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Key figures for September 2014

Table A – Manufacturing production and sales

Estimates	September 2014	% change between September 2013 and September 2014	% change between July to September 2013 and July to September 2014	% change between January to September 2013 and January to September 2014
Physical volume of manufacturing production index (base: 2010=100)	112,2	8,0	-0,6	-0,3
Total estimated sales of manufactured products (R million)	161 368	15,0	7,6	8,9

Seasonally adjusted estimates	September 2014	% change between August and September 2014	% change between April to June 2014 and July to September 2014
Physical volume of manufacturing production index (base: 2010=100)	108,4	4,0	-1,3
Total value of sales of manufactured products (R million)	156 573	2,0	0,3

Manufacturing production increased by 8,0% in September 2014 compared with September 2013.

The 8,0% year-on-year increase in manufacturing production in September 2014 was mainly due to higher production in the motor vehicles, parts and accessories and other transport equipment division (121,6% and contributing 5,8 percentage points). In September 2013 production in the automotive sector was adversely affected by industrial action.

The food and beverages division (6,1% and contributing 1,6 percentage points) was also a large positive contributor to the year-on-year increase (see Table 4b).

Seasonally adjusted manufacturing production decreased by 1,3% in the third quarter of 2014 compared with the second quarter of 2014. Five of the ten manufacturing divisions reported negative growth rates over this period.

The largest negative contribution to the decrease of 1,3% was made by the basic iron and steel, non-ferrous metal products, metal products and machinery division (-6,1% and contributing -1,2 percentage points) (see Table B).

