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Contents

Page

SUMMARY OF FINDINGS: MANUFACTURING PRODUCTION AND SALES	2
Table 1 – Total index of the physical volume of manufacturing production: 2003 – 2009.....	7
Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production:.....	7
2003 – 2009.....	7
Table 3 – Seasonally adjusted index of the total physical volume of manufacturing production: 2003 – 2009	7
Table 4a – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups.....	8
Table 4b – Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups (concluded)	9
Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2003 – 2009.....	10
Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry:	10
Table 7 – Total seasonally adjusted sales of the manufacturing industry at current prices (R'000): 2003 – 2009 .	10
Table 8a – Estimated sales of the manufacturing industry according to manufacturing divisions and major groups (R'000).....	11
Table 8b – Estimated sales of the manufacturing industry according to manufacturing divisions and major groups (R'000) (concluded)	12
Table 9 – Annual percentage change in the quarterly physical volume of manufacturing production and estimated value of sales according to manufacturing divisions and major groups: 2008 vs 2009	13
Table 10 – Annual percentage change in the cumulative physical volume of manufacturing production and estimated value of sales according to manufacturing divisions and major groups: 2008 vs 2009	14
Explanatory notes.....	15
Glossary	19
Table D – Weights according to manufacturing divisions and major groups.....	21
General information.....	22

SUMMARY OF FINDINGS: MANUFACTURING PRODUCTION AND SALES

Table A – Selected key figures regarding manufacturing production and sales for November 2009

Actual estimates	November 2009	% change between November 2008 and November 2009	% change between September to November 2008 and September to November 2009	% change between January to November 2008 and January to November 2009
Physical volume of manufacturing production index (2005=100)	109,3	-4,7	-8,6	-13,6
Total value of sales of manufactured products (R million)	108 310	-8,7	-13,7	-15,5

Seasonally adjusted estimates	November 2009	% change between October and November 2009	% change between June to August 2009 and September to November 2009
Physical volume of manufacturing production index (2005=100)	98,9	0,7	2,9
Total value of sales of manufactured products (R million)	97 931	1,5	2,8

Manufacturing production after seasonal adjustment continues to improve

The seasonally adjusted manufacturing production for the three months ended November 2009 increased by 2,9% compared with the previous three months ended August 2009, better than the 1,7% increase in the three months ended October 2009. Higher production levels were reported by five of the ten manufacturing divisions during the latest three months.

The increase was due to higher production in the basic iron and steel, non-ferrous metal products, metal products and machinery division (6,5% and contributing 1,3 percentage points), the petroleum, chemical products, rubber and plastic products division (3,5% and contributing 0,9 of a percentage point), the motor vehicles, parts and accessories and other transport equipment division (7,7% and contributing 0,7 of a percentage point), the food and beverages division (1,0% and contributing 0,2 of a percentage point) and the furniture and other manufacturing division (1,5% and contributing 0,1 of a percentage point) (see Table B).

Manufacturing production continued to fall year-on-year in November, but at a slower pace

Although the year-on-year growth rate in manufacturing production remained negative in November at -4,7% (following a revised annual rate of -9,6% in October), this was the least negative annual growth rate recorded so far in 2009 (see Table 2). November's decrease of 4,7% was mainly due to lower production in the wood and wood products, paper, publishing and printing division (-17,2% and contributing -1,9 percentage points), followed by the furniture and other manufacturing division (-15,2% and contributing -0,9 of a percentage point), the petroleum, chemical products, rubber and plastic products division (-3,1% and contributing -0,8 of a percentage point), the basic iron and steel, non-ferrous metal products, metal products and machinery division (-2,5%) and the textiles, clothing, leather and footwear division (-9,2%) (each contributing -0,5 of a percentage point) (see Table 4b).

Table B – Contribution of manufacturing divisions and major groups to the quarterly change in the seasonally adjusted manufacturing production

Base 2005=100

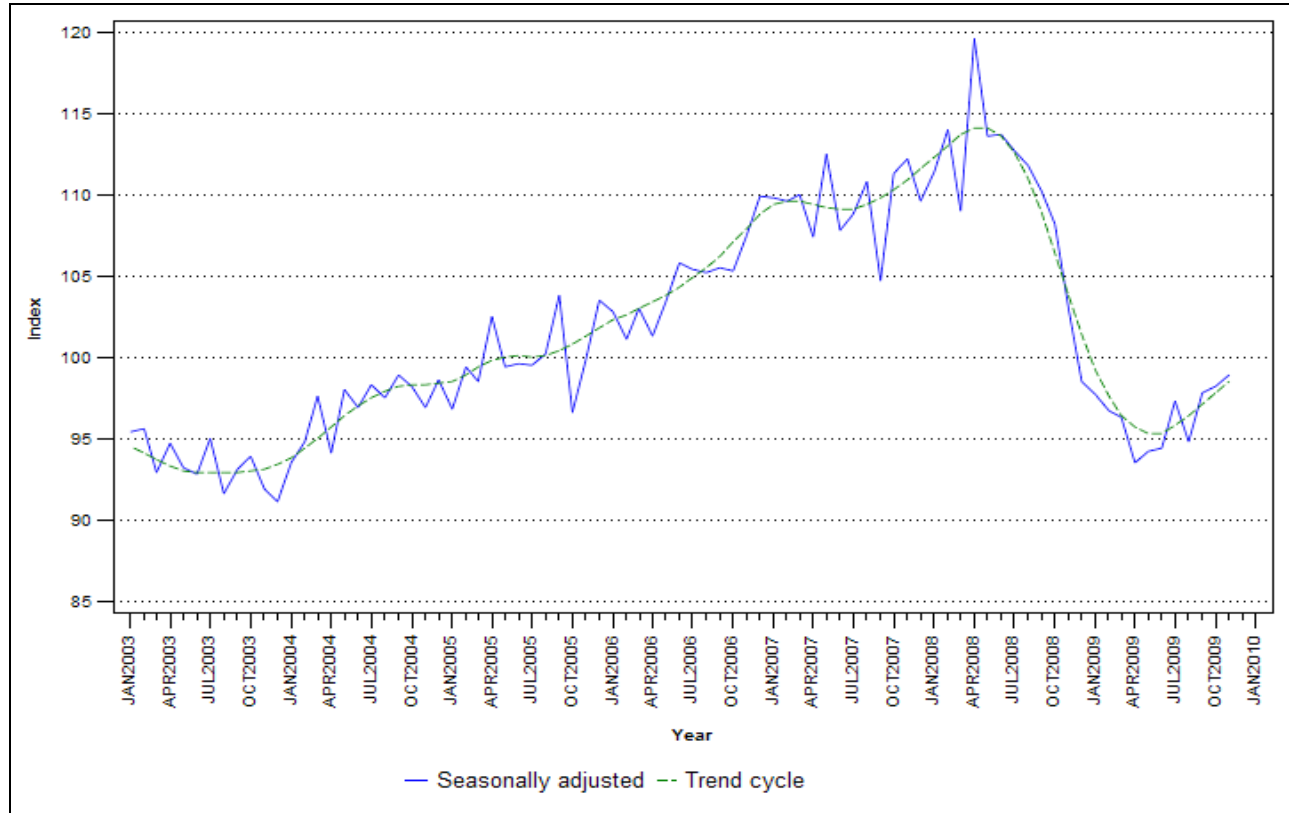
Manufacturing divisions and major groups	Percentage contribution to total manufacturing production using the weights according to large sample survey of the manufacturing industry, 2005	Average seasonally adjusted production index for June to August 2009	Average seasonally adjusted production index for September to November 2009	Quarterly percentage change of September to November 2009 compared with the preceding three months	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production <i>1/</i>
Food and beverages	15,4	112,4	113,5	1,0	0,2
-Meat, fish, fruit, etc.	1,8	107,6	114,9	6,8	0,1
-Dairy products	0,8	108,7	111,3	2,4	0,0
-Grain mill products	0,8	107,9	110,8	2,7	0,0
-Other food products	5,2	113,3	111,3	-1,8	-0,1
-Beverages	6,8	113,9	115,4	1,3	0,1
Textiles, clothing, leather and footwear	4,9	87,7	87,3	-0,5	0,0
-Textiles	1,6	73,1	72,3	-1,1	0,0
-Wearing apparel	2,3	95,6	93,5	-2,2	-0,1
-Leather and leather products	0,6	86,1	85,8	-0,3	0,0
-Footwear	0,4	103,0	112,1	8,8	0,0
Wood and wood products, paper, publishing and printing	10,2	90,0	89,2	-0,9	-0,1
-Wood and products of wood	2,0	79,1	80,4	1,6	0,0
-Paper and paper products	3,8	100,2	102,8	2,6	0,1
-Publishing and printing	4,3	85,9	81,1	-5,6	-0,2
Petroleum, chemical products, rubber and plastic products	22,1	106,0	109,7	3,5	0,9
-Coke, petroleum products and nuclear fuel	8,5	93,6	97,1	3,7	0,3
-Basic chemicals	4,5	105,7	109,3	3,4	0,2
-Other chemical products	5,3	107,7	108,6	0,8	0,0
-Rubber products	1,0	74,1	76,9	3,8	0,0
-Plastic products	2,7	152,9	163,2	6,7	0,3
Glass and non-metallic mineral products	4,8	96,2	94,7	-1,6	-0,1
-Glass and glass products	1,0	120,9	120,2	-0,6	0,0
-Non-metallic mineral products	3,8	90,0	88,3	-1,9	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	84,3	89,8	6,5	1,3
-Basic iron and steel products	7,7	72,6	86,4	19,0	1,1
-Basic precious, non-ferrous metal products	3,4	96,0	96,9	0,9	0,0
-Fabricated metal products	5,7	98,0	97,0	-1,0	-0,1
-Machinery and equipment	6,1	79,6	83,4	4,8	0,2
Electrical machinery	2,5	118,4	118,3	-0,1	0,0
Radio, television and communication apparatus and professional equipment	1,1	100,0	98,4	-1,6	0,0
-Radio, television and communication apparatus	0,4	97,6	105,9	8,5	0,0
-Professional equipment	0,7	101,6	93,6	-7,9	-0,1
Motor vehicles, parts and accessories and other transport equipment	10,9	78,9	85,0	7,7	0,7
-Motor vehicles	4,9	61,8	64,6	4,5	0,1
-Bodies for motor vehicles, trailers and semi-trailers	0,5	100,6	97,3	-3,3	0,0
-Parts and accessories	4,7	85,0	97,5	14,7	0,6
-Other transport equipment	0,9	126,8	121,5	-4,2	0,0
Furniture and other manufacturing division	5,2	90,8	92,2	1,5	0,1
-Furniture	1,3	86,7	85,2	-1,7	0,0
-Other manufacturing groups	3,9	92,1	94,6	2,7	0,1
Total	100,0	95,5	98,3	2,9	2,9

