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**Manufacturing:
production and sales
November 1996**

Statistical release P3041.2

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**Embargo: 13:00
Date: 16 January 1997**

Published by the
Central Statistical Service
Private Bag X44
PRETORIA
0001
Tel. (012) 310-8911

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CSS Library Cataloguing-in-Publication (CIP) Data

Manufacturing: production and sales - / Central Statistical Service. - 1996-
Pretoria: Central Statistical Service, 1996-
p. ; 30 cm. (Statistical release; P3041.2)
Series formerly available as: Statistiese nuusberig
= Statistical news release; P3041.2 and P10.2 and
Statistiese vrystelling = Statistical release;
P3041.2
Title continues in English only
Monthly
1. Manufactures. I. South Africa. Central Statistical Service. II. Series.
(LCSH '16)

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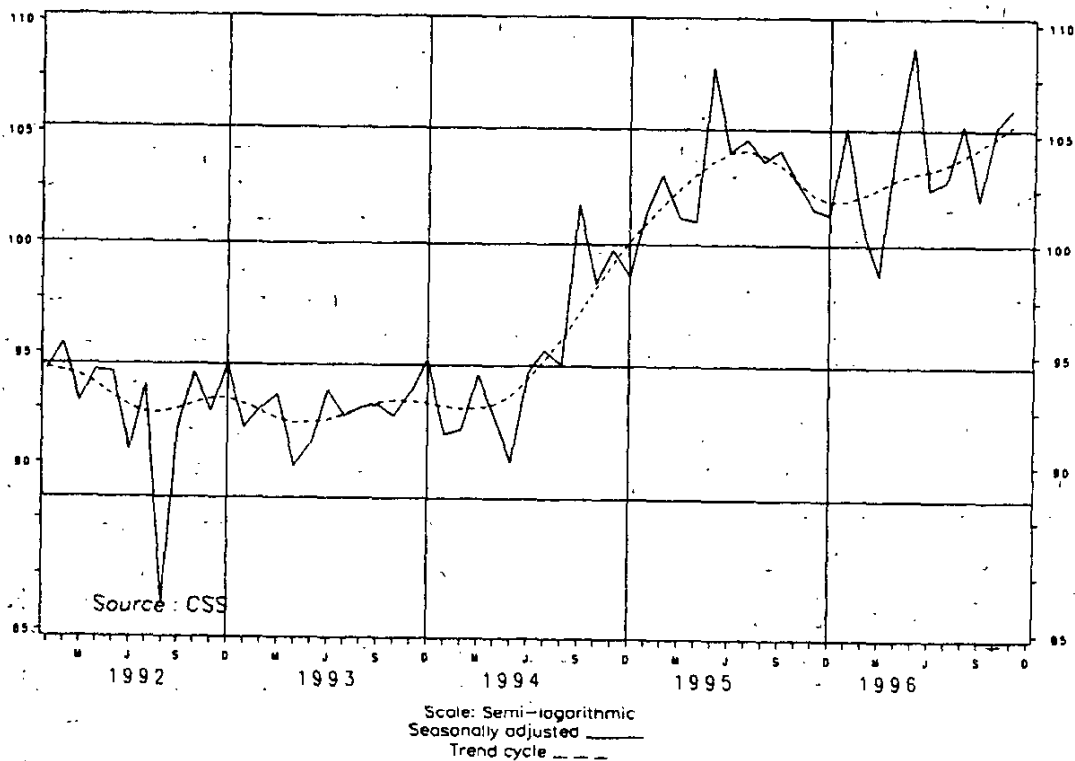
MANUFACTURING PRODUCTION HIGHER

Manufacturing production in November 1996, after allowing for seasonal adjustments, showed an increase for the second consecutive month. The result is that the total production for the last three months up to November 1996, reflects an increase of 0,9% compared with the previous three months.

Higher production was reported in 16 of the 28 manufacturing major groups. The main contributors to the increase were the basic iron and steel industries (contributing +0,4 of a percentage point) and printing, chemical products and plastic products industries (each with +0,1 of a percentage point).

