

P3041.2

Manufacturing statistics: Production and sales

November 1997

Embargo: 13:00

Date: 15 December 1997

MANUFACTURING PRODUCTION DECREASES SLIGHTLY

Despite fluctuations, the total manufacturing production for the three months up to November 1997 decreased by 0,8% after seasonal adjustment compared with the previous three months. However, the average production index for the three months September to November 1997 (112,4) was 1,4% higher than for the corresponding period of 1996.

Lower production for the three months up to November 1997 compared with the previous three months was reported by 17 of the 27 major manufacturing divisions. The major contributors to the decrease of 0,8% after seasonal adjustment were the other chemical products (-0,44 of a percentage point), the motor vehicle (-0,40 of a percentage point), the petroleum products (-0,38 of a percentage point) and the basic iron and steel products (-0,23 of a percentage point) industries. The lower production was counteracted by increased production by the food industry (contributing +0,72 of a percentage point).

The seasonally adjusted value of sales of manufactured products for the three months up to November 1997 increased by 0,8% (or R718,3 million) compared with the previous three months. Large increases were reported by the food (+R292,6 million), beverages (+R190,1 million) and paper industries (+R240,9 million).

SUMMARY - TOTAL MANUFACTURING

Period	Production indices	Sales	Percentage change of:	
	1995 = 100	R mill.	Production-indices	Sales
Actual				
Sept. 1997 - Nov. 1997	112,4	98 922,1	+1,4	+5,8
Sept. 1996 - Nov. 1996	110,8	93 517,5		
Seasonally adjusted				
Sept. 1997 - Nov. 1997	103,0	90 619,2	-0,8	+0,8
Jun. 1997 - Aug. 1997	103,8	89 900,9		

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. (i) Metal furniture which was previously included in the major group Metal Products, is included in the division Furniture and (ii) 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	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	106,4
O	101,0	100,5	100,7	105,4	112,1	114,4	117,5
N	102,1	100,7	103,3	109,3	111,7	113,7	113,3 1/
D	80,6	81,4	83,3	85,3	86,8	84,4	
YEAR	93,9	90,6	91,7	93,6	100,0	100,6	
SEASONALLY ADJUSTED INDICES							
J	96,1	92,3	91,0	90,5	97,1	101,5	108,6
F	94,0	93,2	92,1	90,3	99,1	99,0	104,6
M	93,1	91,3	93,8	94,7	99,2	98,3	98,7
A	100,9	92,4	89,4	91,8	96,0	101,1	110,7
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	93,2	91,1	90,9	93,9	100,7	100,9	104,7
A	93,4	83,6	91,5	92,8	101,7	102,3	102,8
S	93,9	89,5	91,8	98,5	102,7	99,9	102,1
O	92,0	91,3	91,2	95,0	100,5	102,2	104,8
N	91,0	89,8	92,2	97,8	100,0	102,1	102,0
D	91,8	92,6	94,8	97,2	99,2	96,7	

* 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			
			1996	November	October	November	November	October	November
				1/					
				1997	1996	1997	1996	1997	1996
TOTAL	100,0	100,6	113,3	117,5	113,7	102,0	104,8	102,1	
Food and food products	13,6	104,6	120,6	125,1	118,3	110,2	112,3	108,0	
Beverages	5,2	99,5	117,8	119,7	123,1	101,8	108,4	106,1	
Textiles	3,3	97,1	113,4	118,0	113,3	102,1	106,0	102,1	
Wearing apparel	3,7	90,7	109,2	121,6	106,2	94,9	98,8	92,0	
Tanning and dressing of leather	0,4	100,7	128,1	123,8	124,4	105,7	112,9	103,1	
Footwear	1,1	84,3	105,1	106,0	111,6	81,0	83,0	85,7	
Wood and products of wood	1,8	102,0	127,0	124,5	117,5	111,0	110,1	102,1	
Paper and paper products	4,9	89,2	98,0	106,5	99,0	88,8	96,8	89,4	
Publishing and printing	3,9	97,0	107,8	114,0	109,1	93,0	102,5	94,2	
Coke and refined petroleum products	6,0	100,5	101,8	102,2	103,6	99,3	100,6	100,8	
Basic chemicals	4,4	104,0	124,1	124,6	112,4	114,3	112,2	102,6	
Other chemical products	7,0	103,8	119,7	124,9	120,7	105,6	110,6	106,2	
Rubber products	1,5	96,2	111,1	100,5	101,8	99,9	93,3	91,1	
Plastic products	2,9	97,5	102,8	105,0	115,3	88,2	89,5	99,1	
Glass and glass products	0,9	95,0	111,8	110,8	104,9	95,7	96,6	89,6	
Other non-metallic mineral products	3,3	100,9	105,1	110,8	110,1	96,6	97,1	101,1	
Basic iron and steel products	5,8	96,4	103,1	97,3	100,8	103,6	94,0	100,6	
Basic precious and non-ferrous metal products	1,9	148,0	131,5	138,2	164,3	125,8	134,3	157,8	
Fabricated metal products	6,6	101,5	120,6	130,2	123,6	105,6	112,9	108,2	
General and special purpose machinery and apparatus	6,1	105,3	104,8	118,3	104,1	102,0	104,4	101,3	
Electrical machinery and apparatus	3,2	95,8	116,5	112,5	107,7	104,5	104,1	96,3	
Radio, television and communication apparatus	1,2	83,4	120,9	113,9	94,4	104,1	105,4	81,0	
Professional equipment	0,5	96,6	96,5	100,8	107,9	86,3	92,6	95,7	
Motor vehicles, trailers parts and accessories	6,5	95,3	102,0	108,0	110,9	90,3	92,1	98,0	
Other transport equipment	1,0	129,2	126,5	129,0	133,9	126,1	119,4	133,2	
Furniture	1,8	102,1	142,5	143,8	138,9	106,3	109,5	103,4	
Other manufacturing industries	1,5	107,5	138,9	155,4	126,7	116,3	126,6	104,8	

