

Manufacturing: production and sales

August 2003

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Key figures as at the end of August 2003

Actual estimates	August 2003	% change between August 2002 and August 2003	% change between July 2003 and August 2003	% change between June 2002 to August 2002 and June 2003 to August 2003	% change between January 2002 to August 2002 and January 2003 to August 2003
Physical volume of manufacturing production index (2000=100)	106,4	-4,9	-1,2	-2,8	-2,0
Total value of sales of manufactured products (R million)	51 418,4	-3,6	+0,1	-1,2	+2,0

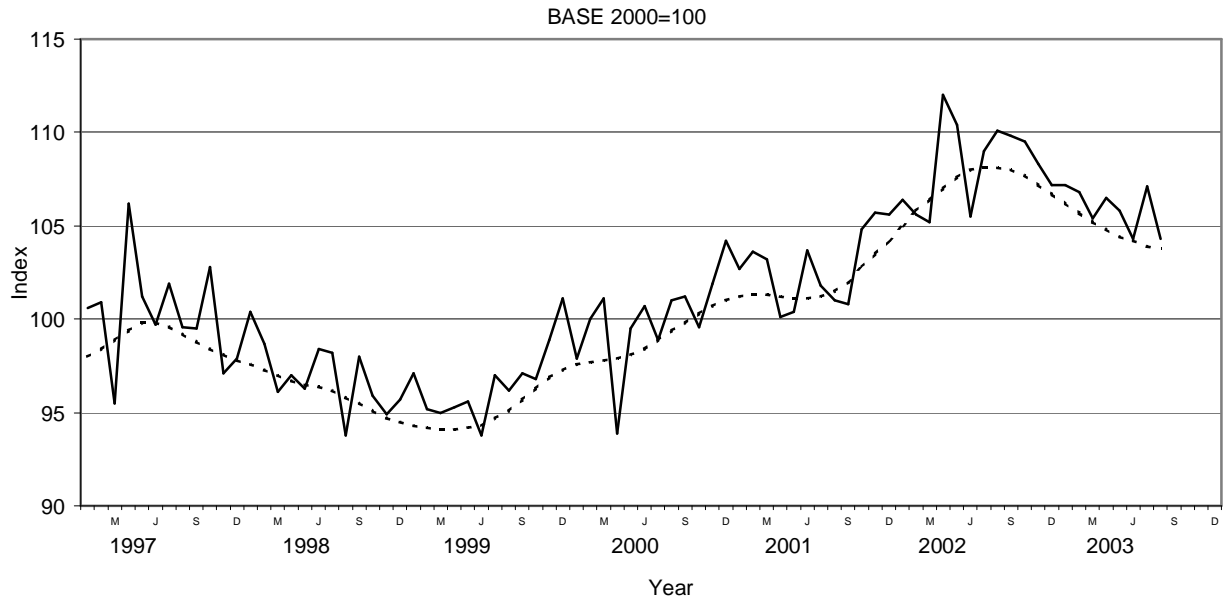
Seasonally adjusted estimates	August 2003	% change between August 2002 and August 2003	% change between July 2003 and August 2003	% change between March 2003 to May 2003 and June 2003 to August 2003
Physical volume of manufacturing production index (2000=100)	104,3	-4,8	-2,6	-0,6
Total value of sales of manufactured products (R million)	50 693,5	-3,6	-2,1	-0,2

Key findings as at the end of August 2003

Manufacturing production decreases

Manufacturing production for the three months ended August 2003 reflected a decrease of 0,6%, after seasonal adjustment, compared with the previous three months. Lower production was reported by 12 of the 27 manufacturing divisions. Furthermore, the manufacturing production for August 2003, after seasonal adjustment, reflected a decrease of 2,6% compared with July 2003. The actual manufacturing production for the first eight months of 2003 reflected a decrease of 2,0% compared with the first eight months of 2002.

The major contributor to the decrease of 0,6%, after seasonal adjustment, in the total manufacturing production was the basic iron and steel products division (contributing -1,0 percentage point to total manufacturing production), followed by the beverage, textile, 'other' non-metallic mineral products, fabricated metal products and 'other' manufacturing (each contributing -0,2 of a percentage point) divisions. However, these decreases were partially counteracted by large increases reported by the food and food products (contributing +0,4 of a percentage point), machinery and equipment (contributing +0,4 of a percentage point) and motor vehicles, trailers, parts and accessories (contributing +0,2 of a percentage point) divisions (see table A).

Figure 1 – Index of the physical volume of manufacturing production

Source: Stats SA

———— Seasonally adjusted - - - - - Trend cycle

Table A - Contribution of the production by the different manufacturing divisions to the total manufacturing production (Base 2000=100)

Manufacturing divisions	Percentage contribution to the total manufacturing production using the weights according to 1996 Census of Manufacturing	Average seasonally adjusted production index for the three months June 2003 to August 2003	Quarterly percentage change of June 2003 to August 2003 compared with the preceding three months	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and food products	10,7	102,7	+3,6	+0,4
Beverages	4,6	115,7	-4,6	-0,2
Total textiles	2,9	93,4	-4,8	-0,2
Total wearing apparel	3,6	98,9	+3,3	+0,1
Tanning and dressing of leather	0,4	98,3	+20,3	+0,0
Footwear	0,9	75,5	+8,5	+0,0
Wood and products of wood	1,9	107,2	-3,4	-0,1
Paper and paper products	5,3	98,4	+2,8	+0,1
Total publishing and printing	4,1	100,4	+1,2	+0,1
Coke and refined petroleum products	4,2	106,4	+1,6	+0,1
Basic chemicals	4,5	107,9	-0,6	-0,0
Other chemical products	6,2	105,1	+0,1	+0,0
Rubber products	1,4	100,1	+5,8	+0,1
Plastic products	3,1	119,9	-2,5	-0,1
Glass and glass products	1,0	119,9	+3,2	+0,0
Other non-metallic mineral products	3,5	96,0	-5,5	-0,2
Basic iron and steel products	7,6	98,7	-13,4	-1,0
Basic precious and non-ferrous metal products	3,2	99,0	-2,6	-0,1
Fabricated metal products	7,0	114,7	-3,1	-0,2
Total machinery and equipment	5,8	122,8	+6,7	+0,4
Electrical machinery, apparatus	3,4	104,2	-0,0	-0,0
Radio, television and communication apparatus	1,0	79,2	+2,7	+0,0
Professional equipment	0,5	113,4	-7,1	-0,0
Motor vehicles; trailers; parts and accessories	8,0	110,2	+2,6	+0,2
Other transport equipment	1,0	99,6	+5,4	+0,1
Furniture	1,6	105,3	+6,6	+0,1
Other manufacturing industries	2,6	94,2	-8,1	-0,2
Total	100,0	105,2	-0,6	-0,6