The seasonally adjusted total value of sales of manufactured products increased by 4,4% (+R3 572 million) during the aforementioned period.

MANUFACTURING
PHYSICAL VOLUME OF PRODUCTION
BASE 1990=100
INDEX



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Dr F M Orkin
Head: Central Statistical Service

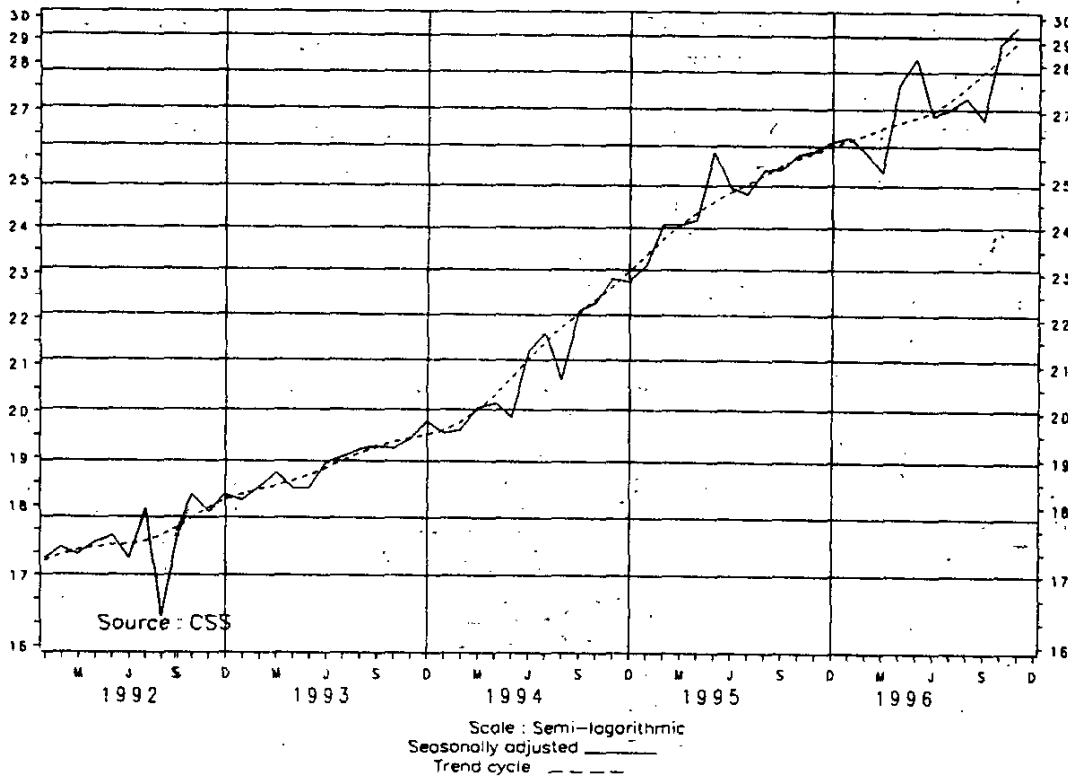
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SUMMARY - TOTAL MANUFACTURING

Period	Production indices	Sales	Percentage change of:	
	1990 = 100	R. mil.	Production indices	Sales
Actual				
Sept. 1996 - Nov. 1996	113,6	92 957,1	+1,5	+9,9
Sept. 1995 - Nov. 1995	111,9	84 565,5		
Seasonally adjusted				
Sept. 1996 - Nov. 1996	104,3	84 654,5	+0,9	+4,4
Jun. 1996 - Aug. 1996	103,4	81 082,8		

MANUFACTURING
VALUE OF SALES
R MILLION



NOTES

1. This statistical release shows indices of the physical volume of manufacturing production and the value of sales and unfilled orders, **after benchmarking**, according to manufacturing major groups. Both actual and seasonally adjusted figures are shown. Sales and production figures for Walvis Bay are excluded as from 1 March 1994. **The former TBVC states are included.**

