

# P3041.2

## Manufacturing: Production and sales

December 1997

Embargo: 13:00

Date: 12 February 1998

### MANUFACTURING PRODUCTION HIGHER THAN A YEAR AGO

*Although manufacturing production for the year 1997 shows an increase of 3,3% compared with the previous year, it is levelling off. Manufacturing production for the last three months of December 1997 shows a decrease of 0,3% after seasonal adjustment compared with the previous three months. Higher production for 1997 was reported in 20 of the 27 manufacturing major divisions.*

The major contributors to the increase of 3,3% in manufacturing production between 1996 and 1997 were the fabricated metal products division (0,5 of a percentage point), followed by the basic iron and steel products division (0,4 of a percentage point) while each of the beverage, other chemical products and radio, television and communication apparatus divisions contributed 0,3 of a percentage point to the total increase.

The total value of sales of manufactured products for 1997 (R361 082 million) showed an increase of 8,8% or R29 249 million compared with 1996. The largest increases were recorded by the food (+6,4% or R3 301 million), fabricated metal products (+13,0% or R2 568 million), basic iron and steel products (+11,2% or R2 502 million), other chemical products (+10,9% or R2 119 million) and beverages (+12,1% or R1 970 million) industries. In the food division the largest increases were reported by the meat products (+R429 million), processed fruit and vegetables (+R368 million), milk powder (+R614 million) and prepared animal feeds (+R525 million) industries. Furthermore, regarding the fabricated metal products division, higher sales were reported by the manufacturers of metal structures (+R457 million), metal doors, windows, tanks, reservoirs and steam generators (+R549 million) and cables, wire products and springs (+R398 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.

SUMMARY - TOTAL MANUFACTURING

Period	Production indices	Sales	Percentage change of:	
	1995 = 100	R mill.	Production indices	Sales
Actual				
Oct. 1997 - Dec. 1997	106,5	96 080,8	+2,2	+6,3
Oct. 1996 - Dec. 1996	104,2	90 420,7		
Seasonally adjusted				
Oct. 1997 - Dec. 1997	103,0	92 256,3	-0,3	+2,7
Jul. 1997 - Sept. 1997	103,3	89 787,8		

TABLE 1

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

Month	1991	1992	1993	1994	1995	1996	1997
ACTUAL INDICES							
J	80,6	77,2	75,7	75,1	80,4	83,9	89,8
F	93,2	92,3	90,8	88,8	97,0	96,6	101,9
M	97,8	95,9	98,3	98,9	103,3	102,0	102,1
A	95,2	87,0	84,2	86,5	90,6	95,5	104,8
M	92,0	89,7	87,8	86,1	101,9	102,7	105,2
J	95,1	90,0	93,1	93,5	101,1	101,4	104,3
J	94,1	92,2	92,3	95,6	102,8	103,2	107,1
A	96,9	86,5	94,4	95,7	104,8	105,5	106,0
S	98,3	94,0	96,4	103,4	107,5	104,3	107,1*
O	101,0	100,5	100,7	105,4	112,1	114,4	117,7*
N	102,1	100,7	103,3	109,3	111,7	113,7	113,1
D	80,6	81,4	83,3	85,3	86,8	84,4	88,8 1/
YEAR	93,9	90,6	91,7	93,6	100,0	100,6	104,0
SEASONALLY ADJUSTED INDICES							
J	96,0	92,3	91,0	90,5	97,0	101,5	108,6
F	94,0	93,2	92,1	90,3	99,1	99,0	104,6
M	93,1	91,3	93,9	94,7	99,2	98,4	98,7
A	100,9	92,4	89,4	91,8	96,0	101,0	110,6
M	94,2	91,6	89,1	86,8	101,9	102,1	104,2
J	93,9	89,0	92,4	92,9	100,5	100,9	103,9
J	93,5	91,3	91,0	93,9	100,7	100,9	104,7
A	93,4	83,6	91,4	92,8	101,7	102,3	102,8
S	93,9	89,5	91,7	98,4	102,6	99,7	102,5
O	91,9	91,3	91,1	95,0	100,5	102,1	104,9
N	91,0	89,7	92,2	97,8	100,0	102,1	101,8
D	91,8	92,6	94,9	97,4	99,4	97,0	102,3

