TELECOMMUNICATIONS EXPENDITURES WITHIN THE GOVERNMENT OF CANADA 1979 / 80

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TELECOMMUNICATIONS EXPENDITURES

WITHIN THE

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1979 / 80 =



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TELECOMMUNICATIONS STATISTICAL ANALYST

TELECOMMUNICATIONS RESOURCES

DECEMBER 31, 1980

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TELECOMMUNICATIONS RESOURCE EXPENDITURES

PREFACE

This is the 4th annual report on Telecommunications Expenditures within the Federal Government prepared by the Telecommunications Planning and Coordination Division of the Government Telecommunications Agency. It is intended to present a detailed breakdown of telecommunications expenditures and personnel within the Federal Government.

SAMPLE, SELECTION, COVERAGE AND CHARACTERISTICS

Each year departments/agencies within the Federal Government whose tele-communications expenditures exceed \$20,000 are requested by Treasury Board to report detailed information on their telecommunications expenditures and personnel. This request is outlined in the Guide on Tele-communications Administration and relates to departments/agencies/branches named in Schedule A and B of the Financial Administration Act. For the year 1979/80, 52 departments/agencies were asked to report details of their telecommunications expenditures and personnel. These 52 departments/agencies included all major government organizations and constituted approximately 50% of the total number of departments/agencies in Federal Government which use telecommunications.

This sample of 52 was two less than that of the previous year due to the disbandment of the Anti-inflation Board and The Department of Urban Affairs during 1977/78. The data collected from the 52 departments/agencies for the year 1979/80 covers 98.5% of the total federal government telecommunications expenditures and has been expanded by simple extrapolation to represent the total.

Coverage of the sample was determined by comparing total government telecommunications expenditures extracted from DSS accounting records and the expenditures reported by the departments/agencies. Each month DSS forwards to DPC, financial statements 02504 - telecommunications expenditures (economic objects 02, 07 and 09) by client and 02523 summary. It is through the use of these statements that the sample coverage is determined.

The sample is composed of all large government organizations but within the sample the magnitude of the telecommunication expenditures varies significantly. There are a few government organizations that report significantly larger telecommunications expenditures compared to the remaining majority of reporting departments/agencies. This becomes very obvious in Table 21, page 28, which shows that 6 departments account for 74.5% of the total telecommunications expenditures of the federal government and that the remaining 46 departments account for only 24.1%. As a result of the make up of the sample, trends of the large departments dominate the data presented for the total federal government.

For the year 1980/81 the sample will increase by nine departments if the same sample selection criteria are used as have been in the past. These 9 departments had telecommunications expenditures in 1979/80 of approximately \$665,000. Had they been included in the 1979/80 sample, sample coverage would have been higher by 0.2% at 98.7%. It is also interesting to note that if the criteria for sample selection had been changed to include only departments/agencies whose telecommunications expenditures exceed \$100,000 annually, only 44 departments/agencies would have been requested to respond in 1979/80 and sample coverage would have equalled 98.0%, 0.5% lower than it actually was. These observations raise doubts about the legitimacy of the sample selection criteria. As a result it appears logical to remove the burden of reporting from the smaller departments by redefining the sample selection criteria to include only those departments/agencies whose telecommunications expenditures exceed \$100,000 annually. The smaller departments should however be encouraged to maintain their knowledge of developments in telecommunications through the Annual Review.

QUESTIONNAIRE AND DATA REQUESTED

In February 1980, departments/agencies were requested to complete and return by June 30, 1980 a three part questionnaire dealing with telecommunications expenditures and personnel. Part I of the questionnaire requested that 1979/80 telecommunications expenditures data be reported by standard economic objects similar to those used by Public Accounts. The following is a detailed description of those standard economic objects for which data was requested.

01 - salaries and wages - telecommunications personnel

0220 - telephone

0221 - telegraph, cable and wireless

0222 - other communications services

04 - professional and special services - telecommunications

05 - rentals - telecommunications equipment

0621 - repair - telegraph and telephone lines

0655 - repair - communications and related equipment

0780 - parts - communications and related equipment

0906 - acquisition - communications and related equipment

Part 2 of the questionnaire requested that 1979/80 telecommunications expenditures be reported by application of expenditures cross referenced by source of billing. Part 3 of the questionnaire dealt with telecommunications personnel and requested information on number of personnel by functional area and by classification, number of uniformed and contracted personnel, cost of salaries, wages, training and contract personnel — all cross referenced by work location. A copy of the 1979/80 questionnaire can be found on pages 43-45 of this report.

FORECASTING TELECOMMUNICATIONS EXPENDITURES AND PERSONNEL

All telecommunications expenditures have been forecast for the five year period 1980/81 through 1984/85. The forecasting of telecommunication expenditures (excluding telecommunication personnel wages and salaries) was accomplished through the application of a mathematical exponential curve model that was derived from historical expenditure data (1970/71 through 1979/80). Personnel wages and salaries have been forecast by simply assuming an 8% increase annually for each of the years 1980/81 through 1984/85 while the number of personnel required for the next five years has been assumed constant at the 1979/80 level.

Through the use of these forecasting techniques Total Telecommunications Expenditures (including telecommunications personnel wages and salaries) are estimated to increase to \$647 million by 1984/85 (Table 13, Page 20).

TELECOMMUNICATIONS EXPENDITURES

OPERATIONAL TELECOMMUNICATIONS EXPENDITURES (Refer to Table 9, Page 16)

For the year 1979/80 operational telecommunications expenditures increased by only 0.2% to \$191,620,000 from \$191,280,000 in 1978/79. This constituted a significant deviation from the historical trend of operational expenditures which grew at an average rate of 13.2% from 1970/71 through 1978/79. The significant decline from previous growth rates has been attributed to the absence of rate increases by the common carriers, government restraint program i.e. reduction in the *size of the public service during 1979/80, improved management of telecommunications resources, and the introduction of a new authorized call code system. It is expected that in proceeding years, the growth of operational expenditures will return to a rate more consistent with past years. Already significant rate increases have been announced and it is unlikely that progress in finding new ways to increase telecommunications management efficiency will have such significant cost reducing effects. Operational telecommunications

^{*} Current statistics indicate Public Service is growing again (80/81).

expenditures have been estimated to increase by 16.4% to \$223 million for the year 1980/81 and for the years 1981/82 through 1984/85 to grow an average of 13.0% annually to \$364 million for 1984/85.

CAPITAL COST EXPENDITURES (Refer to Table 10, Page 17)

For the year 1979/80 Capital Cost Expenditures declined by 13.9% to \$49,153,000 from \$57,069,000 in 1978/79. This decline is not characteristic of the past, during which time, growth of capital cost expenditures averaged 16.5% (1970/71 - 1978/79). The lower level capital cost expenditures have been attributed to the government restraint program in effect during that time. Future Capital Cost Expenditures have been estimated to increase by 40.9% to \$69,247,000 in 1980/81 and to increase at an average rate of 15.7% for the years 1981/82 through 1984/85.

Generally throughout the telecommunications products manufacturing industry it is felt that in the future with greater uses of chip, digital and fibre optic etc. technology, the cost of manufacturing telecommunications machinery and equipment will decline while its capabilities significantly increase.

This should encourage and provide some relief to areas that are attempting to automate. It should not be assumed however that in the future we will see a decline in the capital cost expenditures in the federal government. The need for more telecommunications equipment will be present as we are faced with greater amounts of work related to information and the automated office.

TELECOMMUNICATIONS PERSONNEL

The total number of telecommunications personnel reported by the 52 departments/agencies equalled for 6106 for 1979/80, an increase of approximately 6% from the reported number of 5732 for 1978/79. This increase is considered the result of more accurate reporting rather than real growth.

It is estimated that the number of telecommunications personnel will remain stable over the next five years given the present restraint on employment.

The general feeling within the telecommunications industry is that over the long term, employment in the telecommunications area (as well as other office areas) may decline as a result of the automated office technology. It is however, safer to say that many existing functions i.e. data entry as it is known today, will cease to exist with the automated office, but that these may be replaced by new and different functions in response to the emerging technology.

Total wages and salaries for telecommunications personnel were reported to be equal \$106,582,000 in 1979/80. This represents a 13.4% increase over the previous years reported expenditure of \$94,022,000. When one considers the increase in the number of telecommunications personnel reported in 1979/80 this total increase in wages and salaries represents an increase in average per person wage/salary of approximately 8%. Therefore given the assumptions of stable levels of personnel over the next 5 years and that increases of wages and salaries will remain at the 8% rate of 1979/80, expenditures on telecommunications wages and salaries have been estimated to be \$116,763,000 for 1980/81 and to continue to increase annually at 8% to an expenditure in 1984/85 of \$158,854,000.

Today, as in the past, there is concern being voiced about the skill levels present in the telecommunications field, the career opportunities for telecommunications personnel, and the type of personnel required to ensure telecommunications moves in a timely controlled manner. As a result of this concern and the recommendations of the 1979 report of the TAC Working Group on Telecommunications Personnel, an ad hoc committee was established to survey departmental training requirements. Initially in conjunction with PSC and five Telecommunications Coordinators this committee developed an Occupational Profile for Telecommunications Coordinators which will be recommended as a government standard. Because of the profile

an occupational group can now be established for telecommunications staff which would provide a concrete statement of the skills required and the career development possible. Following the development of the profile, training needs were assessed and defined through a DOC/DPC survey involving government departments of various sizes. The findings of this survey were reported to TAC by DOC in September along with recommendations and an action plan.

In addition it is considered of value to be able to compare the cost and disposition of telecommunications personnel and EDP personnel. At this time attempts are being made to develop the basis to achieve this. This will probably mean that different breakdowns of personnel data will need to be collected.

TABLES

TABLE 1
TELECOMMUMMUNICATIONS EXPENDITURES BY CATEGORY

соѕтѕ	OBJECT OF EXPENDITURE	1977/78 (\$000)	1978/79 (\$000)	1979/80 (\$ 000)	% CHANGE OVER 78/79
OPERATING	(0220) Telephone (0221) Telegraph, Cable & Wireless (0222) Other Telecommunications Services (0621) Repair — Telegraph & Telephone Lines	93,006 43,743 9,042 45	111,583 47,045 16,193 32	112,735 48,323 15,031 10	
, ,	(0655) Repair - Communication & Related Equipment	3,449	4,264	4,486	
	(05) Rentals - Telecommunications Equipment	7,780	12,163	11,035	
	TOTAL	157,065	191,280	191,620	0.2%
CAPITAL	(0780) Parts - Communication & Related Equipment	15,458	17,109	15,781	
	(0906) Acquisition - Communication & Related Equipment	32,129	39,960	33,372	r,
	TOTAL	47,587	57,069	49,153	- 14%
TELECOMMU- NICATIONS PERSONNEL	(04) Professional & Special Services - Telecommunications	854	646	656	
LICOUNIEL	Salaries and Contracted Personnel	69,541	94,022	108,114	
	TOTAL	70,395	94,668	108,770	15%
	TOTAL GOVERNMENT TELECOMMUNICATIONS EXPENDITURES	275,047	343,017	349,543	2%

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TABLE 2

DISTRIBUTION OF TELECOMMUNICATIONS EXPENDITURES BY PERCENTAGE (excluding salaries)

									,	
EXPENDITURES	1970-71	1971-72	1972 - 73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80
TELEPHONE (0220)	28.6%	33.2%	37.0%	37.5%	41.0%	42.1%	42.0%	45.3%	44.8%	46.7%
TELEGRAPH, CABLE & WIRELESS (0221)	45.0%	40.2%	36.6%	33.3%	28.8%	25.1%	23.5%	21.3%	18.9%	20.0%
OTHER TELECOM SERVICES (0222)	1.0%	0.9%	1.1%	3.0%	3.3%	3.6%	3.9%	4.4%	6.5%	6.2%
REPAIR - TELEGRAPH & TELEPHONE LINES (0621)								*	*	<u>,</u> *
REPAIR - COMMUNICATION & RELATED EQUIPMENT (0655)	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.9%
PARTS - COMMUNICATION & RELATED EQUIPMENT (0780)	7.5%	6.8%	7.6%	7.4%	7.2%	6.2%	6.6%	7.5%	6.9%	6.5%
ACQUISITION - COMMUNICATION & RELATED EQUIPMENT (0906)	12.0%	13.0%	11.8%	12.9%	13.8%	17.1%	18.1%	15.6%	16.0%	13.8%
PROFESSIONAL & SPECIAL SERVICES - TELECOM (04)	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%
RENTALS - TELECOM EQUIPMENT (05)	3.8%	3.8%	3.8%	3.8%	3.8%	3.8%	3.8%	3.8%	4.9%	4.6%

^{*} Less than 0.1 %

TABLE 3

DISTRIBUTION OF TELECOMMUNICATIONS EXPENDITURES (excluding salaries)

