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Manufacturing: Production and sales (Preliminary)

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Key figures for July 2012

Table A – Manufacturing production and sales

Estimates	July 2012	% change between July 2011 and July 2012	% change between May to July 2011 and May to July 2012	% change between January to July 2011 and January to July 2012
Physical volume of manufacturing production index (base: 2005=100)	105,2	5,8	3,6	2,1
Total estimated sales of manufactured products (R million)	124 325	12,7	10,0	9,7

Seasonally adjusted estimates	July 2012	% change between June and July 2012	% change between February to April 2012 and May to July 2012
Physical volume of manufacturing production index (base: 2005=100)	103,4	-1,1	0,1
Total value of sales of manufactured products (R million)	123 349	-1,0	-0,5

Manufacturing production increased by 5,8% in July 2012 compared with July 2011.

The 5,8% year-on-year increase in manufacturing production in July 2012 was mainly due to higher production in the following divisions:

- petroleum, chemical products, rubber and plastic products (6,9% and contributing 1,7 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (9,0% and contributing 1,7 percentage points); and
- food and beverages (7,4% and contributing 1,3 percentage points) (see Table 4b).

Seasonally adjusted manufacturing production for the three months ended July 2012 increased by 0,1% compared with the previous three months. Five of the ten manufacturing divisions reported positive growth rates over this period.

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

- motor vehicles, parts and accessories and other transport equipment (3,7% and contributing 0,4 of a percentage point);
- food and beverages (2,2% and contributing 0,4 of a percentage point);
- petroleum, chemical products, rubber and plastic products (1,3% and contributing 0,3 of a percentage point); and
- electrical machinery (9,7% and contributing 0,3 of a percentage point) (see Table B).

These increases were to a large extent counteracted by lower production recorded for the basic iron and steel, non-ferrous metal products, metal products and machinery division (-6,4% and contributing -1,3 percentage points).

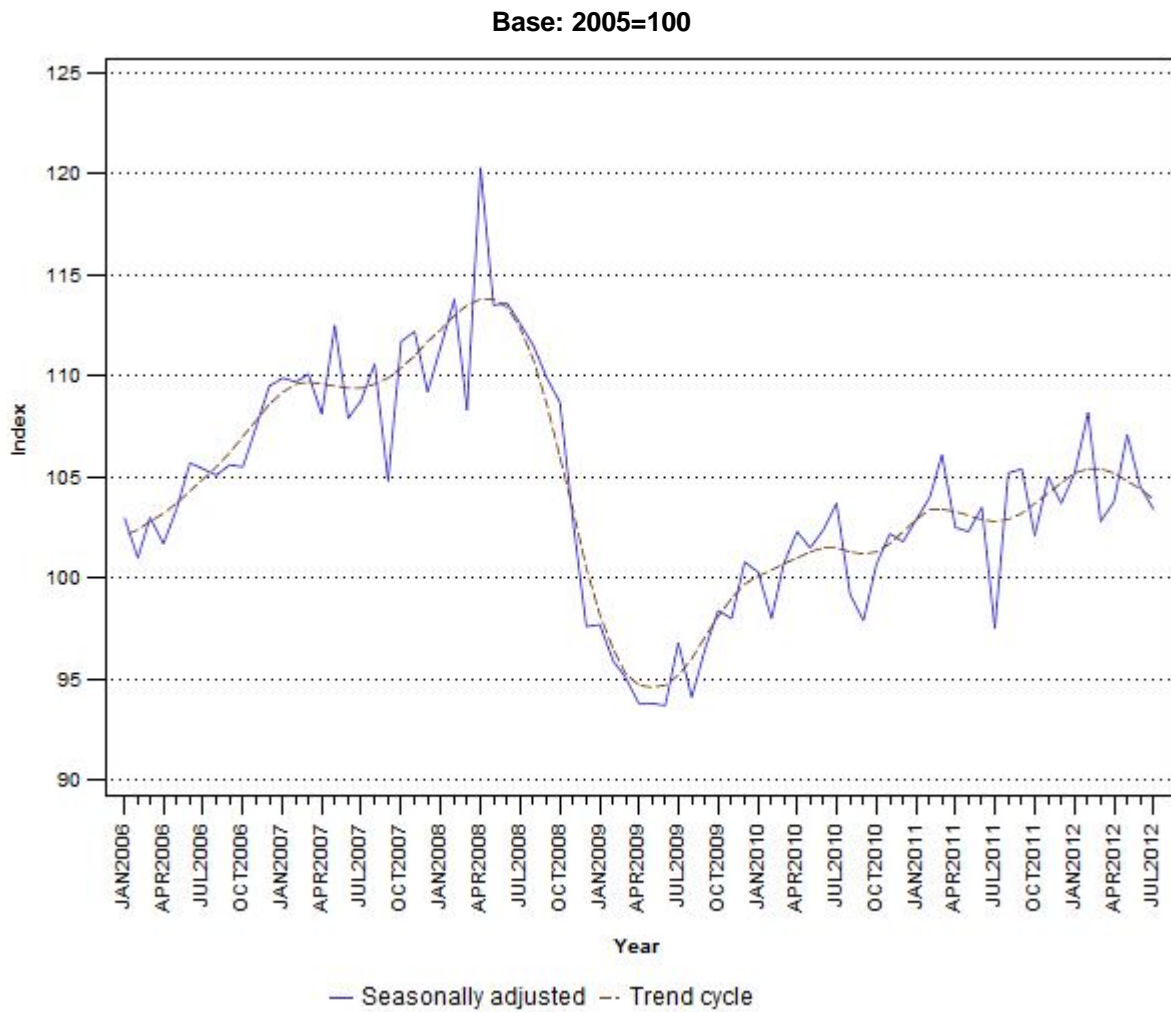
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2005=100

Manufacturing divisions and major groups	Weights 2005	Average seasonally adjusted production index for February to April 2012	Average seasonally adjusted production index for May to July 2012	Quarterly % change of May to July 2012 compared with the preceding three months	Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/
Food and beverages	15,4	120,8	123,4	2,2	0,4
-Meat, fish, fruit, etc.	1,8	120,3	125,8	4,6	0,1
-Dairy products	0,8	122,2	124,1	1,6	0,0
-Grain mill products	0,8	110,2	116,4	5,6	0,0
-Other food products	5,2	117,3	122,0	4,0	0,2
-Beverages	6,8	124,7	124,6	-0,1	0,0
Textiles, clothing, leather and footwear	4,9	82,4	80,7	-2,1	-0,1
-Textiles	1,6	65,8	64,1	-2,6	0,0
-Wearing apparel	2,3	83,6	84,0	0,5	0,0
-Leather and leather products	0,6	98,4	95,6	-2,8	0,0
-Footwear	0,4	114,4	103,4	-9,6	0,0
Wood and wood products, paper, publishing and printing	10,2	96,8	96,1	-0,7	-0,1
-Wood and products of wood	2,0	88,1	89,3	1,4	0,0
-Paper and paper products	3,8	111,4	110,9	-0,4	0,0
-Publishing and printing	4,3	87,7	86,0	-1,9	-0,1
Petroleum, chemical products, rubber and plastic products	22,1	115,9	117,4	1,3	0,3
-Coke, petroleum products and nuclear fuel	8,5	93,8	92,6	-1,3	-0,1
-Basic chemicals	4,5	135,2	128,4	-5,0	-0,3
-Other chemical products	5,3	119,7	132,0	10,3	0,6
-Rubber products	1,0	97,5	98,9	1,4	0,0
-Plastic products	2,7	152,6	155,1	1,6	0,1
Glass and non-metallic mineral products	4,8	98,3	97,5	-0,8	0,0
-Glass and glass products	1,0	117,0	118,2	1,0	0,0
-Non-metallic mineral products	3,8	93,6	92,3	-1,4	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	93,8	87,8	-6,4	-1,3
-Basic iron and steel products	7,7	77,8	67,1	-13,8	-0,8
-Basic precious, non-ferrous metal products	3,4	97,9	87,2	-10,9	-0,3
-Fabricated metal products	5,7	112,0	108,2	-3,4	-0,2
-Machinery and equipment	6,1	94,6	95,1	0,5	0,0
Electrical machinery	2,5	127,2	139,5	9,7	0,3
Radio, television and communication apparatus and professional equipment	1,1	108,3	107,8	-0,5	0,0
-Radio, television and communication apparatus	0,4	109,7	113,8	3,7	0,0
-Professional equipment	0,7	107,4	103,9	-3,3	0,0
Motor vehicles, parts and accessories and other transport equipment	10,9	104,6	108,5	3,7	0,4
-Motor vehicles	4,9	103,5	112,4	8,6	0,4
-Bodies for motor vehicles, trailers and semi-trailers	0,5	135,3	131,5	-2,8	0,0
-Parts and accessories	4,7	102,1	100,9	-1,2	-0,1
-Other transport equipment	0,9	108,4	115,4	6,5	0,1
Furniture and other manufacturing division	5,2	92,4	96,0	3,9	0,2
-Furniture	1,3	99,6	106,6	7,0	0,1
-Other manufacturing groups	3,9	90,0	92,6	2,9	0,1
Total	100,0	104,9	105,0	0,1	0,1

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

Figure 1 – Index of the physical volume of manufacturing production: 2006 – 2012



Seasonally adjusted sales of manufactured products (at current prices) decreased by 0,5% (-R1 792 million) in the three months ended July 2012 compared with the previous three months. Four of the ten manufacturing divisions reported negative growth rates over this period.

