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Key figures for March 2013

Table A – Manufacturing production and sales

Estimates	March 2013	% change between March 2012 and March 2013	% change between January to March 2012 and January to March 2013
Physical volume of manufacturing production index (base: 2005=100)	104,8	-2,2	-0,7
Total estimated sales of manufactured products (R million)	135 136	3,9	5,4

Seasonally adjusted estimates	March 2013	% change between February and March 2013	% change between October to December 2012 and January to March 2013
Physical volume of manufacturing production index (base: 2005=100)	101,3	-2,5	-2,2
Total value of sales of manufactured products (R million)	129 148	-2,8	0,4

Manufacturing production decreased by 2,2% in March 2013 compared with March 2012.

The 2,2% year-on-year decrease in manufacturing production in March 2013 was due to lower production in the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (-9,0% and contributing -1,9 percentage points);
- wood and wood products, paper, publishing and printing (-8,5% and contributing -0,8 of a percentage point); and
- furniture and 'other' manufacturing (-10,7% and contributing -0,5 of a percentage point) (see Table 4b).

Cautionary note:

Note that the Easter weekend fell partly in March and partly in April in 2013, whereas in 2012 it fell in April. This may have adversely affected the performance of manufacturing in March 2013, which should be taken into account in assessing the decrease of 2,2% year-on-year. There were 19 working days in March 2013 compared with 21 working days in March 2012. The seasonally adjusted index declined by 2,5% between February and March 2013, but this change should also be treated with caution. Stats SA's current methodology for the seasonal adjustment of manufacturing does not adjust for shifts in the timing of Easter, so when Easter is spread over the end of March and the beginning of April, it is advisable to consider the two months together (once the April results become available). If the "Easter effect" were to be applied partly to March 2013, the month-on-month seasonally adjusted outcome would reflect a stronger performance than indicated here. Note that the actual index (as opposed to the seasonally adjusted index) increased month-on-month in March 2013 (normal seasonal pattern). Stats SA is working on the rollout of an improved seasonal adjustment methodology (already implemented in retail trade) to all its seasonally adjusted series. For further information on seasonal adjustment, see note 17 on page 15.

Seasonally adjusted manufacturing production for the first quarter of 2013 decreased by 2,2% compared with the fourth quarter of 2012. Six of the ten manufacturing divisions reported negative growth rates over this period.

The largest negative contributions to the decrease of 2,2% were made by the following divisions:

- petroleum, chemical products, rubber and plastic products (-4,8% and contributing -1,2 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (-4,3% and contributing -0,8 of a percentage point);
- wood and wood products, paper, publishing and printing (-6,6% and contributing -0,7 of a percentage point);
- furniture and 'other' manufacturing (-6,8% and contributing -0,3 of a percentage point); and
- radio, television and communication apparatus and professional equipment (-5,3% and contributing -0,1 of a percentage point) (see Table B).

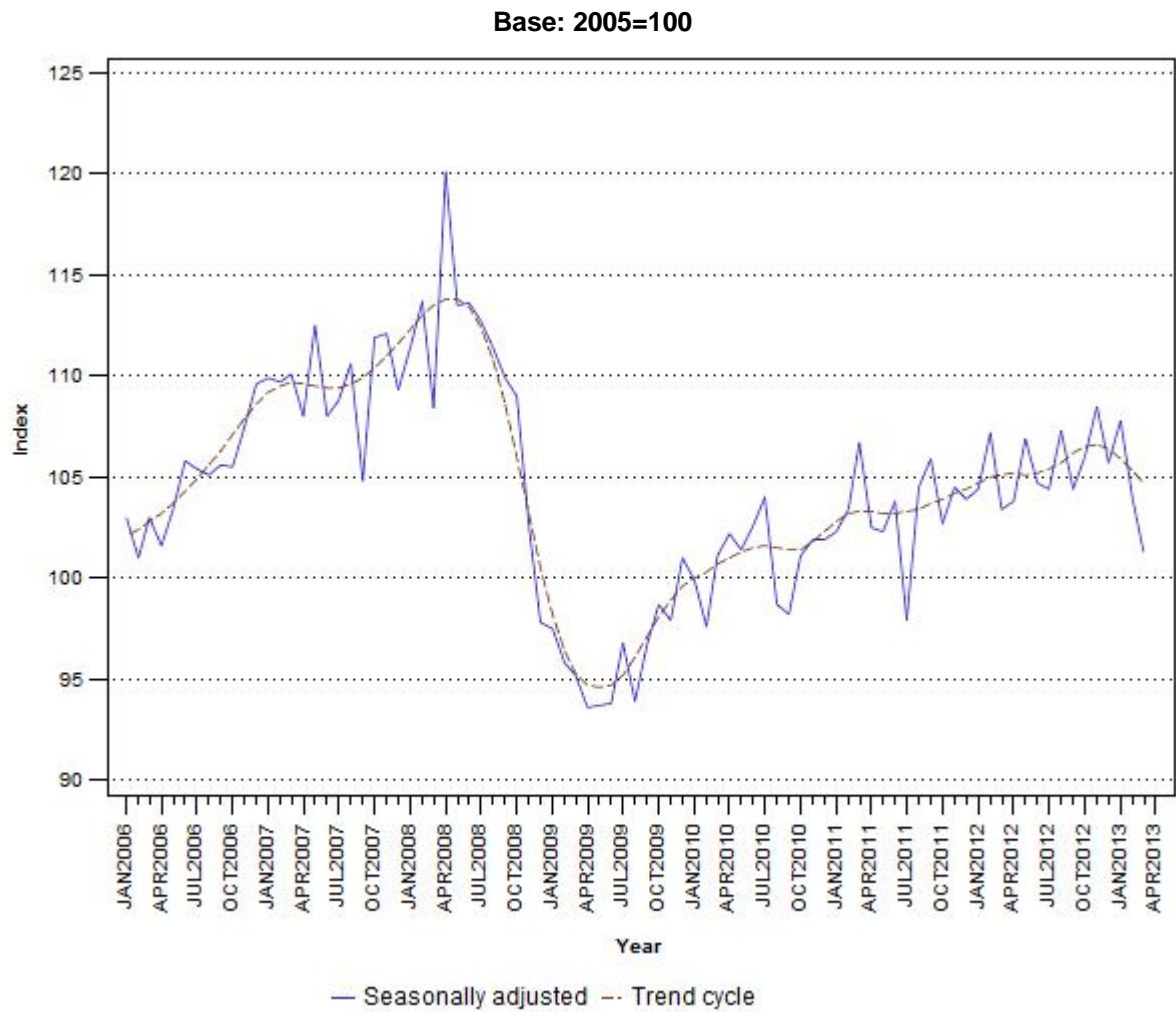
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2005=100