EXPENDITURES	1970-71 (\$ 000)	1971-72 (\$000)	1972-74 (\$000)	1973-74 (\$000)	1974-75 (\$000)	1975-76 (\$ 000)	1976-77 (\$ 000)	1977 - 78 (\$ 000)	1978-79 (\$000)	1979-80 (\$ 000)
TELEPHONE (0220)	25,463	30,856	37,071	42,993	52,860	65,565	75,617	93,006	111,583	112,735
TELEGRAPH, CABLE & WIRELESS (0221)	40,035	37,334	36,728	38,187	37,099	39,117	42,256	43,743	47,045	48,323
OTHER TELECOM SERVICES (0222)	892	864	1,150	3,361	4,228	5,667	6,964	9,042	16,193	15,031
REPAIR - TELEGRAPH & TELEPHONE LINES (0621)								45	32	10
REPAIR - COMMUNICATION & RELATED EQUIPMENT (0655)	1,510	1,579	1,705	1,948	2,191	2,645	3,058	3,449	4,264	4,486
PARTS - COMMUNICATION & RELATED EQUIPMENT (0780)	6,635	6,310	7,604	8,474	9,330	9,708	11,842	15,458	17,109	15,781
ACQUISITION - COMMUNICATION &		* .				i.				
RELATED EQUIPMENT (0906)	10,609	12,072	11,868	14,787	17,780	26,398	32,642	32,129	39,960	33,372
PROFESSIONAL & SPECIAL SERVICES - TELECOM (04)	356	372	401	458	515	622	719	854	646	656
RENTALS - TELECOM EQUIPMENT (05)	3,377	3,531	3,812	4,353	4,898	5,915	6,837	7,780	12,163	11,035
TOTALS	88,877	92,918	100,339	114,561	128,901	155,637	179,935	205,506	248,995	241,429

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1979/80 ANNUAL TELECOMMUNICATIONS REPORT
FORM 2 - DETAILS OF TELECOMMUNICATION EXPENDITURES FOR 1979/80

APPLICATION EXPENDITURES	DOC (\$ 000)	TELCO (\$000)	CN/CP (\$000)	TELE- GLOBE (\$ 000)	OTHER (\$ 000)	TOTAL (\$000)
VOICE - INTER - CITY - PUPLIC	0	. 24232	501	0	275	25008
VOICE - INTER - CITY - GOV'T.	31047	0	0	0	0	31047
VOICE - INTER - CITY - OTHER	4338	2984	2245	204	2861	12632
VOICE - LOCAL SERV - NCR	912	14973	66	0	4479	20430
VOICE-LOCAL SERV-NON-NCR	1478	29559	416	0	19100	50553
DATA - INTER- CITY- PUBLIC	0	16595	6688	. 0	817	24100
DATA-INTER-CITY-GOV'T.	3290	0	0	0	0	3290
DATA-INTER-CITY-OTHER	3756	1990	10940	1743	4101	22530
DATA-LOCAL SERV-NCR	3	9921	3583	0	28123	41630
DATA - LOCAL SERV-NON - NCR	58	719	1003	0	5090	6870
TOTAL EXPENDITURES	44882	100973	25442	1947	64846	238090

1 12 -

TABLE 5 BREAKDOWN OF OPERATIONAL TELECOMMUNICATIONS EXPENDITURES FOR 1978/79 AND 1979/80

		SERVICE	TOTAL (02) OF TELECOMMUN EXPENDIT	ICATIONS		TOTAL (02) (RES RECOVERED	
			\$	%	\$ -	% OF GTA	% OF OP. EXP.
		INTERCITY	64,847,680	36.8	42,096,543	80.7	23.9
1979/80	VOICE -	LOCAL SERVICES	47,794,320	27.1	2,438,987	4.7	1.4
1313733		INTERCITY	47,837,725	27.2	7,634,622	14.6	4.3
	DATA -	LOCAL SERVICES	15,514,275	8.9	*	*	*
	TOTALS		175,994,000	100.0	52,170,152	100.0	29.6
	VOICE -	INTERCITY	60,658,000	34.7	40,739,895	81.94	23.3
1978/79		LOCAL SERVICES	48,990,700	28.0	2,595,877	5.22	1.5
		INTERCITY	49,843,500	28.5	6,382,440	12.84	3.7
	DATA-	LOCAL SERVICES	15,328,800	8.8	*	*	*
	TOTALS		174,821,000	100.0	49,718,212	100.0	28.5

^{*} Cost of data local services is included with data intercity

TABLE 6

PERCENTAGE OF TOTAL TELECOMMUNICATION EXPENDITURES FOR VOICE AND DATA COMMUNICATIONS RELATED TO SHARED, CUSTOMIZED AND DEPARTMENTAL SERVICES 1979 / 80

SERVICE	% SHARED	% CUSTOMIZED	% DEPARTMENTAL
VOICE COMMUNICATIONS	42.6490	3.8198	53.5312
DATA COMMUNICATIONS	3.2965	2.5279	94.1756

TABLE 7

1979/80 ANNUAL TELECOMMUNICATIONS REPORT FORM 3 - NUMBER OF TELECOMMUNICATIONS PERSONNEL AND RELATED COSTS 1979/80

			CLASS	NCR	NON NCR	NON	TOTAL
OTAL MAN - YEARS	,	;		90543	287372	4457	38237
NUMBER OF TELECOM PERSO	NNEL (BY CLASS)		7				
O. OF PERS. MAN & CON.		1 :	AS .	109	90	- 0	19
			cs	79	4	0	8:
	- *		FI	11	3	0	1. 1.
	•		OM	5	0_	0	ļ
	•	*	S X ENG	1	<u> </u>		
			EL	7	0	. 1	-
			PG	+	ō	0	
•	\cdot .		· CR·	4	1	0	
	•		PM		1		ļ
			LS	1	0	0	
NO. OF PERS ADMIN. SUP.	•	+1,	CR	126	282	l 0	1
10. OF FERS, " ADMIN SUR	,		ST	126 37	36	0	40 7
			AS	33	16-	0	4
•	•		GES-MES		. 0	. 7	. 1
•			OTHERS	15	0	0	7
•			CM	6	33	0	3
			EL	3	0	0	ļ
			D A OCE	0 2	4	0	
•			SCY	6	1 - 1	0	
	•		CS	5	0	0	
		*	DD	.2	0	:0	<u> </u>
	•	•	PG	1	1	0	
	• • • • • • • • • • • • • • • • • • • •		GL-MAN	0	1	0	<u> </u>
NO OF BEDS FOLLID OBEO			**********	7	1 220	122	₩ 1 67
NO OF PERS EQUIP OPER			C M	216 58	329 412	132	67
•	· ′		IS	1 7	0	Ö	
	,		OA:	217	72	Ŏ	28
			COM	3	0	-0	
	* *		ST	7	41	0	4
	<i>≥</i> ′		SCY	1	<u> </u>	<u> </u>	
			RO		5 2	0	-
			OTHERS	4	260	- 6	26
		,	CON	0	1	0	
•			OCE	, 1	0	0	1
· · · · · · · · · · · · · · · · · · ·							
NO OF PERS. ENG/MAINT			EL	47	4.3	33	12
			E G E N	0	1 0	.0	
			GS	15	2	0	
			GL	0	. 5	Ŏ	
			CM	1	0	0	<u> </u>
	·		CR	0	3	0	
• •	•	•	EN-ENG		1	0	*********
NO OF PERS ENG SUPP	•		OA	T 1	T 0	0	**************************************
	1.44.		ENG	10	 	ŏ	+
			EL	3	o	Ö.	1
			DD	. 2	4	0	
			SI	1	0.	0	
			CR	3	.0	0	ļ
	•		AS	5	0.	0	ļ
			CS EN-ENG	I	0.	1 - 6	
TELECOM UNIF. PERS.			CIA- EIAG	779	2327	9	311
TELECOM CONTR. PERS				39	62	1	10
TOTAL PERSONNEL				1877	4046	183	610
COST OF SALARIES (\$ 000)				31635	70395	3367	0539
FUNDS FOR TRAINING (\$00	0)			710	272	15	33
COST - CONT PERS. (\$ 000)				718 32413	1,25 7078 7	3382	85
TOTAL COST			L	105+10	1,0,0,	1 3302	10658

TABLE 8

TELECOMMUNICATIONS EMPLOYEES 1979/80

PSC CATEGORY	GROUP NAME	NUMBER EMPLOYED
CR CM DA AS ME EL ST CS GES/MES ENG FI DD GL RO OM PG COM OCE SCY OE CO IS SI EG SX GL-MAN CON PM	CLERICAL & REGULATORY COMMUNICATION DATA CONVERSION ADMINISTRATIVE SERVICES MUNICIPAL EMPLOYEE ELECTRONICS SECRETARIAL, STENCGRAPHIC & TYPING CCMPUTER SYSTEM ADMINISTRATION OTHERS GENERAL SERVICES MESSENGER SERVICE ENGINEERING & LAND SURVEY FINANCIAL ADMINISTRATION DRAFTING & ILLUSTRATION DRAFTING & ILLUSTRATION GENERAL LABOUR & TRADE RADIO OPERATIONS ORGANIZATION & METHODS PURCHASING & SUPPLY COMMUNICATIONS CLERK MACHINE OPERATOR SECRETARY OFFICE EQUIPMENT COMMERCE INFORMATION SERVICES SOCIAL SCIENCE SUPPORT ENGINEERING & SCIENTIFIC SUPPORT SENIOR EXECUTIVE GENERAL LABOUR & TRADE—MANIPULATING DATA PROCESSING—DATA CONVERSION PROGRAM ADMINISTRATION	889 717 294 250 197 137 121 93 82 17 17 15 14 8 5 5 5 3 3 2 2 2 1 1 1 1 1 1
PSC TOTAL		2,889
UNIFORMED PERSONNEL		3,115
CONTRACTED & CONSULTANTS		102
TOTAL		6,106

TABLE 9

OPERATIONAL EXPENDITURES ACTUAL AND FORECAST

(0220, 0221, 0222, 05, 0621, 0655)

YEAR	ACTUAL (\$ 000)	FORECAST (\$ 000)	RATE INCREASE (\$ 000)
1970/71	71,277		
1971/72	74,164		4.1
1972/73	80,466		8.5
1973/74	90,842	à.	12.7
1974 / 75	101,276		11.5
1975/76	118,910		17.4
1976/77	134,732		13.3
1977/78	157,065		16.6
1978/79	191,280		21.8
1979/80	191,620		0.2
1980/81		223,077	16.4
1981 /82	,	252,159	13.0
1982/83		285,033	13.0
1983/84		322,193	13.0
1984/85		364,197	13.0
		304, 137	

Average annual rate increase 1970/71 - 1984/85 is 12.5 %

TABLE 10

TELECOMMUNICATIONS EXPENDITURES ACTUAL AND FORECAST (0780, 0906)

YEAR	ACTUAL (\$000)	FORECAST (\$ 000)	RATE INCREASE %
1970/71	17,244		
1971 / 72	18,382		6.6
1972 / 73	19,472		5.9
1973/74	23,261		19.5
1974 / 75	27,110		16.5
1975 / 76	36,106		33.2
1976/77	44,484		23.2
1977/78	47,587		7.0
1978 / 79	57,069		19.9
1979 / 80	49,153		- 13.9
1980/81		69,247	40.9
1981 / 82		80,117	15.7
1982/83		92,692	15.7
1983 / 84		107,242	15.7
1984/85		124,075	15.7
·			_

TABLE 11
TELEPHONE EXPENDITURES ACTUAL AND FORECAST
(0220)

YEAR	ACTUAL (\$ 000)	FORECAST (\$ 000)	RATE INCREASE
1970/71	25,463		
1971/72	30,856		21.2
1972 / 73	37,071		20.1
1973/74	42,993		16.0
1974/75	52,860		23.0
1975/76	65,565		24.0
1976/77	75,617		15.3
1977/78	93,006	Company of the Compan	23.0
1978/79	111,583		20.0
1979/80	112,735		01.0
1980/81	112,100	150,228	33.3
1981/82		178,983	19.1
1982/83		213,241	19.1
1983/84		254,056	19.1
1984/85		302,683	19.1

TABLE 12

TOTAL TELECOMMUNICATIONS EXPENDITURES

(02, 04, 05, 06, 07, 09)

YEAR	ACTUAL (\$ 000)	FORECAST (\$000)	RATE INCREASE
1970/71	88,877		4.6
1971/72	92,918		8.0
1972/73	100,339	-	·
1973/74	114,501		14.1
1974/75	128,901		12.6
1975 / 76	155,637		20.7
1976/77	179,935		15.6
1977/78	205,506		14.2
1978/79	248,995		21.2
1979/80	241,429		- 03.0
1980/81		293,079	21.4
1981/82	,	332,905	13.6
1982/83		378,141	13.6
1983/84			13.6
1984/85		429,525	13.6
	·	487,891	

TABLE 13

TOTAL TELECOMMUNICATIONS EXPENDITURES

(01, 02, 04, 05, 06, 07, 09)

YEAR	ACTUAL	FORECAST	RATE INCREASE
	(\$ 000)	(\$ 000)	%
1976/77	241,510		
1977/78	275,047		13.9
1978/79	343,017		24.7
1979/80	349,543		01.9
1980/81		409,842	17.3
1981/82		459,009	12.0
1982/83		514,333	12.1
1983/84		576,612	12.1
1984/85		646,745	12.2
			_

