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SUMMARY OF FINDINGS: MANUFACTURING PRODUCTION AND SALES

Table A – Selected key figures regarding manufacturing production and sales for March 2010

Actual estimates	March 2010	% change between March 2009 and March 2010	% change between January to March 2009 and January to March 2010
Physical volume of manufacturing production index (2005=100)	105,1	6,3	4,3
Total estimated sales of manufactured products (R million)	106 938	5,1	2,8

Seasonally adjusted estimates	March 2010	% change between February and March 2010	% change between October to December 2009 and January to March 2010
Physical volume of manufacturing production index (2005=100)	102,5	2,6	1,5
Total estimated sales of manufactured products (R million)	104 744	4,4	2,5

Key findings regarding manufacturing production for the first quarter of 2010

Manufacturing production for the first quarter of 2010 reflected an increase of 4,3% compared with the first quarter of 2009. Higher production for the first quarter of 2010 was reported by five of the ten manufacturing divisions.

The annual increase of 4,3% was mainly due to higher production in the motor vehicles, parts and accessories and other transport equipment division (25,4% and contributing 2,2 percentage points), the basic iron and steel, non-ferrous metal products, metal products and machinery division (10,1% and contributing 2,0 percentage points), the petroleum, chemical products, rubber and plastic products division (3,5% and contributing 0,9 of a percentage point) and the food and beverages division (2,5% and contributing 0,4 of a percentage point) (see Table 9).

Seasonally adjusted production

The seasonally adjusted manufacturing production for the first quarter of 2010 increased by 1,5% compared with the fourth quarter of 2009. Higher production levels were reported by six of the ten manufacturing divisions during this period.

The increase was driven by higher production in the basic iron and steel, non-ferrous metal products, metal products and machinery division (2,7% and contributing 0,6 of a percentage point), the wood and wood products, paper, publishing and printing division (5,9% and contributing 0,5 of a percentage point), the motor vehicles, parts and accessories and other transport equipment division (5,2% and contributing 0,5 of a percentage point), the petroleum, chemical products, rubber and plastic products division (1,4% and contributing 0,3 of a percentage point), the electrical machinery division (6,3% and contributing 0,2 of a percentage point) and the furniture and other manufacturing division (1,6% and contributing 0,1 of a percentage point). However, these increases were partially counteracted by decreases reported by the food and beverages division (-2,4% and contributing -0,4 of a percentage point) and the glass and non-metallic mineral products division (-4,0% and contributing -0,2 of a percentage point) (see Table B).

Key findings regarding manufacturing production for March 2010

Estimated actual production

The estimated manufacturing production for March 2010 increased by 6,3% compared with March 2009.

The 6,3% increase in manufacturing production in March 2010 compared with March 2009 was due to higher production in the motor vehicles, parts and accessories and other transport equipment division (24,3% and contributing 2,2 percentage points), the basic iron and steel, non-ferrous metal products, metal products and machinery division (9,5% and contributing 1,9 percentage points), the petroleum, chemical products, rubber and plastic products division (7,6% and contributing 1,8 percentage points), the food and beverages division (6,3% and contributing 1,1 percentage points) and the electrical machinery division (5,6% and contributing 0,2 of a percentage point) (see Table 4b).