1/ The contribution is calculated by multiplying the quarterly percentage change of each manufacturing division with its corresponding weight in the base year, divided by 100.

SALES OF MANUFACTURED PRODUCTS DECREASE

The total value of sales of manufactured products at current prices for the three months ended August 2003 reflected a decrease of 0,2% (-R276 million), after seasonal adjustment, compared with the previous three months. Lower manufacturing sales were reported by 12 of the 27 manufacturing divisions during this period. Furthermore, the actual total value of sales of manufactured products at current prices for the three months ended August 2003 reflected a decrease of 1,2% (-R1 831 million) compared with the three months ended August 2002. Lower manufacturing sales were reported by 10 of the 27 manufacturing divisions. However, the actual value of sales of manufactured products at current prices for the first eight months of 2003 reflected an increase of 2,0% compared with the first eight months of 2002.

The decrease of 0,2% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended August 2003 compared with the previous three months was mainly due to large decreases reported by the coke and refined petroleum products (-14,6% or -R1 479 million) and basic precious and non-ferrous metal products (-9,5% or -R452 million) divisions (see table B).

Table B - Contribution of the manufacturing divisions to the total value of seasonally adjusted sales of manufactured products

Manufacturing divisions	Seasonally adjusted sales June 2003 to August 2003	Percentage change between March 2003 to May 2003 and June 2003 to August 2003	Difference in seasonally adjusted sales of manufacturing divisions between March 2003 to May 2003 and June 2003 to August 2003
	R'000		R'000
Food and food products	20 763 964	+0,8	166 780
Beverages	7 481 867	+0,5	37 137
Total textiles	3 063 918	-3,5	-111 299
Total wearing apparel	3 173 821	-0,1	-3 301
Tanning and dressing of leather	808 962	+11,0	80 113
Footwear	502 986	-0,1	-316
Wood and products of wood	3 361 647	-2,9	-99 177
Paper and paper products	7 387 383	+1,9	136 344
Total publishing and printing	3 899 213	+3,2	122 083
Coke and refined petroleum products	8 653 847	-14,6	-1 478 709
Basic chemicals	7 282 390	-3,0	-225 787
Other chemical products	9 087 710	+0,3	29 146
Rubber products	1 701 341	+2,8	45 843
Plastic products	3 919 924	-2,0	-80 220
Glass and glass products	859 570	+3,5	29 438
Other non-metallic mineral products	3 618 627	-2,4	-90 085
Basic iron and steel products	13 419 576	+1,6	212 804
Basic precious and non-ferrous metal products	4 319 839	-9,5	-451 690
Fabricated metal products	9 008 689	+1,7	148 026
Total machinery and equipment	7 187 209	+4,0	276 035
Electrical machinery, apparatus	4 324 965	+0,1	3 541
Radio, television and communication apparatus	1 099 732	-9,9	-121 137
Professional equipment	475 984	-13,5	-74 098
Motor vehicles; trailers; parts and accessories	20 033 634	+5,3	1 003 602
Other transport equipment	928 290	-1,6	-14 636
Furniture	1 894 891	+2,7	50 347
Other manufacturing industries	4 338 731	+3,2	133 120
Total	152 598 709	-0,2	-276 096

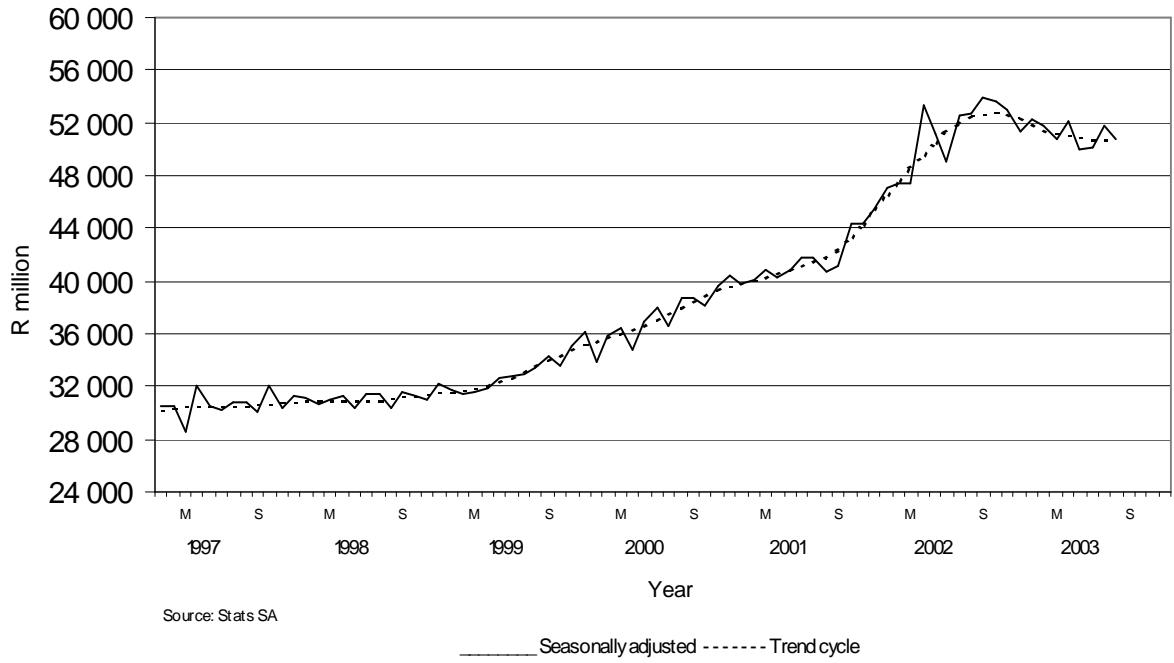
The major contributors to the decrease of 1,2% in the actual value of sales of manufactured products at current prices for the three months ended August 2003 compared with the three months ended August 2002 were the coke and refined petroleum products (-2,0 percentage points or -R3 169 million) and basic precious and non-ferrous metal products (-0,8 of a percentage point or -R1 200 million divisions). However, these decreases were partially counteracted by increases reported by the basic iron and steel products division (+0,6 of a percentage point or +R895 million), beverage (+0,3 of a percentage point or +R501 million), fabricated metal products (+0,3 of a percentage point or +R502 million) and total machinery and equipment (+0,3 of a percentage point or +R463 million), to the total actual value of sales of manufactured products at current prices for the three months ended August 2003 compared with the three months ended August 2002 (see table C).

