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Manufacturing: Production and sales (Preliminary)

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Contents

Key figures for July 2013	2
Table A – Manufacturing production and sales	2
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production.....	3
Figure 1 – Index of the physical volume of manufacturing production: 2006 – 2013	4
Table C – Contribution of manufacturing divisions and major groups to the three-monthly total seasonally adjusted sales of the manufacturing industry at current prices	5
Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2013.....	6
Note: Changes to the monthly current indicator survey and the impact on the statistical series	7
Detailed results	9
Table 1 – Total index of the physical volume of manufacturing production: 2007 – 2013	9
Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2007 – 2013.....	9
Table 3 – Seasonally adjusted index of the total physical volume of manufacturing production: 2007 – 2013.....	9
Table 4a – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups.....	10
Table 4b – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups (concluded).....	11
Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2007 – 2013.....	12
Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2007 – 2013	12
Table 7 – Total seasonally adjusted sales of the manufacturing industry at current prices (R'000): 2007 – 2013.....	12
Table 8a – Estimated sales of the manufacturing industry at current prices according to manufacturing divisions and major groups (R'000)	13
Table 8b – Estimated sales of the manufacturing industry at current prices according to manufacturing divisions and major groups (R'000) (concluded)	14
Table 9 – Annual percentage change in the three-monthly physical volume of manufacturing production and estimated sales according to manufacturing divisions and major groups	15
Explanatory notes.....	16
Glossary.....	20
Table F – Weights according to manufacturing divisions and major groups	22
General information.....	23

Key figures for July 2013

Table A – Manufacturing production and sales

Estimates	July 2013	% change between July 2012 and July 2013	% change between May to July 2012 and May to July 2013	% change between January to July 2012 and January to July 2013
Physical volume of manufacturing production index (base: 2010=100)	111,7	5,4	2,7	2,1
Total estimated sales of manufactured products (R million)	143 630	14,5	9,7	8,4

Seasonally adjusted estimates	July 2013	% change between June and July 2013	% change between February to April 2013 and May to July 2013
Physical volume of manufacturing production index (base: 2010=100)	110,4	5,0	2,2
Total value of sales of manufactured products (R million)	143 330	5,9	3,0

Manufacturing production increased by 5,4% in July 2013 compared with July 2012.

The 5,4% year-on-year increase in manufacturing production in July 2013 was mainly due to higher production in the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (7,9% and contributing 1,6 percentage points);
- food and beverages (6,1% and contributing 1,3 percentage points);
- petroleum, chemical products, rubber and plastic products (3,9% and contributing 1,0 percentage point);
- motor vehicles, parts and accessories and other transport equipment (9,9% and contributing 0,9 of a percentage point);
- wood and wood products, paper, publishing and printing (5,6% and contributing 0,5 of a percentage point); and
- glass and non-metallic mineral products (7,2% and contributing 0,4 of a percentage point) (see Table 4b).

Seasonally adjusted manufacturing production for the three months ended July 2013 increased by 2,2% 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 2,2% were made by the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (6,4% and contributing 1,3 percentage points);
- food and beverages (2,2% and contributing 0,5 of a percentage point);
- motor vehicles, parts and accessories and other transport equipment (3,4% and contributing 0,3 of a percentage point);
- glass and non-metallic mineral products (3,9% and contributing 0,2 of a percentage point); and
- wood and wood products, paper, publishing and printing (1,8% and contributing 0,2 of a percentage point) (see Table B).

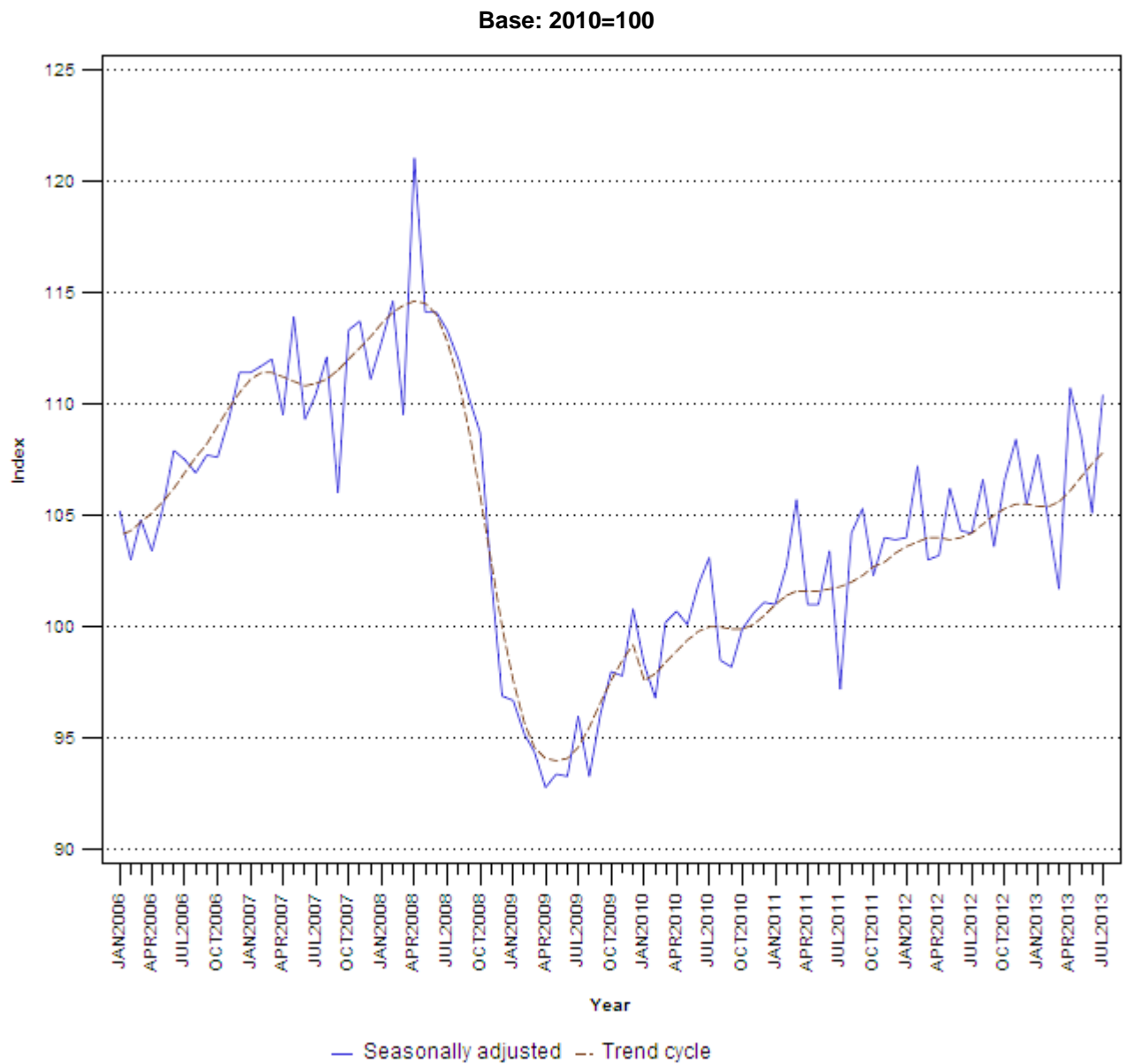
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average seasonally adjusted production index for February to April 2013	Average seasonally adjusted production index for May to July 2013	Quarterly % change of May to July 2013 compared with the preceding three months	Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/
Food and beverages	22,1	106,8	109,1	2,2	0,5
-Meat, fish, fruit, etc.	4,4	107,2	110,8	3,4	0,1
-Dairy products	2,2	107,9	109,0	1,0	0,0
-Grain mill products	2,7	108,0	108,5	0,5	0,0
-Other food products	6,4	105,3	105,0	-0,3	0,0
-Beverages	6,4	107,1	112,4	4,9	0,3
Textiles, clothing, leather and footwear	3,5	97,9	99,8	1,9	0,1
-Textiles	1,1	88,6	90,5	2,1	0,0
-Wearing apparel	1,7	102,0	102,2	0,2	0,0
-Leather and leather products	0,2	104,8	119,9	14,4	0,0
-Footwear	0,5	101,9	103,8	1,9	0,0
Wood and wood products, paper, publishing and printing	9,3	100,1	101,9	1,8	0,2
-Wood and products of wood	2,5	101,0	102,5	1,5	0,0
-Paper and paper products	3,2	97,0	100,7	3,8	0,1
-Publishing and printing	3,6	102,2	102,4	0,2	0,0
Petroleum, chemical products, rubber and plastic products	25,1	106,2	105,6	-0,6	-0,1
-Coke, petroleum products and nuclear fuel	8,0	95,2	88,8	-6,7	-0,5
-Basic chemicals	5,8	107,6	114,5	6,4	0,4
-Other chemical products	7,4	114,3	113,1	-1,0	-0,1
-Rubber products	1,2	116,7	122,7	5,1	0,1
-Plastic products	2,7	108,4	108,5	0,1	0,0
Glass and non-metallic mineral products	4,9	104,8	108,9	3,9	0,2
-Glass and glass products	0,8	105,6	114,3	8,2	0,1
-Non-metallic mineral products	4,1	104,7	107,8	3,0	0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	104,0	110,7	6,4	1,3
-Basic iron and steel products	4,4	84,2	106,7	26,7	0,9
-Basic precious, non-ferrous metal products	3,5	109,9	113,6	3,4	0,1
-Fabricated metal products	5,7	105,0	106,1	1,0	0,1
-Machinery and equipment	6,7	113,0	115,7	2,4	0,2
Electrical machinery	2,4	103,8	102,8	-1,0	0,0
Radio, television and communication apparatus and professional equipment	1,3	125,6	118,3	-5,8	-0,1
-Radio, television and communication apparatus	0,8	138,2	130,2	-5,8	-0,1
-Professional equipment	0,5	107,7	101,5	-5,8	0,0
Motor vehicles, parts and accessories and other transport equipment	7,9	117,2	121,2	3,4	0,3
-Motor vehicles	3,2	142,0	145,6	2,5	0,1
-Bodies for motor vehicles, trailers and semi-trailers	0,6	104,2	114,7	10,1	0,1
-Parts and accessories	2,9	100,4	105,0	4,6	0,1
-Other transport equipment	1,2	97,6	97,4	-0,2	0,0
Furniture and other manufacturing division	3,2	95,0	94,0	-1,1	0,0
-Furniture	0,9	108,2	108,3	0,1	0,0
-Other manufacturing groups	2,3	89,5	88,0	-1,7	0,0
Total	100,0	105,7	108,0	2,2	2,2

