

ELECTRONICS INDUSTRY AND HOUSEHOLD ELECTRICAL APPLIANCES INDUSTRY STATISTICAL REVIEW

THIRD QUARTER, 1985

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Electronics Directorate Regional Industrial Expansion February 1986

Source of Statistics - Statistics Canada

ELECTRONICS INDUSTRY

Highlights - Third Quarter 1985

For the first three quarters of 1985, the Canadian electronics industry exhibited relatively strong performance while facing an apparent domestic market that was largely flat. Compared to 1984, shipments were up by nearly 13 per cent, most of which growth was destined for export markets. All sub-sectors, except office and store machinery, contributed to this growth.

Employment levels were up only marginally from the previous quarter but down slightly more than one per cent from a year earlier.

Total shipments of the communications equipment and components sector for the third quarter of 1985 were \$897 million and totalled \$2 851 million for the year to date. By comparison, imports for this quarter stood at \$771 million while exports stood at \$688 million. Imports for the first three quarters now stand at \$2 389 million while exports for the comparable period total \$2 154 million. Canada's cumulative trade deficit in this sector is now at \$235 million for 1985. This deficit is less than half the deficit for the same period in 1984. A slight decline in the trade surplus for communications equipment was more than offset by a 36 per cent improvement in the trade deficit for integrated circuits and a 16 per cent improvement in the deficit for other electronic components.

Exports from Canada in the **office and store machinery** sector declined by 6.3 per cent in the third quarter reflecting current market difficulties in the U.S. Imports dropped by 1.8 per cent indicating a strong market in Canada and the integrated nature of the international companies in the sector. For similar reasons, shipments declined more rapidly than market size (11.8 per cent vs. 3.3 per cent). A comparison of the first three quarters of 1985 to 1984 shows the trade position improving as exports increased and imports fell 2.7 per cent.

The major commodity within this sector is electronic computers and parts. Exports in the third quarter fell substantially (20.3 per cent for exports to the U.S.). Imports in the third quarter were down 17.5 per cent indicating a slowing of market growth in Canada. However, an improvement in exports indicate perhaps the beginning of a recovery in the U.S. market.

The overall market (in dollars) for radio and television increased sharply in the third quarter of 1985, largely in response to substantial jumps in T.V. and tape player (mostly VCRs) imports in preparation for the fall and Christmas buying seasons. In dollar value, 81 per cent of all tape recorders (audio and video) came from Japan which also accounted for almost 40 per cent of colour sets of less than 19 inches (a 150 per cent increase over the second quarter of 1985); the U.S.

increased its exports of colour sets of more than 19 inches to Canada by 53 per cent, thereby taking 53 per cent of this import market. In black and white sets, Korea boosted its exports of small sets to Canada by 77 per cent in this quarter. During this same period, the Canadian T.V. manufacturers had been preparing their cases for the Import Tribunal and the Tariff Board hearings on dumping of colour sets by Koreans and the permanent withdrawal of the GPT rate of free for these sets. On the export front, despite Canadian exports of colour sets being slightly off in this quarter from the record high registered in the previous quarter, the first nine months of 1985 witnessed an increase of almost 80 per cent over the same period in 1984. The U.S. took in more than 97 per cent of Canadian T.V. exports during this period.

In the third quarter of 1985 shipments of **instruments** continued at almost the same level to those of the second quarter, amounting to \$134.0 million. The first three quarters shipments, at \$406.0 million, were 13.1 per cent above the corresponding figure for 1984. The Apparent Domestic Market for the third quarter of 1985 increased by 5.5 per cent over the second quarter and amounted to \$305.0 million. The exports in the third quarter were below those of the second quarter but were still 11.5 per cent higher than the corresponding figure for 1984.