Table C - Contribution of the manufacturing divisions to total value of sales of manufactured products

Manufacturing divisions	Percentage contribution of sales of manufactured products to total value of sales of manufactured products to August 2002	Percentage change between June 2002 to August 2002 and June 2003 to August 2003	Contribution (percentage points) to the percentage change in the total value of sales of manufactured products 1/	Difference in sales of manufacturing divisions between June 2003 to August 2003 and June 2003 to August 2003
				R '000
Food and food products	13,5	-1,4	-0,2	-287 960
Beverages	4,0	8,1	0,3	501 002
Total textiles	2,3	-9,6	-0,2	-343 385
Total wearing apparel	2,0	3,5	0,1	107 021
Tanning and dressing of leather	0,6	-7,5	-0,0	-64 885
Footwear	0,4	-4,9	-0,0	-26 995
Wood and products of wood	2,0	8,7	0,2	274 607
Paper and paper products	4,8	0,0	0,0	1 206
Total publishing and printing	2,2	10,6	0,2	366 615
Coke and refined petroleum products	7,8	-26,1	-2,0	-3 169 401
Basic chemicals	4,9	-6,4	-0,3	-487 560
Other chemical products	5,7	1,5	0,1	129 466
Rubber products	1,1	4,0	0,0	66 587
Plastic products	2,5	1,5	0,0	56 941
Glass and glass products	0,5	3,6	0,0	29 574
Other non-metallic mineral products	2,4	1,8	0,0	67 937
Basic iron and steel products	8,0	7,2	0,6	895 151
Basic precious and non-ferrous metal products	3,6	-21,7	-0,8	-1 199 916
Fabricated metal products	5,6	5,7	0,3	502 388
Total machinery and equipment	4,6	6,5	0,3	463 122
Electrical machinery, apparatus	2,9	0,2	0,0	8 862
Radio, television and communication apparatus	0,7	2,5	0,0	26 970
Professional equipment	0,3	-7,8	-0,0	-41 867
Motor vehicles; trailers; parts and accessories	13,1	1,8	0,2	356 948
Other transport equipment	0,6	-6,1	-0,0	-61 339
Furniture	1,2	7,6	0,1	135 841
Other manufacturing industries	2,9	-3,1	-0,1	-138 340
Total	100,0	-1,2	-1,2	-1 831 410

1/ The contribution (percentage points) is calculated by multiplying the percentage change of each manufacturing division with the percentage contribution of the same division during corresponding period, divided by 100.

Figure 2 - Total value of sales of manufactured products at current prices



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Notes

Forthcoming issues	Issue	Expected release date
	September 2003	11 November 2003
	October 2003	9 December 2003
	November 2003	13 January 2004
	December 2003	10 February 2004
Purpose of the survey	The monthly Manufacturing Production and Sales survey is a survey covering a sample of private establishments, public corporations and government establishments operating in the manufacturing industry in the South African economy. The results of this survey are used to calculate physical volume of manufacturing production indices in order to estimate the Gross Domestic Product (GDP) to monitor and develop government policy.	
Response rates	The response rate for the survey on manufacturing production and sales for August 2003 was 77,5%.	

Table 1 - Indices of the physical volume of manufacturing production: Total

Base 2000 = 100							
Month	1997	1998	1999	2000	2001	2002	2003
Actual indices							
J	85,3	85,8	83,6	85,2	89,5	92,7	93,6
F	99,1	97,2	93,7	98,7	102,0	104,5	105,4
M	98,4	98,9	97,9	104,8	107,3	109,6	109,3
A	100,9	92,3	90,7	89,0	94,6	105,3	100,6
M	101,7	96,8	95,9	99,9	100,8	110,7	106,0
J	100,9	99,6	94,8	102,1	105,0	106,7	105,1*
J	103,9	99,9	98,3	100,1	102,7	109,9	107,7
A	101,9	95,6	97,7	102,5	102,6	111,9	106,4 1/
S	104,3	102,3	100,9	104,8	104,0	113,1	
O	115,2	106,9	107,3	109,8	115,5	120,6	
N	107,9	105,5	109,9	113,6	118,1	121,1	
D	83,5	81,8	86,3	89,5	91,3	92,6	
Year	100,3	96,9	96,4	100,0	102,8	108,2	
Seasonally adjusted indices							
J	100,6	100,4	97,1	97,8	102,3	105,9	107,2
F	100,9	98,7	95,2	100,1	103,6	105,8	106,8
M	95,5	96,1	95,1	101,5	103,6	105,6	105,4
A	106,1	96,9	95,2	93,7	99,9	111,6	106,5
M	101,2	96,3	95,6	99,6	100,4	110,3	105,8
J	99,7	98,5	93,9	101,1	104,1	105,9	104,3
J	101,9	98,2	97,0	98,9	101,7	108,8	107,1
A	99,5	93,8	96,2	100,9	100,8	109,6	104,3
S	99,5	98,0	97,1	101,1	100,8	109,8	
O	102,8	95,9	96,8	99,6	104,9	109,6	
N	97,1	94,9	98,8	101,8	105,7	108,3	
D	97,9	95,7	101,0	104,0	105,5	107,2	