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

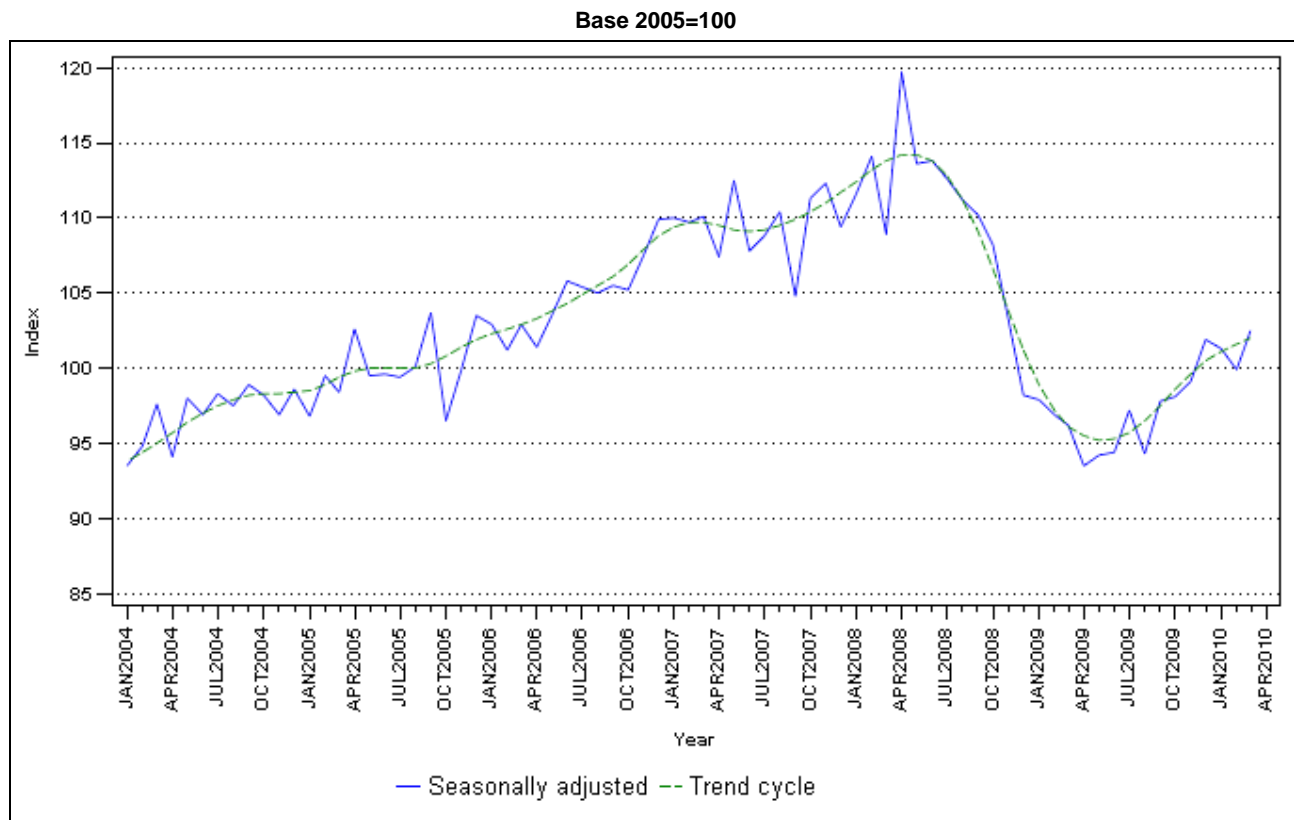
Base 2005=100

Manufacturing divisions and major groups	Percentage contribution to total manufacturing production using the weights according to the large sample survey of the manufacturing industry, 2005	Average seasonally adjusted production index for October to December 2009	Average seasonally adjusted production index for January to March 2010	Quarterly percentage change of January to March 2010 compared with the preceding three months	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and beverages	15,4	114,0	111,3	-2,4	-0,4
-Meat, fish, fruit, etc.	1,8	116,8	110,6	-5,3	-0,1
-Dairy products	0,8	110,8	107,0	-3,4	0,0
-Grain mill products	0,8	111,0	110,5	-0,5	0,0
-Other food products	5,2	109,9	107,3	-2,4	-0,1
-Beverages	6,8	117,1	115,1	-1,7	-0,1
Textiles, clothing, leather and footwear	4,9	88,3	87,3	-1,1	0,0
-Textiles	1,6	72,9	74,2	1,8	0,0
-Wearing apparel	2,3	94,1	93,3	-0,9	0,0
-Leather and leather products	0,6	93,1	84,6	-9,1	-0,1
-Footwear	0,4	107,4	108,1	0,7	0,0
Wood and wood products, paper, publishing and printing	10,2	88,8	94,0	5,9	0,5
-Wood and products of wood	2,0	82,5	85,7	3,9	0,1
-Paper and paper products	3,8	100,9	110,7	9,7	0,4
-Publishing and printing	4,3	81,0	83,0	2,5	0,1
Petroleum, chemical products, rubber and plastic products	22,1	111,1	112,6	1,4	0,3
-Coke, petroleum products and nuclear fuel	8,5	98,8	89,4	-9,5	-0,8
-Basic chemicals	4,5	109,0	124,8	14,5	0,7
-Other chemical products	5,3	110,7	116,9	5,6	0,3
-Rubber products	1,0	79,6	83,6	5,0	0,0
-Plastic products	2,7	165,9	167,2	0,8	0,0
Glass and non-metallic mineral products	4,8	95,6	91,8	-4,0	-0,2
-Glass and glass products	1,0	124,1	118,2	-4,8	-0,1
-Non-metallic mineral products	3,8	88,5	85,2	-3,7	-0,1
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	90,5	92,9	2,7	0,6
-Basic iron and steel products	7,7	89,8	93,2	3,8	0,3
-Basic precious, non-ferrous metal products	3,4	95,2	98,5	3,5	0,1
-Fabricated metal products	5,7	97,2	99,3	2,2	0,1
-Machinery and equipment	6,1	82,2	83,3	1,3	0,1
Electrical machinery	2,5	118,2	125,7	6,3	0,2
Radio, television and communication apparatus and professional equipment	1,1	96,0	91,6	-4,6	0,0
-Radio, television and communication apparatus	0,4	94,9	96,0	1,2	0,0
-Professional equipment	0,7	96,7	88,8	-8,2	-0,1
Motor vehicles, parts and accessories and other transport equipment	10,9	90,6	95,3	5,2	0,5
-Motor vehicles	4,9	72,4	83,8	15,7	0,6
-Bodies for motor vehicles, trailers and semi-trailers	0,5	109,0	114,5	5,0	0,0
-Parts and accessories	4,7	100,5	101,8	1,3	0,1
-Other transport equipment	0,9	126,6	112,9	-10,8	-0,1
Furniture and other manufacturing division	5,2	96,6	98,1	1,6	0,1
-Furniture	1,3	86,9	92,8	6,8	0,1
-Other manufacturing groups	3,9	99,8	99,9	0,1	0,0
Total	100,0	99,7	101,2	1,5	1,5

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 2004 and March 2010.

Figure 1 – Index of the physical volume of manufacturing production: 2004 – 2010



Key findings regarding sales of manufactured products

The estimated total value of sales of manufactured products at current prices for the first quarter of 2010 increased by 2,5% (R7 383 million), after seasonal adjustment, compared with the fourth quarter of 2009. Higher manufacturing sales were reported by six of the ten manufacturing divisions during this period (see Table C).

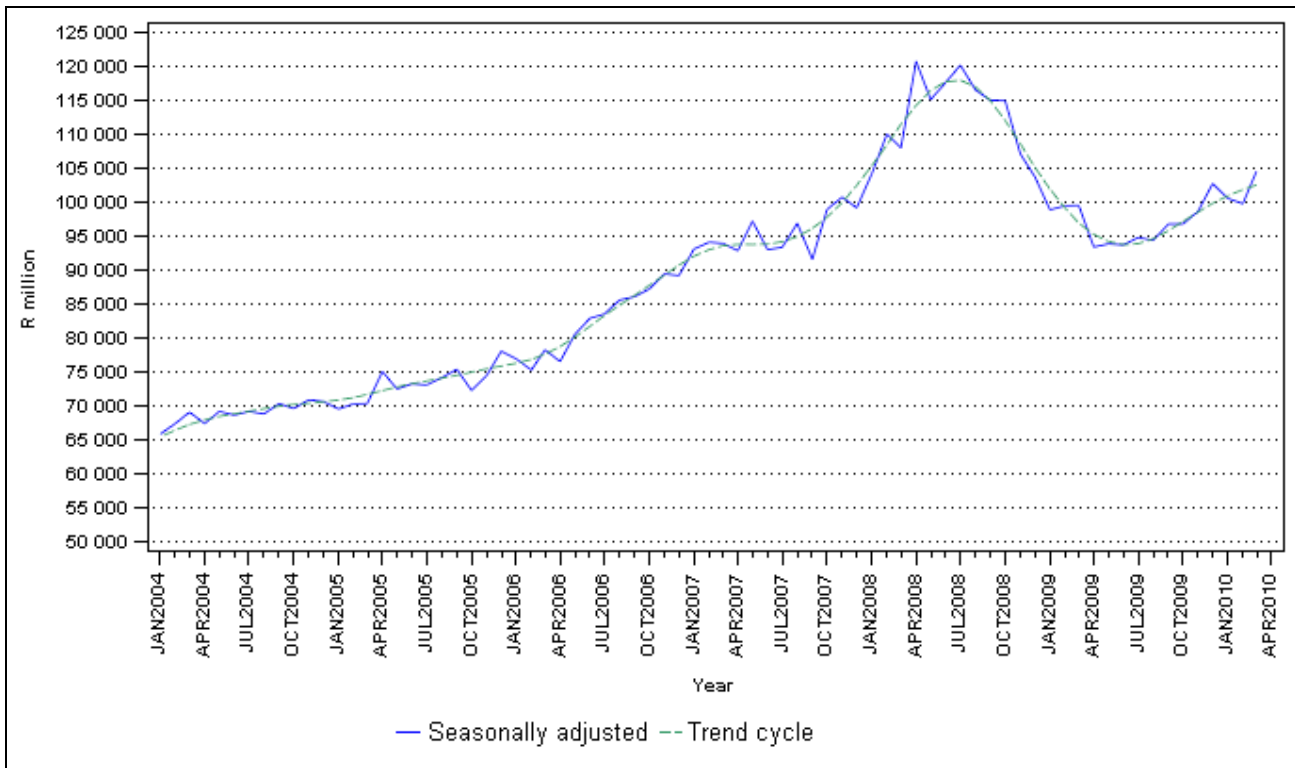
Large increases were mainly reported for the basic iron and steel, non-ferrous metal products, metal products and machinery division (7,3% or R4 197 million), the petroleum, chemical products, rubber and plastic products division (3,2% or R2 246 million), the wood and wood products, paper, publishing, rubber and plastic products division (4,8% or R1 191 million) and the motor vehicles, parts and accessories and other transport equipment division (3,8% or R1 468 million) during the above-mentioned period (see Table C).

