

## P3041.2

### MANUFACTURING: production and sales

December 1998

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#### MANUFACTURING PRODUCTION LOWER THAN A YEAR AGO

*Manufacturing production for the year 1998 reflected a decrease of 2,7% compared with the year 1997. Lower production for 1998 was reported by 20 of the 27 manufacturing major divisions. However, manufacturing production for the fourth quarter of 1998 reflected an increase of 0,5% after seasonal adjustment compared with the third quarter of 1998. The slight increase was mainly due to higher production reported by the chemical, petroleum and motor vehicle divisions during the fourth quarter of 1998.*

The major contributors to the annual decrease of 2,7% were the motor vehicle division (-0,6 of a percentage point), followed by the machinery (-0,4 of a percentage point), the textile (-0,3 of a percentage point), the clothing (-0,3 of a percentage point), the metal (-0,3 of a percentage point) and the basic iron and steel (-0,2 of a percentage point) divisions.

The total value of sales of manufactured products for the year 1998 (R366 692 million) showed an increase of 1,6% (R5 928 million) compared with 1997. The largest increases were reported by the food division (4,0% or R2 232 million), the radio, television and communication apparatus division (33,3% or R1 104 million); and the beverage division (5,3% or R983 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 and major groups. 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. 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. 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.
4. **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).
5. 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.
6. 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**).

7. 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.

8. Stats SA has adopted the confidential pre-release policy in respect of selected economic indicators and specific government departments. The policy accords with practice among leading statistical agencies. The statistical integrity of the indices and strict observance of the release time has been assured by the following procedure:

In respect of this statistical release, an official representative from the Office of the President, the Deputy President, the Department of Trade and Industry, the Department of Finance, and the South African Reserve Bank will receive a copy of the release on a strictly confidential basis two hours in advance of the public issue.

Stats SA pre-release policy may be inspected at its Website, [www.statssa.gov.za](http://www.statssa.gov.za).

SUMMARY - TOTAL MANUFACTURING

Period	Production indices		Sales	Percentage change of:	
	1995 = 100		R mill.	Production indices	Sales
	Actual				
Oct. 1998 - Dec. 1998	103,2	96 675,9	-3,0	+0,9	
Oct. 1997 - Dec. 1997	106,4	95 843,2			
Seasonally adjusted					
Oct. 1998 - Dec. 1998	100,3	92 877,7	+0,5	+1,3	
Jul. 1998 - Sept. 1998	99,8	91 707,0			

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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	75,6	75,4	79,5	84,0	90,0	89,7
F	92,3	90,6	89,6	97,0	96,6	101,2	101,1
M	95,9	98,1	99,2	103,4	101,9	102,0	102,4
A	87,0	84,1	86,5	90,6	95,3	104,7	97,0
M	89,7	87,6	86,4	101,3	102,7	105,3	101,1
J	90,0	93,0	93,7	102,0	101,4	104,1	103,3
J	92,2	92,2	95,9	102,8	103,4	107,4	104,3
A	86,5	94,3	96,2	104,9	105,5	106,6	99,5
S	94,0	96,2	103,6	107,5	104,2	107,8*	106,0
O	100,5	100,5	106,1	112,1	114,4	118,6	111,6
N	100,7	103,0	109,6	111,9	113,8	112,4	110,3
D	81,4	83,3	86,0	86,8	84,8	88,3*	87,7 1/
YEAR	90,6	91,5	94,0	100,0	100,7	104,0	101,2
SEASONALLY ADJUSTED INDICES							
J	92,4	90,9	90,7	95,3	100,0	106,6	105,8
F	93,3	91,8	91,1	99,1	98,9	103,7	103,6
M	91,3	93,6	95,1	99,8	99,1	100,0	100,7
A	92,6	89,7	92,4	96,6	101,3	110,9	102,6
M	91,6	88,9	87,1	101,5	102,3	104,5	100,2
J	89,0	92,2	93,0	101,3	100,5	103,2	102,4
J	91,3	91,0	94,2	100,7	101,0	104,6	101,5
A	83,5	91,3	93,3	101,8	102,3	103,4	96,4
S	89,4	91,3	98,4	102,3	99,3	103,0	101,6
O	91,3	91,0	95,6	100,6	102,2	105,8	99,4
N	89,8	92,0	98,2	100,5	102,7	101,9	100,2
D	92,4	94,7	98,1	99,5	97,6	101,8	101,2