In order to improve timeliness, some information for the current month may have been estimated due to late response. These estimates will be revised as soon as better information is available.
2. **The results of the 1988 and 1991 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 1998 census year covers the period 1 July 1987 to 30 June 1988 and therefore the benchmarking was done on the index of January 1988).
3. The calculation of the monthly manufacturing indices is based on the value of manufactured products and articles after the effect of price changes has been eliminated by 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 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. The weighting factors for the combining of the production indices for the manufacturing major groups to those for total manufacturing were calculated on the basis of the net output data obtained from the 1991 Manufacturing Census.
5. The 1988 and 1991 manufacturing censuses as well as the sample survey (before 1995) did not include information of the former TBVC states. To make the time series comparable, published and unpublished information for 1988 and 1991 was obtained from Statistical offices of the former TBVC states and has been incorporated. Thereafter, the level of the sample results was raised to link up with the benchmarks. The sample data do not reflect the influence of the cyclic movement of the establishments before January 1995 in the former TBVC states.
6. Production indices for the various manufacturing subgroups that were previously published in the **Bulletin of Statistics** were discontinued as from the indices for January 1993. The production indices on a subgroup basis can be obtained by approximation by deflating the value of sales according to manufacturing subgroups in statistical release P0142.1 (entitled **Production Price Index**) with the production price indices for the relevant manufacturing subgroups.
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 1987 to August 1995 were published in statistical releases P3041.3 (entitled **Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1990=100, January 1987 to August 1995**) and P3041.4 (entitled **Manufacturing statistics: Value of sales, January 1987 to August 1995**).

TABLE 1 - INDICES OF THE PHYSICAL VOLUME OF MANUFACTURING PRODUCTION - TOTAL
HISTORICAL TABLE
BASE 1990 = 100

Month	1990	1991	1992	1993	1994	1995	1996
				ACTUAL INDICES			
J	84.6	82.7	79.7	77.5	77.1	84.4	87.4
F	99.2	95.5	95.2	92.6	91.6	101.5	99.2
M	107.1	100.3	99.0	99.5	100.4	107.3	104.8
A	95.8	97.8	89.8	85.8	87.4	94.6	97.6
M	98.7	94.6	92.6	89.8	89.0	104.8	105.7
J	104.3	97.6	93.4	95.4	96.0	105.3	103.8
J	98.9	96.5	95.1	94.3	97.2	106.2	104.4*
A	105.5	99.4	89.0	96.3	98.0	106.8	108.5**
S	102.9	100.8	96.8	97.7	106.2	108.5	106.3**
O	107.4	103.7	103.6	102.2	108.3	113.1	115.7*
N	111.7	104.7	103.7	104.9	111.7	114.0	118.9
D	84.0	83.0	83.6	84.1	87.1	89.4	
YEAR	100.0	96.4	93.5	93.3	95.8	103.0	
				SEASONALLY ADJUSTED INDICES			
J	99.5	97.8	94.8	92.6	92.4	101.4	105.0
F	100.1	96.2	95.9	93.4	92.5	102.9	100.8
M	101.6	94.9	93.6	93.9	94.7	101.1	98.7
A	99.8	102.6	94.8	91.1	93.1	101.0	104.3
M	101.3	96.9	94.8	92.0	91.3	107.7	108.6
J	101.5	95.5	91.7	94.1	94.7	103.9	102.4
J	98.5	96.0	94.3	93.1	95.7	104.5	102.7
A	101.5	95.8	86.1	93.4	95.1	103.5	105.2
S	97.7	96.2	92.6	93.6	101.7	104.0	101.9
O	99.4	95.4	94.7	93.1	98.4	102.6	105.0
N	101.5	94.6	93.3	94.0	99.7	101.5	105.9
D	96.4	94.8	95.0	95.3	98.7	101.3	

