

# P3041.2

## Manufacturing: Production and sales

April 1998

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### MANUFACTURING PRODUCTION LOWER

*Total manufacturing production for the three months up to April 1998 shows a decrease of 1,3% after seasonal adjustment compared with the previous three months. Lower production was reported in 15 of the 27 manufacturing divisions. This was attributed by most manufacturers to a decrease in demand for manufactured products.*

The major contributors to the decrease of 1,3% were the food (-0,7 of a percentage point), the clothing (-0,4 of a percentage point), the machinery (-0,4 of a percentage point) and the electrical machinery (-0,3 of a percentage point) divisions.

The total value of sales of manufactured products for the three months up to March 1998 shows a decrease of 1,0% (-R946 million) after seasonal adjustment compared with the previous three months. The largest decrease was recorded by the food division (-5,8% or R836 million).

### NOTES

1. This statistical release shows the indices of the physical volume of manufacturing production and the value of sales and unfilled orders, **after benchmarking**, according to manufacturing divisions. Furthermore, in accordance with international practice, the indices were recalculated on the basis of 1995=100. Both actual and seasonally adjusted figures are shown. **The former TBVC states are included.**

### 2. New weights for production indices

An updated weighting system for the production indices is being used (see table 2). The weighting factors for the combining of the production indices for the manufacturing divisions to calculate the total manufacturing index were calculated on the basis of the net output data obtained from the 1993 Manufacturing Census.

In order to improve timeliness, some information for the current month may have been estimated due to late response. These estimates will be revised in the next issue(s) as soon as better information is available.

### 3. Standard Industrial Classification

The industrial classification of this statistical release is based on the **Standard Industrial Classification of all Economic Activities (SIC)**, Fifth edition 1993. The manufacturing division classification of this edition differs in some cases from the manufacturing major group classification of the fourth edition that was used for this statistical release up to July 1997. The above-mentioned classification is obtainable from the CSS, free of charge.

Although the implementation of the new SIC had a minimal effect on the production and sales of most groups, two reclassifications of subgroups need to be mentioned, viz.

- Metal furniture which was previously included in the major group Metal Products, is included in the division Furniture and
- Knitted and crocheted fabrics and articles which was previously included in the major group Textiles is included in the division Wearing Apparel.

4. 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 sample survey of manufacturing establishments in the private and public sectors.

5. **The results of the 1991 and 1993 Manufacturing Censuses were used to adjust the level of the indices and the value of sales.** This process is known as benchmarking. The total value of gross output of the manufacturing major groups (which represents the total value of work done by the establishments in these groups) as obtained from the respective manufacturing censuses, was deflated with appropriate subindices of the Production Price Index in order to calculate the real gross output. The latter served as benchmarks to verify or adjust the level of the monthly volume indices. The level adjustments were done on the volume indices for January of the relevant census year (e.g. the 1993 census year covers the period 1 July 1992 to 30 June 1993 and therefore the benchmarking was done using the index of January 1993 as reference point).

6. The 1988 Manufacturing Census provided the framework for the selection of a revised sample implemented as from January 1995. A stratified systematic sample design based on gross output was used. Establishments which commenced operations after the census have also been taken into account.

7. Businesses in the former TBVC states are included in the survey as from January 1995. The 1991 and 1993 manufacturing censuses as well as this sample survey (before 1995) did not include information of the former TBVC states. Published and unpublished information was obtained from statistical offices of the former TBVC states and has been incorporated in the information before January 1995 to ensure a comparable time series. The sample data before January 1995 do not reflect the influence of the cyclic movement of the establishments in the former TBVC states.

8. Production indices for the various manufacturing subgroups, that were previously published in the **Bulletin of Statistics**, were discontinued as from January 1993. The production indices on a subgroup basis can be obtained through approximation by deflating the value of sales according to manufacturing subgroups (as published in Chapter 6 of the Bulletin of Statistics) by the production price indices for the relevant manufacturing subgroups (statistical release P0142.1, entitled **Production Price Index**).

9. More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups and the value of sales for the period January 1990 to August 1997 was published in statistical releases P3041.3 (entitled **Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to August 1997**) on 12 November 1997 and P3041.4 (entitled **Manufacturing statistics: Value of sales, January 1990 to July 1997**) on 6 November 1997.