* Revised

1/ Preliminary

Table 2 - Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups

Base 2000 = 100

Manufacturing divisions and major groups	Weights	Year 2002	Actual indices			Seasonally adjusted indices		
			August 1/	July	August	August	July	August
			2002	2003		2002	2003	
Food and food products	10,7	101,6	98,2	108,4	95,0	100,1	111,3	97,0
Meat, fish, fruit etc.	2,8	113,1	109,9	112,9	111,0	114,8	120,7	116,4
Dairy products	1,4	100,7	103,4	93,1	96,4	98,7	100,2	91,9
Grain mill products	2,1	113,6	112,7	105,8	104,7	111,6	105,4	103,8
Other food products	4,4	88,7	82,3	111,4	79,6	85,6	111,5	83,0
Beverages	4,6	112,4	110,4	96,6	112,9	118,6	118,9	120,9
Total textiles	2,9	111,6	125,3	99,9	99,4	117,1	95,1	92,9
Textiles	1,7	110,4	124,4	98,3	93,9	114,3	91,6	86,1
Other textile products	1,2	113,3	126,5	102,1	107,2	121,1	100,2	102,5
Total wearing apparel	3,6	101,9	110,9	100,1	103,8	104,0	101,3	97,0
Knitted, crocheted articles	0,6	111,2	117,1	101,0	102,1	112,8	99,3	98,3
Wearing apparel	3,0	100,0	109,7	99,9	104,1	102,2	101,7	96,8
Tanning and dressing of leather	0,4	96,9	106,5	102,1	99,2	109,7	99,5	102,6
Footwear	0,9	82,0	87,8	87,0	81,9	80,4	83,2	75,0
Wood and products of wood	1,9	110,6	116,0	109,0	110,4	112,2	108,5	106,6
Sawmilling and planing of wood	0,8	108,3	112,8	116,7	117,3	106,3	111,8	110,8
Products of wood	1,2	112,1	118,1	104,0	105,8	116,1	106,3	103,8
Paper and paper products	5,3	103,1	99,6	97,0	94,0	101,9	97,1	96,4
Total publishing and printing	4,1	94,8	96,3	94,8	105,8	94,2	98,3	103,7
Publishing	1,5	91,3	89,1	85,6	104,7	88,4	93,7	103,9
Printing, recorded media	2,6	96,8	100,3	100,0	106,4	97,5	100,9	103,6
Coke and refined petroleum products	4,2	102,5	94,9	112,2	105,2	95,4	111,3	106,0
Basic chemicals	4,5	119,1	118,0	102,3	108,3	119,3	105,1	109,6
Other chemical products	6,2	111,5	110,7	108,3	102,3	111,8	107,5	103,3
Rubber products	1,4	109,9	106,5	101,5	99,9	104,5	96,3	98,5
Plastic products	3,1	124,3	130,0	123,4	123,5	127,5	120,5	121,3
Glass and glass products	1,0	118,9	123,0	131,0	124,4	117,0	126,0	119,2
Other non-metallic mineral products	3,5	104,5	109,7	102,8	93,6	104,1	98,9	88,9
Basic iron and steel products	7,6	106,0	119,2	103,3	103,9	113,2	97,5	98,2
Basic precious and non-ferrous metal products	3,2	100,8	105,8	102,8	103,7	101,9	99,3	99,6
Fabricated metal products	7,0	119,6	135,2	121,3	118,0	126,1	118,3	109,8
Structural metal products	2,4	116,8	134,5	111,6	119,0	122,8	109,9	107,6
Other fabricated metal products	4,6	121,1	135,5	126,3	117,5	127,7	122,7	110,9
Total machinery and equipment	5,8	121,3	132,4	127,2	132,3	124,8	122,8	123,7
General purpose machinery	2,5	109,3	109,8	107,4	111,4	103,8	104,0	105,0
Special purpose machinery	2,9	133,4	158,5	147,8	151,8	149,0	142,6	141,2
Household appliances	0,4	109,4	84,5	101,0	121,4	80,2	96,3	114,9
Electrical machinery, apparatus	3,4	103,7	109,6	104,3	107,4	108,0	103,9	105,6
Radio, television and communication apparatus	1,0	76,8	76,7	73,5	59,0	75,1	77,5	57,7
Professional equipment	0,5	120,8	127,0	115,8	109,3	124,5	109,4	107,2
Motor vehicles; trailers; parts and accessories	8,0	108,8	112,0	117,3	117,9	108,8	111,5	114,5
Motor vehicles	4,5	105,5	110,8	114,0	113,8	105,6	105,1	108,2
Bodies for motor vehicles; trailers and semi-trailers	0,5	102,8	112,7	121,9	100,8	118,9	126,0	108,4
Parts and accessories	3,0	114,9	113,8	121,5	127,1	111,9	118,6	125,2
Other transport equipment	1,0	118,2	94,8	101,5	94,0	102,2	100,1	101,9
Furniture	1,6	107,3	108,9	108,7	108,4	106,8	108,7	106,7
Other manufacturing divisions	2,6	102,9	112,3	104,4	93,2	108,5	96,5	90,8
Total	100,0	108,2	111,9	107,7	106,4	109,6	107,1	104,3