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

Manufacturing divisions and major groups	Seasonally adjusted sales October to December 2009	Seasonally adjusted sales January to March 2010	Percentage change between October to December 2009 and January to March 2010	Difference in seasonally adjusted sales of manufacturing divisions between October to December 2009 and January to March 2010
	R000	R000	%	R000
Food and beverages	61 325 682	60 437 499	-1,4	-888 183
-Food and food products	46 379 859	45 708 543	-1,4	-671 316
-Beverages	14 945 823	14 728 956	-1,5	-216 867
Textiles, clothing, leather and footwear	9 314 331	9 333 342	0,2	19 011
-Textiles	3 607 587	3 617 129	0,3	9 542
-Wearing apparel	3 723 344	3 742 157	0,5	18 813
-Leather and leather products	1 058 376	1 040 678	-1,7	-17 698
-Footwear	925 023	933 382	0,9	8 359
Wood and wood products, paper, publishing and printing	24 907 855	26 098 609	4,8	1 190 754
-Wood and products of wood	5 476 670	5 672 248	3,6	195 578
-Paper and paper products	11 167 776	11 881 770	6,4	713 994
-Publishing and printing	8 263 408	8 544 590	3,4	281 182
Petroleum, chemical products, rubber and plastic products	69 460 091	71 705 714	3,2	2 245 623
-Coke, petroleum products and nuclear fuel	24 342 289	25 470 438	4,6	1 128 149
-Basic chemicals	13 178 968	13 962 125	5,9	783 157
-Other chemical products	16 597 739	16 396 899	-1,2	-200 840
-Rubber products	3 172 009	3 276 793	3,3	104 784
-Plastic products	12 169 086	12 599 460	3,5	430 374
Glass and non-metallic mineral products	9 263 277	8 855 419	-4,4	-407 858
-Glass and glass products	1 751 505	1 611 159	-8,0	-140 346
-Non-metallic mineral products	7 511 772	7 244 260	-3,6	-267 512
Basic iron and steel, non-ferrous metal products, metal products and machinery	57 342 013	61 538 685	7,3	4 196 672
-Basic iron and steel products	20 777 153	23 887 761	15,0	3 110 608
-Basic precious, non-ferrous metal products	7 935 770	8 349 763	5,2	413 993
-Fabricated metal products	14 433 972	14 906 738	3,3	472 766
-Machinery and equipment	14 195 120	14 394 422	1,4	199 302
Electrical machinery	9 315 792	10 050 614	7,9	734 822
Radio, television and communication apparatus and professional equipment	3 537 720	3 449 216	-2,5	-88 504
-Radio, television and communication apparatus	1 555 611	1 573 520	1,2	17 909
-Professional equipment	1 982 109	1 875 695	-5,4	-106 414
Motor vehicles, parts and accessories and other transport equipment	38 493 929	39 961 863	3,8	1 467 934
-Motor vehicles, trailers, parts and accessories	34 320 587	36 194 448	5,5	1 873 861
-Other transport equipment	4 173 343	3 767 415	-9,7	-405 928
Furniture and other manufacturing division	15 301 329	14 213 575	-7,1	-1 087 754
-Furniture	2 715 255	2 939 315	8,3	224 060
-Other manufacturing groups	12 586 075	11 274 260	-10,4	-1 311 815
Total	298 262 020	305 644 536	2,5	7 382 516

Figure 2 shows the seasonally adjusted and trend series for sales of manufactured products between January 2004 and March 2010.

Figure 2 – Total estimated sales of the manufacturing industry at current prices: 2004 – 2010



P J Lehohla
Statistician-General

Detailed results: Tables

Table 1 – Total index of the physical volume of manufacturing production: 2004 – 2010

Base 2005 = 100

Month	2004	2005	2006	2007	2008	2009	2010
Jan	82,6	85,2	89,8	95,2	96,2	83,9	1/ 86,9
Feb	91,5	95,5	96,8	104,6	108,5	92,0	1/ 94,5
Mar	100,8	101,8	106,3	113,4	112,0	98,9	1/ 105,1
Apr	88,9	96,2	95,4	100,6	111,8	87,5	
May	98,7	100,3	104,2	113,2	114,3	94,5	
Jun	97,6	100,1	106,6	108,9	115,1	95,5	
Jul	100,0	100,9	107,4	111,1	115,3	99,5	
Aug	100,3	103,3	108,7	114,4	115,0	97,4	
Sep	102,3	107,5	109,6	108,8	114,5	101,5	
Oct	108,2	106,9	117,0	124,2	121,4	109,9	
Nov	107,5	110,7	119,0	124,3	114,7	109,3	
Dec	87,0	91,4	96,9	96,6	88,2	91,0	
Year	97,1	100,0	104,8	109,6	110,6	96,7	

1/ Preliminary.

Table 2 – Annual percentage change in the total index of the physical volume of manufacturing production: 2004 – 2010 2/

Month	2004	2005	2006	2007	2008	2009	2010
Jan	-1,9	3,1	5,4	6,0	1,1	-12,8	3,6
Feb	-1,2	4,4	1,4	8,1	3,7	-15,2	2,7
Mar	5,0	1,0	4,4	6,7	-1,2	-11,7	6,3
Apr	0,1	8,2	-0,8	5,5	11,1	-21,7	
May	5,2	1,6	3,9	8,6	1,0	-17,3	
Jun	4,5	2,6	6,5	2,2	5,7	-17,0	
Jul	3,6	0,9	6,4	3,4	3,8	-13,7	
Aug	6,8	3,0	5,2	5,2	0,5	-15,3	
Sep	6,5	5,1	2,0	-0,7	5,2	-11,4	
Oct	4,7	-1,2	9,4	6,2	-2,3	-9,5	
Nov	5,8	3,0	7,5	4,5	-7,7	-4,7	
Dec	7,8	5,1	6,0	-0,3	-8,7	3,2	
Year	4,0	3,0	4,8	4,6	0,9	-12,6	

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: 2004 – 2010

Base 2005 = 100

Month	2004	2005	2006	2007	2008	2009	2010
Jan	93,5	96,8	102,9	110,0	111,6	97,9	101,3
Feb	94,8	99,5	101,2	109,7	114,1	96,9	99,9
Mar	97,6	98,4	102,9	110,1	108,9	96,2	102,5
Apr	94,1	102,6	101,4	107,4	119,7	93,5	
May	98,0	99,5	103,5	112,5	113,6	94,2	
Jun	96,9	99,6	105,8	107,8	113,8	94,4	
Jul	98,3	99,4	105,4	108,8	112,6	97,2	
Aug	97,5	100,1	105,0	110,4	111,2	94,3	
Sep	98,9	103,7	105,5	104,8	110,2	97,8	
Oct	98,2	96,5	105,2	111,3	108,2	98,1	
Nov	96,9	99,9	107,5	112,3	103,2	99,1	
Dec	98,6	103,5	109,9	109,4	98,2	101,9	