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 shows the seasonally adjusted and trend series for the volume index of manufacturing production between January 2003 and November 2009.

Figure 1 – Index of the physical volume of manufacturing production: 2003 – 2009

Base 2005=100



Seasonally adjusted sales of manufactured products increase

The estimated total value of sales of manufactured products at current prices for the three months ended November 2009 increased by 2,8% (R7 871 million), after seasonal adjustment, compared with the previous three months ended August 2009. Higher manufacturing sales were reported by six of the ten manufacturing divisions during this period (see Table C).

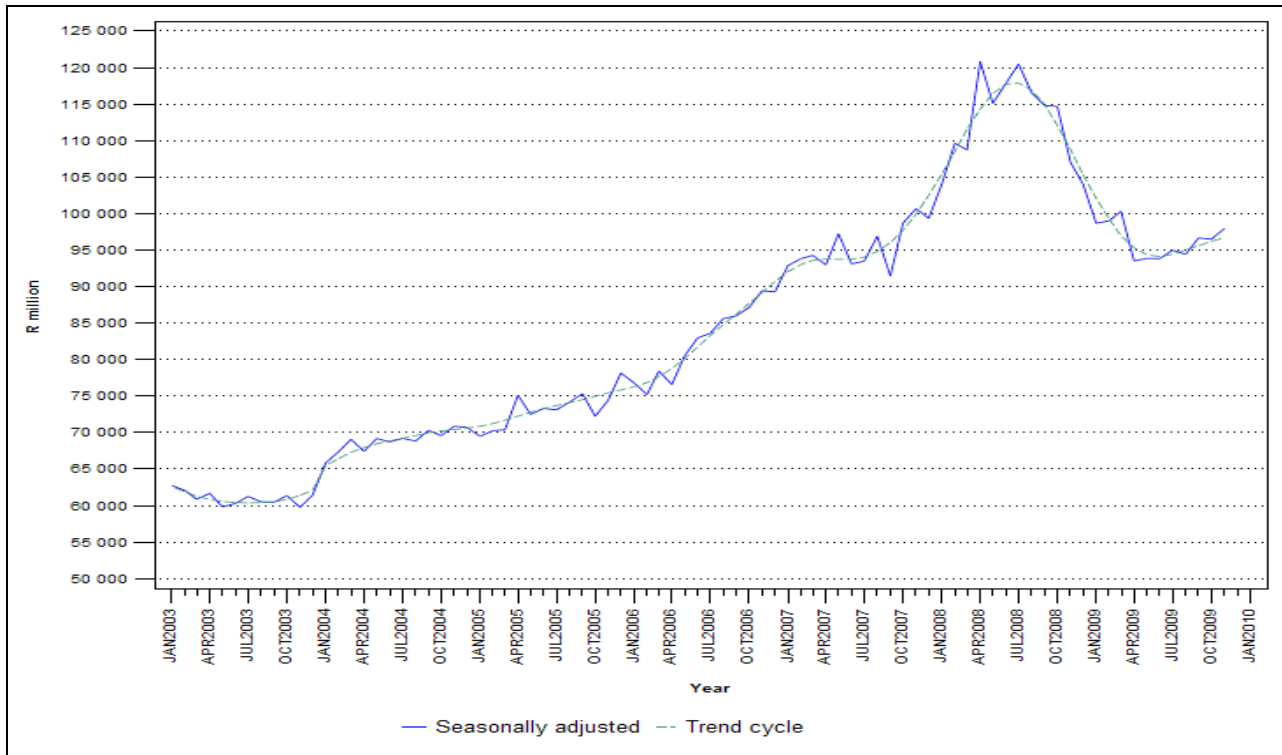
Large increases were mainly reported for the motor vehicles, parts and accessories and other transport equipment division (10,0% or R3 249 million), the basic iron and steel, non-ferrous metal products, metal products and machinery division (5,7% or R3 083 million) and the food and beverages division (2,2% or R1 333 million) during the above-mentioned period (see Table C).

