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Statistical release

P3041.2

Manufacturing: Production and sales (Preliminary)

January 2014

**Embargoed until:
13 March 2014
13:00**

Enquiries:

User information services
Tel. (012) 310 8600

Forthcoming issue:

February 2014

Expected release date

10 April 2014

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Key figures for January 2014

Table A – Manufacturing production and sales

Estimates	January 2014	% change between January 2013 and January 2014	% change between November 2012 to January 2013 and November 2013 to January 2014
Physical volume of manufacturing production index (base: 2010=100)	95,0	2,5	1,7
Total estimated sales of manufactured products (R million)	128 467	12,0	10,4

Seasonally adjusted estimates	January 2014	% change between December 2013 and January 2014	% change between August to October 2013 and November 2013 to January 2014
Physical volume of manufacturing production index (base: 2010=100)	109,4	0,5	3,4
Total value of sales of manufactured products (R million)	149 790	0,5	6,7

Manufacturing production increased by 2,5% in January 2014 compared with January 2013.

The 2,5% year-on-year increase in manufacturing production in January 2014 was mainly due to higher production in the following divisions:

- food and beverages (4,5% and contributing 1,0 percentage point);
- petroleum, chemical products, rubber and plastic products (3,1% and contributing 0,8 of a percentage point); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (2,3% and contributing 0,4 of a percentage point) (see Table 4b).

Seasonally adjusted manufacturing production increased by 3,4% in the three months ended January 2014 compared with the previous three months. Six of the ten manufacturing divisions reported positive growth rates over this period.

The largest positive contributions to the increase of 3,4% were made by the following divisions:

- motor vehicles, parts and accessories and other transport equipment (39,4% and contributing 2,5 percentage points);
- petroleum, chemical products, rubber and plastic products (4,7% and contributing 1,2 percentage points); and
- food and beverages (2,1% and contributing 0,5 of a percentage point) (see Table B).

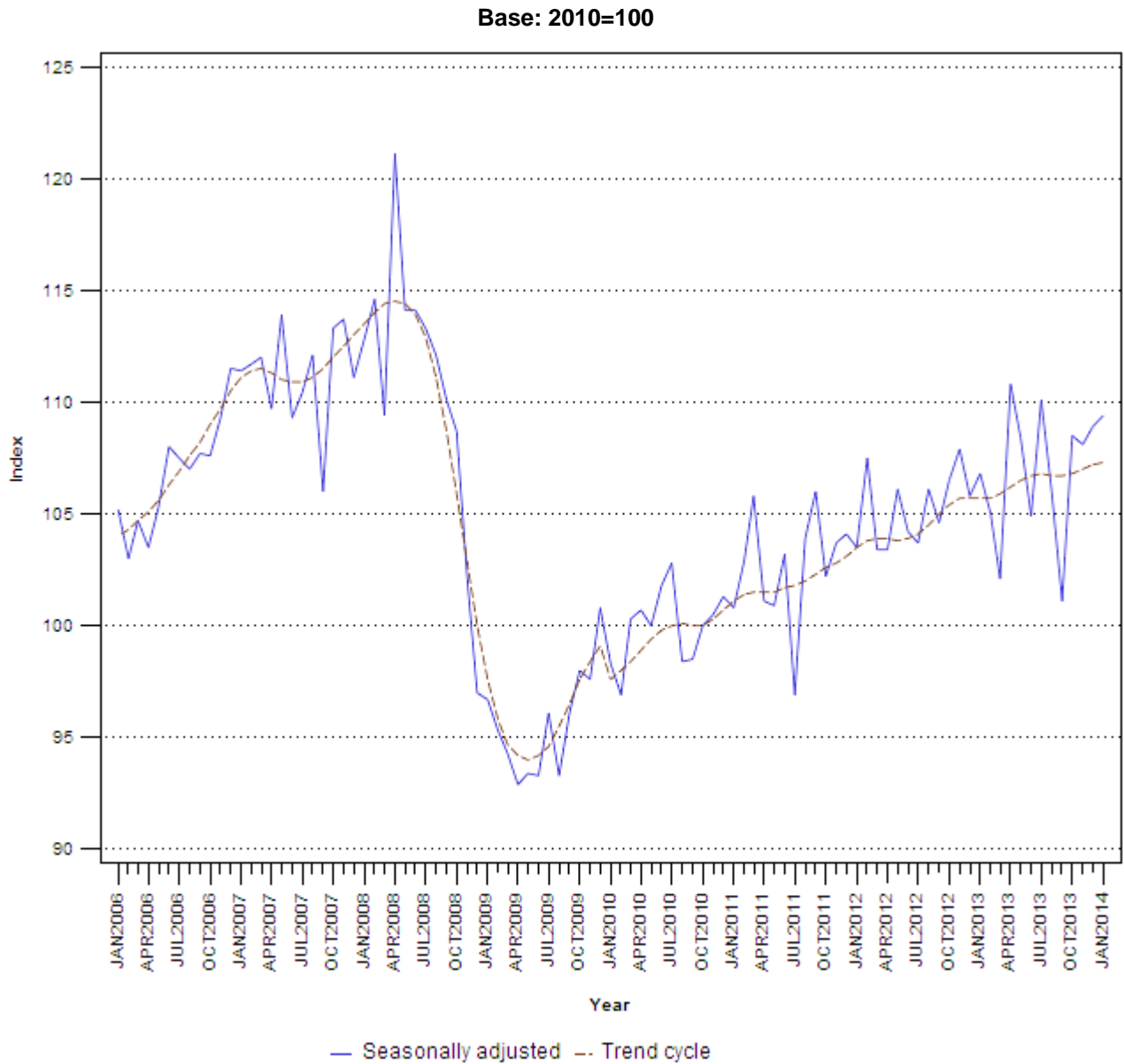
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average seasonally adjusted production index for August to October 2013	Average seasonally adjusted production index for November 2013 to January 2014	Quarterly % change of November 2013 to January 2014 compared with the preceding three months	Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/
Food and beverages	22,1	107,8	110,1	2,1	0,5
-Meat, fish, fruit, etc.	4,4	109,7	114,4	4,3	0,2
-Dairy products	2,2	103,9	106,6	2,6	0,1
-Grain mill products	2,7	105,8	110,0	4,0	0,1
-Other food products	6,4	105,6	105,7	0,1	0,0
-Beverages	6,4	110,9	112,9	1,8	0,1
Textiles, clothing, leather and footwear	3,5	96,0	97,7	1,8	0,1
-Textiles	1,1	85,8	87,0	1,4	0,0
-Wearing apparel	1,7	97,5	97,4	-0,1	0,0
-Leather and leather products	0,2	128,0	134,8	5,3	0,0
-Footwear	0,5	99,0	105,7	6,8	0,0
Wood and wood products, paper, publishing and printing	9,3	108,6	100,6	-7,4	-0,7
-Wood and products of wood	2,5	104,7	98,9	-5,5	-0,1
-Paper and paper products	3,2	102,1	100,4	-1,7	-0,1
-Publishing and printing	3,6	117,0	102,1	-12,7	-0,5
Petroleum, chemical products, rubber and plastic products	25,1	108,8	113,9	4,7	1,2
-Coke, petroleum products and nuclear fuel	8,0	108,9	112,6	3,4	0,3
-Basic chemicals	5,8	102,7	116,9	13,8	0,8
-Other chemical products	7,4	115,8	114,4	-1,2	-0,1
-Rubber products	1,2	104,3	113,9	9,2	0,1
-Plastic products	2,7	104,5	109,9	5,2	0,1
Glass and non-metallic mineral products	4,9	105,9	101,7	-4,0	-0,2
-Glass and glass products	0,8	103,9	94,5	-9,0	-0,1
-Non-metallic mineral products	4,1	106,2	103,2	-2,8	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	106,2	105,1	-1,0	-0,2
-Basic iron and steel products	4,4	96,7	94,5	-2,3	-0,1
-Basic precious, non-ferrous metal products	3,5	108,0	103,5	-4,2	-0,1
-Fabricated metal products	5,7	113,6	112,1	-1,3	-0,1
-Machinery and equipment	6,7	105,3	106,9	1,5	0,1
Electrical machinery	2,4	106,0	104,1	-1,8	0,0
Radio, television and communication apparatus and professional equipment	1,3	127,6	139,6	9,4	0,1
-Radio, television and communication apparatus	0,8	146,7	160,6	9,5	0,1
-Professional equipment	0,5	100,6	110,0	9,3	0,0
Motor vehicles, parts and accessories and other transport equipment	7,9	84,0	117,1	39,4	2,5
-Motor vehicles	3,2	80,1	143,9	79,7	1,9
-Bodies for motor vehicles, trailers and semi-trailers	0,6	114,8	110,4	-3,8	0,0
-Parts and accessories	2,9	79,1	92,6	17,1	0,4
-Other transport equipment	1,2	89,9	107,3	19,4	0,2
Furniture and other manufacturing division	3,2	93,9	99,6	6,1	0,2
-Furniture	0,9	113,0	111,1	-1,7	0,0
-Other manufacturing groups	2,3	86,0	94,8	10,2	0,2
Total	100,0	105,2	108,8	3,4	3,4

