

**The Principal Canadian  
Telecommunications Carriers:  
Expenditures on  
Telecommunications Equipment  
1973-1982**

COMMUNICATIONS

HD  
9696  
T443  
C356  
1979



Government of Canada  
Department of Communications

Gouvernement du Canada  
Ministère des Communications

TABLE OF CONTENTS

	<u>PAGE</u>
Introduction	1
Table 1 - Plant Expenditures - Canada	4
Table 2 - Plant Expenditures - Atlantic Canada	6
Table 3 - Plant Expenditures - Ontario and Quebec	10
Table 4 - Plant Expenditures - Western Canada	12
Table 5 - Plant Expenditures by Carriers with Gross Plant Values of Less than \$500 Million	14
Table 6 - Plant Expenditures by Carriers with Gross Plant 1973 - 1982 \$500-\$999 Million	16
Table 7 - Plant Expenditures by Carriers with Gross Plant Values of More than \$500 Million	18
Table 8 - The Principal Canadian Telecommunications Carriers	20
Chart 1 - Expenditure Distribution by Location of Carriers' Headquarters	22
Chart 2 - Expenditure Distribution by Plant Value	24

**THE PRINCIPAL CANADIAN TELECOMMUNICATIONS CARRIERS:  
EXPENDITURES ON TELECOMMUNICATIONS EQUIPMENT**

Industry Canada  
LIBRARY  
  
MAY 21 1998  
  
BIBLIOTHEQUE  
Industrie Canada

~~COMMUNICATIONS CANADA  
DEC 20 1979  
LIBRARY - BIBLIOTHEQUE~~

HD  
9696  
T443  
C356  
1979

## TABLE OF CONTENTS

	<u>Page</u>
Introduction	1
Table 1 - Plant Expenditures - Canada	6
Table 2 - Plant Expenditures - Atlantic Canada	8
Table 3 - Plant Expenditures - Ontario and Quebec	10
Table 4 - Plant Expenditures - Western Canada	12
Table 5 - Plant Expenditures by Carriers with Gross Plant Valued at Less than \$250 Million	14
Table 6 - Plant Expenditures by Carriers with Gross Plant Valued Between \$250-500 Million	16
Table 7 - Plant Expenditures by Carriers with Gross Plant Valued at More than \$500 Million	18
Table 8 - The Principal Canadian Telecommunication Carriers	20
Chart 1 - Expenditure Distribution by Location of Carriers' Headquarters	22
Chart 2 - Expenditure Distribution by Gross Plant Value	23

## INTRODUCTION

The Canadian telecommunications industry is a major part of Canada's industrial infrastructure. Almost entirely domestically owned and controlled, the industry employs some 150,000 people. Its reputation for excellence, advanced technology and quality of service is among the best in the world.

Telecommunications carriers are the backbone of the Canadian telecommunications industry. They provide voice and data services needed for local and long distance communications. The switching, transmission and receiving equipment they use to provide these services are acquired from another important segment of the Canadian telecommunications industry, the telecommunications equipment manufacturers.

"The Principal Canadian Telecommunications Carriers: Expenditures on Telecommunications Equipment" is a publication of the Department of Communications in association with the Canadian Telecommunications Carriers Association. It reviews carriers' expenditures on telecommunications equipment for the years 1973 to 1977, together with a forecast of corresponding annual outlays from 1978 to 1982.

The publication is intended to promote a better understanding of the scope and nature of the Canadian carriers' ongoing requirement for and investment in high technology equipment in this country. It provides a revision with more detail and an historical extension of data published in the Department of Communications' 1974 Working Paper entitled "Canadian Telecommunications Carriers and Their Suppliers".

The forecast of the main aggregates of data through 1982 sheds light on the expansion and modernization plans of Canada's carriers over the next few years. It, together with the update of the corresponding figures for recent years, provides an information base for the formulation of appropriate industrial strategies by providing an appreciation of the carriers' present and future needs.

The Canadian Telecommunications Carriers Association collected the basic information for this publication; the Department of Communications processed the returns and tabulated the data in consultation with the Association. Department officials and telecommunications industry representatives collaborated on the commentary.

The survey to obtain basic data for this publication took place during the summer of 1978. The 19 corporate members of the Canadian Telecommunications Carriers Association were canvassed to supply information on their 1973-1977 actual expenditures, current 1978 outlays and anticipated 1979-1982 spending for central office (switching and transmission) equipment, outside plant (distribution) and station apparatus (terminal equipment).

The survey focused on amounts spent for telecommunications equipment. Outlays for land, buildings and vehicles were not included. As a result, the publication data may differ from related data appearing in the financial statements of telecommunications carriers which generally include expenditures for real property and transportation equipment.

Expenditures reported in the publication also include, where applicable, an element for the value of labour necessary to bring certain equipment such as station connections into operation. For all members of the Association, this amount is about 25 percent of total spending for equipment. All expenditures are expressed in current dollars.

Based on this survey, the principal Canadian telecommunications carriers expect to spend some \$16.8 billion for the acquisition and installation of new telecommunications equipment in the decade ending in 1982. Of this, some \$6.9 billion was spent during 1973-1977. The remainder represents the carriers' 1978 view of the corresponding amount to be spent in 1978-1982.

Telecommunications equipment expenditures by carriers headquartered in Ontario and Quebec will rise from 55.8 percent of the total for 1973-1977 to 56.9 percent for 1978-1982. The corresponding share of expenditures for carriers headquartered in the Western provinces will increase from 35.6 percent for 1973-1977 to 37.1 percent for 1978-1982. Expenditures by carriers headquartered in the Atlantic provinces will drop from 8.6 percent for 1973-1977 to 6.0 percent for 1978-1982.

Carriers with gross plant valued at less than \$250 million accounted for 5.2 percent of the total 1973-1977 telecommunications equipment expenditure; their share of corresponding 1978-1982 outlays are expected to drop to 4.6 percent. Those with gross plant valued between \$250 million and \$500 million will experience a decrease in their share of expenditures from 12.7 percent for 1973-1977 to 11.1 percent for 1978-1982. Carriers with gross plant valued at more than \$500 million will increase their share of the same expenditures from 82.1 percent for 1973-1977 to 84.3 percent for 1978-1982.

Generally, the proportion of expenditure for central office equipment will decrease over the decade. This decline will be compensated for by a roughly equivalent gain in the relative importance of spending for station apparatus. The importance of spending for outside plant will remain virtually unchanged from the first to the second half of the period. These findings are generally true both for the regional and size-of-firm presentations.