TABLE 14

TELEPHONE EXPENDITURE PER PERSON - YEAR

ACTUAL AND FORECAST

YEAR	TOTAL PERSON-YEAR	TELEPHONE EXPENDITURES (\$ 000)	TELEPHONE EXPENDITURES PER RERSON-YR. (\$)	RATE INCREASE %
1970/71	311,476	25,463	81.65	20,6
1971/72	312,928	30,856	98.60	
1972/73	319,571	37,071	116.01	17.7
1973/74	330,740	42,993	129.99	12,1
1974/75	344,474	52,860	153.45	18.1
1975/76	358,603	65,565	182.83	19.1
1976/77	363,411	75,617	208.07	13.8
1977/78	369,985	93,006	251.38	20.8
1978/79	398,864	111,583	279.75	11.3
1979/80	382,372	112,735	294.91	5.4
1960/81	382,372	150,228	392.88	33,2
1981 /82	382,372	178,983	468.09	19.1
1982/83	382,372	213,241	557.68	19.1
1983 / 84	382,372	254,056	664.42	19.1
1984/85	382,372	302,683	791.59	19.1

TABLE 15
GTA REVOLVING FUND

YEAR	ACTUAL AND PROGRAM FORECAST (\$ 000)	RATE INCREASE %	EXPONENTIAL FORECAST (\$ 000)	RATE INCREASE %
1972/73	13,213			
1973 /74	16,438	24.4		
1974 /75	20,407	24.1		
1975 / 76	26,776	31.2		
1976 /77	33,098	23.6		
1977 / 78	40,187	21.4	,.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1978 / 79	49,343	22.8	,	
1979 / 80	52,170	05.7		
1980 /81	64,359	23.4	71,593	37.2
1981 / 82	72,841	13.2	88,023	22.9
1982 /83	78,649	8.0	108,223	22.9
1983/84	85,159	8.3	133,058	22.9
1984/85	* 94,139	10.5	163,593	22.9

^{*} PROGRAM FORECAST FOR 1984/85 WAS NOT AVAILABLE AND THEREFORE IT WAS DERIVED FROM EXPONENTIAL REGRESSION CURVE FITTING USING 1980/81 - 1983/84 FORECAST DATA

TABLE 16

COST RECOVERY VS TOTAL OPERATIONAL TELECOMMUNICATION EXPENDITURES

YEAR	GOVERNMENT TELECOMM. AGENCY	OPERATIONAL TELECOMM. EXPENDITURES	% GTA / OPER. TELECOMM. EXPENDITURES
1972 /73	13,231,000	74,949,000	17.7
1973 /74	16,438,000	84,541,000	19.4
1974 / 75	20,407,000	94,187,000	21.7
1975/76	26,776,000	110,349,000	24.3
1976 /77	33,098,000	124,837,000	26.5
1977/78	40,187,000	145,791,000	27.6
1978 / 79	49,343,000	174,821,000	28.2
1979 / 80	52,170,000	176,089,000	29.6



TABLE 17

GTA COST RECOVERY PERCENTAGE OF TOTAL OPERATIONAL EXPENDITURES ACTUAL AND FORECAST

YEAR	% OF TOTAL OPERATIONAL EXPENDITURES	FORECAST %
1972 /73	17.7	
1973 / 74	19.4	
1974 /75	21.7	
1975 /76	24.3	
1976 / 77	26.5	·
1977/78	27.6	
1978 / 79	28.2	
1979/80	29.6	
1980/81		32.5
1981/82		34.3
1982/83		36.1
1983/84		38.0
1984/85	·	39.8

TABLE 18

BREAKDOWN OF OPERATIONAL EXPENDITURES BY DEPT / AGENCY

		OPERATIONAL EXPENDITURES		
DEPT/AGENCY	0220	0221	0222	TOTAL
1. NATIONAL DEFENCE	12793	31207	16	44016
2. TRANSPORT CANADA	8660	5464	4939	19063
3. EMPLOYMENT AND IMMIGRATION	12888	2091	1040	16019
4. ENVIRONMENT	5603	412	4305	10320
5. EXTERNAL AFFAIRS	4023	4998	44	9065
6. REVENUE CANADA (TAXATION)	7419	184	924	8527
7. SOLICITOR GENERAL RCMP	7643	301	. 21	7965
8. NATIONAL HEALTH AND WELFARE	4901	154	24	5079
9. SUPPLY AND SERVICES	3736	420	615	4771
10. POST OFFICE	3947	207	416	4570
11. INDIAN AND NORTHERN AFFAIRS	3927	266	28	4221
12. FISHERIES AND OCEANS	3059	164	22	3245
13. CORRECTIONAL SERVICES	2820	256	54	3130
14. AGRICULTURE	2734	102	188	3024
15. PUBLIC WORKS	2352	242"	272	2866
16. REVENUE CANADA (CUSTOMS AND EXCISE)	2408	96	217	2721
17. INDUSTRY, TRADE AND COMMERCE	2118	123	169	2410
18. STATISTICS CANADA	2013	16	187	2216
19. SECRETARY OF STATE	1687	28	89	1804
20. ENERGY, MINES AND RESOURCES	1340	99	323	1762
21. PUBLIC SERVICE COMMISSION	1472	66	69	1607
22. REGIONAL ECONOMIC EXPANSION	1342	20	. 120	
23. COMMUNICATIONS	1217	78		1482
24. NATIONAL RESEARCH COUNCIL		40	98	1393
25. VETERANS AFFAIRS	969 1180	21	201	1.210 1207
26. CONSUMER AND CORPORATE AFFAIRS	1083	13	. 6	1120
27. JUSTICE	913	12	0.	925
28. CHIEF ELECTORAL OFFICER	664	239	0	903
29. NATIONAL FILM BOARD	785	21	92	898
30. PRIVY COUNCIL	596	28	92.	
31. NATIONAL MUSEUMS	447	2 2	142	624 591
32. CANADIAN TRANSPORT COMMISSION	469	65	0	534
33. FINANCE	448	7	10	465
34. TREASURY BOARD	. 445	7	17	463
35. LABOUR	417	26	0	443
36. CANADIAN INTERNATIONAL DEVELOPMENT AGENCY	369	6	0	375
37. CANADIAN RADIO-TV AND TELECOM. COMMISSION	273	9	13	
38. NATIONAL ENERGY BOARD	273	31	2	295
39. AUDITOR GENERAL				289
10. SOLICITOR GENERAL	261 245	1 1	26	288
11. PUBLIC ARCHIVES	* · · * · · · · · · · · · · · · · · · ·	 		248
12. NATIONAL LIBRARY	198	4	23	225
43. NATIONAL PAROLE BOARD	114	29	73	216
	156	33	0	189
44. ECONOMIC COUNCIL OF CANADA 45. ATOMIC ENERGY CONTROL BOARD	103	9	0	103
	91	8	1	100
46. SCIENCE AND TECHNOLOGY	94	2	0	96
47. COMMISSIONER OF OFFICIAL LANGUAGES 48. PUBLIC SERVICE STAFF RELATIONS BOARD	83	1	2	86
	80	2	C	82
49. CANADIAN GOVERNMENTAL CONFERENCE SECRETARIA		5	0	69
50. IMMIGRATION APPEAL BOARD	59	1	0	60
51. SCIENCE COUNCIL OF CANADA	57	1	0	58
52. INSURANCE	48	0	1	49
GRAND TOTALS	111069	47609	14809	173487

TABLE 19

TOTAL PERSONNEL EXPENDITURES RANKED BY DEPARTMENT

	\cdot	TOTAL TELECOM		•
	DEPT / AGENCY	PERSONNEL EXPENDITURES	% OF TOTAL	CUMULATIVE %
		(\$ 000)		76
٦.	NATIONAL DEFENCE	51,979	.48.8	48.8
2.	ROYAL CANADIAN MOUNTED POLICE	30,177	28.3	77.1
з.	EXTERNAL AFFAIRS	7,113	6.7	83.8
4.	EMPLOYMENT AND IMMIGRATION	6,729	6.3	90.1
5.	ENVIRONMENT	3,327	3.1	93.2
<u>6.</u>	SUPPLY AND SERVICES	1,820	1.7	94.9
7.	REVENUE CANADA (TAXATION)	585	0.5	95.4
8.	TRANSPORT CANADA	579	0.5	95.9
9,	CORRECTIONAL SERVICES	525	0.5	96.4
10.	INDIAN AND NORTHERN AFFAIRS	343	0.3	96.7
11.	POST OFFICE FISHERIES AND OCEANS	321	0.3	97.0
	REGIONAL ECONOMIC EXPANSION	320 295	0.3	97.3
	AGRICULTURE	295	0.3	97.6 97.9
	INDUSTRY, TRADE AND COMMERCE	274	0.3	98.2
	PUBLIC WORKS	274	0.3	98.5
17.	REVENUE CANADA (CUSTOMS AND EXCISE)	248	0.3	98.7
	ENERGY, MINES AND RESOURCES	180	0.2	98.9
19.	COMMUNICATIONS	135	0.1	99.0
20.	NATIONAL HEALTH AND WELFARE	134	0.1	99.1
21.	NATIONAL LIBRARY	112	0.1	99.2
22.	NATIONAL ENERGY BOARD	95	0.1	99.3
23.	PUBLIC SERVICE COMMISSION	81	0.1	99.4
24.	FINANCE	. 65	. 0 . 1	99.5 -
25.	NATIONAL PAROLE BOARD	54	0.1	99.6
26.	VETERANS AFFAIRS	53	0.0	
27.	CANADIAN TRANSPORT COMMISSION	49	0.0	\
28.	CHIEF ELECTORAL OFFICER	48	0.0	<u> </u>
	NATIONAL MUSEUMS	35	0.0	
	CONSUMER AND CORPORATE AFFAIRS	34	0.0	
31.	SECRETARY OF STATE PUBLIC ARCHIVES	34	0.0	<u> </u>
33,	NATIONAL RESEARCH COUNCIL	32	0.0	
	JUSTICE	31	0.0	
	LABOUR	28	0.0	- /
36.	NATIONAL FILM BOARD	24	. 0.0	
7	IMMIGRATION APPEAL BOARD	21	0.0	
38.	CANADIAN INTERNATIONAL DEVELOPMENT AGENCY	19	0.0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
9.	CANADIAN RADIO-TV AND TELECOM, COMMISSION	19	0.0	0.4
0.	SOLICITOR GENERAL	19	0.0	/
1.	STATISTICS CANADA	19	0.0	
2.	CANADIAN GOVERNMENTAL CONFERENCE SECRETARIAT	18	. 0.0	
3.	SCIENCE AND TECHNOLOGY	16	0.0	
	AUDITOR GENERAL	12	0.0	
	ATOMIC ENERGY CONTROL BOARD	.0	0.0	
	COMMISSIONER OF OFFICIAL LANGUAGES	0	0.0	
	ECONOMIC COUNCIL OF CANADA	0	0.0	1
	INSURANCE	0	0.0	
9.	PRIVY COUNCIL	0	0.0	ļ
0.	PUBLIC SERVICE STAFF RELATIONS BOARD	0	0.0	<i> </i>
51.	SCIENCE COUNCIL OF CANADA	0	0.0	
~	TREASURY BOARD	0	0.0	

TABLE 20

TOTAL TELECOM EXPENDITURES (EXCLUDING SALARIES) RANKED BY DEPARTMENT

		<u>, , , , , , , , , , , , , , , , , , , </u>		
	DEPT/AGENCY	TOTAL EXPENDITURES (EXCLUDING SALARIES)	% OF TOTAL	CUMULATIVE %
	· . · · · · · · · · · · · · · · · · · ·	(\$000)		
	NATIONAL DEFENCE	78826	32.7	32.7
<u> 2.</u>		21311	8.9	41.6
4.	TRANSPORT CANADA EMPLOYMENT AND IMMIGRATION	20263 17033	8.4 7.1	50.0 57.1
-4. 5.		11673	4.8	61.9
6.		11489	4.8	66.7
7.		8660	3.6	70.3
8.	COMMUNICATIONS	6995	2.9	73.2
9.		5811	2.4	75.6
	NATIONAL HEALTH AND WELFARE	5213	2.2	77.8
11.		4973	2.1	79.9
12. 13.		4374	1.8	81.7
14.		4112 3651	1.7	83.4 84.9
15.		3372	1.4	86.3
16.	\`````````````````````````````````````	3048	1.3	87.6
17.		2832	1.2	88.8
18.	INDUSTRY, TRADE AND COMMERCE	. 2812	1.2	90.0
19.		2221	0.9	90.9
20.		1827	0.8	91.7
21.		1805	0.7	92.4
22.	PUBLIC SERVICE COMMISSION REGIONAL ECONOMIC EXPANSION	1610 1530	0.7	93.1
24.		1246	0.5	93.7
25.		1207	0.5	94.7
26.	CONSUMER AND CORPORATE AFFAIRS	1133	0.5	95.2
27.		944	0.4	95.6
28.		. 920	0.4	- 96.0
29.		902	0.4	96.4
30.		631	0.3	96.7
31. 32.		590	0.2	96.9
33.		562 492	0.2	97.1 97.3
34.		486	0.2	97.5
35.		. 469	0.2	97.7
36.		443	0.2	97.9
37.		331	0.1	98.0
38.		300	0.1	98.1
<u>39</u> .		296	0.1	98.2
40. 41.	AUDITOR GENERAL SOLICITOR GENERAL	291	0.1	98.3
42.		251 232	0.1	98.4
43.		189	0.1	98.5 98.6
44.		118	0.0	98.6
45.	ECONOMIC COUNCIL OF CANADA	103	0.0	98.6
46.	SCIENCE AND TECHNOLOGY	98	0.0	98.6
47.		84	. 0.0	98.6
48.	PUBLIC SERVICE STAFF RELATIONS BOARD	82	0.0	98.6
49.	CANADIAN GOVERNMENTAL CONFERENCE SECRETARIAT SCIENCE COUNCIL OF CANADA	71	0.0	98.6
50. 51.	IMMIGRATION APPEAL BOARD	68	0.0	98.6
52.		60	0.0	99.6
<u> </u>	TOTAL DEPT. NOT SURVEYED	3339	0.0	98.6
	TOTAL DEPT. SURVEYED	238090	98.6	
	GRAND TOTAL	241429		
		l		L

TABLE 21

ELECOM EXPENDITURES (INCLUDING SALARIES)

TOTAL TELECOM EXPENDITURES (INCLUDING SALARIES) RANKED BY DEPARTMENT.