Manufacturing divisions and major groups	Weights 2005	Average seasonally adjusted production index for October to December 2012	Average seasonally adjusted production index for January to March 2013	Quarterly % change of January to March 2013 compared with the preceding three months	Contribution (% points) to the seasonally adjusted quarterly % change in total manufacturing production 1/
Food and beverages	15,4	120,0	122,4	2,0	0,3
-Meat, fish, fruit, etc.	1,8	119,5	117,1	-2,0	0,0
-Dairy products	0,8	119,6	119,4	-0,2	0,0
-Grain mill products	0,8	117,9	116,6	-1,1	0,0
-Other food products	5,2	105,9	115,9	9,4	0,5
-Beverages	6,8	131,1	129,8	-1,0	-0,1
Textiles, clothing, leather and footwear	4,9	81,1	82,7	2,0	0,1
-Textiles	1,6	63,4	63,4	0,0	0,0
-Wearing apparel	2,3	85,0	86,7	2,0	0,0
-Leather and leather products	0,6	99,6	99,9	0,3	0,0
-Footwear	0,4	98,8	107,0	8,3	0,0
Wood and wood products, paper, publishing and printing	10,2	103,3	96,5	-6,6	-0,7
-Wood and products of wood	2,0	89,6	85,2	-4,9	-0,1
-Paper and paper products	3,8	112,9	109,0	-3,5	-0,1
-Publishing and printing	4,3	101,0	90,7	-10,2	-0,4
Petroleum, chemical products, rubber and plastic products	22,1	126,0	120,0	-4,8	-1,2
-Coke, petroleum products and nuclear fuel	8,5	106,6	92,6	-13,1	-1,1
-Basic chemicals	4,5	143,5	140,5	-2,1	-0,1
-Other chemical products	5,3	133,3	134,4	0,8	0,1
-Rubber products	1,0	90,2	90,1	-0,1	0,0
-Plastic products	2,7	155,7	154,5	-0,8	0,0
Glass and non-metallic mineral products	4,8	96,9	96,4	-0,5	0,0
-Glass and glass products	1,0	122,9	118,6	-3,5	0,0
-Non-metallic mineral products	3,8	90,4	90,9	0,6	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	91,6	87,7	-4,3	-0,8
-Basic iron and steel products	7,7	71,6	65,7	-8,2	-0,4
-Basic precious, non-ferrous metal products	3,4	103,3	107,8	4,4	0,1
-Fabricated metal products	5,7	109,3	106,4	-2,7	-0,2
-Machinery and equipment	6,1	93,6	86,6	-7,5	-0,4
Electrical machinery	2,5	123,8	126,6	2,3	0,1
Radio, television and communication apparatus and professional equipment	1,1	113,8	107,8	-5,3	-0,1
-Radio, television and communication apparatus	0,4	130,8	118,8	-9,2	0,0
-Professional equipment	0,7	102,9	100,8	-2,0	0,0
Motor vehicles, parts and accessories and other transport equipment	10,9	102,5	106,0	3,4	0,4
-Motor vehicles	4,9	100,9	108,7	7,7	0,4
-Bodies for motor vehicles, trailers and semi-trailers	0,5	133,1	121,8	-8,5	-0,1
-Parts and accessories	4,7	99,0	100,6	1,6	0,1
-Other transport equipment	0,9	113,1	110,8	-2,0	0,0
Furniture and other manufacturing division	5,2	91,8	85,6	-6,8	-0,3
-Furniture	1,3	101,9	92,7	-9,0	-0,1
-Other manufacturing groups	3,9	88,4	83,2	-5,9	-0,2
Total	100,0	106,7	104,3	-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



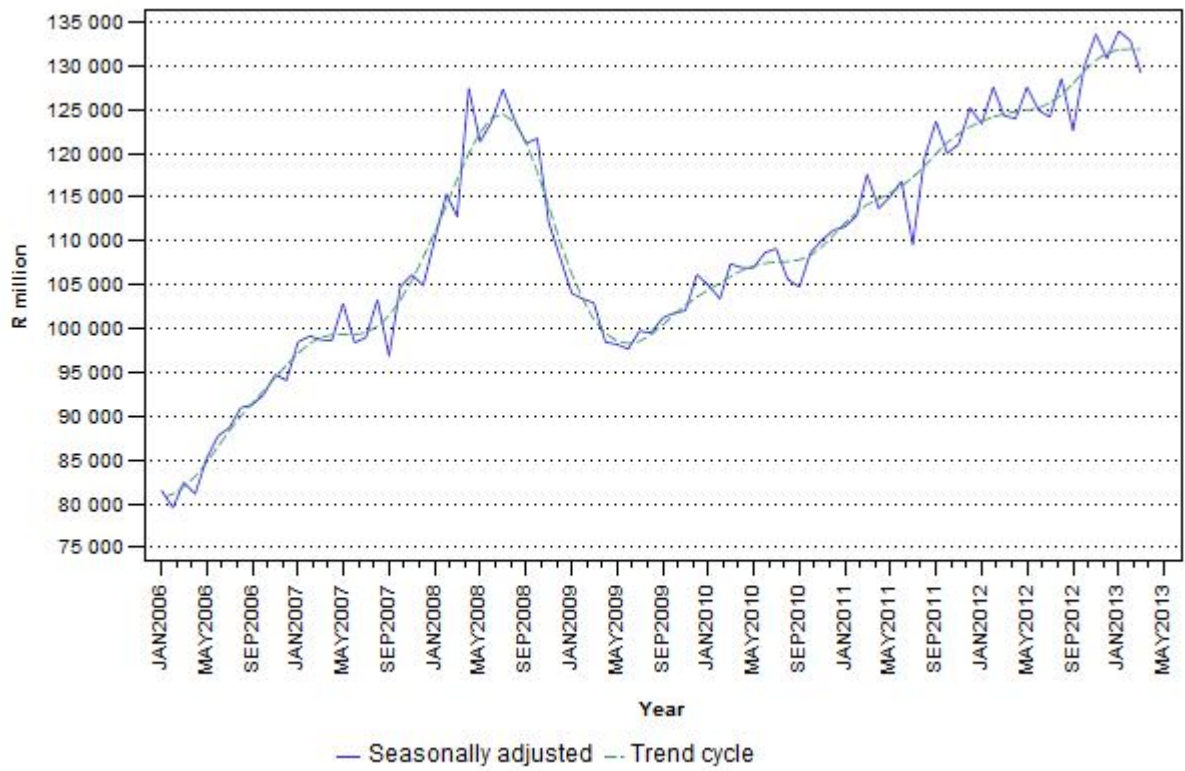
Seasonally adjusted sales of manufactured products (at current prices) for the first quarter of 2013 increased by 0,4% (R1 639 million) compared with the fourth quarter of 2012. Four of the ten manufacturing divisions reported positive growth rates over this period.