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

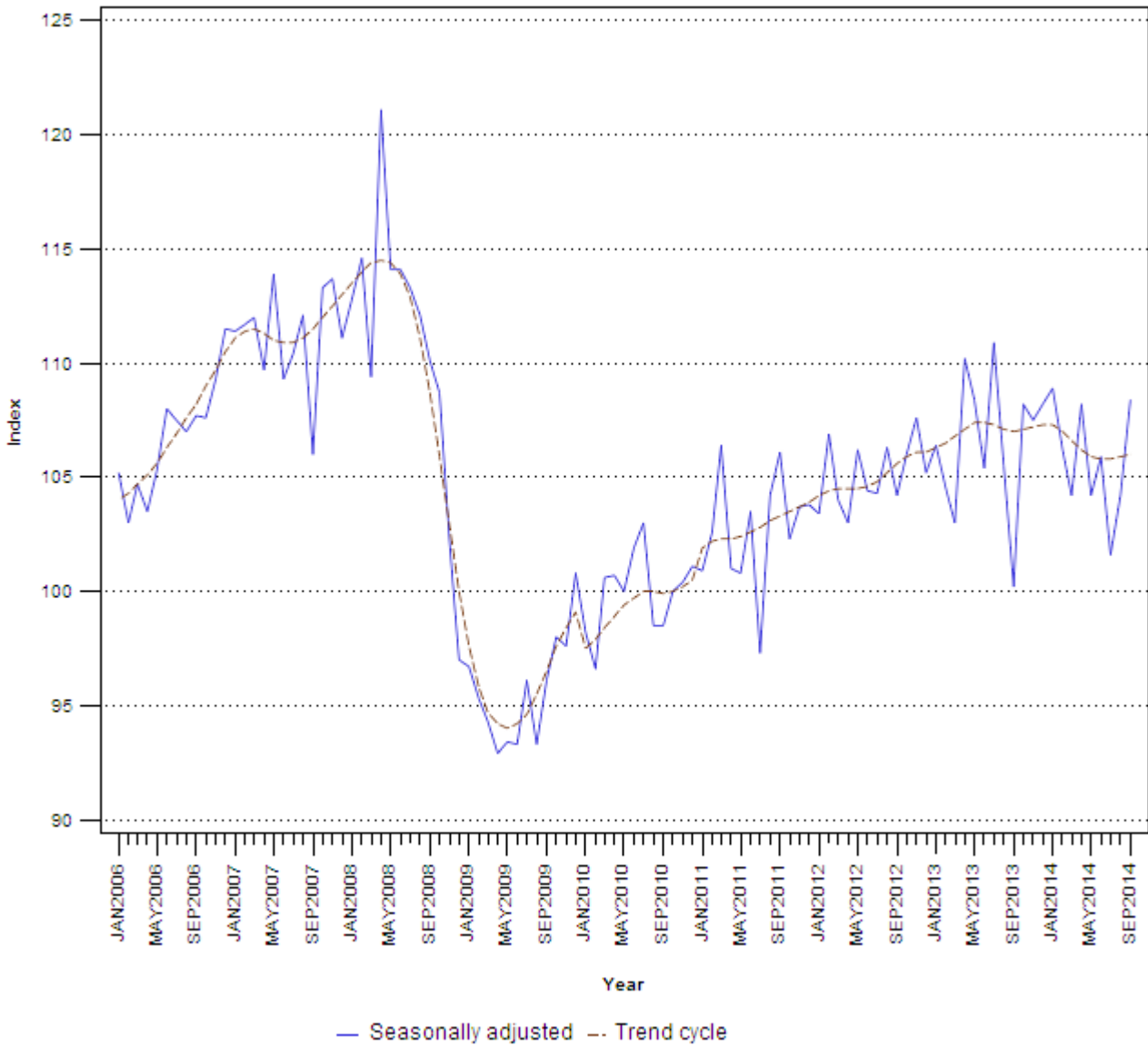
Base: 2010=100

Manufacturing divisions and major groups	Weights 2011	Average seasonally adjusted production index for April to June 2014	Average seasonally adjusted production index for July to September 2014	Quarterly % change of July to September 2014 compared with the preceding three months	Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/
Food and beverages	23,8	110,2	110,8	0,5	0,1
-Meat, fish, fruit, etc.	5,2	115,4	116,1	0,6	0,0
-Dairy products	2,3	104,7	107,2	2,4	0,1
-Grain mill products	2,8	108,1	103,8	-4,0	-0,1
-Other food products	7,1	105,8	106,4	0,6	0,0
-Beverages	6,4	113,7	115,8	1,8	0,1
Textiles, clothing, leather and footwear	2,9	92,4	96,1	4,0	0,1
-Textiles	1,2	85,3	85,6	0,4	0,0
-Wearing apparel	1,1	93,3	98,4	5,5	0,1
-Leather and leather products	0,2	122,6	118,6	-3,3	0,0
-Footwear	0,4	97,9	110,6	13,0	0,0
Wood and wood products, paper, publishing and printing	9,5	104,4	102,8	-1,5	-0,1
-Wood and products of wood	2,6	105,5	104,8	-0,7	0,0
-Paper and paper products	3,3	103,7	99,8	-3,8	-0,1
-Publishing and printing	3,6	104,2	104,0	-0,2	0,0
Petroleum, chemical products, rubber and plastic products	22,5	106,9	105,3	-1,5	-0,3
-Coke, petroleum products and nuclear fuel	6,3	104,6	93,0	-11,1	-0,7
-Basic chemicals	4,8	111,2	111,2	0,0	0,0
-Other chemical products	7,1	109,3	113,3	3,7	0,3
-Rubber products	1,2	98,2	100,2	2,0	0,0
-Plastic products	3,1	103,1	104,6	1,5	0,0
Glass and non-metallic mineral products	4,4	98,7	99,8	1,1	0,0
-Glass and glass products	0,9	85,9	87,7	2,1	0,0
-Non-metallic mineral products	3,5	102,0	102,8	0,8	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,4	105,0	98,6	-6,1	-1,2
-Basic iron and steel products	4,7	95,3	92,9	-2,5	-0,1
-Basic precious, non-ferrous metal products	3,5	109,9	98,3	-10,6	-0,4
-Fabricated metal products	6,1	111,4	99,9	-10,3	-0,7
-Machinery and equipment	6,1	103,3	101,8	-1,5	-0,1
Electrical machinery	2,4	104,4	96,3	-7,8	-0,2
Radio, television and communication apparatus and professional equipment	1,4	144,0	128,7	-10,6	-0,2
-Radio, television and communication apparatus	0,9	171,5	150,7	-12,1	-0,2
-Professional equipment	0,6	101,4	94,7	-6,6	0,0
Motor vehicles, parts and accessories and other transport equipment	8,6	104,9	109,0	3,9	0,3
-Motor vehicles	3,9	122,3	130,2	6,5	0,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	107,2	103,9	-3,1	0,0
-Parts and accessories	3,0	89,3	89,8	0,6	0,0
-Other transport equipment	1,2	87,7	91,5	4,3	0,0
Furniture and other manufacturing division	4,1	94,7	100,8	6,4	0,2
-Furniture	1,1	117,9	116,2	-1,4	0,0
-Other manufacturing groups	3,0	86,7	95,4	10,0	0,2
Total	100,0	106,1	104,7	-1,3	-1,3

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 – 2014

Base: 2010=100



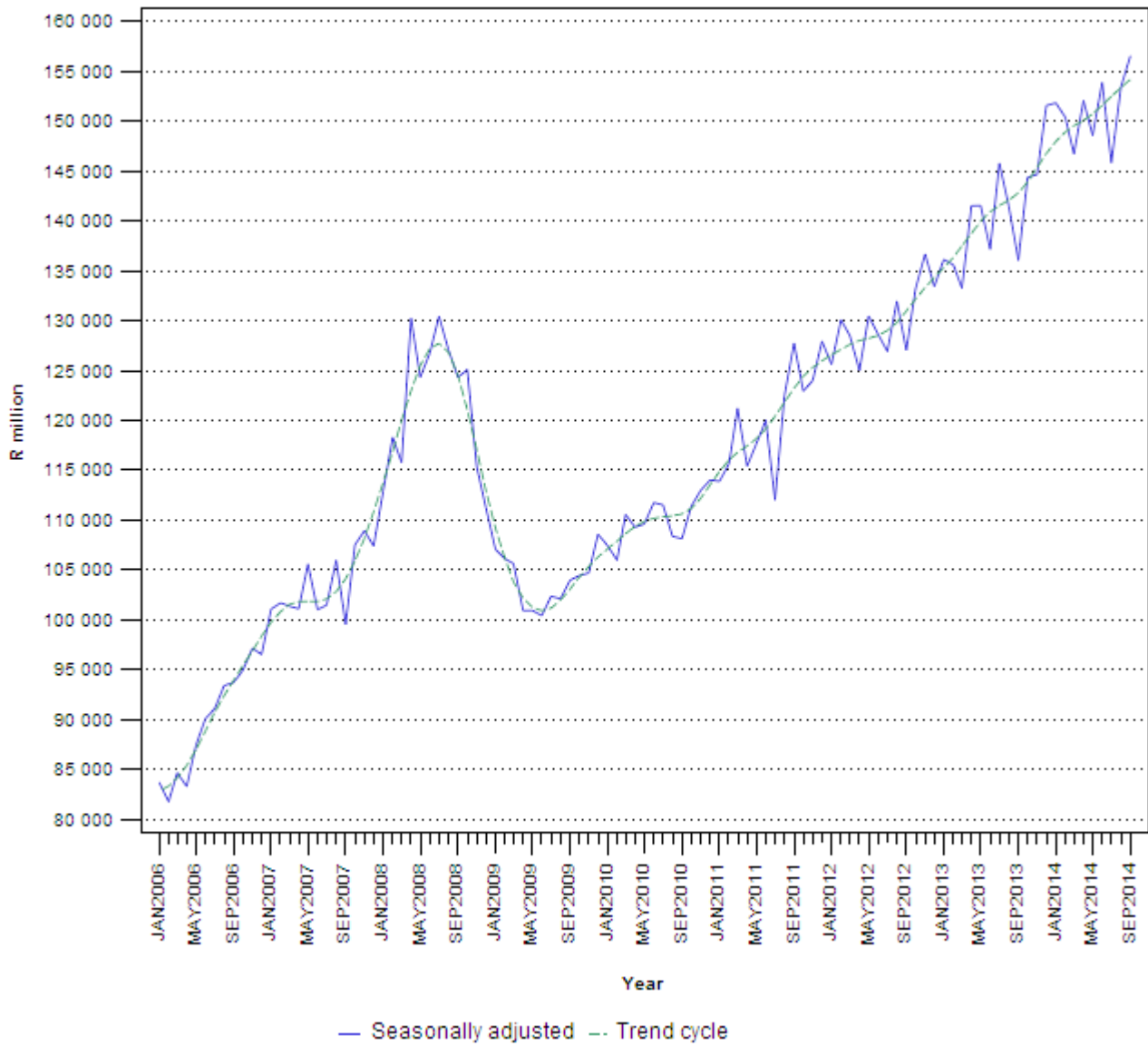
Seasonally adjusted sales of manufactured products (at current prices) increased by 0,3% (R1 303 million) in the third quarter of 2014 compared with the second quarter of 2014.