The manufacturing divisions that were mainly responsible for the decrease in total manufacturing sales were:

- petroleum, chemical products, rubber and plastic products (-3,5% or -R3 238 million); and
- basic iron and steel, non-ferrous metal products, metal products and machinery (-3,4% or -R2 850 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 2012	Seasonally adjusted sales May to July 2012	% change between February to April 2012 and May to July 2012	Difference in seasonally adjusted sales of manufacturing divisions between February to April 2012 and May to July 2012
	R'000	R'000	%	R'000
Food and beverages	74 819 430	76 924 660	2,8	2 105 230
-Food and food products	56 329 946	57 600 659	2,3	1 270 713
-Beverages	18 489 484	19 323 999	4,5	834 515
Textiles, clothing, leather and footwear	9 847 602	9 919 330	0,7	71 728
-Textiles	3 625 230	3 602 188	-0,6	-23 042
-Wearing apparel	4 018 601	4 095 398	1,9	76 797
-Leather and leather products	1 297 822	1 334 722	2,8	36 900
-Footwear	905 949	887 024	-2,1	-18 925
Wood and wood products, paper, publishing and printing	29 003 036	28 698 214	-1,1	-304 822
-Wood and products of wood	6 314 437	6 380 256	1,0	65 819
-Paper and paper products	12 987 546	12 757 055	-1,8	-230 491
-Publishing and printing	9 701 053	9 560 904	-1,4	-140 149
Petroleum, chemical products, rubber and plastic products	92 647 350	89 409 458	-3,5	-3 237 892
-Coke, petroleum products and nuclear fuel	41 732 449	36 406 448	-12,8	-5 326 001
-Basic chemicals	18 725 940	18 444 688	-1,5	-281 252
-Other chemical products	17 609 745	19 500 199	10,7	1 890 454
-Rubber products	3 959 880	4 011 073	1,3	51 193
-Plastic products	10 619 337	11 047 050	4,0	427 713
Glass and non-metallic mineral products	11 679 569	12 096 319	3,6	416 750
-Glass and glass products	1 949 186	2 022 344	3,8	73 158
-Non-metallic mineral products	9 730 381	10 073 976	3,5	343 595
Basic iron and steel, non-ferrous metal products, metal products and machinery	83 136 601	80 287 094	-3,4	-2 849 507
-Basic iron and steel products	26 202 791	23 560 357	-10,1	-2 642 434
-Basic precious, non-ferrous metal products	15 193 829	15 006 145	-1,2	-187 684
-Fabricated metal products	21 512 827	21 138 297	-1,7	-374 530
-Machinery and equipment	20 227 154	20 582 295	1,8	355 141
Electrical machinery	11 429 663	11 824 619	3,5	394 956
Radio, television and communication apparatus and professional equipment	3 658 556	3 728 951	1,9	70 395
-Radio, television and communication apparatus	1 734 598	1 846 568	6,5	111 970
-Professional equipment	1 923 958	1 882 384	-2,2	-41 574
Motor vehicles, parts and accessories and other transport equipment	45 262 393	46 809 054	3,4	1 546 661
-Motor vehicles, trailers, parts and accessories	40 982 156	42 291 561	3,2	1 309 405
-Other transport equipment	4 280 237	4 517 492	5,5	237 255
Furniture and other manufacturing division	15 859 446	15 853 472	0,0	-5 974
-Furniture	3 349 809	3 601 417	7,5	251 608
-Other manufacturing groups	12 509 637	12 252 056	-2,1	-257 581
Total	377 343 645	375 551 170	-0,5	-1 792 475

Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2006 – 2012



PJ Lehohla
Statistician-General

Article: 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 2012, which replaces the previous sample that was drawn in April 2011. The sample was drawn from a business register of enterprises with an annual turnover of at least R1 241 812 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.

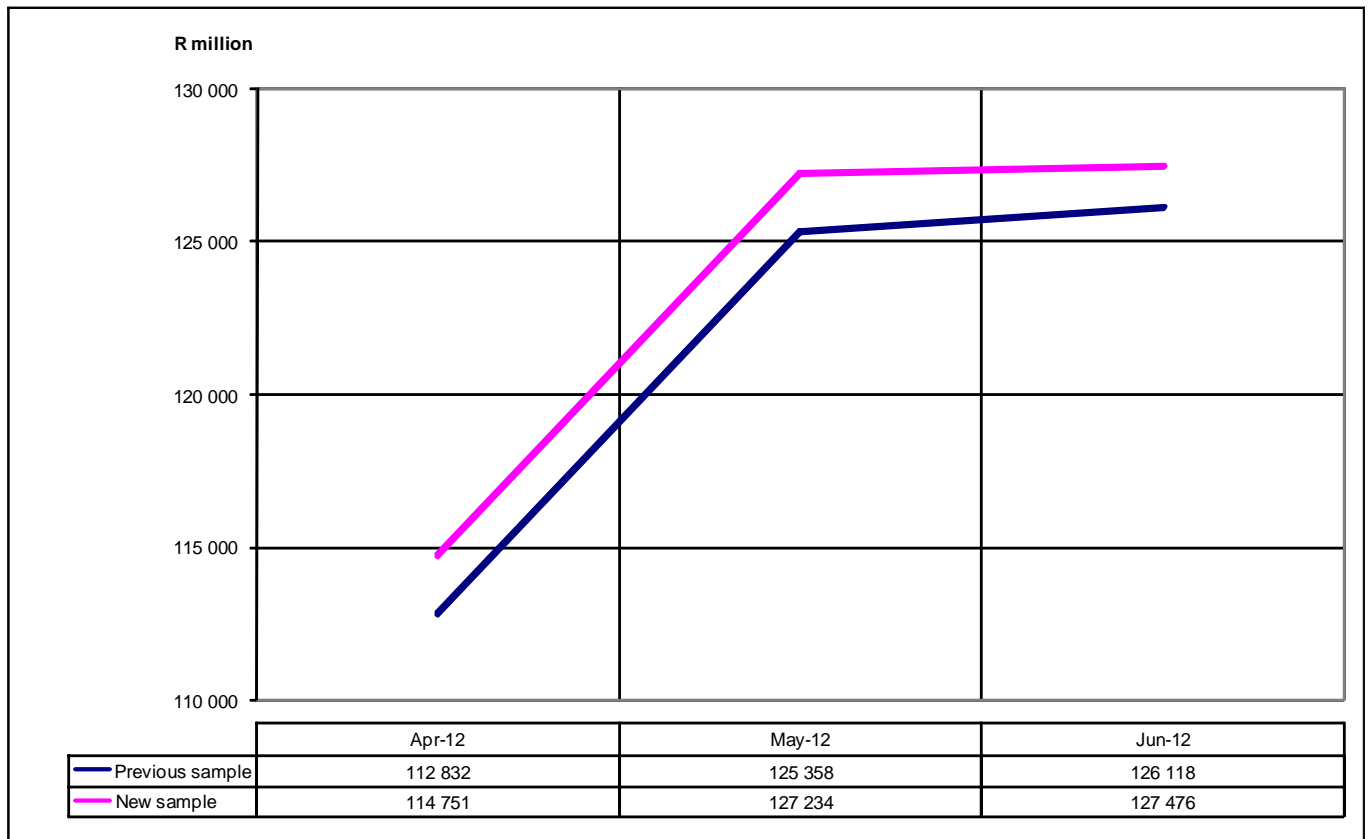
Comparison of total sales between the previous and new samples of the manufacturing industry

The reported level of total sales for the monthly survey of the manufacturing industry for the months April to June 2012 based on the new sample was 1,4% 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 2011 and was operational for the last half of 2011 and the first half of 2012.

