FEDERAL SCIENCE EXPENDITURES

AND PERSONNEL

1982/83

MARCH 1982



Ministry of State

Science and Technology Canada Federal science expenditures and personnel 1982/1983

(Report — Ministry of State for Science and Technology ISSN 0701-8142)

Text in English

141 57:22

- I. Federal aid to research-Canada-Statistics
- 2. Research—Canada—Finance—Statistics. 1. Canada Ministry of State for Science and Technology

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Minister of Supply and Services Canada 1982
 Cat. No. ST 21-4/1983E
 ISBN 0-662-11932-0

PREFACE

Each Spring the government tables its Main Estimates in the House of Commons for the new fiscal year commencing April 1st. The Main Estimates give an overview of the broad spending programs of departments and agencies. Scientific expenditures are provided for, but may not be separately displayed in published departmental estimates. This statistical publication fills that gap.

To assist readers to obtain an overall appreciation of federal scientific expenditures, this report presents science statistics assembled during the complicated process which recently culminated in the tabling of Main Estimates 1982/1983. The government's support of science provided through other means, e.g. through tax incentives, is not included in these statistics.

Many people from many departments and agencies contributed in the preparation of this report, and in particular, the Financial Officers of departments, on whom fell the onus for providing details of both the historical and the planned science expenditures which this report lists. The Treasury Board Secretariat made it possible for these statistics to be obtained in conjunction with the budgetary machinery, by incorporating as addenda to the Main Estimates submissions the collection of federal science statistics conducted jointly by Statistics Canada and MOSST.

The staff of the Science Statistics Centre, a Statistics Canada satellite office located with MOSST, is owed special thanks. The Centre worked closely with MOSST and with departmental contacts to ensure that the resulting data base would be accurate, consistent and timely. The important contribution of the Interdepartmental Committee on Scientific Expenditures to the process of improving definitions and the accuracy of reporting is also acknowledged.

Finally, thanks are due to the Research and Information Services Division of MOSST, whose programming work made possible both the attractive appearance and the convenient reproduction of the tables presented in this statistical report.

CONTENTS

TABLES OF SCIENTIFIC EXPENDITURES AND RESOURCES (Table numbers in parentheses)

	Fiel	ds of Scie	nce
SUBJECT SUBDIVISIONS	N&H	<u>N</u>	<u> </u>
S&T Totals			
summary:			
- all departments and agencies	12 (1)	-	-
- performing sector	14 (2)	46 (21)	78 (40)
- type of science activity	15 (3)	47 (22)	79 (41)
by department/agency:			
- intramural/extramural	18 (5)	50 (24)	82 (43)
- R&D and RSA	16 (4)	48 (23)	80 (42)
- intramural	20 (6)	52 (25)	84 (44)
- industry	22 (7)	54 (26)	86 (45)
- university	23 (8)	55 (27)	87 (46)
- non profit institutions	24 (9)	56 (28)	88 (47)
- provincial & municipal governments	25 (10)	57 (29)	89 (48)
- foreign	26 (11)	58 (30)	90 (49)
- other	27 (12)	59 (31)	91 (50)
R&D Totals			
summary:			
- performing sector	28 (13)	60 (32)	92 (51)
by department/agency:			
- intramural/extramural	30 (15)	62 (34)	94 (53)

SUBJECT SUBDIVISIONS	N&H	elds of Science N H
- industry: grants and contracts	32 (16)	64 (35) 96 (54)
 university and non-profit institutions: grants and contracts 	34 (17)	66 (36) 98 (55)
RSA Totals		
summary:		
- by performing sector	29 (14)	61 (33) 93 (52)
by department/agency:		
- intramural/extramural	36 (18)	68 (37) 100 (56)
S&T personnel		
summary:		
- type of science activity	44 (20)	76 (39) 108 (58)
by department/agency:		
- by personnel category	38 (19)	70 (38) 102 (57)
Expenditures by Cabinet Committee		
summary:		
- R&D and RSA	111 (59)	
- performing sector	114 (61)	
by department/agency:		
- all S&T	112 (60)	
- R&D and RSA	118 (62)	120 (63) 126 (65)
S&T personnel:		
- by science activity	-	122 (64) 128 (66)
APPENDIX		

NOTES FOR READERS

The data in this publication are based on program budgetary expenditures presented to Parliament for approval in the 1982/83 Main Estimates. The tables display both the expenditures and the personnel resources applied to activities in the natural and human sciences. This report is a statistical companion publication to MOSST's more descriptive report Federal Science Activities 1982/83. As the data are designed primarily for use by those with some knowledge of the government's scientific activities, a minimum of explanatory material accompanies the statistics.