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were motor vehicles, parts and accessories and other transport equipment (5,2% or R2 769 million) and food and beverages (1,4% or R1 328 million). There was a large decrease in the basic iron and steel, non-ferrous metal products, metal products and machinery division (-2,6% or -R2 598 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 2014	Seasonally adjusted sales July to September 2014	% change between April to June 2014 and July to September 2014	Difference in seasonally adjusted sales of manufacturing divisions between April to June 2014 and July to September 2014
	R'000	R'000	%	R'000
Food and beverages	98 062 186	99 390 390	1,4	1 328 204
-Food and food products	71 332 114	71 842 801	0,7	510 687
-Beverages	26 730 072	27 547 590	3,1	817 518
Textiles, clothing, leather and footwear	11 984 055	12 401 058	3,5	417 003
-Textiles	4 648 982	4 677 733	0,6	28 751
-Wearing apparel	4 579 259	4 883 282	6,6	304 023
-Leather and leather products	1 680 270	1 570 195	-6,6	-110 075
-Footwear	1 075 543	1 269 848	18,1	194 305
Wood and wood products, paper, publishing and printing	33 573 532	33 885 021	0,9	311 489
-Wood and products of wood	7 314 105	7 151 423	-2,2	-162 682
-Paper and paper products	14 977 321	14 992 832	0,1	15 511
-Publishing and printing	11 282 106	11 740 765	4,1	458 659
Petroleum, chemical products, rubber and plastic products	110 009 501	109 353 994	-0,6	-655 507
-Coke, petroleum products and nuclear fuel	46 483 712	42 781 557	-8,0	-3 702 155
-Basic chemicals	22 513 041	23 700 321	5,3	1 187 280
-Other chemical products	24 031 674	25 400 825	5,7	1 369 151
-Rubber products	4 124 266	4 129 594	0,1	5 328
-Plastic products	12 856 809	13 341 699	3,8	484 890
Glass and non-metallic mineral products	14 233 904	14 058 114	-1,2	-175 790
-Glass and glass products	2 324 254	2 338 470	0,6	14 216
-Non-metallic mineral products	11 909 650	11 719 644	-1,6	-190 006
Basic iron and steel, non-ferrous metal products, metal products and machinery	100 149 695	97 551 978	-2,6	-2 597 717
-Basic iron and steel products	31 122 569	30 196 532	-3,0	-926 037
-Basic precious, non-ferrous metal products	21 613 552	21 999 798	1,8	386 246
-Fabricated metal products	24 079 652	22 171 394	-7,9	-1 908 258
-Machinery and equipment	23 333 920	23 184 255	-0,6	-149 665
Electrical machinery	13 135 311	12 648 168	-3,7	-487 143
Radio, television and communication apparatus and professional equipment	5 182 525	4 733 788	-8,7	-448 737
-Radio, television and communication apparatus	3 174 742	2 894 753	-8,8	-279 989
-Professional equipment	2 007 783	1 839 035	-8,4	-168 748
Motor vehicles, parts and accessories and other transport equipment	53 537 313	56 306 807	5,2	2 769 494
-Motor vehicles, trailers, parts and accessories	48 613 755	51 064 692	5,0	2 450 937
-Other transport equipment	4 923 558	5 242 114	6,5	318 556
Furniture and other manufacturing division	14 688 468	15 530 593	5,7	842 125
-Furniture	4 009 429	3 987 814	-0,5	-21 615
-Other manufacturing groups	10 679 038	11 542 779	8,1	863 741
Total	454 556 492	455 859 911	0,3	1 303 419

Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2014



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Statistician-General

Detailed results

Table 1 – Total index of the physical volume of manufacturing production: 2008 – 2014

Base: 2010=100

Month	2008	2009	2010	2011	2012	2013	2014
Jan	97,1	82,7	84,5	86,7	89,3	92,3	94,6
Feb	109,4	91,1	92,2	98,4	102,7	100,7	102,3
Mar	113,1	97,6	103,8	109,3	106,6	104,8	105,8
Apr	112,8	86,6	93,4	93,4	95,1	102,0	100,1
May	115,4	94,2	100,6	101,6	107,1	109,6	105,3
Jun	115,7	94,5	102,9	104,2	104,9	105,6	105,8
Jul	116,0	98,2	105,3	98,9	105,8	111,9	1/ 102,7
Aug	115,8	96,3	101,6	107,8	110,2	109,6	1/ 108,5
Sep	114,4	99,9	102,2	110,4	108,0	103,9	1/ 112,2
Oct	120,8	108,4	110,3	112,9	116,6	119,0	
Nov	113,7	107,9	112,2	116,6	121,0	121,1	
Dec	86,3	89,2	91,0	93,5	94,5	97,3	
Year	110,9	95,6	100,0	102,8	105,2	106,5	

1/ Preliminary.

Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2008 – 2014

2/

Month	2008	2009	2010	2011	2012	2013	2014
Jan	0,7	-14,8	2,2	2,6	3,0	3,4	2,5
Feb	2,5	-16,7	1,2	6,7	4,4	-1,9	1,6
Mar	-2,2	-13,7	6,4	5,3	-2,5	-1,7	1,0
Apr	9,9	-23,2	7,9	0,0	1,8	7,3	-1,9
May	0,3	-18,4	6,8	1,0	5,4	2,3	-3,9
Jun	4,5	-18,3	8,9	1,3	0,7	0,7	0,2
Jul	2,6	-15,3	7,2	-6,1	7,0	5,8	-8,2
Aug	-0,3	-16,8	5,5	6,1	2,2	-0,5	-1,0
Sep	3,9	-12,7	2,3	8,0	-2,2	-3,8	8,0
Oct	-4,1	-10,3	1,8	2,4	3,3	2,1	
Nov	-9,7	-5,1	4,0	3,9	3,8	0,1	
Dec	-11,2	3,4	2,0	2,7	1,1	3,0	
Year	-0,4	-13,8	4,6	2,8	2,3	1,2	

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: 2008 – 2014

Base: 2010=100

Month	2008	2009	2010	2011	2012	2013	2014
Jan	112,8	96,7	98,2	100,9	103,4	106,4	108,9
Feb	114,6	95,3	96,6	102,6	106,9	104,5	106,2
Mar	109,4	94,3	100,6	106,4	104,0	103,0	104,2
Apr	121,1	92,9	100,7	101,0	103,0	110,2	108,2
May	114,1	93,4	100,0	100,8	106,2	108,4	104,2
Jun	114,1	93,3	101,9	103,5	104,4	105,4	105,9
Jul	113,3	96,1	103,0	97,3	104,3	110,9	101,6
Aug	112,1	93,3	98,5	104,2	106,3	105,5	104,2
Sep	110,1	96,1	98,5	106,1	104,2	100,2	108,4
Oct	108,7	98,0	100,0	102,3	106,0	108,2	
Nov	102,2	97,6	100,4	103,7	107,6	107,5	
Dec	97,0	100,8	101,1	103,8	105,2	108,2	