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 2009	Actual indices			Seasonally adjusted indices		
			March 2009	1/ February 2010	1/ March 2010	March 2009	February 2010	March 2010
Food and beverages	15,4	111,7	110,4	100,2	117,4	109,7	108,9	116,7
-Meat, fish, fruit, etc.	1,8	109,3	115,4	104,3	129,0	104,4	104,9	116,9
-Dairy products	0,8	109,7	110,1	94,9	107,9	109,7	101,6	107,8
-Grain mill products	0,8	108,5	116,0	98,8	120,8	113,3	106,8	118,3
-Other food products	5,2	110,3	96,8	86,9	97,4	106,1	108,9	107,0
-Beverages	6,8	113,9	118,7	110,0	130,2	113,4	110,9	124,9
Textiles, clothing, leather and footwear	4,9	89,5	98,2	84,8	93,6	92,9	84,3	88,7
-Textiles	0,7	73,7	88,9	75,8	79,0	79,6	68,3	70,6
-Other textile products	0,9	78,1	86,2	78,1	78,4	83,1	75,5	75,9
-Knitted, crocheted articles	0,2	104,4	121,9	113,2	128,4	111,2	110,3	117,2
-Wearing apparel	2,1	96,5	108,6	86,9	98,1	103,5	88,0	93,4
-Leather and leather products	0,6	83,6	79,2	85,2	93,2	73,0	83,0	86,6
-Footwear	0,4	107,3	106,3	91,7	114,2	104,8	102,6	113,1
Wood and wood products, paper, publishing and printing	10,2	92,0	99,4	89,8	97,7	96,8	93,6	95,2
-Sawmilling and planing of wood	0,7	73,4	78,2	84,0	90,6	72,0	82,1	83,6
-Products of wood	1,3	88,6	94,1	81,2	89,3	92,1	87,1	87,1
-Paper and paper products	3,8	103,6	110,7	101,8	115,0	110,1	108,9	114,2
-Publishing	1,9	86,8	98,2	78,1	83,5	94,0	79,7	79,7
-Printing, recorded media	2,5	84,8	91,5	86,0	87,9	87,9	87,1	84,7
Petroleum, chemical products, rubber and plastic products	22,1	107,5	105,9	103,6	114,0	105,3	111,9	113,6
-Coke, petroleum products and nuclear fuel	8,5	95,3	86,6	77,2	89,0	87,0	87,2	89,9
-Basic chemicals	4,5	107,9	110,7	114,3	116,1	117,6	125,3	123,8
-Other chemical products	5,3	109,6	119,5	111,5	126,5	112,5	117,3	119,1
-Rubber products	1,0	77,3	83,6	87,6	96,2	76,0	83,0	87,4
-Plastic products	2,7	151,7	140,1	158,8	171,1	139,1	166,8	169,8
Glass and non-metallic mineral products	4,8	96,5	100,8	85,6	94,2	98,7	91,5	92,0
-Glass and glass products	1,0	121,6	119,6	114,7	107,0	129,7	114,5	116,2
-Non-metallic mineral products	3,8	90,2	96,1	78,3	91,0	91,0	85,8	86,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	85,9	88,0	87,2	96,4	83,6	93,5	92,2
-Basic iron and steel products	7,7	72,0	58,0	81,2	87,8	58,9	93,9	89,3
-Non-ferrous metal products	3,4	95,4	98,7	94,7	104,3	94,2	100,8	99,7
-Structural metal products	2,0	96,7	103,9	82,0	89,8	102,3	85,6	88,9
-Other fabricated metal products	3,8	104,5	119,2	103,5	109,5	111,3	107,0	102,4
-General purpose machinery	2,4	73,2	75,7	66,3	72,5	74,6	71,2	71,6
-Special purpose machinery	3,1	88,3	108,2	91,6	114,1	91,3	90,7	95,7
-Household appliances	0,6	96,0	108,6	95,7	104,5	100,8	91,1	96,6
Electrical machinery	2,5	121,2	134,8	121,1	142,4	124,8	120,4	131,4
Radio, television and communication apparatus and professional equipment	1,1	98,7	101,6	97,0	98,3	101,2	96,5	98,0
-Radio, television and communication apparatus	0,4	102,8	99,1	97,8	102,5	96,0	98,1	99,2
-Professional equipment	0,7	96,1	103,2	96,5	95,6	104,5	95,6	97,2
Motor vehicles, parts and accessories and other transport equipment	10,9	79,7	82,0	89,8	101,9	77,3	92,0	96,3
-Motor vehicles	4,9	66,1	73,7	77,9	88,3	71,7	77,6	86,2
-Bodies for motor vehicles, trailers and semi-trailers	0,5	104,3	109,5	112,2	129,6	105,9	114,3	125,5
-Parts and accessories	4,7	82,4	75,3	95,6	109,5	70,4	100,4	102,2
-Other transport equipment	0,9	124,8	145,1	111,2	121,5	126,1	113,4	105,6
Furniture and other manufacturing division	5,2	94,5	97,7	94,9	94,2	98,3	91,8	95,8
-Furniture	1,3	88,8	83,1	86,0	83,2	90,7	89,9	91,6
-Other manufacturing groups	3,9	96,4	102,6	97,8	97,8	100,9	92,5	97,2
Total	100,0	96,7	98,9	94,5	105,1	96,2	99,9	102,5