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

Figure 1 – Index of the physical volume of manufacturing production: 2006 – 2014



Please note the following changes in the forthcoming issue.

For the February 2014 release (published in April 2014), 2011 weights based on the 2011 national accounts value added weights will be applied starting from January 2011 in order to obtain division and total manufacturing indices. Currently, the weights are based on the 2010 national accounts value added weights.

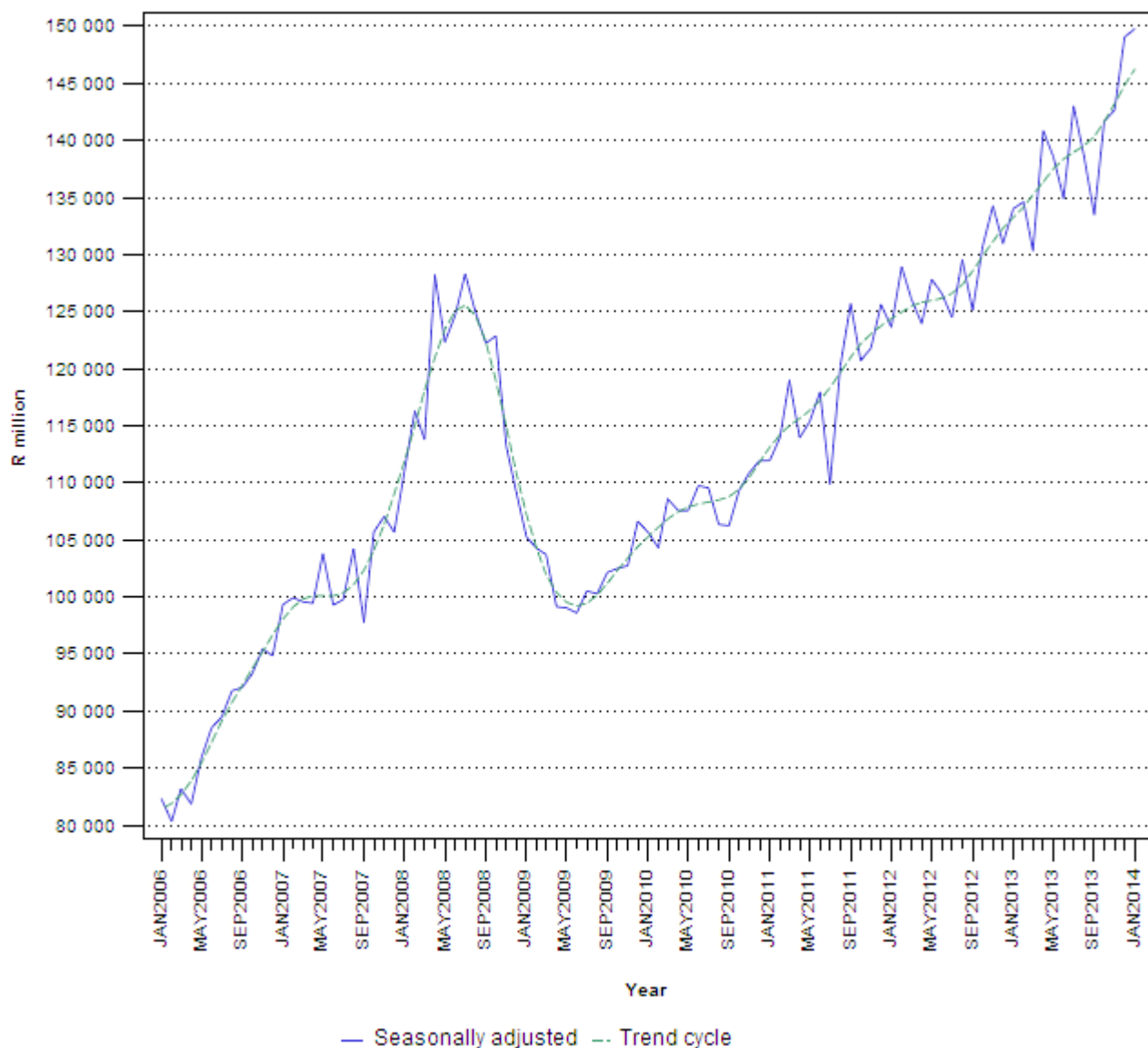
Seasonally adjusted sales of manufactured products (at current prices) increased by 6,7% (R27 656 million) in the three months ended January 2014 compared with the previous three months.