		, .		
1	· ·	TOTAL EXPENDITURES	0/ or	CUMULATIVE
١.	DEPT / AGENCY	KINCLUDING SALARIES)	% OF	·
]	· 경.	1	TOTAL	%
		(\$000)		
٦.	NATIONAL DEFENCE	130,806	37.4	37.4
2.	ROYAL CANADIAN MOUNTED POLICE	51,488	14.7	52.1
3.	EMPLOYMENT AND IMMIGRATION	23,755	6.8	58.9
4.	TRANSPORT CANADA	20,842	6.0	64.9
5.	EXTERNAL AFFAIRS	18,786	5.4	70.3
6.	ENVIRONMENT	14,816	5.4	74.5
7.	REVENUE CANADA (TAXATION)	9,145	2.6	77.1
8.	SUPPLY AND SERVICES	7,634	2,2	79.3
9.	COMMUNICATIONS	7,130	2.0	81.3
10.	NATIONAL HEALTH AND WELFARE	5,349	1.5	82.8
11.	POST OFFICE	5,294	1.5	84.3
12.	INDIAN AND NORTHERN AFFAIRS	4,717	1.3	85.6
13.	FISHERIES AND OCEANS	4,432	1.3.	86.9
14.	CORRECTIONAL SERVICES	4,176	1.2	88.1
15.	AGRICULTURE	3,645	1.0	89.1
16.	PUBLIC WORKS	3,321	1.0	90.1
17.	INDUSTRY, TRADE AND COMMERCE	3,085	0.9	91.0
18.	REVENUE CANADA (CUSTOMS AND EXCISE)	3,080	0.9	91.9
19.	STATISTICS CANADA	2,240	0.6	92.5
20.	ENERGY, MINES AND RESOURCES	2,006	0.6	93.1
21.	SECRETARY OF STATE	1,838	0.5	93.6
22.	REGIONAL ECONOMIC EXPANSION	1,825	0.5	94.1
23.	PUBLIC SERVICE COMMISSION	1.691	0.5	94.6
24.	NATIONAL RESEARCH COUNCIL	1,276	0.4	95.0
25.	VETERANS AFFAIRS	1,260	0.4	95.4
26.	CONSUMER AND CORPORATE AFFAIRS	1,167	0.3	95.7
27.	JUSTICE	974	0.3	96.0
28.	CHIEF ELECTORAL OFFICER	951	0.3	96.3
29.	NATIONAL FILM BOARD	944	0.3	96.6
30.	PRIVY COUNCIL	631	0.2	96.8
31.	NATIONAL MUSEUMS	626	0.2	97.0
32.	CANADIAN TRANSPORT COMMISSION	611	0,2	97.2
33.	FINANCE	551 511	0.2	97.4 97.5
34.	CANADIAN INTERNATIONAL DEVELOPMENT AGENCY LABOUR	478	0.1	97.5
35. 36.	TREASURY BOARD	469	0.1	97.7
37.	NATIONAL LIBRARY	409	0.1	97.8
38.	NATIONAL ENERGY BOARD	391	0.1	97.9
39.	CANADIAN RADIO-TV TELECOM. COMMISSION	319	0.1	98.0
40.	AUDITOR GENERAL	303	0.1	98.1
41.		270	0.1	98.2
42.	SOLICITOR GENERAL PUBLIC ARCHIVES	264	0.1	98.3
43.	NATIONAL PAROLE BOARD	243	0.1	98.4
44.	ATOMIC ENERGY CONTROL BOARD	119	0.0	98.4
45.	SCIENCE AND TECHNOLOGY	114	0.0	98.4
46.		103	0.0	98.4
47.	CANADIAN GOVERNMENT CONFERENCE SECRETARIAT	89	0.0	98.4
48 .	COMMISSIONER OF OFFICIAL LANGUAGES	86	0.0	98.4
49.	PUBLIC SERVICE STAFF RELATIONS BOARD	82	0.0	98.4
50.	IMMIGRATION APPEAL BOARD	81	0.0	98.4
51.	SCIENCE COUNCIL OF CANADA	67	0.0	98.4
52	INSURANCE	51	0.0	98.4
<u> </u>	TOTAL DEPT NOT SURVEYED	4,967	1.4	99.8
			98.6	
	TOTAL DEPT SURVEYED	344,576	90.0	

TABLE 22
TELECOM PERSONNEL RANKED BY DEPARTMENT/AGENCY

3. EXTERNAL AFF 4. EMPLOYMENT A 5. COMMUNICATIO 6. ENVIRONMENT 7. SUPPLY AND S 8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	AN MOUNTED POLICE AIRS ND IMMIGRATION NS ERVICES NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	NO. OF PERSONNEL 29.15 15.72 37.8 33.6 29.3 15.6 12.3 5.2 3.2 2.4 2.3 2.0
2. ROYAL CANADI 3. EXTERNAL AFF 4. EMPLOYMENT A 5. COMMUNICATIO 6. ENVIRONMENT 7. SUPPLY AND S 8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	ENCE AN MOUNTED POLICE AIRS ND IMMIGRATION NS ERVICES NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	29.15 15.72 378 336 293 156 123 52 32 24
2. ROYAL CANADI 3. EXTERNAL AFF 4. EMPLOYMENT A 5. COMMUNICATIO 6. ENVIRONMENT 7. SUPPLY AND S 8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	AN MOUNTED POLICE AIRS ND IMMIGRATION NS ERVICES NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	2915 1572 378 336 293 156 123 52 32 24
2. ROYAL CANADI 3. EXTERNAL AFF 4. EMPLOYMENT A 5. COMMUNICATIO 6. ENVIRONMENT 7. SUPPLY AND S 8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	AN MOUNTED POLICE AIRS ND IMMIGRATION NS ERVICES NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	1572 378 336 293 156 123 52 32 24
2. ROYAL CANADI 3. EXTERNAL AFF 4. EMPLOYMENT A 5. COMMUNICATIO 6. ENVIRONMENT 7. SUPPLY AND S 8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	AN MOUNTED POLICE AIRS ND IMMIGRATION NS ERVICES NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	1572 378 336 293 156 123 52 32 24
3. EXTERNAL AFF 4. EMPLOYMENT A 5. COMMUNICATIO 6. ENVIRONMENT 7. SUPPLY AND S 8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	AIRS ND IMMIGRATION NS ERVICES NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	378 336 293 156 123 52 32 24
4. EMPLOYMENT A 5. COMMUNICATIO 6. ENVIRONMENT 7. SUPPLY AND S 8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	ND IMMIGRATION NS ERVICES NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	336 293 156 123 52 32 24 23
5. COMMUNICATIO 6. ENVIRONMENT 7. SUPPLY AND S 8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	NS ERVICES NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	293 156 123 52 32 24 23
6. ENVIRONMENT 7. SUPPLY AND S 8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	ERVICES NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	156 123 52 32 24 23
7. SUPPLY AND S 8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	123 52 32 24 23
8. TRANSPORT CA 9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECC 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	NADA DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	52 32 24 23
9. REVENUE CANA 10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	DA (TAXATION) ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	32 24 23
10. POST OFFICE 11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	ORTHERN AFFAIRS DA (CUSTOMS AND EXCISE)	24 23
11. INDIAN AND N 12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	DA (CUSTOMS AND EXCISE)	23
12. AGRICULTURE 13. REVENUE CANA 14. REGIONAL ECC 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	DA (CUSTOMS AND EXCISE)	
14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	DA (CUSTOMS AND EXCISE) NOMIC EXPANSION	
14. REGIONAL ECO 15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE	NOMIC EXPANSION	19
15. PUBLIC WORKS 16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE		18
16. FISHERIES AN 17. INDUSTRY, TR 18. ENERGY, MINE		18
17. INDUSTRY, TR 18. ENERGY, MINE		16
18. ENERGY, MINE	ADE AND COMMERCE	16
		13
19. NATIONAL HEA		10
20. NATIONAL LIB	RARY	8
21. CORRECTIONAL	SERVICES	7
22. NATIONAL ENE	RGY BOARD	6
23. PUBLIC SERVI	CE COMMISSION	4
24. NATIONAL PAR	OLE BOARD	4
25. FINANCE		. 4
26. CHIEF ELECTO		4 ·
27. CANADIAN TRA	NSPORT COMMISSION	. 4
28. PUBLIC ARCHI		3
29. VETERANS AFF		3
30. SECRETARY OF	STATE	3
31. LABOUR		3
32. NATIONAL RES		2
33. NATIONAL MUS		2
34. NATIONAL FIL	M BOARD	2
35. JUSTICE		2
36. IMMIGRATION		2
	CORPORATE AFFAIRS	2
38. STATISTICS C		1
39. SOLICITOR GE		· 1
40. SCIENCE AND		1
	IO-TV AND TELECOM. COMMISSION	1
	ERNATIONAL DEVELOPMENT AGENCY	
	ERNMENTAL CONFERENCE SECRETARIAT	1
44. AUDITOR GENE		1
45. TREASURY BOA		0
46. SCIENCE COUN		0
48. PRIVY COUNCI	CE STAFF RELATIONS BOARD	0
49. INSURANCE	<u>L</u>	0
50. ECONOMIC COU	NCTL OF CANADA	
51 COMMISSIONEE	OF OFFICIAL LANGUAGES	0
52. ATOMIC ENERG		0
GRAND TOTAL	TOURTHOL BOARD	6106

TABLE 23

TOTAL PERSONNEL RANKED BY DEPARTMENT / AGENCY

	·	.,
ł		
1		NO OF
	DEPT / AGENCY	PERSONNEL
		PERSONNEL
<u> </u>		
1.	NATIONAL OFFENCE	116,809
	POST OFFICE	52,819
	EMPLOYMENT ANO IMMIGRATION	24,917
4.	TRANSPORT	21,096
5.	ROYAL CANAOIAN MOUNTEO POLICE	19,937
	REVENUE CANAOA (TAXATION)	16,601
7.	ENVIRONMENT	11,604
	AGRICULTURE	11,066
9.	SUPPLY AND SERVICES	10,243
10.	CORRECTIONAL SERVICES PUBLIC WORKS	9,729 9,201
12.	REVENUE CANAOA (CUSTOMS ANO EXCISE)	9,201
	NATIONAL HEALTH AND WELFARE	8,648
	INOIAN ANO NORTHERN AFFAIRS	6,867
15.		5,036
16.	VETERANS AFFAIRS	4,900
17.	FISHERIES ANO OCEANS	4,591
18.	STATISTICS CANAOA	4,453
	ENERGY, MINES AND RESOURCES	4,178
20.		3,130
21.		3,103
	NATIONAL RESEARCH COUNCIL PUBLIC SERVICE COMMISSION	3,019
23. 24.	CONSUMER AND CORPORATE AFFAIRS	2,552
	REGIONAL ECONOMIC EXPANSION	2,433
26.	COMMUNICATIONS	1,973
	JUSTICE	1,227
28.	CANAOIAN INTERNATIONAL OEVELOPMENT AGENCY	1,018
29.	NATIONAL MUSEUMS	1,006
	TREASURY BOARO	1,001
31.	NATIONAL FILM BOARO	998
	CANADIAN TRANSPORT COMMISSION	886
33.	FINANCE PUBLIC ARCHIVES	764
	LABOUR	736 700
36.		700 529
	NATIONAL LIBRARY	515
	AUOITOR GENERAL	479
39.	CANADIAN RADIO-TV AND TELECOM, COMMISSION	447
40.		388
41.		280
42.	SOLICITOR GENERAL	252
	INSURANCE	199
	ATOMIC ENERGY CONTROL BOARO	183
	PUBLIC SERVICE STAFF RELATIONS BOARO ECONOMIC COUNCIL OF CANAOA	182
40. 47.		170 156
48.	COMMISSIONER OF OFFICIAL LANGUAGES	98
49.	IMMIGRATION APPEAL BOARO	66
50.	SCIENCE COUNCIL OF CANADA	63
51.	CHIEF ELECTORAL OFFICER	49
52.	CANADIAN GOVERNMENTAL CONFERENCE SECRETARIAT	27
	GRANO TOTAL	382,372