TABLE 1

ELECTRONIC PRODUCTS

THIRD QUARTER BY INDUSTRIAL SECTORS

	19 3rd Qtr	85 2nd Qtr	1984 3rd Qtr	% Cl	nange Annual
		\$ Millions			
COMMUNICATIONS EQUIPMENTS	PMENT				
ADM *Shipments Trade Surplus (Deficit)	980 897 (83)	1 058 990 (68)	970 828 (142)	(7.4) (9.4) 22.1	1.0 8.3 (41.5)
Exports Imports	688 771	753 821	674 816	(8.6) (6.1)	2.1 (5.5)
OFFICE & STORE MACH	INERY				
ADM *Shipments Trade Surplus	961 321 (640)	994 364 (630)	1 076 393 (683)	(3.3) (11.8) 1.6	(10.7) (18.3) (6.3)
(Deficit) Exports Imports	448 1 088	478 1 108	483 1 166	(6.3) (1.8)	(7.2) (6.7)
RADIO AND TELEVISION	N .				
ADM *Shipments Trade Surplus (Deficit)	439 145 (294)	365 132 (233)	468 124 (344)	20.3 9.8 26.2	(6.2) 16.9 (14.5)
Exports Imports	45 339	59 292	39 383	(23.7) 16.1	15.4 (11.5)
INSTRUMENTS					
ADM *Shipments Trade Surplus (Deficit)	305 134 (171)	289 136 (153)	252 114 (138)	5.5 (1.5) 11.8	21.0 17.5 23.9
Exports Imports	58 229	62 215	52 190	(6.5) 6.5	11.5 20.5
TOTAL					
ADM *Shipments Trade Surplus (Deficit)	2 685 1 497 (1 188)	2 706 1 622 (1 084)	2 766 1 459 (1 307)	(0.8) (7.7) 9.6	(2.9) 2.6 (9.1)
Exports Imports	1 239 2 427	1 352 2 436	1 248 2 555	(8.4) (0.4)	(0.7) (5.0)

^{*}Shipments - goods of own mfr. classified by the 1980 S.I.C.

TABLE 2

ELECTRONIC PRODUCTS

THIRD QUARTER BY COMMODITY EXPORTS AND IMPORTS

		1985		198	34	% C1	nange
	3rd Qt	r 2nd	Qtr	3rd	Qtr	<u> Qtr</u>	Annual
		\$ (000	· · · · · · · · · · · · · · · · · · ·	• •• ••		
COMMUNICATIONS EQUI	PMENT						
Exports Imports Trade Surplus (Deficit)	415 80 242 29 173 51	2 230	881 975 906	427 209 217		(0.7) 4.9 (7.7)	(2.7) 15.4 (20.2)
ELECTRONIC COMPONEN	rs						
Exports Imports Trade Surplus (Deficit)	271 69 529 08 (257 39	8 589	193 652 459)	605	885 593 708)	(18.7) (10.3) 0.8	10.1 (12.6) (28.2)
TELEPHONE APPARATUS EQUIPMENT & PARTS							
Exports Imports Trade Surplus (Deficit)	197 19 61 51 135 68	.4 61	388 525 863	57		(6.7) (0.02) (9.5)	(3.4) 7.7 (7.7)
PRINTED CIRCUIT BOA	RDS						
Exports Imports Trade Surplus (Deficit)	12 86 11 97 89	0 9	872 095 777	11	967 961 (994)	(7.3) 31.6 (81.2)	17.3 0.08
ELECTRONIC COMPUTER	S & PART	.s					
Exports Imports Trade Surplus (Deficit)	442 61 951 94 (509 32	.2 472 90 965 (8) (492	584 314 1 730)	021	507 411 904)	(6.3) (1.4) 3.4	(6.9) (6.8) (6.7)
INTEGRATED CIRCUITS & SEMI-CONDUCTORS & PARTS							
Exports Imports Trade Surplus (Deficit)	181 39 278 40 (97 00	0 326	602 264 662)	337	991 571 580)	(20.3) (14.7) (1.7)	19.3 (17.5) (47.7)

TABLE 2 (Cont'd)