Table C – Contribution of manufacturing divisions and major groups to the quarterly change in the seasonally adjusted sales of the manufacturing industry at current prices

Manufacturing divisions and major groups	Seasonally adjusted sales June to August 2009	Seasonally adjusted sales September to November 2009	Percentage change between June to August 2009 and September to November 2009	Difference in seasonally adjusted sales of manufacturing divisions between June to August 2009 and September to November 2009
	R'000	R'000	%	R'000
Food and beverages	59 488 852	60 821 674	2,2	1 332 822
-Food and food products	45 058 552	46 274 419	2,7	1 215 867
-Beverages	14 430 299	14 547 256	0,8	116 957
Textiles, clothing, leather and footwear	9 516 699	9 234 048	-3,0	-282 651
-Textiles	3 701 413	3 586 290	-3,1	-115 123
-Wearing apparel	3 945 685	3 684 684	-6,6	-261 001
-Leather and leather products	984 511	1 035 724	5,2	51 213
-Footwear	885 092	927 349	4,8	42 257
Wood and wood products, paper, publishing and printing	24 941 390	24 870 273	-0,3	-71 117
-Wood and products of wood	5 355 351	5 313 179	-0,8	-42 172
-Paper and paper products	11 058 224	11 284 218	2,0	225 994
-Publishing and printing	8 527 814	8 272 877	-3,0	-254 937
Petroleum, chemical products, rubber and plastic products	66 994 657	67 188 943	0,3	194 286
-Coke, petroleum products and nuclear fuel	24 181 834	23 532 039	-2,7	-649 795
-Basic chemicals	12 316 590	12 652 199	2,7	335 609
-Other chemical products	15 992 863	15 921 806	-0,4	-71 057
-Rubber products	3 001 801	3 102 311	3,3	100 510
-Plastic products	11 501 570	11 980 588	4,2	479 018
Glass and non-metallic mineral products	8 848 866	9 045 759	2,2	196 893
-Glass and glass products	1 599 590	1 690 776	5,7	91 186
-Non-metallic mineral products	7 249 276	7 354 982	1,5	105 706
Basic iron and steel, non-ferrous metal products, metal products and machinery	54 504 425	57 587 516	5,7	3 083 091
-Basic iron and steel products	18 800 820	20 996 926	11,7	2 196 106
-Basic precious, non-ferrous metal products	7 394 201	8 173 392	10,5	779 191
-Fabricated metal products	14 356 605	14 067 114	-2,0	-289 491
-Machinery and equipment	13 952 801	14 350 085	2,8	397 284
Electrical machinery	9 199 909	9 136 981	-0,7	-62 928
Radio, television and communication apparatus and professional equipment	3 670 339	3 467 226	-5,5	-203 113
-Radio, television and communication apparatus	1 620 449	1 636 603	1,0	16 154
-Professional equipment	2 049 890	1 830 623	-10,7	-219 267
Motor vehicles, parts and accessories and other transport equipment	32 378 219	35 627 024	10,0	3 248 805
-Motor vehicles, trailers, parts and accessories	28 257 019	31 648 703	12,0	3 391 684
-Other transport equipment	4 121 198	3 978 320	-3,5	-142 878
Furniture and other manufacturing division	13 657 713	14 093 116	3,2	435 403
-Furniture	2 718 586	2 644 673	-2,7	-73 913
-Other manufacturing groups	10 939 128	11 448 443	4,7	509 315
Total	283 201 071	291 072 560	2,8	7 871 489

Figure 2 shows the seasonally adjusted and trend series for sales of manufactured products between January 2003 and November 2009.

Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2003 – 2009



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Statistician-General

Detailed results: Tables

Table 1 – Total index of the physical volume of manufacturing production: 2003 – 2009

Base 2005 = 100

Month	2003	2004	2005	2006	2007	2008	2009
Jan	84,2	82,6	85,2	89,8	95,2	96,2	83,9
Feb	92,6	91,5	95,5	96,8	104,6	108,5	92,0
Mar	96,0	100,8	101,8	106,3	113,4	112,0	98,9
Apr	88,8	88,9	96,2	95,4	100,6	111,8	87,5
May	93,8	98,7	100,3	104,2	113,2	114,3	94,5
Jun	93,4	97,6	100,1	106,6	108,9	115,1	95,5
Jul	96,5	100,0	100,9	107,4	111,1	115,3	99,5
Aug	93,9	100,3	103,3	108,7	114,4	115,0	97,4
Sep	96,1	102,3	107,5	109,6	108,8	114,5	1/ 101,5
Oct	103,3	108,2	106,9	117,0	124,2	121,4	1/ 109,8
Nov	101,6	107,5	110,7	119,0	124,3	114,7	1/ 109,3
Dec	80,7	87,0	91,4	96,9	96,6	88,2	
Year	93,4	97,1	100,0	104,8	109,6	110,6	

1/ Preliminary.

Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2003 – 2009

Month	2003	2004	2005	2006	2007	2008	2009
Jan	1,0	-1,9	3,1	5,4	6,0	1,1	-12,8
Feb	0,8	-1,2	4,4	1,4	8,1	3,7	-15,2
Mar	0,1	5,0	1,0	4,4	6,7	-1,2	-11,7
Apr	-4,1	0,1	8,2	-0,8	5,5	11,1	-21,7
May	-4,2	5,2	1,6	3,9	8,6	1,0	-17,3
Jun	-1,5	4,5	2,6	6,5	2,2	5,7	-17,0
Jul	-0,1	3,6	0,9	6,4	3,4	3,8	-13,7
Aug	-3,7	6,8	3,0	5,2	5,2	0,5	-15,3
Sep	-3,0	6,5	5,1	2,0	-0,7	5,2	-11,4
Oct	-2,7	4,7	-1,2	9,4	6,2	-2,3	-9,6
Nov	-4,3	5,8	3,0	7,5	4,5	-7,7	-4,7
Dec	-1,6	7,8	5,1	6,0	-0,3	-8,7	
Year	-2,0	4,0	3,0	4,8	4,6	0,9	

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

Table 3 – Seasonally adjusted index of the total physical volume of manufacturing production: 2003 – 2009

Base 2005 = 100

Month	2003	2004	2005	2006	2007	2008	2009
Jan	95,4	93,5	96,8	102,8	109,8	111,4	97,7
Feb	95,6	94,8	99,4	101,1	109,6	114,0	96,7
Mar	92,9	97,6	98,5	103,0	110,0	109,0	96,3
Apr	94,7	94,1	102,5	101,3	107,4	119,6	93,5
May	93,2	98,0	99,4	103,4	112,5	113,6	94,2
Jun	92,8	96,9	99,6	105,8	107,8	113,7	94,4
Jul	95,0	98,3	99,5	105,4	108,8	112,7	97,3
Aug	91,6	97,5	100,2	105,2	110,8	111,8	94,8
Sep	93,1	98,9	103,8	105,5	104,7	110,2	97,8
Oct	93,9	98,2	96,6	105,3	111,3	108,2	98,2
Nov	91,9	96,9	99,9	107,5	112,2	103,0	98,9
Dec	91,1	98,6	103,5	109,9	109,6	98,5	