* Revised

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

Manufacturing Major groups	Weights/Year	BASE 1990 = 100						
		Actual indices		Seasonally adjusted indices		Seasonally adjusted indices		
		November 1995	October* 1996	November 1995	October 1996	November 1996	November 1995	
TOTAL	100.0	103.0	118.9	115.7	114.0	105.9	105.0	101.5
Food	12.1	94.1	104.4	105.9	104.0	97.7	98.0	97.5
Beverages	4.7	93.2	112.4	104.8	105.1	98.3	96.9	92.0
Tobacco products	0.5	85.6	97.9	94.5	107.9	80.9	87.1	89.2
Textiles	3.6	101.5	117.4	109.7	105.0	107.4	100.6	96.0
Wearing apparel, excluding footwear	3.0	111.6	126.4	126.3	124.9	104.7	101.9	103.6
Leather and leather product	0.4	109.7	129.0	124.8	128.7	107.1	112.4	106.9
Footwear	1.1	83.3	95.1	86.8	95.3	72.8	69.6	73.0
Wood and wood products, excluding furniture	1.9	102.5	123.2	120.3	112.9	105.5	105.8	96.4
Furniture (wood)	1.6	103.4	159.7	141.0	146.1	120.3	112.3	110.1
Paper and paper products	4.8	112.7	117.2	113.5	121.0	104.6	104.8	107.7
Printing and publishing	3.7	99.1	113.2	106.7	118.5	97.4	96.1	101.8
Industrial chemicals	5.5	103.1	122.2	126.8	109.4	104.2	110.9	93.0
Chemical products, excluding products of petroleum and coal	5.9	105.7	126.6	120.5	125.2	110.0	110.7	108.9
Products of petroleum and coal	6.5	140.2	149.0	147.6	149.4	144.1	146.7	143.7
Rubber products	1.6	96.0	92.8	92.6	107.5	83.0	83.7	95.4
Plastic products	2.6	115.6	143.5	141.8	133.2	124.1	122.4	115.4
Pottery	0.2	84.1	87.3	75.3	82.7	84.2	66.2	79.2
Glass and glass products	1.2	96.8	105.2	97.4	112.0	92.7	85.0	98.3
Other non-metallic mineral products	3.3	94.3	113.1	110.6	101.8	99.6	100.2	89.7
Basic iron and steel industries	6.6	95.7	96.2	98.9	95.2	93.6	93.9	92.1
Basic non-ferrous metal industries	2.1	123.3	210.0	185.3	157.7	195.8	173.5	147.3
Metal products, excluding machinery and equipment	7.2	97.7	120.1	109.9	119.2	101.6	101.6	101.4
Electrical machinery	6.1	97.3	122.9	115.4	106.6	114.4	107.1	99.9
Motor vehicles, parts and accessories	4.6	98.0	104.5	101.9	107.5	90.7	91.2	93.4
Transport equipment, excluding motor vehicles, parts and accessories	6.4	115.0	119.3	125.4	113.4	105.6	108.4	100.6
Professional and scientific measuring and controlling equipment and photographic and optical goods	1.3	51.5	68.9	62.8	50.7	67.2	59.1	49.5
Other manufacturing industries	0.4	114.9	127.9	120.8	128.2	105.1	110.2	105.8
	1.1	78.6	106.1	103.1	85.0	86.3	82.7	68.4

* Revised

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

Month	1990	1991	1992	1993	1994	1995	1996*
J	12 344 911	13 708 350	14 272 233	14 998 362	15 912 227	18 700 767	21 188 560
F	14 855 596	16 199 300	17 283 659	18 333 144	19 357 694	23 673 858	25 383 597
M	16 227 765	17 342 242	18 525 218	20 150 829	21 551 931	25 924 205	27 335 184
A	14 608 814	16 772 148	16 505 479	17 254 205	18 651 788	22 298 150	25 409 079
M	15 348 016	16 477 477	17 231 407	18 012 417	19 233 392	24 995 708	27 374 110
J	16 090 710	16 958 515	17 538 365	19 268 744	21 525 205	25 448 686	27 397 301
J	15 440 139	17 036 380	18 214 731	19 213 267	21 741 546	24 978 840	27 186 001
A	16 748 459	17 675 490	17 005 339	19 995 824	21 418 529	26 376 892	28 302 441
S	16 394 505	18 123 577	18 710 826	20 413 391	23 362 473	26 910 501	28 250 972
O	17 415 854	18 608 654	20 155 870	21 183 241	24 565 955	28 536 824	31 817 137
N	18 190 996	18 784 906	20 129 846	21 707 573	25 567 815	29 118 197	32 889 040
D	13 719 535	14 972 366	16 227 436	17 499 456	20 152 607	23 160 474	
YEAR	187 385 300	202 659 405	211 800 409	228 030 455	253 036 162	300 123 102	

