

Statistical release

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Manufacturing: Production and sales (Preliminary)

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Key figures for January 2012

Table A – Manufacturing production and sales

Estimates	January 2012	% change between January 2011 and January 2012	% change between November 2010 to January 2011 and November 2011 to January 2012
Physical volume of manufacturing production index (base: 2005=100)	90,1	2,4	2,7
Total estimated sales of manufactured products (R million)	103 525	11,5	11,3

Seasonally adjusted estimates	January 2012	% change between December 2011 and January 2012	% change between August to October 2011 and November 2011 to January 2012
Physical volume of manufacturing production index (base: 2005=100)	105,3	1,7	0,4
Total value of sales of manufactured products (R million)	122 613	-0,5	2,9

Manufacturing production for January 2012 increased by 2,4% compared with January 2011.

The 2,4% year-on-year increase in manufacturing production for January 2012 was mainly due to higher production in the following divisions:

- the food and beverages division (6,3% and contributing 1,1 percentage points);
- the basic iron and steel, non-ferrous metal products, metal products and machinery division (4,1% and contributing 0,8 of a percentage point);
- the glass and non-metallic mineral products division (12,2% and contributing 0,5 of a percentage point);
- the wood and wood products, paper, publishing and printing division (5,2% and contributing 0,5 of a percentage point); and
- the petroleum, chemical products, rubber and plastic products division (1,5% and contributing 0,4 of a percentage point) (see Table 4b).

Seasonally adjusted manufacturing production for the three months ended January 2012 increased by 0,4% compared with the previous three months ended October 2011. Four of the ten manufacturing divisions reported positive growth rates over this period.

The increase was driven mainly by higher production recorded for:

- the wood and wood products, paper, publishing and printing division (9,4% and contributing 0,9 of a percentage point);
- the basic iron and steel, non-ferrous metal products, metal products and machinery division (3,2% and contributing 0,6 of a percentage point);
- the petroleum, chemical products, rubber and plastic products division (1,5% and contributing 0,4 of a percentage point); and
- the glass and non-metallic mineral products division (1,4% and contributing 0,1 of a percentage point) (see Table B).

However, these increases were partially counteracted by decreases reported mainly by:

- the motor vehicles, parts and accessories and other transport equipment division (-6,9% and contributing -0,8 of a percentage point); and
- the furniture and other manufacturing division (-9,7% and contributing -0,4 of a percentage point).

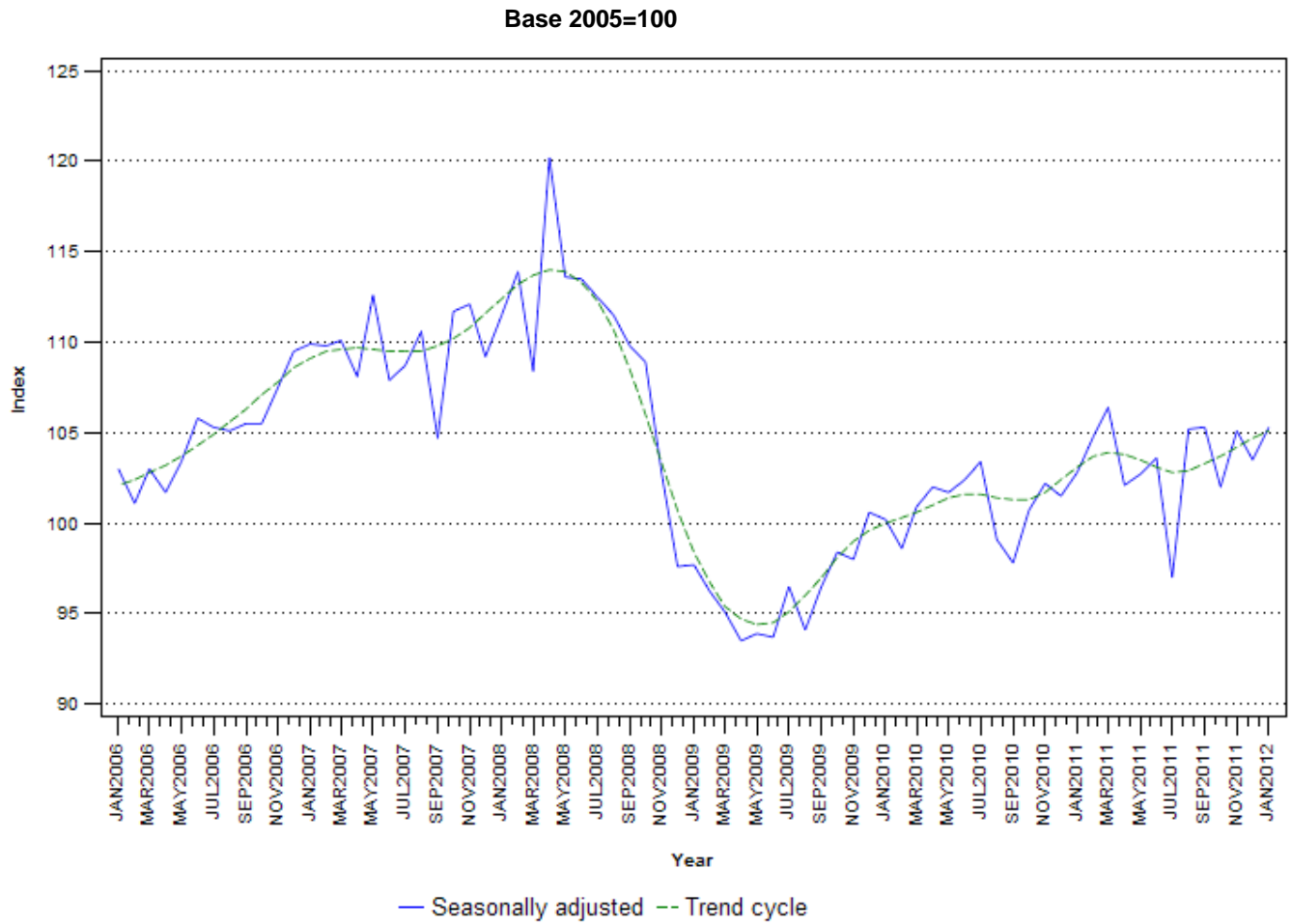
Table B – Contribution of manufacturing divisions and major groups to the total three-monthly seasonally adjusted manufacturing production