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

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



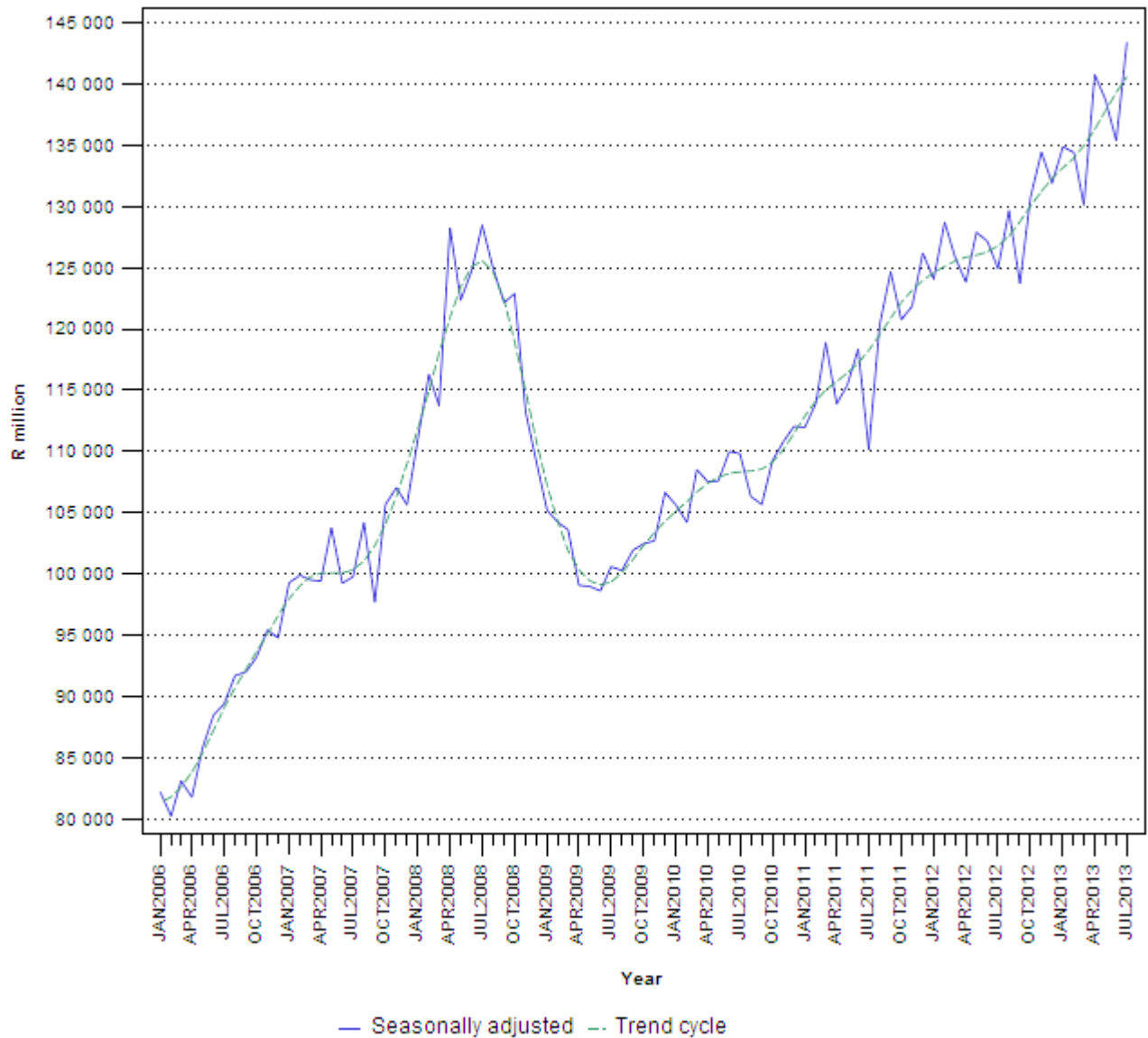
Seasonally adjusted sales of manufactured products (at current prices) for the three months ended July 2013 increased by 3,0% (R12 179 million) compared with the previous three months. All manufacturing divisions reported positive growth rates over this period.

The manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were petroleum, chemical products, rubber and plastic products (3,9% or R3 957 million); basic iron and steel, non-ferrous metal products, metal products and machinery (3,4% or R3 003 million) and food and beverages (3,1% or R2 674 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 February to April 2013	Seasonally adjusted sales May to July 2013	% change between February to April 2013 and May to July 2013	Difference in seasonally adjusted sales of manufacturing divisions between February to April 2013 and May to July 2013
	R'000	R'000	%	R'000
Food and beverages	84 978 359	87 652 531	3,1	2 674 172
-Food and food products	62 043 823	63 374 229	2,1	1 330 406
-Beverages	22 934 535	24 278 302	5,9	1 343 767
Textiles, clothing, leather and footwear	10 679 431	10 995 060	3,0	315 629
-Textiles	4 064 190	4 194 175	3,2	129 985
-Wearing apparel	4 223 114	4 294 341	1,7	71 227
-Leather and leather products	1 427 265	1 563 807	9,6	136 542
-Footwear	964 863	942 739	-2,3	-22 124
Wood and wood products, paper, publishing and printing	29 546 515	29 964 367	1,4	417 852
-Wood and products of wood	6 106 364	6 294 295	3,1	187 931
-Paper and paper products	13 737 585	13 906 703	1,2	169 118
-Publishing and printing	9 702 565	9 763 369	0,6	60 804
Petroleum, chemical products, rubber and plastic products	100 681 318	104 638 398	3,9	3 957 080
-Coke, petroleum products and nuclear fuel	41 809 455	44 011 875	5,3	2 202 420
-Basic chemicals	20 475 575	22 081 658	7,8	1 606 083
-Other chemical products	22 137 815	21 725 441	-1,9	-412 374
-Rubber products	3 995 715	4 214 088	5,5	218 373
-Plastic products	12 262 758	12 605 335	2,8	342 577
Glass and non-metallic mineral products	12 722 582	13 450 651	5,7	728 069
-Glass and glass products	2 190 849	2 464 118	12,5	273 269
-Non-metallic mineral products	10 531 733	10 986 534	4,3	454 801
Basic iron and steel, non-ferrous metal products, metal products and machinery	87 855 939	90 859 374	3,4	3 003 435
-Basic iron and steel products	25 218 039	26 293 193	4,3	1 075 154
-Basic precious, non-ferrous metal products	17 123 067	18 806 107	9,8	1 683 040
-Fabricated metal products	22 915 162	22 527 524	-1,7	-387 638
-Machinery and equipment	22 599 672	23 232 549	2,8	632 877
Electrical machinery	11 173 180	11 285 824	1,0	112 644
Radio, television and communication apparatus and professional equipment	4 390 276	4 553 134	3,7	162 858
-Radio, television and communication apparatus	2 148 539	2 281 122	6,2	132 583
-Professional equipment	2 241 737	2 272 011	1,4	30 274
Motor vehicles, parts and accessories and other transport equipment	49 828 777	50 194 386	0,7	365 609
-Motor vehicles, trailers, parts and accessories	45 120 811	45 452 902	0,7	332 091
-Other transport equipment	4 707 967	4 741 484	0,7	33 517
Furniture and other manufacturing division	13 280 054	13 721 728	3,3	441 674
-Furniture	3 273 503	3 283 611	0,3	10 108
-Other manufacturing groups	10 006 552	10 438 117	4,3	431 565
Total	405 136 431	417 315 453	3,0	12 179 022

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



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Statistician-General

Note: Changes to the monthly current indicator survey and the impact on the statistical series

Business register and samples

Today Statistics South Africa (Stats SA) publishes results for the monthly survey of manufacturing production and sales from a new sample drawn in April 2013, which replaces the previous sample that was drawn in April 2012. The sample was drawn from a business register of enterprises with an annual turnover of at least R1 494 048 and that are required to register with the South African Revenue Service (SARS) for value added tax.

Owing to the evolving nature of business, the business register is maintained on a continuous basis. The maintenance process is aimed, amongst other things, at capturing changes related to new businesses, ceased businesses, merged businesses and classification changes. In addition, Stats SA undertakes quality improvement surveys related to the business register, the primary objective of which is to capture up-to-date information about the structures and activities of large and complex businesses. This process enables Stats SA to review classification codes for these businesses. These changes are an essential part of the statistical architecture.

Comparison of total sales between the previous and new samples of the manufacturing industry

The reported level of total sales for the monthly survey of the manufacturing industry for the months April to June 2013 based on the new sample was 0,6% higher than the level of total sales recorded for the previous sample (see Table D and Figure A). The previous sample was drawn in April 2012 and was operational for the last half of 2012 and the first half of 2013.

Table D - Total sales for previous and new samples for the manufacturing industry – April to June 2013

Manufacturing industry	Previous sample (R million)	New sample (R million)	Difference	
			(R million)	(%)
	404 249	406 741	2 492	0,6

Figure A – Total value of sales of manufactured products: monthly levels of previous and new samples for April to June 2013



Comparison of sales between the previous and new samples by division

The differences in sales between the previous and new samples by manufacturing division are shown in Table E.

Table E - Manufacturing sales for previous and new samples by division: April to June 2013

Manufacturing divisions	Previous sample (R million)	New sample (R million)	Difference	
			(R million)	(%) ^{1/}
Food and beverages	78 383	82 189	3 807	4,9
Textiles, clothing, leather and footwear	10 824	10 973	150	1,4
Wood and wood products, paper, publishing and printing	29 080	28 512	-568	-2,0
Petroleum, chemical products, rubber and plastic products	102 170	103 424	1 254	1,2
Glass and non-metallic mineral products	12 993	12 962	-31	-0,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	88 187	89 742	1 555	1,8
Electrical machinery	11 853	11 277	-576	-4,9
Radio, television and communication apparatus and professional equipment	3 872	4 378	507	13,1
Motor vehicles, parts and accessories and other transport equipment	50 917	49 776	-1 141	-2,2
Furniture and other manufacturing divisions	15 971	13 507	-2 464	-15,4
Total manufacturing	404 249	406 741	2 492	0,6

1/ The percentage difference is the difference between the April to June 2013 sales as recorded in the new sample divided by the April to June 2013 sales as recorded in the previous sample, expressed as a percentage.

The largest percentage differences were in the following manufacturing divisions:

- radio, television and communication apparatus and professional equipment (13,1% or R507 million higher in the new sample);
- food and beverages (4,9% or R3 807 million higher in the new sample);
- furniture and 'other' manufacturing (-15,4% or R2 464 million lower in the new sample); and
- electrical machinery (-4,9% or R576 million lower in the new sample).

Backcasting

In order to assist users of time series, the levels from the new sample for the survey have been adjusted back to the start of 1998, using the level for April 2013 as the end point for the backcast series.

Detailed results

Table 1 – Total index of the physical volume of manufacturing production: 2007 – 2013

Base: 2010=100

Month	2007	2008	2009	2010	2011	2012	2013
Jan	96,4	97,1	82,7	84,5	86,6	89,4	92,7
Feb	106,7	109,4	91,1	92,2	98,1	102,6	100,4
Mar	115,6	113,1	97,6	103,8	109,4	106,6	105,1
Apr	102,6	112,8	86,6	93,4	93,7	95,4	102,2
May	115,1	115,4	94,2	100,6	101,7	106,8	1/ 109,2
Jun	110,7	115,7	94,5	102,9	104,1	104,9	1/ 105,4
Jul	113,1	116,0	98,2	105,3	99,0	106,0	1/ 111,7
Aug	116,1	115,8	96,3	101,6	107,6	109,9	
Sep	110,1	114,4	99,9	102,2	110,0	107,9	
Oct	125,9	120,8	108,4	110,3	112,6	116,8	
Nov	125,9	113,7	107,9	112,2	116,3	121,1	
Dec	97,2	86,3	89,2	91,0	93,8	95,3	
Year	111,3	110,9	95,6	100,0	102,7	105,2	

1/ Preliminary.

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

2/

Month	2007	2008	2009	2010	2011	2012	2013
Jan	5,4	0,7	-14,8	2,2	2,5	3,2	3,7
Feb	8,1	2,5	-16,7	1,2	6,4	4,6	-2,1
Mar	6,9	-2,2	-13,7	6,4	5,4	-2,6	-1,4
Apr	5,4	9,9	-23,2	7,9	0,3	1,8	7,1
May	8,2	0,3	-18,4	6,8	1,1	5,0	2,2
Jun	1,6	4,5	-18,3	8,9	1,2	0,8	0,5
Jul	3,1	2,6	-15,3	7,2	-6,0	7,1	5,4
Aug	4,8	-0,3	-16,8	5,5	5,9	2,1	
Sep	-1,5	3,9	-12,7	2,3	7,6	-1,9	
Oct	5,4	-4,1	-10,3	1,8	2,1	3,7	
Nov	4,0	-9,7	-5,1	4,0	3,7	4,1	
Dec	-0,2	-11,2	3,4	2,0	3,1	1,6	
Year	4,2	-0,4	-13,8	4,6	2,7	2,4	