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 2009	Actual indices			Seasonally adjusted indices		
			March 2009	1/ March 2010	Percentage change between March 2009 and March 2010	February 2010	March 2010	Percentage change between February and March 2010
Food and beverages	15,4	111,7	110,4	117,4	6,3	108,9	116,7	7,2
-Meat, fish, fruit, etc.	1,8	109,3	115,4	129,0	11,8	104,9	116,9	11,4
-Dairy products	0,8	109,7	110,1	107,9	-2,0	101,6	107,8	6,1
-Grain mill products	0,8	108,5	116,0	120,8	4,1	106,8	118,3	10,8
-Other food products	5,2	110,3	96,8	97,4	0,6	108,9	107,0	-1,7
-Beverages	6,8	113,9	118,7	130,2	9,7	110,9	124,9	12,6
Textiles, clothing, leather and footwear	4,9	89,5	98,2	93,6	-4,7	84,3	88,7	5,2
-Textiles	0,7	73,7	88,9	79,0	-11,1	68,3	70,6	3,4
-Other textile products	0,9	78,1	86,2	78,4	-9,0	75,5	75,9	0,5
-Knitted, crocheted articles	0,2	104,4	121,9	128,4	5,3	110,3	117,2	6,3
-Wearing apparel	2,1	96,5	108,6	98,1	-9,7	88,0	93,4	6,1
-Leather and leather products	0,6	83,6	79,2	93,2	17,7	83,0	86,6	4,3
-Footwear	0,4	107,3	106,3	114,2	7,4	102,6	113,1	10,2
Wood and wood products, paper, publishing and printing	10,2	92,0	99,4	97,7	-1,7	93,6	95,2	1,7
-Sawmilling and planing of wood	0,7	73,4	78,2	90,6	15,9	82,1	83,6	1,8
-Products of wood	1,3	88,6	94,1	89,3	-5,1	87,1	87,1	0,0
-Paper and paper products	3,8	103,6	110,7	115,0	3,9	108,9	114,2	4,9
-Publishing	1,9	86,8	98,2	83,5	-15,0	79,7	79,7	0,0
-Printing, recorded media	2,5	84,8	91,5	87,9	-3,9	87,1	84,7	-2,8
Petroleum, chemical products, rubber and plastic products	22,1	107,5	105,9	114,0	7,6	111,9	113,6	1,5
-Coke, petroleum products and nuclear fuel	8,5	95,3	86,6	89,0	2,8	87,2	89,9	3,1
-Basic chemicals	4,5	107,9	110,7	116,1	4,9	125,3	123,8	-1,2
-Other chemical products	5,3	109,6	119,5	126,5	5,9	117,3	119,1	1,5
-Rubber products	1,0	77,3	83,6	96,2	15,1	83,0	87,4	5,3
-Plastic products	2,7	151,7	140,1	171,1	22,1	166,8	169,8	1,8
Glass and non-metallic mineral products	4,8	96,5	100,8	94,2	-6,5	91,5	92,0	0,5
-Glass and glass products	1,0	121,6	119,6	107,0	-10,5	114,5	116,2	1,5
-Non-metallic mineral products	3,8	90,2	96,1	91,0	-5,3	85,8	86,0	0,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	85,9	88,0	96,4	9,5	93,5	92,2	-1,4
-Basic iron and steel products	7,7	72,0	58,0	87,8	51,4	93,9	89,3	-4,9
-Non-ferrous metal products	3,4	95,4	98,7	104,3	5,7	100,8	99,7	-1,1
-Structural metal products	2,0	96,7	103,9	89,8	-13,6	85,6	88,9	3,9
-Other fabricated metal products	3,8	104,5	119,2	109,5	-8,1	107,0	102,4	-4,3
-General purpose machinery	2,4	73,2	75,7	72,5	-4,2	71,2	71,6	0,6
-Special purpose machinery	3,1	88,3	108,2	114,1	5,5	90,7	95,7	5,5
-Household appliances	0,6	96,0	108,6	104,5	-3,8	91,1	96,6	6,0
Electrical machinery	2,5	121,2	134,8	142,4	5,6	120,4	131,4	9,1
Radio, television and communication apparatus and professional equipment	1,1	98,7	101,6	98,3	-3,2	96,5	98,0	1,6
-Radio, television and communication apparatus	0,4	102,8	99,1	102,5	3,4	98,1	99,2	1,1
-Professional equipment	0,7	96,1	103,2	95,6	-7,4	95,6	97,2	1,7
Motor vehicles, parts and accessories and other transport equipment	10,9	79,7	82,0	101,9	24,3	92,0	96,3	4,7
-Motor vehicles	4,9	66,1	73,7	88,3	19,8	77,6	86,2	11,1
-Bodies for motor vehicles, trailers and semi-trailers	0,5	104,3	109,5	129,6	18,4	114,3	125,5	9,8
-Parts and accessories	4,7	82,4	75,3	109,5	45,4	100,4	102,2	1,8
-Other transport equipment	0,9	124,8	145,1	121,5	-16,3	113,4	105,6	-6,9
Furniture and other manufacturing division	5,2	94,5	97,7	94,2	-3,6	91,8	95,8	4,4
-Furniture	1,3	88,8	83,1	83,2	0,1	89,9	91,6	1,9
-Other manufacturing groups	3,9	96,4	102,6	97,8	-4,7	92,5	97,2	5,1
Total	100,0	96,7	98,9	105,1	6,3	99,9	102,5	2,6

1/ Preliminary.

Table 5 – Total estimated sales of the manufacturing industry at current prices (R000): 2004 – 2010

Month	2004	2005	2006	2007	2008	2009	2010
Jan	55 702 288	58 705 257	64 904 290	78 599 468	88 223 092	83 315 861	1/ 84 932 700
Feb	65 027 262	67 592 645	72 163 648	89 769 884	104 338 982	94 452 035	1/ 95 313 102
Mar	70 936 530	72 099 488	80 114 612	96 207 130	110 254 490	101 729 244	1/ 106 937 777
Apr	63 759 248	70 718 822	71 780 033	86 839 371	112 640 753	87 148 078	
May	69 557 193	72 750 078	80 692 987	97 573 896	115 671 466	93 686 610	
Jun	69 338 797	74 062 607	84 011 510	94 620 631	120 138 492	95 271 113	
Jul	69 855 977	74 136 551	85 136 537	95 460 248	123 799 542	97 023 688	
Aug	70 632 321	76 550 034	88 805 047	100 791 378	121 886 864	98 084 036	
Sep	73 800 845	79 380 270	90 800 328	96 560 089	121 355 165	101 809 619	
Oct	76 370 559	79 431 755	96 059 766	109 274 819	127 291 387	107 197 685	
Nov	78 717 134	82 992 688	99 301 579	111 717 168	118 691 642	109 078 529	
Dec	64 304 382	70 482 179	79 607 355	88 372 560	93 232 454	92 803 302	
Year	828 002 536	878 902 374	993 377 692	1 145 786 642	1 357 524 329	1 161 599 800	

1/ Preliminary.

Table 6 – Annual percentage change in the total estimated value of sales of the manufacturing industry: 2004 – 2010 2/

Month	2004	2005	2006	2007	2008	2009	2010
Jan	1,3	5,4	10,6	21,1	12,2	-5,6	1,9
Feb	3,6	3,9	6,8	24,4	16,2	-9,5	0,9
Mar	8,5	1,6	11,1	20,1	14,6	-7,7	5,1
Apr	4,3	10,9	1,5	21,0	29,7	-22,6	
May	10,8	4,6	10,9	20,9	18,5	-19,0	
Jun	9,2	6,8	13,4	12,6	27,0	-20,7	
Jul	9,2	6,1	14,8	12,1	29,7	-21,6	
Aug	10,5	8,4	16,0	13,5	20,9	-19,5	
Sep	12,6	7,6	14,4	6,3	25,7	-16,1	
Oct	8,7	4,0	20,9	13,8	16,5	-15,8	
Nov	14,1	5,4	19,7	12,5	6,2	-8,1	
Dec	10,1	9,6	12,9	11,0	5,5	-0,5	
Year	8,7	6,1	13,0	15,3	18,5	-14,4	