The manufacturing division that was mainly responsible for the increase in total manufacturing sales was motor vehicles, parts and accessories and 'other' transport equipment (10,2% or R4 595 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 October to December 2012	Seasonally adjusted sales January to March 2013	% change between October to December 2012 and January to March 2013	Difference in seasonally adjusted sales of manufacturing divisions between October to December 2012 and January to March 2013
	R'000	R'000	%	R'000
Food and beverages	80 542 586	80 457 946	-0,1	-84 640
-Food and food products	59 984 980	59 539 502	-0,7	-445 478
-Beverages	20 557 606	20 918 445	1,8	360 839
Textiles, clothing, leather and footwear	10 170 804	10 175 552	0,0	4 748
-Textiles	3 593 458	3 667 208	2,1	73 750
-Wearing apparel	4 233 403	4 232 247	0,0	-1 156
-Leather and leather products	1 439 943	1 330 428	-7,6	-109 515
-Footwear	904 000	945 670	4,6	41 670
Wood and wood products, paper, publishing and printing	31 590 832	29 952 245	-5,2	-1 638 587
-Wood and products of wood	6 554 823	6 274 037	-4,3	-280 786
-Paper and paper products	13 420 893	13 295 862	-0,9	-125 031
-Publishing and printing	11 615 116	10 382 346	-10,6	-1 232 770
Petroleum, chemical products, rubber and plastic products	101 113 814	100 077 332	-1,0	-1 036 482
-Coke, petroleum products and nuclear fuel	45 875 285	43 587 080	-5,0	-2 288 205
-Basic chemicals	20 380 814	20 045 990	-1,6	-334 824
-Other chemical products	19 889 536	21 230 519	6,7	1 340 983
-Rubber products	3 831 548	3 995 221	4,3	163 673
-Plastic products	11 136 630	11 218 523	0,7	81 893
Glass and non-metallic mineral products	12 126 909	12 304 738	1,5	177 829
-Glass and glass products	2 076 447	2 189 577	5,4	113 130
-Non-metallic mineral products	10 050 461	10 115 161	0,6	64 700
Basic iron and steel, non-ferrous metal products, metal products and machinery	83 517 867	83 021 755	-0,6	-496 112
-Basic iron and steel products	24 480 892	25 275 151	3,2	794 259
-Basic precious, non-ferrous metal products	16 565 469	16 805 178	1,4	239 709
-Fabricated metal products	21 606 424	21 125 744	-2,2	-480 680
-Machinery and equipment	20 865 080	19 815 682	-5,0	-1 049 398
Electrical machinery	10 804 030	11 417 449	5,7	613 419
Radio, television and communication apparatus and professional equipment	3 960 665	3 757 967	-5,1	-202 698
-Radio, television and communication apparatus	2 019 426	1 938 323	-4,0	-81 103
-Professional equipment	1 941 239	1 819 644	-6,3	-121 595
Motor vehicles, parts and accessories and other transport equipment	44 851 478	49 446 760	10,2	4 595 282
-Motor vehicles, trailers, parts and accessories	40 309 908	44 899 848	11,4	4 589 940
-Other transport equipment	4 541 570	4 546 912	0,1	5 342
Furniture and other manufacturing division	15 654 514	15 360 891	-1,9	-293 623
-Furniture	3 533 454	3 303 646	-6,5	-229 808
-Other manufacturing groups	12 121 061	12 057 244	-0,5	-63 817
Total	394 333 498	395 972 634	0,4	1 639 136

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



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Statistician-General

Detailed results

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

Base: 2005=100

Month	2007	2008	2009	2010	2011	2012	2013
Jan	95,0	95,9	83,4	85,9	88,0	90,0	1/ 93,2
Feb	104,7	108,5	91,5	93,7	99,7	103,8	1/ 100,9
Mar	113,6	111,9	98,3	104,7	110,4	107,2	1/ 104,8
Apr	101,0	111,9	87,1	94,6	94,7	95,4	
May	113,4	114,3	94,1	101,9	102,8	107,3	
Jun	109,2	115,1	94,9	103,8	104,9	105,8	
Jul	111,2	115,2	98,9	106,0	99,4	105,9	
Aug	114,4	114,9	96,7	101,7	107,7	110,6	
Sep	108,9	114,2	100,7	102,1	110,5	108,6	
Oct	124,1	121,1	109,1	111,8	113,2	116,3	
Nov	124,3	114,3	108,4	113,7	117,1	121,4	
Dec	96,5	87,8	90,2	90,9	93,1	94,8	
Year	109,7	110,4	96,1	100,9	103,5	105,6	

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	5,9	0,9	-13,0	3,0	2,4	2,3	3,6
Feb	8,3	3,6	-15,7	2,4	6,4	4,1	-2,8
Mar	7,0	-1,5	-12,2	6,5	5,4	-2,9	-2,2
Apr	5,6	10,8	-22,2	8,6	0,1	0,7	
May	8,7	0,8	-17,7	8,3	0,9	4,4	
Jun	2,3	5,4	-17,5	9,4	1,1	0,9	
Jul	3,5	3,6	-14,1	7,2	-6,2	6,5	
Aug	5,1	0,4	-15,8	5,2	5,9	2,7	
Sep	-0,7	4,9	-11,8	1,4	8,2	-1,7	
Oct	6,1	-2,4	-9,9	2,5	1,3	2,7	
Nov	4,4	-8,0	-5,2	4,9	3,0	3,7	
Dec	-0,1	-9,0	2,7	0,8	2,4	1,8	
Year	4,7	0,6	-13,0	5,0	2,6	2,0	

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: 2005=100

Month	2007	2008	2009	2010	2011	2012	2013
Jan	109,9	111,4	97,5	99,9	102,3	104,4	107,8
Feb	109,7	113,7	95,8	97,6	103,4	107,2	103,9
Mar	110,1	108,4	95,2	101,1	106,7	103,4	101,3
Apr	108,0	120,1	93,6	102,2	102,5	103,8	
May	112,5	113,5	93,7	101,4	102,3	106,9	
Jun	108,0	113,6	93,8	102,6	103,8	104,7	
Jul	108,8	112,7	96,8	104,0	97,9	104,4	
Aug	110,6	111,4	93,9	98,7	104,5	107,3	
Sep	104,8	109,9	96,7	98,2	105,9	104,4	
Oct	111,9	109,0	98,7	101,1	102,7	106,0	
Nov	112,1	102,6	97,9	101,9	104,5	108,5	
Dec	109,3	97,8	101,0	101,9	103,9	105,7	