\* Revised  
1/ Preliminary

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TABLE 2 - INDICES OF THE PHYSICAL VOLUME OF MANUFACTURING PRODUCTION - DIVISIONS AND MAJOR GROUPS

BASE 1995 = 100

Manufacturing Divisions and major groups	Weights	Year	Actual indices			Seasonally adjusted indices			
			1998	December	November	December	December	November	December
				1998		1997	1998		1997
TOTAL	100,0	101,2	87,7	110,3	88,3	101,2	100,2	101,8	
Food and food products	13,6	108,2	99,1	121,6	105,0	104,9	109,4	110,5	
Meat, fish, fruit etc.	3,9	130,4	139,9	148,1	119,0	147,0	139,2	125,0	
Dairy products	1,6	92,2	99,6	99,1	103,4	90,7	88,6	94,3	
Grain mill products	2,8	95,9	97,5	96,4	103,1	96,2	93,5	101,6	
Other food products	5,3	103,3	69,8	122,5	96,2	79,0	102,4	107,2	
Beverages	5,2	103,3	135,9	117,7	145,3	99,6	100,9	106,5	
Total textiles	3,3	92,0	63,7	101,4	63,9	96,2	91,7	96,3	
Textiles	2,0	88,8	57,0	95,7	61,6	90,7	88,4	98,1	
Other textile products	1,3	96,8	73,8	110,0	67,4	101,9	95,8	92,7	
Total Wearing apparel	3,7	86,9	58,8	102,4	67,7	87,3	86,5	100,7	
Knitted, crocheted articles	0,7	81,4	52,7	82,8	57,8	77,4	79,0	85,0	
Wearing apparel	3,0	88,2	60,1	106,7	69,8	90,3	89,1	105,0	
Tanning and dressing of leather	0,4	107,3	60,4	128,7	59,8	93,8	105,0	92,0	
Footwear	1,1	74,1	51,1	80,8	60,8	75,6	64,4	90,6	
Wood and products of wood	1,8	104,0	75,6	119,2	86,5	95,6	104,7	108,7	
Sawmilling and planing of wood	0,6	99,6	66,7	107,1	84,0	87,3	98,4	109,4	
Products of wood	1,1	106,3	80,4	125,8	87,8	101,1	107,6	110,1	
Paper and paper products	4,9	93,4	86,9	96,9	89,9	91,6	89,7	94,7	
Total publishing and printing	3,9	95,0	91,4	109,7	88,2	101,3	96,2	97,6	
Publishing	1,6	100,2	103,0	107,8	101,9	104,8	97,8	104,3	
Printing, recorded media	2,3	91,4	83,5	111,0	78,8	96,2	93,4	90,4	
Coke and refined petroleum products	6,1	105,9	112,9	114,6	103,1	113,5	113,0	103,6	
Basic chemicals	4,4	114,5	109,2	132,9	107,6	114,9	120,2	113,2	
Other chemical products	7,1	104,1	87,9	112,7	80,5	105,7	101,1	96,0	
Rubber products	1,5	95,2	58,9	96,4	68,4	83,1	87,6	95,3	
Plastic products	2,9	89,0	60,4	102,4	62,3	86,6	88,0	88,9	
Glass and glass products	1,0	89,7	79,0	112,2	81,7	89,6	93,6	92,9	
Other non-metallic mineral products	3,3	93,5	68,7	98,2	71,2	96,7	90,3	100,4	
Basic iron and steel products	5,8	97,2	74,8	86,1	94,8	81,7	88,1	103,1	
Basic precious and non-ferrous metal products	1,9	144,2	144,2	147,3	138,5	153,8	145,2	148,0	
Fabricated metal products	6,6	104,9	83,5	121,7	77,4	107,0	105,9	99,5	
Structural metal products	1,9	114,3	103,5	145,5	95,4	120,8	118,6	112,4	
Other fabricated metal product	4,7	101,1	75,3	112,0	70,0	103,6	99,1	95,9	
Total machinery and equipment	6,1	104,2	92,8	97,0	96,5	114,9	96,1	119,6	
General purpose machinery	2,5	110,5	93,9	105,6	103,7	109,9	107,0	122,2	
Special purpose machinery	3,1	98,6	95,2	84,5	94,5	110,2	85,3	109,8	
Household appliances	0,5	107,6	72,9	130,5	72,8	109,0	114,3	106,6	
Electrical machinery, apparatus	3,2	97,5	73,6	111,4	75,6	99,0	99,6	101,4	
Radio, television and communication apparatus	1,2	126,8	100,7	149,7	87,0	136,0	133,5	117,2	
Professional equipment	0,5	77,5	70,4	80,7	84,1	81,5	74,3	98,8	
Motor vehicles; trailers; parts and accessories	6,5	84,5	53,1	92,5	39,3	84,6	83,3	62,1	
Motor vehicles	3,5	75,3	47,8	80,9	36,6	78,7	74,1	59,7	
Bodies for motor vehicles; trailers and semi-trailers	0,5	69,2	54,4	79,4	40,9	82,7	69,3	61,5	
Parts and accessories	2,5	101,0	60,5	111,7	42,8	106,0	99,8	74,4	
Other transport equipment	1,0	118,1	103,8	109,7	100,1	121,6	115,5	117,7	
Furniture	1,8	105,2	85,9	118,8	68,8	115,5	92,4	92,4	
Other manufacturing industries	1,5	109,1	92,5	129,8	86,5	117,9	111,7	110,2	