TABLE 24

TOTAL TELECOM PERSONNEL / TOTAL PERSONNEL RATIO

			, , 	
	DEPT/AGENCY	TELECOM PERSONNEL BY OEPT/AGENCY	TOTAL PERSONNEL BY OEPT:/AGENCY	TELECOM/ TOTAL PERSONNEI. RATIO (%)
	·			
1.	COMMUNICATIONS	293	1973	14.85
2.	CHIEF ELECTORIAL OFFICER	4	49	8.16
3.	ROTAL CANADAIN MOUNTED MOUNTED POLICE	1572	19937	7.88
4.	EXTERNAL AFFAIRS	378	5036	7.51
5.	CANADIAN GOVERNMENT CONFERENCE SECRETARIAT		27	3.70
6.	IMMAGRITION APPEAL BOARD	2	66	3.03
7.		2915	116809	~2.50
8.		8	515	1.55
9.	NATIONAL ENERGY BOARD	- 6	· 388	1.55
10.	NATIONAL PAROLE BOARD	4	280	1.43
11.	EMPLOYMENT & IMMIGRATION	336	24917	1.35
12.	ENVIRONMENT	156	11604	1.34
13.		123	10243	1.20
14.	REGIONAL ECONOMIC EXPANSION	10	2045	0.88
15.		1	156	0.64
16.		16	3103	0.52
17.		4	764	0.52
18.	CANADIAN TRANSPORT COMMISSION	4	886	0.45
19.	LABOUR	3	700	043
20.	PUBLIC ARCHIVES	3	736	0.41
21.	SOLICITOR GENERAL	1	252	0.40
22.	FISHERIES AND OCEANS	. 16	4591	0.35
23.	INDIAN AND NORTHERN AFFAIRS	23	6867	0.33
24	ENERGY MINES AND RESOURCES	13	4178	0.31
25	TRANSPORT CANADA	. 52	21096	0.25
26	CANADIAN RADIO-TV TELECOM COMMISSION	1	447	0.22
27	REVENUE CANADA CUSTOMS AND EXCISE	19	9003	0.21
28	AUDITOR GENERAL	1	479	0.21
29	PUBLIC WORKS	18	9201	0.20
30		2	1006	0.20
31	NATIONAL FILM BOARD	2	998	0.20
32	REVENUE CANADA TAXATION	32	16601	0.19
33		20	11066	0.18
34	· /···································	4	2552	0.16
35		2	1227	0.16
36		10	8648	0.12
37		3	3130	0.10
38		1	1018	0.10
39		2	2433	0.08
40		- 7	9729	0.03
41		2	3019	0.07
42		3	4900	0.06
43		24	52819	0.05
44		1	4453	0.03
	TREASURY BOARD	'	1001	0.00
46		, , , , , , , , , , , , , , , , , , ,	63	0.00
47		1 <u>ŏ</u>	182	0.00
	PRIVY COUNCIL	 	529	0.00
49		0	199	0.00
50	<u> </u>		170	0.00
51		0	· · · · · · · · · · · · · · · · · · ·	
5.2			98	0.00
192	<u> </u>	0	183	0.00
L	GRAND TOTAL	6106	382372	

TABLE 25

OPERATIONAL EXPENDITURES / TOTAL PERSONNEL RATIO

			· · · · · · · · · · · · · · · · · · ·	,
1		OPERATIONAL	TOTAL	OPERATIONAL
	DEPT/AGENCY		1	EXPENDITURES
-		EXPENDITURES	PERSONNEL	- TOTAL PERSONNEL
		(000)		RATIO
<u> </u>				10100 0 5
1.	CHIEF ELECTORAL OFFICER	903	49	18428.6
2.	CANADIAN GOVERNMENTAL CONFERENCE SECRETARIAT	69	. 27	2555.6
3.	EXTERNAL AFFAIRS	9065	5036	1800.0
4.		624	529	1179.6
5.	SCIENCE COUNCIL OF CANADA	248	252	984.1
<u>6.</u>	IMMIGRATION APPEAL BOARD	58	63	920.6
8:	TRANSPORT CANADA	19063	66 21096	909.1 903.6
9.	NATIONAL FILM BOARD	898	998	899.8
10.	ENVIRONMENT	10320	11604	889.3
17.	COMMISSIONER OF OFFICIAL LANGUAGES	86	98	877.6
12:	INDUSTRY, TRADE AND COMMERCE	2410	3103	776.7
13.		925	1227	753.9
14.		289	388	744.8
15.	REGIONAL ECONOMIC EXPANSION	1482	2045	724.7
16.	FISHERIES AND OCEANS	3245	4591	706.8
17.	COMMUNICATIONS	1393	1973	706.0
18.	NATIONAL PAROLE BOARD	189	280	675.0
19.	CANADIAN RADIO-TV AND TELECOM COMMISSION	295	447	660.0
20.	EMPLOYMENT AND IMMIGRATION .	16019	24917	642.9
21.	LABOUR	443	700	632.9
22.	PUBLIC SERVICE COMMISSION	1607	2552	629.7
23.	SCIENCE AND TECHNOLOGY	96	156	615.4
24.	INDIAN AND NORTHERN AFFAIRS	4221	6867	614.7
25.	FINANCE	465	764	608.6
26.		103	170	605.9
27.	CANADIAN TRANSPORT COMMISSION	534	886	602.7
28.	AUDITOR GENERAL	. 288	479	601.3
29.		591	1006	587.5
30.	NATIONAL HEALTH AND WELFARE	5079	8648	587.3
31.	SECRETARY OF STATE	1804	3130	576.4
32.	ATOMIC ENERGY CONTROL BOARD	100	183	546.4
33.		8527	16601	513.6
34.		2216	4453	497.6
35.		4771	10243	465.8
36.	TREASURY BOARD	463	1001	462.5
37. 38.	CONSUMER AND CORPORATE AFFAIRS PUBLIC SERVICE STAFF RELATIONS BOARD	1120	2433	460.3
		82 1762	182 4178	450.5 421.7
39. 40.		216	515	
41.	NATIONAL LIBRARY NATIONAL RESEARCH COUNCIL	1210	3019	419.4
42.		7965	19937	399.5
43.	NATIONAL DEFENCE	44016	116809	376.8
44.	CANADIAN INTERNATIONAL DEVELOPMENT AGENCY	375	1018	368.4
	CORRECTIONAL SERVICES	3130	9729	321.7
	PUBLIC WORKS	2866	9201	311.5
47.	<u> </u>	225	736	305.7
48	REVENUE CANADA (CUSTOMS AND EXCISE)	2721	9003	302.2
49.		3024	11066	273.3
50.	VETERANS AFFAIRS	1207	4900	246.3
51.	INSURANCE	49	199	246.2
52.	POST OFFICE	4570	52819	86.5
	GRAND TOTALS	. 173487	382372	453.7
			· · · · · · · · · · · · · · · · · · ·	·

TABLE 26

RELATIONSHIP OF DEPARTMENTAL EXPENDITURES

AND PERSON-YEARS FOR 1979/80

		A	8	С	D	. ε	F	G	Н
	,	TELECOM	TOTAL	%	O 2 OPER.	TOTAL	%	D/A	0/8
	DEPARTMENT /AGENCY	PERSON-	PERSON-	A/B	EXP.	EXP	D/E	1	(\$000)
		YEARS		A/B		i .	0/2	\$	13000
		TEARS	YEARS		(\$000)	(\$000)			1
1.	NATIONAL DEFENCE	2915	116809	2.50	44016	78826	55.84	15.10	.38
2.	SOLICITOR GENERAL RCMP	1572	19937	7.88	7965	21311	37.38	5.07	.40
3.	EXTERNAL AFFAIRS	378	5036	7.51	9065	11673	77.66	23.98	1.80
4.	EMPLOYMENT & IMMIGRATION	336	24917	1.35	16019	17033	94.09	47.68	.64
5.	COMMUNICATIONS	293	1973	4.85	1393	6995	19.91	4.75	.71
6.	ENVIRONMENT	156	11604	1.34	10320	11489	89.83	66.15	.89
7.	SUPPLY & SERVICES	123	10243	1.20	4771	5814	82.06	38.79	.47
8.	TRANSPORT CANADA	52	21096	.25	19063	20263	94.08	366.60	.90
9.	REVENUE CANADA (TAXATION)	32	16601	.19	8527	8660	99.61	266.47	.51
10.	POST OFFICE	24	52819	.05	4570	4973	91.90	. 190,42	.09
11.	INDIAN & NORTHERN AFFAIRS	23	6867	.33	4221	4374	96.50	183.52	.61
12.	AGRICULTURE	20	11066	.18	3024	3372	89.76	151.20	.27
13.	REVENUE CANADA (CUSTOMS & EXCISE)	19	9003	21	2721	2832	96.08	143,21	30
14.	REGIONAL ECONOMIC EXPANSION	18	2045	.88	1482	1530	96.86	82.33	.72
15.	PUBLIC WORKS	18	9201	.20	2866	3048	94.06	159.22	.31
16.	FISHERIËS & OCEANS	16	4591.	. 35	3245	4112	78.92	202.81	.71
17.	INDUSTRY TRADE & COMMERCE	16	3103	.52	2410	2812	85.73	150.63	.78
18.	ENERGY MINES & RESOURCES	13	4178	.31	1762	1827	96.50	135.54	.42
19.	NATIONAL HEALTH & WELFARE	10	8648.	.12	5079	5213	97.39	507.90	.59
20.	NATIONAL LIBRARY	. 8	515	1.55	216	331	65,06	27.00	42
21.	CORRECTIONAL SERVICES .	7	9729:::	.07	3130 .	3651	85.73	447,14	32
22.	MATIONAL ENERGY BOARD	6	388	1.55	289	296	97.64	48.17	. 7.4
<u>23.</u>	PUBLIC SERVICE COMMISSION	4	2552	.16	1607	1610	99.81	401.75	.63
<u> 24 .</u>	NATIONAL PAROLE BOARD	4	280	1.43	189	189	100.00	47.25	.67
25.	FINANCE	4	.764	.52	465	486	95.68	116.25	.61
26.	CHIEF ELECTORIAL OFFICER	4	. 49	8.16	903	902	100.00	225.75	18.43
<u>27.</u>	CANADIAN TRANSPORT COMMISSION	4	886	.45	534	562	95.02	133.50	.50
28.	PUBLIC ARCHIVES	3	736	,41	225	232	96.98	75.00	.31
<u> 29.</u>	VETERANS AFFAIRS	3	490D	.06	1207	1207	100.00	402.33	.25
30. 31.	SECRETARY OF STATE	3	3130	.10	1804	1805	100.00	601.33	, 58
	LABOUR	3	700	.43	443	443	98.44	147.67	.63
<u>32.</u>	NATIONAL RESEARCH COUNCIL	2	3019	.07	1210	1246	97.19	605.00	.40
$\frac{33.}{34.}$	NATIONAL MUSEUMS NATIONAL FILM BOARD	2	1006	.20	591	590	100.00	295.50	.59
34. 35.	JUSTICE	. 2	998	.20	898	920	97.61	449.00	.90
<u>35.</u> 36.	IMMIGRATION APPEAL BOARD	. 2	1227	.16	925	944	97.99	462.50	.75
30. 37.		2	66 · 2433	3.03	60	60.	100.00	30.00	.91
<u>37.</u> 33.	CONSUMER & CORPORATE AFFAIRS STATISTICS CANADA	2	4453	.08	1120 2216	1133 2221	98.85 99.77	560.85 216.00	.46
30. 39.	SOLICITOR GENERAL		252	.40	248	251	98.80	248.00	.50
39.	SCIENCE & TECHNOLOGY		156	.64	96	98		96.00	.98
41.	CANADIAN RADIO-TV & TELECOM. COMM.	- 1	447	.22	295	300	97.96 98.33	295.00	.66
42.	CANADIAN INT'L DEVELOPMENT AGENCY	┞──┤	1018	.10	375	492	76.22	375.00	37
33.	CANADIAN GOVERNMENTAL CONFERENCE		27	3.70	69	71.	97.18	69.00	2.56
44.	AUDITOR GENERAL		479	.21	288	291	98.97	288.00	.50
45.	TREASURY BOARD	6	1001	:00	463	469	98.72	.00	.46
6.	SCIENCE COUNCIL OF CANADA	ö	53	.00	58	68	86.57	.00	.92
47.	PUBLIC SERVICE STAFF REL. BOARD	. 6	182	:00	82	82	100.00	.00	45
48.	PRIVY COUNCIL	0	529	.00	624	631	98.89	.00	1.18
<u>;;</u>	INSURANCE	ŏ	199	.00	49	50	96.08	.00	, 25
7:5	ECONOMIC COUNCIL OF CANADA	- 6	170	.00	103	103	100.00	.00	1.51
	COMMISSIONER OF OFFICIAL LANGUAGES	- 6	98	.00	86	84	100.00	.00	38:
	ATOMIC ENERGY CONTROL BOARD	- 6	183	.00	100	118	84.03	.00	+ :00 55
٠	I ATOMIC ENERGI CONTROL BOARD								