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 2008	Actual indices			Seasonally adjusted indices		
			November 2008	1/ October 2009	1/ November 2009	November 2008	October 2009	November 2009
Food and beverages	15,4	109,6	120,1	126,3	122,3	110,2	113,5	112,3
-Meat, fish, fruit, etc.	1,8	108,7	108,4	113,8	119,4	105,8	112,4	116,9
-Dairy products	0,8	110,9	117,4	127,5	116,2	110,1	114,0	109,1
-Grain mill products	0,8	108,6	113,0	111,6	116,8	109,1	109,7	112,7
-Other food products	5,2	105,3	114,8	133,4	121,7	102,7	112,4	109,3
-Beverages	6,8	113,1	128,3	125,8	124,8	117,1	115,2	113,7
Textiles, clothing, leather and footwear	4,9	104,8	116,9	104,1	106,2	98,6	88,4	89,4
-Textiles	0,7	90,5	96,4	75,1	74,4	86,9	67,2	67,0
-Other textile products	0,9	99,6	107,8	89,5	89,2	89,1	75,1	74,0
-Knitted, crocheted articles	0,2	112,1	121,7	117,4	112,7	108,2	101,5	100,0
-Wearing apparel	2,1	110,5	131,5	112,9	122,3	106,6	96,1	98,8
-Leather and leather products	0,6	101,3	92,1	96,5	94,0	86,7	87,5	88,3
-Footwear	0,4	111,6	130,4	143,2	127,5	111,2	108,7	108,4
Wood and wood products, paper, publishing and printing	10,2	108,3	121,6	99,6	100,7	105,4	89,5	87,2
-Sawmilling and planing of wood	0,7	95,7	100,4	80,5	72,8	89,6	71,9	65,0
-Products of wood	1,3	103,5	114,2	94,9	98,1	98,3	83,6	84,6
-Paper and paper products	3,8	121,8	131,0	112,4	109,8	118,3	105,3	99,1
-Publishing	1,9	105,9	119,8	86,9	93,9	102,3	78,8	79,9
-Printing, recorded media	2,5	95,5	118,2	97,4	101,0	95,9	81,0	81,9
Petroleum, chemical products, rubber and plastic products	22,1	117,9	124,0	121,8	120,1	112,4	111,1	109,3
-Coke, petroleum products and nuclear fuel	8,5	95,8	87,8	99,9	100,6	87,6	97,8	100,1
-Basic chemicals	4,5	152,5	164,5	134,6	115,5	144,4	115,4	101,4
-Other chemical products	5,3	119,2	136,7	121,9	125,8	118,8	107,9	109,1
-Rubber products	1,0	91,0	94,3	84,5	84,6	85,2	77,5	76,3
-Plastic products	2,7	137,3	155,7	182,6	190,2	133,5	164,0	163,2
Glass and non-metallic mineral products	4,8	110,4	119,6	101,5	110,5	105,8	90,1	97,8
-Glass and glass products	1,0	123,1	165,2	139,3	153,0	134,3	121,6	124,1
-Non-metallic mineral products	3,8	107,2	108,2	92,0	99,9	98,7	82,2	91,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	105,6	100,1	96,8	97,6	93,3	88,2	92,7
-Basic iron and steel products	7,7	94,8	64,4	90,9	90,6	67,0	84,0	95,1
-Non-ferrous metal products	3,4	102,8	100,6	100,2	100,1	97,7	95,4	97,2
-Structural metal products	2,0	124,2	136,2	102,7	104,2	118,2	90,5	90,4
-Other fabricated metal products	3,8	125,8	143,5	109,3	118,2	124,7	96,3	102,7
-General purpose machinery	2,4	93,4	95,2	79,9	82,7	84,5	71,3	73,3
-Special purpose machinery	3,1	108,8	111,8	100,7	92,9	104,4	91,6	86,9
-Household appliances	0,6	104,4	121,9	103,6	103,9	104,1	90,2	88,8
Electrical machinery	2,5	124,9	136,2	130,6	126,1	123,6	116,2	115,2
Radio, television and communication apparatus and professional equipment	1,1	106,0	115,8	103,3	102,6	103,2	96,6	91,4
-Radio, television and communication apparatus	0,4	117,6	128,3	109,8	103,6	110,7	101,2	89,1
-Professional equipment	0,7	98,6	107,8	99,2	102,0	98,4	93,7	92,8
Motor vehicles, parts and accessories and other transport equipment	10,9	105,8	96,9	102,0	98,7	84,7	85,5	87,7
-Motor vehicles	4,9	99,7	99,4	85,6	82,0	81,6	65,8	67,1
-Bodies for motor vehicles, trailers and semi-trailers	0,5	151,1	156,9	116,8	118,3	132,1	97,8	99,6
-Parts and accessories	4,7	105,4	81,0	113,4	106,8	75,4	98,0	100,2
-Other transport equipment	0,9	116,9	133,5	123,3	135,8	124,2	119,2	126,1
Furniture and other manufacturing division	5,2	118,2	129,3	108,3	109,7	109,2	93,8	92,9
-Furniture	1,3	106,3	140,5	108,1	113,8	104,5	84,0	84,2
-Other manufacturing groups	3,9	122,2	125,5	108,3	108,3	110,8	97,2	95,8
Total	100,0	110,6	114,7	109,8	109,3	103,0	98,2	98,9

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 2008	Actual indices			Seasonally adjusted indices		
			November 2008	1/ November 2009	Percentage change between November 2008 and November 2009	October 2009	November 2009	Percentage change between October and November 2009
Food and beverages	15,4	109,6	120,1	122,3	1,8	113,5	112,3	-1,1
-Meat, fish, fruit, etc.	1,8	108,7	108,4	119,4	10,1	112,4	116,9	4,0
-Dairy products	0,8	110,9	117,4	116,2	-1,0	114,0	109,1	-4,3
-Grain mill products	0,8	108,6	113,0	116,8	3,4	109,7	112,7	2,7
-Other food products	5,2	105,3	114,8	121,7	6,0	112,4	109,3	-2,8
-Beverages	6,8	113,1	128,3	124,8	-2,7	115,2	113,7	-1,3
Textiles, clothing, leather and footwear	4,9	104,8	116,9	106,2	-9,2	88,4	89,4	1,1
-Textiles	0,7	90,5	96,4	74,4	-22,8	67,2	67,0	-0,3
-Other textile products	0,9	99,6	107,8	89,2	-17,3	75,1	74,0	-1,5
-Knitted, crocheted articles	0,2	112,1	121,7	112,7	-7,4	101,5	100,0	-1,5
-Wearing apparel	2,1	110,5	131,5	122,3	-7,0	96,1	98,8	2,8
-Leather and leather products	0,6	101,3	92,1	94,0	2,1	87,5	88,3	0,9
-Footwear	0,4	111,6	130,4	127,5	-2,2	108,7	108,4	-0,3
Wood and wood products, paper, publishing and printing	10,2	108,3	121,6	100,7	-17,2	89,5	87,2	-2,6
-Sawmilling and planing of wood	0,7	95,7	100,4	72,8	-27,5	71,9	65,0	-9,6
-Products of wood	1,3	103,5	114,2	98,1	-14,1	83,6	84,6	1,2
-Paper and paper products	3,8	121,8	131,0	109,8	-16,2	105,3	99,1	-5,9
-Publishing	1,9	105,9	119,8	93,9	-21,6	78,8	79,9	1,4
-Printing, recorded media	2,5	95,5	118,2	101,0	-14,6	81,0	81,9	1,1
Petroleum, chemical products, rubber and plastic products	22,1	117,9	124,0	120,1	-3,1	111,1	109,3	-1,6
-Coke, petroleum products and nuclear fuel	8,5	95,8	87,8	100,6	14,6	97,8	100,1	2,4
-Basic chemicals	4,5	152,5	164,5	115,5	-29,8	115,4	101,4	-12,1
-Other chemical products	5,3	119,2	136,7	125,8	-8,0	107,9	109,1	1,1
-Rubber products	1,0	91,0	94,3	84,6	-10,3	77,5	76,3	-1,5
-Plastic products	2,7	137,3	155,7	190,2	22,2	164,0	163,2	-0,5
Glass and non-metallic mineral products	4,8	110,4	119,6	110,5	-7,6	90,1	97,8	8,5
-Glass and glass products	1,0	123,1	165,2	153,0	-7,4	121,6	124,1	2,1
-Non-metallic mineral products	3,8	107,2	108,2	99,9	-7,7	82,2	91,2	10,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	105,6	100,1	97,6	-2,5	88,2	92,7	5,1
-Basic iron and steel products	7,7	94,8	64,4	90,6	40,7	84,0	95,1	13,2
-Non-ferrous metal products	3,4	102,8	100,6	100,1	-0,5	95,4	97,2	1,9
-Structural metal products	2,0	124,2	136,2	104,2	-23,5	90,5	90,4	-0,1
-Other fabricated metal products	3,8	125,8	143,5	118,2	-17,6	96,3	102,7	6,6
-General purpose machinery	2,4	93,4	95,2	82,7	-13,1	71,3	73,3	2,8
-Special purpose machinery	3,1	108,8	111,8	92,9	-16,9	91,6	86,9	-5,1
-Household appliances	0,6	104,4	121,9	103,9	-14,8	90,2	88,8	-1,6
Electrical machinery	2,5	124,9	136,2	126,1	-7,4	116,2	115,2	-0,9
Radio, television and communication apparatus and professional equipment	1,1	106,0	115,8	102,6	-11,4	96,6	91,4	-5,4
-Radio, television and communication apparatus	0,4	117,6	128,3	103,6	-19,3	101,2	89,1	-12,0
-Professional equipment	0,7	98,6	107,8	102,0	-5,4	93,7	92,8	-1,0
Motor vehicles, parts and accessories and other transport equipment	10,9	105,8	96,9	98,7	1,9	85,5	87,7	2,6
-Motor vehicles	4,9	99,7	99,4	82,0	-17,5	65,8	67,1	2,0
-Bodies for motor vehicles, trailers and semi-trailers	0,5	151,1	156,9	118,3	-24,6	97,8	99,6	1,8
-Parts and accessories	4,7	105,4	81,0	106,8	31,9	98,0	100,2	2,2
-Other transport equipment	0,9	116,9	133,5	135,8	1,7	119,2	126,1	5,8
Furniture and other manufacturing division	5,2	118,2	129,3	109,7	-15,2	93,8	92,9	-1,0
-Furniture	1,3	106,3	140,5	113,8	-19,0	84,0	84,2	0,2
-Other manufacturing groups	3,9	122,2	125,5	108,3	-13,7	97,2	95,8	-1,4
Total	100,0	110,6	114,7	109,3	-4,7	98,2	98,9	0,7