* Revised
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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	24 847 159
F	16 297 962	17 510 739	18 609 956	19 656 081	24 029 003	25 710 681	29 191 529
M	17 447 255	18 805 877	20 434 463	21 847 702	26 256 366	27 639 783	29 279 283
A	16 917 211	16 763 639	17 572 052	18 978 165	22 525 020	25 705 818	29 740 309
M	16 632 606	17 522 847	18 319 979	19 527 269	25 302 470	27 686 140	29 948 614
J	17 110 351	17 807 581	19 559 198	21 839 174	25 722 122	27 642 844	29 930 312
J	17 233 731	18 492 184	19 540 911	22 018 314	25 181 192	27 742 223	30 540 997
A	17 863 110	17 278 219	20 333 383	21 700 239	26 595 046	28 926 216	30 872 966
S	18 325 821	18 982 133	20 731 470	23 634 447	27 214 146	28 938 501	30 552 484
O	18 812 910	20 485 866	21 503 872	24 884 237	28 775 075	32 312 237	35 032 796
N	19 018 784	20 479 731	22 033 110	25 875 369	29 255 420	32 266 804	33 336 843 1/
D	15 174 908	16 508 727	17 800 395	20 422 869	23 589 466	25 827 189	
YEAR	204 617 754	215 104 580	231 704 962	256 553 855	303 385 019	331 815 265	
SEASONALLY ADJUSTED VALUES							
J	16 663 397	17 569 486	18 670 252	19 892 822	23 405 080	26 558 559	30 838 385
F	16 489 032	17 714 583	18 868 069	19 948 245	24 443 202	26 195 488	29 745 934
M	16 407 210	17 639 985	19 145 595	20 441 704	24 571 105	25 912 941	27 489 589
A	18 019 303	17 916 855	18 821 400	20 339 483	24 108 318	27 483 085	31 745 045
M	16 989 296	17 892 636	18 654 230	19 792 421	25 506 626	27 766 440	29 917 381
J	16 923 845	17 598 976	19 324 604	21 580 996	25 419 351	27 341 918	29 643 701
J	17 139 467	18 368 870	19 404 324	21 867 923	25 010 966	27 568 678	30 384 388
A	17 117 860	16 591 974	19 583 451	20 945 132	25 696 889	27 967 108	29 872 856
S	17 453 698	18 020 825	19 696 599	22 516 370	26 052 365	27 811 790	29 449 415
O	17 124 279	18 618 058	19 480 767	22 473 905	25 876 905	28 996 131	31 388 501
N	17 071 568	18 364 236	19 743 996	23 178 301	26 137 142	28 811 203	29 781 306
D	17 190 386	18 657 257	20 101 661	23 006 301	26 595 174	29 128 514	