Table D – Total sales for previous and new samples for the manufacturing industry – April to June 2012

Manufacturing industry	Previous sample (R million)	New sample (R million)	Difference (R million)	Difference (percentage)
	364 307	369 461	5 154	1,4

Figure A – Total value of sales of manufactured products: monthly levels of previous and new samples for April to June 2012



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.

The largest changes took place in the following divisions:

- food and beverages (3,8% or R2 666 million higher in the new sample);
- motor vehicles, parts and accessories and other transport equipment (4,7% or R2 027 million);
- basic iron and steel, non-ferrous metal products, metal products and machinery (2,0% or R1 584 million); and
- petroleum, chemical products, rubber and plastic products (-2,6% or -R2 408 million).

Various data quality improvements account for these differences, for example the reclassification of enterprises from one industry to another.

Table E – Manufacturing sales for previous and new samples by division: April to June 2012

Manufacturing divisions	Previous sample	New sample	Difference	Difference
	R million	R million	(R million)	(percentage) 1/
Food and beverages	69 974	72 640	2 666	3,8
Textiles, clothing, leather and footwear	9 962	9 830	-132	-1,3
Wood and wood products, paper, publishing and printing	27 670	27 785	115	0,4
Petroleum, chemical products, rubber and plastic products	92 784	90 376	-2 408	-2,6
Glass and non-metallic mineral products	11 107	11 637	530	4,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	79 296	80 880	1 584	2,0
Electrical machinery	11 185	11 629	444	4,0
Radio, television and communication apparatus and professional equipment	3 793	3 551	-242	-6,4
Motor vehicles, parts and accessories and other transport equipment	43 470	45 497	2 027	4,7
Furniture and other manufacturing divisions	15 067	15 635	568	3,8
Total manufacturing	364 307	369 461	5 154	1,4

1/ The percentage difference is the difference between the April to June 2012 sales as recorded in the new sample divided by the April to June 2012 sales as recorded in the previous sample, expressed as a percentage.

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 2012 as the end point for the backcast series.

Detailed results

Table 1 – Total index of the physical volume of manufacturing production: 2006 – 2012

Base: 2005=100

Month	2006	2007	2008	2009	2010	2011	2012
Jan	89,7	95,0	95,9	83,4	85,9	88,0	90,0
Feb	96,7	104,7	108,5	91,5	93,7	99,7	103,8
Mar	106,2	113,6	111,9	98,3	104,7	110,4	107,2
Apr	95,6	101,0	111,9	87,1	94,6	94,7	95,4
May	104,3	113,4	114,3	94,1	101,9	102,8	1/ 107,3
Jun	106,7	109,2	115,1	94,9	103,8	104,9	1/ 105,8
Jul	107,4	111,2	115,2	98,9	106,0	99,4	1/ 105,2
Aug	108,8	114,4	114,9	96,7	101,7	107,7	
Sep	109,7	108,9	114,2	100,7	102,1	110,5	
Oct	117,0	124,1	121,1	109,1	111,8	113,2	
Nov	119,1	124,3	114,3	108,4	113,7	117,1	
Dec	96,6	96,5	87,8	90,2	90,9	93,1	
Year	104,8	109,7	110,4	96,1	100,9	103,5	

1/ Preliminary.

Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2006 – 2012 2/

Month	2006	2007	2008	2009	2010	2011	2012
Jan	5,8	5,9	0,9	-13,0	3,0	2,4	2,3
Feb	1,6	8,3	3,6	-15,7	2,4	6,4	4,1
Mar	4,9	7,0	-1,5	-12,2	6,5	5,4	-2,9
Apr	-0,9	5,6	10,8	-22,2	8,6	0,1	0,7
May	3,9	8,7	0,8	-17,7	8,3	0,9	4,4
Jun	6,4	2,3	5,4	-17,5	9,4	1,1	0,9
Jul	6,2	3,5	3,6	-14,1	7,2	-6,2	5,8
Aug	5,1	5,1	0,4	-15,8	5,2	5,9	
Sep	2,0	-0,7	4,9	-11,8	1,4	8,2	
Oct	9,2	6,1	-2,4	-9,9	2,5	1,3	
Nov	7,5	4,4	-8,0	-5,2	4,9	3,0	
Dec	5,7	-0,1	-9,0	2,7	0,8	2,4	
Year	4,8	4,7	0,6	-13,0	5,0	2,6	

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: 2006 – 2012

Base: 2005=100

Month	2006	2007	2008	2009	2010	2011	2012
Jan	103,0	109,9	111,5	97,7	100,3	102,9	105,2
Feb	101,0	109,7	113,8	95,9	98,0	104,0	108,2
Mar	103,0	110,1	108,3	95,1	100,7	106,1	102,8
Apr	101,7	108,1	120,3	93,8	102,3	102,5	103,8
May	103,4	112,5	113,5	93,8	101,5	102,3	107,1
Jun	105,7	107,9	113,6	93,7	102,4	103,5	104,5
Jul	105,4	108,8	112,6	96,8	103,7	97,5	103,4
Aug	105,1	110,6	111,5	94,1	99,2	105,2	
Sep	105,6	104,8	109,9	96,5	97,9	105,4	
Oct	105,5	111,7	108,7	98,4	100,7	102,1	
Nov	107,5	112,2	102,7	98,0	102,2	105,0	
Dec	109,5	109,2	97,6	100,8	101,8	103,7	