1/ Preliminary.

Table 5 – Total estimated sales of the manufacturing industry at current prices (R'000): 2003 – 2009

Month	2003	2004	2005	2006	2007	2008	2009
Jan	55 009 733	55 702 288	58 705 257	64 904 290	78 599 468	88 223 092	83 315 861
Feb	62 776 744	65 027 262	67 592 645	72 163 648	89 769 884	104 338 982	94 452 035
Mar	65 353 365	70 936 530	72 099 488	80 114 612	96 207 130	110 254 490	101 729 244
Apr	61 106 613	63 759 248	70 718 822	71 780 033	86 839 371	112 640 753	87 148 078
May	62 771 090	69 557 193	72 750 078	80 692 987	97 573 896	115 671 466	93 686 610
Jun	63 469 656	69 338 797	74 062 607	84 011 510	94 620 631	120 138 492	95 271 113
Jul	63 959 307	69 855 977	74 136 551	85 136 537	95 460 248	123 799 542	97 023 688
Aug	63 943 780	70 632 321	76 550 034	88 805 047	100 791 378	121 886 864	98 084 036
Sep	65 542 853	73 800 845	79 380 270	90 800 328	96 560 089	121 355 165	1/ 101 809 619
Oct	70 264 798	76 370 559	79 431 755	96 059 766	109 274 819	127 291 387	1/ 107 018 897
Nov	68 981 595	78 717 134	82 992 688	99 301 579	111 717 168	118 691 642	1/ 108 310 292
Dec	58 390 098	64 304 382	70 482 179	79 607 355	88 372 560	93 232 454	
Year	761 569 632	828 002 536	878 902 374	993 377 692	1 145 786 642	1 357 524 329	

1/ Preliminary.

Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2003 – 2009

Month	2003	2004	2005	2006	2007	2008	2009
Jan	9,9	1,3	5,4	10,6	21,1	12,2	-5,6
Feb	7,1	3,6	3,9	6,8	24,4	16,2	-9,5
Mar	4,6	8,5	1,6	11,1	20,1	14,6	-7,7
Apr	-2,7	4,3	10,9	1,5	21,0	29,7	-22,6
May	-3,6	10,8	4,6	10,9	20,9	18,5	-19,0
Jun	-0,2	9,2	6,8	13,4	12,6	27,0	-20,7
Jul	-2,3	9,2	6,1	14,8	12,1	29,7	-21,6
Aug	-4,4	10,5	8,4	16,0	13,5	20,9	-19,5
Sep	-5,5	12,6	7,6	14,4	6,3	25,7	-16,1
Oct	-4,8	8,7	4,0	20,9	13,8	16,5	-15,9
Nov	-7,1	14,1	5,4	19,7	12,5	6,2	-8,7
Dec	-1,8	10,1	9,6	12,9	11,0	5,5	
Year	-1,3	8,7	6,1	13,0	15,3	18,5	

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

Table 7 – Total seasonally adjusted sales of the manufacturing industry at current prices (R'000): 2003 – 2009

Month	2003	2004	2005	2006	2007	2008	2009
Jan	65 246 721	65 844 496	69 488 595	76 812 078	92 865 741	104 016 443	98 659 054
Feb	64 778 597	67 386 056	70 259 865	75 208 595	93 821 743	109 621 767	99 005 227
Mar	63 300 619	69 064 787	70 370 658	78 423 455	94 272 540	108 713 855	100 304 397
Apr	64 705 478	67 410 354	75 092 068	76 575 892	92 966 708	120 856 797	93 503 120
May	62 361 870	69 177 703	72 479 393	80 504 415	97 231 945	115 086 350	93 859 320
Jun	62 790 287	68 713 868	73 310 343	82 955 540	93 101 380	117 827 231	93 823 605
Jul	63 675 973	69 195 586	73 106 150	83 602 920	93 471 626	120 486 220	94 974 787
Aug	62 643 139	68 827 655	74 161 398	85 608 509	96 882 130	116 535 047	94 402 679
Sep	62 683 302	70 298 181	75 324 053	85 993 226	91 444 816	114 789 154	96 663 402
Oct	64 021 391	69 570 067	72 218 878	87 125 988	98 683 191	114 673 082	96 478 657
Nov	62 073 042	70 867 625	74 435 741	89 432 215	100 672 890	107 033 310	97 930 501
Dec	63 947 548	70 693 236	78 147 109	89 248 353	99 334 334	104 012 262	