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

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

Base: 2010=100

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

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

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average for 2012	Actual indices			Seasonally adjusted indices		
			July 2012	1/ June 2013	1/ July 2013	July 2012	June 2013	July 2013
Food and beverages	22,1	104,4	102,9	102,9	109,2	104,9	105,7	111,6
-Meat, fish, fruit, etc.	4,4	106,4	103,1	105,2	114,4	103,9	105,5	115,0
-Dairy products	2,2	108,8	102,1	97,1	101,2	109,4	107,4	108,7
-Grain mill products	2,7	105,1	106,7	104,7	112,0	106,1	103,6	111,8
-Other food products	6,4	97,4	112,1	107,8	116,9	101,6	98,5	106,0
-Beverages	6,4	108,0	92,4	97,7	99,6	107,0	113,3	115,7
Textiles, clothing, leather and footwear	3,5	95,7	98,8	97,6	101,2	97,3	99,4	99,8
-Textiles	0,7	87,1	86,0	87,4	88,4	84,4	85,1	86,9
-Other textile products	0,4	96,4	95,8	94,9	98,1	95,2	96,1	97,6
-Knitted, crocheted articles	0,1	71,5	68,8	68,0	60,1	72,6	66,7	63,6
-Wearing apparel	1,6	98,7	106,4	100,1	103,6	105,4	103,2	102,7
-Leather and leather products	0,2	107,2	99,9	128,6	123,6	101,4	122,4	126,3
-Footwear	0,5	95,8	99,1	96,6	110,4	93,1	104,2	103,8
Wood and wood products, paper, publishing and printing	9,3	103,9	98,7	99,1	104,2	98,6	100,7	104,4
-Sawmilling and planing of wood	0,8	106,8	112,9	110,1	117,2	106,8	109,5	111,6
-Products of wood	1,7	100,3	106,0	98,0	102,3	103,2	98,2	99,5
-Paper and paper products	3,2	98,6	93,6	104,8	99,4	96,2	100,5	102,2
-Publishing	1,4	115,4	95,5	104,6	116,3	97,8	111,5	118,8
-Printing, recorded media	2,2	105,6	97,2	83,7	99,8	96,3	92,4	98,9
Petroleum, chemical products, rubber and plastic products	25,1	107,2	110,2	103,8	114,5	105,0	102,3	109,6
-Coke, petroleum products and nuclear fuel	8,0	104,1	112,7	90,6	109,4	98,9	85,2	95,8
-Basic chemicals	5,8	106,9	102,7	112,3	119,9	101,0	114,2	118,7
-Other chemical products	7,4	109,1	112,9	108,3	114,9	112,7	107,6	114,8
-Rubber products	1,2	116,4	121,4	126,4	122,7	116,8	124,4	118,5
-Plastic products	2,7	107,7	106,8	101,9	113,6	105,3	103,4	112,3
Glass and non-metallic mineral products	4,9	103,8	108,4	110,7	116,2	102,5	106,4	110,2
-Glass and glass products	0,8	104,1	106,1	109,7	117,8	104,1	114,6	115,2
-Non-metallic mineral products	4,1	103,7	108,9	110,9	115,9	102,2	104,8	109,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	102,8	108,1	110,9	102,6	108,6	111,7
-Basic iron and steel products	4,4	92,2	79,8	102,8	102,2	87,4	104,1	113,3
-Non-ferrous metal products	3,5	97,3	93,3	105,6	114,6	92,7	112,2	114,2
-Structural metal products	1,9	98,1	97,1	86,2	85,6	93,9	83,2	83,3
-Other fabricated metal products	3,8	113,1	118,3	116,6	125,1	110,4	114,7	117,4
-General purpose machinery	2,3	109,8	113,9	107,3	103,1	111,9	106,3	101,6
-Special purpose machinery	3,5	112,0	116,8	118,8	120,5	118,3	118,8	122,1
-Household appliances	0,9	113,7	114,8	114,1	115,2	114,9	111,0	115,5
Electrical machinery	2,4	101,3	111,2	100,7	103,8	108,2	97,5	101,4
Radio, television and communication apparatus and professional equipment	1,3	121,7	126,4	119,5	124,5	118,5	119,5	117,3
-Radio, television and communication apparatus	0,8	130,1	137,0	128,7	136,7	127,0	132,3	127,0
-Professional equipment	0,5	109,8	111,3	106,6	107,2	106,5	101,5	103,5
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	116,0	121,9	127,5	112,6	115,3	124,8
-Motor vehicles	3,2	124,2	138,2	150,2	153,9	130,9	141,5	147,2
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	111,4	106,4	118,4	109,6	106,7	117,0
-Parts and accessories	2,9	99,9	96,0	96,9	113,1	95,3	93,7	113,6
-Other transport equipment	1,2	99,3	107,0	113,9	95,3	106,7	101,0	94,7
Furniture and other manufacturing division	3,2	103,6	102,0	92,1	99,9	98,8	91,1	97,0
-Furniture	0,9	111,5	117,9	105,4	117,9	112,2	105,2	112,2
-Other manufacturing groups	2,3	100,3	95,3	86,6	92,4	93,3	85,2	90,6
Total	100,0	105,2	106,0	105,4	111,7	104,2	105,1	110,4

1/ Preliminary.

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

Base: 2010=100

Manufacturing divisions and major groups	Weights 2010	Average for 2012	Actual indices			Seasonally adjusted indices		
			July 2012	1/ July 2013	% change between July 2012 and July 2013	June 2013	July 2013	% change between June and July 2013
Food and beverages	22,1	104,4	102,9	109,2	6,1	105,7	111,6	5,6
-Meat, fish, fruit, etc.	4,4	106,4	103,1	114,4	11,0	105,5	115,0	9,0
-Dairy products	2,2	108,8	102,1	101,2	-0,9	107,4	108,7	1,2
-Grain mill products	2,7	105,1	106,7	112,0	5,0	103,6	111,8	7,9
-Other food products	6,4	97,4	112,1	116,9	4,3	98,5	106,0	7,6
-Beverages	6,4	108,0	92,4	99,6	7,8	113,3	115,7	2,1
Textiles, clothing, leather and footwear	3,5	95,7	98,8	101,2	2,4	99,4	99,8	0,4
-Textiles	0,7	87,1	86,0	88,4	2,8	85,1	86,9	2,1
-Other textile products	0,4	96,4	95,8	98,1	2,4	96,1	97,6	1,6
-Knitted, crocheted articles	0,1	71,5	68,8	60,1	-12,6	66,7	63,6	-4,6
-Wearing apparel	1,6	98,7	106,4	103,6	-2,6	103,2	102,7	-0,5
-Leather and leather products	0,2	107,2	99,9	123,6	23,7	122,4	126,3	3,2
-Footwear	0,5	95,8	99,1	110,4	11,4	104,2	103,8	-0,4
Wood and wood products, paper, publishing and printing	9,3	103,9	98,7	104,2	5,6	100,7	104,4	3,7
-Sawmilling and planing of wood	0,8	106,8	112,9	117,2	3,8	109,5	111,6	1,9
-Products of wood	1,7	100,3	106,0	102,3	-3,5	98,2	99,5	1,3
-Paper and paper products	3,2	98,6	93,6	99,4	6,2	100,5	102,2	1,7
-Publishing	1,4	115,4	95,5	116,3	21,8	111,5	118,8	6,5
-Printing, recorded media	2,2	105,6	97,2	99,8	2,7	92,4	98,9	7,0
Petroleum, chemical products, rubber and plastic products	25,1	107,2	110,2	114,5	3,9	102,3	109,6	7,1
-Coke, petroleum products and nuclear fuel	8,0	104,1	112,7	109,4	-2,9	85,2	95,8	12,4
-Basic chemicals	5,8	106,9	102,7	119,9	16,7	114,2	118,7	3,9
-Other chemical products	7,4	109,1	112,9	114,9	1,8	107,6	114,8	6,7
-Rubber products	1,2	116,4	121,4	122,7	1,1	124,4	118,5	-4,7
-Plastic products	2,7	107,7	106,8	113,6	6,4	103,4	112,3	8,6
Glass and non-metallic mineral products	4,9	103,8	108,4	116,2	7,2	106,4	110,2	3,6
-Glass and glass products	0,8	104,1	106,1	117,8	11,0	114,6	115,2	0,5
-Non-metallic mineral products	4,1	103,7	108,9	115,9	6,4	104,8	109,3	4,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	103,9	102,8	110,9	7,9	108,6	111,7	2,9
-Basic iron and steel products	4,4	92,2	79,8	102,2	28,1	104,1	113,3	8,8
-Non-ferrous metal products	3,5	97,3	93,3	114,6	22,8	112,2	114,2	1,8
-Structural metal products	1,9	98,1	97,1	85,6	-11,8	83,2	83,3	0,1
-Other fabricated metal products	3,8	113,1	118,3	125,1	5,7	114,7	117,4	2,4
-General purpose machinery	2,3	109,8	113,9	103,1	-9,5	106,3	101,6	-4,4
-Special purpose machinery	3,5	112,0	116,8	120,5	3,2	118,8	122,1	2,8
-Household appliances	0,9	113,7	114,8	115,2	0,3	111,0	115,5	4,1
Electrical machinery	2,4	101,3	111,2	103,8	-6,7	97,5	101,4	4,0
Radio, television and communication apparatus and professional equipment	1,3	121,7	126,4	124,5	-1,5	119,5	117,3	-1,8
-Radio, television and communication apparatus	0,8	130,1	137,0	136,7	-0,2	132,3	127,0	-4,0
-Professional equipment	0,5	109,8	111,3	107,2	-3,7	101,5	103,5	2,0
Motor vehicles, parts and accessories and other transport equipment	7,9	110,7	116,0	127,5	9,9	115,3	124,8	8,2
-Motor vehicles	3,2	124,2	138,2	153,9	11,4	141,5	147,2	4,0
-Bodies for motor vehicles, trailers and semi-trailers	0,6	112,1	111,4	118,4	6,3	106,7	117,0	9,7
-Parts and accessories	2,9	99,9	96,0	113,1	17,8	93,7	113,6	21,2
-Other transport equipment	1,2	99,3	107,0	95,3	-10,9	101,0	94,7	-6,2
Furniture and other manufacturing division	3,2	103,6	102,0	99,9	-2,1	91,1	97,0	6,5
-Furniture	0,9	111,5	117,9	117,9	0,0	105,2	112,2	6,7
-Other manufacturing groups	2,3	100,3	95,3	92,4	-3,0	85,2	90,6	6,3
Total	100,0	105,2	106,0	111,7	5,4	105,1	110,4	5,0