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 2012	Actual indices			Seasonally adjusted indices		
			March 2012	1/ February 2013	1/ March 2013	March 2012	February 2013	March 2013
Food and beverages	15,4	121,6	113,8	111,4	114,9	114,9	121,6	116,4
-Meat, fish, fruit, etc.	1,8	121,9	129,6	108,6	123,8	120,8	116,9	115,7
-Dairy products	0,8	121,5	119,3	111,2	122,4	119,1	117,2	122,2
-Grain mill products	0,8	116,1	113,9	107,1	120,9	106,3	118,3	113,0
-Other food products	5,2	113,6	94,8	89,5	97,7	108,2	111,6	111,6
-Beverages	6,8	128,3	123,4	129,3	124,0	119,1	131,4	120,0
Textiles, clothing, leather and footwear	4,9	81,7	85,8	86,1	85,1	81,6	85,0	81,1
-Textiles	0,7	58,0	61,6	66,4	57,8	56,8	57,9	53,7
-Other textile products	0,9	70,1	73,3	74,2	75,1	69,6	69,5	71,3
-Knitted, crocheted articles	0,2	74,0	97,9	80,9	76,0	79,6	73,1	61,4
-Wearing apparel	2,1	85,4	87,1	87,7	88,9	84,3	91,8	86,2
-Leather and leather products	0,6	98,3	104,8	106,2	103,5	98,7	98,3	97,2
-Footwear	0,4	104,6	112,1	106,6	106,4	108,5	112,1	102,9
Wood and wood products, paper, publishing and printing	10,2	99,9	100,8	96,8	92,2	99,0	98,7	90,7
-Sawmilling and planing of wood	0,7	90,2	93,6	84,8	88,2	87,2	84,6	82,2
-Products of wood	1,3	88,5	92,0	83,1	85,9	89,7	87,7	83,8
-Paper and paper products	3,8	111,8	113,4	103,8	107,6	111,4	109,5	106,1
-Publishing	1,9	93,2	81,1	82,8	81,9	78,6	84,0	79,7
-Printing, recorded media	2,5	95,1	102,6	106,8	80,6	103,1	102,8	81,3
Petroleum, chemical products, rubber and plastic products	22,1	119,1	118,0	110,1	121,4	114,9	115,7	118,2
-Coke, petroleum products and nuclear fuel	8,5	96,7	93,5	70,4	92,7	93,4	78,0	92,3
-Basic chemicals	4,5	134,6	132,6	129,9	143,0	135,0	138,6	145,5
-Other chemical products	5,3	128,2	126,5	134,8	137,6	116,6	137,3	126,9
-Rubber products	1,0	95,0	111,0	104,5	96,4	98,1	95,1	85,0
-Plastic products	2,7	154,5	156,4	155,8	152,9	152,0	161,2	148,8
Glass and non-metallic mineral products	4,8	96,8	93,7	87,8	93,5	94,5	95,5	94,6
-Glass and glass products	1,0	121,0	107,9	110,4	108,6	119,9	115,7	120,7
-Non-metallic mineral products	3,8	90,7	90,1	82,2	89,7	88,2	90,5	88,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	91,4	100,3	87,6	91,3	93,3	88,3	84,8
-Basic iron and steel products	7,7	73,8	81,7	61,6	64,5	75,5	61,6	59,1
-Non-ferrous metal products	3,4	97,6	100,1	102,1	114,1	96,4	107,0	110,1
-Structural metal products	2,0	90,9	107,3	91,1	77,9	104,8	85,3	76,0
-Other fabricated metal products	3,8	120,3	123,7	123,3	121,9	116,9	120,1	115,5
-General purpose machinery	2,4	76,9	84,3	71,6	70,6	83,2	77,7	69,7
-Special purpose machinery	3,1	100,5	122,6	97,4	115,0	102,3	100,8	95,6
-Household appliances	0,6	112,5	119,1	113,2	116,7	111,3	112,9	109,3
Electrical machinery	2,5	127,9	144,9	128,9	146,7	129,3	128,1	129,8
Radio, television and communication apparatus and professional equipment	1,1	111,1	105,4	111,5	110,5	106,3	105,2	111,5
-Radio, television and communication apparatus	0,4	120,6	100,7	136,2	110,7	105,1	117,9	116,2
-Professional equipment	0,7	105,1	108,4	95,9	110,3	107,0	97,1	108,5
Motor vehicles, parts and accessories and other transport equipment	10,9	105,5	109,6	107,8	110,9	102,3	106,2	103,6
-Motor vehicles	4,9	106,3	110,7	113,6	116,7	101,0	109,0	106,3
-Bodies for motor vehicles, trailers and semi-trailers	0,5	133,4	138,8	121,8	125,5	129,7	120,8	117,5
-Parts and accessories	4,7	100,0	104,6	100,9	101,4	100,4	100,4	98,0
-Other transport equipment	0,9	114,2	115,1	105,1	121,3	105,0	113,5	110,9
Furniture and other manufacturing division	5,2	93,0	93,8	92,7	83,8	92,4	88,3	82,7
-Furniture	1,3	103,0	88,6	92,5	86,1	97,3	95,1	94,5
-Other manufacturing groups	3,9	89,7	95,5	92,8	83,0	90,7	86,0	78,7
Total	100,0	105,6	107,2	100,9	104,8	103,4	103,9	101,3