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 (R000): 2004 – 2010

Month	2004	2005	2006	2007	2008	2009	2010
Jan	65 857 954	69 536 852	76 922 526	93 122 942	104 202 233	98 921 789	100 610 245
Feb	67 419 702	70 302 290	75 281 021	94 087 228	109 977 181	99 388 156	100 289 848
Mar	69 073 239	70 341 827	78 263 829	93 952 907	108 042 006	99 566 108	104 744 443
Apr	67 388 542	75 056 484	76 531 144	92 862 580	120 760 715	93 400 089	
May	69 179 124	72 488 918	80 515 746	97 214 670	115 110 376	93 863 701	
Jun	68 649 578	73 259 303	82 895 258	93 034 479	117 678 295	93 712 870	
Jul	69 178 191	73 088 538	83 536 810	93 348 815	120 194 489	94 803 831	
Aug	68 821 879	74 151 459	85 587 092	96 886 796	116 544 281	94 382 324	
Sep	70 331 554	75 384 018	86 087 086	91 602 250	115 004 897	96 795 348	
Oct	69 614 921	72 277 224	87 214 090	98 916 200	114 952 727	96 805 865	
Nov	70 893 002	74 458 827	89 452 612	100 784 042	107 155 089	98 688 402	
Dec	70 629 989	78 053 275	89 208 006	99 189 940	103 761 587	102 767 753	

Table 8a – Estimated sales of the manufacturing industry according to manufacturing divisions and major groups (R000)

Manufacturing divisions and major groups	Year 2009	Actual values			Seasonally adjusted values		
		March 2009	1/ February 2010	1/ March 2010	March 2009	February 2010	March 2010
Food and beverages	240 845 177	20 125 145	19 029 056	21 199 050	20 087 033	19 993 559	21 179 337
-Meat, fish, fruit, etc.	63 578 365	5 532 282	4 903 992	6 009 128	5 269 828	5 364 582	5 730 449
-Dairy products	20 468 131	1 678 008	1 562 350	1 828 463	1 636 447	1 630 033	1 791 830
-Grain mill products	45 484 365	4 110 833	3 211 796	3 936 126	4 006 526	3 563 722	3 838 006
-Other food products	53 840 204	4 278 287	4 449 052	4 125 973	4 585 957	4 675 249	4 433 202
-Beverages	57 474 112	4 525 735	4 901 866	5 299 360	4 588 274	4 759 973	5 385 850
Textiles, clothing, leather and footwear	38 323 315	3 518 050	3 028 542	3 303 022	3 306 242	3 065 787	3 117 725
-Textiles	5 754 712	575 962	468 043	510 181	517 763	459 889	459 766
-Other textile products	9 345 257	864 674	763 521	772 883	807 920	753 966	726 138
-Knitted, crocheted articles	1 645 824	168 799	140 729	167 823	147 191	143 165	146 186
-Wearing apparel	14 092 990	1 303 853	1 029 782	1 164 930	1 244 735	1 069 489	1 114 648
-Leather and leather products	3 879 847	321 494	357 221	375 403	298 450	340 857	349 724
-Footwear	3 604 685	283 268	269 246	311 802	290 183	298 423	321 263
Wood and wood products, paper, publishing and printing	101 721 747	9 072 081	8 363 179	9 082 482	8 806 107	8 689 630	8 813 819
-Sawmilling and planing of wood	6 382 241	548 182	593 394	622 254	533 749	591 209	607 212
-Products of wood	15 749 367	1 340 346	1 209 682	1 282 325	1 353 599	1 268 073	1 296 920
-Paper and paper products	45 633 499	4 125 726	3 711 864	4 240 155	3 946 001	3 942 758	4 049 220
-Publishing	13 331 316	1 215 385	1 067 644	1 102 844	1 183 978	1 071 772	1 072 507
-Printing, recorded media	20 625 324	1 842 442	1 780 595	1 834 904	1 788 780	1 815 818	1 787 959
Petroleum, chemical products, rubber and plastic products	269 871 735	22 057 200	21 310 223	23 690 171	22 289 571	23 641 782	24 036 877
-Coke, petroleum products and nuclear fuel	93 661 889	6 680 478	6 873 356	7 466 381	7 335 740	8 289 199	8 268 222
-Basic chemicals	53 153 291	4 811 854	4 105 681	4 751 232	4 857 905	4 605 740	4 782 678
-Other chemical products	64 929 930	5 748 126	5 238 369	5 879 251	5 439 522	5 494 995	5 565 910
-Rubber products	12 371 122	1 218 441	1 111 253	1 262 388	1 078 152	1 075 593	1 113 515
-Plastic products	45 755 503	3 598 301	3 981 564	4 330 919	3 578 251	4 176 255	4 306 553
Glass and non-metallic mineral products	36 097 324	3 129 079	2 897 572	3 105 805	3 020 388	3 014 575	2 988 856
-Glass and glass products	6 605 208	501 851	521 581	472 219	544 617	546 192	512 484
-Non-metallic mineral products	29 492 116	2 627 228	2 375 991	2 633 586	2 475 771	2 468 383	2 476 372
Basic iron and steel, non-ferrous metal products, metal products and machinery	226 472 456	20 623 210	18 907 632	22 051 571	20 005 303	20 248 091	21 504 701
-Basic iron and steel products	77 590 894	6 695 227	7 108 200	8 193 732	7 001 355	7 856 895	8 556 714
-Non-ferrous metal products	31 889 556	2 701 416	2 340 568	3 022 695	2 656 362	2 627 584	2 981 372
-Structural metal products	21 258 572	2 150 516	1 529 898	1 817 263	2 002 640	1 624 019	1 688 345
-Other fabricated metal products	38 068 027	3 475 989	3 175 076	3 524 668	3 327 900	3 356 556	3 372 314
-General purpose machinery	22 530 421	1 946 269	1 725 535	1 884 286	1 923 830	1 852 783	1 865 128
-Special purpose machinery	25 790 190	2 772 346	2 254 995	2 751 795	2 283 383	2 184 142	2 254 997
-Household appliances	9 344 796	881 447	773 360	857 132	809 833	746 111	785 831
Electrical machinery	37 917 103	3 442 640	3 202 887	3 781 524	3 197 020	3 202 594	3 483 674
Radio, television and communication apparatus and professional equipment	14 337 276	1 220 722	1 158 634	1 258 486	1 170 777	1 185 632	1 209 747
-Radio, television and communication apparatus	6 543 934	560 100	519 777	585 363	535 341	545 445	561 495
-Professional equipment	7 793 342	660 622	638 857	673 123	635 437	640 187	648 252
Motor vehicles, parts and accessories and other transport equipment	139 600 661	13 809 653	12 790 704	14 842 323	12 482 491	12 973 268	13 408 757
-Motor vehicles	68 801 772	7 347 006	6 543 123	7 956 494	6 515 423	6 629 464	7 033 041
-Bodies for motor vehicles, trailers and semi-trailers	6 588 091	580 524	562 621	618 616	575 999	598 760	615 436
-Parts and accessories	47 749 947	4 274 527	4 462 601	4 925 634	3 971 013	4 488 971	4 574 984
-Other transport equipment	16 460 851	1 607 596	1 222 359	1 341 579	1 420 056	1 256 073	1 185 296
Furniture and other manufacturing division	56 413 006	4 731 464	4 624 673	4 623 343	5 201 176	4 274 931	5 000 950
-Furniture	11 072 539	857 712	887 647	872 576	940 254	951 021	966 612
-Other manufacturing groups	45 340 467	3 873 752	3 737 026	3 750 767	4 260 922	3 323 910	4 034 338
Total	1 161 599 800	101 729 244	95 313 102	106 937 777	99 566 108	100 289 848	104 744 443

1/ Preliminary.