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 2011	Average for 2013	Actual indices			Seasonally adjusted indices		
			Sep. 2013	1/ Aug. 2014	1/ Sep. 2014	Sep. 2013	Aug. 2014	Sep. 2014
Food and beverages	23,8	108,0	112,3	110,0	119,1	107,0	106,3	113,9
-Meat, fish, fruit, etc.	5,2	109,5	111,8	114,2	122,6	108,9	111,6	119,4
-Dairy products	2,3	106,0	107,0	103,2	114,6	102,4	104,3	110,1
-Grain mill products	2,8	107,5	109,5	105,4	107,5	105,0	102,8	103,4
-Other food products	7,1	105,0	114,5	113,2	120,9	105,4	97,9	111,7
-Beverages	6,4	111,0	113,3	107,3	120,9	109,8	113,6	117,7
Textiles, clothing, leather and footwear	2,9	95,2	96,3	96,6	103,5	92,1	93,5	98,9
-Textiles	0,8	82,8	83,6	74,1	91,2	81,6	75,3	88,9
-Other textile products	0,4	95,1	81,5	99,7	98,1	79,7	96,6	96,1
-Knitted, crocheted articles	0,1	65,9	67,5	47,8	55,0	69,9	53,2	56,6
-Wearing apparel	1,0	100,9	104,9	105,9	108,1	98,9	101,4	102,2
-Leather and leather products	0,2	120,3	120,0	106,1	120,9	124,3	112,9	125,1
-Footwear	0,4	101,5	110,2	121,0	123,1	98,3	107,1	109,6
Wood and wood products, paper, publishing and printing	9,5	103,6	117,0	101,7	113,5	107,4	99,3	104,0
-Sawmilling and planing of wood	0,8	108,4	115,0	112,1	116,3	111,3	108,3	112,7
-Products of wood	1,8	98,7	103,8	104,9	117,4	97,0	98,9	109,8
-Paper and paper products	3,3	100,0	115,6	96,8	110,2	105,1	97,2	99,9
-Publishing	1,4	116,5	156,7	104,9	116,7	142,1	105,3	105,1
-Printing, recorded media	2,2	102,6	104,0	100,3	112,0	94,5	95,2	101,5
Petroleum, chemical products, rubber and plastic products	22,5	108,6	105,2	106,8	105,8	105,1	104,4	105,6
-Coke, petroleum products and nuclear fuel	6,3	101,9	100,5	86,6	87,0	108,5	83,6	94,0
-Basic chemicals	4,8	108,7	93,8	113,8	104,9	94,6	112,1	106,1
-Other chemical products	7,1	114,5	117,6	119,2	121,0	112,1	115,9	115,8
-Rubber products	1,2	113,0	100,0	98,5	105,2	95,3	105,4	100,3
-Plastic products	3,1	107,4	106,2	112,0	111,2	102,1	107,9	106,9
Glass and non-metallic mineral products	4,4	105,5	107,7	102,6	104,3	102,3	96,6	99,6
-Glass and glass products	0,9	105,3	108,8	97,3	93,9	100,0	90,0	86,5
-Non-metallic mineral products	3,5	105,6	107,4	104,0	106,9	102,9	98,3	102,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,4	105,3	107,3	107,9	107,1	104,4	103,2	104,3
-Basic iron and steel products	4,7	94,8	97,4	98,9	94,8	96,1	96,8	93,1
-Non-ferrous metal products	3,5	108,4	107,7	108,7	101,2	107,4	103,8	101,3
-Structural metal products	2,2	88,8	92,4	83,6	80,5	89,2	78,1	78,0
-Other fabricated metal products	3,9	119,5	127,5	129,9	136,5	123,9	119,5	132,6
-General purpose machinery	2,4	100,4	100,0	95,3	92,0	94,5	94,2	87,3
-Special purpose machinery	3,0	114,4	112,8	119,7	127,9	106,5	116,5	121,3
-Household appliances	0,7	113,6	109,6	113,2	103,1	110,2	105,0	104,4
Electrical machinery	2,4	104,8	111,5	110,3	113,0	102,5	103,4	104,8
Radio, television and communication apparatus and professional equipment	1,4	127,1	125,2	142,3	145,6	117,2	131,1	136,7
-Radio, television and communication apparatus	0,9	141,2	133,6	174,1	167,3	128,2	154,0	160,4
-Professional equipment	0,5	105,2	112,1	93,3	112,0	100,3	95,6	100,0
Motor vehicles, parts and accessories and other transport equipment	8,6	109,4	57,5	121,8	127,4	55,5	112,3	122,0
-Motor vehicles	3,9	124,6	42,5	151,6	160,6	40,1	139,6	151,5
-Bodies for motor vehicles, trailers and semi-trailers	0,5	111,2	118,3	111,0	121,4	112,0	104,3	115,0
-Parts and accessories	3,0	94,8	55,2	94,9	98,5	53,2	87,3	95,3
-Other transport equipment	1,2	96,8	84,4	98,4	96,1	85,7	90,8	97,8
Furniture and other manufacturing division	4,1	94,8	85,9	101,5	99,0	86,7	98,1	101,2
-Furniture	1,1	110,6	116,8	119,9	126,0	109,3	114,7	118,3
-Other manufacturing groups	3,0	89,3	75,1	95,2	89,6	78,8	92,2	95,3
Total	100,0	106,5	103,9	108,5	112,2	100,2	104,2	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 2011	Average for 2013	Actual indices			Seasonally adjusted indices		
			Sep. 2013	1/ Sep. 2014	% change between Sep. 2013 and Sep. 2014	Aug. 2014	Sep. 2014	% change between Aug. and Sep. 2014
Food and beverages	23,8	108,0	112,3	119,1	6,1	106,3	113,9	7,1
-Meat, fish, fruit, etc.	5,2	109,5	111,8	122,6	9,7	111,6	119,4	7,0
-Dairy products	2,3	106,0	107,0	114,6	7,1	104,3	110,1	5,6
-Grain mill products	2,8	107,5	109,5	107,5	-1,8	102,8	103,4	0,6
-Other food products	7,1	105,0	114,5	120,9	5,6	97,9	111,7	14,1
-Beverages	6,4	111,0	113,3	120,9	6,7	113,6	117,7	3,6
Textiles, clothing, leather and footwear	2,9	95,2	96,3	103,5	7,5	93,5	98,9	5,8
-Textiles	0,8	82,8	83,6	91,2	9,1	75,3	88,9	18,1
-Other textile products	0,4	95,1	81,5	98,1	20,4	96,6	96,1	-0,5
-Knitted, crocheted articles	0,1	65,9	67,5	55,0	-18,5	53,2	56,6	6,4
-Wearing apparel	1,0	100,9	104,9	108,1	3,1	101,4	102,2	0,8
-Leather and leather products	0,2	120,3	120,0	120,9	0,8	112,9	125,1	10,8
-Footwear	0,4	101,5	110,2	123,1	11,7	107,1	109,6	2,3
Wood and wood products, paper, publishing and printing	9,5	103,6	117,0	113,5	-3,0	99,3	104,0	4,7
-Sawmilling and planing of wood	0,8	108,4	115,0	116,3	1,1	108,3	112,7	4,1
-Products of wood	1,8	98,7	103,8	117,4	13,1	98,9	109,8	11,0
-Paper and paper products	3,3	100,0	115,6	110,2	-4,7	97,2	99,9	2,8
-Publishing	1,4	116,5	156,7	116,7	-25,5	105,3	105,1	-0,2
-Printing, recorded media	2,2	102,6	104,0	112,0	7,7	95,2	101,5	6,6
Petroleum, chemical products, rubber and plastic products	22,5	108,6	105,2	105,8	0,6	104,4	105,6	1,1
-Coke, petroleum products and nuclear fuel	6,3	101,9	100,5	87,0	-13,4	83,6	94,0	12,4
-Basic chemicals	4,8	108,7	93,8	104,9	11,8	112,1	106,1	-5,4
-Other chemical products	7,1	114,5	117,6	121,0	2,9	115,9	115,8	-0,1
-Rubber products	1,2	113,0	100,0	105,2	5,2	105,4	100,3	-4,8
-Plastic products	3,1	107,4	106,2	111,2	4,7	107,9	106,9	-0,9
Glass and non-metallic mineral products	4,4	105,5	107,7	104,3	-3,2	96,6	99,6	3,1
-Glass and glass products	0,9	105,3	108,8	93,9	-13,7	90,0	86,5	-3,9
-Non-metallic mineral products	3,5	105,6	107,4	106,9	-0,5	98,3	102,9	4,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,4	105,3	107,3	107,1	-0,2	103,2	104,3	1,1
-Basic iron and steel products	4,7	94,8	97,4	94,8	-2,7	96,8	93,1	-3,8
-Non-ferrous metal products	3,5	108,4	107,7	101,2	-6,0	103,8	101,3	-2,4
-Structural metal products	2,2	88,8	92,4	80,5	-12,9	78,1	78,0	-0,1
-Other fabricated metal products	3,9	119,5	127,5	136,5	7,1	119,5	132,6	11,0
-General purpose machinery	2,4	100,4	100,0	92,0	-8,0	94,2	87,3	-7,3
-Special purpose machinery	3,0	114,4	112,8	127,9	13,4	116,5	121,3	4,1
-Household appliances	0,7	113,6	109,6	103,1	-5,9	105,0	104,4	-0,6
Electrical machinery	2,4	104,8	111,5	113,0	1,3	103,4	104,8	1,4
Radio, television and communication apparatus and professional equipment	1,4	127,1	125,2	145,6	16,3	131,1	136,7	4,3
-Radio, television and communication apparatus	0,9	141,2	133,6	167,3	25,2	154,0	160,4	4,2
-Professional equipment	0,5	105,2	112,1	112,0	-0,1	95,6	100,0	4,6
Motor vehicles, parts and accessories and other transport equipment	8,6	109,4	57,5	127,4	121,6	112,3	122,0	8,6
-Motor vehicles	3,9	124,6	42,5	160,6	277,9	139,6	151,5	8,5
-Bodies for motor vehicles, trailers and semi-trailers	0,5	111,2	118,3	121,4	2,6	104,3	115,0	10,3
-Parts and accessories	3,0	94,8	55,2	98,5	78,4	87,3	95,3	9,2
-Other transport equipment	1,2	96,8	84,4	96,1	13,9	90,8	97,8	7,7
Furniture and other manufacturing division	4,1	94,8	85,9	99,0	15,3	98,1	101,2	3,2
-Furniture	1,1	110,6	116,8	126,0	7,9	114,7	118,3	3,1
-Other manufacturing groups	3,0	89,3	75,1	89,6	19,3	92,2	95,3	3,4
Total	100,0	106,5	103,9	112,2	8,0	104,2	108,4	4,0