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were motor vehicles, parts and accessories and other transport equipment (30,4% or R12 661 million) and petroleum, chemical products, rubber and plastic products (9,5% or R10 082 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 August to October 2013	Seasonally adjusted sales November 2013 to January 2014	% change between August to October 2013 and November 2013 to January 2014	Difference in seasonally adjusted sales of manufacturing divisions between August to October 2013 and November 2013 to January 2014
	R'000	R'000	%	R'000
Food and beverages	88 188 590	91 697 546	4,0	3 508 956
-Food and food products	63 704 039	66 675 088	4,7	2 971 049
-Beverages	24 484 551	25 022 457	2,2	537 906
Textiles, clothing, leather and footwear	10 835 364	11 280 107	4,1	444 743
-Textiles	3 994 307	4 125 275	3,3	130 968
-Wearing apparel	4 245 629	4 351 569	2,5	105 940
-Leather and leather products	1 652 976	1 820 165	10,1	167 189
-Footwear	942 453	983 101	4,3	40 648
Wood and wood products, paper, publishing and printing	32 684 880	31 029 589	-5,1	-1 655 291
-Wood and products of wood	6 544 045	6 387 419	-2,4	-156 626
-Paper and paper products	14 619 429	14 502 526	-0,8	-116 903
-Publishing and printing	11 521 407	10 139 644	-12,0	-1 381 763
Petroleum, chemical products, rubber and plastic products	105 616 623	115 699 031	9,5	10 082 408
-Coke, petroleum products and nuclear fuel	45 379 967	51 626 635	13,8	6 246 668
-Basic chemicals	21 243 019	23 982 268	12,9	2 739 249
-Other chemical products	22 961 830	22 783 336	-0,8	-178 494
-Rubber products	3 577 569	4 132 059	15,5	554 490
-Plastic products	12 454 238	13 174 733	5,8	720 495
Glass and non-metallic mineral products	12 878 320	12 686 819	-1,5	-191 501
-Glass and glass products	2 264 994	2 097 989	-7,4	-167 005
-Non-metallic mineral products	10 613 327	10 588 830	-0,2	-24 497
Basic iron and steel, non-ferrous metal products, metal products and machinery	91 134 030	93 594 903	2,7	2 460 873
-Basic iron and steel products	26 254 856	28 096 346	7,0	1 841 490
-Basic precious, non-ferrous metal products	18 612 122	19 001 793	2,1	389 671
-Fabricated metal products	23 743 720	23 731 050	-0,1	-12 670
-Machinery and equipment	22 523 333	22 765 713	1,1	242 380
Electrical machinery	12 249 586	12 182 617	-0,5	-66 969
Radio, television and communication apparatus and professional equipment	4 899 478	5 375 845	9,7	476 367
-Radio, television and communication apparatus	2 533 395	2 871 333	13,3	337 938
-Professional equipment	2 366 082	2 504 512	5,9	138 430
Motor vehicles, parts and accessories and other transport equipment	41 651 685	54 312 786	30,4	12 661 101
-Motor vehicles, trailers, parts and accessories	37 239 220	48 886 429	31,3	11 647 209
-Other transport equipment	4 412 465	5 426 356	23,0	1 013 891
Furniture and other manufacturing division	13 707 079	13 642 779	-0,5	-64 300
-Furniture	3 476 581	3 397 554	-2,3	-79 027
-Other manufacturing groups	10 230 499	10 245 225	0,1	14 726
Total	413 845 637	441 502 022	6,7	27 656 385

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



PJ Lehohla
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	86,6	89,4	92,7	1/ 95,0
Feb	109,4	91,1	92,2	98,1	102,6	100,4	
Mar	113,1	97,6	103,8	109,4	106,6	105,1	
Apr	112,8	86,6	93,4	93,7	95,4	102,2	
May	115,4	94,2	100,6	101,7	106,8	109,2	
Jun	115,7	94,5	102,9	104,1	104,9	105,4	
Jul	116,0	98,2	105,3	99,0	106,0	112,0	
Aug	115,8	96,3	101,6	107,6	109,9	110,1	
Sep	114,4	99,9	102,2	110,0	107,9	104,4	
Oct	120,8	108,4	110,3	112,6	116,8	118,9	
Nov	113,7	107,9	112,2	116,3	121,1	1/ 121,4	
Dec	86,3	89,2	91,0	93,8	95,3	1/ 98,0	
Year	110,9	95,6	100,0	102,7	105,2	106,7	

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	2,5	3,2	3,7	2,5
Feb	2,5	-16,7	1,2	6,4	4,6	-2,1	
Mar	-2,2	-13,7	6,4	5,4	-2,6	-1,4	
Apr	9,9	-23,2	7,9	0,3	1,8	7,1	
May	0,3	-18,4	6,8	1,1	5,0	2,2	
Jun	4,5	-18,3	8,9	1,2	0,8	0,5	
Jul	2,6	-15,3	7,2	-6,0	7,1	5,7	
Aug	-0,3	-16,8	5,5	5,9	2,1	0,2	
Sep	3,9	-12,7	2,3	7,6	-1,9	-3,2	
Oct	-4,1	-10,3	1,8	2,1	3,7	1,8	
Nov	-9,7	-5,1	4,0	3,7	4,1	0,2	
Dec	-11,2	3,4	2,0	3,1	1,6	2,8	
Year	-0,4	-13,8	4,6	2,7	2,4	1,4	