Base: 2005=100

Manufacturing divisions and major groups	Weights 2005	Average seasonally adjusted production index for August to October 2011	Average seasonally adjusted production index for November 2011 to January 2012	Quarterly % change of November 2011 to January 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	123,9	123,3	-0,5	-0,1
-Meat, fish, fruit, etc.	1,8	124,6	122,1	-2,0	0,0
-Dairy products	0,8	120,2	121,1	0,7	0,0
-Grain mill products	0,8	113,9	114,9	0,9	0,0
-Other food products	5,2	118,8	117,7	-0,9	-0,1
-Beverages	6,8	129,3	129,2	-0,1	0,0
Textiles, clothing, leather and footwear	4,9	82,8	81,4	-1,7	-0,1
-Textiles	1,6	68,8	70,4	2,3	0,0
-Wearing apparel	2,3	84,6	79,6	-5,9	-0,1
-Leather and leather products	0,6	96,7	97,9	1,2	0,0
-Footwear	0,4	104,4	107,5	3,0	0,0
Wood and wood products, paper, publishing and printing	10,2	96,3	105,4	9,4	0,9
-Wood and products of wood	2,0	87,7	91,6	4,4	0,1
-Paper and paper products	3,8	111,6	117,3	5,1	0,2
-Publishing and printing	4,3	86,6	101,2	16,9	0,6
Petroleum, chemical products, rubber and plastic products	22,1	111,5	113,2	1,5	0,4
-Coke, petroleum products and nuclear fuel	8,5	80,8	80,5	-0,4	0,0
-Basic chemicals	4,5	131,1	139,8	6,6	0,4
-Other chemical products	5,3	125,0	127,3	1,8	0,1
-Rubber products	1,0	99,7	98,6	-1,1	0,0
-Plastic products	2,7	153,1	149,2	-2,5	-0,1
Glass and non-metallic mineral products	4,8	99,0	100,4	1,4	0,1
-Glass and glass products	1,0	115,2	117,0	1,6	0,0
-Non-metallic mineral products	3,8	94,9	96,2	1,4	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	91,1	94,0	3,2	0,6
-Basic iron and steel products	7,7	69,1	81,3	17,7	0,9
-Basic precious, non-ferrous metal products	3,4	112,7	108,9	-3,4	-0,1
-Fabricated metal products	5,7	108,7	107,2	-1,4	-0,1
-Machinery and equipment	6,1	90,0	89,0	-1,1	-0,1
Electrical machinery	2,5	131,5	128,0	-2,7	-0,1
Radio, television and communication apparatus and professional equipment	1,1	113,1	108,3	-4,2	-0,1
-Radio, television and communication apparatus	0,4	119,2	104,9	-12,0	-0,1
-Professional equipment	0,7	109,2	110,5	1,2	0,0
Motor vehicles, parts and accessories and other transport equipment	10,9	106,5	99,1	-6,9	-0,8
-Motor vehicles	4,9	101,5	89,6	-11,7	-0,6
-Bodies for motor vehicles, trailers and semi-trailers	0,5	129,6	134,5	3,8	0,0
-Parts and accessories	4,7	105,1	104,7	-0,4	0,0
-Other transport equipment	0,9	128,1	103,4	-19,3	-0,2
Furniture and other manufacturing division	5,2	92,6	83,6	-9,7	-0,4
-Furniture	1,3	95,6	94,0	-1,7	0,0
-Other manufacturing groups	3,9	91,6	80,2	-12,4	-0,4
Total	100,0	104,2	104,6	0,4	0,4

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

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



Seasonally adjusted sales of manufactured products (at current prices) for the three months ended January 2012 increased by 2,9% (R10 357 million) compared with the previous three months ended October 2011. Five of the ten manufacturing divisions reported positive growth rates over this period (see Table C).

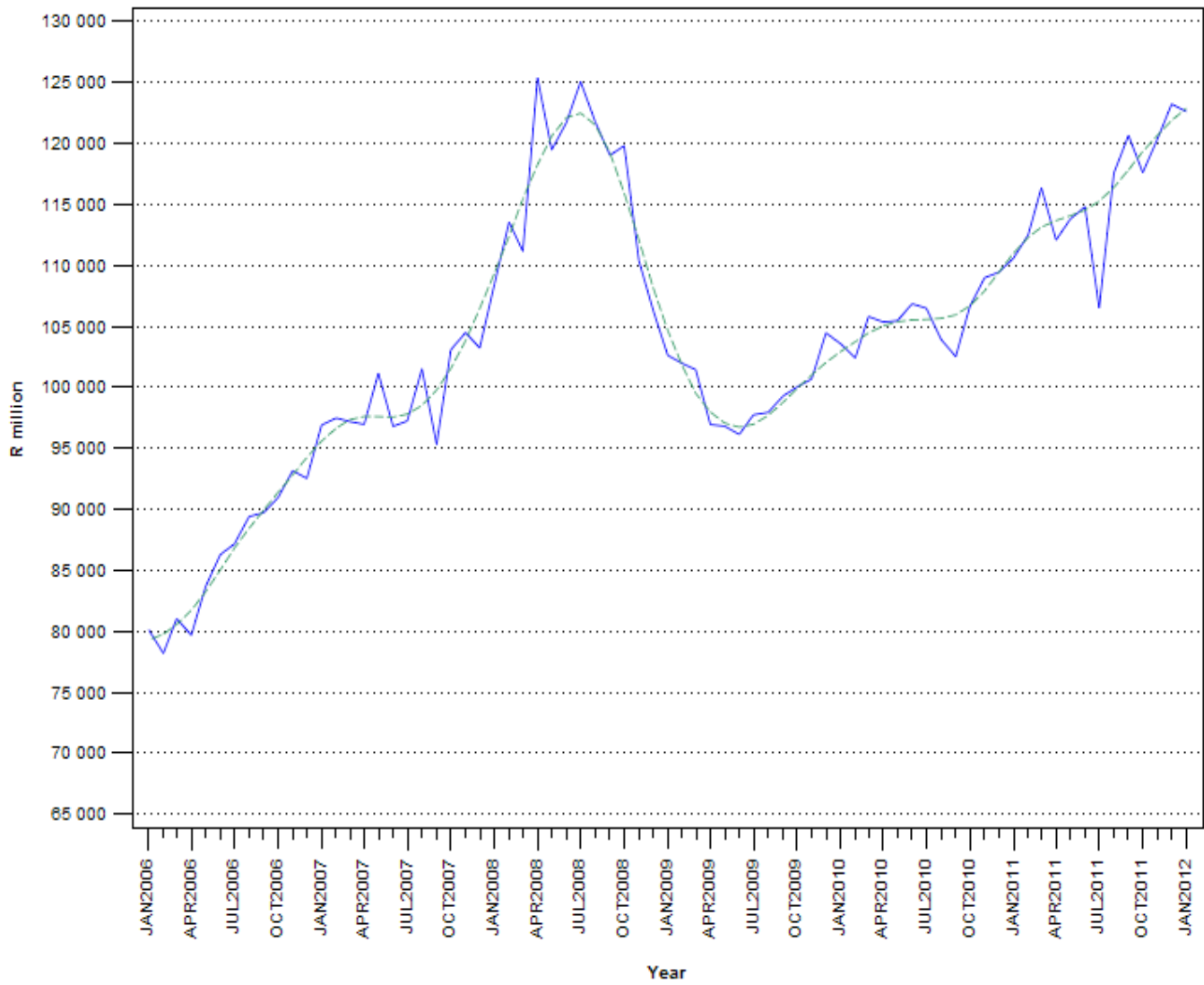
The four manufacturing divisions that were mainly responsible for the increase in total manufacturing sales were:

- the petroleum, chemical products, rubber and plastic products division (6,3% or R5 292 million);
- the basic iron and steel, non-ferrous metal products, metal products and machinery division (6,6% or R5 053 million);
- the wood and wood products, paper, publishing and printing division (11,0% or R3 032 million); and
- the food and beverages division (2,8% or R1 935 million) (see Table C).