* Revised
1/ Preliminary

Table 3 - Value of sales of the manufacturing industry: Total (R'000)

Month	1997	1998	1999	2000	2001	2002	2003
Actual values							
J	25 254 480	25 913 926	26 362 762	28 647 234	33 988 164	40 272 591	44 433 428*
F	29 866 793	29 901 544	30 551 283	34 961 840	39 187 078	46 539 563	50 778 850*
M	29 866 272	32 190 538	32 737 212	38 039 203	42 683 525	49 227 081	52 640 867*
A	30 438 604	29 758 879	30 447 208	32 651 220	37 828 090	49 732 137	49 069 706*
M	30 626 091	30 352 835	32 680 898	37 038 716	41 146 142	51 651 087	50 113 702*
J	30 575 542	31 723 893	33 054 424	38 710 074	42 743 527	50 259 292	50 849 535*
J	31 169 707	31 732 667	33 262 293	36 234 329	41 174 318	51 841 409	51 366 174
A	31 400 042	30 810 619	33 586 437	38 992 758	41 164 534	53 364 782	51 418 364 1/
S	31 344 644	32 896 327	35 703 435	39 916 972	42 295 572	55 271 662	
O	35 902 602	34 970 472	37 386 689	41 775 594	48 601 886	58 793 903	
N	33 709 581	34 300 610	38 843 424	43 881 507	49 478 825	59 064 339	
D	28 128 922	29 016 347	32 992 528	37 256 576	42 207 610	47 332 030	
Year	368 283 280	373 568 657	397 608 593	448 106 023	502 499 271	613 349 876	
Seasonally adjusted values							
J	30 490 446	31 041 576	31 389 205	33 826 779	39 702 856	47 134 470	52 270 477
F	30 504 360	30 599 432	31 323 511	35 765 155	40 057 287	47 580 659	51 827 023
M	28 716 315	30 977 314	31 560 333	36 571 904	41 126 353	47 519 387	50 799 959
A	32 088 653	31 472 320	32 269 568	34 664 511	40 165 588	52 971 934	52 140 867
M	30 712 205	30 390 047	32 710 519	36 985 762	41 008 571	51 477 622	49 933 979
J	30 218 647	31 250 611	32 551 443	38 020 647	41 993 293	49 460 899	50 150 344
J	31 163 846	31 842 575	33 478 594	36 517 652	41 447 940	52 102 851	51 754 915
A	30 756 415	30 353 150	33 202 627	38 549 821	40 589 009	52 569 801	50 693 451
S	30 168 808	31 775 140	34 630 069	38 732 876	41 203 096	53 934 255	
O	32 171 084	31 389 457	33 756 919	38 004 417	44 311 310	53 695 719	
N	30 308 841	30 786 081	34 819 945	39 455 380	44 345 653	52 992 291	
D	30 844 106	31 473 839	35 826 422	40 355 008	45 422 547	51 292 797	

* Revised

1/ Preliminary

Table 4 - Value of sales of manufactured products according to manufacturing divisions and major groups (R'000)

Manufacturing divisions and major groups	Year	Actual values			Seasonally adjusted values				
		August	July	August 1/	August	July	August		
		2002		2003		2002		2003	
		2002	2003	2002	2003	2002	2003	2002	2003
Food and food products	82 673 880	6 991 745	6 886 548	6 893 977	6 974 318	6 976 566	6 879 725		
Meat, fish, fruit etc.	26 328 187	2 293 696	2 253 855	2 210 433	2 318 015	2 294 850	2 237 503		
Dairy products	9 221 497	790 383	817 146	786 521	777 975	856 132	771 969		
Grain mill products	24 465 379	2 099 991	1 919 426	1 874 213	2 093 699	1 914 519	1 873 286		
Other food products	22 658 817	1 807 675	1 896 121	2 022 810	1 784 629	1 911 065	1 996 967		
Beverages	26 913 178	2 315 105	2 225 898	2 362 136	2 426 203	2 621 436	2 473 526		
Total textiles	13 425 652	1 246 305	1 081 805	1 095 010	1 159 417	1 040 643	1 017 622		
Textiles	8 654 162	817 824	700 680	682 268	753 352	659 845	625 248		
Other textile products	4 771 490	428 481	381 125	412 742	406 065	380 798	392 374		
Total wearing apparel	12 404 596	1 124 693	1 067 581	1 146 951	1 062 620	1 102 503	1 080 624		
Knitted, crocheted articles	2 200 044	192 788	186 394	201 533	185 785	183 144	193 917		
Wearing apparel	10 204 552	931 905	881 187	945 418	876 835	919 359	886 707		
Tanning and dressing of leather	3 310 031	309 340	259 555	273 890	320 081	270 030	282 443		
Footwear	2 185 578	204 589	179 589	191 837	184 997	167 521	173 678		
Wood and products of wood	12 676 226	1 139 191	1 137 474	1 115 545	1 125 221	1 099 022	1 101 501		
Sawmilling and planing of wood	3 496 221	309 116	334 995	332 748	298 966	321 325	323 063		
Products of wood	9 180 005	830 075	802 479	782 797	826 255	777 697	778 438		
Paper and paper products	29 798 377	2 407 137	2 395 704	2 368 551	2 491 729	2 424 202	2 442 934		
Total publishing and printing	13 902 770	1 211 136	1 217 455	1 367 843	1 190 900	1 273 485	1 345 180		
Publishing	5 309 542	439 244	431 606	521 767	435 485	461 473	518 035		
Printing, recorded media	8 593 228	771 892	785 849	846 076	755 415	812 012	827 145		
Coke and refined petroleum products	45 408 316	4 152 296	3 048 663	3 016 320	3 859 993	2 951 868	2 815 484		
Basic chemicals	31 234 852	2 597 711	2 459 272	2 391 649	2 664 270	2 487 595	2 459 395		
Other chemical products	35 440 043	3 069 996	3 056 241	3 004 733	3 074 723	3 062 850	3 010 976		
Rubber products	6 678 589	555 758	587 941	565 179	548 610	557 375	562 111		
Plastic products	15 136 631	1 357 172	1 321 322	1 360 820	1 316 106	1 318 657	1 318 569		
Glass and glass products	3 291 669	284 780	299 176	288 389	282 837	292 770	287 046		
Other non-metallic mineral products	14 496 579	1 317 055	1 333 295	1 245 191	1 225 884	1 273 804	1 158 384		
Basic iron and steel products	48 571 369	4 534 793	4 356 273	4 327 787	4 518 896	4 635 525	4 292 418		
Basic precious and non-ferrous metal products	21 725 348	1 751 845	1 425 262	1 341 132	1 786 190	1 499 442	1 379 447		
Fabricated metal products	34 231 948	3 172 339	3 100 608	3 133 062	2 950 200	3 065 169	2 907 124		
Structural metal products	10 580 226	1 044 516	913 022	1 036 996	940 492	916 137	926 371		
Other fabricated metal product	23 651 722	2 127 823	2 187 586	2 096 066	2 009 708	2 149 032	1 980 753		
Total machinery and equipment	26 790 603	2 300 256	2 465 793	2 515 081	2 213 514	2 377 433	2 408 835		
General purpose machinery	11 502 057	906 312	1 027 452	989 179	895 991	989 693	986 623		
Special purpose machinery	12 556 524	1 217 988	1 217 692	1 259 981	1 155 956	1 168 975	1 180 293		
Household appliances	2 732 022	175 956	220 649	265 921	161 567	218 766	241 919		
Electrical machinery, apparatus	16 926 563	1 502 357	1 449 825	1 483 529	1 465 859	1 445 398	1 449 146		
Radio, television and communication apparatus	4 503 712	358 862	306 737	322 326	349 363	367 429	318 065		
Professional equipment	2 028 861	183 713	161 267	152 580	179 337	161 368	148 847		
Motor vehicles; trailers; parts and accessories	80 135 661	6 800 885	7 019 766	7 095 169	6 748 176	6 775 651	7 038 066		
Motor vehicles	56 136 383	4 780 855	4 991 237	5 033 101	4 716 268	4 811 004	4 962 840		
Bodies for motor vehicles; trailers and semi-trailers	2 115 216	176 032	192 594	194 712	180 583	188 010	202 557		
Parts and accessories	21 884 062	1 843 198	1 835 935	1 867 356	1 851 325	1 776 637	1 872 670		
Other transport equipment	4 370 041	296 191	324 795	301 338	302 199	316 852	312 124		
Furniture	7 339 791	646 284	654 895	644 776	617 851	650 287	615 631		
Other manufacturing divisions	17 749 012	1 534 048	1 543 434	1 413 563	1 530 309	1 540 033	1 414 550		
Total	613 349 876	53 364 782	51 366 174	51 418 364	52 569 801	51 754 915	50 693 451		