TABLE 1 - INDICES OF THE PHYSICAL VOLUME OF MANUFACTURING PRODUCTION - TOTAL  
 HISTORICAL TABLE  
 BASE 1995 = 100

Month	1992	1993	1994	1995	1996	1997	1998
ACTUAL INDICES							
J	77,2	75,7	75,1	80,4	83,9	90,1	89,9
F	92,3	90,8	88,8	97,0	96,6	101,8	99,8*
M	95,9	98,3	98,9	103,3	102,0	102,1	102,2
A	87,0	84,2	86,5	90,6	95,5	104,6	96,9 1/
M	89,7	87,8	86,1	101,9	102,7	105,2	
J	90,0	93,1	93,5	101,1	101,4	104,1	
J	92,2	92,3	95,6	102,8	103,2	107,0	
A	86,5	94,4	95,7	104,8	105,5	106,4	
S	94,0	96,4	103,4	107,5	104,3	107,8	
O	100,5	100,7	105,4	112,1	114,4	117,8	
N	100,7	103,3	109,3	111,7	113,7	112,3	
D	81,4	83,3	85,3	86,8	84,4	88,0	
YEAR	90,6	91,7	93,6	100,0	100,6	103,9	
SEASONALLY ADJUSTED INDICES							
J	92,3	90,9	90,1	96,1	99,6	106,2	105,6
F	93,2	92,0	90,3	99,1	99,0	104,5	102,5
M	91,9	94,5	95,4	100,2	99,4	100,0	100,4
A	92,4	89,4	91,8	96,0	100,8	110,1	102,0
M	91,6	89,1	86,7	101,9	102,2	104,3	
J	89,0	92,3	92,9	100,5	101,0	103,9	
J	91,3	91,0	93,9	100,7	101,1	104,7	
A	83,6	91,4	92,8	101,7	102,4	103,2	
S	89,3	91,5	98,2	102,3	99,4	102,9	
O	91,2	91,1	94,9	100,5	102,2	105,1	
N	89,7	92,1	97,8	100,2	102,4	101,4	
D	92,5	94,8	97,5	99,7	97,4	101,8	

\* Revised  
 1/ Preliminary

TABLE 2

TABLE 2 - INDICES OF THE PHYSICAL VOLUME OF MANUFACTURING PRODUCTION - DIVISIONS

BASE 1995 = 100

Manufacturing Divisions	Weights	Year	Actual indices			Seasonally adjusted indices				
			1997	April	March	April	April	March	April	
				1998		1997		1998		1997
				1998	1997	1998	1997			
TOTAL	100,0	103,9	96,9	102,2	104,6	102,0	100,4	110,1		
Food and food products	13,6	106,4	101,5	96,9	106,5	106,4	97,4	111,1		
Beverages	5,2	104,9	93,4	108,3	84,0	109,3	104,8	97,9		
Textiles	3,3	101,5	90,0	99,3	102,8	91,0	92,7	104,1		
Wearing apparel	3,7	93,7	89,2	94,7	96,1	87,5	87,0	94,8		
Tanning and dressing of leather	0,4	103,0	98,5	107,6	132,2	96,7	101,4	129,8		
Footwear	1,1	83,9	73,7	85,0	76,2	79,6	81,3	82,5		
Wood and products of wood	1,8	111,2	98,9	115,7	114,3	103,3	111,1	120,1		
Paper and paper products	4,9	92,0	83,4	94,1	92,3	91,2	99,2	100,9		
Publishing and printing	3,9	99,5	87,9	98,8	94,3	92,7	93,3	99,6		
Coke and refined petroleum products	6,0	105,3	107,4	96,8	109,0	105,3	105,4	106,6		
Basic chemicals	4,4	108,1	104,4	102,6	108,5	108,3	108,3	112,8		
Other chemical products	7,0	107,8	100,3	109,0	113,0	104,6	103,4	118,1		
Rubber products	1,5	98,1	97,8	99,2	100,0	101,6	103,5	104,3		
Plastic products	2,9	91,8	89,4	97,0	91,5	94,7	92,1	96,8		
Glass and glass products	0,9	97,5	82,9	89,4	79,9	89,2	93,9	85,0		
Other non-metallic mineral products	3,3	98,3	99,2	102,4	99,6	104,3	99,2	104,8		
Basic iron and steel products	5,8	100,6	94,8	100,3	104,4	100,6	104,8	111,1		
Basic precious and non-ferrous metal products	1,9	143,4	130,7	131,9	148,5	130,5	125,0	149,0		
Fabricated metal products	6,6	109,9	98,3	107,5	116,0	104,9	103,3	124,1		
General and special purpose machinery and apparatus	6,1	111,6	105,0	117,4	112,8	112,4	109,0	122,0		
Electrical machinery and apparatus	3,2	100,1	94,2	91,4	101,8	94,3	88,4	102,5		
Radio, television and communication apparatus	1,2	102,1	83,7	125,6	78,5	98,6	102,7	93,5		
Professional equipment	0,5	96,7	86,0	93,5	97,1	85,9	90,3	97,3		
Motor vehicles, trailers parts and accessories	6,5	93,6	83,4	99,2	101,5	87,1	95,2	106,5		
Other transport equipment	1,0	123,9	120,9	112,4	129,6	120,6	108,6	130,6		
Furniture	1,8	110,2	99,9	97,4	112,2	108,3	100,8	122,3		
Other manufacturing industries	1,5	119,6	108,3	101,8	120,4	113,6	99,3	127,7		