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 2012	Actual indices			Seasonally adjusted indices		
			March 2012	1/ March 2013	% change between March 2012 and March 2013	February 2013	March 2013	% change between February and March 2013
Food and beverages	15,4	121,6	113,8	114,9	1,0	121,6	116,4	-4,3
-Meat, fish, fruit, etc.	1,8	121,9	129,6	123,8	-4,5	116,9	115,7	-1,0
-Dairy products	0,8	121,5	119,3	122,4	2,6	117,2	122,2	4,3
-Grain mill products	0,8	116,1	113,9	120,9	6,1	118,3	113,0	-4,5
-Other food products	5,2	113,6	94,8	97,7	3,1	111,6	111,6	0,0
-Beverages	6,8	128,3	123,4	124,0	0,5	131,4	120,0	-8,7
Textiles, clothing, leather and footwear	4,9	81,7	85,8	85,1	-0,8	85,0	81,1	-4,6
-Textiles	0,7	58,0	61,6	57,8	-6,2	57,9	53,7	-7,3
-Other textile products	0,9	70,1	73,3	75,1	2,5	69,5	71,3	2,6
-Knitted, crocheted articles	0,2	74,0	97,9	76,0	-22,4	73,1	61,4	-16,0
-Wearing apparel	2,1	85,4	87,1	88,9	2,1	91,8	86,2	-6,1
-Leather and leather products	0,6	98,3	104,8	103,5	-1,2	98,3	97,2	-1,1
-Footwear	0,4	104,6	112,1	106,4	-5,1	112,1	102,9	-8,2
Wood and wood products, paper, publishing and printing	10,2	99,9	100,8	92,2	-8,5	98,7	90,7	-8,1
-Sawmilling and planing of wood	0,7	90,2	93,6	88,2	-5,8	84,6	82,2	-2,8
-Products of wood	1,3	88,5	92,0	85,9	-6,6	87,7	83,8	-4,4
-Paper and paper products	3,8	111,8	113,4	107,6	-5,1	109,5	106,1	-3,1
-Publishing	1,9	93,2	81,1	81,9	1,0	84,0	79,7	-5,1
-Printing, recorded media	2,5	95,1	102,6	80,6	-21,4	102,8	81,3	-20,9
Petroleum, chemical products, rubber and plastic products	22,1	119,1	118,0	121,4	2,9	115,7	118,2	2,2
-Coke, petroleum products and nuclear fuel	8,5	96,7	93,5	92,7	-0,9	78,0	92,3	18,3
-Basic chemicals	4,5	134,6	132,6	143,0	7,8	138,6	145,5	5,0
-Other chemical products	5,3	128,2	126,5	137,6	8,8	137,3	126,9	-7,6
-Rubber products	1,0	95,0	111,0	96,4	-13,2	95,1	85,0	-10,6
-Plastic products	2,7	154,5	156,4	152,9	-2,2	161,2	148,8	-7,7
Glass and non-metallic mineral products	4,8	96,8	93,7	93,5	-0,2	95,5	94,6	-0,9
-Glass and glass products	1,0	121,0	107,9	108,6	0,6	115,7	120,7	4,3
-Non-metallic mineral products	3,8	90,7	90,1	89,7	-0,4	90,5	88,1	-2,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	91,4	100,3	91,3	-9,0	88,3	84,8	-4,0
-Basic iron and steel products	7,7	73,8	81,7	64,5	-21,1	61,6	59,1	-4,1
-Non-ferrous metal products	3,4	97,6	100,1	114,1	14,0	107,0	110,1	2,9
-Structural metal products	2,0	90,9	107,3	77,9	-27,4	85,3	76,0	-10,9
-Other fabricated metal products	3,8	120,3	123,7	121,9	-1,5	120,1	115,5	-3,8
-General purpose machinery	2,4	76,9	84,3	70,6	-16,3	77,7	69,7	-10,3
-Special purpose machinery	3,1	100,5	122,6	115,0	-6,2	100,8	95,6	-5,2
-Household appliances	0,6	112,5	119,1	116,7	-2,0	112,9	109,3	-3,2
Electrical machinery	2,5	127,9	144,9	146,7	1,2	128,1	129,8	1,3
Radio, television and communication apparatus and professional equipment	1,1	111,1	105,4	110,5	4,8	105,2	111,5	6,0
-Radio, television and communication apparatus	0,4	120,6	100,7	110,7	9,9	117,9	116,2	-1,4
-Professional equipment	0,7	105,1	108,4	110,3	1,8	97,1	108,5	11,7
Motor vehicles, parts and accessories and other transport equipment	10,9	105,5	109,6	110,9	1,2	106,2	103,6	-2,4
-Motor vehicles	4,9	106,3	110,7	116,7	5,4	109,0	106,3	-2,5
-Bodies for motor vehicles, trailers and semi-trailers	0,5	133,4	138,8	125,5	-9,6	120,8	117,5	-2,7
-Parts and accessories	4,7	100,0	104,6	101,4	-3,1	100,4	98,0	-2,4
-Other transport equipment	0,9	114,2	115,1	121,3	5,4	113,5	110,9	-2,3
Furniture and other manufacturing division	5,2	93,0	93,8	83,8	-10,7	88,3	82,7	-6,3
-Furniture	1,3	103,0	88,6	86,1	-2,8	95,1	94,5	-0,6
-Other manufacturing groups	3,9	89,7	95,5	83,0	-13,1	86,0	78,7	-8,5
Total	100,0	105,6	107,2	104,8	-2,2	103,9	101,3	-2,5

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	82 751 979	92 718 406	87 095 583	88 149 838	94 246 838	104 935 789	1/ 113 831 610
Feb	94 752 037	109 968 010	98 910 325	99 414 819	108 823 746	122 863 314	1/ 128 288 033
Mar	101 801 537	116 559 343	106 853 461	112 150 984	123 042 345	130 042 791	1/ 135 136 446
Apr	92 055 334	118 743 978	91 481 056	99 179 387	105 427 353	114 751 285	
May	103 294 995	122 009 401	97 891 568	106 725 647	114 987 796	127 234 354	
Jun	100 363 915	126 717 920	99 620 665	110 984 952	119 312 466	127 603 367	
Jul	101 001 703	130 306 185	101 194 755	110 310 285	110 290 349	124 597 549	
Aug	106 756 672	128 075 397	102 171 776	107 873 773	121 774 032	130 989 591	
Sep	102 072 116	127 557 225	106 385 385	110 151 480	129 822 841	128 466 040	
Oct	115 324 079	133 838 287	111 499 001	118 674 521	130 325 799	140 601 491	
Nov	117 861 959	124 514 657	113 598 170	123 230 894	135 588 107	149 196 393	
Dec	93 460 862	97 565 655	96 538 722	101 389 781	114 218 802	120 093 122	
Year	1 211 497 188	1 428 574 464	1 213 240 467	1 288 236 361	1 407 860 474	1 521 375 086	

1/ Preliminary.