ELECTRONIC PRODUCTS

THIRD QUARTER BY COMMODITY EXPORTS AND IMPORTS

		985	1984	% C	hange	
	3rd Qtr	2nd Qtr	3rd Qtr	Qtr	Annual	
		\$ 000				
TAPE PLAYERS, RECORDS (EXC. PTS.)	ERS					
Exports Imports Trade Surplus (Deficit)	127 113	93 376 -	N.A. 171 095 -	36 <u>.</u> 1	(25.7)	
TELEVISION SETS						
Exports Imports Trade Surplus (Deficit)	15 922 60 991 (45 069)	17 827 43 704 (25 877)	15 740 67 812 (52 072)	(10.7) 39.6 74.2	1.2 (10.1) (13.4)	
RADIOS						
Exports Imports Trade Surplus (Deficit)	1 879 60 864 (58 985)	1 900 71 143 (69 243)	2 020 57 572 (55 552)	(1.1) (14.4) (14.8)	(7.0) 5.7 6.2	
COMBINATION RADIO- PHONOGRAPH SETS						
Exports Imports Trade Surplus (Deficit)	25 812 81 454 (55 642)	37 765 77 643 (39 878)	20 012 80 780 (60 768)	(31.7) 4.9 39.5	29.0 0.8 (8.4)	
GEOPHYSICAL & MINERAI PROSPECTION EQUIPMENT						
Exports Imports Trade Surplus (Deficit)	8 587 64 671 (56 084)	11 241 43 117 (31 876)	9 834 35 047 (25 213)	(23.6) 50.0 75.9	(12.7) 84.5 122.4	
COMMERCIAL COMMUNICATIONS EQUIPMENT N.E.S.						
Exports Imports Trade Surplus (Deficit)	111 064 85 951 25 113	99 468 78 999 20 469	86 287 68 555 17 732	11.7 8.8 22.7	28.7 25.4 41.6	
PHOTOCOPY AND SIMILAR	R MACHINES	& PARTS				
Exports Imports	N·A. 68 396	N.A. 76 690	N·A. 74 362	(10.8)	(8.0)	

TABLE 3

ELECTRONIC PRODUCTS

FIRST THREE-QUARTER YEAR BY INDUSTRIAL SECTORS

	1985	1984	% Change
	\$ Millio	ons	
COMMUNICATIONS EQUIPMENT AND COMPONENTS			
ADM Shipments Trade Surplus (Deficit) Exports Imports	3 087 2 851 (236) 2 154 2 390	2 933 2 454 (479) 1 907 2 386	5.3 16.2 (50.7) 13.0 0.2
OFFICE AND STORE MACHINERY	Y		
ADM Shipments Trade Surplus (Deficit) Exports Imports	3 038 1 065 (1 973) 1 377 3 350	3 161 1 023 (2 138) 1 305 3 443	(3.9) 4.1 (7.7) 5.5 (2.7)
RADIO AND TELEVISION			
ADM Shipments Trade Surplus (Deficit) Exports Imports	1 183 402 (781) 155 936	1 244 348 (896) 116 1 012	(4.9) 15.5 (12.8) 33.6 (7.5)
INSTRUMENTS			
ADM Shipments Trade Surplus (Deficit) Exports Imports	906 406 (500) 172 672	789 359 (430) 144 574	14.8 13.1 16.3 19.4 17.1
TOTAL			
ADM Shipments Trade Surplus (Deficit) Exports Imports	8 214 4 724 (3 490) 3 858 7 348	8 127 4 184 (3 943) 3 472 7 415	1.1 12.9 (11.5) 11.1 (0.9)

TABLE 4

ELECTRONIC PRODUCTS

FIRST THREE-QUARTER YEAR BY COMMODITY EXPORTS AND IMPORTS

	1985	<u> </u>		1984	4	% Change	
		\$	000				
COMMUNICATIONS EQUIPMENT							
Exports Imports Trade Surplus (Deficit)		817 054 763		617	465 721 744	3.7 12.5 (5.7)	
ELECTRONIC COMPONENTS							
Exports Imports Trade Surplus (Deficit)	1 695		1	768	434 610 176)	28.5 (4.1) (26.1)	
TELEPHONE APPARATUS EQU	IP. AND	PTS.					
Exports Imports Trade Surplus (Deficit)	179	326 478 848		172	821 006 815	8.5 4.3 10.3	
PRINTED CIRCUIT BOARDS							
Exports Imports Trade Surplus (Deficit)	30	572 239 333		32	087 344 257)	27.3 (6.5)	
ELECTRONIC COMPUTERS &	PTS.						
Exports Imports Trade Surplus (Deficit)	1 360 2 927 (1 567	709	2	976	032 792 760)	8.3 (1.6) (8.9)	
INTEGRATED CIRCUITS AND SEMI-CONDUCTORS & PTS.							
Exports Imports Trade Surplus (Deficit)		077 406 329)		964	792 815 023)	33.5 (3.4) (36.2)	
TAPE PLAYERS, RECORDERS (EXC. PTS.)							
Exports Imports Trade Surplus (Deficit)	357	nil 602		403	ni1 323	nil (11.3)	

TABLE 4 (Cont'd)