\* Revised

1/ Preliminary

TABLE 3 - VALUE OF SALES - MANUFACTURING - TOTAL

HISTORICAL TABLE  
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Month	1992	1993	1994	1995	1996	1997	1998 *
ACTUAL VALUES							
J	14 475 661	15 299 940	16 201 243	18 972 369	21 421 828	24 871 254	25 608 553
F	17 521 807	18 649 462	19 696 094	24 073 305	25 724 557	29 162 240	29 303 228
M	18 817 998	20 481 694	21 893 931	26 313 399	27 652 533	29 245 294	31 466 302
A	16 774 488	17 605 375	19 014 509	22 571 092	25 710 889	29 772 571	29 078 382
M	17 535 072	18 354 043	19 563 266	25 355 408	27 699 658	29 927 655	29 775 094
J	17 821 269	19 597 820	21 880 147	25 777 248	27 658 896	29 928 753	31 130 147
J	18 504 264	19 576 619	22 057 569	25 192 348	27 767 486	30 550 077	31 104 216
A	17 288 766	20 370 343	21 743 035	26 600 620	28 946 695	30 746 549	30 231 332
S	18 995 280	20 772 568	23 682 251	27 235 110	28 956 710	30 716 855	32 319 229
O	20 499 991	21 543 028	24 929 760	28 787 305	32 347 379	35 102 246	34 126 742
N	20 494 438	22 076 528	25 922 521	29 279 635	32 321 645	33 014 495	33 612 105
D	16 518 884	17 836 672	20 460 793	23 606 618	25 853 871	27 726 499	28 937 042 1/
YEAR	215 247 918	232 164 092	257 045 119	303 764 457	332 062 147	360 764 488	366 692 372
SEASONALLY ADJUSTED VALUES							
J	17 576 732	18 700 234	19 855 581	23 220 185	26 082 389	30 133 595	30 917 421
F	17 721 831	18 898 099	19 979 329	24 507 932	26 243 574	29 846 334	30 015 623
M	17 644 458	19 206 603	20 552 420	24 813 162	26 212 146	27 900 376	30 111 979
A	17 911 645	18 828 029	20 327 331	24 048 073	27 270 178	31 431 264	30 612 478
M	17 841 391	18 607 055	19 739 449	25 491 675	27 777 147	29 989 991	29 820 979
J	17 621 092	19 379 753	21 649 718	25 504 310	27 384 733	29 669 097	30 899 195
J	18 389 124	19 450 186	21 930 130	25 049 511	27 626 882	30 379 609	30 924 049
A	16 676 472	19 736 582	21 124 935	25 925 914	28 245 957	30 043 081	29 522 067
S	18 032 284	19 734 301	22 566 868	26 088 426	27 837 693	29 625 202	31 260 923
O	18 629 607	19 512 439	22 483 199	25 861 071	28 956 066	31 331 899	30 411 633
N	18 373 676	19 773 263	23 234 447	26 295 044	29 117 952	29 851 303	30 471 719
D	18 663 559	20 131 055	22 992 836	26 427 898	28 751 210	30 715 464	31 994 389