The decline in the share of spending on central office equipment is, however, less evident in Western Canada. The accelerating pace of industrial development and substantial increase in population are combining to generate above-average rates of increase for outlays for central office equipment in the West. Also the decline in expenditure on switching is less evident for carriers with gross plant valued at less than \$250 million. Data for these carriers may be distorted, however, by the inclusion of data for Teleglobe and Telesat which do not serve the public directly.

In absolute dollar terms, central office equipment will continue to account for most of the carriers' equipment expenditure during 1978-1982. However, with the push for electronic switching nearing completion, spending in this area is returning to a historically lower level. Spending for station apparatus, on the other hand, is increasing. The carriers' interest in aggressive marketing of all types of terminal equipment and rapid increases in labour connection charges account in large part for growth in this category.

For the 1978 survey, as shown in the accompanying tables, expenditures are presented by region and value of gross plant in 1977. The aggregates indicate geographical trends and trends by size-of-firm, while preserving the confidentiality of individual respondents.

Under the heading "central office equipment" expenditures are shown for manual, step-by-step, crossbar and electronic switching. Spending for radio transmission and other transmission equipment (i.e. voice frequency, carrier terminal and concentrating equipment) is also shown.

Station apparatus, or terminal equipment, is broken down into teletypewriters (including cathode ray display units and similar devices), telephones (single and multi-key sets), mobile and radio telephones, data equipment including modems, station connections (which include miscellaneous terminal hardware and wiring, together with the capitalized cost of the labour necessary to connect the equipment to the public switching network at the customer's location) and private branch exchanges.

Outside plant expenditures are divided for the purposes of these tables into outlays for pole lines, that is, poles and associated hardware except for aerial cable or wire; aerial, underground, buried and submarine cable; aerial wire (single strand open wire); and underground conduit for use with underground cable.

Preliminary data for 1978 and forecasts for 1979 to 1982 are presented as subtotals by class of investment, as certain carriers could not provide breakdowns by type of equipment. Percentages may not add due to rounding.

Questions and suggestions for future editions are welcome by the Department. Contact:

P.D. Bernier  
Acting Director  
Industrial Resources Development Directorate  
National Telecommunications Branch  
Department of Communications  
300 Slater Street  
Ottawa, Ontario K1A 0C8  
(613-996-3180)



TABLE 1. PLANT EQUIPMENT EXPENDITURES - CANADA.

NUMBER OF CARRIERS: 18	1973	1974	1975	1976	1977	1978*	1979**	1980**	1981**	1982**
MILLIONS OF DOLLARS										
<u>CENTRAL OFFICE EQUIPMENT</u>										
SWITCHING: MANUAL	8.9	16.5	14.1	6.4	7.0					
STEP-BY-STEP	57.9	80.4	89.5	101.9	93.0					
CROSSBAR	78.6	133.5	140.0	144.0	160.3					
ELECTRONIC	61.9	116.5	179.3	239.5	240.8					
TRANSMISSION: RADIO	45.5	45.8	60.7	63.4	60.0					
OTHER	103.9	172.1	218.0	186.0	188.6					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	356.7	564.8	701.5	741.3	749.7	739.7	782.8	846.7	820.2	847.2
<u>STATION APPARATUS</u>										
TELETYPEWRITERS	7.9	6.8	22.4	14.9	15.5					
TELEPHONES	29.0	47.6	124.2	122.5	129.5					
RADIO TELEPHONES	5.6	12.7	19.7	17.8	20.2					
DATA	4.8	5.6	16.5	16.1	19.1					
STATION CONNECTIONS	110.3	151.0	170.5	190.0	226.4					
LARGE PBX	35.9	56.0	58.7	57.6	59.0					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	193.5	279.8	412.0	418.9	469.6	520.7	583.4	599.3	626.2	644.9
<u>OUTSIDE PLANT</u>										
POLE LINES	15.0	18.8	20.7	24.5	42.8					
CABLE: AERIAL	79.2	104.8	111.2	126.5	149.3					
UNDERGROUND	54.7	80.8	78.5	97.8	89.3					
BURIED	84.5	106.0	98.1	111.1	141.7					
SUBMARINE	21.0	7.9	1.1	.6	1.1					
AERIAL WIRE	3.5	3.6	3.5	3.7	7.3					
UNDERGROUND CONDUIT	53.8	70.3	62.4	65.1	70.3					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	311.6	392.2	375.5	429.3	501.8	529.0	607.1	589.3	579.0	621.8
TOTAL	861.8	1236.8	1489.1	1589.5	1721.2	1784.4	1973.4	2035.4	2025.3	2113.8
* OUTLOOK										
** FORECAST										

	1973	1974	1975	1976	1977	1973- 1977 TOTAL	1978	1979	1980	1981	1982	1978- 1982 TOTAL
PERCENTAGE												
<b>CENTRAL OFFICE EQUIPMENT</b>												
-----												
SWITCHING: MANUAL	1.0	1.3	.9	.4	.4	.8						
STEP-BY-STEP	6.7	6.5	6.0	6.4	5.4	6.1						
CROSSBAR	9.1	10.8	9.4	9.1	9.3	9.5						
ELECTRONIC	7.2	9.4	12.0	15.1	14.0	12.1						
TRANSMISSION: RADIO	5.3	3.7	4.1	4.0	3.5	4.0						
OTHER	12.1	13.9	14.6	11.7	11.0	12.6						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	41.4	45.7	47.1	46.6	43.6	45.1	41.3	39.7	41.6	40.5	40.1	40.6
<b>STATION APPARATUS</b>												
-----												
TELETYPEWRITERS	.9	.6	1.5	.9	.9	1.0						
TELEPHONES	3.4	3.8	8.3	7.7	7.5	6.6						
RADIO TELEPHONES	.6	1.0	1.3	1.1	1.2	1.1						
DATA	.6	.5	1.1	1.0	1.1	.9						
STATION CONNECTIONS	12.8	12.2	11.4	12.0	13.2	12.3						
LARGE PBX	4.2	4.5	3.9	3.6	3.4	3.9						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	22.4	22.6	27.7	26.4	27.3	25.7	29.1	29.6	29.4	30.9	30.5	29.9
<b>OUTSIDE PLANT</b>												
-----												
POLE LINES	1.7	1.5	1.4	1.5	2.5	1.8						
CABLE: AERIAL	9.2	8.5	7.5	8.0	8.7	8.3						
UNDERGROUND	6.3	6.5	5.3	6.2	5.2	5.8						
BURIED	9.8	8.6	6.6	7.0	8.2	7.8						
SUBMARINE	2.4	.6	.1	.0	.1	.5						
AERIAL WIRE	.4	.3	.2	.2	.4	.3						
UNDERGROUND CONDUIT	6.2	5.7	4.2	4.1	4.1	4.7						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	36.2	31.7	25.2	27.0	29.2	29.1	29.6	30.8	29.0	28.6	29.4	29.4

TABLE 2. PLANT EQUIPMENT EXPENDITURES - ATLANTIC CANADA (NEWFOUNDLAND, NOVA SCOTIA, NEW BRUNSWICK AND PRINCE EDWARD ISLAND).