ELECTRONIC PRODUCTS

FIRST THREE-QUARTER YEAR BY COMMODITY EXPORTS AND IMPORTS

	198.	5	1984	4	% Change
		\$ 000		00 	
TELEVISION SETS					
Exports Imports Trade Surplus (Deficit)	150	983 138 155)	191	300 816 516)	42.8 (21.7) (35.8)
RADIOS					
Exports Imports Trade Surplus (Deficit)	183	534 470 936)	184	941 418 477)	(49.4) (0.5) 2.6
COMBINATION RADIO- PHONOGRAPH SETS					
Exports Imports Trade Surplus (Deficit)	224	290 870 580)	213	474 913 439)	44.2 5.1 (12.9)
GEOPHYSICAL AND MINERAL PROSP.					
Exports Imports Trade Surplus (Deficit)	155	067 838 771)	113	843 295 452)	4.7 37.6 47.2
COMMERCIAL COMMUNICATIONS					
Exports Imports Trade Surplus (Deficit)	230	493 635 858	204	187 624 563	12.8 12.7 13.1

TABLE 5

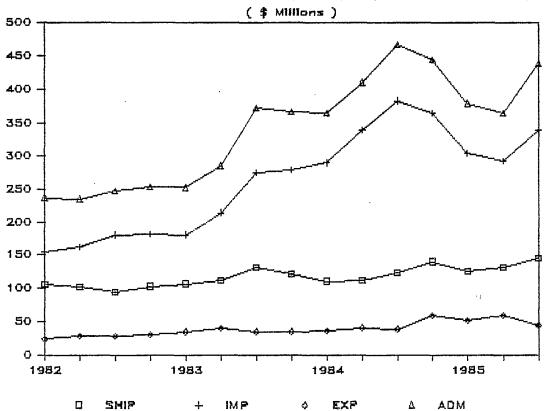
ELECTRONIC PRODUCTS

NUMBER OF EMPLOYEES BY INDUSTRIAL SECTORS

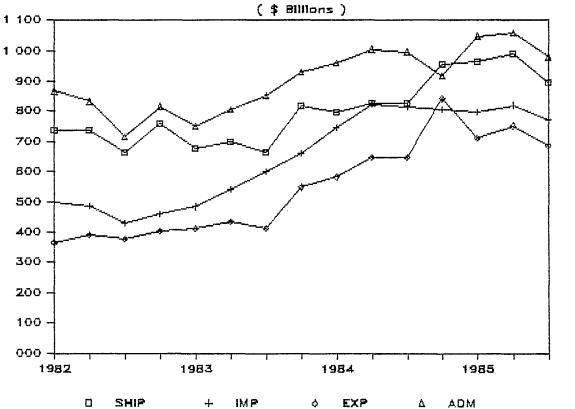
INDUSTRIAL SECTORS	NUMBER OF	EMPLOYEES
	As At September 1985	As At September 1984
Radio and Television	3 997	3 930
Communications Equipment & Components	47 450	47 394
Office & Store Machinery	15 450	14 238
Instruments (estimated)	17 527	19 935
	84 424	85 497

SOURCE: Employment, Earnings and Hours - Cat. No. 72-002. Statistics Canada.