1/ Preliminary.

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

Month	* 2007	* 2008	* 2009	* 2010	* 2011	* 2012	2013
Jan	83 305 965	93 280 502	87 916 275	88 548 858	94 246 456	105 443 384	* 114 667 597
Feb	95 420 251	110 769 560	99 565 792	100 040 055	109 522 908	123 677 978	* 129 430 936
Mar	102 759 188	117 621 056	107 737 720	113 278 092	123 964 153	130 984 336	* 135 367 021
Apr	92 877 708	119 609 521	92 230 272	99 980 962	106 169 292	115 493 885	131 245 797
May	104 205 853	122 938 629	98 715 959	107 436 033	115 621 248	128 068 083	1/ 138 886 360
Jun	101 154 327	127 601 209	100 377 623	111 752 400	120 091 539	128 588 051	1/ 136 609 327
Jul	101 798 105	131 369 593	102 048 423	110 963 260	110 987 187	125 462 845	1/ 143 629 831
Aug	107 658 150	129 126 848	103 007 029	108 663 903	122 688 235	132 094 313	
Sep	102 989 748	128 633 004	107 188 812	111 184 472	130 818 755	129 532 600	
Oct	116 363 030	135 163 841	112 486 658	119 561 318	131 429 847	141 820 125	
Nov	118 990 834	125 995 637	114 583 579	124 219 561	136 700 911	150 484 487	
Dec	94 537 958	98 974 837	97 356 722	102 518 765	115 525 999	121 426 485	
Year	1 222 061 117	1 441 084 237	1 223 214 864	1 298 147 679	1 417 766 530	1 533 076 572	

1/ Preliminary.

* Revised. See note 25 in the explanatory notes, page 18.

Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2007 – 2013 2/

Month	2007	2008	2009	2010	2011	2012	2013
Jan	20,7	12,0	-5,8	0,7	6,4	11,9	8,7
Feb	24,0	16,1	-10,1	0,5	9,5	12,9	4,7
Mar	20,1	14,5	-8,4	5,1	9,4	5,7	3,3
Apr	21,2	28,8	-22,9	8,4	6,2	8,8	13,6
May	21,0	18,0	-19,7	8,8	7,6	10,8	8,4
Jun	12,5	26,1	-21,3	11,3	7,5	7,1	6,2
Jul	11,7	29,0	-22,3	8,7	0,0	13,0	14,5
Aug	13,4	19,9	-20,2	5,5	12,9	7,7	
Sep	6,1	24,9	-16,7	3,7	17,7	-1,0	
Oct	13,5	16,2	-16,8	6,3	9,9	7,9	
Nov	12,1	5,9	-9,1	8,4	10,0	10,1	
Dec	11,3	4,7	-1,6	5,3	12,7	5,1	
Year	15,2	17,9	-15,1	6,1	9,2	8,1	

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

Table 7 – Total seasonally adjusted sales of the manufacturing industry at current prices (R'000): 2007 – 2013

Month	2007	2008	2009	2010	2011	2012	2013
Jan	99 318 678	111 051 280	105 224 228	105 646 383	111 981 982	124 039 593	134 818 657
Feb	99 935 245	116 281 306	104 234 718	104 241 277	113 919 648	128 685 640	134 354 809
Mar	99 565 102	113 739 553	103 657 157	108 536 734	118 873 089	125 862 693	130 090 478
Apr	99 455 271	128 219 776	99 119 676	107 557 586	113 892 124	123 800 212	140 691 144
May	103 802 390	122 327 864	99 037 760	107 615 402	115 395 838	127 862 235	138 681 783
Jun	99 287 187	124 695 925	98 656 079	110 012 520	118 349 369	127 122 780	135 303 799
Jul	99 806 124	128 443 479	100 631 677	109 835 021	110 163 070	124 898 929	143 329 871
Aug	104 214 958	124 915 431	100 331 874	106 353 953	120 334 097	129 616 126	
Sep	97 748 585	122 142 381	101 970 503	105 693 279	124 653 156	123 676 964	
Oct	105 683 995	122 853 223	102 505 253	109 256 831	120 729 587	130 692 288	
Nov	107 076 234	113 258 151	102 734 645	110 805 432	121 853 466	134 381 125	
Dec	105 668 668	109 233 161	106 682 030	112 056 320	126 173 055	131 844 366	