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

Month	2007	2008	2009	2010	2011	2012	2013
Jan	20,8	12,0	-6,1	1,2	6,9	11,3	8,5
Feb	24,3	16,1	-10,1	0,5	9,5	12,9	4,4
Mar	20,3	14,5	-8,3	5,0	9,7	5,7	3,9
Apr	21,3	29,0	-23,0	8,4	6,3	8,8	
May	21,1	18,1	-19,8	9,0	7,7	10,7	
Jun	12,5	26,3	-21,4	11,4	7,5	6,9	
Jul	11,8	29,0	-22,3	9,0	0,0	13,0	
Aug	13,4	20,0	-20,2	5,6	12,9	7,6	
Sep	6,0	25,0	-16,6	3,5	17,9	-1,0	
Oct	13,4	16,1	-16,7	6,4	9,8	7,9	
Nov	12,0	5,6	-8,8	8,5	10,0	10,0	
Dec	11,3	4,4	-1,1	5,0	12,7	5,1	
Year	15,2	17,9	-15,1	6,2	9,3	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	98 452 585	110 145 785	104 016 339	104 933 882	111 612 050	123 348 320	133 924 103
Feb	99 124 812	115 326 963	103 341 199	103 380 209	112 896 974	127 539 017	132 900 712
Mar	98 729 643	112 764 839	102 923 029	107 355 604	117 584 848	124 275 754	129 147 819
Apr	98 607 463	127 403 521	98 429 196	106 941 427	113 704 797	123 969 890	
May	102 839 698	121 324 992	98 197 498	106 911 319	115 039 894	127 534 123	
Jun	98 375 274	123 597 355	97 653 735	108 647 610	116 800 034	124 932 897	
Jul	98 957 166	127 297 755	99 714 875	109 125 134	109 598 025	124 131 254	
Aug	103 299 083	123 833 526	99 507 534	105 607 263	119 401 203	128 506 417	
Sep	96 858 182	121 118 022	101 204 045	104 746 356	123 631 965	122 603 873	
Oct	104 765 228	121 706 792	101 765 666	108 689 676	119 977 309	129 914 265	
Nov	106 133 807	112 032 137	102 033 691	110 122 282	121 083 089	133 584 182	
Dec	104 892 159	108 091 895	106 145 959	111 224 646	125 162 861	130 835 051	

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		
		March 2012	1/ February 2013	1/ March 2013	March 2012	February 2013	March 2013
Food and beverages	310 753 020	24 819 486	25 003 693	26 115 321	24 937 749	26 514 857	26 230 152
-Meat, fish, fruit, etc.	80 244 635	6 623 424	6 080 166	7 048 508	6 345 719	6 663 031	6 765 823
-Dairy products	27 286 839	2 298 581	2 223 009	2 503 530	2 220 686	2 349 373	2 413 655
-Grain mill products	54 399 835	4 428 782	4 340 683	4 893 512	4 327 495	4 785 497	4 792 895
-Other food products	70 581 062	5 428 929	5 321 720	5 257 205	5 893 247	5 815 242	5 722 821
-Beverages	78 240 649	6 039 770	7 038 115	6 412 566	6 150 602	6 901 714	6 534 959
Textiles, clothing, leather and footwear	39 829 374	3 429 411	3 417 806	3 564 148	3 229 748	3 443 481	3 367 763
-Textiles	4 467 256	391 079	413 465	417 433	338 950	384 300	361 694
-Other textile products	10 005 194	873 378	870 640	918 785	827 245	844 290	870 828
-Knitted, crocheted articles	1 720 830	198 027	150 122	152 510	166 654	138 629	128 519
-Wearing apparel	14 738 223	1 196 281	1 219 265	1 319 930	1 165 210	1 288 808	1 290 164
-Leather and leather products	5 345 948	470 698	473 809	450 179	432 672	458 983	413 061
-Footwear	3 551 923	299 948	290 505	305 311	299 017	328 471	303 498
Wood and wood products, paper, publishing and printing	120 098 223	10 180 142	9 892 371	9 825 937	9 905 975	10 159 918	9 571 570
-Sawmilling and planing of wood	8 934 002	787 196	732 559	770 736	742 605	740 858	725 855
-Products of wood	16 623 711	1 429 822	1 338 452	1 381 892	1 391 235	1 402 559	1 341 707
-Paper and paper products	52 397 430	4 460 066	4 152 874	4 508 026	4 288 597	4 410 296	4 344 476
-Publishing	18 207 329	1 334 866	1 368 151	1 398 540	1 309 836	1 377 615	1 377 435
-Printing, recorded media	23 935 751	2 168 192	2 300 335	1 766 743	2 173 701	2 228 590	1 782 096
Petroleum, chemical products, rubber and plastic products	371 139 667	30 930 641	30 565 804	33 643 832	30 033 761	33 479 735	32 529 757
-Coke, petroleum products and nuclear fuel	159 593 866	13 292 716	12 677 967	14 590 315	13 057 379	14 700 580	14 138 163
-Basic chemicals	76 583 427	6 255 452	6 071 150	6 777 216	6 117 417	6 622 601	6 633 514
-Other chemical products	75 688 106	6 217 874	6 708 514	7 209 989	5 990 538	6 970 191	6 963 882
-Rubber products	15 688 483	1 547 864	1 405 762	1 388 822	1 329 378	1 324 757	1 194 728
-Plastic products	43 585 785	3 616 735	3 702 411	3 677 490	3 539 049	3 861 606	3 599 470
Glass and non-metallic mineral products	47 460 718	4 031 203	3 889 472	4 203 846	3 884 996	4 066 321	4 061 280
-Glass and glass products	8 181 045	587 291	650 694	648 680	659 323	685 740	730 439
-Non-metallic mineral products	39 279 673	3 443 912	3 238 778	3 555 166	3 225 673	3 380 581	3 330 841
Basic iron and steel, non-ferrous metal products, metal products and machinery	325 860 391	29 290 981	27 967 142	29 678 168	26 928 883	28 460 532	27 271 094
-Basic iron and steel products	97 345 301	8 802 020	8 889 203	8 891 729	8 188 033	8 627 088	8 253 064
-Non-ferrous metal products	61 964 728	5 129 424	4 952 127	6 021 986	4 852 363	5 465 432	5 697 938
-Structural metal products	29 182 727	2 731 865	2 596 750	2 249 114	2 475 380	2 503 557	2 037 552
-Other fabricated metal products	56 428 755	4 847 886	4 779 251	4 912 414	4 544 083	4 787 678	4 615 158
-General purpose machinery	30 729 277	2 765 604	2 388 610	2 490 033	2 736 750	2 610 216	2 467 042
-Special purpose machinery	40 218 784	4 051 889	3 515 929	4 130 508	3 269 767	3 610 323	3 321 954
-Household appliances	9 990 819	962 293	845 272	982 384	862 507	856 238	878 386
Electrical machinery	44 835 132	4 343 086	3 973 466	4 317 907	3 858 188	3 871 366	3 804 912
Radio, television and communication apparatus and professional equipment	15 243 304	1 209 754	1 287 238	1 246 323	1 208 674	1 225 738	1 252 692
-Radio, television and communication apparatus	7 500 083	548 166	717 125	579 863	578 353	652 803	617 778
-Professional equipment	7 743 221	661 588	570 113	666 460	630 321	572 934	634 914
Motor vehicles, parts and accessories and other transport equipment	183 642 534	16 533 522	16 907 495	17 321 711	14 902 316	16 469 360	15 687 298
-Motor vehicles	93 050 573	8 465 472	9 240 479	9 376 892	7 453 336	8 841 247	8 322 569
-Bodies for motor vehicles, trailers and semi-trailers	8 600 730	732 208	717 475	674 300	713 997	715 736	659 058
-Parts and accessories	63 923 511	5 830 410	5 521 203	5 607 877	5 344 231	5 370 032	5 164 652
-Other transport equipment	18 067 720	1 505 432	1 428 338	1 662 642	1 390 752	1 542 345	1 541 020
Furniture and other manufacturing division	62 512 723	5 274 565	5 383 546	5 219 253	5 385 464	5 209 405	5 371 301
-Furniture	13 926 915	1 011 025	1 079 446	1 002 048	1 111 101	1 148 974	1 100 125
-Other manufacturing groups	48 585 808	4 263 540	4 304 100	4 217 205	4 274 363	4 060 431	4 271 176
Total	1 521 375 086	130 042 791	128 288 033	135 136 446	124 275 754	132 900 712	129 147 819

1/ Preliminary.