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TABLE 3

TABLE 3 - VALUE OF SALES - MANUFACTURING - TOTAL  
HISTORICAL TABLE  
R1 000

Month	1992	1993*	1994*	1995*	1996*	1997*	1998
ACTUAL VALUES							
J	14 467 037	15 289 474	16 190 806	18 963 753	21 442 719	24 876 663	25 677 711*
F	17 510 739	18 637 234	19 682 445	24 056 113	25 741 962	29 227 051	29 205 257*
M	18 805 877	20 466 292	21 877 579	26 286 553	27 673 499	29 328 433	31 293 603
A	16 763 639	17 593 274	19 002 582	22 548 829	25 733 644	29 820 170	29 246 105 1/
M	17 522 847	18 342 033	19 549 435	25 327 786	27 717 370	30 031 606	
J	17 807 581	19 583 980	21 864 295	25 747 976	27 673 102	29 995 746	
J	18 492 184	19 563 607	22 042 214	25 207 791	27 770 492	30 491 715	
A	17 278 219	20 356 178	21 726 863	26 620 654	28 955 594	30 756 702	
S	18 982 133	20 756 927	23 662 763	27 243 312	28 973 232	30 605 299	
O	20 485 866	21 528 390	24 911 403	28 807 347	32 349 983	35 015 304	
N	20 479 731	22 060 215	25 902 824	29 287 699	32 309 158	32 933 536	
D	16 508 727	17 825 696	20 445 713	23 614 454	25 856 916	27 705 296	
YEAR	215 104 580	232 003 300	256 858 922	303 712 267	332 197 671	360 787 521	
SEASONALLY ADJUSTED VALUES							
J	17 566 982	18 689 557	19 850 473	23 234 406	26 152 633	30 177 787	31 053 785
F	17 711 656	18 886 935	19 966 864	24 512 432	26 297 350	29 954 158	29 974 547
M	17 635 711	19 194 427	20 540 036	24 814 434	26 267 830	28 025 436	30 017 491
A	17 901 550	18 815 481	20 307 915	24 007 901	27 231 075	31 370 622	30 686 338
M	17 823 938	18 588 523	19 711 382	25 384 072	27 677 102	29 892 740	
J	17 612 564	19 373 081	21 636 072	25 473 902	27 417 854	29 750 500	
J	18 384 851	19 442 211	21 914 914	25 066 698	27 655 544	30 396 736	
A	16 650 854	19 695 442	21 075 505	25 870 263	28 172 400	29 933 672	
S	18 021 275	19 721 897	22 555 922	26 126 039	27 929 778	29 593 284	
O	18 617 627	19 502 741	22 484 349	25 898 935	29 012 922	31 341 738	
N	18 363 163	19 767 201	23 217 305	26 240 289	28 977 447	29 555 283	
D	18 652 246	20 125 946	23 006 803	26 522 444	28 969 369	31 014 981	