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

Manufacturing divisions and major groups	* Year 2012	Actual values			Seasonally adjusted values		
		* July 2012	1/ June 2013	1/ July 2013	July 2012	June 2013	July 2013
Food and beverages	326 946 141	26 009 956	27 239 174	28 599 157	27 167 564	28 487 898	29 916 676
-Meat, fish, fruit, etc.	80 822 453	6 600 581	7 021 631	7 677 719	6 685 214	7 213 237	7 772 793
-Dairy products	28 312 329	2 275 301	2 275 468	2 473 358	2 345 763	2 497 737	2 558 888
-Grain mill products	56 100 754	4 680 839	4 928 296	5 252 075	4 616 131	4 822 840	5 194 069
-Other food products	71 712 263	5 914 674	5 982 059	6 127 126	5 879 914	5 880 312	6 102 918
-Beverages	89 998 342	6 538 561	7 031 720	7 068 879	7 640 542	8 073 772	8 288 007
Textiles, clothing, leather and footwear	40 404 981	3 362 790	3 555 279	3 767 388	3 335 629	3 564 912	3 743 821
-Textiles	5 235 984	420 764	466 279	513 373	423 957	450 137	519 574
-Other textile products	10 153 318	832 114	883 334	944 178	816 382	877 200	928 359
-Knitted, crocheted articles	1 753 481	142 129	148 109	129 806	147 026	141 667	134 407
-Wearing apparel	14 143 137	1 232 302	1 236 268	1 309 349	1 215 784	1 278 409	1 291 085
-Leather and leather products	5 510 187	445 211	530 557	550 252	444 807	510 009	551 185
-Footwear	3 608 874	290 270	290 732	320 430	287 672	307 492	319 211
Wood and wood products, paper, publishing and printing	117 712 985	9 154 695	9 893 957	10 205 385	9 290 424	9 816 066	10 374 654
-Sawmilling and planing of wood	8 463 057	735 887	762 073	792 741	707 342	764 504	766 134
-Products of wood	15 757 813	1 350 346	1 338 634	1 408 639	1 330 484	1 334 794	1 385 560
-Paper and paper products	53 172 649	4 116 650	4 869 722	4 606 686	4 293 852	4 552 221	4 818 800
-Publishing	18 134 518	1 253 578	1 392 435	1 581 370	1 281 452	1 486 574	1 610 501
-Printing, recorded media	22 184 948	1 698 234	1 531 093	1 815 949	1 677 294	1 677 974	1 793 659
Petroleum, chemical products, rubber and plastic products	376 486 756	30 430 510	35 191 226	36 736 143	30 010 679	33 983 326	36 399 943
-Coke, petroleum products and nuclear fuel	158 106 980	12 783 542	15 637 019	16 392 704	11 975 954	14 547 835	15 508 469
-Basic chemicals	76 438 686	5 716 373	7 301 585	7 131 195	6 096 737	7 201 714	7 633 102
-Other chemical products	79 423 187	6 732 946	6 935 335	7 319 295	6 795 041	6 874 810	7 405 847
-Rubber products	15 263 719	1 298 746	1 418 917	1 429 115	1 253 608	1 418 870	1 385 813
-Plastic products	47 254 184	3 898 903	3 898 370	4 463 834	3 889 340	3 940 096	4 466 713
Glass and non-metallic mineral products	47 180 190	4 077 009	4 466 572	4 844 935	3 893 955	4 359 551	4 643 264
-Glass and glass products	8 121 291	672 533	798 718	827 096	696 484	820 518	853 072
-Non-metallic mineral products	39 058 899	3 404 476	3 667 854	4 017 839	3 197 471	3 539 033	3 790 193
Basic iron and steel, non-ferrous metal products, metal products and machinery	332 851 058	27 068 202	29 753 305	31 390 531	26 922 727	29 072 769	31 405 705
-Basic iron and steel products	96 706 133	7 250 586	8 645 259	9 009 508	7 524 259	8 128 613	9 410 384
-Non-ferrous metal products	62 624 343	5 055 381	6 316 001	6 298 959	5 138 701	6 288 353	6 435 351
-Structural metal products	32 286 631	2 652 685	2 499 619	2 482 981	2 608 339	2 432 699	2 465 439
-Other fabricated metal products	57 443 513	4 950 258	4 855 670	5 396 099	4 680 983	4 724 115	5 137 444
-General purpose machinery	32 972 813	2 790 813	2 846 702	2 833 801	2 769 487	2 770 776	2 816 190
-Special purpose machinery	40 218 784	3 485 407	3 678 397	4 400 695	3 322 139	3 821 373	4 177 426
-Household appliances	10 598 841	883 072	911 657	968 488	878 819	906 841	963 470
Electrical machinery	42 562 562	3 736 894	3 843 613	3 915 430	3 571 888	3 755 516	3 753 999
Radio, television and communication apparatus and professional equipment	17 461 452	1 517 477	1 520 923	1 587 091	1 453 332	1 509 524	1 517 749
-Radio, television and communication apparatus	8 203 450	745 285	720 855	793 467	694 983	757 387	738 593
-Professional equipment	9 258 002	772 192	800 068	793 624	758 349	752 137	779 156
Motor vehicles, parts and accessories and other transport equipment	178 804 260	15 750 208	16 482 927	17 915 303	14 893 901	16 197 739	16 882 401
-Motor vehicles	93 885 515	8 242 523	8 892 361	9 662 446	7 816 068	8 861 348	9 123 653
-Bodies for motor vehicles, trailers and semi-trailers	7 327 565	628 873	634 353	736 143	599 297	624 251	703 562
-Parts and accessories	59 193 237	5 232 232	5 099 470	5 953 757	4 841 450	5 072 946	5 505 966
-Other transport equipment	18 397 943	1 646 580	1 856 743	1 562 957	1 637 086	1 639 195	1 549 219
Furniture and other manufacturing division	52 666 187	4 355 104	4 662 351	4 668 468	4 358 829	4 556 497	4 691 659
-Furniture	13 203 900	1 157 962	1 068 280	1 184 712	1 117 846	1 067 273	1 145 054
-Other manufacturing groups	39 462 287	3 197 142	3 594 071	3 483 756	3 240 983	3 489 224	3 546 606
Total	1 533 076 572	125 462 845	136 609 327	143 629 831	124 898 929	135 303 799	143 329 871

1/ Preliminary.

* Revised. See note 25 in the explanatory notes, page 18.

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

Manufacturing divisions and major groups	* Year 2012	Actual values			Seasonally adjusted values		
		* July 2012	1/ July 2013	% change between July 2012 and July 2013	June 2013	July 2013	% change between June and July 2013
Food and beverages	326 946 141	26 009 956	28 599 157	10,0	28 487 898	29 916 676	5,0
-Meat, fish, fruit, etc.	80 822 453	6 600 581	7 677 719	16,3	7 213 237	7 772 793	7,8
-Dairy products	28 312 329	2 275 301	2 473 358	8,7	2 497 737	2 558 888	2,4
-Grain mill products	56 100 754	4 680 839	5 252 075	12,2	4 822 840	5 194 069	7,7
-Other food products	71 712 263	5 914 674	6 127 126	3,6	5 880 312	6 102 918	3,8
-Beverages	89 998 342	6 538 561	7 068 879	8,1	8 073 772	8 288 007	2,7
Textiles, clothing, leather and footwear	40 404 981	3 362 790	3 767 388	12,0	3 564 912	3 743 821	5,0
-Textiles	5 235 984	420 764	513 373	22,0	450 137	519 574	15,4
-Other textile products	10 153 318	832 114	944 178	13,5	877 200	928 359	5,8
-Knitted, crocheted articles	1 753 481	142 129	129 806	-8,7	141 667	134 407	-5,1
-Wearing apparel	14 143 137	1 232 302	1 309 349	6,3	1 278 409	1 291 085	1,0
-Leather and leather products	5 510 187	445 211	550 252	23,6	510 009	551 185	8,1
-Footwear	3 608 874	290 270	320 430	10,4	307 492	319 211	3,8
Wood and wood products, paper, publishing and printing	117 712 985	9 154 695	10 205 385	11,5	9 816 066	10 374 654	5,7
-Sawmilling and planing of wood	8 463 057	735 887	792 741	7,7	764 504	766 134	0,2
-Products of wood	15 757 813	1 350 346	1 408 639	4,3	1 334 794	1 385 560	3,8
-Paper and paper products	53 172 649	4 116 650	4 606 686	11,9	4 552 221	4 818 800	5,9
-Publishing	18 134 518	1 253 578	1 581 370	26,1	1 486 574	1 610 501	8,3
-Printing, recorded media	22 184 948	1 698 234	1 815 949	6,9	1 677 974	1 793 659	6,9
Petroleum, chemical products, rubber and plastic products	376 486 756	30 430 510	36 736 143	20,7	33 983 326	36 399 943	7,1
-Coke, petroleum products and nuclear fuel	158 106 980	12 783 542	16 392 704	28,2	14 547 835	15 508 469	6,6
-Basic chemicals	76 438 686	5 716 373	7 131 195	24,8	7 201 714	7 633 102	6,0
-Other chemical products	79 423 187	6 732 946	7 319 295	8,7	6 874 810	7 405 847	7,7
-Rubber products	15 263 719	1 298 746	1 429 115	10,0	1 418 870	1 385 813	-2,3
-Plastic products	47 254 184	3 898 903	4 463 834	14,5	3 940 096	4 466 713	13,4
Glass and non-metallic mineral products	47 180 190	4 077 009	4 844 935	18,8	4 359 551	4 643 264	6,5
-Glass and glass products	8 121 291	672 533	827 096	23,0	820 518	853 072	4,0
-Non-metallic mineral products	39 058 899	3 404 476	4 017 839	18,0	3 539 033	3 790 193	7,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	332 851 058	27 068 202	31 390 531	16,0	29 072 769	31 405 705	8,0
-Basic iron and steel products	96 706 133	7 250 586	9 009 508	24,3	8 128 613	9 410 384	15,8
-Non-ferrous metal products	62 624 343	5 055 381	6 298 959	24,6	6 288 353	6 435 351	2,3
-Structural metal products	32 286 631	2 652 685	2 482 981	-6,4	2 432 699	2 465 439	1,3
-Other fabricated metal products	57 443 513	4 950 258	5 396 099	9,0	4 724 115	5 137 444	8,7
-General purpose machinery	32 972 813	2 790 813	2 833 801	1,5	2 770 776	2 816 190	1,6
-Special purpose machinery	40 218 784	3 485 407	4 400 695	26,3	3 821 373	4 177 426	9,3
-Household appliances	10 598 841	883 072	968 488	9,7	906 841	963 470	6,2
Electrical machinery	42 562 562	3 736 894	3 915 430	4,8	3 755 516	3 753 999	0,0
Radio, television and communication apparatus and professional equipment	17 461 452	1 517 477	1 587 091	4,6	1 509 524	1 517 749	0,5
-Radio, television and communication apparatus	8 203 450	745 285	793 467	6,5	757 387	738 593	-2,5
-Professional equipment	9 258 002	772 192	793 624	2,8	752 137	779 156	3,6
Motor vehicles, parts and accessories and other transport equipment	178 804 260	15 750 208	17 915 303	13,7	16 197 739	16 882 401	4,2
-Motor vehicles	93 885 515	8 242 523	9 662 446	17,2	8 861 348	9 123 653	3,0
-Bodies for motor vehicles, trailers and semi-trailers	7 327 565	628 873	736 143	17,1	624 251	703 562	12,7
-Parts and accessories	59 193 237	5 232 232	5 953 757	13,8	5 072 946	5 505 966	8,5
-Other transport equipment	18 397 943	1 646 580	1 562 957	-5,1	1 639 195	1 549 219	-5,5
Furniture and other manufacturing division	52 666 187	4 355 104	4 668 468	7,2	4 556 497	4 691 659	3,0
-Furniture	13 203 900	1 157 962	1 184 712	2,3	1 067 273	1 145 054	7,3
-Other manufacturing groups	39 462 287	3 197 142	3 483 756	9,0	3 489 224	3 546 606	1,6
Total	1 533 076 572	125 462 845	143 629 831	14,5	135 303 799	143 329 871	5,9