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

Manufacturing divisions and major groups	Year 2012	Actual values			Seasonally adjusted values		
		March 2012	1/ March 2013	% change between March 2012 and March 2013	February 2013	March 2013	% change between February and March 2013
Food and beverages	310 753 020	24 819 486	26 115 321	5,2	26 514 857	26 230 152	-1,1
-Meat, fish, fruit, etc.	80 244 635	6 623 424	7 048 508	6,4	6 663 031	6 765 823	1,5
-Dairy products	27 286 839	2 298 581	2 503 530	8,9	2 349 373	2 413 655	2,7
-Grain mill products	54 399 835	4 428 782	4 893 512	10,5	4 785 497	4 792 895	0,2
-Other food products	70 581 062	5 428 929	5 257 205	-3,2	5 815 242	5 722 821	-1,6
-Beverages	78 240 649	6 039 770	6 412 566	6,2	6 901 714	6 534 959	-5,3
Textiles, clothing, leather and footwear	39 829 374	3 429 411	3 564 148	3,9	3 443 481	3 367 763	-2,2
-Textiles	4 467 256	391 079	417 433	6,7	384 300	361 694	-5,9
-Other textile products	10 005 194	873 378	918 785	5,2	844 290	870 828	3,1
-Knitted, crocheted articles	1 720 830	198 027	152 510	-23,0	138 629	128 519	-7,3
-Wearing apparel	14 738 223	1 196 281	1 319 930	10,3	1 288 808	1 290 164	0,1
-Leather and leather products	5 345 948	470 698	450 179	-4,4	458 983	413 061	-10,0
-Footwear	3 551 923	299 948	305 311	1,8	328 471	303 498	-7,6
Wood and wood products, paper, publishing and printing	120 098 223	10 180 142	9 825 937	-3,5	10 159 918	9 571 570	-5,8
-Sawmilling and planing of wood	8 934 002	787 196	770 736	-2,1	740 858	725 855	-2,0
-Products of wood	16 623 711	1 429 822	1 381 892	-3,4	1 402 559	1 341 707	-4,3
-Paper and paper products	52 397 430	4 460 066	4 508 026	1,1	4 410 296	4 344 476	-1,5
-Publishing	18 207 329	1 334 866	1 398 540	4,8	1 377 615	1 377 435	-0,0
-Printing, recorded media	23 935 751	2 168 192	1 766 743	-18,5	2 228 590	1 782 096	-20,0
Petroleum, chemical products, rubber and plastic products	371 139 667	30 930 641	33 643 832	8,8	33 479 735	32 529 757	-2,8
-Coke, petroleum products and nuclear fuel	159 593 866	13 292 716	14 590 315	9,8	14 700 580	14 138 163	-3,8
-Basic chemicals	76 583 427	6 255 452	6 777 216	8,3	6 622 601	6 633 514	0,2
-Other chemical products	75 688 106	6 217 874	7 209 989	16,0	6 970 191	6 963 882	-0,1
-Rubber products	15 688 483	1 547 864	1 388 822	-10,3	1 324 757	1 194 728	-9,8
-Plastic products	43 585 785	3 616 735	3 677 490	1,7	3 861 606	3 599 470	-6,8
Glass and non-metallic mineral products	47 460 718	4 031 203	4 203 846	4,3	4 066 321	4 061 280	-0,1
-Glass and glass products	8 181 045	587 291	648 680	10,5	685 740	730 439	6,5
-Non-metallic mineral products	39 279 673	3 443 912	3 555 166	3,2	3 380 581	3 330 841	-1,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	325 860 391	29 290 981	29 678 168	1,3	28 460 532	27 271 094	-4,2
-Basic iron and steel products	97 345 301	8 802 020	8 891 729	1,0	8 627 088	8 253 064	-4,3
-Non-ferrous metal products	61 964 728	5 129 424	6 021 986	17,4	5 465 432	5 697 938	4,3
-Structural metal products	29 182 727	2 731 865	2 249 114	-17,7	2 503 557	2 037 552	-18,6
-Other fabricated metal products	56 428 755	4 847 886	4 912 414	1,3	4 787 678	4 615 158	-3,6
-General purpose machinery	30 729 277	2 765 604	2 490 033	-10,0	2 610 216	2 467 042	-5,5
-Special purpose machinery	40 218 784	4 051 889	4 130 508	1,9	3 610 323	3 321 954	-8,0
-Household appliances	9 990 819	962 293	982 384	2,1	856 238	878 386	2,6
Electrical machinery	44 835 132	4 343 086	4 317 907	-0,6	3 871 366	3 804 912	-1,7
Radio, television and communication apparatus and professional equipment	15 243 304	1 209 754	1 246 323	3,0	1 225 738	1 252 692	2,2
-Radio, television and communication apparatus	7 500 083	548 166	579 863	5,8	652 803	617 778	-5,4
-Professional equipment	7 743 221	661 588	666 460	0,7	572 934	634 914	10,8
Motor vehicles, parts and accessories and other transport equipment	183 642 534	16 533 522	17 321 711	4,8	16 469 360	15 687 298	-4,7
-Motor vehicles	93 050 573	8 465 472	9 376 892	10,8	8 841 247	8 322 569	-5,9
-Bodies for motor vehicles, trailers and semi-trailers	8 600 730	732 208	674 300	-7,9	715 736	659 058	-7,9
-Parts and accessories	63 923 511	5 830 410	5 607 877	-3,8	5 370 032	5 164 652	-3,8
-Other transport equipment	18 067 720	1 505 432	1 662 642	10,4	1 542 345	1 541 020	-0,1
Furniture and other manufacturing division	62 512 723	5 274 565	5 219 253	-1,0	5 209 405	5 371 301	3,1
-Furniture	13 926 915	1 011 025	1 002 048	-0,9	1 148 974	1 100 125	-4,3
-Other manufacturing groups	48 585 808	4 263 540	4 217 205	-1,1	4 060 431	4 271 176	5,2
Total	1 521 375 086	130 042 791	135 136 446	3,9	132 900 712	129 147 819	-2,8

1/ Preliminary.