NUMBER OF CARRIERS: 4	1973	1974	1975	1976	1977	1978*	1979**	1980**	1981**	1982**
MILLIONS OF DOLLARS										
<b>CENTRAL OFFICE EQUIPMENT</b>										
-----										
SWITCHING: MANUAL	.8	1.2	1.8	1.1	1.0					
STEP-BY-STEP	7.0	11.9	10.0	9.6	7.9					
CROSSBAR	9.2	15.9	17.2	17.6	12.6					
ELECTRONIC	2.2	11.1	15.3	21.2	8.8					
TRANSMISSION: RADIO	4.1	5.0	4.8	7.1	10.9					
OTHER	8.1	15.3	15.2	16.7	16.4					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	31.4	60.5	64.4	73.3	57.7	48.0	39.1	51.2	57.6	41.8
<b>STATION APPARATUS</b>										
-----										
TELETYPEWRITERS	.5	.5	.5	.3	.4					
TELEPHONES	8.2	10.0	8.1	8.7	9.1					
RADIO TELEPHONES	.8	1.1	1.0	.9	.7					
DATA	.4	.3	.5	.3	.0					
STATION CONNECTIONS	7.9	10.3	11.3	12.1	11.1					
LARGE PBX	1.8	1.7	2.6	3.2	2.1					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	19.4	23.9	24.0	25.5	23.9	28.3	33.6	33.9	34.0	34.5
<b>OUTSIDE PLANT</b>										
-----										
POLE LINES	3.9	4.8	4.9	5.7	6.7					
CABLE: AERIAL	16.6	21.6	21.0	20.6	22.1					
UNDERGROUND	2.2	2.4	2.8	3.6	2.8					
BURIED	6.1	6.6	4.4	5.5	4.1					
SUBMARINE	.1	.1	.3	.1	.1					
AERIAL WIRE	.9	1.0	.9	1.2	1.0					
UNDERGROUND CONDUIT	2.0	3.2	2.8	.8	2.6					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	31.7	39.8	37.1	37.4	39.2	38.5	39.0	37.4	34.1	32.7
TOTAL	82.5	124.2	125.5	136.2	120.7	114.8	111.6	122.5	125.7	109.0
* OUTLOOK		** FORECAST								

	1973	1974	1975	1976	1977	1973- 1977 TOTAL	1978	1979	1980	1981	1982	1978- 1982 TOTAL
PERCENTAGE												
<b>CENTRAL OFFICE EQUIPMENT</b>												
-----												
SWITCHING: MANUAL	.9	1.0	1.4	.8	.9	1.0						
STEP-BY-STEP	8.5	9.6	7.9	7.1	6.5	7.9						
CROSSBAR	11.2	12.8	13.7	13.0	10.4	12.3						
ELECTRONIC	2.7	8.9	12.2	15.6	7.3	10.0						
TRANSMISSION: RADIO	5.0	4.0	3.8	5.2	9.0	5.4						
OTHER	9.8	12.4	12.2	12.2	13.6	12.2						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	38.0	48.7	51.3	53.8	47.8	48.7	41.8	35.0	41.8	45.8	38.3	40.7
<b>STATION APPARATUS</b>												
-----												
TELETYPEWRITERS	.6	.4	.4	.2	.3	.4						
TELEPHONES	9.9	8.0	6.5	6.4	7.5	7.5						
RADIO TELEPHONES	.9	.9	.8	.7	.6	.8						
DATA	.4	.2	.4	.2	.5	.3						
STATION CONNECTIONS	9.5	8.3	9.0	8.9	9.2	8.9						
LARGE PBX	2.2	1.4	2.1	2.4	1.7	1.9						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	23.5	19.2	19.2	18.7	19.8	19.8	24.7	30.1	27.6	27.0	31.7	28.1
<b>OUTSIDE PLANT</b>												
-----												
POLE LINES	4.7	3.9	3.9	4.2	5.6	4.4						
CABLE: AERIAL	20.2	17.4	16.8	15.1	18.3	17.3						
UNDERGROUND	2.7	1.9	2.2	2.6	2.3	2.3						
BURIED	7.3	5.3	3.5	4.0	3.4	4.5						
SUBMARINE	.1	.1	.2	.1	.1	.1						
AERIAL WIRE	1.1	.8	.7	.9	.8	.8						
UNDERGROUND CONDUIT	2.4	2.6	2.3	.6	2.1	1.9						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	38.5	32.1	29.5	27.4	32.5	31.4	33.5	34.9	30.5	27.1	30.0	31.1

TABLE 3. PLANT EQUIPMENT EXPENDITURES - QUEBEC AND ONTARIO.

NUMBER OF CARRIERS: 8	1973	1974	1975	1976	1977	1978*	1979**	1980**	1981**	1982**
MILLIONS OF DOLLARS										
<b>CENTRAL OFFICE EQUIPMENT</b>										
-----										
SWITCHING: MANUAL	6.2	12.2	5.2	2.4	3.0					
STEP-BY-STEP	22.0	23.8	28.8	31.9	38.3					
CROSSBAR	52.1	85.7	87.0	99.7	103.2					
ELECTRONIC	48.1	75.1	90.4	113.9	93.3					
TRANSMISSION: RADIO	23.9	22.5	26.6	26.9	21.5					
OTHER	68.8	115.9	142.9	109.1	106.6					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	221.0	335.2	381.0	383.9	365.9	387.5	418.2	441.3	423.2	462.5
<b>STATION APPARATUS</b>										
-----										
TELETYPEWRITERS	4.0	3.6	18.2	12.0	12.3					
TELEPHONES	2.3	2.4	71.4	67.6	74.5					
RADIO TELEPHONES	.5	.8	8.1	7.4	6.5					
DATA	3.8	3.2	11.0	9.7	11.6					
STATION CONNECTIONS	78.8	82.6	94.5	102.1	132.3					
LARGE PBX	25.8	42.6	36.8	40.5	40.6					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	115.2	135.2	240.0	239.5	277.7	308.3	341.7	355.2	361.1	378.4
<b>OUTSIDE PLANT</b>										
-----										
POLE LINES	7.8	9.9	11.3	13.8	21.8					
CABLE: AERIAL	43.8	61.2	63.9	77.1	96.6					
UNDERGROUND	36.0	51.9	40.6	54.9	51.3					
BURIED	46.0	60.1	44.8	55.4	69.8					
SUBMARINE	20.7	7.6	.6	.4	.8					
AERIAL WIRE	2.0	1.9	1.8	1.8	1.9					
UNDERGROUND CONDUIT	37.0	43.6	32.4	40.9	45.3					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	193.2	236.2	195.4	244.3	287.4	326.9	385.9	359.8	340.2	372.8
TOTAL	529.5	706.5	816.3	867.7	931.1	1022.7	1145.7	1156.2	1124.5	1213.7
* OUTLOOK			** FORECAST							