* Revised

1/ Preliminary

Table 5 - Value of unfilled orders according to selected manufacturing subgroups (R'000)

Selected manufacturing subgroups	Actual values			Seasonally adjusted values		
	August	July	August 1/	August	July	August
	2002	2003		2002	2003	
Spinning, weaving and finishing of textiles	336 484	296 669	265 066	336 574	289 999	263 995
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	36 047	50 642	46 191	37 835	55 981	48 860
Other textile articles	79 874	103 443	87 678	84 339	110 513	92 002
Knitted and crocheted fabrics and articles	131 496	123 896	122 282	141 167	127 414	131 735
Wearing apparel	836 103	622 974	624 136	837 655	645 721	628 609
Sawmilling and preserving of timber	14 613	17 730	14 843	14 921	17 779	15 207
Veneer sheets, plywood, laminboard, etc.	31 075	23 421	23 416	30 375	24 661	22 781
Builders' carpentry and joinery	45 947	49 676	47 677	43 016	47 264	44 495
Pulp, paper and paperboard	301 434	306 892	236 897	284 712	259 292	224 357
Corrugated paper and paperboard and containers	385 922	379 956	391 559	368 630	368 682	371 278
Paints, varnishes and coatings	17 240	23 906	23 756	18 846	26 738	26 634
Basic iron and steel products	5 172 751	4 833 828	5 191 724	4 982 751	4 647 813	4 979 743
Steel pipe and tube mills	558 978	320 589	309 692	522 331	285 952	288 570
Basic precious and non-ferrous metal products	1 763 020	1 424 869	1 371 131	1 745 706	1 374 381	1 359 471
Metal structures, parts	1 561 942	1 020 119	1 019 230	1 459 083	958 797	947 803
Cutlery, hand tools and general hardware	12 553	14 222	18 442	14 737	17 826	21 616
Metal containers, e.g. cans and tins	70 424	68 460	69 142	70 009	69 181	68 392
Cables, wire products, springs	60 858	79 617	77 830	61 937	75 884	79 334
Metal fasteners	84 669	92 927	90 292	84 094	100 378	89 059
All other metal products	871 881	994 565	1 023 964	871 538	996 550	1 026 826
Domestic appliances	29 323	26 558	28 042	28 555	25 884	27 223
Electric motors, generators and transformers	552 883	538 239	545 954	512 295	513 407	502 760
Insulated wire and cables	410 343	325 192	313 510	394 148	304 598	298 590
Accumulators, primary cells and primary batteries	5 344	3 487	3 487	5 868	3 613	3 833
Television, radio and communication apparatus	2 213 205	2 204 554	2 210 805	2 154 112	2 059 959	2 167 446
Motor vehicles	2 640 345	3 957 087	3 970 510	2 684 884	4 064 319	4 003 450
Parts and accessories for motor vehicles	617 252	323 392	349 039	520 691	280 619	293 806
Furniture	325 698	195 212	219 042	324 621	221 524	217 771

