-Household appliances	10 598 841	828 036	946 857	14,3	916 875	907 720	-1,0
Electrical machinery	42 562 562	3 669 792	4 203 227	14,5	4 151 918	3 916 315	-5,7
Radio, television and communication apparatus and professional equipment	17 461 452	1 594 205	1 667 345	4,6	1 522 507	1 521 289	-0,1
-Radio, television and communication apparatus	8 203 450	703 449	823 406	17,1	804 269	772 024	-4,0
-Professional equipment	9 258 002	890 756	843 939	-5,3	718 238	749 265	4,3
Motor vehicles, parts and accessories and other transport equipment	178 804 260	15 682 214	10 832 931	-30,9	14 996 178	10 510 633	-29,9
-Motor vehicles	93 885 515	8 488 346	5 224 730	-38,4	8 016 256	5 033 146	-37,2
-Bodies for motor vehicles, trailers and semi-trailers	7 327 565	612 678	756 585	23,5	651 310	704 897	8,2
-Parts and accessories	59 193 237	5 024 362	3 452 222	-31,3	4 895 454	3 337 623	-31,8
-Other transport equipment	18 397 943	1 556 828	1 399 394	-10,1	1 433 158	1 434 967	0,1
Furniture and other manufacturing division	52 666 187	4 256 242	4 676 661	9,9	4 464 301	4 644 507	4,0
-Furniture	13 203 900	1 116 198	1 174 294	5,2	1 150 410	1 129 948	-1,8
-Other manufacturing groups	39 462 287	3 140 044	3 502 367	11,5	3 313 890	3 514 559	6,1
Total	1 533 076 572	129 532 600	138 172 701	6,7	138 578 641	133 555 166	-3,6

1/ Preliminary.

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

Manufacturing divisions and major groups	Weights 2010	Production indices (base: 2010=100)			Value of sales (R'000)		
		Jul. to Sep. 2012	Jul. to Sep. 2013	% change between Jul. to Sep. 2012 and Jul. to Sep. 2013	Jul. to Sep. 2012	Jul. to Sep. 2013	% change between Jul. to Sep. 2012 and Jul. to Sep. 2013
Food and beverages	22,1	106,5	110,8	4,0	81 878 138	87 406 381	6,8
-Meat, fish, fruit, etc.	4,4	108,0	111,6	3,3	20 725 762	22 475 637	8,4
-Dairy products	2,2	107,5	104,0	-3,3	7 006 379	7 390 040	5,5
-Grain mill products	2,7	110,2	109,9	-0,3	14 571 721	15 489 096	6,3
-Other food products	6,4	107,5	118,1	9,9	18 349 577	19 160 239	4,4
-Beverages	6,4	102,6	105,7	3,0	21 224 699	22 891 369	7,9
Textiles, clothing, leather and footwear	3,5	100,0	100,1	0,1	10 194 875	11 036 737	8,3
-Textiles	0,7	88,8	84,3	-5,1	1 292 284	1 469 494	13,7
-Other textile products	0,4	96,8	92,3	-4,6	2 531 688	2 596 813	2,6
-Knitted, crocheted articles	0,1	66,0	62,4	-5,5	400 387	403 759	0,8
-Wearing apparel	1,6	105,5	104,0	-1,4	3 724 081	3 939 906	5,8
-Leather and leather products	0,2	101,1	121,6	20,3	1 327 055	1 632 275	23,0
-Footwear	0,5	105,5	112,3	6,4	919 380	994 490	8,2
Wood and wood products, paper, publishing and printing	9,3	105,8	112,4	6,2	29 941 865	33 729 497	12,6
-Sawmilling and planing of wood	0,8	110,3	114,9	4,2	2 189 082	2 489 204	13,7
-Products of wood	1,7	104,2	107,2	2,9	4 089 034	4 423 349	8,2
-Paper and paper products	3,2	98,3	106,4	8,2	13 533 660	15 204 677	12,3
-Publishing	1,4	112,2	136,0	21,2	4 363 120	5 669 445	29,9
-Printing, recorded media	2,2	112,1	108,5	-3,2	5 766 969	5 942 822	3,0
Petroleum, chemical products, rubber and plastic products	25,1	109,6	110,6	0,9	93 597 042	108 285 266	15,7
-Coke, petroleum products and nuclear fuel	8,0	107,4	106,6	-0,7	38 288 782	47 015 416	22,8
-Basic chemicals	5,8	105,2	107,5	2,2	18 852 305	21 569 015	14,4
-Other chemical products	7,4	114,0	117,6	3,2	20 486 901	22 943 778	12,0
-Rubber products	1,2	115,7	107,7	-6,9	3 817 825	3 709 280	-2,8
-Plastic products	2,7	110,5	110,7	0,2	12 151 229	13 047 777	7,4
Glass and non-metallic mineral products	4,9	105,8	112,8	6,6	12 260 848	13 973 813	14,0
-Glass and glass products	0,8	112,4	114,8	2,1	2 241 043	2 448 582	9,3
-Non-metallic mineral products	4,1	104,6	112,4	7,5	10 019 805	11 525 231	15,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	105,0	109,9	4,7	82 569 219	93 589 101	13,3
-Basic iron and steel products	4,4	92,3	98,8	7,0	22 737 325	26 783 531	17,8
-Non-ferrous metal products	3,5	97,1	112,2	15,6	15 507 656	19 019 563	22,6
-Structural metal products	1,9	98,7	89,2	-9,6	8 306 258	7 790 446	-6,2
-Other fabricated metal products	3,8	117,9	128,5	9,0	14 977 923	16 407 114	9,5
-General purpose machinery	2,3	113,0	100,9	-10,7	8 458 355	8 398 561	-0,7
-Special purpose machinery	3,5	109,9	117,3	6,7	9 870 700	12 360 991	25,2
-Household appliances	0,9	114,6	113,5	-1,0	2 711 002	2 828 895	4,3
Electrical machinery	2,4	107,1	111,0	3,6	11 152 635	12 684 417	13,7
Radio, television and communication apparatus and professional equipment	1,3	131,2	127,9	-2,5	4 761 732	4 962 745	4,2
-Radio, television and communication apparatus	0,8	142,0	144,9	2,0	2 271 274	2 577 088	13,5
-Professional equipment	0,5	115,9	103,9	-10,4	2 490 458	2 385 657	-4,2
Motor vehicles, parts and accessories and other transport equipment	7,9	119,8	93,7	-21,8	47 415 827	44 005 315	-7,2
-Motor vehicles	3,2	142,4	91,4	-35,8	25 170 205	22 835 185	-9,3
-Bodies for motor vehicles, trailers and semi-trailers	0,6	113,7	121,3	6,7	1 893 740	2 196 474	16,0
-Parts and accessories	2,9	101,3	90,7	-10,5	15 390 560	14 471 137	-6,0
-Other transport equipment	1,2	106,9	92,1	-13,8	4 961 322	4 502 519	-9,2
Furniture and other manufacturing division	3,2	104,0	94,5	-9,1	13 317 577	14 007 853	5,2
-Furniture	0,9	118,3	117,3	-0,8	3 424 428	3 549 127	3,6
-Other manufacturing groups	2,3	97,9	85,0	-13,2	9 893 149	10 458 726	5,7
Total	100,0	107,9	108,8	0,8	387 089 758	423 681 125	9,5

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 September 2013 was 89,2%. Improved collection rate for August 2013 was 92,0%.
- 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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