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: 2008 – 2014

Base: 2010=100

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

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

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average for 2013	Actual indices			Seasonally adjusted indices		
			January 2013	1/ December 2013	1/ January 2014	January 2013	December 2013	January 2014
Food and beverages	22,1	108,0	94,2	118,3	98,4	108,5	109,0	113,1
-Meat, fish, fruit, etc.	4,4	109,5	87,5	121,1	97,3	105,3	112,7	117,3
-Dairy products	2,2	106,0	103,6	117,2	110,0	105,5	106,5	112,2
-Grain mill products	2,7	107,5	98,1	109,5	102,9	106,1	111,0	111,0
-Other food products	6,4	105,0	80,0	88,1	82,1	107,5	102,9	109,7
-Beverages	6,4	111,0	107,8	150,4	109,2	113,9	112,6	114,8
Textiles, clothing, leather and footwear	3,5	97,3	69,0	71,5	72,5	94,9	94,8	99,7
-Textiles	0,7	82,9	68,6	52,9	69,6	86,0	78,7	86,6
-Other textile products	0,4	95,0	65,0	70,5	72,3	83,6	95,3	93,2
-Knitted, crocheted articles	0,1	65,9	45,9	45,1	41,2	65,0	61,0	58,6
-Wearing apparel	1,6	101,1	69,5	75,4	70,2	99,8	95,3	101,1
-Leather and leather products	0,2	120,3	97,5	117,6	117,0	114,7	136,4	137,6
-Footwear	0,5	101,5	62,0	68,9	68,9	97,1	100,9	108,2
Wood and wood products, paper, publishing and printing	9,3	103,7	93,5	96,2	88,5	103,7	103,9	98,3
-Sawmilling and planing of wood	0,8	108,4	89,1	87,4	93,0	103,2	113,0	108,2
-Products of wood	1,7	98,7	82,9	68,2	83,5	99,4	81,6	100,5
-Paper and paper products	3,2	100,0	88,7	102,4	91,5	97,8	100,7	100,8
-Publishing	1,4	116,5	102,6	112,2	90,5	109,3	113,6	96,4
-Printing, recorded media	2,2	102,6	104,2	101,0	84,9	112,0	115,6	90,7
Petroleum, chemical products, rubber and plastic products	25,1	108,5	101,5	106,4	104,6	112,0	115,2	115,2
-Coke, petroleum products and nuclear fuel	8,0	101,9	111,4	114,7	109,9	114,1	113,8	112,1
-Basic chemicals	5,8	109,4	98,6	117,2	107,9	105,6	124,1	115,5
-Other chemical products	7,4	114,4	98,1	99,8	100,3	116,5	111,5	118,9
-Rubber products	1,2	113,0	98,9	72,8	105,7	110,7	113,1	117,8
-Plastic products	2,7	107,4	89,5	91,6	93,1	108,1	110,9	112,7
Glass and non-metallic mineral products	4,9	105,5	85,2	80,2	80,5	106,8	99,4	100,9
-Glass and glass products	0,8	105,3	93,7	93,3	79,6	105,9	99,1	90,0
-Non-metallic mineral products	4,1	105,6	83,6	77,7	80,7	107,0	99,5	103,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	106,1	87,9	88,8	89,9	101,2	106,0	103,6
-Basic iron and steel products	4,4	94,8	91,7	80,5	94,1	93,2	92,8	95,1
-Non-ferrous metal products	3,5	108,4	103,4	95,7	106,6	104,8	100,9	107,7
-Structural metal products	1,9	88,8	73,5	68,9	71,5	92,7	90,2	90,1
-Other fabricated metal products	3,8	119,5	93,1	95,3	92,1	114,1	133,2	113,0
-General purpose machinery	2,3	100,4	79,7	83,3	70,2	97,2	92,0	86,1
-Special purpose machinery	3,5	114,4	73,1	100,5	83,8	97,9	112,4	113,2
-Household appliances	0,9	113,6	97,3	85,2	110,3	111,9	117,9	126,6
Electrical machinery	2,4	104,5	73,9	73,0	81,6	98,2	98,2	108,7
Radio, television and communication apparatus and professional equipment	1,3	126,2	95,9	123,7	115,0	119,0	142,5	141,4
-Radio, television and communication apparatus	0,8	141,2	108,5	136,7	140,6	129,4	162,1	166,5
-Professional equipment	0,5	105,0	78,1	105,2	78,7	104,4	114,8	105,9
Motor vehicles, parts and accessories and other transport equipment	7,9	108,6	96,3	74,7	98,7	113,8	116,0	116,9
-Motor vehicles	3,2	124,6	109,0	78,1	116,5	133,8	139,8	143,3
-Bodies for motor vehicles, trailers and semi-trailers	0,6	111,2	73,7	70,5	79,3	104,7	104,8	112,1
-Parts and accessories	2,9	94,8	92,9	60,1	87,0	101,9	90,0	95,0
-Other transport equipment	1,2	96,8	81,8	103,9	89,0	92,7	121,1	101,1
Furniture and other manufacturing division	3,2	95,8	81,9	76,9	85,3	96,3	98,0	100,9
-Furniture	0,9	110,6	67,2	87,4	71,9	99,9	106,9	107,1
-Other manufacturing groups	2,3	89,6	88,0	72,4	90,9	94,8	94,3	98,3
Total	100,0	106,7	92,7	98,0	95,0	106,8	108,9	109,4

1/ Preliminary.