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TABLE 4

TABLE 4 - VALUE OF SALES - MANUFACTURING DIVISIONS

R1 000

Manufacturing Divisions	Year	Actual values			Seasonally adjusted values		
		April	March	April	April	March	April
		1998		1997	1998		1997
		1997		1998	1998		1997
TOTAL	360 787 521	29 246 105	31 293 603	29 820 170	30 686 338	30 017 491	31 370 622
Food and food products	54 392 183	4 540 870	4 397 539	4 717 686	4 535 059	4 325 723	4 699 251
Beverages	18 318 615	1 531 864	1 623 065	1 258 250	1 725 700	1 584 097	1 418 779
Textiles	10 080 361	763 282	873 153	872 368	787 072	794 004	901 569
Wearing apparel	9 920 349	847 787	927 284	888 669	815 450	815 614	858 315
Tanning and dressing of leather	1 826 328	148 084	154 437	186 846	148 497	148 143	187 564
Footwear	2 579 392	180 921	230 682	203 912	201 033	215 526	227 609
Wood and products of wood	6 075 424	469 756	544 278	504 900	480 111	514 494	518 601
Paper and paper products	17 420 490	1 280 015	1 639 624	1 348 262	1 400 807	1 657 641	1 478 087
Publishing and printing	10 264 567	824 290	857 793	826 896	866 672	808 870	871 419
Coke and refined petroleum products	20 392 769	1 685 257	1 614 817	1 671 367	1 688 597	1 654 847	1 674 632
Basic chemicals	16 925 153	1 285 805	1 356 716	1 391 005	1 386 038	1 413 521	1 499 073
Other chemical products	21 742 042	1 745 846	1 910 321	1 813 996	1 826 634	1 797 802	1 901 257
Rubber products	4 212 301	380 936	375 686	362 972	378 512	378 450	362 076
Plastic products	9 251 160	765 979	820 776	759 637	800 818	799 865	795 386
Glass and glass products	2 323 575	186 050	186 088	164 227	202 854	207 293	177 449
Other non-metallic mineral products	9 124 768	758 745	798 140	769 050	804 628	784 264	818 334
Basic iron and steel products	24 585 417	1 980 729	2 101 864	2 060 604	2 048 276	2 132 538	2 135 946
Basic precious and non-ferrous metal products	11 995 331	886 042	939 568	999 213	924 880	900 861	1 042 169
Fabricated metal products	22 219 713	1 657 451	1 848 248	1 807 918	1 728 629	1 766 759	1 895 949
General and special purpose machinery and apparatus	19 681 617	1 781 003	2 074 803	1 535 784	1 883 479	1 761 218	1 642 698
Electrical machinery and apparatus	10 831 511	883 865	909 611	889 047	888 659	887 503	899 777
Radio, television and communication apparatus	3 309 229	296 104	296 573	233 905	357 890	198 053	287 159
Professional equipment	1 159 640	75 009	96 965	98 972	76 462	92 583	101 205
Motor vehicles, trailers parts and accessories	33 834 583	2 837 492	3 255 083	3 071 039	3 085 851	3 050 292	3 351 641
Other transport equipment	2 264 223	164 727	175 510	145 368	224 401	159 789	199 475
Furniture	5 609 037	439 201	442 467	450 347	471 788	469 043	486 401
Other manufacturing industries	10 447 743	848 995	842 512	787 930	930 362	834 410	867 622

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1/ Preliminary

TABLE 5

TABLE 5 - VALUE OF UNFILLED ORDERS - SELECTED SUBGROUPS

R1 000

Selected Manufacturing Subgroups	Actual values			Seasonally adjusted values		
	April	March*	April	April	March	April
	1998		1997	1998		1997
Spinning, weaving and finishing of textiles	223 918	229 705	279 123	227 041	229 030	283 124
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	8 938	12 068	10 396	8 839	9 718	10 306
Other textile articles	84 929	85 766	88 908	87 075	84 117	91 003
Knitted and crocheted fabrics and articles	132 399	144 303	176 122	135 665	147 559	180 821
Wearing apparel	904 511	917 868	1 007 933	888 561	918 076	988 450
Sawmilling and preserving of timber	17 735	18 599	21 729	17 848	18 433	21 756
Veneer sheets, plywood, laminboard, etc.	21 614	20 336	42 205	21 605	20 847	42 702
Builders' carpentry and joinery	30 711	32 974	35 022	30 998	33 981	35 351
Pulp, paper and paperboard	277 386	272 694	183 604	294 804	269 799	193 988
Corrugated paper and paperboard and containers	298 181	289 173	310 474	317 137	298 422	329 909
Paints, varnishes and coatings	17 538	18 045	21 406	16 559	18 244	20 375
Basic iron and steel products	3 065 867	3 057 377	3 326 975	3 047 005	3 129 461	3 312 699
Steel pipe and tube mills	165 673	180 438	397 566	179 183	186 664	430 387
Basic precious and non-ferrous metal products	1 229 397	1 244 237	1 208 378	1 280 074	1 291 684	1 258 686
Metal structures, parts	1 632 669	1 598 503	1 601 435	1 629 302	1 603 086	1 601 129
Cutlery, hand tools and general hardware	22 778	24 119	37 923	23 261	24 154	38 824
Metal containers, e.g. cans and tins	52 316	51 191	68 542	52 844	49 394	69 133
Cables, wire products, springs	81 148	81 937	87 923	78 945	84 958	85 794
Metal fasteners	43 753	45 502	81 227	39 071	43 576	72 408
All other metal products	540 581	624 394	835 220	547 950	594 157	840 404
Domestic appliances	26 651	31 444	35 820	24 853	27 440	33 567
Electric motors, generators and transformers	285 222	270 806	217 971	320 422	319 354	243 703
Insulated wire and cables	222 535	246 683	279 838	220 346	234 880	277 120
Accumulators, primary cells and primary batteries	14 918	13 366	15 645	15 331	13 360	16 073
Television, radio and communication apparatus	636 106	675 813	824 610	648 613	693 224	841 308
Motor vehicles	1 397 221	1 419 191	1 360 544	1 136 967	1 294 390	1 116 111
Parts and accessories for motor vehicles	289 300	260 609	327 048	279 126	261 517	315 260
Furniture	208 833	199 405	242 854	233 703	221 110	272 842

\* Revised