1/ Preliminary.

Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2008 – 2014

Month	2008	2009	2010	2011	2012	2013	2014
Jan	94 742 175	89 411 709	90 043 639	95 914 260	107 125 725	116 496 690	130 317 527
Feb	112 667 149	101 389 780	101 802 931	111 504 610	125 726 110	131 666 953	146 262 502
Mar	119 658 956	109 741 940	115 312 858	126 114 741	133 201 183	137 659 315	151 399 659
Apr	121 578 756	93 988 030	101 813 278	108 002 905	117 398 378	133 362 802	143 701 281
May	124 921 581	100 539 504	109 347 265	117 550 156	130 161 819	141 170 742	148 218 032
Jun	129 712 325	102 182 642	113 714 894	122 066 418	130 686 381	139 191 581	156 152 997
Jul	133 522 456	103 852 587	112 863 459	112 900 609	127 523 717	146 281 118	1/ 146 085 440
Aug	131 306 310	104 831 059	110 602 573	124 733 688	134 271 194	143 904 416	1/ 155 837 903
Sep	130 807 226	109 100 206	113 246 712	133 013 706	131 703 059	140 281 228	1/ 161 367 511
Oct	137 573 799	114 516 711	121 671 719	133 668 047	144 305 886	156 176 718	
Nov	128 271 568	116 693 241	126 495 305	139 068 350	153 074 012	162 115 203	
Dec	100 934 476	99 259 368	104 538 782	117 666 432	123 592 966	140 400 601	
Year	1 465 696 777	1 245 506 777	1 321 453 415	1 442 203 922	1 558 770 430	1 688 707 367	

1/ Preliminary.

Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2008 – 2014 2/

Month	2008	2009	2010	2011	2012	2013	2014
Jan	11,9	-5,6	0,7	6,5	11,7	8,7	11,9
Feb	16,1	-10,0	0,4	9,5	12,8	4,7	11,1
Mar	14,4	-8,3	5,1	9,4	5,6	3,3	10,0
Apr	28,7	-22,7	8,3	6,1	8,7	13,6	7,8
May	17,9	-19,5	8,8	7,5	10,7	8,5	5,0
Jun	26,0	-21,2	11,3	7,3	7,1	6,5	12,2
Jul	29,0	-22,2	8,7	0,0	13,0	14,7	-0,1
Aug	20,0	-20,2	5,5	12,8	7,6	7,2	8,3
Sep	24,8	-16,6	3,8	17,5	-1,0	6,5	15,0
Oct	16,3	-16,8	6,2	9,9	8,0	8,2	
Nov	5,9	-9,0	8,4	9,9	10,1	5,9	
Dec	4,9	-1,7	5,3	12,6	5,0	13,6	
Year	17,9	-15,0	6,1	9,1	8,1	8,3	

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): 2008 – 2014

Month	2008	2009	2010	2011	2012	2013	2014
Jan	112 856 877	107 063 213	107 448 143	113 886 407	125 615 392	136 140 435	151 847 492
Feb	118 302 506	106 110 242	105 973 347	115 640 753	130 094 130	135 601 656	150 394 175
Mar	115 777 001	105 627 989	110 547 163	121 210 010	128 483 055	133 269 072	146 722 310
Apr	130 236 627	100 917 591	109 278 855	115 417 779	125 002 885	141 533 429	152 084 514
May	124 332 778	100 927 214	109 595 894	117 637 648	130 453 325	141 552 410	148 583 535
Jun	126 738 047	100 406 700	111 751 362	120 007 509	128 633 567	137 168 990	153 888 443
Jul	130 439 219	102 333 732	111 509 728	112 023 674	126 918 040	145 792 071	145 851 074
Aug	127 074 849	102 120 554	108 346 737	122 504 725	131 952 025	141 437 713	153 435 786
Sep	124 303 481	103 956 051	108 146 939	127 746 004	127 040 594	136 063 318	156 573 051
Oct	125 105 692	104 421 418	111 384 152	122 935 151	133 216 475	144 368 877	
Nov	115 333 986	104 680 224	112 981 766	123 999 496	136 680 426	144 670 172	
Dec	111 216 486	108 567 008	114 007 303	127 942 624	133 436 375	151 577 557	