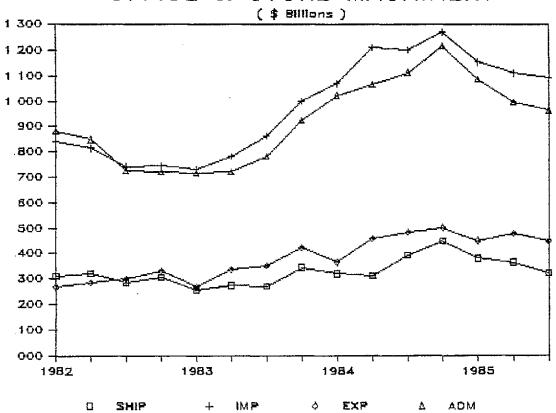
HOUSEHOLD RADIOS & TELEVISIONS



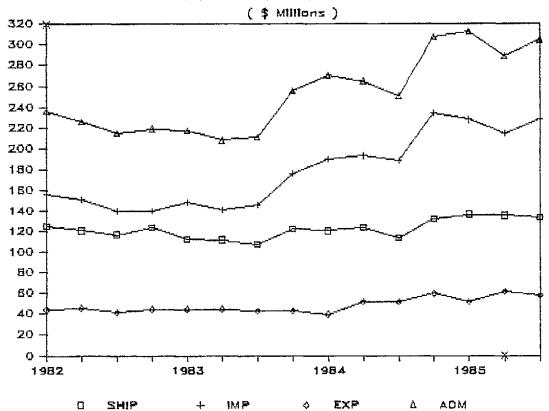
COMMUNICATIONS EQUIP. & COMPONENTS



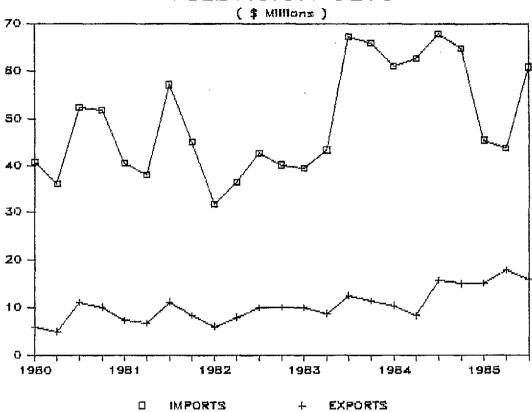
OFFICE & STORE MACHINERY

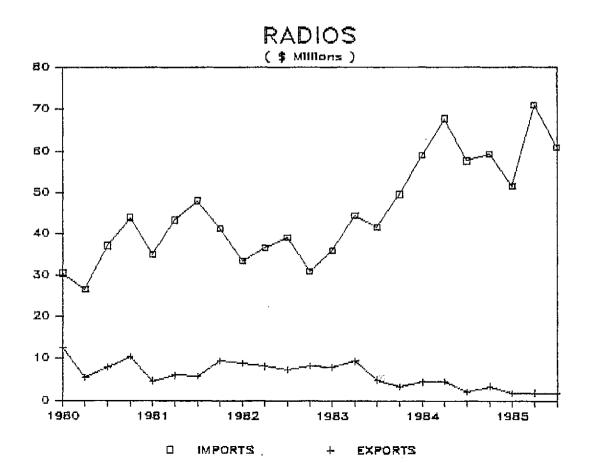


INSTRUMENTATIONS

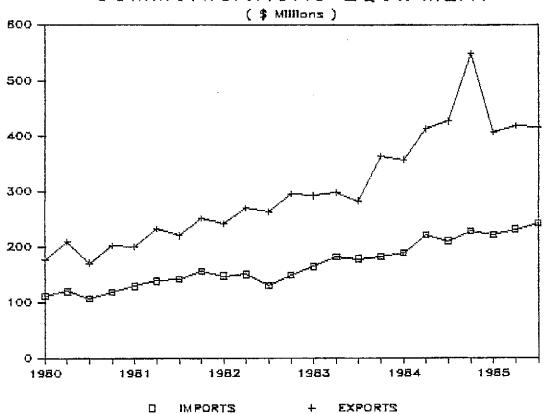


TELEVISION SETS

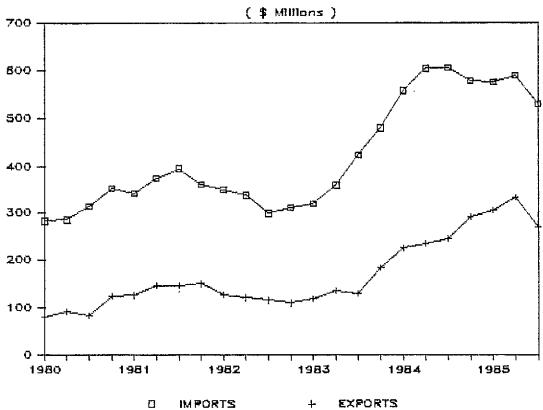




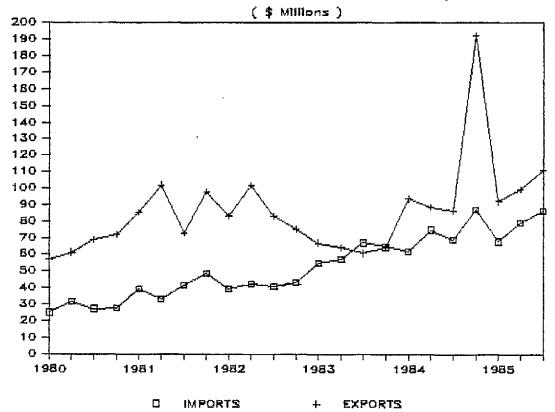