\* Revised

1/ Preliminary

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

BASE 1995 = 100

Manufacturing Divisions	Weights	Year	Actual indices			Seasonally adjusted indices			
			1997	1/	November	December	December	November	December
				December					
				1997	1996	1997	1996		
TOTAL	100,0	104,0	88,8	113,1	84,4	102,3	101,8	97,0	
Food and food products	13,6	106,1	105,1	118,6	99,6	109,4	108,0	103,1	
Beverages	5,2	104,4	136,0	125,5	118,0	101,6	106,4	88,0	
Textiles	3,3	101,5	70,0	110,5	67,4	103,6	100,0	100,0	
Wearing apparel	3,7	94,9	74,8	108,0	57,0	111,7	92,7	85,0	
Tanning and dressing of leather	0,4	103,1	61,2	130,0	69,3	92,4	105,8	103,3	
Footwear	1,1	83,9	60,8	105,1	49,1	96,1	81,4	77,1	
Wood and products of wood	1,8	111,5	90,0	123,9	75,6	108,3	108,6	91,4	
Paper and paper products	4,9	91,7	89,9	95,0	79,0	95,3	87,6	84,0	
Publishing and printing	3,9	98,9	89,9	107,8	82,9	101,0	92,9	93,0	
Coke and refined petroleum products	6,0	105,3	103,1	101,8	100,8	103,0	99,7	100,6	
Basic chemicals	4,4	107,9	95,4	126,1	100,3	104,5	114,6	109,3	
Other chemical products	7,0	108,2	85,6	116,3	80,7	98,0	101,9	92,1	
Rubber products	1,5	98,4	71,9	111,1	69,5	93,2	99,3	88,4	
Plastic products	2,9	92,0	66,6	102,8	68,2	92,4	88,9	94,0	
Glass and glass products	0,9	98,4	85,1	120,3	81,6	95,3	101,7	91,9	
Other non-metallic mineral products	3,3	98,3	74,0	102,3	69,5	106,2	94,5	99,3	
Basic iron and steel products	5,8	102,3	92,3	102,5	92,6	99,4	100,8	99,9	
Basic precious and non-ferrous metal products	1,9	143,6	140,0	133,1	138,4	156,6	126,5	155,1	
Fabricated metal products	6,6	109,5	75,9	117,8	83,8	101,0	103,2	111,9	
General and special purpose machinery and apparatus	6,1	108,4	93,8	112,0	79,6	117,1	109,1	99,0	
Electrical machinery and apparatus	3,2	100,1	76,2	113,5	70,3	102,7	102,4	94,3	
Radio, television and communication apparatus	1,2	102,3	90,4	118,0	57,6	119,3	103,2	76,3	
Professional equipment	0,5	94,2	75,0	95,1	79,5	98,5	85,9	104,4	
Motor vehicles, trailers parts and accessories	6,5	93,9	41,6	97,5	54,4	63,8	86,1	82,7	
Other transport equipment	1,0	126,8	106,3	126,5	118,6	126,3	126,6	140,7	
Furniture	1,8	106,9	71,9	140,5	76,3	97,4	103,8	102,7	
Other manufacturing industries	1,5	120,5	86,9	136,6	74,5	116,5	114,0	99,1	