	1973	1974	1975	1976	1977	1973- 1977 TOTAL	1978	1979	1980	1981	1982	1978- 1982 TOTAL
PERCENTAGE												
CENTRAL OFFICE EQUIPMENT												
-----												
SWITCHING: MANUAL	1.2	1.7	.6	.3	.3	.8						
STEP-BY-STEP	4.2	3.4	3.5	3.7	4.1	3.8						
CROSSBAR	9.8	12.1	10.7	11.5	11.1	11.1						
ELECTRONIC	9.1	10.6	11.1	13.1	10.0	10.9						
TRANSMISSION: RADIO	4.5	3.2	3.3	3.1	2.3	3.2						
OTHER	13.0	16.4	17.5	12.6	11.5	14.1						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	41.7	47.4	46.7	44.2	39.3	43.8	37.9	36.5	38.2	37.6	38.1	37.7
STATION APPARATUS												
-----												
TELETYPEWRITERS	.8	.5	2.2	1.4	1.3	1.3						
TELEPHONES	.4	.3	8.7	7.8	8.0	5.7						
RADIO TELEPHONES	.1	.1	1.0	.9	.7	.6						
DATA	.7	.5	1.3	1.1	1.2	1.0						
STATION CONNECTIONS	14.9	11.7	11.6	11.8	14.2	12.7						
LARGE PBX	4.9	6.0	4.5	4.7	4.4	4.8						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	21.8	19.1	29.4	27.6	29.8	26.2	30.1	29.8	30.7	32.1	31.2	30.8
OUTSIDE PLANT												
-----												
POLE LINES	1.5	1.4	1.4	1.6	2.3	1.7						
CABLE: AERIAL	8.3	8.7	7.8	8.9	10.4	8.9						
UNDERGROUND	6.8	7.3	5.0	6.3	5.5	6.1						
BURIED	8.7	8.5	5.5	6.4	7.5	7.2						
SUBMARINE	3.9	1.1	.1	.0	.1	.8						
AERIAL WIRE	.4	.3	.2	.2	.2	.2						
UNDERGROUND CONDUIT	7.0	6.2	4.0	4.7	4.9	5.2						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	36.5	33.4	23.9	28.2	30.9	30.0	32.0	33.7	31.1	30.3	30.7	31.5

TABLE 4. PLANT EQUIPMENT EXPENDITURES - WESTERN CANADA (MANITOBA, SASKATCHEWAN, ALBERTA AND BRITISH COLUMBIA).

NUMBER OF CARRIERS:	6	1973	1974	1975	1976	1977	1978*	1979**	1980**	1981**	1982**
MILLIONS OF DOLLARS											
<b>CENTRAL OFFICE EQUIPMENT</b>											
-----											
SWITCHING: MANUAL		2.0	3.1	7.1	3.0	3.0					
STEP-BY-STEP		28.9	44.7	50.7	60.3	46.8					
CROSSBAR		17.3	31.8	35.8	26.7	44.5					
ELECTRONIC		11.6	30.3	73.6	104.4	138.7					
TRANSMISSION: RADIO		17.5	18.4	29.2	29.4	27.6					
OTHER		27.0	40.9	59.9	60.2	65.5					
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL		104.3	169.1	256.2	284.1	326.2	304.2	325.6	354.2	339.4	342.9
<b>STATION APPARATUS</b>											
-----											
TELETYPEWRITERS		3.5	2.8	3.7	2.6	2.8					
TELEPHONES		18.5	35.2	44.7	46.2	45.9					
RADIO TELEPHONES		4.3	10.8	10.5	9.4	13.0					
DATA		.7	2.2	5.0	6.0	6.9					
STATION CONNECTIONS		23.7	58.1	64.7	75.8	83.0					
LARGE PBX		8.2	11.7	19.3	13.8	16.4					
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL		58.9	120.7	148.0	153.9	168.1	184.1	208.2	210.3	231.1	232.0
<b>OUTSIDE PLANT</b>											
-----											
POLE LINES		3.4	4.1	4.5	4.9	14.3					
CABLE: AERIAL		18.8	22.0	26.3	28.9	30.6					
UNDERGROUND		16.4	26.5	35.2	39.4	35.3					
BURIED		32.4	39.3	49.0	50.2	67.8					
SUBMARINE		.3	.2	.2	.1	.3					
AERIAL WIRE		.7	.6	.7	.7	4.5					
UNDERGROUND CONDUIT		14.7	23.5	27.1	23.4	22.5					
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL		86.6	116.2	143.1	147.6	175.1	163.6	182.3	192.2	204.7	216.2
TOTAL		249.8	406.0	547.3	585.6	669.3	651.9	716.0	756.6	775.1	791.2
* OUTLOOK											
** FORECAST											