Table C – Contribution of manufacturing divisions and major groups to the three-monthly total seasonally adjusted sales of the manufacturing industry at current prices

Manufacturing divisions and major groups	Seasonally adjusted sales August to October 2011	Seasonally adjusted sales November 2011 to January 2012	% change between August to October 2011 and November 2011 to January 2012	Difference in seasonally adjusted sales of manufacturing divisions between August to October 2011 and November 2011 to January 2012
	R'000	R'000	%	R'000
Food and beverages	70 281 459	72 216 565	2,8	1 935 106
-Food and food products	52 968 619	54 410 492	2,7	1 441 873
-Beverages	17 312 839	17 806 073	2,8	493 234
Textiles, clothing, leather and footwear	10 017 395	9 977 948	-0,4	-39 447
-Textiles	4 097 228	4 143 003	1,1	45 775
-Wearing apparel	3 877 240	3 733 895	-3,7	-143 345
-Leather and leather products	1 082 606	1 130 000	4,4	47 394
-Footwear	960 320	971 048	1,1	10 728
Wood and wood products, paper, publishing and printing	27 478 566	30 510 146	11,0	3 031 580
-Wood and products of wood	5 961 218	6 308 666	5,8	347 448
-Paper and paper products	12 303 551	13 142 234	6,8	838 683
-Publishing and printing	9 213 798	11 059 245	20,0	1 845 447
Petroleum, chemical products, rubber and plastic products	83 487 647	88 779 302	6,3	5 291 655
-Coke, petroleum products and nuclear fuel	31 263 987	35 624 492	13,9	4 360 505
-Basic chemicals	17 878 190	18 323 904	2,5	445 714
-Other chemical products	18 581 678	19 410 573	4,5	828 895
-Rubber products	3 881 066	4 014 306	3,4	133 240
-Plastic products	11 882 726	11 406 027	-4,0	-476 699
Glass and non-metallic mineral products	10 934 134	11 141 501	1,9	207 367
-Glass and glass products	1 788 854	1 801 894	0,7	13 040
-Non-metallic mineral products	9 145 279	9 339 607	2,1	194 328
Basic iron and steel, non-ferrous metal products, metal products and machinery	76 997 996	82 051 206	6,6	5 053 210
-Basic iron and steel products	22 440 300	27 530 076	22,7	5 089 776
-Basic precious, non-ferrous metal products	16 168 975	15 545 787	-3,9	-623 188
-Fabricated metal products	19 666 290	20 315 605	3,3	649 315
-Machinery and equipment	18 722 430	18 659 738	-0,3	-62 692
Electrical machinery	10 894 593	10 381 237	-4,7	-513 356
Radio, television and communication apparatus and professional equipment	4 148 457	3 949 690	-4,8	-198 767
-Radio, television and communication apparatus	2 222 587	1 929 985	-13,2	-292 602
-Professional equipment	1 925 871	2 019 704	4,9	93 833
Motor vehicles, parts and accessories and other transport equipment	46 648 446	42 661 920	-8,5	-3 986 526
-Motor vehicles, trailers, parts and accessories	42 112 529	38 884 315	-7,7	-3 228 214
-Other transport equipment	4 535 916	3 777 605	-16,7	-758 311
Furniture and other manufacturing division	14 978 486	14 554 448	-2,8	-424 038
-Furniture	2 922 407	2 941 009	0,6	18 602
-Other manufacturing groups	12 056 080	11 613 438	-3,7	-442 642
Total	355 867 178	366 223 962	2,9	10 356 784

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



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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	1/ 90,1
Feb	96,7	104,7	108,5	91,5	93,7	99,7	
Mar	106,2	113,6	111,9	98,3	104,7	110,4	
Apr	95,6	101,0	111,9	87,1	94,6	94,7	
May	104,3	113,4	114,3	94,2	101,9	102,8	
Jun	106,7	109,2	115,1	94,9	103,8	104,9	
Jul	107,4	111,2	115,2	98,9	106,0	99,5	
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	113,1	
Nov	119,1	124,3	114,3	108,4	113,7	1/ 117,1	
Dec	96,6	96,5	87,8	90,2	90,9	1/ 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	2,4
Feb	1,6	8,3	3,6	-15,7	2,4	6,4	
Mar	4,9	7,0	-1,5	-12,2	6,5	5,4	
Apr	-0,9	5,6	10,8	-22,2	8,6	0,1	
May	3,9	8,7	0,8	-17,6	8,2	0,9	
Jun	6,4	2,3	5,4	-17,5	9,4	1,1	
Jul	6,2	3,5	3,6	-14,1	7,2	-6,1	
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	1,2	
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	100,2	102,8	105,3
Feb	101,1	109,8	113,9	96,2	98,6	104,8	
Mar	103,0	110,1	108,4	95,1	100,9	106,4	
Apr	101,7	108,1	120,2	93,5	102,0	102,1	
May	103,4	112,6	113,6	93,9	101,7	102,7	
Jun	105,8	107,9	113,5	93,7	102,4	103,6	
Jul	105,3	108,7	112,5	96,5	103,4	97,0	
Aug	105,1	110,6	111,5	94,1	99,1	105,2	
Sep	105,5	104,7	109,8	96,5	97,8	105,3	
Oct	105,5	111,7	108,9	98,4	100,7	102,0	
Nov	107,5	112,1	102,7	98,0	102,2	105,1	
Dec	109,5	109,2	97,6	100,6	101,5	103,5	