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

Manufacturing divisions and major groups	Year 2013	Actual values			Seasonally adjusted values		
		Sep. 2013	1/ Aug. 2014	1/ Sep. 2014	Sep. 2013	Aug. 2014	Sep. 2014
Food and beverages	358 787 605	30 713 522	32 174 589	34 731 777	29 848 226	32 296 629	33 833 931
-Meat, fish, fruit, etc.	93 676 050	8 046 938	8 682 926	9 357 297	7 791 652	8 514 963	9 074 622
-Dairy products	30 433 389	2 523 572	2 789 171	3 005 779	2 473 572	2 855 010	2 951 358
-Grain mill products	60 913 071	5 210 929	5 359 982	5 415 420	5 053 468	5 257 089	5 270 146
-Other food products	74 241 039	6 390 187	7 133 041	7 233 072	6 207 680	6 830 882	7 040 359
-Beverages	99 524 056	8 541 896	8 209 469	9 720 209	8 321 854	8 838 686	9 497 446
Textiles, clothing, leather and footwear	45 890 303	3 745 073	4 164 871	4 349 973	3 669 801	4 078 206	4 269 977
-Textiles	5 646 925	472 488	478 356	568 623	468 407	475 794	564 802
-Other textile products	11 512 078	834 514	1 080 439	1 056 990	835 546	1 055 389	1 059 697
-Knitted, crocheted articles	2 614 746	206 655	176 925	196 652	223 799	194 382	212 885
-Wearing apparel	15 631 991	1 340 453	1 481 297	1 530 399	1 285 071	1 411 849	1 473 823
-Leather and leather products	6 142 555	513 036	520 362	535 722	508 656	528 615	532 243
-Footwear	4 342 008	377 927	427 492	461 587	348 322	412 177	426 527
Wood and wood products, paper, publishing and printing	128 298 495	12 309 230	11 126 366	12 578 761	11 230 090	10 769 817	11 458 710
-Sawmilling and planing of wood	9 846 071	888 029	841 782	949 434	825 774	791 610	886 092
-Products of wood	17 300 181	1 530 541	1 577 456	1 751 660	1 428 530	1 506 466	1 638 625
-Paper and paper products	55 755 255	5 415 449	4 999 997	5 726 825	4 792 795	4 877 771	5 064 542
-Publishing	20 848 245	2 404 488	1 637 315	1 823 587	2 231 809	1 649 162	1 677 029
-Printing, recorded media	24 548 743	2 070 723	2 069 816	2 327 255	1 951 182	1 944 808	2 192 422
Petroleum, chemical products, rubber and plastic products	423 519 162	35 891 456	36 662 617	35 536 351	35 719 371	36 271 328	35 264 654
-Coke, petroleum products and nuclear fuel	179 277 670	14 729 167	14 008 201	12 128 125	15 599 163	13 795 275	12 937 812
-Basic chemicals	84 434 772	7 408 574	7 761 625	8 090 293	7 084 830	7 955 415	7 763 446
-Other chemical products	94 393 875	8 369 484	8 825 434	9 187 118	7 839 434	8 638 232	8 627 402
-Rubber products	16 107 981	1 141 225	1 362 862	1 437 966	1 132 423	1 371 904	1 429 819
-Plastic products	49 304 864	4 243 006	4 704 495	4 692 849	4 063 521	4 510 503	4 506 176
Glass and non-metallic mineral products	54 410 554	4 814 087	4 914 826	5 159 146	4 414 114	4 642 290	4 751 074
-Glass and glass products	9 847 833	922 867	796 023	886 732	808 001	777 234	777 352
-Non-metallic mineral products	44 562 721	3 891 220	4 118 803	4 272 414	3 606 113	3 865 057	3 973 722
Basic iron and steel, non-ferrous metal products, metal products and machinery	362 211 704	31 193 541	35 360 481	35 984 507	30 422 960	34 865 772	35 264 708
-Basic iron and steel products	107 121 206	9 148 371	11 434 615	11 081 634	9 248 690	11 680 887	11 218 727
-Non-ferrous metal products	75 898 020	6 639 712	7 559 696	7 791 281	6 386 207	7 498 042	7 555 040
-Structural metal products	33 623 084	2 846 091	2 804 369	2 683 914	2 781 073	2 625 918	2 633 906
-Other fabricated metal products	56 645 754	4 916 341	5 312 333	5 810 690	4 784 941	4 908 524	5 672 765
-General purpose machinery	34 285 217	2 959 130	3 065 691	3 000 239	2 763 164	3 034 254	2 814 271
-Special purpose machinery	45 235 936	3 885 243	4 346 957	4 773 988	3 678 389	4 300 899	4 542 105
-Household appliances	9 402 487	798 653	836 820	842 761	780 494	817 247	827 895
Electrical machinery	50 394 196	4 478 885	4 845 293	5 043 481	4 212 845	4 551 905	4 771 208
Radio, television and communication apparatus and professional equipment	18 121 946	1 645 890	1 809 921	1 899 342	1 508 655	1 605 427	1 751 757
-Radio, television and communication apparatus	10 394 619	897 652	1 164 368	1 167 682	849 841	983 507	1 109 792
-Professional equipment	7 727 327	748 238	645 553	731 660	658 814	621 920	641 965
Motor vehicles, parts and accessories and other transport equipment	191 772 877	10 701 328	19 340 123	20 886 747	10 291 873	19 168 954	20 037 890
-Motor vehicles	106 642 282	5 163 996	10 869 666	12 215 072	4 886 650	11 080 636	11 573 003
-Bodies for motor vehicles, trailers and semi-trailers	8 714 712	834 421	763 134	875 023	759 678	730 000	793 820
-Parts and accessories	56 149 287	3 202 171	5 837 042	5 968 971	3 089 800	5 637 607	5 766 653
-Other transport equipment	20 266 596	1 500 740	1 870 281	1 827 681	1 555 745	1 720 710	1 904 414
Furniture and other manufacturing division	55 300 525	4 788 216	5 438 816	5 197 426	4 745 384	5 185 457	5 169 141
-Furniture	14 272 983	1 245 827	1 367 772	1 388 915	1 204 058	1 328 952	1 347 670
-Other manufacturing groups	41 027 542	3 542 389	4 071 044	3 808 511	3 541 325	3 856 506	3 821 471
Total	1 688 707 367	140 281 228	155 837 903	161 367 511	136 063 318	153 435 786	156 573 051

1/ Preliminary.