1/ Preliminary.

* Revised. See note 25 in the explanatory notes, page 18.

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)		
		May to Jul. 2012	May to Jul. 2013	% change between May to Jul. 2012 and May to Jul. 2013	* May to Jul. 2012	May to Jul. 2013	% change between May to Jul. 2012 and May to Jul. 2013
Food and beverages	22,1	103,3	107,1	3,7	77 941 052	83 808 685	7,5
-Meat, fish, fruit, etc.	4,4	107,3	110,6	3,1	20 039 801	22 016 411	9,9
-Dairy products	2,2	102,1	100,2	-1,9	6 813 466	7 239 445	6,3
-Grain mill products	2,7	105,4	108,6	3,0	13 812 506	15 241 664	10,3
-Other food products	6,4	109,8	115,2	4,9	17 795 251	18 358 572	3,2
-Beverages	6,4	93,6	98,4	5,1	19 480 028	20 952 593	7,6
Textiles, clothing, leather and footwear	3,5	95,6	99,9	4,5	10 149 583	11 097 398	9,3
-Textiles	0,7	86,2	87,3	1,3	1 275 459	1 493 183	17,1
-Other textile products	0,4	99,1	99,5	0,4	2 631 376	2 787 905	5,9
-Knitted, crocheted articles	0,1	69,4	68,1	-1,9	434 015	457 473	5,4
-Wearing apparel	1,6	98,7	102,7	4,1	3 528 933	3 843 461	8,9
-Leather and leather products	0,2	109,4	122,7	12,2	1 408 142	1 598 149	13,5
-Footwear	0,5	93,7	103,3	10,2	871 658	917 227	5,2
Wood and wood products, paper, publishing and printing	9,3	99,6	100,7	1,1	28 240 331	29 758 531	5,4
-Sawmilling and planing of wood	0,8	109,8	111,5	1,5	2 149 723	2 259 171	5,1
-Products of wood	1,7	102,4	100,4	-2,0	3 961 148	4 072 585	2,8
-Paper and paper products	3,2	98,0	100,3	2,3	13 184 530	13 988 561	6,1
-Publishing	1,4	96,9	106,6	10,0	3 787 877	4 328 239	14,3
-Printing, recorded media	2,2	97,8	93,4	-4,5	5 157 053	5 109 975	-0,9
Petroleum, chemical products, rubber and plastic products	25,1	108,4	107,5	-0,8	93 345 543	106 763 917	14,4
-Coke, petroleum products and nuclear fuel	8,0	108,5	95,7	-11,8	39 131 664	46 920 906	19,9
-Basic chemicals	5,8	102,1	113,9	11,6	18 230 930	21 584 562	18,4
-Other chemical products	7,4	110,7	111,9	1,1	20 151 347	21 460 784	6,5
-Rubber products	1,2	125,6	126,9	1,0	3 967 564	4 252 049	7,2
-Plastic products	2,7	107,8	108,0	0,2	11 864 038	12 545 616	5,7
Glass and non-metallic mineral products	4,9	109,6	113,3	3,4	12 257 809	13 722 112	11,9
-Glass and glass products	0,8	96,8	109,5	13,1	1 877 021	2 312 361	23,2
-Non-metallic mineral products	4,1	112,1	114,0	1,7	10 380 788	11 409 751	9,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	20,3	102,6	111,3	8,5	84 110 626	92 148 841	9,6
-Basic iron and steel products	4,4	85,9	106,4	23,9	24 509 072	27 072 512	10,5
-Non-ferrous metal products	3,5	87,4	111,7	27,8	15 268 677	18 645 611	22,1
-Structural metal products	1,9	99,0	86,5	-12,6	8 072 738	7 549 567	-6,5
-Other fabricated metal products	3,8	116,7	121,4	4,0	14 893 454	15 560 223	4,5
-General purpose machinery	2,3	114,6	106,6	-7,0	8 590 417	8 625 179	0,4
-Special purpose machinery	3,5	113,2	121,6	7,4	10 050 622	11 866 441	18,1
-Household appliances	0,9	117,3	116,1	-1,0	2 725 646	2 829 308	3,8
Electrical machinery	2,4	109,9	104,8	-4,6	11 434 316	11 622 290	1,6
Radio, television and communication apparatus and professional equipment	1,3	120,7	118,8	-1,6	4 343 314	4 559 613	5,0
-Radio, television and communication apparatus	0,8	124,7	128,4	3,0	1 968 324	2 209 456	12,3
-Professional equipment	0,5	115,1	105,2	-8,6	2 374 990	2 350 157	-1,0
Motor vehicles, parts and accessories and other transport equipment	7,9	118,5	126,0	6,3	46 881 763	51 754 511	10,4
-Motor vehicles	3,2	136,7	151,7	11,0	24 823 014	28 222 268	13,7
-Bodies for motor vehicles, trailers and semi-trailers	0,6	115,6	118,7	2,7	1 932 087	2 089 540	8,1
-Parts and accessories	2,9	104,4	108,5	3,9	15 267 144	16 452 787	7,8
-Other transport equipment	1,2	105,2	102,1	-2,9	4 859 518	4 989 916	2,7
Furniture and other manufacturing division	3,2	109,2	96,5	-11,6	13 414 642	13 889 620	3,5
-Furniture	0,9	116,8	110,7	-5,2	3 450 635	3 336 150	-3,3
-Other manufacturing groups	2,3	106,1	90,7	-14,5	9 964 007	10 553 470	5,9
Total	100,0	105,9	108,8	2,7	382 118 979	419 125 518	9,7

* Revised. See note 25 in the explanatory notes, page 18.