COMMUNICATIONS EQUIPMENT



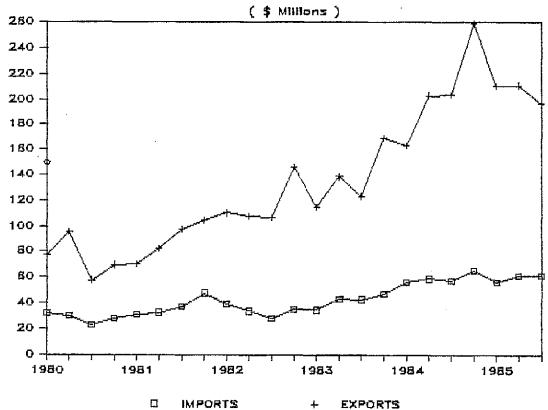




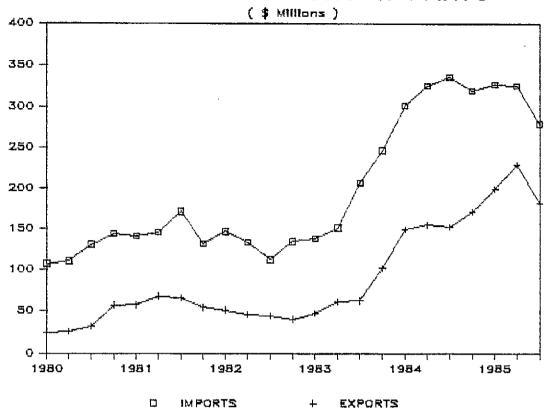
COMMERCIAL COMMUNICATIONS EQUIP. & PT



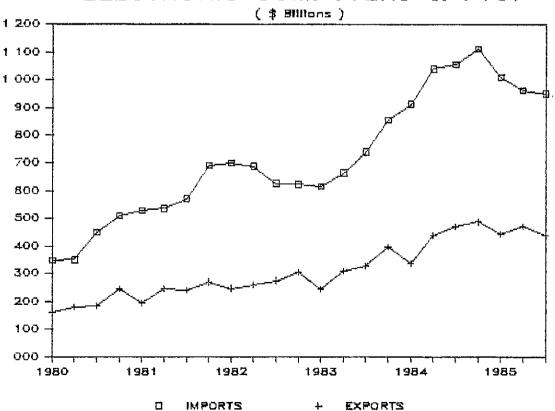
TELEPHONE APPARATUS & PARTS



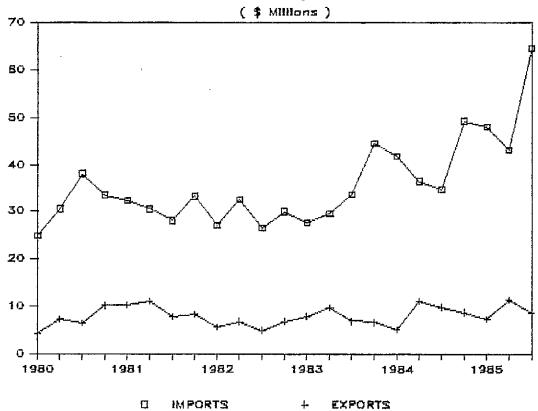
SEMI-CONDUCTORS & PARTS

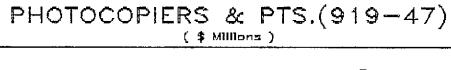


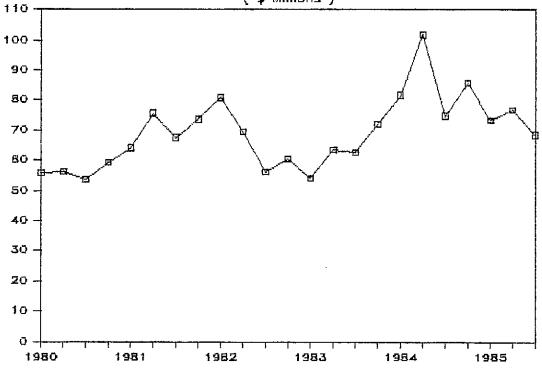
ELECTRONIC COMPUTERS & PTS.