SEASONALLY ADJUSTED VALUES							
J	14 679 347	16 435 406	17 269 959	18 305 562	19 544 855	23 091 217	26 223 423
F	15 054 072	16 386 320	17 466 698	18 541 749	19 611 048	24 068 968	25 846 671
M	15 311 629	16 294 699	17 349 450	18 793 213	20 035 004	24 056 025	25 349 338
A	15 265 978	17 687 392	17 569 899	18 521 896	20 137 026	24 164 864	27 589 150
M	15 753 837	16 883 977	17 678 875	18 528 385	19 855 840	25 864 714	28 352 754
J	15 828 561	16 705 291	17 275 074	18 977 188	21 154 196	24 953 731	26 823 189
J	15 446 592	17 014 330	18 145 254	19 096 613	21 580 211	24 793 226	26 989 311
A	16 013 914	16 924 089	16 315 731	19 225 704	20 604 161	25 398 662	27 270 326
S	15 445 982	17 108 943	17 680 292	19 300 586	22 065 133	25 417 603	26 681 072
O	16 069 581	17 080 193	18 396 645	19 242 595	22 233 233	25 782 421	28 747 891
N	16 482 811	16 934 855	18 074 745	19 424 201	22 795 222	25 892 223	29 225 495
D	15 667 040	17 041 270	18 397 964	19 766 904	22 732 174	26 105 947	

* Revised

TABLE 4 - VALUE OF SALES - MANUFACTURING MAJOR GROUPS

Manufacturing Major Groups	Year	Actual values				Seasonally adjusted values			
		1995		1996		1996		1995	
		November	October	November	October	November	October	November	October
TOTAL	300 123 102	32 889 040	31 817 137	29 118 197	29 225 495	28 747 891	25 892 223	25 892 223	
Food	41 367 362	4 614 687	4 608 273	3 934 657	4 248 669	4 237 084	3 635 373	3 635 373	
Beverages	15 770 582	1 735 812	1 567 553	1 504 943	1 540 656	1 483 611	1 337 831	1 337 831	
Tobacco products	3 155 057	316 825	319 677	329 887	271 407	285 239	281 619	281 619	
Textiles	10 132 888	1 069 619	998 220	913 370	981 638	916 272	838 102	838 102	
Wearing apparel, excluding footwear	7 818 055	810 282	853 638	804 458	656 340	673 096	654 625	654 625	
Leather and leather product	1 548 661	176 723	159 388	153 813	143 916	139 913	125 436	125 436	
Footwear	2 435 313	257 883	250 003	254 922	191 476	193 155	189 576	189 576	
Wood and wood products, excluding furniture	4 389 597	490 287	486 206	430 418	414 108	426 085	362 744	362 744	
Furniture (wood)	4 374 981	591 443	542 936	531 606	439 321	425 418	394 116	394 116	
Paper and paper products	15 728 016	1 444 609	1 494 238	1 534 928	1 289 460	1 352 314	1 366 074	1 366 074	
Printing and publishing	9 243 199	967 625	918 137	969 048	838 177	825 309	839 653	839 653	
Industrial chemicals	15 309 738	1 728 114	1 736 052	1 505 406	1 479 851	1 499 986	1 285 751	1 285 751	
Chemical products, excluding products of petroleum and coal	15 894 568	1 692 390	1 681 411	1 566 248	1 517 026	1 520 497	1 402 008	1 402 008	
Products of petroleum and coal	16 180 255	1 767 561	1 693 265	1 389 566	1 765 348	1 670 468	1 382 690	1 382 690	
Rubber products	3 632 824	352 106	335 437	344 219	309 700	286 143	302 576	302 576	
Plastic products	8 082 685	922 023	889 845	837 633	789 275	768 565	718 640	718 640	
Pottery	285 938	28 486	25 166	22 072	27 659	23 217	21 420	21 420	
Glass and glass products	2 374 260	240 161	238 417	253 407	194 675	196 437	205 087	205 087	
Other non-metallic mineral products	7 630 862	844 034	840 563	709 683	742 278	737 078	624 445	624 445	
Basic iron and steel industries	19 185 844	1 808 694	1 835 004	1 681 312	1 768 230	1 737 773	1 637 660	1 637 660	
Basic non-ferrous metal industries	7 185 090	1 083 549	942 025	689 802	1 036 408	854 425	659 991	659 991	
Metal products, excluding machinery and equipment	20 312 892	2 154 811	2 105 748	2 465 750	1 835 351	1 954 672	2 110 376	2 110 376	
Machinery and equipment	16 308 111	1 960 088	1 830 146	1 554 848	1 832 991	1 624 673	1 461 179	1 461 179	
Electrical machinery	12 483 948	1 262 803	1 162 510	1 173 199	1 095 175	1 069 001	1 018 350	1 018 350	
Motor vehicles, parts and accessories	33 494 009	3 490 216	3 647 526	2 961 373	3 032 587	3 102 190	2 582 101	2 582 101	
Transport equipment, excluding motor vehicles, parts and accessories	1 501 637	142 118	141 797	136 671	125 668	137 066	121 455	121 455	
Professional and scientific measuring and controlling equipment and photographic and optical goods	1 062 635	111 980	97 150	102 781	93 696	90 520	86 243	86 243	
Other manufacturing industries	3 233 095	419 534	399 994	362 177	316 017	316 522	271 938	271 938	