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

Base: 2005=100

Manufacturing divisions and major groups	Weights 2005	Average for 2011	Actual indices			Seasonally adjusted indices		
			July 2011	1/ June 2012	1/ July 2012	July 2011	June 2012	July 2012
Food and beverages	15,4	119,2	110,3	117,3	118,5	114,0	119,8	122,6
-Meat, fish, fruit, etc.	1,8	120,2	119,0	124,2	119,8	121,1	123,0	121,5
-Dairy products	0,8	118,1	108,8	113,2	113,3	116,8	124,9	121,8
-Grain mill products	0,8	109,3	105,7	116,6	120,6	102,9	114,1	117,4
-Other food products	5,2	115,8	119,2	127,6	131,9	109,6	114,5	120,8
-Beverages	6,8	123,0	101,9	108,2	108,4	116,6	123,0	125,0
Textiles, clothing, leather and footwear	4,9	81,9	82,7	80,0	81,9	81,8	80,5	81,0
-Textiles	0,7	60,5	60,6	50,6	56,2	58,7	49,1	54,4
-Other textile products	0,9	72,7	73,2	75,9	71,2	72,6	75,1	70,4
-Knitted, crocheted articles	0,2	90,2	83,3	69,4	69,7	87,2	67,2	73,5
-Wearing apparel	2,1	83,2	83,6	83,2	88,4	83,3	85,2	88,0
-Leather and leather products	0,6	95,0	92,1	100,0	88,6	92,8	94,9	89,4
-Footwear	0,4	106,2	119,1	93,9	107,6	112,1	101,8	101,3
Wood and wood products, paper, publishing and printing	10,2	97,7	90,8	97,3	94,2	91,9	97,2	95,4
-Sawmilling and planing of wood	0,7	87,0	90,1	89,0	96,1	84,4	90,1	90,2
-Products of wood	1,3	88,5	85,6	87,6	92,3	84,6	86,5	91,1
-Paper and paper products	3,8	110,9	98,2	117,2	106,8	100,8	112,1	109,6
-Publishing	1,9	87,0	82,7	81,6	77,5	84,9	84,2	79,6
-Printing, recorded media	2,5	93,0	88,3	85,8	87,9	89,2	91,5	88,9
Petroleum, chemical products, rubber and plastic products	22,1	113,0	113,5	120,3	121,3	107,8	117,8	115,5
-Coke, petroleum products and nuclear fuel	8,5	88,7	101,4	101,6	104,6	89,5	94,4	91,9
-Basic chemicals	4,5	131,9	128,7	126,4	127,7	124,7	126,2	124,2
-Other chemical products	5,3	121,6	108,6	131,2	131,6	109,1	131,6	132,5
-Rubber products	1,0	96,7	104,4	100,0	97,2	100,2	100,1	93,7
-Plastic products	2,7	146,9	139,5	154,3	151,8	137,6	156,2	149,9
Glass and non-metallic mineral products	4,8	96,6	101,4	99,4	101,6	96,0	95,6	96,2
-Glass and glass products	1,0	116,4	121,9	109,8	126,9	119,7	111,4	123,9
-Non-metallic mineral products	3,8	91,7	96,3	96,8	95,3	90,1	91,7	89,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	91,8	81,4	88,4	88,7	79,7	87,2	86,9
-Basic iron and steel products	7,7	78,4	65,9	69,8	63,9	67,1	67,2	65,7
-Non-ferrous metal products	3,4	109,2	105,0	81,7	93,6	101,7	84,2	90,6
-Structural metal products	2,0	89,9	84,7	93,8	89,9	81,6	90,3	87,2
-Other fabricated metal products	3,8	112,0	97,3	122,6	125,5	88,9	119,5	114,8
-General purpose machinery	2,4	72,7	61,6	77,0	76,4	61,2	78,4	76,1
-Special purpose machinery	3,1	95,1	86,0	100,4	101,9	87,0	100,2	103,6
-Household appliances	0,6	101,4	88,7	117,7	122,7	86,6	116,1	119,6
Electrical machinery	2,5	130,0	122,0	142,3	141,3	118,7	139,1	138,2
Radio, television and communication apparatus and professional equipment	1,1	105,9	110,1	112,7	113,2	102,5	109,6	105,2
-Radio, television and communication apparatus	0,4	104,2	114,0	116,6	124,8	103,7	117,4	113,1
-Professional equipment	0,7	107,0	107,6	110,3	105,8	101,7	104,7	100,2
Motor vehicles, parts and accessories and other transport equipment	10,9	103,1	102,6	113,6	108,6	99,0	109,4	105,3
-Motor vehicles	4,9	96,5	100,2	118,2	116,6	94,4	114,5	110,8
-Bodies for motor vehicles, trailers and semi-trailers	0,5	126,9	115,0	125,7	132,4	112,9	120,2	130,7
-Parts and accessories	4,7	104,7	102,2	105,5	95,9	99,9	102,2	94,3
-Other transport equipment	0,9	117,7	110,4	124,5	118,8	111,9	112,8	119,8
Furniture and other manufacturing division	5,2	92,9	97,0	98,0	91,5	96,2	95,5	90,9
-Furniture	1,3	93,8	92,1	107,8	109,5	89,2	106,8	106,4
-Other manufacturing groups	3,9	92,6	98,6	94,8	85,5	98,6	91,8	85,7
Total	100,0	103,5	99,4	105,8	105,2	97,5	104,5	103,4

1/ Preliminary.

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

Base: 2005=100

Manufacturing divisions and major groups	Weights 2005	Average for 2011	Actual indices			Seasonally adjusted indices		
			July 2011	1/ July 2012	% change between July 2011 and July 2012	June 2012	July 2012	% change between June and July 2012
Food and beverages	15,4	119,2	110,3	118,5	7,4	119,8	122,6	2,3
-Meat, fish, fruit, etc.	1,8	120,2	119,0	119,8	0,7	123,0	121,5	-1,2
-Dairy products	0,8	118,1	108,8	113,3	4,1	124,9	121,8	-2,5
-Grain mill products	0,8	109,3	105,7	120,6	14,1	114,1	117,4	2,9
-Other food products	5,2	115,8	119,2	131,9	10,7	114,5	120,8	5,5
-Beverages	6,8	123,0	101,9	108,4	6,4	123,0	125,0	1,6
Textiles, clothing, leather and footwear	4,9	81,9	82,7	81,9	-1,0	80,5	81,0	0,6
-Textiles	0,7	60,5	60,6	56,2	-7,3	49,1	54,4	10,8
-Other textile products	0,9	72,7	73,2	71,2	-2,7	75,1	70,4	-6,3
-Knitted, crocheted articles	0,2	90,2	83,3	69,7	-16,3	67,2	73,5	9,4
-Wearing apparel	2,1	83,2	83,6	88,4	5,7	85,2	88,0	3,3
-Leather and leather products	0,6	95,0	92,1	88,6	-3,8	94,9	89,4	-5,8
-Footwear	0,4	106,2	119,1	107,6	-9,7	101,8	101,3	-0,5
Wood and wood products, paper, publishing and printing	10,2	97,7	90,8	94,2	3,7	97,2	95,4	-1,9
-Sawmilling and planing of wood	0,7	87,0	90,1	96,1	6,7	90,1	90,2	0,1
-Products of wood	1,3	88,5	85,6	92,3	7,8	86,5	91,1	5,3
-Paper and paper products	3,8	110,9	98,2	106,8	8,8	112,1	109,6	-2,2
-Publishing	1,9	87,0	82,7	77,5	-6,3	84,2	79,6	-5,5
-Printing, recorded media	2,5	93,0	88,3	87,9	-0,5	91,5	88,9	-2,8
Petroleum, chemical products, rubber and plastic products	22,1	113,0	113,5	121,3	6,9	117,8	115,5	-2,0
-Coke, petroleum products and nuclear fuel	8,5	88,7	101,4	104,6	3,2	94,4	91,9	-2,6
-Basic chemicals	4,5	131,9	128,7	127,7	-0,8	126,2	124,2	-1,6
-Other chemical products	5,3	121,6	108,6	131,6	21,2	131,6	132,5	0,7
-Rubber products	1,0	96,7	104,4	97,2	-6,9	100,1	93,7	-6,4
-Plastic products	2,7	146,9	139,5	151,8	8,8	156,2	149,9	-4,0
Glass and non-metallic mineral products	4,8	96,6	101,4	101,6	0,2	95,6	96,2	0,6
-Glass and glass products	1,0	116,4	121,9	126,9	4,1	111,4	123,9	11,2
-Non-metallic mineral products	3,8	91,7	96,3	95,3	-1,0	91,7	89,3	-2,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	91,8	81,4	88,7	9,0	87,2	86,9	-0,3
-Basic iron and steel products	7,7	78,4	65,9	63,9	-3,0	67,2	65,7	-2,2
-Non-ferrous metal products	3,4	109,2	105,0	93,6	-10,9	84,2	90,6	7,6
-Structural metal products	2,0	89,9	84,7	89,9	6,1	90,3	87,2	-3,4
-Other fabricated metal products	3,8	112,0	97,3	125,5	29,0	119,5	114,8	-3,9
-General purpose machinery	2,4	72,7	61,6	76,4	24,0	78,4	76,1	-2,9
-Special purpose machinery	3,1	95,1	86,0	101,9	18,5	100,2	103,6	3,4
-Household appliances	0,6	101,4	88,7	122,7	38,3	116,1	119,6	3,0
Electrical machinery	2,5	130,0	122,0	141,3	15,8	139,1	138,2	-0,6
Radio, television and communication apparatus and professional equipment	1,1	105,9	110,1	113,2	2,8	109,6	105,2	-4,0
-Radio, television and communication apparatus	0,4	104,2	114,0	124,8	9,5	117,4	113,1	-3,7
-Professional equipment	0,7	107,0	107,6	105,8	-1,7	104,7	100,2	-4,3
Motor vehicles, parts and accessories and other transport equipment	10,9	103,1	102,6	108,6	5,8	109,4	105,3	-3,7
-Motor vehicles	4,9	96,5	100,2	116,6	16,4	114,5	110,8	-3,2
-Bodies for motor vehicles, trailers and semi-trailers	0,5	126,9	115,0	132,4	15,1	120,2	130,7	8,7
-Parts and accessories	4,7	104,7	102,2	95,9	-6,2	102,2	94,3	-7,7
-Other transport equipment	0,9	117,7	110,4	118,8	7,6	112,8	119,8	6,2
Furniture and other manufacturing division	5,2	92,9	97,0	91,5	-5,7	95,5	90,9	-4,8
-Furniture	1,3	93,8	92,1	109,5	18,9	106,8	106,4	-0,4
-Other manufacturing groups	3,9	92,6	98,6	85,5	-13,3	91,8	85,7	-6,6
Total	100,0	103,5	99,4	105,2	5,8	104,5	103,4	-1,1

1/ Preliminary.

Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2006 – 2012

Month	*2006	*2007	*2008	*2009	*2010	*2011	2012
Jan	68 501 312	82 751 979	92 718 406	87 095 583	88 149 838	94 246 838	* 104 935 789
Feb	76 254 560	94 752 037	109 968 010	98 910 325	99 414 819	108 823 746	* 122 863 314
Mar	84 627 558	101 801 537	116 559 343	106 853 461	112 150 984	123 042 345	* 130 042 791
Apr	75 920 578	92 055 334	118 743 978	91 481 056	99 179 387	105 427 353	114 751 285
May	85 323 073	103 294 995	122 009 401	97 891 568	106 725 647	114 987 796	1/ 127 234 354
Jun	89 191 215	100 363 915	126 717 920	99 620 665	110 984 952	119 312 466	1/ 127 475 764
Jul	90 340 495	101 001 703	130 306 185	101 194 755	110 310 285	110 290 349	1/ 124 324 906
Aug	94 106 608	106 756 672	128 075 397	102 171 776	107 873 773	121 774 032	
Sep	96 312 774	102 072 116	127 557 225	106 385 385	110 151 480	129 822 841	
Oct	101 657 037	115 324 079	133 838 287	111 499 001	118 674 521	130 325 799	
Nov	105 210 421	117 861 959	124 514 657	113 598 170	123 230 894	135 588 107	
Dec	83 953 143	93 460 862	97 565 655	96 538 722	101 389 781	114 218 802	
Year	1 051 398 774	1 211 497 188	1 428 574 464	1 213 240 467	1 288 236 361	1 407 860 474	

1/ Preliminary.

* Revised. See note 26 in the explanatory notes, page 19.

Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2006 – 2012 2/

Month	2006	2007	2008	2009	2010	2011	2012
Jan	11,1	20,8	12,0	-6,1	1,2	6,9	11,3
Feb	6,9	24,3	16,1	-10,1	0,5	9,5	12,9
Mar	11,5	20,3	14,5	-8,3	5,0	9,7	5,7
Apr	1,5	21,3	29,0	-23,0	8,4	6,3	8,8
May	10,7	21,1	18,1	-19,8	9,0	7,7	10,7
Jun	13,4	12,5	26,3	-21,4	11,4	7,5	6,8
Jul	14,9	11,8	29,0	-22,3	9,0	0,0	12,7
Aug	15,9	13,4	20,0	-20,2	5,6	12,9	
Sep	14,3	6,0	25,0	-16,6	3,5	17,9	
Oct	20,8	13,4	16,1	-16,7	6,4	9,8	
Nov	19,6	12,0	5,6	-8,8	8,5	10,0	
Dec	12,4	11,3	4,4	-1,1	5,0	12,7	
Year	13,0	15,2	17,9	-15,1	6,2	9,3	

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

Table 7 – Total seasonally adjusted sales of the manufacturing industry at current prices (R'000): 2006 – 2012

Month	2006	2007	2008	2009	2010	2011	2012
Jan	81 517 338	98 490 973	110 211 520	104 141 798	105 159 199	112 135 961	124 098 111
Feb	79 525 354	99 108 150	115 348 303	103 398 760	103 568 530	113 388 398	128 544 599
Mar	82 413 187	98 752 138	112 829 521	102 996 206	107 314 566	117 659 353	124 436 354
Apr	81 107 087	98 667 667	127 543 598	98 629 191	107 226 996	114 013 023	124 362 692
May	85 060 112	102 821 916	121 298 645	98 228 666	106 939 012	115 074 840	127 624 490
Jun	87 747 872	98 371 538	123 573 958	97 635 316	108 502 437	116 529 340	124 577 930
Jul	88 634 585	98 955 384	127 259 622	99 649 118	108 875 011	109 195 672	123 348 750
Aug	90 916 724	103 246 117	123 685 904	99 383 930	105 625 000	119 448 800	
Sep	91 249 283	96 794 012	120 967 856	100 816 026	104 168 342	122 602 072	
Oct	92 455 800	104 717 932	121 603 794	101 542 011	108 296 393	119 307 242	
Nov	94 691 631	106 128 374	112 018 122	102 180 594	110 629 525	122 021 622	
Dec	94 135 040	105 004 705	108 175 039	106 222 704	111 385 499	125 471 746	

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 2011	Actual values			Seasonally adjusted values		
		* July 2011	1/ June 2012	1/ July 2012	July 2011	June 2012	July 2012
Food and beverages	280 767 606	22 068 205	24 432 603	24 781 613	22 762 435	24 930 765	25 603 473
-Meat, fish, fruit, etc.	73 509 709	5 953 060	6 535 482	6 593 929	6 056 473	6 586 401	6 715 399
-Dairy products	24 682 334	1 962 509	2 132 915	2 184 445	2 018 499	2 336 078	2 245 825
-Grain mill products	46 889 771	3 794 452	4 441 060	4 534 402	3 679 148	4 306 199	4 410 753
-Other food products	64 239 523	5 413 095	5 846 389	5 839 117	5 329 735	5 596 791	5 730 286
-Beverages	71 446 269	4 945 089	5 476 757	5 629 720	5 678 581	6 105 295	6 501 210
Textiles, clothing, leather and footwear	38 540 626	3 189 605	3 348 055	3 312 808	3 170 374	3 346 614	3 294 331
-Textiles	4 426 801	356 712	346 133	357 421	354 308	325 946	357 090
-Other textile products	10 082 035	856 182	925 255	841 666	835 185	918 977	820 137
-Knitted, crocheted articles	1 961 494	161 167	141 502	136 392	164 331	133 579	139 137
-Wearing apparel	13 859 807	1 159 413	1 194 920	1 268 190	1 154 744	1 226 205	1 261 165
-Leather and leather products	4 873 890	375 792	458 987	423 450	384 469	441 584	434 070
-Footwear	3 336 599	280 339	281 258	285 689	277 335	300 323	282 734
Wood and wood products, paper, publishing and printing	111 824 849	8 783 439	9 930 558	9 364 166	8 909 921	9 692 165	9 508 311
-Sawmilling and planing of wood	8 297 609	721 162	737 477	775 669	688 225	748 164	742 860
-Products of wood	15 877 870	1 317 555	1 400 769	1 415 210	1 310 631	1 378 681	1 405 197
-Paper and paper products	49 458 557	3 732 202	4 645 051	4 068 794	3 847 438	4 270 868	4 202 594
-Publishing	16 049 876	1 257 617	1 330 126	1 266 992	1 293 163	1 363 924	1 303 395
-Printing, recorded media	22 140 937	1 754 903	1 817 135	1 837 501	1 770 465	1 930 528	1 854 265
Petroleum, chemical products, rubber and plastic products	318 352 312	24 851 125	30 795 304	29 927 778	24 113 585	29 498 981	29 134 742
-Coke, petroleum products and nuclear fuel	124 093 250	10 195 689	13 134 862	12 907 193	9 264 556	11 981 390	11 820 301
-Basic chemicals	70 819 287	5 113 211	6 175 122	5 650 140	5 346 255	5 994 206	5 937 157
-Other chemical products	68 766 255	5 167 651	6 496 999	6 446 095	5 221 682	6 492 209	6 541 648
-Rubber products	14 986 294	1 320 115	1 353 157	1 328 118	1 252 225	1 354 941	1 261 037
-Plastic products	39 687 226	3 054 459	3 635 164	3 596 232	3 028 866	3 676 234	3 574 600
Glass and non-metallic mineral products	44 849 547	3 842 720	4 041 005	4 094 692	3 674 375	3 930 890	3 922 340
-Glass and glass products	7 240 340	618 375	611 703	677 481	648 364	628 928	708 858
-Non-metallic mineral products	37 609 207	3 224 345	3 429 302	3 417 211	3 026 011	3 301 962	3 213 482
Basic iron and steel, non-ferrous metal products, metal products and machinery	312 532 861	22 378 073	27 812 492	26 248 214	22 006 746	26 712 066	25 943 577
-Basic iron and steel products	99 408 140	6 388 655	8 493 289	7 298 508	6 531 592	7 677 930	7 565 096
-Non-ferrous metal products	61 809 327	4 638 693	5 272 126	4 980 046	4 591 319	5 241 435	4 947 133
-Structural metal products	25 697 747	2 048 965	2 541 726	2 395 416	1 945 015	2 436 350	2 287 137
-Other fabricated metal products	50 775 598	3 791 295	4 837 108	4 843 440	3 483 824	4 702 222	4 470 236
-General purpose machinery	28 315 464	1 971 694	2 581 675	2 476 528	1 976 019	2 523 599	2 485 210
-Special purpose machinery	37 224 519	2 874 693	3 223 441	3 401 478	2 812 799	3 269 913	3 332 334
-Household appliances	9 302 066	664 078	863 127	852 798	666 178	860 618	856 430
Electrical machinery	43 550 964	3 378 313	4 166 009	4 008 046	3 232 609	4 031 118	3 850 199
Radio, television and communication apparatus and professional equipment	14 051 600	1 205 098	1 286 766	1 315 477	1 162 281	1 260 561	1 262 337
-Radio, television and communication apparatus	6 499 645	566 998	609 381	676 164	538 752	635 523	637 446
-Professional equipment	7 551 955	638 100	677 385	639 313	623 529	625 039	624 891
Motor vehicles, parts and accessories and other transport equipment	182 251 860	15 641 741	16 537 993	16 120 629	15 132 918	16 129 034	15 577 327
-Motor vehicles	92 059 875	8 465 800	8 858 598	8 172 327	8 225 470	8 761 634	7 941 576
-Bodies for motor vehicles, trailers and semi-trailers	8 192 883	644 895	679 024	741 367	618 452	638 005	712 984
-Parts and accessories	64 261 615	5 138 329	5 368 278	5 647 934	4 884 976	5 265 342	5 356 188
-Other transport equipment	17 737 487	1 392 717	1 632 093	1 559 001	1 404 019	1 464 053	1 566 579
Furniture and other manufacturing division	61 138 249	4 952 030	5 124 979	5 151 483	5 030 429	5 045 736	5 252 113
-Furniture	12 246 361	1 012 621	1 205 829	1 224 890	988 940	1 209 346	1 200 153
-Other manufacturing groups	48 891 888	3 939 409	3 919 150	3 926 593	4 041 489	3 836 391	4 051 960
Total	1 407 860 474	110 290 349	127 475 764	124 324 906	109 195 672	124 577 930	123 348 750