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		
			January 2011	1/ December 2011	1/ January 2012	January 2011	December 2011	January 2012
Food and beverages	15,4	119,2	98,0	136,4	104,2	116,9	121,9	124,4
-Meat, fish, fruit, etc.	1,8	120,2	97,7	130,0	101,6	115,9	121,3	121,2
-Dairy products	0,8	117,9	111,7	131,9	119,0	112,5	117,6	120,3
-Grain mill products	0,8	109,3	94,1	112,2	106,6	104,5	111,8	118,8
-Other food products	5,2	115,7	83,4	103,6	84,9	115,9	118,2	118,4
-Beverages	6,8	123,0	108,1	166,4	117,5	120,1	126,5	130,9
Textiles, clothing, leather and footwear	4,9	81,9	59,4	64,0	59,8	80,2	80,8	80,3
-Textiles	0,7	60,5	47,2	44,7	51,4	62,9	64,8	68,4
-Other textile products	0,9	72,7	55,4	51,8	63,0	71,2	67,9	80,5
-Knitted, crocheted articles	0,2	90,2	70,7	60,1	65,1	97,1	82,5	88,9
-Wearing apparel	2,1	83,2	56,8	70,0	51,5	80,2	83,5	72,6
-Leather and leather products	0,6	95,0	79,3	75,5	86,0	91,4	90,6	100,0
-Footwear	0,4	106,2	66,9	74,6	67,7	104,3	105,0	105,7
Wood and wood products, paper, publishing and printing	10,2	97,7	86,5	98,3	91,0	100,0	106,4	104,8
-Sawmilling and planing of wood	0,7	87,0	75,0	75,4	79,9	85,4	101,0	90,6
-Products of wood	1,3	88,5	76,3	74,6	74,0	91,5	91,0	88,4
-Paper and paper products	3,8	111,0	98,1	116,1	102,5	111,2	117,4	116,2
-Publishing	1,9	87,0	75,4	108,8	90,5	84,3	114,9	100,8
-Printing, recorded media	2,5	93,0	85,5	81,7	85,5	102,9	92,6	102,6
Petroleum, chemical products, rubber and plastic products	22,1	113,0	100,1	103,7	101,6	112,1	113,7	114,1
-Coke, petroleum products and nuclear fuel	8,5	88,7	87,5	79,2	82,9	89,6	78,2	85,2
-Basic chemicals	4,5	131,9	118,9	127,2	126,3	133,0	145,3	140,6
-Other chemical products	5,3	121,6	96,7	121,4	102,6	117,0	131,6	124,2
-Rubber products	1,0	96,7	83,9	57,3	87,9	96,1	86,1	100,7
-Plastic products	2,7	146,9	121,0	123,0	122,5	143,9	147,1	145,8
Glass and non-metallic mineral products	4,8	96,6	72,9	77,9	81,8	91,3	93,5	103,1
-Glass and glass products	1,0	116,4	104,5	91,7	108,9	120,0	96,5	125,0
-Non-metallic mineral products	3,8	91,7	65,0	74,4	75,0	84,1	92,8	97,6
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	91,8	78,6	80,5	81,8	90,3	94,7	94,0
-Basic iron and steel products	7,7	78,4	71,2	70,8	77,3	77,1	82,3	83,5
-Non-ferrous metal products	3,4	109,2	102,4	102,5	104,7	108,2	108,2	110,5
-Structural metal products	2,0	89,9	70,7	72,8	72,1	90,4	94,1	91,9
-Other fabricated metal products	3,8	112,0	92,0	84,6	92,7	113,6	115,4	114,4
-General purpose machinery	2,4	72,7	60,9	64,3	56,2	70,7	71,7	65,4
-Special purpose machinery	3,1	95,0	71,6	93,1	79,4	88,0	100,6	98,8
-Household appliances	0,6	101,3	84,6	78,5	85,9	99,0	107,6	100,7
Electrical machinery	2,5	130,0	106,9	99,1	97,7	131,6	125,2	120,7
Radio, television and communication apparatus and professional equipment	1,1	105,9	71,8	98,1	86,6	91,2	107,1	110,6
-Radio, television and communication apparatus	0,4	104,2	61,8	86,1	92,7	78,5	87,0	117,8
-Professional equipment	0,7	107,0	78,2	105,7	82,8	99,3	119,8	106,0
Motor vehicles, parts and accessories and other transport equipment	10,9	103,1	89,3	64,1	87,1	104,5	96,9	101,5
-Motor vehicles	4,9	96,5	79,4	52,0	82,0	93,9	85,2	95,6
-Bodies for motor vehicles, trailers and semi-trailers	0,5	126,8	86,3	97,9	91,2	127,0	140,8	135,3
-Parts and accessories	4,7	104,7	97,3	67,5	90,0	111,4	103,4	103,0
-Other transport equipment	0,9	117,6	101,8	93,1	96,7	114,3	103,8	108,5
Furniture and other manufacturing division	5,2	92,9	82,8	63,3	73,6	98,7	72,9	86,8
-Furniture	1,3	93,9	71,9	74,6	66,2	106,2	88,4	97,4
-Other manufacturing groups	3,9	92,6	86,5	59,6	76,1	96,2	67,8	83,2
Total	100,0	103,5	88,0	93,1	90,1	102,8	103,5	105,3