\* Revised

1/ Preliminary

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

Month	1991	1992	1993	1994	1995	1996	1997 *
ACTUAL VALUES							
J	13 783 105	14 467 037	15 266 173	16 169 989	18 939 693	21 416 829	24 872 022
F	16 297 962	17 510 739	18 609 956	19 656 081	24 029 003	25 710 681	29 195 603
M	17 447 255	18 805 877	20 434 463	21 847 702	26 256 366	27 639 783	29 270 976
A	16 917 211	16 763 639	17 572 052	18 978 165	22 525 020	25 705 818	29 740 083
M	16 632 606	17 522 847	18 319 979	19 527 269	25 302 470	27 686 140	29 957 168
J	17 110 351	17 807 581	19 559 198	21 839 174	25 722 122	27 642 844	29 928 887
J	17 233 731	18 492 184	19 540 911	22 018 314	25 181 192	27 742 223	30 562 625
A	17 863 110	17 278 219	20 333 383	21 700 239	26 595 046	28 926 216	30 836 286
S	18 325 821	18 982 133	20 731 470	23 634 447	27 214 146	28 941 766*	30 637 840
O	18 812 910	20 485 866	21 503 872	24 884 237	28 775 075	32 316 524*	35 090 368
N	19 018 784	20 479 731	22 033 110	25 875 369	29 255 420	32 274 173*	33 132 655
D	15 174 908	16 508 727	17 800 395	20 422 869	23 589 466	25 830 019*	27 857 745 1/
YEAR	204 617 754	215 104 580	231 704 962	256 553 855	303 385 019	331 833 016	361 082 258
SEASONALLY ADJUSTED VALUES							
J	16 667 533	17 573 260	18 671 344	19 890 466	23 396 578	26 550 066	30 858 920
F	16 492 788	17 718 632	18 869 908	19 946 160	24 433 701	26 183 730	29 733 803
M	16 410 335	17 644 016	19 161 367	20 472 800	24 629 091	25 987 896	27 569 326
A	18 021 883	17 933 879	18 852 678	20 391 267	24 176 286	27 577 220	31 863 426
M	16 942 501	17 827 444	18 570 684	19 692 963	25 378 465	27 649 786	29 822 656
J	16 927 904	17 608 551	19 340 277	21 598 701	25 443 042	27 364 654	29 659 644
J	17 158 930	18 387 072	19 421 430	21 879 883	25 021 272	27 571 409	30 400 571
A	17 121 251	16 596 321	19 588 973	20 952 220	25 711 592	27 987 335	29 854 338
S	17 454 895	18 021 965	19 696 579	22 514 892	26 054 358	27 820 065	29 532 881
O	17 125 335	18 618 008	19 478 242	22 465 618	25 866 958	28 987 048	31 420 338
N	17 073 246	18 364 176	19 740 298	23 200 416	26 206 964	28 954 496	29 755 365
D	17 190 707	18 656 102	20 096 878	22 968 831	26 432 298	28 843 147	31 080 603

\* Revised  
1/ Preliminary

TABLE 4 - VALUE OF SALES - MANUFACTURING DIVISIONS

R1 000

Manufacturing Divisions	Year	Actual values			Seasonally adjusted values		
		December1/	November	December	December	November	December
		1997		1996		1996	
TOTAL	361 082 258	27 857 745	33 132 655	25 830 019	31 080 603	29 755 365	28 843 147
Food and food products	54 607 144	4 661 896	5 117 489	4 249 707	4 572 329	4 671 795	4 158 025
Beverages	18 217 626	2 181 034	1 901 357	1 842 698	1 555 427	1 631 015	1 301 201
Textiles	10 093 156	593 418	920 878	526 648	878 372	835 897	780 454
Wearing apparel	8 446 471	615 920	882 335	454 274	779 069	724 519	576 658
Tanning and dressing of leather	1 828 381	97 925	196 180	102 306	145 122	156 354	149 990
Footwear	2 363 437	173 249	256 244	159 408	203 606	204 921	187 209
Wood and products of wood	6 088 569	405 502	571 368	359 579	527 454	498 695	466 049
Paper and paper products	17 436 712	1 518 224	1 566 997	1 310 164	1 581 493	1 448 676	1 374 278
Publishing and printing	10 302 739	811 938	980 109	693 136	896 197	857 146	764 733
Coke and refined petroleum products	20 431 236	1 643 162	1 712 632	1 807 843	1 629 006	1 684 465	1 799 624
Basic chemicals	16 903 379	1 285 076	1 596 659	1 260 543	1 408 685	1 409 145	1 375 116
Other chemical products	21 429 230	1 673 327	1 985 147	1 503 382	1 857 977	1 754 849	1 669 962
Rubber products	4 216 053	291 155	379 798	334 798	331 698	342 419	380 005
Plastic products	9 276 545	636 168	894 170	564 952	792 647	773 936	703 531
Glass and glass products							
Other non-metallic mineral products	9 135 023	605 390	829 122	533 585	841 313	754 791	742 458
Basic iron and steel products	24 781 461	1 962 144	2 106 398	1 706 382	2 162 804	2 096 291	1 884 172
Basic precious and non-ferrous metal products	12 028 455	1 018 113	952 077	886 836	1 095 448	936 101	960 120
Fabricated metal products	22 214 607	1 590 021	1 924 095	1 757 126	1 948 680	1 655 747	2 182 772
General and special purpose machinery and apparatus	19 719 909	1 582 270	1 686 822	1 305 658	1 845 200	1 644 833	1 528 644
Electrical machinery and apparatus	10 801 421	739 048	1 048 196	629 559	961 957	934 722	820 348
Radio, television and communication apparatus	3 385 252	242 437	324 334	160 125	309 759	289 696	205 685
Professional equipment	1 155 306	84 709	100 932	78 660	102 655	90 846	95 793
Motor vehicles, trailers parts and accessories	33 684 772	1 684 235	2 975 931	2 100 258	2 465 351	2 630 686	3 056 475
Other transport equipment	2 351 065	210 697	274 102	168 833	227 139	245 080	182 066
Furniture	5 545 089	360 369	622 760	357 434	441 738	465 498	439 538
Other manufacturing industries	10 489 313	927 452	922 051	753 744	1 015 126	800 253	843 187