Table 8b – Estimated sales of the manufacturing industry according to manufacturing divisions and major groups (R000) (concluded)

Manufacturing divisions and major groups	Year 2009	Actual values			Seasonally adjusted values		
		March 2009	1/ March 2010	Percentage change between March 2009 and March 2010	February 2010	March 2010	Percentage change between February 2010 and March 2010
Food and beverages	240 845 177	20 125 145	21 199 050	5,3	19 993 559	21 179 337	5,9
-Meat, fish, fruit, etc.	63 578 365	5 532 282	6 009 128	8,6	5 364 582	5 730 449	6,8
-Dairy products	20 468 131	1 678 008	1 828 463	9,0	1 630 033	1 791 830	9,9
-Grain mill products	45 484 365	4 110 833	3 936 126	-4,2	3 563 722	3 838 006	7,7
-Other food products	53 840 204	4 278 287	4 125 973	-3,6	4 675 249	4 433 202	-5,2
-Beverages	57 474 112	4 525 735	5 299 360	17,1	4 759 973	5 385 850	13,1
Textiles, clothing, leather and footwear	38 323 315	3 518 050	3 303 022	-6,1	3 065 787	3 117 725	1,7
-Textiles	5 754 712	575 962	510 181	-11,4	459 889	459 766	0,0
-Other textile products	9 345 257	864 674	772 883	-10,6	753 966	726 138	-3,7
-Knitted, crocheted articles	1 645 824	168 799	167 823	-0,6	143 165	146 186	2,1
-Wearing apparel	14 092 990	1 303 853	1 164 930	-10,7	1 069 489	1 114 648	4,2
-Leather and leather products	3 879 847	321 494	375 403	16,8	340 857	349 724	2,6
-Footwear	3 604 685	283 268	311 802	10,1	298 423	321 263	7,7
Wood and wood products, paper, publishing and printing	101 721 747	9 072 081	9 082 482	0,1	8 689 630	8 813 819	1,4
-Sawmilling and planing of wood	6 382 241	548 182	622 254	13,5	591 209	607 212	2,7
-Products of wood	15 749 367	1 340 346	1 282 325	-4,3	1 268 073	1 296 920	2,3
-Paper and paper products	45 633 499	4 125 726	4 240 155	2,8	3 942 758	4 049 220	2,7
-Publishing	13 331 316	1 215 385	1 102 844	-9,3	1 071 772	1 072 507	0,1
-Printing, recorded media	20 625 324	1 842 442	1 834 904	-0,4	1 815 818	1 787 959	-1,5
Petroleum, chemical products, rubber and plastic products	269 871 735	22 057 200	23 690 171	7,4	23 641 782	24 036 877	1,7
-Coke, petroleum products and nuclear fuel	93 661 889	6 680 478	7 466 381	11,8	8 289 199	8 268 222	-0,3
-Basic chemicals	53 153 291	4 811 854	4 751 232	-1,3	4 605 740	4 782 678	3,8
-Other chemical products	64 929 930	5 748 126	5 879 251	2,3	5 494 995	5 565 910	1,3
-Rubber products	12 371 122	1 218 441	1 262 388	3,6	1 075 593	1 113 515	3,5
-Plastic products	45 755 503	3 598 301	4 330 919	20,4	4 176 255	4 306 553	3,1
Glass and non-metallic mineral products	36 097 324	3 129 079	3 105 805	-0,7	3 014 575	2 988 856	-0,9
-Glass and glass products	6 605 208	501 851	472 219	-5,9	546 192	512 484	-6,2
-Non-metallic mineral products	29 492 116	2 627 228	2 633 586	0,2	2 468 383	2 476 372	0,3
Basic iron and steel, non-ferrous metal products, metal products and machinery	226 472 456	20 623 210	22 051 571	6,9	20 248 091	21 504 701	6,2
-Basic iron and steel products	77 590 894	6 695 227	8 193 732	22,4	7 856 895	8 556 714	8,9
-Non-ferrous metal products	31 889 556	2 701 416	3 022 695	11,9	2 627 584	2 981 372	13,5
-Structural metal products	21 258 572	2 150 516	1 817 263	-15,5	1 624 019	1 688 345	4,0
-Other fabricated metal products	38 068 027	3 475 989	3 524 668	1,4	3 356 556	3 372 314	0,5
-General purpose machinery	22 530 421	1 946 269	1 884 286	-3,2	1 852 783	1 865 128	0,7
-Special purpose machinery	25 790 190	2 772 346	2 751 795	-0,7	2 184 142	2 254 997	3,2
-Household appliances	9 344 796	881 447	857 132	-2,8	746 111	785 831	5,3
Electrical machinery	37 917 103	3 442 640	3 781 524	9,8	3 202 594	3 483 674	8,8
Radio, television and communication apparatus and professional equipment	14 337 276	1 220 722	1 258 486	3,1	1 185 632	1 209 747	2,0
-Radio, television and communication apparatus	6 543 934	560 100	585 363	4,5	545 445	561 495	2,9
-Professional equipment	7 793 342	660 622	673 123	1,9	640 187	648 252	1,3
Motor vehicles, parts and accessories and other transport equipment	139 600 661	13 809 653	14 842 323	7,5	12 973 268	13 408 757	3,4
-Motor vehicles	68 801 772	7 347 006	7 956 494	8,3	6 629 464	7 033 041	6,1
-Bodies for motor vehicles, trailers and semi-trailers	6 588 091	580 524	618 616	6,6	598 760	615 436	2,8
-Parts and accessories	47 749 947	4 274 527	4 925 634	15,2	4 488 971	4 574 984	1,9
-Other transport equipment	16 460 851	1 607 596	1 341 579	-16,5	1 256 073	1 185 296	-5,6
Furniture and other manufacturing division	56 413 006	4 731 464	4 623 343	-2,3	4 274 931	5 000 950	17,0
-Furniture	11 072 539	857 712	872 576	1,7	951 021	966 612	1,6
-Other manufacturing groups	45 340 467	3 873 752	3 750 767	-3,2	3 323 910	4 034 338	21,4
Total	1 161 599 800	101 729 244	106 937 777	5,1	100 289 848	104 744 443	4,4

1/ Preliminary.