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

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average for 2013	Actual indices			Seasonally adjusted indices		
			January 2013	1/ January 2014	% change between January 2013 and January 2014	December 2013	January 2014	% change between December 2013 and January 2014
Food and beverages	22,1	108,0	94,2	98,4	4,5	109,0	113,1	3,8
-Meat, fish, fruit, etc.	4,4	109,5	87,5	97,3	11,2	112,7	117,3	4,1
-Dairy products	2,2	106,0	103,6	110,0	6,2	106,5	112,2	5,4
-Grain mill products	2,7	107,5	98,1	102,9	4,9	111,0	111,0	0,0
-Other food products	6,4	105,0	80,0	82,1	2,6	102,9	109,7	6,6
-Beverages	6,4	111,0	107,8	109,2	1,3	112,6	114,8	2,0
Textiles, clothing, leather and footwear	3,5	97,3	69,0	72,5	5,1	94,8	99,7	5,2
-Textiles	0,7	82,9	68,6	69,6	1,5	78,7	86,6	10,0
-Other textile products	0,4	95,0	65,0	72,3	11,2	95,3	93,2	-2,2
-Knitted, crocheted articles	0,1	65,9	45,9	41,2	-10,2	61,0	58,6	-3,9
-Wearing apparel	1,6	101,1	69,5	70,2	1,0	95,3	101,1	6,1
-Leather and leather products	0,2	120,3	97,5	117,0	20,0	136,4	137,6	0,9
-Footwear	0,5	101,5	62,0	68,9	11,1	100,9	108,2	7,2
Wood and wood products, paper, publishing and printing	9,3	103,7	93,5	88,5	-5,3	103,9	98,3	-5,4
-Sawmilling and planing of wood	0,8	108,4	89,1	93,0	4,4	113,0	108,2	-4,2
-Products of wood	1,7	98,7	82,9	83,5	0,7	81,6	100,5	23,2
-Paper and paper products	3,2	100,0	88,7	91,5	3,2	100,7	100,8	0,1
-Publishing	1,4	116,5	102,6	90,5	-11,8	113,6	96,4	-15,1
-Printing, recorded media	2,2	102,6	104,2	84,9	-18,5	115,6	90,7	-21,5
Petroleum, chemical products, rubber and plastic products	25,1	108,5	101,5	104,6	3,1	115,2	115,2	0,0
-Coke, petroleum products and nuclear fuel	8,0	101,9	111,4	109,9	-1,3	113,8	112,1	-1,5
-Basic chemicals	5,8	109,4	98,6	107,9	9,4	124,1	115,5	-6,9
-Other chemical products	7,4	114,4	98,1	100,3	2,2	111,5	118,9	6,6
-Rubber products	1,2	113,0	98,9	105,7	6,9	113,1	117,8	4,2
-Plastic products	2,7	107,4	89,5	93,1	4,0	110,9	112,7	1,6
Glass and non-metallic mineral products	4,9	105,5	85,2	80,5	-5,5	99,4	100,9	1,5
-Glass and glass products	0,8	105,3	93,7	79,6	-15,0	99,1	90,0	-9,2
-Non-metallic mineral products	4,1	105,6	83,6	80,7	-3,5	99,5	103,0	3,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	106,1	87,9	89,9	2,3	106,0	103,6	-2,3
-Basic iron and steel products	4,4	94,8	91,7	94,1	2,6	92,8	95,1	2,5
-Non-ferrous metal products	3,5	108,4	103,4	106,6	3,1	100,9	107,7	6,7
-Structural metal products	1,9	88,8	73,5	71,5	-2,7	90,2	90,1	-0,1
-Other fabricated metal products	3,8	119,5	93,1	92,1	-1,1	133,2	113,0	-15,2
-General purpose machinery	2,3	100,4	79,7	70,2	-11,9	92,0	86,1	-6,4
-Special purpose machinery	3,5	114,4	73,1	83,8	14,6	112,4	113,2	0,7
-Household appliances	0,9	113,6	97,3	110,3	13,4	117,9	126,6	7,4
Electrical machinery	2,4	104,5	73,9	81,6	10,4	98,2	108,7	10,7
Radio, television and communication apparatus and professional equipment	1,3	126,2	95,9	115,0	19,9	142,5	141,4	-0,8
-Radio, television and communication apparatus	0,8	141,2	108,5	140,6	29,6	162,1	166,5	2,7
-Professional equipment	0,5	105,0	78,1	78,7	0,8	114,8	105,9	-7,8
Motor vehicles, parts and accessories and other transport equipment	7,9	108,6	96,3	98,7	2,5	116,0	116,9	0,8
-Motor vehicles	3,2	124,6	109,0	116,5	6,9	139,8	143,3	2,5
-Bodies for motor vehicles, trailers and semi-trailers	0,6	111,2	73,7	79,3	7,6	104,8	112,1	7,0
-Parts and accessories	2,9	94,8	92,9	87,0	-6,4	90,0	95,0	5,6
-Other transport equipment	1,2	96,8	81,8	89,0	8,8	121,1	101,1	-16,5
Furniture and other manufacturing division	3,2	95,8	81,9	85,3	4,2	98,0	100,9	3,0
-Furniture	0,9	110,6	67,2	71,9	7,0	106,9	107,1	0,2
-Other manufacturing groups	2,3	89,6	88,0	90,9	3,3	94,3	98,3	4,2
Total	100,0	106,7	92,7	95,0	2,5	108,9	109,4	0,5

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	93 280 502	87 916 275	88 548 858	94 246 456	105 443 384	114 667 597	1/ 128 466 458
Feb	110 769 560	99 565 792	100 040 055	109 522 908	123 677 978	129 430 936	
Mar	117 621 056	107 737 720	113 278 092	123 964 153	130 984 336	135 367 021	
Apr	119 609 521	92 230 272	99 980 962	106 169 292	115 493 885	131 245 797	
May	122 938 629	98 715 959	107 436 033	115 621 248	128 068 083	138 886 360	
Jun	127 601 209	100 377 623	111 752 400	120 091 539	128 588 051	136 903 333	
Jul	131 369 593	102 048 423	110 963 260	110 987 187	125 462 845	143 961 443	
Aug	129 126 848	103 007 029	108 663 903	122 688 235	132 094 313	141 465 771	
Sep	128 633 004	107 188 812	111 184 472	130 818 755	129 532 600	137 779 801	
Oct	135 163 841	112 486 658	119 561 318	131 429 847	141 820 125	153 497 418	
Nov	125 995 637	114 583 579	124 219 561	136 700 911	150 484 487	1/ 159 969 198	
Dec	98 974 837	97 356 722	102 518 765	115 525 999	121 426 485	1/ 138 158 369	
Year	1 441 084 237	1 223 214 864	1 298 147 679	1 417 766 530	1 533 076 572	1 661 333 044	

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

2/ The annual percentage change is the change in the sales of the manufacturing industry of the relevant month of the current year compared with the sales of the corresponding month of the previous year expressed as a percentage.

Table 7 – Total seasonally adjusted sales of the manufacturing industry at current prices (R'000): 2008 – 2014

Month	2008	2009	2010	2011	2012	2013	2014
Jan	111 069 911	105 245 549	105 667 482	111 938 392	123 636 701	134 018 325	149 790 048
Feb	116 288 046	104 246 233	104 290 529	113 982 459	128 928 521	134 607 151	
Mar	113 788 423	103 711 079	108 605 646	118 982 430	126 109 733	130 323 416	
Apr	128 216 869	99 138 740	107 560 540	113 945 969	123 948 218	140 827 167	
May	122 323 916	99 040 660	107 557 189	115 357 335	127 829 059	138 590 157	
Jun	124 677 033	98 593 483	109 745 059	117 965 521	126 563 238	134 902 947	
Jul	128 311 622	100 508 058	109 550 751	109 875 611	124 496 709	143 001 055	
Aug	124 924 665	100 284 606	106 343 577	120 245 453	129 542 701	138 665 336	
Sep	122 226 987	102 153 589	106 246 774	125 687 549	125 110 271	133 494 100	
Oct	122 863 115	102 489 869	109 316 730	120 693 785	130 716 429	141 686 201	
Nov	113 254 509	102 732 767	110 893 718	121 814 880	134 257 082	142 666 587	
Dec	109 219 204	106 623 231	111 922 231	125 626 398	130 963 197	149 045 387	