	1973	1974	1975	1976	1977	1973- 1977 TOTAL	1978	1979	1980	1981	1982	1978- 1982 TOTAL
PERCENTAGE												
<b>CENTRAL OFFICE EQUIPMENT</b>												
-----												
SWITCHING: MANUAL	.8	.8	1.3	.5	.4	.7						
STEP-BY-STEP	11.6	11.0	9.3	10.3	7.0	9.4						
CROSSBAR	6.9	7.8	6.5	4.6	6.7	6.4						
ELECTRONIC	4.6	7.5	13.4	17.8	20.7	14.6						
TRANSMISSION: RADIO	7.0	4.5	5.3	5.0	4.1	5.0						
OTHER	10.8	10.1	10.9	10.3	9.8	10.3						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	41.7	41.6	46.8	48.5	48.7	46.4	46.7	45.5	46.8	43.8	43.3	45.1
<b>STATION APPARATUS</b>												
-----												
TELETYPEWRITERS	1.4	.7	.7	.5	.4	.6						
TELEPHONES	7.4	8.7	8.2	7.9	6.9	7.8						
RADIO TELEPHONES	1.7	2.7	1.9	1.6	1.9	2.0						
DATA	.3	.5	.9	1.0	1.0	.8						
STATION CONNECTIONS	9.5	14.3	11.8	12.9	12.4	12.4						
LARGE PBX	3.3	2.9	3.5	2.4	2.4	2.8						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	23.6	29.7	27.0	26.3	25.1	26.4	28.2	29.1	27.8	29.8	29.3	28.9
<b>OUTSIDE PLANT</b>												
-----												
POLE LINES	1.4	1.0	.8	.8	2.1	1.3						
CABLE: AERIAL	7.5	5.4	4.8	4.9	4.6	5.1						
UNDERGROUND	6.6	6.5	6.4	6.7	5.3	6.2						
BURIED	13.0	9.7	9.0	8.6	10.1	9.7						
SUBMARINE	.1	.1	.0	.0	.0	.0						
AERIAL WIRE	.3	.2	.1	.1	.7	.3						
UNDERGROUND CONDUIT	5.9	5.8	5.0	4.0	3.4	4.5						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	34.7	28.6	26.1	25.2	26.2	27.2	25.1	25.5	25.4	26.4	27.3	26.0



TABLE 5. PLANT EQUIPMENT EXPENDITURES - CARRIERS WITH GROSS PLANT VALUED AT LESS THAN \$250 MILLION IN 1977.

NUMBER OF CARRIERS:	8	1973	1974	1975	1976	1977	1978*	1979**	1980**	1981**	1982**
MILLIONS OF DOLLARS											
<b>CENTRAL OFFICE EQUIPMENT</b>											
-----											
SWITCHING: MANUAL		.3	.5	.6	.5	.5					
STEP-BY-STEP		4.5	6.5	6.2	6.9	7.6					
CROSSBAR		5.5	7.7	5.2	4.6	10.1					
ELECTRONIC		2.0	7.2	7.8	12.6	12.4					
TRANSMISSION: RADIO		3.5	5.1	4.7	5.2	8.9					
OTHER		8.0	12.4	10.4	11.0	16.5					
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL		23.8	39.3	34.9	40.9	55.9	62.7	55.9	41.3	51.3	53.5
<b>STATION APPARATUS</b>											
-----											
TELETYPEWRITERS		1.4	2.2	2.7	2.1	2.3					
TELEPHONES		2.1	2.7	2.2	2.4	4.5					
RADIO TELEPHONES		.3	.3	.3	.2	.8					
DATA		2.5	2.2	2.1	1.7	2.9					
STATION CONNECTIONS		3.0	4.5	4.6	5.0	7.1					
LARGE PBX		.7	1.0	1.6	1.2	1.4					
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL		10.1	12.8	13.5	12.6	19.0	21.2	24.4	20.8	21.2	23.3
<b>OUTSIDE PLANT</b>											
-----											
POLE LINES		1.1	1.5	1.4	1.2	2.2					
CABLE: AERIAL		4.6	5.2	5.6	6.7	8.9					
UNDERGROUND		.7	1.1	1.9	2.5	1.5					
BURIED		1.2	1.7	1.8	2.5	4.0					
SUBMARINE		20.3	7.0	.2	.2	.0					
AERIAL WIRE		.1	.2	.2	.1	.2					
UNDERGROUND CONDUIT		1.0	.9	1.5	1.6	2.4					
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL		29.1	17.6	12.5	14.7	19.2	22.8	17.6	11.3	11.4	13.8
TOTAL		62.9	69.7	60.9	68.2	94.1	106.7	97.9	73.4	83.9	90.6
* OUTLOOK			** FORECAST								

	1973	1974	1975	1976	1977	1973- 1977 TOTAL	1978	1979	1980	1981	1982	1978- 1982 TOTAL
PERCENTAGE												
<b>CENTRAL OFFICE EQUIPMENT</b>												
-----												
SWITCHING: MANUAL	.5	.7	1.0	.8	.5	.7						
STEP-BY-STEP	7.1	9.3	10.2	10.2	8.1	8.9						
CROSSBAR	8.8	11.0	8.5	6.8	10.7	9.3						
ELECTRONIC	3.2	10.3	12.9	18.4	13.2	11.8						
TRANSMISSION: RADIO	5.6	7.3	7.7	7.7	9.4	7.7						
OTHER	12.7	17.7	17.0	16.1	17.5	16.3						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	37.8	56.3	57.3	59.9	59.4	54.7	58.7	57.2	56.3	61.2	59.1	58.5
<b>STATION APPARATUS</b>												
-----												
TELETYPEWRITERS	2.3	3.2	4.4	3.0	2.4	3.0						
TELEPHONES	3.4	3.9	3.6	3.5	4.8	3.9						
RADIO TELEPHONES	.4	.4	.5	.3	.8	.5						
DATA	4.0	3.1	3.4	2.5	3.1	3.2						
STATION CONNECTIONS	4.8	6.4	7.5	7.3	7.5	6.8						
LARGE PBX	1.2	1.4	2.7	1.8	1.5	1.7						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	16.1	18.4	22.1	18.5	20.2	19.1	19.9	24.9	28.4	25.3	25.7	24.5
<b>OUTSIDE PLANT</b>												
-----												
POLE LINES	1.8	2.2	2.3	1.7	2.3	2.1						
CABLE: AERIAL	7.3	7.4	9.2	9.9	9.5	8.7						
UNDERGROUND	1.1	1.6	3.1	3.6	1.5	2.1						
BURIED	1.9	2.4	2.9	3.6	4.2	3.1						
SUBMARINE	32.2	10.1	.3	.3	.0	7.8						
AERIAL WIRE	.2	.2	.3	.2	.3	.2						
UNDERGROUND CONDUIT	1.6	1.3	2.5	2.3	2.6	2.1						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	46.2	25.2	20.6	21.6	20.4	26.2	21.4	18.0	15.3	13.6	15.2	17.0

TABLE 6. PLANT EQUIPMENT EXPENDITURES - CARRIERS WITH GROSS PLANT VALUED BETWEEN \$250 MILLION AND \$500 MILLION IN 1977.