GEOPHYSICAL EQUIP. & PARTS







IMPORTS

HOUSEHOLD ELECTRICAL PRODUCTS

Highlights - Third Quarter, 1985

Industrial Sectors (See Table 6, page 18)

In the third quarter of 1985, Canadian demand (ADM) for household electrical products witnessed an increase of 7.6 per cent, a slight decrease from the second quarter. Exports were down considerably at 17.4 per cent while imports rose by 17.3 per cent, increasing the trade deficit by a substantial 32.5 per cent. Most of the export activity was in the United States in refrigerators, and most of the imports were dishwashers from the U.S.

The small appliance market saw an increase in ADM of 15.2 per cent while shipments increased by 0.9 per cent. The strong second quarter softened slightly as expected. Imports rose by 24.8 per cent, increasing the trade deficit by 28.1 per cent. In spite of this there is a certain note of optimism currently existing in this industry sub-sector. With the present trend of product rationalization and product mandating, strengths are being developed in specific product lines which are helping to reduce imports.

The major appliance industry got off to a slow third quarter in 1985. The ADM was up 2.0 per cent and shipments were down 4.1 per cent while imports were up 6.5 per cent. Exports, however, decreased by 19.3 per cent, increasing the trade deficit by 47.2 per cent. Following the disaster of 1982 the market bounced back in 1983, and 1984 succeeded in sustaining this trend although very tentatively. In 1985 to date, the industry is struggling with an ADM increase of only 1.6 per cent, a 1.9 per cent decrease in shipments and a 23.3 per cent increase in the deficit. Exports were up only 2.2 per cent with imports having increased by 12.5 per cent. This is a source of some apprehension to manufacturers, with the GATT tariff rate agreed reduction on major appliances from 20 per cent to 12.5 per cent in 1987 coming ever closer.

Commodity Exports and Imports (See table 7, page 19)

Trade in refrigerators and freezers in the third quarter indicated a slight weakening in exports compared with the second quarter, showing a decrease of 5.2 per cent while imports increased a more moderate 10.0 per cent, resulting in a trade deficit of 32.4 per cent. This softening trend in export strength, especially in the U.S., should reverse itself. In the area of washing machines, which is normally a volatile market, exports dropped 12.0 per cent while imports decreased a moderate 8.9 per cent. It appears that this market had stabilized, so this must be watched very closely. Principal washing machine imports are from the U.S., approximately 80 per cent, followed by Japan.

TABLE 6 HOUSEHOLD ELECTRICAL PRODUCTS THIRD QUARTER BY INDUSTRIAL SECTORS

	1985		1984	% Change	
	3rd Qtr	2nd Qtr	3rd Qtr	Qtr	Annual
	~*************************************	Millions	ag - g - g - g - g - g - g - g - g - g -		
MAJOR APPLIANCES					
ADM *Shipments Trade Surplus (Deficit)	312 259 (53)	306 270 (36)	307 264 (43)	2.0 (4.1) 47.2	1.6 (1.9) 23.3
Exports Imports	46 99	57 93	45 88	(19.3) 6.5	2.2 12.5
SMALL APPLIANCES					
ADM *Shipments Trade Surplus (Deficit)	266 111 (155)	231 110 (121)	256 117 (139)	15.2 0.9 28.1	3.9 (5.1) 11.5
Exports Imports	11 166	12 133	10 149	(8.3) 24.8	10.0 11.4
TOTAL					
ADM Shipments Trade Surplus (Deficit)	578 370 (208)	537 380 (157)	563 381 (182)	7.6 (2.6) 32.5	2.7 (2.9) 14.3
Exports Imports	57 265	69 226	55 237	(17.4) 17.3	3.6 11.8

SOURCE: Inventories, Shipments and Orders in Manufacturing Industries - Cat. No. 31-001 Imports by Commodities - Cat. No. 65-007 Exports by Commodities - Cat. No. 65-004 Statistics Canada.

^{*}Shipments - Goods of own mfr. - classified by the 1980 S.I.C.