* Revised

1/ Preliminary

TABLE 4 - VALUE OF SALES - MANUFACTURING DIVISIONS

R1 000

Manufacturing Divisions	Year	Actual values			Seasonally adjusted values		
		November	October	November	November	October	November
		1/					
		1996	1997		1996	1997	
TOTAL	331 815 265	33 336 843	35 032 796	32 266 804	29 781 306	31 388 501	28 811 203
Food and food products	51 306 023	5 143 478	5 250 113	5 076 292	4 712 944	4 732 889	4 654 534
Beverages	16 247 507	1 829 453	1 712 542	1 702 987	1 594 800	1 602 850	1 488 342
Textiles	9 064 196	958 078	982 336	901 277	861 353	883 769	810 992
Wearing apparel	7 383 526	886 250	961 721	769 026	724 995	738 141	629 077
Tanning and dressing of leather	1 644 701	193 395	183 564	187 633	155 087	165 520	151 249
Footwear	2 292 311	240 911	232 233	231 600	193 707	192 340	186 854
Wood and products of wood	5 264 529	584 451	574 692	526 227	504 796	503 004	452 849
Paper and paper products	16 179 528	1 576 939	1 625 504	1 450 392	1 408 460	1 454 648	1 293 387
Publishing and printing	9 429 976	954 963	993 752	912 456	834 258	892 161	797 834
Coke and refined petroleum products	18 555 078	1 716 341	1 726 254	1 768 079	1 692 888	1 711 710	1 746 501
Basic chemicals	15 552 192	1 599 387	1 677 185	1 542 915	1 412 754	1 465 675	1 357 750
Other chemical products	19 310 251	2 033 641	2 136 193	1 915 663	1 796 423	1 862 454	1 688 611
Rubber products	3 963 194	373 333	379 094	370 549	340 317	345 983	336 454
Plastic products	8 883 465	891 409	904 920	910 576	760 054	773 252	778 938
Glass and glass products							
Other non-metallic mineral products	8 453 571	848 448	847 274	801 477	766 342	742 862	720 720
Basic iron and steel products	22 279 348	2 107 307	2 215 090	1 968 294	2 075 367	2 076 569	1 933 968
Basic precious and non-ferrous metal products	10 841 732	977 059	1 016 409	1 084 433	940 689	979 475	1 046 106
Fabricated metal products	19 646 930	1 962 058	2 616 499	1 995 536	1 681 326	2 349 722	1 713 380
General and special purpose machinery and apparatus	18 337 078	1 681 258	2 031 496	1 577 826	1 632 872	1 722 417	1 531 977
Electrical machinery and apparatus	9 600 176	1 090 332	1 027 689	930 588	963 857	934 243	821 425
Radio, television and communication apparatus	2 902 572	345 762	312 799	269 914	302 739	296 720	235 606
Professional equipment	1 056 380	107 204	104 642	102 283	94 912	96 567	90 150
Motor vehicles, trailers parts and accessories	34 158 403	2 959 234	3 227 604	3 365 414	2 644 241	2 730 645	3 000 143
Other transport equipment	1 842 495	282 451	214 619	129 827	245 494	208 814	113 511
Furniture	4 905 148	643 584	634 943	570 412	482 152	487 507	426 878
Other manufacturing industries	8 805 162	932 978	1 013 689	788 817	815 526	883 106	683 448

* Revised

1/ Preliminary

TABLE 5 - VALUE OF UNFILLED ORDERS - SELECTED SUBGROUPS

R1 000

Selected Manufacturing Subgroups	Actual values			Seasonally adjusted values		
	November	October	November	November	October	November
	1997		1996	1997		1996
Spinning, weaving and finishing of textiles	255 399	272 962	270 685	260 262	270 455	275 959
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	9 833	11 281	10 706	10 354	11 558	11 214
Other textile articles	87 954	87 965	82 320	86 107	82 933	81 021
Knitted and crocheted fabrics and articles	159 479	166 520	166 122	149 160	149 803	154 327
Wearing apparel	989 253	1 011 659	975 213	1 006 920	972 015	995 146
Sawmilling and preserving of timber	24 668	26 048	22 407	27 359	27 506	24 992
Veneer sheets, plywood, laminboard, etc.	29 987	30 633	40 718	26 857	27 759	36 673
Builders' carpentry and joinery	33 539	38 483	43 886	34 658	33 809	45 796
Pulp, paper and paperboard	282 212	257 161	262 589	260 388	245 258	244 509
Corrugated paper and paperboard and containers	329 149	337 807	358 865	297 010	298 973	323 930
Paints, varnishes and coatings	19 667	20 428	23 272	18 153	16 035	21 248
Basic iron and steel products	3 361 600	3 431 745	3 099 814	3 332 704	3 381 103	3 063 525
Steel pipe and tube mills	207 034	228 222	477 153	190 797	239 586	440 363
Basic precious and non-ferrous metal products	1 201 413	1 307 080	1 217 871	1 248 991	1 344 334	1 267 984
Metal structures, parts	1 703 100	1 636 440	1 502 396	223 534	251 107	327 914
Cutlery, hand tools and general hardware	40 356	35 282	32 329	37 613	35 880	30 122
Metal containers, e.g. cans and tins	50 905	52 882	77 937	1 625 103	1 624 025	1 434 990
Cables, wire products, springs	87 059	91 540	65 808	48 578	51 631	74 322
Metal fasteners	49 045	56 465	69 978	81 116	84 762	60 833
All other metal products	840 666	963 525	828 089	52 914	58 755	77 108
Domestic appliances	41 379	40 214	16 584	1 117 161	1 053 288	829 299
Electric motors, generators and transformers	190 031	179 970	227 889	930 989	984 509	911 126
Insulated wire and cables	295 952	283 883	173 508	46 952	44 254	18 583
Accumulators, primary cells and primary batteries	14 435	15 797	11 325	328 652	301 548	189 085
Television, radio and communication apparatus	1 132 781	1 034 427	841 922	165 227	155 846	200 196
Motor vehicles	1 391 720	1 426 271	1 377 112	15 786	16 479	12 362
Parts and accessories for motor vehicles	241 567	274 595	257 714	1 681 891	1 539 054	1 669 092
Furniture	252 884	328 498	370 429	223 534	251 107	327 914

* Revised