Table 9 – Annual percentage change in the quarterly/cumulative physical volume of manufacturing production and estimated sales according to manufacturing divisions and major groups

Manufacturing divisions and major groups	Weights	Indices (base 2005=100)				Value of sales (R million)			
		Jan. to Mar. 2009	Jan. to Mar. 2010	Annual percentage change between 2009 and 2010	1/ Contribution (percentage points)	Jan. to Mar. 2009	Jan. to Mar. 2010	Annual percentage change between 2009 and 2010	Difference in sales between 2009 and 2010
Food and beverages	15,4	101,0	103,5	2,5	0,4	56 263	57 092	1,5	829
-Meat, fish, fruit, etc.	1,8	103,4	109,5	5,9	0,1	14 748	15 334	4,0	586
-Dairy products	0,8	107,3	105,8	-1,4	0,0	4 988	4 994	0,1	6
-Grain mill products	0,8	104,4	105,8	1,3	0,0	11 273	10 339	-8,3	-934
-Other food products	5,2	88,1	87,2	-1,0	-0,1	12 322	12 252	-0,6	-70
-Beverages	6,8	109,1	113,6	4,1	0,3	12 931	14 172	9,6	1 241
Textiles, clothing, leather and footwear	4,9	88,7	81,0	-8,7	-0,4	9 242	8 588	-7,1	-654
-Textiles	0,7	82,6	67,5	-18,3	-0,1	1 495	1 292	-13,6	-203
-Other textile products	0,9	79,0	72,3	-8,5	-0,1	2 298	2 106	-8,4	-192
-Knitted, crocheted articles	0,2	103,6	106,8	3,1	0,0	409	409	0,0	0
-Wearing apparel	2,1	96,5	83,7	-13,3	-0,3	3 424	2 971	-13,2	-453
-Leather and leather products	0,6	77,5	84,7	9,3	0,0	893	1 043	16,8	150
-Footwear	0,4	91,8	92,1	0,3	0,0	723	766	5,9	43
Wood and wood products, paper, publishing and printing	10,2	92,8	89,1	-4,0	-0,4	25 059	24 683	-1,5	-376
-Sawmilling and planing of wood	0,7	76,3	81,4	6,7	0,0	1 535	1 702	10,9	167
-Products of wood	1,3	88,6	80,8	-8,8	-0,1	3 877	3 529	-9,0	-348
-Paper and paper products	3,8	104,2	104,5	0,3	0,0	11 323	11 369	0,4	46
-Publishing	1,9	91,8	78,2	-14,8	-0,3	3 417	3 110	-9,0	-307
-Printing, recorded media	2,5	82,8	80,0	-3,4	-0,1	4 907	4 972	1,3	65
Petroleum, chemical products, rubber and plastic products	22,1	102,6	106,2	3,5	0,9	63 456	66 026	4,1	2 570
-Coke, petroleum products and nuclear fuel	8,5	90,1	86,0	-4,6	-0,4	20 423	22 617	10,7	2 194
-Basic chemicals	4,5	107,1	113,5	6,0	0,3	14 231	12 946	-9,0	-1 285
-Other chemical products	5,3	109,1	111,0	1,7	0,1	15 619	15 490	-0,8	-129
-Rubber products	1,0	80,1	83,5	4,2	0,0	3 146	3 222	2,4	76
-Plastic products	2,7	129,9	156,6	20,6	0,8	10 037	11 751	17,1	1 714
Glass and non-metallic mineral products	4,8	92,2	84,8	-8,0	-0,4	8 528	8 265	-3,1	-263
-Glass and glass products	1,0	116,7	109,5	-6,2	-0,1	1 496	1 441	-3,7	-55
-Non-metallic mineral products	3,8	86,1	78,6	-8,7	-0,3	7 032	6 823	-3,0	-209
Basic iron and steel, non-ferrous metal products, metal products and machinery	22,9	80,4	88,5	10,1	2,0	56 027	57 646	2,9	1 619
-Basic iron and steel products	7,7	52,3	85,9	64,2	2,8	18 035	21 969	21,8	3 934
-Non-ferrous metal products	3,4	91,8	95,9	4,5	0,2	7 870	7 652	-2,8	-218
-Structural metal products	2,0	93,4	81,8	-12,4	-0,3	5 487	4 570	-16,7	-917
-Other fabricated metal products	3,8	107,9	98,3	-8,9	-0,4	9 420	9 178	-2,6	-242
-General purpose machinery	2,4	72,2	66,5	-7,9	-0,1	5 517	5 166	-6,4	-351
-Special purpose machinery	3,1	98,3	95,0	-3,4	-0,1	7 283	6 843	-6,0	-440
-Household appliances	0,6	102,1	93,6	-8,3	-0,1	2 416	2 268	-6,1	-148
Electrical machinery	2,5	121,0	121,4	0,3	0,0	9 314	9 551	2,5	237
Radio, television and communication apparatus and professional equipment	1,1	89,8	87,2	-2,9	0,0	3 320	3 284	-1,1	-36
-Radio, television and communication apparatus	0,4	97,8	90,3	-7,7	0,0	1 513	1 468	-3,0	-45
-Professional equipment	0,7	84,7	85,2	0,6	0,0	1 808	1 816	0,4	8
Motor vehicles, parts and accessories and other transport equipment	10,9	72,4	90,8	25,4	2,2	35 111	38 614	10,0	3 503
-Motor vehicles	4,9	67,4	78,2	16,0	0,6	18 100	19 822	9,5	1 722
-Bodies for motor vehicles, trailers and semi-trailers	0,5	100,0	104,9	4,9	0,0	1 528	1 537	0,6	9
-Parts and accessories	4,7	64,6	98,2	52,0	1,7	11 373	13 531	19,0	2 158
-Other transport equipment	0,9	123,8	112,8	-8,9	-0,1	4 111	3 723	-9,4	-388
Furniture and other manufacturing division	5,2	92,3	92,0	-0,3	0,0	13 176	13 434	2,0	258
-Furniture	1,3	78,2	76,7	-1,9	0,0	2 394	2 395	0,0	1
-Other manufacturing groups	3,9	97,0	97,1	0,1	0,0	10 782	11 040	2,4	258
Total	100,0	91,6	95,5	4,3	4,3	279 497	287 184	2,8	7 687

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 March 2010 was 90,3%. Improved response rate for February 2010 was 92,9%.
- 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 2010, 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 2010).

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 to 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	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 - 2010
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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Enquiries

Telephone number:	(012) 310 8249 (technical enquiries) (012) 310 8358 (orders) (012) 310 4883/4885/8018 (library)
Fax number:	(012) 310 8664 (technical enquiries)
Email address:	GerdaB@statssa.gov.za (technical enquiries) info@statssa.gov.za (user information services) magdaj@statssa.gov.za (orders)
Postal address:	Private Bag X44, Pretoria, 0001

Produced by Stats SA