NUMBER OF CARRIERS:	5	1973	1974	1975	1976	1977	1978*	1979**	1980**	1981**	1982**
MILLIONS OF DOLLARS											
<b>CENTRAL OFFICE EQUIPMENT</b>											
-----											
SWITCHING: MANUAL		.7	1.0	1.8	.8	1.0					
STEP-BY-STEP		6.9	10.0	11.4	12.5	10.0					
CROSSBAR		9.1	18.7	23.5	23.1	17.4					
ELECTRONIC		7.0	18.4	33.1	29.4	23.0					
TRANSMISSION: RADIO		10.5	9.7	12.9	12.2	9.9					
OTHER		13.9	23.0	24.8	26.0	24.5					
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL		48.1	80.7	107.5	104.2	85.8	95.6	78.2	99.5	110.3	95.6
<b>STATION APPARATUS</b>											
-----											
TELETYPEWRITERS		3.1	1.9	4.5	2.5	.9					
TELEPHONES		11.6	15.8	15.9	16.0	16.2					
RADIO TELEPHONES		1.7	1.9	1.8	2.3	1.8					
DATA		1.6	1.3	2.3	2.1	2.1					
STATION CONNECTIONS		10.4	13.1	17.2	17.9	18.3					
LARGE PBX		2.0	2.3	2.3	3.7	4.3					
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL		30.4	36.3	44.1	44.5	43.5	53.2	61.4	63.9	68.4	63.1
<b>OUTSIDE PLANT</b>											
-----											
POLE LINES		4.2	4.6	6.0	6.3	12.6					
CABLE: AERIAL		19.0	24.2	29.9	23.5	28.5					
UNDERGROUND		5.3	5.9	9.2	9.7	7.8					
BURIED		6.5	6.1	5.1	6.1	4.1					
SUBMARINE		.1	.1	.2	.1	.1					
AERIAL WIRE		1.7	1.6	1.7	1.6	1.7					
UNDERGROUND CONDUIT		2.8	5.4	4.9	2.5	4.8					
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL		39.5	48.0	57.0	49.8	59.5	52.8	61.2	63.2	64.3	68.4
TOTAL		118.0	165.0	208.7	198.5	188.8	201.6	200.8	226.6	243.0	227.1
* OUTLOOK			** FORECAST								

	1973	1974	1975	1976	1977	1973- 1977 TOTAL	1978	1979	1980	1981	1982	1978- 1982 TOTAL
PERCENTAGE												
<u>CENTRAL OFFICE EQUIPMENT</u>												
SWITCHING: MANUAL	.6	.6	.9	.4	.5	.6						
STEP-BY-STEP	5.8	6.0	5.5	6.3	5.3	5.8						
CROSSBAR	7.7	11.3	11.3	11.7	9.2	10.5						
ELECTRONIC	6.0	11.1	15.8	14.8	12.2	12.6						
TRANSMISSION: RADIO	8.9	5.9	6.2	6.2	5.2	6.3						
OTHER	11.8	14.0	11.9	13.1	13.0	12.8						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	40.8	48.9	51.5	52.5	45.4	48.5	47.4	38.9	43.9	45.4	42.1	43.6
<u>STATION APPARATUS</u>												
TELETYPEWRITERS	2.6	1.1	2.2	1.2	.5	1.5						
TELEPHONES	9.8	9.6	7.6	8.1	8.6	8.6						
RADIO TELEPHONES	1.4	1.1	.9	1.2	1.0	1.1						
DATA	1.3	.8	1.1	1.1	1.1	1.1						
STATION CONNECTIONS	8.8	7.9	8.3	9.0	9.7	8.8						
LARGE PBX	1.7	1.4	1.1	1.9	2.3	1.7						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	25.7	22.0	21.2	22.4	23.1	22.6	26.4	30.6	28.2	28.2	27.8	28.2
<u>OUTSIDE PLANT</u>												
POLE LINES	3.6	2.8	2.9	3.2	6.7	3.8						
CABLE: AERIAL	16.1	14.7	14.3	11.8	15.1	14.2						
UNDERGROUND	4.5	3.6	4.4	4.9	4.1	4.3						
BURIED	5.5	3.7	2.4	3.1	2.2	3.2						
SUBMARINE	.1	.1	.1	.0	.0	.1						
AERIAL WIRE	1.4	1.0	.8	.8	.9	.9						
UNDERGROUND CONDUIT	2.3	3.3	2.3	1.2	2.5	2.3						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	33.5	29.1	27.3	25.1	31.5	28.9	26.2	30.5	27.9	26.5	30.1	28.2

TABLE 7. PLANT EQUIPMENT EXPENDITURES - CARRIERS WITH GROSS PLANT VALUED AT MORE THAN \$500 MILLION IN 1977.

NUMBER OF CARRIERS:	5									
	1973	1974	1975	1976	1977	1978*	1979**	1980**	1981**	1982**
	MILLIONS OF DOLLARS									
<b>CENTRAL OFFICE EQUIPMENT</b>										
-----										
SWITCHING: MANUAL	7.9	15.1	11.7	5.1	5.6					
STEP-BY-STEP	46.5	63.9	71.9	82.4	75.3					
CROSSBAR	64.0	107.1	111.3	116.3	132.8					
ELECTRONIC	52.9	90.9	138.4	197.5	205.4					
TRANSMISSION: RADIO	31.5	31.1	43.1	46.0	41.3					
OTHER	82.0	136.7	182.8	149.0	147.7					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	284.8	444.8	559.1	596.3	608.1	581.4	648.7	705.9	658.6	698.1
<b>STATION APPARATUS</b>										
-----										
TELETYPEWRITERS	3.4	2.7	15.2	10.4	12.3					
TELEPHONES	15.2	29.0	106.1	104.1	108.8					
RADIO TELEPHONES	3.6	10.6	17.6	15.2	17.6					
DATA	.7	2.2	12.1	12.3	14.1					
STATION CONNECTIONS	96.9	133.5	148.6	167.0	201.0					
LARGE PBX	33.1	52.8	54.7	52.6	53.3					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	153.0	230.7	354.4	361.7	407.1	446.3	497.7	514.6	536.6	558.5
<b>OUTSIDE PLANT</b>										
-----										
POLF LINES	9.6	12.6	13.3	16.9	28.0					
CABLE: AERIAL	55.6	75.4	75.7	96.3	111.9					
UNDERGROUND	48.7	73.8	67.4	85.7	80.1					
BURIED	76.8	98.3	91.3	102.6	133.6					
SUBMARINE	.7	.8	.7	.3	1.0					
AERIAL WIRE	1.7	1.8	1.6	1.9	5.4					
UNDERGROUND CONDUIT	50.0	64.0	56.0	61.1	63.1					
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	243.0	326.7	306.0	364.8	423.2	453.4	528.3	514.8	503.3	539.6
<b>TOTAL</b>	<b>680.8</b>	<b>1002.2</b>	<b>1219.5</b>	<b>1322.8</b>	<b>1438.3</b>	<b>1481.1</b>	<b>1674.7</b>	<b>1735.4</b>	<b>1698.4</b>	<b>1796.1</b>
* OUTLOOK		** FORECAST								