\* Revised

1/ Preliminary

TABLE 4 - VALUE OF SALES - MANUFACTURING : DIVISIONS AND MAJOR GROUPS

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Manufacturing Divisions and major groups	Year	Actual values			Seasonally adjusted values			
		December	November	December	December	November	December	
		1998		1997		1998		1997
		1998	1998	1997	1998	1997	1997	
TOTAL	366 692 372	28 937 042	33 612 105	27 726 499	31 994 389	30 471 719	30 715 464	
Food and food products	57 075 018	4 875 329	5 359 062	4 621 639	4 848 227	4 854 332	4 578 649	
Meat, fish, fruit etc.	16 400 826	1 451 133	1 521 738	1 232 849	1 469 527	1 413 713	1 242 055	
Dairy products	6 691 683	603 039	628 373	616 202	556 378	561 746	569 088	
Grain mill products	15 813 519	1 405 544	1 376 634	1 377 393	1 369 834	1 324 925	1 340 013	
Other food products	18 168 990	1 415 613	1 832 317	1 395 195	1 501 749	1 496 990	1 465 664	
Beverages	19 301 938	2 300 815	1 766 935	2 282 023	1 613 773	1 536 613	1 593 611	
Total textiles	9 610 630	577 548	882 163	564 707	851 606	797 059	832 466	
Textiles	6 558 036	367 278	590 748	362 770	585 838	545 444	578 957	
Other textile products	3 052 594	210 270	291 415	201 937	269 842	251 763	259 205	
Total Wearing apparel	9 612 685	614 556	974 186	644 253	805 220	809 050	844 282	
Knitted, crocheted articles	1 465 356	81 986	128 351	77 912	122 949	120 106	116 918	
Wearing apparel	8 147 329	532 570	845 835	566 341	677 601	688 903	721 363	
Tanning and dressing of leather	1 868 626	88 526	187 305	95 872	134 229	151 483	144 241	
Footwear	2 367 461	153 375	234 980	146 170	218 442	183 952	208 639	
Wood and products of wood	5 924 292	393 780	568 047	394 087	511 923	500 494	511 907	
Sawmilling and planing of wood	1 734 152	98 425	163 630	124 687	121 184	146 037	153 485	
Products of wood	4 190 140	295 355	404 417	269 400	386 050	355 259	351 879	
Paper and paper products	18 230 981	1 422 808	1 652 247	1 502 002	1 480 783	1 529 570	1 566 315	
Total publishing and printing	10 605 499	906 028	1 057 691	777 092	985 028	923 884	843 951	
Publishing	4 207 955	368 136	385 694	333 735	379 768	352 077	346 627	
Printing, recorded media	6 397 544	537 892	671 997	443 357	595 193	565 214	488 388	
Coke and refined petroleum products	19 986 505	1 575 848	1 786 827	1 625 698	1 579 949	1 718 864	1 630 507	
Basic chemicals	16 102 368	1 243 212	1 570 390	1 268 114	1 336 430	1 378 639	1 361 243	
Other chemical products	23 866 666	1 791 418	2 235 441	1 699 592	2 024 904	1 997 131	1 918 961	
Rubber products	4 287 235	294 928	350 922	295 321	337 740	329 081	339 303	
Plastic products	9 125 070	604 262	892 032	600 319	770 234	758 473	764 465	
Glass and glass products	2 290 887	162 961	241 389	163 264	192 961	188 121	193 016	
Other non-metallic mineral products	9 218 438	619 819	831 771	583 084	846 329	761 915	798 716	
Basic iron and steel products	25 451 833	1 953 104	1 895 029	2 066 945	2 119 043	1 887 896	2 243 310	
Basic precious and non-ferrous metal products	12 131 258	1 051 897	1 112 592	996 134	1 105 579	1 089 214	1 051 932	
Fabricated metal products	21 862 408	2 129 442	1 946 169	1 589 019	2 459 349	1 685 554	1 853 185	
Structural metal products	8 563 859	1 259 239	701 522	769 399	1 180 951	603 366	739 143	
Other fabricated metal product	13 298 549	870 203	1 244 647	819 620	1 112 322	1 098 613	1 050 060	
Total machinery and equipment	19 127 738	1 324 121	1 558 914	1 442 661	1 520 814	1 529 508	1 665 269	
General purpose machinery	8 410 807	580 132	724 897	688 720	634 101	698 817	758 467	
Special purpose machinery	8 823 413	637 097	641 024	646 784	733 648	659 823	749 263	
Household appliances	1 893 518	106 892	192 993	107 157	157 195	163 137	154 621	
Electrical machinery, apparatus	11 377 610	771 089	1 075 077	770 774	978 290	956 884	979 302	
Radio, television and communication apparatus	4 413 239	318 240	454 852	234 997	407 851	414 510	299 401	
Professional equipment	983 029	73 170	83 186	89 043	86 089	76 699	105 473	
Motor vehicles; trailers; parts and accessories	33 241 704	2 128 490	2 994 457	1 895 634	2 988 312	2 731 449	2 674 522	
Motor vehicles	23 526 362	1 592 544	2 069 964	1 451 789	2 122 705	1 914 580	1 956 196	
Bodies for motor vehicles; trailers and semi-trailers	1 590 682	103 390	157 251	101 879	136 350	137 216	135 070	
Parts and accessories	8 124 660	432 556	767 242	341 966	713 508	676 150	558 320	
Other transport equipment	1 950 899	141 581	243 676	116 834	171 831	182 954	139 995	
Furniture	5 825 047	429 226	641 908	330 025	522 441	498 758	402 321	
Other manufacturing industries	10 853 308	991 469	1 014 857	931 196	1 034 763	966 900	986 139	