Revised

TABLE 5 - VALUE OF UNFULFILLED ORDERS - SELECTED SUBGROUPS

Selected Manufacturing Subgroups	Actual values		Seasonally adjusted values	
	1996		1996	
	November	October*	November	October
Spinning, weaving and finishing of textiles	320 884	314 212	310 433	315 250
Soft furnishings	64 768	72 719	72 682	70 154
Tents, tarpaulins, sails and other canvas goods and automotive textiles	8 726	9 926	8 805	9 111
Knitting mills	180 013	187 105	156 828	168 797
Clothing	1 046 368	1 085 102	1 025 827	1 033 801
Sawmilling from the round log	19 692	22 244	22 245	22 440
Board - laminated, plywood, particle, etc.	41 754	40 279	29 540	38 003
Carpentry and joinery and other sawmill products	39 483	44 816	26 883	43 555
Furniture (wood)	335 874	396 007	328 539	294 258
Pulp, paper and paperboard	265 314	247 340	177 404	248 342
Light and heavy packaging	367 747	351 822	352 813	313 064
Paints and varnishes	17 843	21 344	17 350	17 481
Basic iron and steel industries	2 925 338	2 864 747	2 647 254	2 773 310
Steel pipe and tube mills	426 018	420 823	259 886	441 765
Basic non-ferrous metal industries	659 581	661 255	620 912	688 900
General hardware, handtools and cutlery	32 400	28 762	32 806	28 235
Furniture (metal)	43 636	42 216	66 190	41 571
Structural metal products	1 439 518	1 375 666	1 177 841	1 343 926
Tinware	90 226	73 650	67 355	88 697
Cables and wire products	56 264	64 749	80 843	51 637
Headed and threaded articles	94 532	86 014	94 848	110 927
All other metal products	903 747	951 068	882 388	988 735
Electrical industrial machinery and apparatus	865 118	868 385	979 920	866 847
Radio, television and communication equipment	710 406	699 296	880 199	693 922
Electrical appliances and housewares	22 545	25 380	15 193	24 448
Insulated wire and cables	162 015	164 426	222 052	163 927
Dry and wet cell batteries	9 046	10 438	10 397	11 459
Other electrical goods	60 983	67 585	45 259	57 883
Motor vehicles	1 815 535	1 907 049	1 407 393	2 204 469
Motor vehicle parts	389 656	453 744	345 468	451 690

* Revised