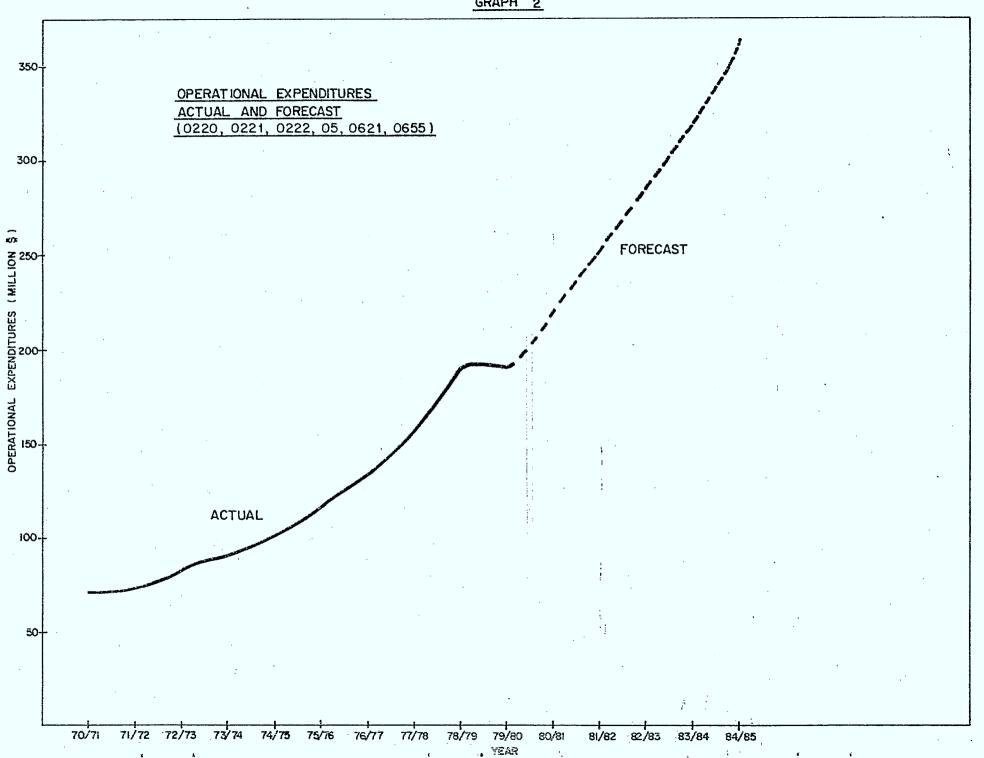
TABLE 27

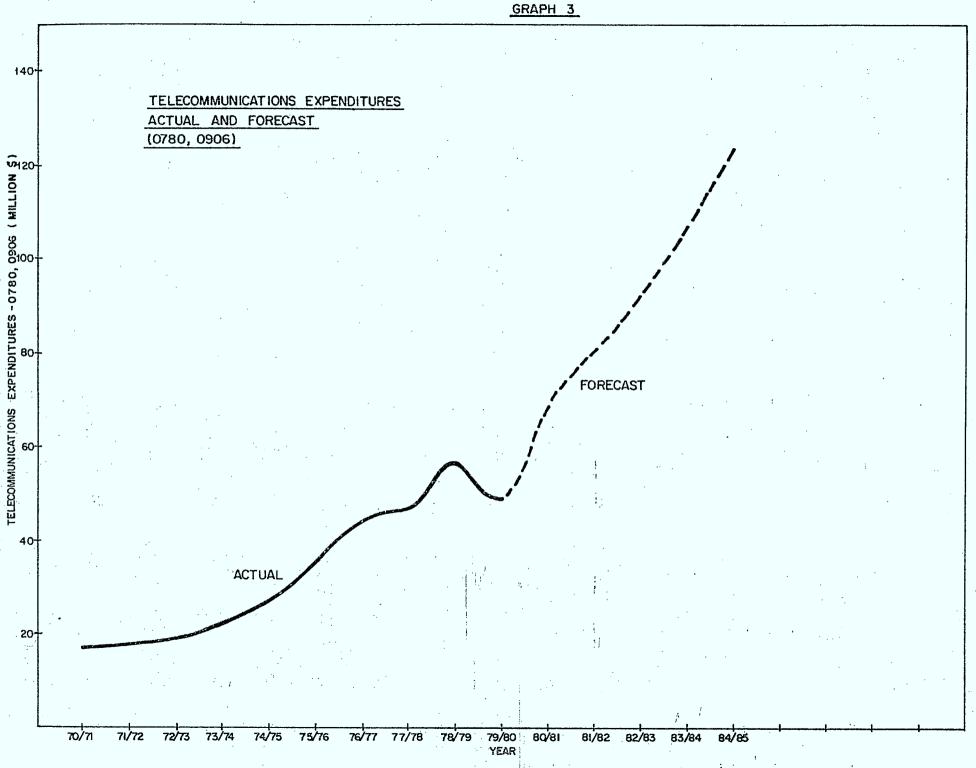
PERCENTAGE DISTRIBUTION OF GOVERNMENT TELECOMMUNICATION AGENCY COST RECOVERY

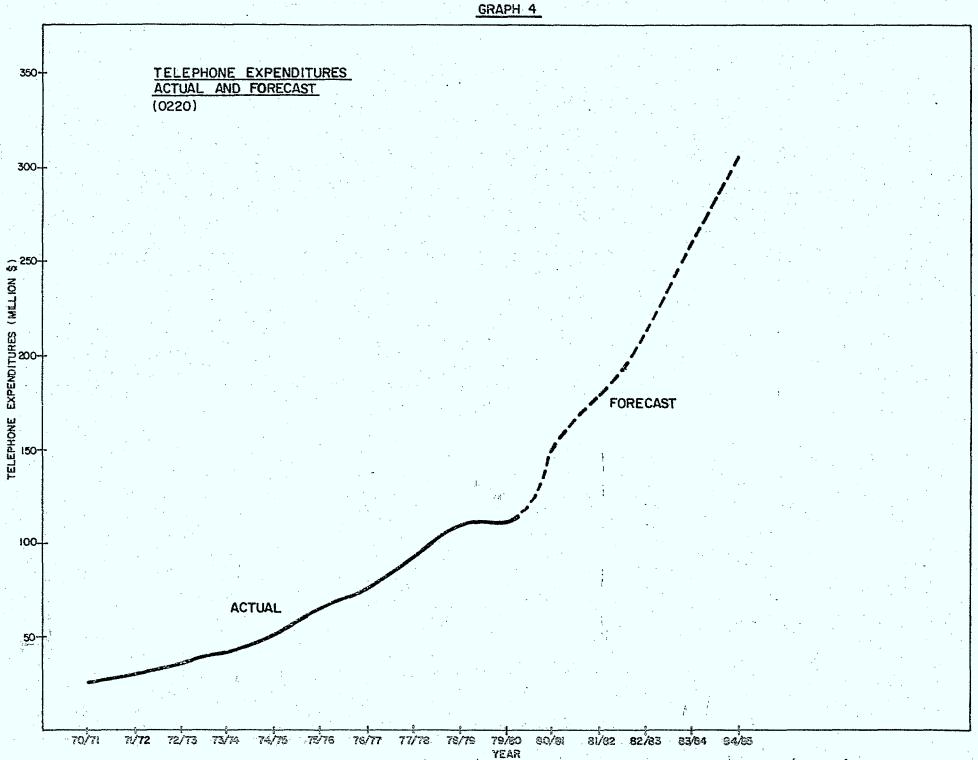
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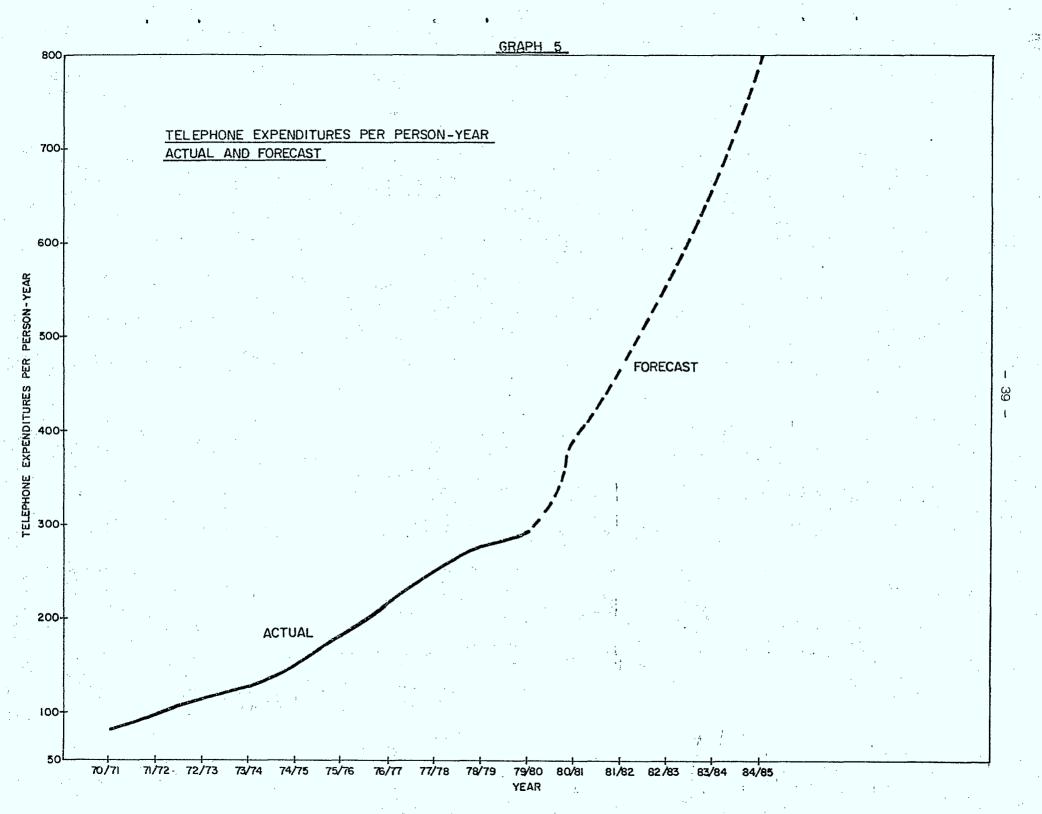
DEPT/AGENCY COST RECOVERY (%) DISTRIBUTION OF 6TA TOTAL TELECOM PROPERTY (%) COST RECOVERY (%) FOR THE PROPERTY (%) PDEP TOTAL TELECOM PROPERTY (%) PDEP TOTAL TEL		1979 / 80					
NATIONAL REVENUE (TAXATION) 7.4 4.9 12.3 12.3 37.7 23.75	DEPT./AGENCY	OF GTA			PERCENTAGE DISTRIBUTION	OF DEPT. GTA	TOTAL TELECOM EXPENDITURES BY DEPT.
2. NATIONAL REVENUE (TAXATION) 7.1 2.1 9.2 21.5 55.3 9,14 3. NATIONAL DEFENCE 8.1 0.0 8.1 29.6 5.4 130.80 4. TRANSPORT CANADA 5. SUPPLY AND SERVICES 3.2 0.9 4.1 39.8 37.1 7,63 6. ENVIRONMENT 3.4 0.0 3.4 43.2 15.6 14.87 7. HEALTH AND WELFARE 2.9 0.2 3.1 46.3 31.3 5,34 8. ROYAL CANADIAN MOUNTED POLICE 3.0 0.0 3.0 49.3 7.4 51,48 9. POST OFFICE 2.1 0.6 2.7 52.0 28.0 5.29 10. EXTERNAL AFFAIRS 1.5 1.0 2.5 54.5 11.1 18,78 11. PUBLIC WORKS 2.1 0.3 2.4 56.9 41.8 3,32 12. INDUSTRY, TRADE AND COMMERCE 1.9 0.5 2.4 59.3 45.3 3,08 13. NATIONAL REVENUE (CUSTOMS AND EXCISE) 1.7 0.6 2.3 61.6 41.9 3,08 15. STATISTICS CANADA 1.8 0.1 1.9 65.8 44.5 2.24 16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0 1.9 67.7 22.0 4.71 17. CORRECTIONAL SERVICES 1.3 0.1 1.4 70.7 46.7 1,69 18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 72.1 41.0 1.83 20. COMMUNICATIONS 1.0 0.1 1.2 74.6 33.8 2.00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1.82 23. FISHERIES AND CEANS 1.0 0.0 0.0 76.7 12.1 4,43 25. JUSTICE 0.8 0.0 0.0 0.0 76.7 12.1 4,43 26. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1.16 25. JUSTICE 0.8 0.0 0.0 0.0 76.7 12.1 4,43 26. JUSTICE 0.8 0.0 0.0 0.0 76.7 12.1 4,43 26. JUSTICE 0.8 0.0 0.0 0.0 76.7 12.1 4,43 26. JUSTICE 0.0 0.0 0.0 0.0 76.7 12.1 4,43 26. JUSTICE 0.0 0.0 0.0 0.0 76.7 12.1 4,43 27. REGIONAL ECONOMIC EXPANSION 1.0 0.0 0.0 0.0 76.7 12.1 4,43 28. JUSTICE 0.0 0.0 0.0 0.0 76.7 12.1 4,43 29. JUSTICE 0.0 0.0 0.0 0.0 0.0 76.7 12.1 4,43 29. JUSTICE 0.0 0.0 0.0 0.0 0.0 76.7 12.1 4,43 20. JUSTICE 0.0 0.0 0.0 0.0 0.0 0.0 76.7 12.1 4,43 20. JUSTICE 0.0 0.0 0.0 0.0 0.0 0.0 76.7 12.1 4,43 20. JUSTICE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 76.7 12.1 4,43 20. JUSTICE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 76.7 12.1 4,43 20. JUSTICE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 76.7 12.1 4,43 20. JUSTICE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 76.7 12.1 4,43 21. ENERGY, MINES AND CEANS 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		VOICE	DATA	TOTAL			(\$ 000)
3. NATIONAL DEFENCE		7.4	4.9	12.3	12.3	37.7	23,755
4. TRANSPORT CANADA 5.6 0.5 6.1 35.7 15.7 20,84 5. SUPPLY AND SERVICES 3.2 0.9 4.1 39.8 37.1 7,63 6. ENVIRONMENT 3.4 0.0 3.4 43.2 15.6 14,81 7. HEALTH AND WELFARE 2.9 0.2 3.1 46.3 31.3 5,34 8. ROYAL CANADIAN MOUNTED POLICE 3.0 0.0 3.0 49.3 7.4 51,48 9. POST OFFICE 2.1 0.6 2.7 52.0 28.0 5,29 10. EXTERNAL AFFAIRS 1.5 1.0 2.5 54.5 11.1 18,76 11. PUBLIC WORKS 2.1 0.3 2.4 56.9 41.8 3,32 12. INDUSTRY, TRADE AND COMMERCE 1.9 0.5 2.4 59.3 45.3 3,08 13. NATIONAL REVENUE (CUSTOMS AND EXCISE) 1.7 0.6 2.2 2.3 63.9 35.0 3,64 15. STATISTICS CANADA 1.8 0.1 1.9 65.8 44.5 2.24 16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0		7.1	2.1	9.2	21.5	55.3	9,145
5. SUPPLY AND SERVICES 3,2 0,9 4.1 39.8 37.1 7,63 6. ENVIRONMENT 3,4 0.0 3,4 43.2 15,6 14,81 7. HEALTH AND WELFARE 2,9 0.2 3,1 46,3 31,3 5,34 8. ROYAL CANADIAN MOUNTED POLICE 3,0 0.0 3.0 49,3 7,4 51,48 9. POST OFFICE 2,1 0.6 2,7 52.0 28.0 5,29 10. EXTERNAL AFFAIRS 1,5 1.0 2,5 54,5 11,1 18,78 11. PUBLIC WORKS 2,1 0,3 2,4 56,9 41,8 3,32 12. INDUSTRY, TRADE AND COMMERCE 1,9 0,5 2,4 56,9 41,8 3,32 13. NATIONAL REVENUE (CUSTOMS AND EXCISE) 1,7 0,6 2,3 61,6 41,9 3,08 14. AGRICULTURE 2,1 0,2 2,3 63,9 35,0 3,64 15. STATISTICS CANADA 1,8 0,1 1,9 65,8 44,5		8.1	0.0	8.1	29.6	5.4	130,806
6. ENVIRONMENT 7. HEALTH AND WELFARE 2.9 0.2 3.1 46.3 31.3 5.34 8. ROYAL CANADIAN MOUNTED POLICE 3.0 0.0 3.0 49.3 7.4 51,48 9. POST OFFICE 2.1 0.6 2.7 52.0 28.0 5.29 10. EXTERNAL AFFAIRS 1.5 1.0 2.5 54.5 11.1 18,78 11. PUBLIC WORKS 2.1 0.3 2.4 56.9 41.8 3,32 12. INDUSTRY, TRADE AND COMMERCE 1.9 0.5 2.4 59.3 45.3 3,08 14. AGRICULTURE 2.1 0.6 2.1 0.2 2.3 63.6 41.9 3,08 14. AGRICULTURE 2.1 0.2 2.3 63.9 35.0 3.64 15. STATISTICS CANADA 1.8 0.1 1.9 65.8 44.5 2.24 16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0 17. CORRECTIONAL SERVICES 1.6 0.0 18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 1.6 9. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 1.6 9. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 1.6 9. SECRETARY OF STATE 1.3 0.1 1.4 70.7 1.6 9. SECRETARY OF STATE 1.3 0.1 1.4 70.7 1.6 9. SECRETARY OF STATE 1.3 0.1 1.4 70.7 1.5 1.6 0.0 1.7 1.7 1.7 1.8 1.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9		5.6	0.5	6.1	35.7	15.7	20,842
7. HEALTH AND WELFARE 2.9 0.2 3.1 46.3 31.3 5,34 8. ROYAL CANADIAN MOUNTED POLICE 3.0 0.0 3.0 49.3 7.4 51,48 9. POST OFFICE 2.1 0.6 2.7 52.0 28.0 5,29 10. EXTERNAL AFFAIRS 1.5 1.0 2.5 54.5 11.1 18,78 11. PUBLIC WORKS 2.1 0.3 2.4 56.9 41.8 3,32 12. INDUSTRY, TRADE AND COMMERCE 1.9 0.5 2.4 59.3 45.3 3,08 13. NATIONAL REVENUE (CUSTOMS AND EXCISE) 1.7 0.6 2.3 61.6 41.9 3,08 14. AGRICULTURE 2.1 0.2 2.3 63.9 35.0 3.64 15. STATISTICS CANADA 1.8 0.1 1.9 65.8 44.5 2.2 16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0 1.9 67.7 22.0 4,71 17. CORRECTIONAL SERVICES 1.6 0.0 1.6 69.3		3.2	0.9	4.1	39.8	37.1	7,634
8. ROYAL CANADIAN MOUNTED POLICE 3.0 0.0 3.0 49.3 7.4 51,48 9. POST OFFICE 2.1 0.6 2.7 52.0 28.0 5,29 10. EXTERNAL AFFAIRS 1.5 1.0 2.5 54.5 11.1 18,78 11. PUBLIC WORKS 2.1 0.3 2.4 56.9 41.8 3,32 12. INDUSTRY, TRADE AND COMMERCE 1.9 0.5 2.4 59.3 45.3 3,08 13. NATIONAL REVENUE (CUSTOMS AND EXCISE) 1.7 0.6 2.3 61.6 41.9 3,08 14. AGRICULTURE 2.1 0.2 2.3 63.9 35.0 3,64 15. STATISTICS CANADA 1.8 0.1 1.9 65.8 44.5 2.24 16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0 1.9 67.7 22.0 4,71 17. CORRECTIONAL SERVICES 1.6 0.0 1.6 69.3 22.7 4.71 18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7<		3.4	0.0	3.4	43.2	15.6	14,816