\* Revised

1/ Preliminary

TABLE 5 - VALUE OF UNFILLED ORDERS - SELECTED SUBGROUPS

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Selected Manufacturing Subgroups	Actual values			Seasonally adjusted values		
	December	November *	December	December	November	December
	1998		1997	1998		1997
Spinning, weaving and finishing of textiles	193 334	209 274	248 529	202 282	211 012	259 279
Tents, tarpaulins, sails and other canvas goods and automotive textile goods	9 062	10 410	10 414	9 875	11 533	11 441
Other textile articles	105 114	97 962	61 898	128 166	99 145	75 490
Knitted and crocheted fabrics and articles	134 259	134 196	148 269	135 773	129 031	149 673
Wearing apparel	901 721	992 463	959 083	994 610	991 701	1 056 847
Sawmilling and preserving of timber	13 760	13 556	19 043	15 157	14 130	21 109
Veneer sheets, plywood, laminboard, etc.	11 977	17 836	28 107	13 713	15 194	32 349
Builders' carpentry and joinery	36 883	37 914	25 447	41 856	37 291	28 839
Pulp, paper and paperboard	225 510	218 982	246 505	230 690	208 904	254 720
Corrugated paper and paperboard and containers	321 540	314 704	307 859	311 732	287 752	298 111
Paints, varnishes and coatings	31 049	34 998	10 062	34 050	31 773	11 096
Basic iron and steel products	3 013 570	3 050 223	3 328 725	3 000 849	3 034 047	3 316 273
Steel pipe and tube mills	121 057	168 406	192 416	124 057	161 078	193 550
Basic precious and non-ferrous metal products	1 166 522	1 240 578	1 194 477	1 196 516	1 238 044	1 227 914
Metal structures, parts	1 594 636	1 444 399	1 596 994	1 612 612	1 393 840	1 609 717
Cutlery, hand tools and general hardware	23 712	32 740	30 807	27 424	29 822	35 366
Metal containers, e.g. cans and tins	43 250	47 763	55 669	40 858	45 153	52 578
Cables, wire products, springs	70 146	77 215	73 507	80 506	74 685	83 847
Metal fasteners	19 239	27 213	47 629	21 957	27 927	54 894
All other metal products	920 834	974 751	741 913	1 057 921	1 047 257	850 293
Domestic appliances	38 949	34 634	41 695	38 590	39 276	41 507
Electric motors, generators and transformers	291 887	308 649	187 617	289 894	291 071	186 252
Insulated wire and cables	169 192	176 887	218 949	195 262	200 288	251 224
Accumulators, primary cells and primary batteries	13 056	12 559	13 691	13 467	13 570	13 821
Television, radio and communication apparatus	613 411	626 555	783 142	624 776	620 545	799 143
Motor vehicles	1 479 598	1 481 018	980 151	1 864 470	1 753 564	1 240 416
Parts and accessories for motor vehicles	239 359	289 243	240 615	256 417	304 930	257 369
Furniture	197 751	237 565	167 606	234 815	212 400	199 373

\* Revised