TABLE 7
HOUSEHOLD ELECTRICAL PRODUCTS
THIRD QUARTER BY COMMODITY EXPORTS AND IMPORTS

	1	.985	1984	% C1	hange
	3rd Qtr	2nd Qtr	3rd Qtr	Qtr	Annual
		\$ 000			
REFRIGERATORS AND FREEZERS					
Exports Imports Trade Surplus (Deficit)	8 735 10 074 (1 339)	9 212 11 194 (1 982)	8 513 9 335 (822)	(5.2) (10.0) (32.4)	2.6 7.9 62.9
ELECTRIC WASHING MACHINES AND PARTS					
Exports Imports Trade Surplus (Deficit)	1 706 13 589 (11 883)	1 938 14 916 (12 978)	2 038 11 071 (9 033)	(12.0) (8.9) (8.4)	(16.3) 22.7 31.6

TABLE 8 HOUSEHOLD ELECTRICAL PRODUCTS FIRST THREE-QUARTER YEAR BY INDUSTRIAL SECTORS

	1985	1984	% Change
600 MO MO MO MO	\$ Millions	Cast and and and and and and and	
MAJOR APPLIANCES			
ADM Shipments Trade Surplus (Deficit) Exports Imports	872 751 (121) 161 282	888 764 (124) 141 265	(1.8) (1.7) (2.4) 14.2 6.4
SMALL APPLIANCES			
ADM Shipments Trade Surplus (Deficit) Exports Imports	709 330 (379) 34 413	656 308 (348) 27 375	8.1 7.1 8.9 25.9 10.1
TOTAL			
ADM Shipments Trade Deficit Exports Imports	1 581 1 081 (500) 195 695	1 544 1 072 (472) 168 640	2.4 0.8 5.9 16.1 8.6

SOURCE: Inventories, Shipments and Orders in Manufacturing Industries - Cat. No. 31-001 Imports by Commodities - Cat. No. 65-007 Exports by Commodities - Cat. No. 65-004 Statistics Canada.

TABLE 9

HOUSEHOLD ELECTRICAL PRODUCTS

FIRST THREE-QUARTER YEAR BY COMMODITY EXPORTS AND IMPORTS

<u>-</u>	1985	1984	% Change
-	\$ 000	0	
REFRIGERATORS AND FREEZERS			
Exports Imports Travel Surplus (Deficit)	27 692 29 391 (1 699)	27 957 30 621 (2 664)	(0.9) (4.0) (36.2)
ELEC. WASHING MACHINES AND PARTS			
Exports Imports Trade Surplus (Deficit)	5 955 39 188 (33 233)	5 892 32 994 (27 102)	1.1 18.8 22.6

TABLE 10

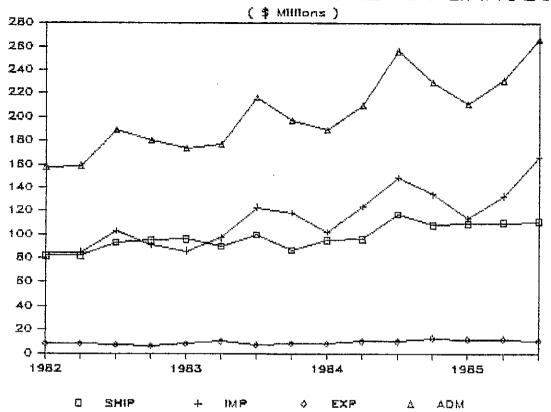
HOUSEHOLD ELECTRICAL PRODUCTS

NUMBER OF EMPLOYEES BY INDUSTRIAL SECTORS

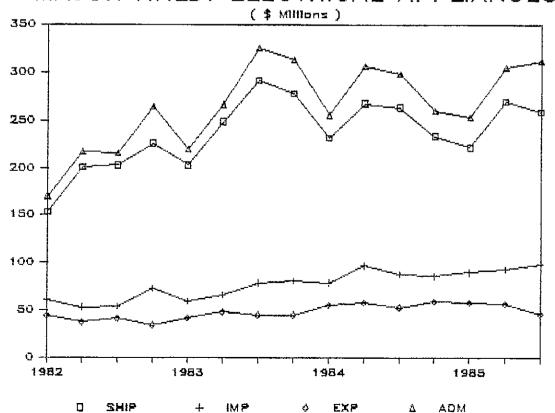
INDUSTRIAL SECTORS	NUMBER OF EMPLOYEES	
	As At September 1985	As At September 1984
Major Appliances	8 005	7 735
Small Appliances	3 327	3 752
	11 332	11 487

SOURCE: Employment, Earnings and Hours - Cat. No. 72-002. Statistics Canada.

SMALL HHLD. ELECTRICAL APPLIANCES



MAJOR HHLD. ELECTRICAL APPLIANCES



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Electronics Directorate Electronics and Aerospace Branch (GELA) Department of Regional Industrial Expansion