1/ Preliminary.

* Revised. See note 26 in the explanatory notes, page 19.

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 2011	Actual values			Seasonally adjusted values		
		* July 2011	1/ July 2012	% change between July 2011 and July 2012	June 2012	July 2012	% change between June and July 2012
Food and beverages	280 767 606	22 068 205	24 781 613	12,3	24 930 765	25 603 473	2,7
-Meat, fish, fruit, etc.	73 509 709	5 953 060	6 593 929	10,8	6 586 401	6 715 399	2,0
-Dairy products	24 682 334	1 962 509	2 184 445	11,3	2 336 078	2 245 825	-3,9
-Grain mill products	46 889 771	3 794 452	4 534 402	19,5	4 306 199	4 410 753	2,4
-Other food products	64 239 523	5 413 095	5 839 117	7,9	5 596 791	5 730 286	2,4
-Beverages	71 446 269	4 945 089	5 629 720	13,8	6 105 295	6 501 210	6,5
Textiles, clothing, leather and footwear	38 540 626	3 189 605	3 312 808	3,9	3 346 614	3 294 331	-1,6
-Textiles	4 426 801	356 712	357 421	0,2	325 946	357 090	9,6
-Other textile products	10 082 035	856 182	841 666	-1,7	918 977	820 137	-10,8
-Knitted, crocheted articles	1 961 494	161 167	136 392	-15,4	133 579	139 137	4,2
-Wearing apparel	13 859 807	1 159 413	1 268 190	9,4	1 226 205	1 261 165	2,9
-Leather and leather products	4 873 890	375 792	423 450	12,7	441 584	434 070	-1,7
-Footwear	3 336 599	280 339	285 689	1,9	300 323	282 734	-5,9
Wood and wood products, paper, publishing and printing	111 824 849	8 783 439	9 364 166	6,6	9 692 165	9 508 311	-1,9
-Sawmilling and planing of wood	8 297 609	721 162	775 669	7,6	748 164	742 860	-0,7
-Products of wood	15 877 870	1 317 555	1 415 210	7,4	1 378 681	1 405 197	1,9
-Paper and paper products	49 458 557	3 732 202	4 068 794	9,0	4 270 868	4 202 594	-1,6
-Publishing	16 049 876	1 257 617	1 266 992	0,7	1 363 924	1 303 395	-4,4
-Printing, recorded media	22 140 937	1 754 903	1 837 501	4,7	1 930 528	1 854 265	-4,0
Petroleum, chemical products, rubber and plastic products	318 352 312	24 851 125	29 927 778	20,4	29 498 981	29 134 742	-1,2
-Coke, petroleum products and nuclear fuel	124 093 250	10 195 689	12 907 193	26,6	11 981 390	11 820 301	-1,3
-Basic chemicals	70 819 287	5 113 211	5 650 140	10,5	5 994 206	5 937 157	-1,0
-Other chemical products	68 766 255	5 167 651	6 446 095	24,7	6 492 209	6 541 648	0,8
-Rubber products	14 986 294	1 320 115	1 328 118	0,6	1 354 941	1 261 037	-6,9
-Plastic products	39 687 226	3 054 459	3 596 232	17,7	3 676 234	3 574 600	-2,8
Glass and non-metallic mineral products	44 849 547	3 842 720	4 094 692	6,6	3 930 890	3 922 340	-0,2
-Glass and glass products	7 240 340	618 375	677 481	9,6	628 928	708 858	12,7
-Non-metallic mineral products	37 609 207	3 224 345	3 417 211	6,0	3 301 962	3 213 482	-2,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	312 532 861	22 378 073	26 248 214	17,3	26 712 066	25 943 577	-2,9
-Basic iron and steel products	99 408 140	6 388 655	7 298 508	14,2	7 677 930	7 565 096	-1,5
-Non-ferrous metal products	61 809 327	4 638 693	4 980 046	7,4	5 241 435	4 947 133	-5,6
-Structural metal products	25 697 747	2 048 965	2 395 416	16,9	2 436 350	2 287 137	-6,1
-Other fabricated metal products	50 775 598	3 791 295	4 843 440	27,8	4 702 222	4 470 236	-4,9
-General purpose machinery	28 315 464	1 971 694	2 476 528	25,6	2 523 599	2 485 210	-1,5
-Special purpose machinery	37 224 519	2 874 693	3 401 478	18,3	3 269 913	3 332 334	1,9
-Household appliances	9 302 066	664 078	852 798	28,4	860 618	856 430	-0,5
Electrical machinery	43 550 964	3 378 313	4 008 046	18,6	4 031 118	3 850 199	-4,5
Radio, television and communication apparatus and professional equipment	14 051 600	1 205 098	1 315 477	9,2	1 260 561	1 262 337	0,1
-Radio, television and communication apparatus	6 499 645	566 998	676 164	19,3	635 523	637 446	0,3
-Professional equipment	7 551 955	638 100	639 313	0,2	625 039	624 891	-0,0
Motor vehicles, parts and accessories and other transport equipment	182 251 860	15 641 741	16 120 629	3,1	16 129 034	15 577 327	-3,4
-Motor vehicles	92 059 875	8 465 800	8 172 327	-3,5	8 761 634	7 941 576	-9,4
-Bodies for motor vehicles, trailers and semi-trailers	8 192 883	644 895	741 367	15,0	638 005	712 984	11,8
-Parts and accessories	64 261 615	5 138 329	5 647 934	9,9	5 265 342	5 356 188	1,7
-Other transport equipment	17 737 487	1 392 717	1 559 001	11,9	1 464 053	1 566 579	7,0
Furniture and other manufacturing division	61 138 249	4 952 030	5 151 483	4,0	5 045 736	5 252 113	4,1
-Furniture	12 246 361	1 012 621	1 224 890	21,0	1 209 346	1 200 153	-0,8
-Other manufacturing groups	48 891 888	3 939 409	3 926 593	-0,3	3 836 391	4 051 960	5,6
Total	1 407 860 474	110 290 349	124 324 906	12,7	124 577 930	123 348 750	-1,0

1/ Preliminary.