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

Manufacturing divisions and major groups	Weights 2005	Production indices (base: 2005=100)			Value of sales (R'000)		
		Jan. to Mar. 2012	Jan. to Mar. 2013	% change between Jan. to Mar. 2012 and Jan. to Mar. 2013	Jan. to Mar. 2012	Jan. to Mar. 2013	% change between Jan. to Mar. 2012 and Jan. to Mar. 2013
Food and beverages	15,4	111,3	111,9	0,5	70 422 301	75 321 291	7,0
-Meat, fish, fruit, etc.	1,8	114,4	110,4	-3,5	17 748 383	18 836 861	6,1
-Dairy products	0,8	120,3	116,8	-2,9	6 566 424	6 963 389	6,0
-Grain mill products	0,8	107,0	112,3	5,0	12 357 788	13 577 612	9,9
-Other food products	5,2	92,0	91,8	-0,2	15 775 167	16 020 059	1,6
-Beverages	6,8	124,6	126,9	1,8	17 974 539	19 923 370	10,8
Textiles, clothing, leather and footwear	4,9	76,6	77,2	0,8	9 120 934	9 402 523	3,1
-Textiles	0,7	60,2	57,5	-4,5	1 136 446	1 145 534	0,8
-Other textile products	0,9	70,3	65,8	-6,4	2 399 712	2 372 172	-1,1
-Knitted, crocheted articles	0,2	84,1	68,2	-18,9	486 532	397 251	-18,4
-Wearing apparel	2,1	73,1	78,9	7,9	3 047 668	3 368 917	10,5
-Leather and leather products	0,6	99,6	100,2	0,6	1 309 132	1 337 032	2,1
-Footwear	0,4	97,0	93,5	-3,6	741 444	781 617	5,4
Wood and wood products, paper, publishing and printing	10,2	96,1	93,1	-3,1	28 275 456	28 700 518	1,5
-Sawmilling and planing of wood	0,7	88,6	82,6	-6,8	2 151 228	2 102 899	-2,2
-Products of wood	1,3	82,6	80,5	-2,5	3 839 641	3 855 449	0,4
-Paper and paper products	3,8	107,9	104,0	-3,6	12 330 096	12 592 728	2,1
-Publishing	1,9	87,4	82,4	-5,7	4 173 048	4 110 732	-1,5
-Printing, recorded media	2,5	93,3	93,8	0,5	5 781 443	6 038 710	4,4
Petroleum, chemical products, rubber and plastic products	22,1	110,2	114,8	4,2	86 337 509	94 740 687	9,7
-Coke, petroleum products and nuclear fuel	8,5	87,5	88,8	1,5	38 762 610	41 758 934	7,7
-Basic chemicals	4,5	127,8	133,2	4,2	17 027 908	18 731 938	10,0
-Other chemical products	5,3	116,8	129,1	10,5	16 679 453	19 771 225	18,5
-Rubber products	1,0	102,3	93,7	-8,4	4 057 652	3 997 179	-1,5
-Plastic products	2,7	142,7	145,5	2,0	9 809 886	10 481 411	6,8
Glass and non-metallic mineral products	4,8	90,0	87,2	-3,1	10 843 426	11 311 891	4,3
-Glass and glass products	1,0	108,9	108,6	-0,3	1 697 872	1 930 758	13,7
-Non-metallic mineral products	3,8	85,3	81,8	-4,1	9 145 554	9 381 133	2,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	92,4	86,1	-6,8	80 122 193	80 802 440	0,8
-Basic iron and steel products	7,7	79,8	66,5	-16,7	25 878 564	25 504 912	-1,4
-Non-ferrous metal products	3,4	101,5	106,6	5,0	14 655 076	15 841 627	8,1
-Structural metal products	2,0	94,0	79,1	-15,9	7 118 308	6 707 750	-5,8
-Other fabricated metal products	3,8	114,8	114,8	0,0	13 306 799	13 518 101	1,6
-General purpose machinery	2,4	70,4	66,0	-6,3	6 914 901	6 813 089	-1,5
-Special purpose machinery	3,1	99,0	92,6	-6,5	9 811 355	9 881 111	0,7
-Household appliances	0,6	108,7	108,5	-0,2	2 437 190	2 535 850	4,0
Electrical machinery	2,5	123,5	123,9	0,3	10 797 503	11 072 445	2,5
Radio, television and communication apparatus and professional equipment	1,1	102,2	102,3	0,1	3 400 756	3 479 277	2,3
-Radio, television and communication apparatus	0,4	108,2	115,9	7,1	1 599 677	1 777 949	11,1
-Professional equipment	0,7	98,4	93,7	-4,8	1 801 079	1 701 328	-5,5
Motor vehicles, parts and accessories and other transport equipment	10,9	101,0	103,9	2,9	43 657 233	47 736 196	9,3
-Motor vehicles	4,9	98,7	107,8	9,2	21 463 292	25 526 375	18,9
-Bodies for motor vehicles, trailers and semi-trailers	0,5	124,3	112,0	-9,9	1 933 868	1 833 763	-5,2
-Parts and accessories	4,7	100,5	98,5	-2,0	16 212 261	16 012 543	-1,2
-Other transport equipment	0,9	103,4	106,8	3,3	4 047 812	4 363 515	7,8
Furniture and other manufacturing division	5,2	88,1	82,9	-5,9	14 864 583	14 688 821	-1,2
-Furniture	1,3	84,9	79,8	-6,0	2 774 666	2 790 013	0,6
-Other manufacturing groups	3,9	89,1	83,9	-5,8	12 089 917	11 898 808	-1,6
Total	100,0	100,3	99,6	-0,7	357 841 894	377 256 089	5,4

Explanatory notes

- Introduction**
- 1 Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry, covering manufacturing enterprises. This statistical release contains the results of a sample drawn from the business sampling frame (BSF), with enhanced coverage of South African businesses (see 4 below). The release contains monthly indices of the physical volume of manufacturing production and monthly value of sales of manufactured products by divisions and major groups within manufacturing.
 - 2 In accordance with international practice, the indices are re-based every five years to a new base year. The base period of the index is 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 March 2013 was 89,9%. Improved collection rate for February 2013 was 92,8%.
- 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 2012 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 2013, 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 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 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. Currently, no adjustment is made for changes in the timing of Easter. Therefore the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.

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

Technical notes**25** Neyman optimal allocation

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

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

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

Class limits: Manufacturing (Rand)

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

Glossary

Enterprise	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 D – 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 – 2013
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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