	1973	1974	1975	1976	1977	1973- 1977 TOTAL	1978	1979	1980	1981	1982	1978- 1982 TOTAL
PERCENTAGE												
<b>CENTRAL OFFICE EQUIPMENT</b>												
-----												
SWITCHING: MANUAL	1.2	1.5	1.0	.4	.4	.8						
STEP-BY-STEP	6.8	6.4	5.9	6.2	5.2	6.0						
CROSSBAR	9.4	10.7	9.1	8.8	9.2	9.4						
ELECTRONIC	7.8	9.1	11.3	14.9	14.3	12.1						
TRANSMISSION: RADIO	4.6	3.1	3.5	3.5	2.9	3.4						
OTHER	12.0	13.6	15.0	11.3	10.3	12.3						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	41.8	44.4	45.8	45.1	42.3	44.0	39.3	38.7	40.7	38.8	38.9	39.3
<b>STATION APPARATUS</b>												
-----												
TELETYPEWRITERS	.5	.3	1.2	.8	.9	.8						
TELEPHONES	2.2	2.9	8.7	7.9	7.6	6.4						
RADIO TELEPHONES	.5	1.1	1.4	1.2	1.2	1.1						
DATA	.1	.2	1.0	.9	1.0	.7						
STATION CONNECTIONS	14.2	13.3	12.2	12.6	14.0	13.2						
LARGE PBX	4.9	5.3	4.5	4.0	3.7	4.4						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	22.5	23.0	29.1	27.3	28.3	26.6	30.1	29.7	29.7	31.6	31.1	30.5
<b>OUTSIDE PLANT</b>												
-----												
POLE LINES	1.4	1.3	1.1	1.3	1.9	1.4						
CABLE: AERIAL	8.2	7.5	6.2	7.3	7.8	7.3						
UNDERGROUND	7.1	7.4	5.5	6.5	5.6	6.3						
BURIED	11.3	9.8	7.5	7.8	9.3	8.9						
SUBMARINE	.1	.1	.1	.0	.1	.1						
AERIAL WIRE	.2	.2	.1	.1	.4	.2						
UNDERGROUND CONDUIT	7.3	6.4	4.6	4.6	4.4	5.2						
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUBTOTAL	35.7	32.6	25.1	27.6	29.4	29.4	30.6	31.5	29.7	29.6	30.0	30.3

TABLE 8. The Principal Canadian Telecommunication Carriers

Carrier	Service Area	Regulator	Ownership	TCTS Member	Total Telephone (1977)	Plant at Original Cost (1977)	Growth 1973/1977 in Total Assets (Compound)
Alberta Government Telephones	Province of Alberta except City of Edmonton	Public Utility Board	Provincial Crown Corporation	Yes	930,382	(\$000) 1,476,011	(%) 14.66
Bell Canada	Major portions of the provinces of Quebec and Ontario and sections of the Northwest Territories.	Canadian Radio-television and Telecommunications Commission	Investor-owned utility	Yes	8,620,229	7,946,661	7.25
British Columbia Telephone Company	Province of British Columbia	Canadian Radio-television and Telecommunications Commission	Investor-owned utility. Majority of common shares owned by Anglo-Canadian Telephone, a subsidiary of GTE (U.S.).	Yes	1,600,512	1,945,637	12.29
Canadian National Telecommunications	Telephone operations in the Yukon, Northwest Territories and Newfoundland provided through subsidiaries Northwest Telecommunications and Terra Nova Telecommunications. Other services provided through the Canada-wide CN-CP consortium.	Canadian Radio-television and Telecommunications Commission	Federal Crown Corporation	No	61,000(E)	461,327	N/A
Canadian Pacific Telecommunications	Provides telecommunications services other than telephone through the CN-CP consortium.	Canadian Radio-television and Telecommunications Commission	Subsidiary of Canadian Pacific Ltd.	No	N/A	165,895	N/A

N/A Not available  
(E) Estimate

TABLE 8 (Continued)

Carrier	Service Area	Regulator	Ownership	TCTS Member	Total Telephone (1977)	Plant at Original Cost (1977)	Growth 1973/1977 in Total Assets (Compound)
edmonton telephones	City of Edmonton, Alberta	City Council	Municipally-owned utility	No	373,959	(\$000) 283,043	(%) 16.64
The Island Telephone Company Limited	Prince Edward Island	Public Utility Commission of Prince Edward Island	Equity control owned by Maritime Telephone and Telegraph (Halifax)	Yes	55,296	51,497	14.45
Manitoba Telephone System	Province of Manitoba	Public Utility Board	Provincial Crown Corporation	Yes	609,161	542,710	10.90
Maritime Telegraph and Telephone Company Limited	Province of Nova Scotia	Nova Scotia Public Utility Board	Investor-owned utility. About 39% of the common shares are registered under the name of Bell Canada. Under a statute passed by the legislature of Nova Scotia, not more than 1,000 shares may be voted by any one shareholder.	Yes	431,129	455,010	11.91
New Brunswick Telephone Company Limited	Province of New Brunswick	New Brunswick Board of Commissioners of Public Utilities	Investor-owned utility. About 40% of the outstanding common shares is owned by Bell Canada.	Yes	342,920	379,540	11.23

13708



TABLE 8 (Continued)

Carrier	Service Area	Regulator	Ownership	TCTS Member	Total Telephone (1977)	Plant at Original Cost (1977)	Growth 1973/1977 in Total Assets (Compound)
Newfoundland Telephone Company Limited	Eastern and Southern Newfoundland	Board of Commissioners of Public Utilities	Investor-owned utility. Bell Canada owns 66% of the outstanding common shares.	Yes	164,193	(\$000) 212,817	(%) 16.14
Northern Telephone Limited	Northeastern Ontario	Ontario Telephone Commission	Bell Canada owns 99.8% of the outstanding common shares.	No	66,815	39,488	2.13
Okanagan Telephone Company	Okanagan Valley of British Columbia		At the time of the survey, British Columbia Telephone Company (BC Tel) owned 99.2% of the shares of this company. Okanagan Telephone Company is now an operating subsidiary of BC Tel.	No	N/A	N/A	N/A
Ontario Northland Communications	Northern Ontario	Ontario Telephone Commission	Provincial agency	No	2,000(E)	N/A	N/A
Quebec-Telephone	Gaspé Peninsula and Quebec North Shore	Public Service Board of the Province of Quebec	Investor-owned utility. A majority of the outstanding common shares is owned by Anglo-Canadian Telephone, a subsidiary of GTE (U.S.).	No	240,982	295,069	9.68