* Revised. See note 26 in the explanatory notes, page 19.

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 2005	Production indices (base: 2005=100)			Value of sales (R'000)		
		May to Jul. 2011	May to Jul. 2012	% change between May to Jul. 2011 and May to Jul. 2012	* May to Jul. 2011	May to Jul. 2012	% change between May to Jul. 2011 and May to Jul. 2012
Food and beverages	15,4	112,0	120,1	7,2	65 918 375	74 322 834	12,7
-Meat, fish, fruit, etc.	1,8	118,9	125,6	5,6	17 705 361	19 992 568	12,9
-Dairy products	0,8	105,0	113,6	8,2	5 698 787	6 546 945	14,9
-Grain mill products	0,8	106,4	117,9	10,8	11 506 600	13 381 812	16,3
-Other food products	5,2	122,2	132,5	8,4	16 110 495	17 538 098	8,9
-Beverages	6,8	103,8	110,2	6,2	14 897 132	16 863 411	13,2
Textiles, clothing, leather and footwear	4,9	81,8	81,1	-0,9	9 611 807	9 999 202	4,0
-Textiles	0,7	61,5	55,5	-9,8	1 113 881	1 083 447	-2,7
-Other textile products	0,9	72,2	72,3	0,1	2 519 783	2 610 786	3,6
-Knitted, crocheted articles	0,2	95,2	71,5	-24,9	530 219	423 048	-20,2
-Wearing apparel	2,1	82,3	84,1	2,2	3 422 784	3 668 074	7,2
-Leather and leather products	0,6	94,3	98,7	4,7	1 210 346	1 355 353	12,0
-Footwear	0,4	108,8	102,8	-5,5	814 794	858 494	5,4
Wood and wood products, paper, publishing and printing	10,2	93,7	95,5	1,9	27 194 269	28 823 788	6,0
-Sawmilling and planing of wood	0,7	89,1	92,7	4,0	2 105 766	2 270 837	7,8
-Products of wood	1,3	88,9	89,5	0,7	3 994 930	4 167 221	4,3
-Paper and paper products	3,8	104,7	111,1	6,1	12 047 002	13 003 138	7,9
-Publishing	1,9	82,4	78,3	-5,0	3 751 615	3 812 356	1,6
-Printing, recorded media	2,5	88,8	88,3	-0,6	5 294 956	5 570 236	5,2
Petroleum, chemical products, rubber and plastic products	22,1	114,1	120,2	5,3	80 114 312	91 753 954	14,5
-Coke, petroleum products and nuclear fuel	8,5	98,7	100,7	2,0	33 833 535	39 349 268	16,3
-Basic chemicals	4,5	129,4	128,7	-0,5	17 040 194	18 184 268	6,7
-Other chemical products	5,3	114,7	130,1	13,4	16 101 236	19 194 705	19,2
-Rubber products	1,0	97,6	101,0	3,5	3 640 943	4 071 199	11,8
-Plastic products	2,7	142,0	154,4	8,7	9 498 404	10 954 514	15,3
Glass and non-metallic mineral products	4,8	98,4	100,5	2,1	11 246 181	12 316 278	9,5
-Glass and glass products	1,0	111,5	114,6	2,8	1 683 548	1 890 831	12,3
-Non-metallic mineral products	3,8	95,1	96,9	1,9	9 562 633	10 425 447	9,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	90,7	89,3	-1,5	75 905 555	81 995 778	8,0
-Basic iron and steel products	7,7	79,5	68,8	-13,5	24 061 543	24 671 062	2,5
-Non-ferrous metal products	3,4	109,0	87,7	-19,5	15 243 249	15 080 794	-1,1
-Structural metal products	2,0	89,5	91,9	2,7	6 269 905	7 297 273	16,4
-Other fabricated metal products	3,8	110,0	124,0	12,7	12 287 968	14 610 986	18,9
-General purpose machinery	2,4	70,2	78,1	11,3	6 778 187	7 753 888	14,4
-Special purpose machinery	3,1	90,2	100,7	11,6	9 054 293	9 996 469	10,4
-Household appliances	0,6	96,9	119,2	23,0	2 210 410	2 585 306	17,0
Electrical machinery	2,5	127,0	140,0	10,2	10 613 881	12 189 834	14,8
Radio, television and communication apparatus and professional equipment	1,1	106,3	111,6	5,0	3 344 837	3 773 891	12,8
-Radio, television and communication apparatus	0,4	101,1	115,3	14,0	1 416 957	1 795 647	26,7
-Professional equipment	0,7	109,5	109,2	-0,3	1 927 880	1 978 244	2,6
Motor vehicles, parts and accessories and other transport equipment	10,9	105,4	112,4	6,6	45 605 846	48 059 434	5,4
-Motor vehicles	4,9	99,1	116,4	17,5	22 823 348	24 605 365	7,8
-Bodies for motor vehicles, trailers and semi-trailers	0,5	126,6	136,2	7,6	2 003 474	2 261 097	12,9
-Parts and accessories	4,7	106,8	104,5	-2,2	16 245 401	16 491 804	1,5
-Other transport equipment	0,9	120,3	119,4	-0,7	4 533 623	4 701 168	3,7
Furniture and other manufacturing division	5,2	96,2	98,1	2,0	15 035 548	15 800 031	5,1
-Furniture	1,3	92,3	108,4	17,4	3 003 729	3 633 088	21,0
-Other manufacturing groups	3,9	97,5	94,8	-2,8	12 031 819	12 166 943	1,1
Total	100,0	102,4	106,1	3,6	344 590 611	379 035 024	10,0

* Revised. See note 26 in the explanatory notes, page 19.

Table 10 – Annual percentage change in the cumulative physical volume of manufacturing production and estimated sales according to manufacturing divisions and major groups