9. POST OFFICE 2.1 0.6 2.7 52.0 28.0 5,29 10. EXTERNAL AFFAIRS 1.5 1.0 2.5 54.5 11.1 18,78 11. PUBLIC WORKS 2.1 0.3 2.4 56.9 41.8 3,32 12. INDUSTRY, TRADE AND COMMERCE 1.9 0.5 2.4 59.3 45.3 3,08 13. NATIONAL REVENUE (CUSTOMS AND EXCISE) 1.7 0.6 2.3 61.6 41.9 3,08 14. AGRICULTURE 2.1 0.2 2.3 63.9 35.0 3.64 15. STATISTICS CANADA 1.8 0.1 1.9 65.8 44.5 2.24 16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0 1.9 67.7 22.0 4,71 17. CORRECTIONAL SERVICES 1.6 0.0 1.6 69.3 22.7 4,17 18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 70.7 41.0 1,83 20. COMMUNICATIONS 1.0 0.3 1.3 73.4 9.4 7,13 21. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2,00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIES AND OCEANS 1.0 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97							5,349
10. EXTERNAL AFFAIRS 1.5 1.0 2.5 54.5 11.1 18,78 11. PUBLIC WORKS 2.1 0.3 2.4 56.9 41.8 3,32 12. INDUSTRY, TRADE AND COMMERCE 1.9 0.5 2.4 59.3 45.3 3,08 13. NATIONAL REVENUE (CUSTOMS AND EXCISE) 1.7 0.6 2.3 61.6 41.9 3,08 14. AGRICULTURE 2.1 0.2 2.3 63.9 35.0 3.64 15. STATISTICS CANADA 16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0 17. CORRECTIONAL SERVICES 1.6 0.0 1.6 69.3 22.7 4,17 18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 70.7 46.7 1,69 12. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2,00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIËS AND OCEANS 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			0.0	3.0			51,488
11. PUBLIC WORKS		2.1	0.6		52.0	28.0	5,294
12. INDUSTRY, TRADE AND COMMERCE		1.5	1.0	2.5	54.5	11.1	18,786
13. NATIONAL REVENUE (CUSTOMS AND EXCISE) 1.7 0.6. 2.3 61.6 41.9 3,08 14. AGRICULTURE 2.1 0.2 2.3 63.9 35.0 3.64 15. STATISTICS CANADA 1.8 0.1 1.9 65.8 44.5 2.24 16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0 1.9 67.7 22.0 4.71 17. CORRECTIONAL SERVICES 1.6 0.0 1.6 69.3 22.7 4.17 18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 46.7 1.69 19. SECRETARY OF STATE 1.3 0.1 1.4 72.1 41.0 1.83 20. COMMUNICATIONS 1.0 0.3 1.3 73.4 9.4 7,13 21. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2.00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1.82 23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4.43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97		2.1	0.3	2.4	56.9	41.8	3,321
14. AGRICULTURE 2.1 0.2 2.3 63.9 35.0 3.64 15. STATISTICS CANADA 1.8 0.1 1.9 65.8 44.5 2.24 16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0 1.9 67.7 22.0 4,71 17. CORRECTIONAL SERVICES 1.6 0.0 1.6 69.3 22.7 4,17 18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 72.1 41.0 1,83 20. COMMUNICATIONS 1.0 0.3 1.3 73.4 9.4 7,13 21. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2,00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4,43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 <t< td=""><td></td><td>1.9</td><td>0.5</td><td>2.4</td><td>59.3</td><td>45.3</td><td>3,0B5</td></t<>		1.9	0.5	2.4	59.3	45.3	3,0B5
15. STATISTICS CANADA 1.8 0.1 1.9 65.8 44.5 2.24 16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0 1.9 67.7 22.0 4,71 17. CORRECTIONAL SERVICES 1.6 0.0 1.6 69.3 22.7 4,17 18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 72.1 41.0 1,83 20. COMMUNICATIONS 1.0 0.3 1.3 73.4 9.4 7,13 21. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2,00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4,43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97		1.7	0.6.	2.3	61.6	41.9	3,080
16. INDIAN AND NORTHERN AFFAIRS 1.9 0.0 1.9 67.7 22.0 4,71 17. CORRECTIONAL SERVICES 1.6 0.0 1.6 69.3 22.7 4,17 18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 72.1 41.0 1,83 20. COMMUNICATIONS 1.0 0.3 1.3 73.4 9.4 7,13 21. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2,00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4,43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97		2.1	0,2	2.3	63.9	35.0	3,645
17. CORRECTIONAL SERVICES 1.6 0.0 1.6 69.3 22.7 4,17 18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 72.1 41.0 1,83 20. COMMUNICATIONS 1.0 0.3 1.3 73.4 9.4 7,13 21. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2,00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4,43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97		1.8	0.1	1.9	65.8	44.5	2,240
18. PUBLIC SERVICE COMMISSION 1.3 0.1 1.4 70.7 46.7 1,69 19. SECRETARY OF STATE 1.3 0.1 1.4 72.1 41.0 1,83 20. COMMUNICATIONS 1.0 0.3 1.3 73.4 9.4 7,13 21. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2,00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4,43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97		1.9	0.0	1.9	67.7		`4,717
19. SECRETARY OF STATE 1.3 0.1 1.4 72.1 41.0 1,83 20. COMMUNICATIONS 1.0 0.3 1.3 73.4 9.4 7,13 21. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2,00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4,43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97	17. CORRECTIONAL SERVICES	1.6	0.0	1.6	69.3	22.7	4,176
20. COMMUNICATIONS 1.0 0.3 1.3 73.4 9.4 7,13 21. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2,00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4,43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97		1.3	0.1	1.4	70.7.	46.7	1,691
21. ENERGY, MINES AND RESOURCES 1.1 0.1 1.2 74.6 33.8 2,00 22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4,43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97		1.3	0.1		72.1		1,838
22. REGIONAL ECONOMIC EXPANSION 1.0 0.1 1.1 75.7 38.9 1,82 23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4,43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97		1.0	0.3	. 1.3			7,130
23. FISHERIES AND OCEANS 1.0 0.0 1.0 76.7 12.1 4,43 24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97		1.7	0.1	1.2			2,006
24. CONSUMER AND CORPORATE AFFAIRS 0.9 0.0 0.9 77.6 43.4 1,16 25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97	<u> </u>						1,825
25. JUSTICE 0.8 0.0 0.8 78.4 45.1 97							4,432
							1,167
26. NATIONAL FILM BOARD 0.6 0.2 0.8 79.2 45.7 94				0.8			974
							944
							1,276
							1,260
			0.3	0.6			626
		0.6	0.0				611
							6,617
32. OTHER DEPTS - NOT REPORTING 14.0 100.0 71.0 4,96	32. OTHER DEPTS - NOT REPORTING			14.0	100.0	71.0	4,967