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

Manufacturing divisions and major groups	Year 2008	Actual values			Seasonally adjusted values		
		November 2008	1/ October 2009	1/ November 2009	November 2008	October 2009	November 2009
Food and beverages	230 362 367	21 714 530	21 834 612	21 954 942	19 920 073	20 192 568	20 142 019
-Meat, fish, fruit, etc.	60 082 160	5 462 909	5 568 561	5 868 178	5 124 200	5 213 968	5 515 295
-Dairy products	19 901 003	1 791 745	1 971 316	1 785 771	1 676 298	1 789 543	1 672 103
-Grain mill products	46 998 257	4 315 666	3 842 254	3 905 990	4 078 796	3 682 216	3 694 342
-Other food products	49 553 173	5 018 991	5 305 696	5 126 623	4 380 174	4 713 633	4 469 060
-Beverages	53 827 774	5 125 219	5 146 785	5 268 380	4 660 604	4 793 208	4 791 219
Textiles, clothing, leather and footwear	43 745 997	4 233 856	3 654 349	3 731 319	3 486 448	3 115 601	3 076 897
-Textiles	6 481 096	612 101	490 634	483 503	535 215	434 972	422 184
-Other textile products	11 665 428	1 081 099	896 133	896 380	897 242	764 734	747 303
-Knitted, crocheted articles	1 768 896	156 337	150 898	144 059	138 793	133 410	127 816
-Wearing apparel	15 973 282	1 639 316	1 326 598	1 416 256	1 290 753	1 131 496	1 116 151
-Leather and leather products	4 318 960	337 681	385 478	374 728	319 221	340 426	353 256
-Footwear	3 538 335	407 322	404 608	416 393	305 223	310 562	310 188
Wood and wood products, paper, publishing and printing	110 137 969	10 664 746	9 150 701	9 283 791	9 354 216	8 223 509	8 132 451
-Sawmilling and planing of wood	7 896 405	699 792	606 932	566 022	620 978	526 491	502 009
-Products of wood	17 742 096	1 656 029	1 397 790	1 433 102	1 420 316	1 212 892	1 232 312
-Paper and paper products	48 951 809	4 633 205	4 021 734	3 952 447	4 233 637	3 778 130	3 614 651
-Publishing	14 592 803	1 432 141	1 131 872	1 218 110	1 232 351	1 027 230	1 045 546
-Printing, recorded media	20 954 856	2 243 579	1 992 373	2 114 110	1 846 935	1 678 766	1 737 933
Petroleum, chemical products, rubber and plastic products	316 559 125	28 003 369	24 612 982	25 039 065	25 225 169	22 327 695	22 514 368
-Coke, petroleum products and nuclear fuel	125 107 924	9 292 571	8 217 195	7 953 985	9 126 295	7 931 894	7 834 737
-Basic chemicals	74 181 951	6 954 993	4 800 793	4 924 600	6 050 329	4 154 075	4 301 889
-Other chemical products	64 081 392	6 389 514	5 928 322	6 240 431	5 478 282	5 216 665	5 343 893
-Rubber products	13 079 823	1 220 610	1 126 834	1 139 451	1 083 273	1 048 528	1 009 683
-Plastic products	40 108 035	4 145 681	4 539 838	4 780 598	3 486 991	3 976 533	4 024 166
Glass and non-metallic mineral products	37 229 204	3 485 734	3 407 137	3 571 100	2 990 894	2 976 743	3 053 674
-Glass and glass products	6 211 863	706 279	673 913	765 090	548 445	567 114	591 948
-Non-metallic mineral products	31 017 341	2 779 455	2 733 224	2 806 010	2 442 449	2 409 629	2 461 726
Basic iron and steel, non-ferrous metal products, metal products and machinery	310 428 978	25 197 195	21 292 538	20 699 148	23 376 582	19 069 440	19 294 120
-Basic iron and steel products	131 486 550	8 381 680	7 685 547	6 942 302	8 475 134	6 964 749	7 094 931
-Non-ferrous metal products	43 379 771	4 000 897	2 976 268	3 158 279	3 572 549	2 682 487	2 815 935
-Structural metal products	26 244 171	2 498 883	1 875 883	1 822 738	2 174 314	1 618 942	1 584 891
-Other fabricated metal products	42 385 944	4 295 162	3 454 861	3 579 686	3 690 613	3 071 223	3 074 650
-General purpose machinery	26 166 605	2 391 188	2 057 671	2 112 007	2 155 697	1 844 642	1 907 471
-Special purpose machinery	30 901 023	2 662 803	2 388 214	2 242 126	2 484 372	2 155 680	2 097 728
-Household appliances	9 864 914	966 582	854 094	842 010	823 903	731 716	718 516
Electrical machinery	41 188 668	3 625 419	3 333 278	3 231 517	3 317 372	3 043 135	2 980 069
Radio, television and communication apparatus and professional equipment	14 956 319	1 362 139	1 228 602	1 206 703	1 226 007	1 152 346	1 091 614
-Radio, television and communication apparatus	7 503 117	704 510	564 113	580 346	611 584	521 216	505 320
-Professional equipment	7 453 202	657 629	664 489	626 357	614 423	631 130	586 294
Motor vehicles, parts and accessories and other transport equipment	192 164 112	15 237 395	13 493 307	14 428 990	13 567 086	11 731 630	12 869 155
-Motor vehicles	96 884 183	8 283 061	6 673 373	7 621 967	7 214 084	5 644 188	6 620 285
-Bodies for motor vehicles, trailers and semi-trailers	8 625 818	739 452	609 044	615 559	624 899	510 573	522 940
-Parts and accessories	71 341 166	4 696 348	4 860 271	4 702 958	4 320 765	4 278 845	4 348 010
-Other transport equipment	15 312 945	1 518 534	1 350 619	1 488 506	1 407 339	1 298 024	1 377 920
Furniture and other manufacturing division	60 751 590	5 167 259	5 011 391	5 163 717	4 569 461	4 645 990	4 776 133
-Furniture	12 491 467	1 419 480	1 133 387	1 195 355	1 041 442	867 988	872 572
-Other manufacturing groups	48 260 123	3 747 779	3 878 004	3 968 362	3 528 019	3 778 002	3 903 560
Total	1 357 524 329	118 691 642	107 018 897	108 310 292	107 033 310	96 478 657	97 930 501

1/ Preliminary.

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

Manufacturing divisions and major groups	Year 2008	Actual values			Seasonally adjusted values		
		November 2008	1/ November 2009	Percentage change between November 2008 and November 2009	October 2009	November 2009	Percentage change between October and November 2009
Food and beverages	230 362 367	21 714 530	21 954 942	1,1	20 192 568	20 142 019	-0,3
-Meat, fish, fruit, etc.	60 082 160	5 462 909	5 868 178	7,4	5 213 968	5 515 295	5,8
-Dairy products	19 901 003	1 791 745	1 785 771	-0,3	1 789 543	1 672 103	-6,6
-Grain mill products	46 998 257	4 315 666	3 905 990	-9,5	3 682 216	3 694 342	0,3
-Other food products	49 553 173	5 018 991	5 126 623	2,1	4 713 633	4 469 060	-5,2
-Beverages	53 827 774	5 125 219	5 268 380	2,8	4 793 208	4 791 219	0,0
Textiles, clothing, leather and footwear	43 745 997	4 233 856	3 731 319	-11,9	3 115 601	3 076 897	-1,2
-Textiles	6 481 096	612 101	483 503	-21,0	434 972	422 184	-2,9
-Other textile products	11 665 428	1 081 099	896 380	-17,1	764 734	747 303	-2,3
-Knitted, crocheted articles	1 768 896	156 337	144 059	-7,9	133 410	127 816	-4,2
-Wearing apparel	15 973 282	1 639 316	1 416 256	-13,6	1 131 496	1 116 151	-1,4
-Leather and leather products	4 318 960	337 681	374 728	11,0	340 426	353 256	3,8
-Footwear	3 538 335	407 322	416 393	2,2	310 562	310 188	-0,1
Wood and wood products, paper, publishing and printing	110 137 969	10 664 746	9 283 791	-12,9	8 223 509	8 132 451	-1,1
-Sawmilling and planing of wood	7 896 405	699 792	566 022	-19,1	526 491	502 009	-4,7
-Products of wood	17 742 096	1 656 029	1 433 102	-13,5	1 212 892	1 232 312	1,6
-Paper and paper products	48 951 809	4 633 205	3 952 447	-14,7	3 778 130	3 614 651	-4,3
-Publishing	14 592 803	1 432 141	1 218 110	-14,9	1 027 230	1 045 546	1,8
-Printing, recorded media	20 954 856	2 243 579	2 114 110	-5,8	1 678 766	1 737 933	3,5
Petroleum, chemical products, rubber and plastic products	316 559 125	28 003 369	25 039 065	-10,6	22 327 695	22 514 368	0,8
-Coke, petroleum products and nuclear fuel	125 107 924	9 292 571	7 953 985	-14,4	7 931 894	7 834 737	-1,2
-Basic chemicals	74 181 951	6 954 993	4 924 600	-29,2	4 154 075	4 301 889	3,6
-Other chemical products	64 081 392	6 389 514	6 240 431	-2,3	5 216 665	5 343 893	2,4
-Rubber products	13 079 823	1 220 610	1 139 451	-6,6	1 048 528	1 009 683	-3,7
-Plastic products	40 108 035	4 145 681	4 780 598	15,3	3 976 533	4 024 166	1,2
Glass and non-metallic mineral products	37 229 204	3 485 734	3 571 100	2,4	2 976 743	3 053 674	2,6
-Glass and glass products	6 211 863	706 279	765 090	8,3	567 114	591 948	4,4
-Non-metallic mineral products	31 017 341	2 779 455	2 806 010	1,0	2 409 629	2 461 726	2,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	310 428 978	25 197 195	20 699 148	-17,9	19 069 440	19 294 120	1,2
-Basic iron and steel products	131 486 550	8 381 680	6 942 302	-17,2	6 964 749	7 094 931	1,9
-Non-ferrous metal products	43 379 771	4 000 897	3 158 279	-21,1	2 682 487	2 815 935	5,0
-Structural metal products	26 244 171	2 498 883	1 822 738	-27,1	1 618 942	1 584 891	-2,1
-Other fabricated metal products	42 385 944	4 295 162	3 579 686	-16,7	3 071 223	3 074 650	0,1
-General purpose machinery	26 166 605	2 391 188	2 112 007	-11,7	1 844 642	1 907 471	3,4
-Special purpose machinery	30 901 023	2 662 803	2 242 126	-15,8	2 155 680	2 097 728	-2,7
-Household appliances	9 864 914	966 582	842 010	-12,9	731 716	718 516	-1,8
Electrical machinery	41 188 668	3 625 419	3 231 517	-10,9	3 043 135	2 980 069	-2,1
Radio, television and communication apparatus and professional equipment	14 956 319	1 362 139	1 206 703	-11,4	1 152 346	1 091 614	-5,3
-Radio, television and communication apparatus	7 503 117	704 510	580 346	-17,6	521 216	505 320	-3,0
-Professional equipment	7 453 202	657 629	626 357	-4,8	631 130	586 294	-7,1
Motor vehicles, parts and accessories and other transport equipment	192 164 112	15 237 395	14 428 990	-5,3	11 731 630	12 869 155	9,7
-Motor vehicles	96 884 183	8 283 061	7 621 967	-8,0	5 644 188	6 620 285	17,3
-Bodies for motor vehicles, trailers and semi-trailers	8 625 818	739 452	615 559	-16,8	510 573	522 940	2,4
-Parts and accessories	71 341 166	4 696 348	4 702 958	0,1	4 278 845	4 348 010	1,6
-Other transport equipment	15 312 945	1 518 534	1 488 506	-2,0	1 298 024	1 377 920	6,2
Furniture and other manufacturing division	60 751 590	5 167 259	5 163 717	-0,1	4 645 990	4 776 133	2,8
-Furniture	12 491 467	1 419 480	1 195 355	-15,8	867 988	872 572	0,5
-Other manufacturing groups	48 260 123	3 747 779	3 968 362	5,9	3 778 002	3 903 560	3,3
Total	1 357 524 329	118 691 642	108 310 292	-8,7	96 478 657	97 930 501	1,5