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		
		January 2013	1/ December 2013	1/ January 2014	January 2013	December 2013	January 2014
Food and beverages	350 811 899	25 531 137	35 855 672	27 464 215	28 965 553	30 845 285	31 105 404
-Meat, fish, fruit, etc.	88 140 744	5 756 706	8 659 122	6 633 439	6 959 908	7 824 534	8 025 532
-Dairy products	30 206 448	2 321 490	2 798 430	2 618 491	2 418 889	2 591 231	2 719 709
-Grain mill products	60 537 832	4 479 223	5 264 302	5 030 122	4 834 316	5 236 154	5 412 824
-Other food products	75 028 380	5 528 339	6 738 596	5 631 166	6 314 616	6 751 162	6 398 169
-Beverages	96 898 495	7 445 379	12 395 222	7 550 997	8 437 824	8 442 203	8 549 170
Textiles, clothing, leather and footwear	43 436 014	2 470 221	3 014 541	2 828 329	3 371 636	3 704 701	3 842 375
-Textiles	5 754 018	370 397	329 282	416 832	469 278	476 834	524 198
-Other textile products	10 522 407	592 676	682 466	689 263	772 830	856 176	896 830
-Knitted, crocheted articles	1 750 289	96 414	111 633	104 073	133 186	148 600	144 015
-Wearing apparel	15 240 500	796 220	1 085 585	891 684	1 207 913	1 239 944	1 355 831
-Leather and leather products	6 350 030	425 734	534 391	520 049	476 367	663 069	581 600
-Footwear	3 818 770	188 780	271 184	206 428	312 061	320 079	339 902
Wood and wood products, paper, publishing and printing	123 684 514	8 799 591	10 133 643	8 999 099	9 935 501	10 699 891	10 183 728
-Sawmilling and planing of wood	9 116 235	567 996	738 900	691 071	668 929	894 819	816 300
-Products of wood	16 089 689	1 075 980	967 058	1 132 672	1 295 197	1 176 582	1 364 980
-Paper and paper products	56 687 553	3 989 999	4 959 362	4 254 452	4 575 651	4 906 658	4 878 450
-Publishing	19 268 722	1 338 666	1 580 022	1 311 592	1 436 555	1 583 210	1 406 471
-Printing, recorded media	22 522 315	1 826 950	1 888 301	1 609 312	1 959 169	2 138 622	1 717 528
Petroleum, chemical products, rubber and plastic products	420 902 960	30 886 143	36 139 257	35 700 652	33 861 225	39 755 233	38 995 604
-Coke, petroleum products and nuclear fuel	180 117 559	14 351 832	17 175 307	16 652 156	14 165 230	18 860 600	16 326 764
-Basic chemicals	85 974 895	5 872 452	7 327 557	7 413 863	6 790 375	7 799 482	8 604 318
-Other chemical products	89 140 570	6 129 275	6 914 240	6 630 591	7 461 754	7 326 664	8 055 572
-Rubber products	15 681 997	1 170 035	1 053 700	1 244 263	1 373 415	1 376 062	1 451 595
-Plastic products	49 987 939	3 362 549	3 668 453	3 759 779	4 070 451	4 392 424	4 557 355
Glass and non-metallic mineral products	51 542 998	3 205 423	3 189 467	3 349 861	4 128 322	4 107 520	4 310 069
-Glass and glass products	8 991 034	626 772	655 709	595 028	753 304	695 519	713 170
-Non-metallic mineral products	42 551 964	2 578 651	2 533 758	2 754 833	3 375 019	3 412 001	3 596 899
Basic iron and steel, non-ferrous metal products, metal products and machinery	358 887 131	23 609 101	26 101 485	27 151 885	27 938 748	31 001 016	31 970 228
-Basic iron and steel products	103 491 851	7 673 264	7 176 459	9 515 528	8 248 105	9 217 681	10 186 682
-Non-ferrous metal products	72 703 638	4 919 329	6 119 628	5 708 417	5 623 952	6 286 784	6 515 378
-Structural metal products	31 072 961	2 059 918	2 044 930	2 096 779	2 648 248	2 657 777	2 687 898
-Other fabricated metal products	61 642 941	3 895 247	4 006 750	4 021 752	4 908 098	5 325 124	5 072 134
-General purpose machinery	32 921 383	2 075 376	2 450 826	2 028 005	2 663 820	2 718 053	2 623 650
-Special purpose machinery	45 845 173	2 234 674	3 580 672	2 883 225	2 956 464	3 846 925	3 821 830
-Household appliances	11 209 184	751 293	722 220	898 179	890 062	948 671	1 062 655
Electrical machinery	46 786 747	2 649 487	3 031 863	3 064 040	3 600 558	3 991 899	4 160 676
Radio, television and communication apparatus and professional equipment	18 883 834	1 081 740	1 687 982	1 382 277	1 452 988	1 808 536	1 859 386
-Radio, television and communication apparatus	9 539 664	526 066	843 127	780 057	712 360	935 151	1 052 352
-Professional equipment	9 344 170	555 674	844 855	602 220	740 628	873 385	807 034
Motor vehicles, parts and accessories and other transport equipment	192 432 118	13 166 035	14 813 943	14 922 344	16 588 329	18 552 039	18 770 635
-Motor vehicles	105 769 297	6 970 998	9 015 121	7 698 616	9 584 392	10 603 402	10 604 351
-Bodies for motor vehicles, trailers and semi-trailers	7 822 903	377 152	446 205	465 256	575 232	577 946	709 168
-Parts and accessories	59 922 039	4 522 092	3 521 607	5 249 539	4 962 121	5 247 996	5 748 428
-Other transport equipment	18 917 879	1 295 793	1 831 010	1 508 933	1 466 584	2 122 696	1 708 687
Furniture and other manufacturing division	53 964 829	3 268 719	4 190 516	3 603 756	4 175 464	4 579 266	4 591 943
-Furniture	13 442 912	671 736	929 115	742 130	1 009 576	1 097 589	1 117 476
-Other manufacturing groups	40 521 917	2 596 983	3 261 401	2 861 626	3 165 889	3 481 677	3 474 468
Total	1 661 333 044	114 667 597	138 158 369	128 466 458	134 018 325	149 045 387	149 790 048