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 July 2013 was 87,7%. Collection rate for June 2013 for the new sample was 89,9%.
- Statistical unit**
- 10 The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

Survey methodology and design

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

Weighting methodology

- 15 For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form major group and division estimates. These procedures are consistent with international best practice.
- 16 For indices, a weight is calculated for every major group according to the value added of the major group relative to the total value added of the manufacturing industry as a whole, based on the results of the most recent large sample survey of the manufacturing industry or national accounts value added weights. For the period 2001 to 2004, the weights are based on the 2001 large sample survey of the manufacturing industry (LSS), for the period 2005 to 2009, the weights are based on the 2005 LSS and for the period 2010 to 2013, the weights are based on national accounts value added data. Weights between LSS / national accounts years are fixed. The production indices of all divisions are multiplied by the applicable weights and aggregated to produce the index for the total physical volume of manufacturing production (see Table F for the fixed weights which were used for the three periods 2001 to 2004, 2005 to 2009 and 2010 to 2013).

Seasonal adjustment

- 17 Seasonally adjusted estimates of all major groups are generated each month, using the X-11 Seasonal Adjustment Program developed by the US Bureau of the Census, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from a time series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences, which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. Currently, no adjustment is made for changes in the timing of Easter. Therefore the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.

- Trend cycle** 18 The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Programme is used for smoothing seasonally adjusted estimates to estimates of the underlying trend cycle.
- Reliability of estimates** 19 Data presented in this publication are based on information obtained from a sample and are, therefore, subject to sampling variability; that is, they may differ from the figures that would have been produced if the data had been obtained from all enterprises in the manufacturing industry in South Africa. Estimates are subject to sampling and non-sampling errors.
- 20 Inaccuracies may occur because of imperfections in reporting by enterprises and errors made in the collection and processing of the data. Inaccuracies of this kind are referred to as non-sampling errors. Every effort is made to minimise non-sampling errors by careful design of questionnaires, testing them in pilot studies, editing reported data and implementing efficient operating procedures. Fluctuations may occur in consecutive months as a result of seasonal and economic factors.
- Revised figures** 21 Revised figures are due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures are indicated in the relevant tables. Data are edited at the enterprise level.
- Related publications** 22 Users may also wish to refer to the following publications available from Stats SA -
- *Bulletin of Statistics*, issued quarterly.
 - *SA Statistics*, issued annually.
- Rounding-off of figures** 23 Where necessary, the figures in the tables have been rounded off to the nearest digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.
- Symbols and abbreviations** 24
- | | |
|----------|---|
| BR | Business Register |
| GDP | Gross domestic product |
| ISIC | International Standard Industrial Classification |
| LSS | Large sample survey |
| m | Million |
| SIC | Standard Industrial Classification of all Economic Activities |
| SARS | South African Revenue Service |
| Stats SA | Statistics South Africa |
| VAT | Value added tax |
| * | Revised figures |
- Changes in this publication** 25 The results published today are based on a new sample drawn in April 2013. The periodic introduction of a new sample is part of Stats SA's strategic approach in improving the basis on which surveys are conducted.
- The new sample was conducted in parallel with the previous sample for April to June 2013. A comparison of total sales estimates between the new and previous samples shows a 0,6% higher level of sales for the new sample.

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 (SNA)</i> in the same way as in the <i>1993 Standard Industrial Classification of all Economic Activities</i> , Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).
Intermediate consumption	Intermediate consumption includes - <ul style="list-style-type: none"> • purchases and transfers-in of materials; • payments to other establishments for work done; • other direct factory costs; • rent and leasing paid; • head office charges; • royalties, copyright, trade names and patent rights paid; • advertising; • insurance premiums; • services; and • secretarial and administrative fees.
Output	Output is the aggregate value of goods manufactured and work done and includes - <ul style="list-style-type: none"> • sales and transfers-out of own manufactures, factory waste and stocks of factored goods; • repairs; • installation, erection and assembly; • sundry trading revenue; • sales of factored goods minus purchases of factored goods; • rent and leasing received; • royalties received; • difference between opening value and closing value of work in progress, stocks of own manufactures and stocks of factored goods; • head office charges; and • other revenue. <p>Output excludes excise and customs duty paid.</p>
Value added	Value added is the value of output less intermediate consumption. It represents the value added to the cost of the materials used in the process of production.
Sales	Sales are the total value of sales and transfers-out of all own manufactured products/articles and the amounts received for installation, erection or assembly or other services rendered.
Turnover	Turnover refers to - <ul style="list-style-type: none"> • the value of sales and transfers out of all own manufactured products/articles; • amounts received for work done; and • amounts received for services rendered.

Turnover excludes -

- value added tax (VAT);
- export freight charges; and
- excise duty.

Weight

The weight of a major group of manufacturing in the overall index for manufacturing is the ratio of the value added of the major group (i.e. output of a major group minus intermediate consumption) to the total value added of the manufacturing industry. The weight reflects the importance of the major group in the total. The weights change over time due to changes in the relative performance of industries, due to factors such as quality changes, changes in relative prices, and changes in customer preferences. New weights need to be calculated from time to time.

Table F – Weights according to manufacturing divisions and major groups

Manufacturing divisions and major groups	Weights according to the 2001 LSS of the manufacturing industry 2001 - 2004	Weights according to the 2005 LSS of the manufacturing industry 2005 - 2009	Weights according to 2010 national accounts value added 2010 - 2013
Food and beverages	16,4	15,4	22,1
Meat, fish, fruit, etc.	2,6	1,8	4,4
Dairy products	1,1	0,8	2,2
Grain mill products	1,5	0,8	2,7
Other food products	6,8	5,2	6,4
Beverages	4,3	6,8	6,4
Textiles, clothing, leather and footwear	5,4	4,9	3,5
Textiles	1,2	0,7	0,7
Other textile products	1,2	0,9	0,4
Knitted, crocheted articles	0,3	0,2	0,1
Wearing apparel	2,0	2,1	1,6
Tanning, dressing of leather	0,3	0,6	0,2
Footwear	0,4	0,4	0,5
Wood and wood products, paper, publishing and printing	11,0	10,2	9,3
Sawmilling and planing of wood	0,7	0,7	0,8
Products of wood	1,0	1,3	1,7
Paper and paper products	4,8	3,8	3,2
Publishing	2,4	1,9	1,4
Printing, recorded media	2,1	2,5	2,2
Petroleum, chemical products, rubber and plastic products	22,5	22,1	25,1
Petroleum products	9,1	8,5	8,0
Basic chemicals	4,0	4,5	5,8
Other chemical products	5,4	5,3	7,4
Rubber products	1,1	1,0	1,2
Plastic products	3,0	2,7	2,7
Glass and non-metallic mineral products	3,9	4,8	4,9
Glass and glass products	1,1	1,0	0,8
Non-metallic mineral products	2,9	3,8	4,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,4	22,9	20,3
Basic iron and steel products	5,5	7,7	4,4
Non-ferrous metal products	4,7	3,4	3,5
Structural metal products	1,3	2,0	1,9
Other fabricated metal products	4,2	3,8	3,8
General purpose machinery	2,4	2,4	2,3
Special purpose machinery	3,2	3,1	3,5
Household appliances	1,2	0,6	0,9
Electrical machinery	2,7	2,5	2,4
Radio, television and communication apparatus and professional equipment	1,3	1,1	1,3
Radio, television and communication apparatus	0,7	0,4	0,8
Professional equipment	0,6	0,7	0,5
Motor vehicles, parts and accessories and other transport equipment	8,6	10,9	7,9
Motor vehicles	4,1	4,9	3,2
Bodies for motor vehicles, trailers and semi-trailers	0,4	0,5	0,6
Parts and accessories	3,1	4,7	2,9
Other transport equipment	1,0	0,9	1,2
Other manufacturing divisions	5,8	5,2	3,2
Furniture	1,6	1,3	0,9
Other manufacturing groups	4,2	3,9	2,3
Total	100,0	100,0	100,0

General information

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English.

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