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

Manufacturing divisions and major groups	Year 2013	Actual values			Seasonally adjusted values		
		Sep. 2013	1/ Sep. 2014	% change between Sep. 2013 and Sep. 2014	Aug. 2014	Sep. 2014	% change between Aug. and Sep. 2014
Food and beverages	358 787 605	30 713 522	34 731 777	13,1	32 296 629	33 833 931	4,8
-Meat, fish, fruit, etc.	93 676 050	8 046 938	9 357 297	16,3	8 514 963	9 074 622	6,6
-Dairy products	30 433 389	2 523 572	3 005 779	19,1	2 855 010	2 951 358	3,4
-Grain mill products	60 913 071	5 210 929	5 415 420	3,9	5 257 089	5 270 146	0,2
-Other food products	74 241 039	6 390 187	7 233 072	13,2	6 830 882	7 040 359	3,1
-Beverages	99 524 056	8 541 896	9 720 209	13,8	8 838 686	9 497 446	7,5
Textiles, clothing, leather and footwear	45 890 303	3 745 073	4 349 973	16,2	4 078 206	4 269 977	4,7
-Textiles	5 646 925	472 488	568 623	20,3	475 794	564 802	18,7
-Other textile products	11 512 078	834 514	1 056 990	26,7	1 055 389	1 059 697	0,4
-Knitted, crocheted articles	2 614 746	206 655	196 652	-4,8	194 382	212 885	9,5
-Wearing apparel	15 631 991	1 340 453	1 530 399	14,2	1 411 849	1 473 823	4,4
-Leather and leather products	6 142 555	513 036	535 722	4,4	528 615	532 243	0,7
-Footwear	4 342 008	377 927	461 587	22,1	412 177	426 527	3,5
Wood and wood products, paper, publishing and printing	128 298 495	12 309 230	12 578 761	2,2	10 769 817	11 458 710	6,4
-Sawmilling and planing of wood	9 846 071	888 029	949 434	6,9	791 610	886 092	11,9
-Products of wood	17 300 181	1 530 541	1 751 660	14,4	1 506 466	1 638 625	8,8
-Paper and paper products	55 755 255	5 415 449	5 726 825	5,7	4 877 771	5 064 542	3,8
-Publishing	20 848 245	2 404 488	1 823 587	-24,2	1 649 162	1 677 029	1,7
-Printing, recorded media	24 548 743	2 070 723	2 327 255	12,4	1 944 808	2 192 422	12,7
Petroleum, chemical products, rubber and plastic products	423 519 162	35 891 456	35 536 351	-1,0	36 271 328	35 264 654	-2,8
-Coke, petroleum products and nuclear fuel	179 277 670	14 729 167	12 128 125	-17,7	13 795 275	12 937 812	-6,2
-Basic chemicals	84 434 772	7 408 574	8 090 293	9,2	7 955 415	7 763 446	-2,4
-Other chemical products	94 393 875	8 369 484	9 187 118	9,8	8 638 232	8 627 402	-0,1
-Rubber products	16 107 981	1 141 225	1 437 966	26,0	1 371 904	1 429 819	4,2
-Plastic products	49 304 864	4 243 006	4 692 849	10,6	4 510 503	4 506 176	-0,1
Glass and non-metallic mineral products	54 410 554	4 814 087	5 159 146	7,2	4 642 290	4 751 074	2,3
-Glass and glass products	9 847 833	922 867	886 732	-3,9	777 234	777 352	-0,0
-Non-metallic mineral products	44 562 721	3 891 220	4 272 414	9,8	3 865 057	3 973 722	2,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	362 211 704	31 193 541	35 984 507	15,4	34 865 772	35 264 708	1,1
-Basic iron and steel products	107 121 206	9 148 371	11 081 634	21,1	11 680 887	11 218 727	-4,0
-Non-ferrous metal products	75 898 020	6 639 712	7 791 281	17,3	7 498 042	7 555 040	0,8
-Structural metal products	33 623 084	2 846 091	2 683 914	-5,7	2 625 918	2 633 906	0,3
-Other fabricated metal products	56 645 754	4 916 341	5 810 690	18,2	4 908 524	5 672 765	15,6
-General purpose machinery	34 285 217	2 959 130	3 000 239	1,4	3 034 254	2 814 271	-7,2
-Special purpose machinery	45 235 936	3 885 243	4 773 988	22,9	4 300 899	4 542 105	5,6
-Household appliances	9 402 487	798 653	842 761	5,5	817 247	827 895	1,3
Electrical machinery	50 394 196	4 478 885	5 043 481	12,6	4 551 905	4 771 208	4,8
Radio, television and communication apparatus and professional equipment	18 121 946	1 645 890	1 899 342	15,4	1 605 427	1 751 757	9,1
-Radio, television and communication apparatus	10 394 619	897 652	1 167 682	30,1	983 507	1 109 792	12,8
-Professional equipment	7 727 327	748 238	731 660	-2,2	621 920	641 965	3,2
Motor vehicles, parts and accessories and other transport equipment	191 772 877	10 701 328	20 886 747	95,2	19 168 954	20 037 890	4,5
-Motor vehicles	106 642 282	5 163 996	12 215 072	136,5	11 080 636	11 573 003	4,4
-Bodies for motor vehicles, trailers and semi-trailers	8 714 712	834 421	875 023	4,9	730 000	793 820	8,7
-Parts and accessories	56 149 287	3 202 171	5 968 971	86,4	5 637 607	5 766 653	2,3
-Other transport equipment	20 266 596	1 500 740	1 827 681	21,8	1 720 710	1 904 414	10,7
Furniture and other manufacturing division	55 300 525	4 788 216	5 197 426	8,5	5 185 457	5 169 141	-0,3
-Furniture	14 272 983	1 245 827	1 388 915	11,5	1 328 952	1 347 670	1,4
-Other manufacturing groups	41 027 542	3 542 389	3 808 511	7,5	3 856 506	3 821 471	-0,9
Total	1 688 707 367	140 281 228	161 367 511	15,0	153 435 786	156 573 051	2,0