1/ Preliminary.

Table 9 – Annual percentage change in the quarterly physical volume of manufacturing production and estimated value of sales according to manufacturing divisions and major groups: 2008 vs 2009

Manufacturing divisions and major groups	Weights 2005	Production indices (base 2005=100)			Value of sales (R'000)		
		September to November 2008	September to November 2009	Annual percentage change between September to November 2008 and September to November 2009	September to November 2008	September to November 2009	Annual percentage change between September to November 2008 and September to November 2009
Food and beverages	15,4	119,8	122,8	2,5	63 445 086	64 524 445	1,7
-Meat, fish, fruit, etc.	1,8	109,7	116,0	5,7	16 346 002	16 869 101	3,2
-Dairy products	0,8	118,8	119,3	0,4	5 368 111	5 516 750	2,8
-Grain mill products	0,8	111,8	113,5	1,5	12 789 513	11 527 803	-9,9
-Other food products	5,2	118,9	126,4	6,3	14 114 586	15 177 656	7,5
-Beverages	6,8	124,2	123,4	-0,6	14 826 874	15 433 135	4,1
Textiles, clothing, leather and footwear	4,9	115,0	99,6	-13,4	12 228 404	10 533 571	-13,9
-Textiles	0,7	96,1	73,3	-23,7	1 818 988	1 424 369	-21,7
-Other textile products	0,9	105,5	86,0	-18,5	3 128 194	2 561 320	-18,1
-Knitted, crocheted articles	0,2	121,0	105,8	-12,6	463 230	404 920	-12,6
-Wearing apparel	2,1	125,9	108,7	-13,7	4 593 301	3 866 049	-15,8
-Leather and leather products	0,6	96,0	90,5	-5,7	1 078 217	1 110 696	3,0
-Footwear	0,4	136,8	135,8	-0,7	1 146 474	1 166 217	1,7
Wood and wood products, paper, publishing and printing	10,2	119,5	98,8	-17,3	31 477 706	27 557 430	-12,5
-Sawmilling and planing of wood	0,7	100,3	78,6	-21,6	2 132 337	1 736 465	-18,6
-Products of wood	1,3	113,0	95,5	-15,5	4 987 650	4 251 217	-14,8
-Paper and paper products	3,8	131,9	111,3	-15,6	13 948 667	12 259 602	-12,1
-Publishing	1,9	115,7	88,4	-23,6	4 106 079	3 447 407	-16,0
-Printing, recorded media	2,5	112,0	94,7	-15,4	6 302 973	5 862 739	-7,0
Petroleum, chemical products, rubber and plastic products	22,1	123,5	116,5	-5,7	87 555 769	73 348 072	-16,2
-Coke, petroleum products and nuclear fuel	8,5	86,5	94,5	9,2	30 565 170	24 388 134	-20,2
-Basic chemicals	4,5	170,5	121,7	-28,6	22 801 394	14 317 038	-37,2
-Other chemical products	5,3	134,3	120,4	-10,3	18 730 930	17 746 804	-5,3
-Rubber products	1,0	93,4	83,3	-10,8	3 561 425	3 338 554	-6,3
-Plastic products	2,7	151,0	181,4	20,1	11 896 850	13 557 542	14,0
Glass and non-metallic mineral products	4,8	119,9	104,6	-12,8	10 575 589	10 228 773	-3,3
-Glass and glass products	1,0	149,7	137,3	-8,3	1 963 929	2 028 117	3,3
-Non-metallic mineral products	3,8	112,4	96,5	-14,1	8 611 660	8 200 656	-4,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	106,0	95,7	-9,7	82 131 694	62 556 069	-23,8
-Basic iron and steel products	7,7	84,2	89,2	5,9	32 287 857	22 276 881	-31,0
-Non-ferrous metal products	3,4	102,3	99,4	-2,8	11 903 320	8 902 933	-25,2
-Structural metal products	2,0	132,5	100,8	-23,9	7 408 570	5 394 490	-27,2
-Other fabricated metal products	3,8	139,5	111,1	-20,4	12 371 979	10 345 271	-16,4
-General purpose machinery	2,4	94,5	80,3	-15,0	7 116 836	6 167 566	-13,3
-Special purpose machinery	3,1	113,0	96,8	-14,3	8 236 714	6 997 479	-15,0
-Household appliances	0,6	117,3	100,1	-14,7	2 806 418	2 471 449	-11,9
Electrical machinery	2,5	139,9	129,9	-7,1	11 252 606	9 968 301	-11,4
Radio, television and communication apparatus and professional equipment	1,1	115,5	107,0	-7,4	4 088 078	3 764 443	-7,9
-Radio, television and communication apparatus	0,4	127,0	115,9	-8,7	2 071 504	1 813 948	-12,4
-Professional equipment	0,7	108,2	101,4	-6,3	2 016 574	1 950 495	-3,3
Motor vehicles, parts and accessories and other transport equipment	10,9	107,3	95,0	-11,5	48 467 521	39 473 951	-18,6
-Motor vehicles	4,9	108,5	76,1	-29,9	25 461 814	19 829 546	-22,1
-Bodies for motor vehicles, trailers and semi-trailers	0,5	171,6	113,8	-33,7	2 439 203	1 791 492	-26,6
-Parts and accessories	4,7	97,3	107,2	10,2	16 454 557	13 808 306	-16,1
-Other transport equipment	0,9	119,5	122,9	2,8	4 111 947	4 044 607	-1,6
Furniture and other manufacturing division	5,2	130,3	106,1	-18,6	16 115 741	15 183 753	-5,8
-Furniture	1,3	128,3	104,9	-18,2	3 894 300	3 292 648	-15,4
-Other manufacturing groups	3,9	130,9	106,5	-18,6	12 221 441	11 891 105	-2,7
Total	100,0	116,9	106,9	-8,6	367 338 194	317 138 808	-13,7