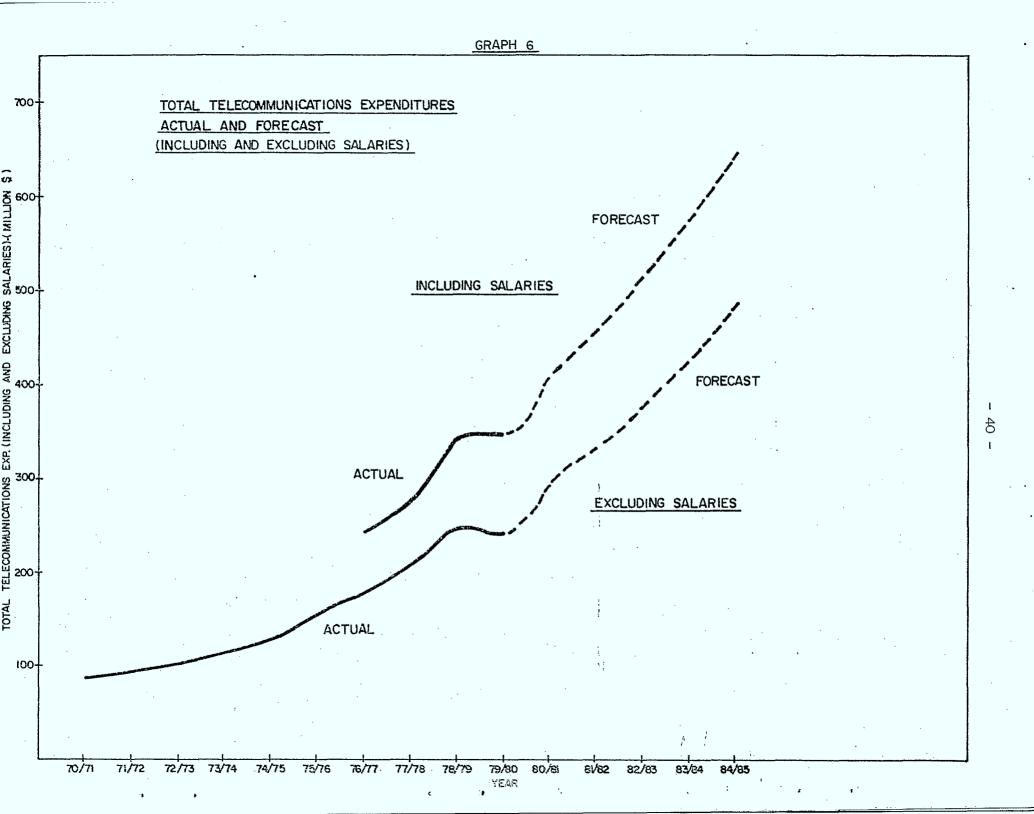
GRAPHS

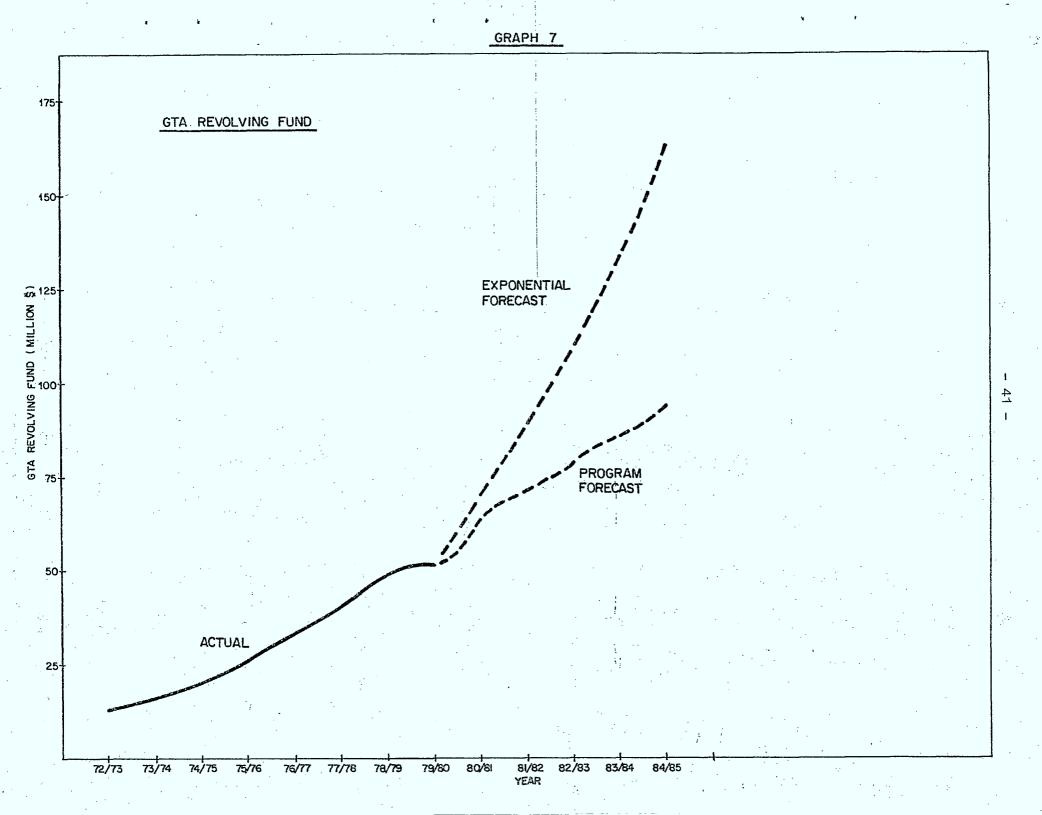


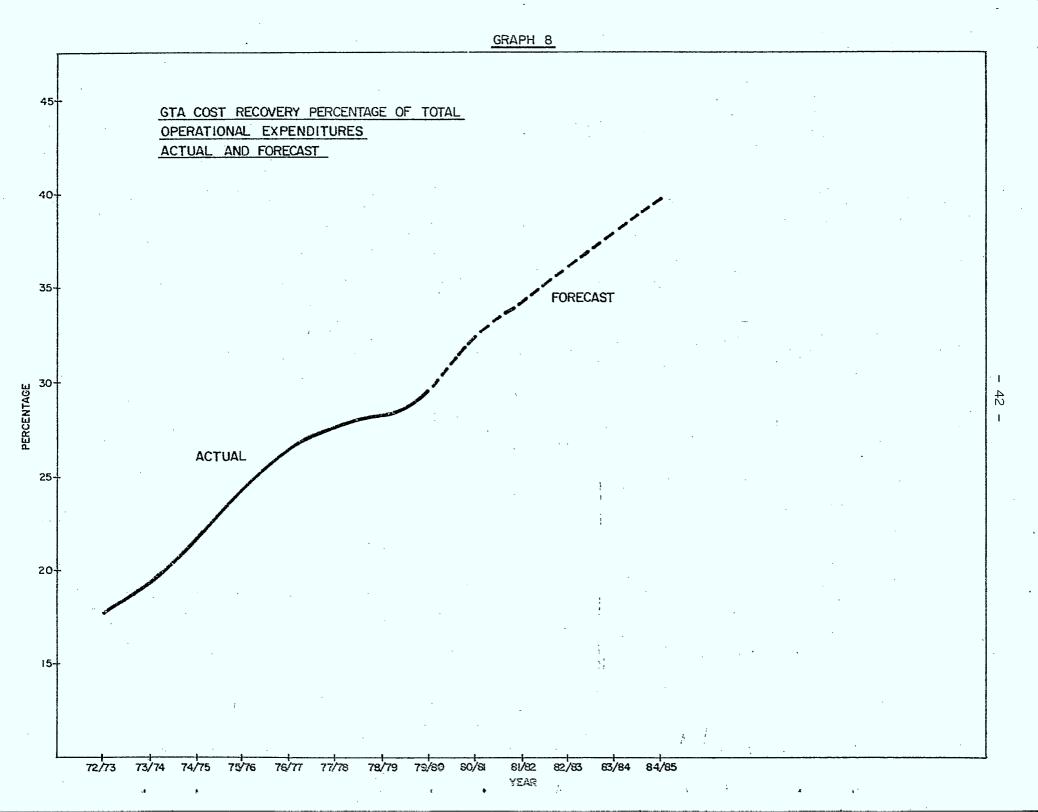












QUESTIONNAIRE

Carneitu	Classification	
Security	Clussification	Market Control of the

1979/80 ANNUAL TELECOMMUNICATIONS REPORT FORM 1-TELECOMMUNICATION EXPENDITURES

DEPARTMENT/AGENCY		·		
TELECOMMUNICATIONS	COORDINATOR		,	
	TELEDUONE	NUMBED		

ITEMS		1979-1980(PY)
		(2000)
(A)		(B)
TELEPHONE	0220	
TELEGRAPH, CABLE 8 WIRE	LESS 0221	
OTHER COMM. SERVICES	0222	
REPAIR-TELEGRAPH & TEL PHONE LINES	E - 0621	r
REPAIR - COMMUNICATION & RELATED EQUIPMENT	0655	. 1
PARTS-COMMUNICATION & RELATED EQUIPMENT	0780	
ACQUISITION-COMMUNICATION RELATED EQUIPMENT	ON 0906	
PROFESSIONAL & SPECIAL SERVICES - TELECOM.	04	; + · · ·
RENTALS-TELECOM. EQUIPMENT	05	
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TOTALS		
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Security	Classification	
JCCG:	Cidaganication	

1979-80 ANNUAL TELECOMMUNICATIONS REPORT

FORM 2 - DETAILS OF TELECOMMUNICATION EXPENDITURES FOR 1979/80 (PY)

DEPARTMENT/AGENCY _____

	APPLICATION		SOURCE OF BILLING							
	OF EXPENDITURES	* DOC /GTA (\$000) (A)	TEL. CO. (8000) (B)	CN/CP (\$000) (C)	TELEGLOBE (\$000) (D)	OTHER (8000) (E)	TOTAL (\$000) (F)			
l.	VOICE COMMUNICATIONS (a) Inter-City Services (Public Network)									
	(b) Inter-City Services (Government Network)			><						
	(c) Inter-City Services (Other Network)									
	(d) Local Services (NCR)	-		,			:			
	(e) Local Services (Outside NCR)									
2.	DATA COMMUNICATIONS (a) Inter-City Services (Public Network)				1					
	(b) Inter-City Services (Government Networks)									
	(c) Inter-City Services (Other Networks)				!					
	(d) Local Services (NCR)									
	(e) Local Services (Outside NCR)				÷	,				
3.	TOTAL EXPENDITURES	·								

1979-80 ANNUAL TELECOMMUNICATIONS REPORT

FORM - 3 - NUMBER OF TELECOMMUNICATION PERSONNEL & RELATED COSTS FOR 1979-80(PY)

DEPARTMENT / AGENCY:		NCR (A)	CANADA LESS NCR (B)	
I. TOTAL NUMBER OF PERSON/YRS (INCLUDING TELEC	OM PERSONNEL)			
2. NUMBER OF TELECOM PERSONNEL IN FOLLOWING FU AREAS (LIST BY CLASSIFICATION)	NCTIONAL		\ <u>'</u>	
FUNCTIONAL AREAS	CLASS			
a) Management & Control			,	
	,			
b) Administration Support				
(Include Training Staff)				
	186	, ,		
c) Equipment Operating				
				:
d) Engineering / Maintenance				
(Include Installation Engineers & Field		-	, <u>;</u>	٠.
Maintenance Personnel)		٠.		
e) Engineering Support				
(Include HQ staff associated with the				
development of procedures, standards,	·			
engineering orders and policies)				
3. TELECOM UNIFORMED PERSONNEL			**************************************	Section and the section of the secti
4. TELECOM CONTRACTED PERSONNEL & CONSULTA	NTS			
5. TOTAL OF 2,3, & 4				
6. COST OF SALARIES & WAGES FOR TELECOM PERSO	NNEL (8000)			
7. FUNDS BUDGETED FOR TRAINING TELECOM PERSON	NEL (8000)			
8. COST OF CONTRACTED PERSONNEL & CONSULTANT	rs (3000)			
9. TOTAL OF 6,7 & 8 (\$000)				
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