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 2011	Actual indices			Seasonally adjusted indices		
			January 2011	1/ January 2012	% change between January 2011 and January 2012	December 2011	January 2012	% change between December 2011 and January 2012
Food and beverages	15,4	119,2	98,0	104,2	6,3	121,9	124,4	2,1
-Meat, fish, fruit, etc.	1,8	120,2	97,7	101,6	4,0	121,3	121,2	-0,1
-Dairy products	0,8	117,9	111,7	119,0	6,5	117,6	120,3	2,3
-Grain mill products	0,8	109,3	94,1	106,6	13,3	111,8	118,8	6,3
-Other food products	5,2	115,7	83,4	84,9	1,8	118,2	118,4	0,2
-Beverages	6,8	123,0	108,1	117,5	8,7	126,5	130,9	3,5
Textiles, clothing, leather and footwear	4,9	81,9	59,4	59,8	0,7	80,8	80,3	-0,6
-Textiles	0,7	60,5	47,2	51,4	8,9	64,8	68,4	5,6
-Other textile products	0,9	72,7	55,4	63,0	13,7	67,9	80,5	18,6
-Knitted, crocheted articles	0,2	90,2	70,7	65,1	-7,9	82,5	88,9	7,8
-Wearing apparel	2,1	83,2	56,8	51,5	-9,3	83,5	72,6	-13,1
-Leather and leather products	0,6	95,0	79,3	86,0	8,4	90,6	100,0	10,4
-Footwear	0,4	106,2	66,9	67,7	1,2	105,0	105,7	0,7
Wood and wood products, paper, publishing and printing	10,2	97,7	86,5	91,0	5,2	106,4	104,8	-1,5
-Sawmilling and planing of wood	0,7	87,0	75,0	79,9	6,5	101,0	90,6	-10,3
-Products of wood	1,3	88,5	76,3	74,0	-3,0	91,0	88,4	-2,9
-Paper and paper products	3,8	111,0	98,1	102,5	4,5	117,4	116,2	-1,0
-Publishing	1,9	87,0	75,4	90,5	20,0	114,9	100,8	-12,3
-Printing, recorded media	2,5	93,0	85,5	85,5	0,0	92,6	102,6	10,8
Petroleum, chemical products, rubber and plastic products	22,1	113,0	100,1	101,6	1,5	113,7	114,1	0,4
-Coke, petroleum products and nuclear fuel	8,5	88,7	87,5	82,9	-5,3	78,2	85,2	9,0
-Basic chemicals	4,5	131,9	118,9	126,3	6,2	145,3	140,6	-3,2
-Other chemical products	5,3	121,6	96,7	102,6	6,1	131,6	124,2	-5,6
-Rubber products	1,0	96,7	83,9	87,9	4,8	86,1	100,7	17,0
-Plastic products	2,7	146,9	121,0	122,5	1,2	147,1	145,8	-0,9
Glass and non-metallic mineral products	4,8	96,6	72,9	81,8	12,2	93,5	103,1	10,3
-Glass and glass products	1,0	116,4	104,5	108,9	4,2	96,5	125,0	29,5
-Non-metallic mineral products	3,8	91,7	65,0	75,0	15,4	92,8	97,6	5,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	91,8	78,6	81,8	4,1	94,7	94,0	-0,7
-Basic iron and steel products	7,7	78,4	71,2	77,3	8,6	82,3	83,5	1,5
-Non-ferrous metal products	3,4	109,2	102,4	104,7	2,2	108,2	110,5	2,1
-Structural metal products	2,0	89,9	70,7	72,1	2,0	94,1	91,9	-2,3
-Other fabricated metal products	3,8	112,0	92,0	92,7	0,8	115,4	114,4	-0,9
-General purpose machinery	2,4	72,7	60,9	56,2	-7,7	71,7	65,4	-8,8
-Special purpose machinery	3,1	95,0	71,6	79,4	10,9	100,6	98,8	-1,8
-Household appliances	0,6	101,3	84,6	85,9	1,5	107,6	100,7	-6,4
Electrical machinery	2,5	130,0	106,9	97,7	-8,6	125,2	120,7	-3,6
Radio, television and communication apparatus and professional equipment	1,1	105,9	71,8	86,6	20,6	107,1	110,6	3,3
-Radio, television and communication apparatus	0,4	104,2	61,8	92,7	50,0	87,0	117,8	35,4
-Professional equipment	0,7	107,0	78,2	82,8	5,9	119,8	106,0	-11,5
Motor vehicles, parts and accessories and other transport equipment	10,9	103,1	89,3	87,1	-2,5	96,9	101,5	4,7
-Motor vehicles	4,9	96,5	79,4	82,0	3,3	85,2	95,6	12,2
-Bodies for motor vehicles, trailers and semi-trailers	0,5	126,8	86,3	91,2	5,7	140,8	135,3	-3,9
-Parts and accessories	4,7	104,7	97,3	90,0	-7,5	103,4	103,0	-0,4
-Other transport equipment	0,9	117,6	101,8	96,7	-5,0	103,8	108,5	4,5
Furniture and other manufacturing division	5,2	92,9	82,8	73,6	-11,1	72,9	86,8	19,1
-Furniture	1,3	93,9	71,9	66,2	-7,9	88,4	97,4	10,2
-Other manufacturing groups	3,9	92,6	86,5	76,1	-12,0	67,8	83,2	22,7
Total	100,0	103,5	88,0	90,1	2,4	103,5	105,3	1,7

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	67 351 678	81 459 988	91 280 084	85 793 294	86 836 064	92 863 625	1/ 103 525 018
Feb	74 930 635	93 134 142	108 137 770	97 350 713	97 825 640	107 158 143	
Mar	83 169 373	100 113 755	114 652 520	105 127 970	110 232 624	121 108 364	
Apr	74 690 973	90 606 196	116 896 823	90 156 553	97 707 572	103 921 168	
May	83 925 122	101 641 507	120 173 410	96 487 420	105 089 142	113 377 474	
Jun	87 683 125	98 764 796	124 811 522	98 161 671	109 279 984	117 502 258	
Jul	88 860 703	99 325 320	128 335 265	99 715 325	108 621 205	108 591 835	
Aug	92 520 358	104 978 175	126 167 640	100 731 886	106 288 802	119 985 649	
Sep	94 724 833	100 538 717	125 588 533	104 781 622	108 523 831	127 892 291	
Oct	99 968 405	113 462 255	131 772 450	109 759 231	116 804 203	128 378 804	
Nov	103 494 740	116 007 502	122 615 454	111 844 877	121 292 114	1/ 133 563 590	
Dec	82 554 715	91 954 469	95 903 778	95 002 438	99 664 494	1/ 112 269 251	
Year	1 033 874 660	1 191 986 822	1 406 335 249	1 194 913 000	1 268 165 675	1 386 612 452	

1/ Preliminary.

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	20,9	12,1	-6,0	1,2	6,9	11,5
Feb	6,8	24,3	16,1	-10,0	0,5	9,5	
Mar	11,5	20,4	14,5	-8,3	4,9	9,9	
Apr	1,5	21,3	29,0	-22,9	8,4	6,4	
May	10,7	21,1	18,2	-19,7	8,9	7,9	
Jun	13,4	12,6	26,4	-21,4	11,3	7,5	
Jul	15,0	11,8	29,2	-22,3	8,9	0,0	
Aug	16,0	13,5	20,2	-20,2	5,5	12,9	
Sep	14,3	6,1	24,9	-16,6	3,6	17,8	
Oct	20,8	13,5	16,1	-16,7	6,4	9,9	
Nov	19,7	12,1	5,7	-8,8	8,4	10,1	
Dec	12,4	11,4	4,3	-0,9	4,9	12,6	
Year	13,0	15,3	18,0	-15,0	6,1	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	80 123 065	96 913 165	108 460 939	102 633 623	103 582 991	110 600 280	122 612 503
Feb	78 193 821	97 490 544	113 565 210	101 966 191	102 418 534	112 508 138	
Mar	81 036 793	97 206 203	111 172 186	101 452 779	105 816 962	116 373 865	
Apr	79 688 935	96 974 745	125 385 526	96 950 573	105 363 917	112 087 992	
May	83 641 763	101 163 757	119 484 073	96 828 110	105 474 563	113 807 717	
Jun	86 281 905	96 806 931	121 722 729	96 146 553	106 854 028	114 809 796	
Jul	87 164 111	97 251 464	125 071 760	97 750 354	106 497 424	106 517 015	
Aug	89 407 284	101 521 910	121 775 516	97 953 170	103 956 298	117 583 421	
Sep	89 730 072	95 322 166	119 033 350	99 279 765	102 525 855	120 667 157	
Oct	90 947 937	103 077 950	119 820 663	100 039 095	106 642 950	117 616 600	
Nov	93 169 938	104 501 658	110 404 492	100 695 566	108 988 699	120 370 704	
Dec	92 542 859	103 240 467	106 354 210	104 473 679	109 450 079	123 240 755	