Table 10 – Annual percentage change in the cumulative physical volume of manufacturing production and estimated value of sales according to manufacturing divisions and major groups: 2008 vs 2009

Manufacturing divisions and major groups	Weights 2005	Production indices (base 2005=100)				Value of sales (R million)			
		Jan. to Nov. 2008	Jan. to Nov. 2009	Annual percentage change between 2008 and 2009	Contribution (percentage points)	Jan. to Nov. 2008	Jan. to Nov. 2009	Annual percentage change between 2008 and 2009	Difference in sales between 2008 and 2009
Food and beverages	15,4	108,7	110,3	1,5	0,2	207 936	217 190	4,5	9 254
-Meat, fish, fruit, etc.	1,8	108,6	108,0	-0,6	0,0	54 473	57 449	5,5	2 976
-Dairy products	0,8	109,6	108,4	-1,1	0,0	17 997	18 522	2,9	525
-Grain mill products	0,8	108,2	108,1	-0,1	0,0	42 726	41 664	-2,5	-1 062
-Other food products	5,2	107,0	111,9	4,6	0,2	45 373	49 414	8,9	4 041
-Beverages	6,8	109,9	110,2	0,3	0,0	47 368	50 141	5,9	2 773
Textiles, clothing, leather and footwear	4,9	107,2	91,6	-14,6	-0,7	40 829	35 781	-12,4	-5 048
-Textiles	0,7	93,6	76,1	-18,7	-0,1	6 098	5 426	-11,0	-672
-Other textile products	0,9	102,1	79,8	-21,8	-0,2	10 933	8 740	-20,1	-2 193
-Knitted, crocheted articles	0,2	115,1	107,3	-6,8	0,0	1 657	1 537	-7,2	-120
-Wearing apparel	2,1	112,2	99,0	-11,8	-0,2	14 796	13 157	-11,1	-1 639
-Leather and leather products	0,6	104,7	83,4	-20,3	-0,1	4 078	3 592	-11,9	-486
-Footwear	0,4	114,6	110,2	-3,8	0,0	3 266	3 328	1,9	62
Wood and wood products, paper, publishing and printing	10,2	109,5	93,1	-15,0	-1,5	101 875	94 109	-7,6	-7 766
-Sawmilling and planing of wood	0,7	98,7	75,0	-24,0	-0,1	7 480	5 928	-20,7	-1 552
-Products of wood	1,3	106,0	89,9	-15,2	-0,2	16 595	14 669	-11,6	-1 926
-Paper and paper products	3,8	122,2	104,7	-14,3	-0,6	44 976	42 091	-6,4	-2 885
-Publishing	1,9	107,1	87,9	-17,9	-0,3	13 473	12 342	-8,4	-1 131
-Printing, recorded media	2,5	96,5	85,9	-11,0	-0,2	19 351	19 079	-1,4	-272
Petroleum, chemical products, rubber and plastic products	22,1	119,7	107,8	-9,9	-2,3	295 982	247 857	-16,3	-48 125
-Coke, petroleum products and nuclear fuel	8,5	96,4	94,6	-1,9	-0,1	118 172	85 477	-27,7	-32 695
-Basic chemicals	4,5	156,1	108,8	-30,3	-1,9	69 563	49 175	-29,3	-20 388
-Other chemical products	5,3	120,6	110,5	-8,4	-0,5	58 896	59 454	0,9	558
-Rubber products	1,0	94,8	79,3	-16,4	-0,1	12 251	11 523	-5,9	-728
-Plastic products	2,7	139,7	152,7	9,3	0,3	37 100	42 228	13,8	5 128
Glass and non-metallic mineral products	4,8	112,5	97,8	-13,1	-0,6	34 820	33 637	-3,4	-1 183
-Glass and glass products	1,0	123,7	121,7	-1,6	0,0	5 710	6 046	5,9	336
-Non-metallic mineral products	3,8	109,7	91,8	-16,3	-0,6	29 109	27 591	-5,2	-1 518
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	108,6	86,5	-20,3	-4,5	293 329	210 774	-28,1	-82 555
-Basic iron and steel products	7,7	99,9	71,1	-28,8	-2,0	126 563	72 356	-42,8	-54 207
-Non-ferrous metal products	3,4	102,9	95,7	-7,0	-0,2	40 312	29 572	-26,6	-10 740
-Structural metal products	2,0	128,0	99,2	-22,5	-0,5	24 651	19 862	-19,4	-4 789
-Other fabricated metal products	3,8	129,6	107,2	-17,3	-0,8	39 816	35 646	-10,5	-4 170
-General purpose machinery	2,4	95,1	74,0	-22,2	-0,4	24 280	20 823	-14,2	-3 457
-Special purpose machinery	3,1	109,8	88,8	-19,1	-0,6	28 473	23 789	-16,5	-4 684
-Household appliances	0,6	107,3	98,5	-8,2	0,0	9 234	8 725	-5,5	-509
Electrical machinery	2,5	127,2	122,9	-3,4	-0,1	38 497	35 060	-8,9	-3 437
Radio, television and communication apparatus and professional equipment	1,1	106,9	99,5	-6,9	-0,1	13 790	13 179	-4,4	-611
-Radio, television and communication apparatus	0,4	117,9	104,0	-11,8	0,0	6 868	6 046	-12,0	-822
-Professional equipment	0,7	99,9	96,6	-3,3	0,0	6 922	7 132	3,0	210
Motor vehicles, parts and accessories and other transport equipment	10,9	110,9	81,0	-27,0	-2,9	180 613	129 304	-28,4	-51 309
-Motor vehicles	4,9	104,9	67,5	-35,7	-1,6	89 709	63 596	-29,1	-26 113
-Bodies for motor vehicles, trailers and semi-trailers	0,5	157,6	105,0	-33,4	-0,2	8 153	6 105	-25,1	-2 048
-Parts and accessories	4,7	111,5	84,0	-24,7	-1,1	68 722	44 544	-35,2	-24 178
-Other transport equipment	0,9	117,1	124,5	6,3	0,1	14 029	15 059	7,3	1 030
Furniture and other manufacturing division	5,2	120,2	95,1	-20,9	-1,2	56 621	50 959	-10,0	-5 662
-Furniture	1,3	108,3	89,8	-17,1	-0,2	11 602	10 229	-11,8	-1 373
-Other manufacturing groups	3,9	124,2	96,8	-22,1	-0,9	45 019	40 729	-9,5	-4 290
Total	100,0	112,6	97,3	-13,6	-13,6	1 264 292	1 067 849	-15,5	-196 443

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

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 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.
- Response rate**
- 9 The preliminary response rate for the survey on manufacturing production and sales for November 2009 was 81,2%. Improved response rate for October 2009 was 91,9%.
- Statistical unit**
- 10 The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

Survey methodology and design

- 11 The survey is conducted monthly. Questionnaires are sent to a sample of 3 049 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 3 049 enterprises, which was drawn in April 2009 from a population then of 57 398 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 2009, 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 2009).

Seasonal adjustment

- 17 Seasonally adjusted estimates of all major groups are generated each month, using the X-11 Seasonal Adjustment Programme 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.

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.

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

where 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	12 500 000
Small	12 500 001	32 500 000
Medium	32 500 001	127 500 000
Large	127 500 001	

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 - 2009
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
-Petroleum products	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

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