\* Revised  
1/ Preliminary

TABLE 5

TABLE 5 - VALUE OF UNFILED ORDERS - SELECTED SUBGROUPS

R1 000

Selected Manufacturing Subgroups	Actual values			Seasonally adjusted values		
	December	November	December	December	November	December
	1997		1996	1997		1996
Spinning, weaving and finishing of textiles	247 833	257 290	236 886	256 016	261 811	243 690
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	9 704	9 268	10 916	10 250	9 766	11 764
Other textile articles	70 211	85 531	70 957	83 304	84 664	84 416
Knitted and crocheted fabrics and articles	145 066	157 004	160 707	146 568	147 963	161 793
Wearing apparel	940 416	1 034 788	894 703	1 037 061	1 049 845	983 048
Sawmilling and preserving of timber	18 909	21 391	21 057	23 126	24 269	25 752
Veneer sheets, plywood, laminboard, etc.	11 772	25 871	30 709	14 198	23 076	36 854
Builders' carpentry and joinery	25 447	33 539	38 440	30 729	34 147	46 246
Pulp, paper and paperboard	246 505	268 899	219 490	269 716	250 845	239 609
Corrugated paper and paperboard and containers	310 844	347 745	331 550	299 959	313 974	320 386
Paints, varnishes and coatings	16 031	19 667	23 074	17 869	18 153	25 706
Basic iron and steel products	3 328 725	3 363 336	3 165 429	3 351 407	3 329 576	3 182 013
Steel pipe and tube mills	192 416	210 253	425 864	181 111	196 877	398 777
Basic precious and non-ferrous metal products	1 212 241	1 249 074	1 223 123	1 270 127	1 287 199	1 284 367
Metal structures, parts	1 595 431	1 703 100	1 447 866	1 594 535	1 627 881	1 441 875
Cutlery, hand tools and general hardware	25 950	40 356	28 714	30 310	37 460	33 438
Metal containers, e.g. cans and tins	55 669	50 905	75 145	51 749	48 712	70 198
Cables, wire products, springs	68 569	84 543	65 975	80 746	79 345	77 162
Metal fasteners	47 629	49 045	65 799	55 464	53 183	77 944
All other metal products	738 982	819 853	765 270	875 954	906 931	898 734
Domestic appliances	48 557	41 379	15 616	50 408	47 329	16 382
Electric motors, generators and transformers	200 939	190 031	225 741	186 894	170 913	211 542
Insulated wire and cables	257 780	295 952	190 501	284 701	318 824	209 006
Accumulators, primary cells and primary batteries	13 691	14 435	11 268	12 971	15 686	10 535
Television, radio and communication apparatus	1 045 450	1 011 220	844 469	1 080 107	1 017 862	874 142
Motor vehicles	980 151	1 391 720	1 332 042	1 255 108	1 721 846	1 704 322
Parts and accessories for motor vehicles	307 591	239 604	303 848	305 776	274 693	303 611
Furniture	166 705	214 169	265 183	200 523	188 381	318 015

\* Revised