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		
		January 2013	1/ January 2014	% change between January 2013 and January 2014	December 2013	January 2014	% change between December 2013 and January 2014
Food and beverages	350 811 899	25 531 137	27 464 215	7,6	30 845 285	31 105 404	0,8
-Meat, fish, fruit, etc.	88 140 744	5 756 706	6 633 439	15,2	7 824 534	8 025 532	2,6
-Dairy products	30 206 448	2 321 490	2 618 491	12,8	2 591 231	2 719 709	5,0
-Grain mill products	60 537 832	4 479 223	5 030 122	12,3	5 236 154	5 412 824	3,4
-Other food products	75 028 380	5 528 339	5 631 166	1,9	6 751 162	6 398 169	-5,2
-Beverages	96 898 495	7 445 379	7 550 997	1,4	8 442 203	8 549 170	1,3
Textiles, clothing, leather and footwear	43 436 014	2 470 221	2 828 329	14,5	3 704 701	3 842 375	3,7
-Textiles	5 754 018	370 397	416 832	12,5	476 834	524 198	9,9
-Other textile products	10 522 407	592 676	689 263	16,3	856 176	896 830	4,7
-Knitted, crocheted articles	1 750 289	96 414	104 073	7,9	148 600	144 015	-3,1
-Wearing apparel	15 240 500	796 220	891 684	12,0	1 239 944	1 355 831	9,3
-Leather and leather products	6 350 030	425 734	520 049	22,2	663 069	581 600	-12,3
-Footwear	3 818 770	188 780	206 428	9,3	320 079	339 902	6,2
Wood and wood products, paper, publishing and printing	123 684 514	8 799 591	8 999 099	2,3	10 699 891	10 183 728	-4,8
-Sawmilling and planing of wood	9 116 235	567 996	691 071	21,7	894 819	816 300	-8,8
-Products of wood	16 089 689	1 075 980	1 132 672	5,3	1 176 582	1 364 980	16,0
-Paper and paper products	56 687 553	3 989 999	4 254 452	6,6	4 906 658	4 878 450	-0,6
-Publishing	19 268 722	1 338 666	1 311 592	-2,0	1 583 210	1 406 471	-11,2
-Printing, recorded media	22 522 315	1 826 950	1 609 312	-11,9	2 138 622	1 717 528	-19,7
Petroleum, chemical products, rubber and plastic products	420 902 960	30 886 143	35 700 652	15,6	39 755 233	38 995 604	-1,9
-Coke, petroleum products and nuclear fuel	180 117 559	14 351 832	16 652 156	16,0	18 860 600	16 326 764	-13,4
-Basic chemicals	85 974 895	5 872 452	7 413 863	26,2	7 799 482	8 604 318	10,3
-Other chemical products	89 140 570	6 129 275	6 630 591	8,2	7 326 664	8 055 572	9,9
-Rubber products	15 681 997	1 170 035	1 244 263	6,3	1 376 062	1 451 595	5,5
-Plastic products	49 987 939	3 362 549	3 759 779	11,8	4 392 424	4 557 355	3,8
Glass and non-metallic mineral products	51 542 998	3 205 423	3 349 861	4,5	4 107 520	4 310 069	4,9
-Glass and glass products	8 991 034	626 772	595 028	-5,1	695 519	713 170	2,5
-Non-metallic mineral products	42 551 964	2 578 651	2 754 833	6,8	3 412 001	3 596 899	5,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	358 887 131	23 609 101	27 151 885	15,0	31 001 016	31 970 228	3,1
-Basic iron and steel products	103 491 851	7 673 264	9 515 528	24,0	9 217 681	10 186 682	10,5
-Non-ferrous metal products	72 703 638	4 919 329	5 708 417	16,0	6 286 784	6 515 378	3,6
-Structural metal products	31 072 961	2 059 918	2 096 779	1,8	2 657 777	2 687 898	1,1
-Other fabricated metal products	61 642 941	3 895 247	4 021 752	3,2	5 325 124	5 072 134	-4,8
-General purpose machinery	32 921 383	2 075 376	2 028 005	-2,3	2 718 053	2 623 650	-3,5
-Special purpose machinery	45 845 173	2 234 674	2 883 225	29,0	3 846 925	3 821 830	-0,7
-Household appliances	11 209 184	751 293	898 179	19,6	948 671	1 062 655	12,0
Electrical machinery	46 786 747	2 649 487	3 064 040	15,6	3 991 899	4 160 676	4,2
Radio, television and communication apparatus and professional equipment	18 883 834	1 081 740	1 382 277	27,8	1 808 536	1 859 386	2,8
-Radio, television and communication apparatus	9 539 664	526 066	780 057	48,3	935 151	1 052 352	12,5
-Professional equipment	9 344 170	555 674	602 220	8,4	873 385	807 034	-7,6
Motor vehicles, parts and accessories and other transport equipment	192 432 118	13 166 035	14 922 344	13,3	18 552 039	18 770 635	1,2
-Motor vehicles	105 769 297	6 970 998	7 698 616	10,4	10 603 402	10 604 351	-0,0
-Bodies for motor vehicles, trailers and semi-trailers	7 822 903	377 152	465 256	23,4	577 946	709 168	22,7
-Parts and accessories	59 922 039	4 522 092	5 249 539	16,1	5 247 996	5 748 428	9,5
-Other transport equipment	18 917 879	1 295 793	1 508 933	16,4	2 122 696	1 708 687	-19,5
Furniture and other manufacturing division	53 964 829	3 268 719	3 603 756	10,2	4 579 266	4 591 943	0,3
-Furniture	13 442 912	671 736	742 130	10,5	1 097 589	1 117 476	1,8
-Other manufacturing groups	40 521 917	2 596 983	2 861 626	10,2	3 481 677	3 474 468	-0,2
Total	1 661 333 044	114 667 597	128 466 458	12,0	149 045 387	149 790 048	0,5