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		
		January 2011	1/ December 2011	1/ January 2012	January 2011	December 2011	January 2012
Food and beverages	270 524 489	18 018 179	27 370 028	20 985 329	20 966 762	23 778 230	24 457 459
-Meat, fish, fruit, etc.	74 861 930	4 891 516	7 236 301	5 297 595	5 867 359	6 485 115	6 386 995
-Dairy products	23 902 273	1 782 526	2 298 481	2 019 340	1 868 571	2 051 260	2 129 114
-Grain mill products	46 414 182	3 027 196	4 256 742	3 989 388	3 344 367	4 151 070	4 415 194
-Other food products	59 169 663	4 041 517	5 041 472	4 633 148	4 779 277	5 211 524	5 476 598
-Beverages	66 176 441	4 275 424	8 537 032	5 045 858	5 107 188	5 879 260	6 049 558
Textiles, clothing, leather and footwear	39 157 853	2 313 352	2 766 093	2 416 838	3 190 934	3 331 154	3 317 811
-Textiles	4 426 801	280 650	283 638	295 410	382 681	393 400	401 464
-Other textile products	11 406 902	674 754	810 571	753 685	903 666	995 850	1 005 496
-Knitted, crocheted articles	1 706 878	105 017	99 750	105 045	145 901	133 301	144 884
-Wearing apparel	13 552 414	768 484	1 009 475	721 840	1 114 964	1 125 228	1 046 658
-Leather and leather products	4 274 369	308 178	289 288	341 661	346 890	370 237	384 732
-Footwear	3 790 489	176 269	273 371	199 197	296 831	313 137	334 576
Wood and wood products, paper, publishing and printing	111 061 711	7 839 320	9 514 453	8 584 568	9 248 178	10 370 525	10 109 190
-Sawmilling and planing of wood	8 330 875	586 703	637 314	641 891	679 219	798 139	744 640
-Products of wood	15 601 183	1 099 599	1 097 551	1 110 330	1 338 283	1 325 800	1 341 874
-Paper and paper products	48 576 826	3 291 947	4 287 668	3 646 212	3 878 647	4 451 305	4 305 924
-Publishing	17 011 620	1 224 476	1 875 181	1 493 908	1 377 411	1 950 647	1 675 138
-Printing, recorded media	21 541 207	1 636 595	1 616 739	1 692 227	1 974 618	1 844 633	2 041 615
Petroleum, chemical products, rubber and plastic products	327 045 519	20 882 511	26 429 487	27 428 389	23 764 639	29 462 117	30 610 725
-Coke, petroleum products and nuclear fuel	125 525 877	7 563 038	10 239 165	12 947 363	7 809 104	11 522 006	13 245 992
-Basic chemicals	68 970 871	4 633 216	5 686 586	5 126 500	5 338 449	6 287 079	5 913 930
-Other chemical products	73 150 065	4 794 227	6 253 146	5 145 559	5 922 432	6 608 952	6 371 393
-Rubber products	14 593 850	910 423	1 013 781	1 050 185	1 133 386	1 302 329	1 304 156
-Plastic products	44 804 856	2 981 607	3 236 809	3 158 782	3 561 268	3 741 751	3 775 254
Glass and non-metallic mineral products	42 521 354	2 585 828	2 921 826	2 881 905	3 353 185	3 635 551	3 757 484
-Glass and glass products	7 094 686	484 074	572 745	499 271	589 287	583 132	608 613
-Non-metallic mineral products	35 426 668	2 101 754	2 349 081	2 382 634	2 763 898	3 052 419	3 148 870
Basic iron and steel, non-ferrous metal products, metal products and machinery	306 440 174	21 829 499	23 185 521	22 362 602	26 200 682	28 415 895	26 946 320
-Basic iron and steel products	97 801 939	7 712 484	7 245 186	7 692 423	8 785 408	9 742 604	8 792 299
-Non-ferrous metal products	61 809 327	4 694 486	5 097 139	4 525 659	5 578 999	5 655 400	5 364 390
-Structural metal products	27 396 728	1 690 430	1 916 687	1 953 895	2 244 251	2 472 929	2 579 260
-Other fabricated metal products	47 606 035	3 091 908	3 234 423	3 364 490	3 884 157	4 265 153	4 225 399
-General purpose machinery	29 673 250	2 051 539	2 284 567	1 965 290	2 435 602	2 525 755	2 332 196
-Special purpose machinery	33 012 952	1 964 560	2 790 321	2 232 492	2 517 698	2 964 979	2 891 183
-Household appliances	9 139 943	624 092	617 198	628 353	754 568	789 075	761 594
-Electrical machinery	41 526 944	2 659 568	2 718 223	2 520 778	3 491 164	3 376 214	3 320 115
Radio, television and communication apparatus and professional equipment	15 336 307	865 978	1 244 676	970 508	1 149 340	1 302 966	1 300 930
-Radio, television and communication apparatus	7 676 027	403 658	588 608	470 092	567 154	577 529	665 806
-Professional equipment	7 660 280	462 320	656 068	500 416	582 186	725 438	635 123
Motor vehicles, parts and accessories and other transport equipment	173 886 567	10 826 332	11 512 657	11 217 218	13 658 720	14 773 371	14 080 850
-Motor vehicles	86 281 272	4 772 955	6 250 876	4 729 771	6 649 360	7 350 760	6 582 379
-Bodies for motor vehicles, trailers and semi-trailers	8 264 449	442 052	550 613	480 250	675 301	721 858	735 296
-Parts and accessories	62 754 704	4 461 364	3 586 867	4 831 363	5 033 034	5 429 829	5 435 382
-Other transport equipment	16 586 142	1 149 961	1 124 301	1 175 834	1 301 025	1 270 925	1 327 793
Furniture and other manufacturing division	59 111 534	5 043 058	4 606 287	4 156 883	5 576 676	4 794 732	4 711 620
-Furniture	11 586 427	707 728	805 014	672 786	1 058 777	923 240	1 002 778
-Other manufacturing groups	47 525 107	4 335 330	3 801 273	3 484 097	4 517 898	3 871 491	3 708 842
Total	1 386 612 452	92 863 625	112 269 251	103 525 018	110 600 280	123 240 755	122 612 503