* Revised

Additional information

Explanatory notes

- | | | |
|--------------------------------------|----|--|
| Introduction | 1 | Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry covering private manufacturing establishments, public corporations and government establishments. This statistical release contains historical information regarding indices of the physical volume of manufacturing production, the total value of sales of manufactured products and unfilled orders, according to manufacturing divisions and major groups on a monthly basis. |
| | 2 | In accordance with international practice, the indices have to be re-based every five years to a new base year. The indices in this statistical release have been calculated on the basis of 2000=100. Both actual and seasonally adjusted figures are presented. |
| | 3 | In order to improve timeliness, some information for the current month (August 2003) have been estimated due to late response. These estimates will be revised in future statistical release(s) as soon as more up-to-date information is available. |
| Scope of the survey | 4 | This survey covers manufacturing establishments conducting activities regarding - <ul style="list-style-type: none"> • the manufacturing, processing, making or packing of products; • the slaughtering of animals, including poultry; and • installation, assembly, completion, repair and related work. |
| Classification | 5 | The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities (SIC)</i> , Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities (ISIC)</i> with suitable adaptations for local conditions. Statistics in this publication are presented at SIC division and major group level. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment . |
| Statistical unit | 6 | The basic statistical unit for the collection of information is the manufacturing establishment. An establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (see paragraph 5). |
| Weighting | 7 | A weight is calculated for every major group according to the value added of the relevant major group compared with the value added of the total manufacturing industry based on the 1991, 1993 and 1996 Censuses of Manufacturing. Weights between census years are fixed and are based on the results of the most recent Census of Manufacturing. The production indices of all the major groups are multiplied by the applicable weights and aggregated to reflect the total physical volume of manufacturing production index (see table E for the fixed weights which were used for the three periods 1990 to 1992, 1993 to 1995 and 1996 to 2003). |
| Re-basing | 8 | In accordance with international practice, the indices have to be re-based every five years to a new base year. The indices in this statistical release have been calculated on the basis of 2000=100. The first results on this basis were published in the December 2002 statistical release. Both actual and seasonally adjusted figures are presented. |
| Survey methodology and design | 9 | The calculation of the monthly production indices is based on the value of products and articles manufactured, after the effect of price changes has been eliminated through deflation by using appropriate sub-indices of the Production Price Index (PPI). The value of the manufactured products is obtained from a monthly survey of manufacturing establishments in the private and public sectors. |
| | 10 | The survey is collected by mail each month from a sample of approximately 2 400 manufacturing establishments. |

- 11 The above-mentioned measurement method in paragraph 9 was followed in 36 of the 45 major groups. On account of certain considerations more appropriate indicators were used for the nine remaining major groups, namely grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, motor vehicles, bodies for motor vehicles and parts and accessories for motor vehicles and other transport equipment. The volume indices for the major groups grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, motor vehicles, bodies for motor vehicles and parts and accessories for motor vehicles and other transport equipment are calculated on the basis of physical quantities. This method based on physical quantities is applied by other international statistical agencies for petroleum products due to the results being more satisfactory (mainly due to these commodities being relatively homogeneous and the nature of the industry). For publication purposes, the major group tobacco products is included under 'Other manufacturing industries'.

Sample design

- 12 The 1988 Census of Manufacturing provided the sampling frame for the selection of the monthly sample regarding manufacturing production and sales which was implemented as from January 1995. A stratified systematic sample design based on gross output was used. All statistical units were stratified by type of economic activity according to the *Standard Industrial Classification of all Economic Activities (SIC)* and measure of size, where measure of size was the total manufacturing gross output of the establishment. All large establishments (size category one cases) are completely enumerated. A sample was drawn from medium and small size establishments by systematically selecting establishments with equal probability.

Benchmarking

- 13 The index of physical volume of manufacturing production as well as the total value of sales of manufactured products should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities as measured by the monthly Manufacturing Production and Sales survey is based on information received from a sample of manufacturing establishments which is weighted according to the original sample design in order to represent the population of manufacturing establishments. It is necessary to adjust the level of activities as measured by the monthly survey to the level of activities as measured periodically by the Census of Manufacturing. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking. The results, due to benchmarking, were published in statistical releases P3041.3 (entitled *Manufacturing statistics: Indices of the physical volume of manufacturing production*, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled *Manufacturing statistics: Value of sales, January 1990 to September 1999*) on 8 December 1999.
- 14 The results of the 1991, 1993 and 1996 Censuses of Manufacturing and information obtained from the former TBVC states were used to adjust the level of the manufacturing production indices and the value of sales of manufactured products. The total value of output of the manufacturing major groups (which represents the total value of work done by the establishments in these major groups) as obtained from the manufacturing censuses, was deflated with appropriate sub-indices of the Production Price Index in order to calculate the real output. The latter served as benchmarks to verify or adjust the level of the monthly physical volume of manufacturing production indices. The level adjustments were done on the volume indices for January of the relevant census year (e.g. the 1996 census year covers the period 1 July 1995 to 30 June 1996 and therefore the benchmarking was done using the index of January 1996 as reference point). The motor vehicle major group is the only exception where the financial year for most of the establishments covered the period 1 January 1995 to 31 December 1995. The benchmarking was done using the physical volume of manufacturing production index for July 1995 as reference point.