N/A Not available  
(E) Estimate

THE FOLLOWING TABLE SETS OUT THE DISTRIBUTION OF PLANT EQUIPMENT EXPENDITURES OF THE PRINCIPAL  
 TELEPHONE CARRIERS IN THE PROVINCE OF SASKATCHEWAN BY MAIN CATEGORY OF EXPENDITURE (BY  
 VALUE OF 1977 PLANT COST)

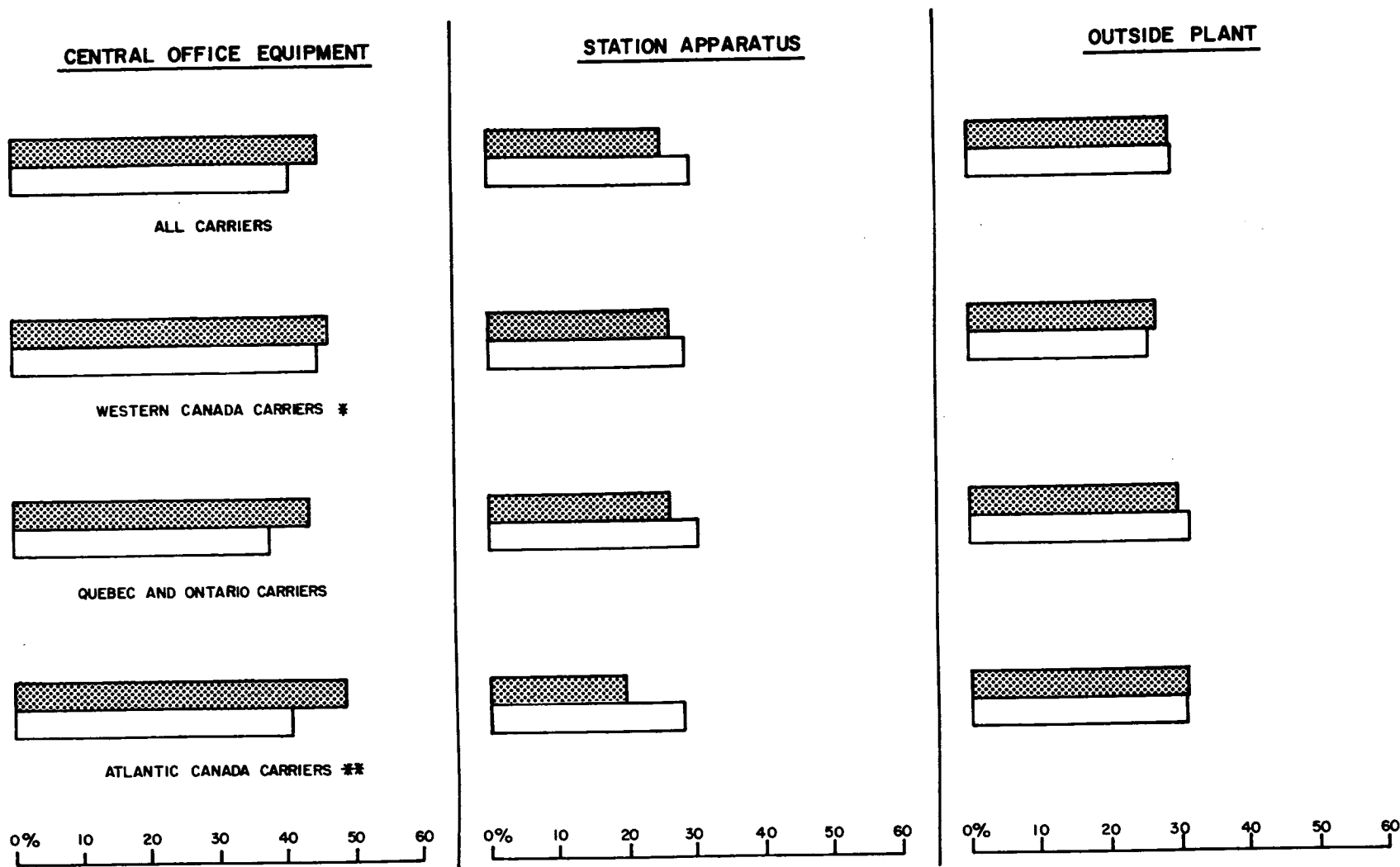
TABLE 8 (Continued)

Carrier	Service Area	Regulator	Ownership	TCTS Member	Total Telephone (1977)	Plant at Original Cost (1977)	Growth 1973/1977 in Total Assets (Compound)
Saskatchewan Telecommunications	Province of Saskatchewan	Provincial legislature	Provincial Crown Corporation	Yes	516,312	(\$000) 557,093	(%) 15.95
Télébec Limitée	Northwestern Quebec	Public Service Board of the Province of Quebec	All outstanding common equity is owned by Bell Canada.	No	130,712	131,420	34.68
Teleglobe Canada	International carrier		Federal Crown Corporation	No	N/A	202,996	10.67
Telesat Canada	Canada via satellite facilities	Canadian Radio-television and Telecommunications Commission	Outstanding common equity is held 50% by the federal government and 50% by the members of TCTS (except Telesat Canada).	Yes	N/A	170,772	2.28

14,953

N/A Not available

CHART 1: PERCENTAGE DISTRIBUTION OF PLANT EQUIPMENT EXPENDITURES OF THE PRINCIPAL CANADIAN TELECOMMUNICATIONS CARRIERS BY CATEGORY OF EXPENDITURE AND BY REGION BASED ON CARRIERS' HEADQUARTERS



\* WESTERN CANADA COMPRISES MANITOBA, SASKATCHEWAN, ALBERTA AND BRITISH COLUMBIA

\*\* ATLANTIC CANADA INCLUDES NEWFOUNDLAND, NOVA SCOTIA, NEW BRUNSWICK AND PRINCE EDWARD ISLAND

LEGEND:  1973-1977  
 1978-1982

**CHART 2: PERCENTAGE DISTRIBUTION OF PLANT EQUIPMENT EXPENDITURES OF THE PRINCIPAL CANADIAN TELECOMMUNICATIONS CARRIERS BY MAIN CATEGORY OF EXPENDITURE AND BY VALUE OF GROSS PLANT (1977)**