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 2011	Actual values			Seasonally adjusted values		
		January 2011	1/ January 2012	Percentage change between January 2011 and January 2012	December 2011	January 2012	Percentage change between December 2011 and January 2012
Food and beverages	270 524 489	18 018 179	20 985 329	16,5	23 778 230	24 457 459	2,9
-Meat, fish, fruit, etc.	74 861 930	4 891 516	5 297 595	8,3	6 485 115	6 386 995	-1,5
-Dairy products	23 902 273	1 782 526	2 019 340	13,3	2 051 260	2 129 114	3,8
-Grain mill products	46 414 182	3 027 196	3 989 388	31,8	4 151 070	4 415 194	6,4
-Other food products	59 169 663	4 041 517	4 633 148	14,6	5 211 524	5 476 598	5,1
-Beverages	66 176 441	4 275 424	5 045 858	18,0	5 879 260	6 049 558	2,9
Textiles, clothing, leather and footwear	39 157 853	2 313 352	2 416 838	4,5	3 331 154	3 317 811	-0,4
-Textiles	4 426 801	280 650	295 410	5,3	393 400	401 464	2,0
-Other textile products	11 406 902	674 754	753 685	11,7	995 850	1 005 496	1,0
-Knitted, crocheted articles	1 706 878	105 017	105 045	0,0	133 301	144 884	8,7
-Wearing apparel	13 552 414	768 484	721 840	-6,1	1 125 228	1 046 658	-7,0
-Leather and leather products	4 274 369	308 178	341 661	10,9	370 237	384 732	3,9
-Footwear	3 790 489	176 269	199 197	13,0	313 137	334 576	6,8
Wood and wood products, paper, publishing and printing	111 061 711	7 839 320	8 584 568	9,5	10 370 525	10 109 190	-2,5
-Sawmilling and planing of wood	8 330 875	586 703	641 891	9,4	798 139	744 640	-6,7
-Products of wood	15 601 183	1 099 599	1 110 330	1,0	1 325 800	1 341 874	1,2
-Paper and paper products	48 576 826	3 291 947	3 646 212	10,8	4 451 305	4 305 924	-3,3
-Publishing	17 011 620	1 224 476	1 493 908	22,0	1 950 647	1 675 138	-14,1
-Printing, recorded media	21 541 207	1 636 595	1 692 227	3,4	1 844 633	2 041 615	10,7
Petroleum, chemical products, rubber and plastic products	327 045 519	20 882 511	27 428 389	31,3	29 462 117	30 610 725	3,9
-Coke, petroleum products and nuclear fuel	125 525 877	7 563 038	12 947 363	71,2	11 522 006	13 245 992	15,0
-Basic chemicals	68 970 871	4 633 216	5 126 500	10,6	6 287 079	5 913 930	-5,9
-Other chemical products	73 150 065	4 794 227	5 145 559	7,3	6 608 952	6 371 393	-3,6
-Rubber products	14 593 850	910 423	1 050 185	15,4	1 302 329	1 304 156	0,1
-Plastic products	44 804 856	2 981 607	3 158 782	5,9	3 741 751	3 775 254	0,9
Glass and non-metallic mineral products	42 521 354	2 585 828	2 881 905	11,4	3 635 551	3 757 484	3,4
-Glass and glass products	7 094 686	484 074	499 271	3,1	583 132	608 613	4,4
-Non-metallic mineral products	35 426 668	2 101 754	2 382 634	13,4	3 052 419	3 148 870	3,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	306 440 174	21 829 499	22 362 602	2,4	28 415 895	26 946 320	-5,2
-Basic iron and steel products	97 801 939	7 712 484	7 692 423	-0,3	9 742 604	8 792 299	-9,8
-Non-ferrous metal products	61 809 327	4 694 486	4 525 659	-3,6	5 655 400	5 364 390	-5,1
-Structural metal products	27 396 728	1 690 430	1 953 895	15,6	2 472 929	2 579 260	4,3
-Other fabricated metal products	47 606 035	3 091 908	3 364 490	8,8	4 265 153	4 225 399	-0,9
-General purpose machinery	29 673 250	2 051 539	1 965 290	-4,2	2 525 755	2 332 196	-7,7
-Special purpose machinery	33 012 952	1 964 560	2 232 492	13,6	2 964 979	2 891 183	-2,5
-Household appliances	9 139 943	624 092	628 353	0,7	789 075	761 594	-3,5
Electrical machinery	41 526 944	2 659 568	2 520 778	-5,2	3 376 214	3 320 115	-1,7
Radio, television and communication apparatus and professional equipment	15 336 307	865 978	970 508	12,1	1 302 966	1 300 930	-0,2
-Radio, television and communication apparatus	7 676 027	403 658	470 092	16,5	577 529	665 806	15,3
-Professional equipment	7 660 280	462 320	500 416	8,2	725 438	635 123	-12,4
Motor vehicles, parts and accessories and other transport equipment	173 886 567	10 826 332	11 217 218	3,6	14 773 371	14 080 850	-4,7
-Motor vehicles	86 281 272	4 772 955	4 729 771	-0,9	7 350 760	6 582 379	-10,5
-Bodies for motor vehicles, trailers and semi-trailers	8 264 449	442 052	480 250	8,6	721 858	735 296	1,9
-Parts and accessories	62 754 704	4 461 364	4 831 363	8,3	5 429 829	5 435 382	0,1
-Other transport equipment	16 586 142	1 149 961	1 175 834	2,2	1 270 925	1 327 793	4,5
Furniture and other manufacturing division	59 111 534	5 043 058	4 156 883	-17,6	4 794 732	4 711 620	-1,7
-Furniture	11 586 427	707 728	672 786	-4,9	923 240	1 002 778	8,6
-Other manufacturing groups	47 525 107	4 335 330	3 484 097	-19,6	3 871 491	3 708 842	-4,2
Total	1 386 612 452	92 863 625	103 525 018	11,5	123 240 755	122 612 503	-0,5

1/ Preliminary.