- Production index for the total manufacturing industry** **15** In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined as follows:
- A weight is calculated for every major group according to the value added of the relevant major group compared with the value added of the total manufacturing industry based on the 1991, 1993 and 1996 Censuses of Manufacturing. Weights between census years are fixed and are based on the results of the most recent Census of Manufacturing. The production indices of all the major groups are multiplied by the applicable weights and aggregated to reflect the total physical volume of manufacturing production index.
- Seasonal adjustment** **16** Seasonally adjusted estimates of all major groups are generated each month, using the X-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 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. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.
- Trend cycle** **17** The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.
- Reliability of estimates** **18** Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.
- Historical data** **19** More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups for the period January 1990 to November 2002 is available in statistical release P3041.3 (entitled *Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002*).
- 20** More comprehensive detail on the method of calculation and historical data in respect of the value of sales for the period January 1990 to September 1999 was published on 8 December 1999 in statistical release P3041.4.
- Related publications** **21** Users may also wish to refer to the following publications which are available from Stats SA -
- P3041.3: *Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002.*
 - P3041.4: *Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.*
 - *Bulletin of Statistics.*
 - *SA Statistics.*
 - P0441: *Gross Domestic Product.*

- Unpublished statistics** **22** In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as a computer printout, diskette or CD. Generally a charge is made for providing unpublished statistics.
- Rounding-off of figures** **23** The figures in the tables have, where necessary, been rounded off to the nearest final digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.
- Pre-release policy** **25** Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za.

Symbols and abbreviations

GDP	Gross Domestic Product
ISIC	International Standard Classification of all Economic Activities
PPI	Production Price Index
SIC	Standard Industrial Classification of all Economic Activities
SNA	System of National Accounts
Stats SA	Statistics South Africa
TBVC states	Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states
1/	Preliminary figures
*	Revised figures

Glossary

Enterprise	An enterprise is a legal entity consisting of one or more establishments. The establishments need not necessarily all be manufacturing establishments, but some may be classifiable as other industries of the economy, such as wholesale trade, retail trade, motor trade and construction.
Establishment	An establishment is defined as an enterprise, or part of an enterprise, that is situated at a single location and in which only a single (non-ancillary) productive activity is carried out or in which the principal productive activity accounts for most of the value added.
Index of physical volume of manufacturing production	The index of physical volume of manufacturing production or 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 2000. The production in the base period is set at 100.
Industry	An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the System of National Accounts (SNA) in the same way as in the Standard Industrial Classification of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC).
Intercensal period	Intercensal period is the period between January of the one census year and January of the next census year.
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. <p>Output includes -</p> <ul style="list-style-type: none"> • sales and transfers-out of own manufactures, factory waste and stocks of factored goods; • 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.

Weight

The weight of a major group is the ratio of the value added of a major group (i.e. output of a major group minus intermediate consumption) to the total value added of the manufacturing industry. The weight of a major group reflects the importance of the major group in the total manufacturing industry. The weights change over time due to quality changes, changes in relative prices, and changes in preference, etc. New weights need to be calculated from time to time.

Table E - Weights and the average indices of physical volume of manufacturing production according to manufacturing divisions and major groups before re-basing

Manufacturing divisions and major groups	Weights			Average indices for the year 2000 before re-basing
	1990-1992	1993-1995	1996-2003	
Food and food products	10,97	12,33	10,71	99,1
Meat, fish, fruit etc.	2,93	3,20	2,83	111,7
Dairy products	1,40	1,68	1,36	89,4
Grain mill products	2,13	2,80	2,10	91,3
Other food products	4,52	4,65	4,41	97,6
Beverages	4,83	5,26	4,60	92,6
Total textiles	3,33	3,33	2,88	93,5
Textiles	2,09	2,03	1,69	84,6
Other textile products	1,24	1,30	1,19	106,2
Total wearing apparel	3,94	3,81	3,60	82,8
Knitted, crocheted articles	0,67	0,64	0,60	73,9
Wearing apparel	3,27	3,17	3,00	84,5
Tanning and dressing of leather	0,41	0,34	0,41	125,2
Footwear	1,15	1,10	0,93	65,6
Wood and products of wood	1,96	1,81	1,95	119,3
Sawmilling and planning of wood	0,98	0,82	0,77	104,8
Products of wood	0,97	0,99	1,17	128,8
Paper and paper products	4,58	4,73	5,32	105,3
Total publishing and printing	3,57	3,95	4,11	87,8
Publishing	1,15	1,41	1,48	97,8
Printing, recorded media	2,42	2,54	2,63	82,3
Coke and refined petroleum products	6,45	6,41	4,17	104,5
Basic chemicals	4,57	3,19	4,47	132,0
Other chemical products	5,97	6,61	6,17	101,8
Rubber products	1,59	1,52	1,36	98,7
Plastic products	2,58	2,85	3,08	89,7
Glass and glass products	1,15	0,99	1,00	88,5
Other non-metallic mineral products	3,67	3,58	3,50	97,6
Basic iron and steel products	6,90	6,49	7,56	116,3
Basic precious and non-ferrous metal products	2,15	2,19	3,25	175,6
Fabricated metal products	7,53	6,84	7,03	103,4
Structural metal products	2,84	2,04	2,39	90,5
Other fabricated metal products	4,69	4,80	4,65	110,0
Total machinery and equipment	6,31	6,06	5,78	99,7
General purpose machinery	2,58	2,59	2,50	110,6
Special purpose machinery	3,14	2,82	2,89	87,8
Household appliances	0,60	0,65	0,39	117,0
Electrical machinery, apparatus	3,36	3,49	3,45	102,1
Electric motors	0,31	0,37	0,57	106,9
Electricity distribution	0,32	0,46	0,52	135,2
Insulated wire and cables	0,71	0,79	0,77	91,1
Accumulators	0,43	0,47	0,33	82,3
Electric lamps	0,30	0,25	0,22	90,5
Other electrical equipment	1,28	1,15	1,04	99,9
Radio, television and communication apparatus	1,59	1,20	0,97	123,8
Professional equipment	0,41	0,54	0,51	80,9
Motor vehicles; trailers; parts and accessories	6,40	6,77	8,05	119,6
Motor vehicles	3,30	3,62	4,50	114,9
Bodies for motor vehicles; trailers and semi-trailers	0,61	0,52	0,55	63,3
Parts and accessories	2,49	2,62	3,00	137,0
Other transport equipment	1,16	1,10	1,01	118,3
Furniture	1,69	1,62	1,56	98,9
Other manufacturing divisions	1,79	1,88	2,58	111,5
TOTAL	100,0	100,0	100,0	106,0

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