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 2011	Production indices (base: 2010=100)			Value of sales (R'000)		
		Jul. to Sep. 2013	Jul. to Sep. 2014	% change between Jul. to Sep. 2013 and Jul. to Sep. 2014	Jul. to Sep. 2013	Jul. to Sep. 2014	% change between Jul. to Sep. 2013 and Jul. to Sep. 2014
Food and beverages	23,8	111,0	113,9	2,6	89 386 399	98 748 208	10,5
-Meat, fish, fruit, etc.	5,2	111,5	118,4	6,2	23 866 800	26 889 724	12,7
-Dairy products	2,3	104,0	106,4	2,3	7 467 018	8 552 510	14,5
-Grain mill products	2,8	109,9	106,7	-2,9	15 590 970	16 230 490	4,1
-Other food products	7,1	118,3	119,4	0,9	18 963 640	21 183 319	11,7
-Beverages	6,4	105,6	109,9	4,1	23 497 971	25 892 165	10,2
Textiles, clothing, leather and footwear	2,9	98,0	99,8	1,8	11 668 460	12 582 342	7,8
-Textiles	0,8	84,5	81,9	-3,1	1 448 102	1 560 346	7,8
-Other textile products	0,4	92,6	97,9	5,7	2 846 470	3 136 825	10,2
-Knitted, crocheted articles	0,1	62,3	51,8	-16,9	607 303	564 475	-7,1
-Wearing apparel	1,0	104,1	106,9	2,7	4 055 307	4 444 311	9,6
-Leather and leather products	0,2	121,6	114,3	-6,0	1 578 592	1 551 867	-1,7
-Footwear	0,4	111,8	122,5	9,6	1 132 686	1 324 518	16,9
Wood and wood products, paper, publishing and printing	9,5	112,4	106,6	-5,2	34 937 041	35 056 574	0,3
-Sawmilling and planing of wood	0,8	115,7	117,3	1,4	2 701 800	2 731 671	1,1
-Products of wood	1,8	106,0	106,9	0,8	4 670 439	4 810 918	3,0
-Paper and paper products	3,3	107,0	102,1	-4,6	14 961 206	15 527 359	3,8
-Publishing	1,4	136,0	107,2	-21,2	6 131 529	5 055 088	-17,6
-Printing, recorded media	2,2	108,7	108,5	-0,2	6 472 067	6 931 538	7,1
Petroleum, chemical products, rubber and plastic products	22,5	110,6	107,3	-3,0	109 148 192	111 300 665	2,0
-Coke, petroleum products and nuclear fuel	6,3	106,6	94,6	-11,3	46 796 183	43 514 928	-7,0
-Basic chemicals	4,8	107,4	112,6	4,8	21 318 837	23 917 392	12,2
-Other chemical products	7,1	117,3	116,3	-0,9	24 359 272	26 054 692	7,0
-Rubber products	1,2	107,8	100,7	-6,6	3 809 865	4 168 742	9,4
-Plastic products	3,1	110,0	107,2	-2,5	12 864 035	13 644 911	6,1
Glass and non-metallic mineral products	4,4	112,9	105,8	-6,3	14 760 192	15 046 085	1,9
-Glass and glass products	0,9	114,6	94,1	-17,9	2 681 919	2 493 282	-7,0
-Non-metallic mineral products	3,5	112,5	108,7	-3,4	12 078 273	12 552 803	3,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,4	109,4	100,7	-8,0	94 073 786	98 586 349	4,8
-Basic iron and steel products	4,7	98,8	90,6	-8,3	27 322 001	29 473 655	7,9
-Non-ferrous metal products	3,5	112,2	100,2	-10,7	19 816 976	22 136 042	11,7
-Structural metal products	2,2	90,3	77,1	-14,6	8 453 263	7 736 158	-8,5
-Other fabricated metal products	3,9	128,5	120,3	-6,4	15 075 218	15 275 569	1,3
-General purpose machinery	2,4	101,2	88,5	-12,5	8 777 064	8 595 352	-2,1
-Special purpose machinery	3,0	117,7	118,8	0,9	12 240 621	13 056 399	6,7
-Household appliances	0,7	113,0	99,9	-11,6	2 388 643	2 313 174	-3,2
Electrical machinery	2,4	111,0	102,0	-8,1	13 583 248	13 289 190	-2,2
Radio, television and communication apparatus and professional equipment	1,4	129,4	136,2	5,3	4 829 522	5 126 580	6,2
-Radio, television and communication apparatus	0,9	145,1	160,6	10,7	2 808 501	3 170 178	12,9
-Professional equipment	0,5	105,2	98,6	-6,3	2 021 021	1 956 402	-3,2
Motor vehicles, parts and accessories and other transport equipment	8,6	93,3	113,5	21,7	43 717 748	57 654 047	31,9
-Motor vehicles	3,9	91,4	137,0	49,9	22 919 177	32 851 873	43,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	121,8	109,1	-10,4	2 442 651	2 392 133	-2,1
-Parts and accessories	3,0	91,1	92,3	1,3	13 527 324	17 072 189	26,2
-Other transport equipment	1,2	92,1	93,6	1,6	4 828 596	5 337 852	10,5
Furniture and other manufacturing division	4,1	93,5	102,3	9,4	14 362 174	15 900 814	10,7
-Furniture	1,1	117,2	122,1	4,2	3 772 069	4 117 320	9,2
-Other manufacturing groups	3,0	85,2	95,5	12,1	10 590 105	11 783 494	11,3
Total	100,0	108,5	107,8	-0,6	430 466 762	463 290 854	7,6

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 2014 was 86,9%. The improved collection rate for August 2014 was 90,6%.
- 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 2014 from a population then of 45 405 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, for the period 2010 the weights are based on national accounts value added data for 2010 and for the period 2011 to 2014, the weights are based on national accounts value added data of 2011. 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 2005 to 2009, 2010 and 2011 to 2014).

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.
 - *South African 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

26 Neyman optimal allocation

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

$$n_h = n * (N_h * S_h) / [\sum (N_i * S_i)].$$

Class limits: Manufacturing (Rand)

Enterprise size	Lower limits	Upper limits
Very small	1 633 746	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</i> (SNA) in the same way as in the 1993 <i>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. Output excludes excise and customs duty paid.
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 2005 LSS of the manufacturing industry 2005 - 2009	Weights according to 2010 national accounts value added 2010	Weights according to 2011 national accounts value added 2011 - 2014
Food and beverages	15,4	22,1	23,8
Meat, fish, fruit, etc.	1,8	4,4	5,2
Dairy products	0,8	2,2	2,3
Grain mill products	0,8	2,7	2,8
Other food products	5,2	6,4	7,1
Beverages	6,8	6,4	6,4
Textiles, clothing, leather and footwear	4,9	3,5	2,9
Textiles	0,7	0,7	0,8
Other textile products	0,9	0,4	0,4
Knitted, crocheted articles	0,2	0,1	0,1
Wearing apparel	2,1	1,6	1,0
Tanning, dressing of leather	0,6	0,2	0,2
Footwear	0,4	0,5	0,4
Wood and wood products, paper, publishing and printing	10,2	9,3	9,5
Sawmilling and planing of wood	0,7	0,8	0,8
Products of wood	1,3	1,7	1,8
Paper and paper products	3,8	3,2	3,3
Publishing	1,9	1,4	1,4
Printing, recorded media	2,5	2,2	2,2
Petroleum, chemical products, rubber and plastic products	22,1	25,1	22,5
Petroleum products	8,5	8,0	6,3
Basic chemicals	4,5	5,8	4,8
Other chemical products	5,3	7,4	7,1
Rubber products	1,0	1,2	1,2
Plastic products	2,7	2,7	3,1
Glass and non-metallic mineral products	4,8	4,9	4,4
Glass and glass products	1,0	0,8	0,9
Non-metallic mineral products	3,8	4,1	3,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	20,3	20,4
Basic iron and steel products	7,7	4,4	4,7
Non-ferrous metal products	3,4	3,5	3,5
Structural metal products	2,0	1,9	2,2
Other fabricated metal products	3,8	3,8	3,9
General purpose machinery	2,4	2,3	2,4
Special purpose machinery	3,1	3,5	3,0
Household appliances	0,6	0,9	0,7
Electrical machinery	2,5	2,4	2,4
Radio, television and communication apparatus and professional equipment	1,1	1,3	1,4
Radio, television and communication apparatus	0,4	0,8	0,9
Professional equipment	0,7	0,5	0,5
Motor vehicles, parts and accessories and other transport equipment	10,9	7,9	8,6
Motor vehicles	4,9	3,2	3,9
Bodies for motor vehicles, trailers and semi-trailers	0,5	0,6	0,5
Parts and accessories	4,7	2,9	3,0
Other transport equipment	0,9	1,2	1,2
Other manufacturing divisions	5,2	3,2	4,1
Furniture	1,3	0,9	1,1
Other manufacturing groups	3,9	2,3	3,0
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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