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

Manufacturing divisions and major groups	Weights 2005	Production indices (base: 2005=100)			Value of sales (R'000)		
		Nov. 2010 to Jan. 2011	Nov. 2011 to Jan. 2012	Annual percentage change between Nov. 2010 to Jan. 2011 and Nov. 2011 to Jan. 2012	Nov. 2010 to Jan. 2011	Nov. 2011 to Jan. 2012	Annual percentage change between Nov. 2010 to Jan. 2011 and Nov. 2011 to Jan. 2012
Food and beverages	15,4	120,2	126,2	5,0	66 432 502	74 972 114	12,9
-Meat, fish, fruit, etc.	1,8	117,8	121,4	3,1	17 790 455	19 684 882	10,6
-Dairy products	0,8	122,1	129,1	5,7	5 981 517	6 653 871	11,2
-Grain mill products	0,8	105,2	113,2	7,6	10 319 434	12 669 120	22,8
-Other food products	5,2	102,5	105,3	2,7	14 311 940	15 755 578	10,1
-Beverages	6,8	135,9	144,6	6,4	18 029 156	20 208 663	12,1
Textiles, clothing, leather and footwear	4,9	74,4	74,4	0,0	8 888 791	9 208 927	3,6
-Textiles	0,7	54,5	55,0	0,9	950 613	999 587	5,2
-Other textile products	0,9	65,1	67,7	4,0	2 504 285	2 714 145	8,4
-Knitted, crocheted articles	0,2	82,6	69,4	-16,0	363 089	361 589	-0,4
-Wearing apparel	2,1	76,7	74,5	-2,9	3 252 204	3 166 572	-2,6
-Leather and leather products	0,6	87,3	92,9	6,4	937 167	1 042 280	11,2
-Footwear	0,4	92,5	93,2	0,8	881 433	924 754	4,9
Wood and wood products, paper, publishing and printing	10,2	95,5	103,0	7,9	26 385 484	29 518 190	11,9
-Sawmilling and planing of wood	0,7	77,6	84,7	9,1	1 823 064	2 081 245	14,2
-Products of wood	1,3	85,7	84,9	-0,9	3 670 197	3 791 261	3,3
-Paper and paper products	3,8	110,1	115,3	4,7	11 521 216	12 697 549	10,2
-Publishing	1,9	81,3	104,0	27,9	3 978 410	5 156 113	29,6
-Printing, recorded media	2,5	93,7	97,8	4,4	5 392 597	5 792 022	7,4
Petroleum, chemical products, rubber and plastic products	22,1	106,3	109,4	2,9	68 283 621	84 838 372	24,2
-Coke, petroleum products and nuclear fuel	8,5	84,8	79,2	-6,6	22 019 020	33 352 881	51,5
-Basic chemicals	4,5	126,4	135,7	7,4	15 752 636	17 903 663	13,7
-Other chemical products	5,3	112,5	122,0	8,4	17 206 542	18 882 694	9,7
-Rubber products	1,0	80,7	89,5	10,9	2 965 216	3 660 380	23,4
-Plastic products	2,7	137,4	142,8	3,9	10 340 207	11 038 754	6,8
Glass and non-metallic mineral products	4,8	86,4	93,4	8,1	9 445 615	10 206 000	8,1
-Glass and glass products	1,0	122,7	121,9	-0,7	1 890 245	1 917 093	1,4
-Non-metallic mineral products	3,8	77,3	86,2	11,5	7 555 370	8 288 907	9,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	83,1	87,6	5,4	68 420 383	74 688 268	9,2
-Basic iron and steel products	7,7	68,8	74,9	8,9	22 429 207	24 043 546	7,2
-Non-ferrous metal products	3,4	102,6	106,0	3,3	13 636 917	14 634 895	7,3
-Structural metal products	2,0	85,6	81,2	-5,1	6 035 034	6 535 415	8,3
-Other fabricated metal products	3,8	100,5	105,7	5,2	10 354 680	11 845 157	14,4
-General purpose machinery	2,4	68,2	69,2	1,5	6 810 962	7 313 634	7,4
-Special purpose machinery	3,1	84,5	94,1	11,4	7 086 819	8 159 968	15,1
-Household appliances	0,6	90,4	93,6	3,5	2 066 764	2 155 653	4,3
Electrical machinery	2,5	120,1	116,7	-2,8	9 139 860	9 339 787	2,2
Radio, television and communication apparatus and professional equipment	1,1	91,1	101,3	11,2	3 389 262	3 703 392	9,3
-Radio, television and communication apparatus	0,4	93,6	100,9	7,8	1 786 242	1 849 753	3,6
-Professional equipment	0,7	89,6	101,6	13,4	1 603 020	1 853 639	15,6
Motor vehicles, parts and accessories and other transport equipment	10,9	95,0	87,1	-8,3	38 739 225	38 550 377	-0,5
-Motor vehicles	4,9	88,5	78,1	-11,8	19 611 524	18 658 135	-4,9
-Bodies for motor vehicles, trailers and semi-trailers	0,5	105,5	113,0	7,1	1 750 437	1 889 038	7,9
-Parts and accessories	4,7	97,6	91,5	-6,3	13 654 397	14 398 770	5,5
-Other transport equipment	0,9	110,5	99,6	-9,9	3 722 867	3 604 434	-3,2
Furniture and other manufacturing division	5,2	88,1	81,4	-7,6	14 695 490	14 332 432	-2,5
-Furniture	1,3	90,1	89,2	-1,0	2 729 647	2 840 157	4,0
-Other manufacturing groups	3,9	87,5	78,8	-9,9	11 965 843	11 492 275	-4,0
Total	100,0	97,5	100,1	2,7	313 820 233	349 357 859	11,3

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 Register (BR), 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 updating its BR, based on units registered for value added tax (VAT) and income tax (IT), obtained from the South African Revenue Service (SARS).
- Purpose of the survey**
- 5 The results of the monthly manufacturing production and sales survey are used to calculate indices of the physical volume of manufacturing production. These indices provide an indicator of the real level of manufacturing activity in the economy. They are used in monitoring the state of the economy and formulation of economic policy. They are also important inputs to estimation of the gross domestic product (GDP).
- Special Data Dissemination Standard of the IMF**
- 6 The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.
- Scope of the survey**
- 7 This survey covers manufacturing enterprises, i.e. those conducting activities in -
 - the manufacturing, processing, making or packing of products;
 - the slaughtering of animals, including poultry; and
 - installation, assembly, completion, repair and related work.
- Classification**
- 8 The 1993 edition of the *Standard Industrial Classification of all Economic Activities (SIC)*, Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 *International Standard Industrial Classification of all Economic Activities (ISIC)* with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two digit) and major group (three digit) level.
- Collection rate**
- 9 The preliminary collection rate for the survey on manufacturing production and sales for January 2012 was 89,7%. Improved collection rate for December 2011 was 92,7%.
- Statistical unit**
- 10 The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

Survey methodology and design

- 11 The survey is conducted monthly. Questionnaires are sent to a sample of 3 029 enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Fax and telephone reminders are used to follow up non-respondents.
- 12 The value of sales of manufactured products is obtained monthly from the sample of 3 029 enterprises, which was drawn in April 2011 from a population then of 51 805 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, which are in line with international best practice, are described in more detail on the Stats SA website at www.statssa.gov.za/publications/publicationsearch.asp
- 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 2011, 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 2011).

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 |

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

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 – 2011
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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