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)		
		Nov. 2012 to Jan. 2013	Nov. 2013 to Jan. 2014	% change between Nov. 2012 to Jan. 2013 and Nov. 2013 to Jan. 2014	Nov. 2012 to Jan. 2013	Nov. 2013 to Jan. 2014	% change between Nov. 2012 to Jan. 2013 and Nov. 2013 to Jan. 2014
Food and beverages	22,1	108,1	112,5	4,1	89 582 256	96 840 289	8,1
-Meat, fish, fruit, etc.	4,4	103,2	114,1	10,6	20 811 442	23 875 640	14,7
-Dairy products	2,2	112,5	112,9	0,4	7 472 549	8 108 726	8,5
-Grain mill products	2,7	105,5	109,4	3,7	14 730 918	15 745 724	6,9
-Other food products	6,4	91,4	94,9	3,8	18 627 070	19 878 691	6,7
-Beverages	6,4	127,7	130,2	2,0	27 940 277	29 231 508	4,6
Textiles, clothing, leather and footwear	3,5	85,2	87,9	3,2	9 532 150	10 417 795	9,3
-Textiles	0,7	71,8	70,9	-1,3	1 189 802	1 300 961	9,3
-Other textile products	0,4	83,5	86,4	3,5	2 281 291	2 456 521	7,7
-Knitted, crocheted articles	0,1	59,3	53,5	-9,8	378 149	390 181	3,2
-Wearing apparel	1,6	92,0	90,7	-1,4	3 394 429	3 636 874	7,1
-Leather and leather products	0,2	102,8	127,7	24,2	1 391 391	1 695 699	21,9
-Footwear	0,5	79,6	91,5	14,9	897 088	937 559	4,5
Wood and wood products, paper, publishing and printing	9,3	104,5	100,4	-3,9	30 012 629	30 883 306	2,9
-Sawmilling and planing of wood	0,8	96,9	102,7	6,0	1 948 961	2 300 300	18,0
-Products of wood	1,7	96,0	88,5	-7,8	3 798 397	3 692 863	-2,8
-Paper and paper products	3,2	100,5	100,8	0,3	13 633 913	14 447 925	6,0
-Publishing	1,4	121,5	112,3	-7,6	4 875 936	4 791 812	-1,7
-Printing, recorded media	2,2	108,4	100,0	-7,7	5 755 422	5 650 406	-1,8
Petroleum, chemical products, rubber and plastic products	25,1	109,7	111,0	1,2	99 038 340	111 642 711	12,7
-Coke, petroleum products and nuclear fuel	8,0	111,4	110,5	-0,8	42 528 338	49 374 541	16,1
-Basic chemicals	5,8	112,4	118,4	5,3	20 448 388	23 843 833	16,6
-Other chemical products	7,4	110,6	109,9	-0,6	20 987 138	22 163 189	5,6
-Rubber products	1,2	96,2	100,9	4,9	3 504 544	3 785 056	8,0
-Plastic products	2,7	103,3	104,0	0,7	11 569 932	12 476 092	7,8
Glass and non-metallic mineral products	4,9	95,5	93,6	-2,0	11 149 987	11 638 540	4,4
-Glass and glass products	0,8	107,4	95,7	-10,9	2 225 536	2 169 357	-2,5
-Non-metallic mineral products	4,1	93,2	93,2	0,0	8 924 451	9 469 183	6,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	97,3	98,3	1,0	79 378 652	87 730 156	10,5
-Basic iron and steel products	4,4	88,1	90,0	2,2	22 714 205	26 062 609	14,7
-Non-ferrous metal products	3,5	102,7	102,1	-0,6	16 651 316	18 717 791	12,4
-Structural metal products	1,9	81,7	83,3	2,0	7 159 994	7 411 012	3,5
-Other fabricated metal products	3,8	102,6	110,1	7,3	13 241 764	14 251 051	7,6
-General purpose machinery	2,3	101,8	86,7	-14,8	7 746 444	7 529 400	-2,8
-Special purpose machinery	3,5	101,5	105,4	3,8	9 467 800	11 029 451	16,5
-Household appliances	0,9	103,2	109,9	6,5	2 397 129	2 728 842	13,8
Electrical machinery	2,4	86,4	91,3	5,7	9 198 262	10 657 102	15,9
Radio, television and communication apparatus and professional equipment	1,3	118,5	132,0	11,4	4 252 084	4 977 050	17,0
-Radio, television and communication apparatus	0,8	135,7	154,4	13,8	2 165 060	2 666 849	23,2
-Professional equipment	0,5	94,2	100,2	6,4	2 087 024	2 310 201	10,7
Motor vehicles, parts and accessories and other transport equipment	7,9	98,4	102,8	4,5	42 194 889	48 957 529	16,0
-Motor vehicles	3,2	108,1	121,6	12,5	22 687 995	27 667 515	21,9
-Bodies for motor vehicles, trailers and semi-trailers	0,6	94,6	95,3	0,7	1 557 529	1 728 319	11,0
-Parts and accessories	2,9	91,5	84,4	-7,8	13 645 433	14 529 034	6,5
-Other transport equipment	1,2	90,8	100,5	10,7	4 303 932	5 032 661	16,9
Furniture and other manufacturing division	3,2	95,4	95,0	-0,4	12 239 320	12 849 547	5,0
-Furniture	0,9	101,3	105,6	4,2	3 114 870	3 275 717	5,2
-Other manufacturing groups	2,3	92,9	90,6	-2,5	9 124 450	9 573 830	4,9
Total	100,0	103,0	104,8	1,7	386 578 569	426 594 025	10,4

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 January 2014 was 89,1%. Improved collection rate for December 2013 was 92,3%.
- 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 2014, 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 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.
 - *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 |
- Changes in forthcoming issue** 25 For the February 2014 release (published in April 2014), 2011 weights based on the 2011 national accounts value added weights will be applied starting from January 2011 in order to obtain division and total manufacturing indices. Currently, the weights are based on the 2010 national accounts value added weights.

Technical notes

26 Neyman optimal allocation

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

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

N_h and S_h are the stratum population size and the stratum variance respectively.

Class limits: Manufacturing (Rand)

Enterprise size	Lower limits	Upper limits
Very small	0	15 000 000
Small	15 000 001	39 000 000
Medium	39 000 001	153 000 000
Large	153 000 001	

Glossary

Enterprise	An enterprise is a legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.
Index of physical volume of manufacturing production	The index of physical volume of manufacturing production, also known as a production index, is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 2010. The production in the base period is set at 100.
Industry	An industry consists of a group of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the <i>System of National Accounts</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. <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 - 2014
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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Enquiries

Telephone number:	(012) 310 8249 (technical enquiries) (012) 310 8358 (orders) (012) 310 4883/4885/8018 (library)
Fax number:	(012) 310 8664 (technical enquiries)
Email address:	gerdab@statssa.gov.za (technical enquiries) info@statssa.gov.za (user information services) magdaj@statssa.gov.za (orders)
Postal address:	Private Bag X44, Pretoria, 0001

Produced by Stats SA