Manufacturing divisions and major groups	Weights 2005	Indices (base: 2005=100)				Value of sales (R million)			
		Jan. to Jul. 2011	Jan. to Jul. 2012	Annual % change between 2011 and 2012	Contribution (% points)	* Jan. to Jul. 2011	Jan. to Jul. 2012	Annual % change between 2011 and 2012	Difference in sales between 2011 and 2012
Food and beverages	15,4	108,9	114,6	5,2	0,9	149 698	167 844	12,1	18 146
-Meat, fish, fruit, etc.	1,8	114,9	119,4	3,9	0,1	39 659	43 867	10,6	4 208
-Dairy products	0,8	109,3	116,1	6,2	0,1	13 372	15 203	13,7	1 831
-Grain mill products	0,8	104,2	111,4	6,9	0,1	25 364	29 839	17,6	4 475
-Other food products	5,2	106,6	111,8	4,9	0,3	35 073	38 727	10,4	3 654
-Beverages	6,8	109,6	115,6	5,5	0,4	36 231	40 207	11,0	3 976
Textiles, clothing, leather and footwear	4,9	78,9	78,8	-0,1	0,0	21 406	22 264	4,0	858
-Textiles	0,7	61,0	58,1	-4,8	0,0	2 581	2 570	-0,4	-11
-Other textile products	0,9	70,0	70,1	0,1	0,0	5 574	5 792	3,9	218
-Knitted, crocheted articles	0,2	99,3	77,6	-21,9	0,0	1 204	1 048	-13,0	-156
-Wearing apparel	2,1	78,5	79,4	1,1	0,0	7 540	7 914	5,0	374
-Leather and leather products	0,6	94,0	98,1	4,4	0,0	2 788	3 070	10,1	282
-Footwear	0,4	98,6	99,9	1,3	0,0	1 720	1 872	8,8	152
Wood and wood products, paper, publishing and printing	10,2	92,7	94,1	1,5	0,1	61 356	65 424	6,6	4 068
-Sawmilling and planing of wood	0,7	84,8	89,8	5,9	0,0	4 610	5 102	10,7	492
-Products of wood	1,3	85,1	84,9	-0,2	0,0	8 876	9 238	4,1	362
-Paper and paper products	3,8	105,2	108,1	2,8	0,1	26 980	29 122	7,9	2 142
-Publishing	1,9	81,4	81,7	0,4	0,0	8 722	9 174	5,2	452
-Printing, recorded media	2,5	88,1	87,6	-0,6	0,0	12 170	12 787	5,1	617
Petroleum, chemical products, rubber and plastic products	22,1	111,6	114,5	2,6	0,6	175 781	206 642	17,6	30 861
-Coke, petroleum products and nuclear fuel	8,5	95,7	94,2	-1,6	-0,1	70 911	90 966	28,3	20 055
-Basic chemicals	4,5	125,7	128,0	1,8	0,1	37 885	41 108	8,5	3 223
-Other chemical products	5,3	114,5	121,6	6,2	0,4	37 394	41 235	10,3	3 841
-Rubber products	1,0	95,5	99,4	4,1	0,0	8 200	9 277	13,1	1 077
-Plastic products	2,7	138,0	147,7	7,0	0,3	21 391	24 055	12,5	2 664
Glass and non-metallic mineral products	4,8	91,2	94,6	3,7	0,2	24 474	26 575	8,6	2 101
-Glass and glass products	1,0	109,7	110,8	1,0	0,0	3 777	4 144	9,7	367
-Non-metallic mineral products	3,8	86,6	90,5	4,5	0,1	20 697	22 431	8,4	1 734
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	90,2	90,0	-0,2	0,0	174 979	187 250	7,0	12 271
-Basic iron and steel products	7,7	82,2	74,0	-10,0	-0,6	57 991	58 520	0,9	529
-Non-ferrous metal products	3,4	107,0	93,9	-12,2	-0,4	34 634	34 464	-0,5	-170
-Structural metal products	2,0	87,8	92,3	5,1	0,1	14 265	16 703	17,1	2 438
-Other fabricated metal products	3,8	107,4	117,7	9,6	0,4	27 564	32 063	16,3	4 499
-General purpose machinery	2,4	67,3	73,3	8,9	0,1	15 093	16 989	12,6	1 896
-Special purpose machinery	3,1	88,4	98,6	11,5	0,3	20 338	22 735	11,8	2 397
-Household appliances	0,6	95,3	112,0	17,5	0,1	5 093	5 776	13,4	683
-Electrical machinery	2,5	126,1	129,3	2,5	0,1	24 309	26 435	8,7	2 126
Radio, television and communication apparatus and professional equipment	1,1	99,2	105,4	6,3	0,1	7 507	8 268	10,1	761
-Radio, television and communication apparatus	0,4	93,7	108,4	15,7	0,1	3 279	3 904	19,1	625
-Professional equipment	0,7	102,6	103,5	0,9	0,0	4 228	4 364	3,2	136
Motor vehicles, parts and accessories and other transport equipment	10,9	102,0	104,8	2,7	0,3	102 105	105 275	3,1	3 170
-Motor vehicles	4,9	95,8	105,3	9,9	0,5	50 664	52 665	3,9	2 001
-Bodies for motor vehicles, trailers and semi-trailers	0,5	120,6	130,3	8,0	0,0	4 433	4 872	9,9	439
-Parts and accessories	4,7	103,6	100,8	-2,7	-0,1	36 847	37 653	2,2	806
-Other transport equipment	0,9	116,8	109,8	-6,0	-0,1	10 160	10 085	-0,7	-75
Furniture and other manufacturing division	5,2	92,9	90,9	-2,2	-0,1	34 516	35 651	3,3	1 135
-Furniture	1,3	86,7	95,6	10,3	0,1	6 501	7 436	14,4	935
-Other manufacturing groups	3,9	94,9	89,3	-5,9	-0,2	28 015	28 216	0,7	201
Total	100,0	100,0	102,1	2,1	2,1	776 131	851 628	9,7	75 497

1/ The contribution (percentage points) of a major group or division 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.

* Revised. See note 26 in the explanatory notes, page 19.

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 2005. 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 2012 was 87,6%. The collection rate for June 2012 (new sample) was 89,4%.
- 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 2 996 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 2 996 enterprises, which was drawn in April 2011 from a population then of 49 455 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 census of manufacturing or large sample survey of the manufacturing industry. For the period 1998 to 2000, the weights are based on the 1996 Census of Manufacturing. For the period 2001 to 2004, the weights are based on the 2001 large sample survey of the manufacturing industry (LSS) and for the period 2005 to 2012, the weights are based on the 2005 LSS. Weights between census / LSS 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 D for the fixed weights which were used for the three periods 1998 to 2000, 2001 to 2004 and 2005 to 2012).

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 the 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. 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.
- Pre-release policy** 24 Stats SA's pre-release policy may be inspected at its website, www.statssa.gov.za
- Symbols and abbreviations** 25
- | | |
|----------|---|
| 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** 26 The results published today are based on a new sample drawn in April 2012. 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 2012. A comparison of total sales estimates between the new and previous samples shows a 1,4% 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	The 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 2005. The production in the base period is set at 100.
Industry	An industry is made up 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. Output excludes excise and customs duty paid.
Value added	Value added is the value of output less intermediate consumption. It represents the value added to the cost of the materials used in the process of production.
Sales	Sales are the total value of sales and transfers-out of all own manufactured products/articles and the amounts received for installation, erection or assembly or other services rendered.
Turnover	Turnover refers to - <ul style="list-style-type: none">• the value of sales and transfers out of all own manufactured products/articles;• amounts received for work done; and• amounts received for services rendered.

Turnover excludes -

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

Weight

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

Table F – Weights according to manufacturing divisions and major groups

Manufacturing divisions and major groups	Weights according to the 1996 Census of Manufacturing 1998 – 2000	Weights according to the 2001 LSS of the manufacturing industry 2001 – 2004	Weights according to the 2005 LSS of the manufacturing industry 2005 – 2012
Food and beverages	15,3	16,4	15,4
-Meat, fish, fruit, etc.	2,8	2,6	1,8
-Dairy products	1,4	1,1	0,8
-Grain mill products	2,1	1,5	0,8
-Other food products	4,4	6,8	5,2
-Beverages	4,6	4,3	6,8
Textiles, clothing, leather and footwear	7,8	5,4	4,9
-Textiles	1,7	1,2	0,7
-Other textile products	1,2	1,2	0,9
-Knitted, crocheted articles	0,6	0,3	0,2
-Wearing apparel	3,0	2,0	2,1
-Tanning, dressing of leather	0,4	0,3	0,6
-Footwear	0,9	0,4	0,4
Wood and wood products, paper, publishing and printing	11,4	11,0	10,2
-Sawmilling and planing of wood	0,8	0,7	0,7
-Products of wood	1,2	1,0	1,3
-Paper and paper products	5,3	4,8	3,8
-Publishing	1,5	2,4	1,9
-Printing, recorded media	2,6	2,1	2,5
Petroleum, chemical products, rubber and plastic products	19,3	22,5	22,1
-Coke, petroleum products and nuclear fuel	4,2	9,1	8,5
-Basic chemicals	4,5	4,0	4,5
-Other chemical products	6,2	5,4	5,3
-Rubber products	1,4	1,1	1,0
-Plastic products	3,1	3,0	2,7
Glass and non-metallic mineral products	4,5	3,9	4,8
-Glass and glass products	1,0	1,1	1,0
-Non-metallic mineral products	3,5	2,9	3,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	23,6	22,4	22,9
-Basic iron and steel products	7,6	5,5	7,7
-Non-ferrous metal products	3,2	4,7	3,4
-Structural metal products	2,4	1,3	2,0
-Other fabricated metal products	4,6	4,2	3,8
-General purpose machinery	2,5	2,4	2,4
-Special purpose machinery	2,9	3,2	3,1
-Household appliances	0,4	1,2	0,6
Electrical machinery	3,4	2,7	2,5
Radio, television and communication apparatus and professional equipment	1,5	1,3	1,1
-Radio, television and communication apparatus	1,0	0,7	0,4
-Professional equipment	0,5	0,6	0,7
Motor vehicles, parts and accessories and other transport equipment	9,1	8,6	10,9
-Motor vehicles	4,5	4,1	4,9
-Bodies for motor vehicles, trailers and semi-trailers	0,5	0,4	0,5
-Parts and accessories	3,0	3,1	4,7
-Other transport equipment	1,0	1,0	0,9
Other manufacturing divisions	4,1	5,8	5,2
-Furniture	1,6	1,6	1,3
-Other manufacturing groups	2,6	4,2	3,9
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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