This report is organized into four main sections and an appendix. The first section presents combined data on the natural and human sciences, the second data on the natural sciences alone and the third data on the human sciences alone. The fourth section presents expenditure data corresponding with the cabinet policy and expenditure committees within which the various departments and agencies are grouped. The appendix contains definitions of terms used in the categorization of science expenditures, and some notes on limitations of the data surveys. Readers are urged to read this appendix before drawing their own conclusions from the data.

The data used for this publication are derived from the 1982/83 Main Estimates survey of expenditures and personnel resources in the natural and human sciences, which covers the fiscal years 1980/81, 1981/82 and 1982/83. The data, therefore, include the actual expenditures recorded in the base year 1980/81, those forecast for the current year 1981/82 and those for which funding authority is requested in estimates for the new fiscal year, 1982/83.

Personnel categories are measured in full-time equivalents, that is, the number of person-years cumulatively devoted to scientific activities by the employees engaged in these activities, whether on a continuing, term, casual or seasonal basis. The 1980/81 data are the actual totals of the person years used in that period, while the 1981/82 data are calculated from the actual person-years up to September 30, 1981, combined with the totals forecast and authorized until March 31, 1981. The 1982/83 data reflect the authorized person year totals indicated in the Main Estimates.

Users of this report may wish to note that "non-program" costs are not included in the expenditure data in this report. (See the appendix for an explanation of this exclusion). Data which do include "non-program" costs are published in the Statistics Canada publication, The Annual Review of Science Statistics (Cat. No. 13-212), and in issues of the Service Bulletin (Cat. No. 13-003).

Additional sub-divisions or rearrangements of the data totals presented in this report are often available on request to the Program Review and Assessment Division of MOSST.

Data for federal departments, agencies and programs appear in the tables in the order in which they appear in the Main Estimates for 1982/83. The various federal agencies are listed under the portfolios of the Ministers through whom they report to Parliament -- for example, Statistics Canada appears under the Supply and Services portfolio. Program expenditures are listed in the tables and summed to show departmental totals, but non-departmental agencies are not included in departmental totals. For example, the amount shown opposite the Department of Agriculture (AGR) is the sum of the corresponding amounts opposite the four programs commencing with AGR- (AGR-ADM, AGR-DEV, etc), but expenditures under the Canadian Dairy Commission (CDC) and the Canadian Livestock Feed Board (CLFB) are not included in the departmental (AGR) total.

The departmental and program abbreviations used are explained in the following pages.

AGRICULTURE	
AGR	Department
AGR-ADM	Administration
AGR-DEV	Agri-Food Development Program
AGR-RI	Agri-Food Regulation and Inspection
AGR-CGC	Canadian Grain Commission
CDC	
	Canadian Dairy Commission
CLFB	Canadian Livestock Feed Board
COMMUNICATIONS	
СОММ	Department
COMM-COMM	Communications
COMM-AC	Arts and Culture
CBC	Canadian Broadcasting Corporation
CRTC	Canadian Radio-Television and
01110	Telecommunications Commission
NFB	
	National Film Board
NLIB	National Library
NMUS	National Museums of Canada
PA	Public Archives
SSHRC	Social Sciences and Humanities
	Research Council
CONSUMER AND CORPORATE	APPATOC
CCA	
	Department
CCA-ADM	Administration
CCA-CON	Consumer Affairs
CCA-COR	Bureau of Corporate Affairs (incl.
	Intellectual Property)
CCA-CICP	Combines Investigation and
	Competition Policy
ECONOMIC DEVELOPMENT	
ED	Ministry of State
22	fiffitbely of beate
EMPLOYMENT & IMMIGRATIO	ON
EI	Department
EI-ADM	Administration
CEIC	Canada Employment and Immigration
	Commission
ENERGY MINES AND RESOU	
EMR	Department
EMR-ENER	Energy
EMR-MES	Minerals and Earth Sciences
AECB	Atomic Energy Control Board
AECL	Atomic Energy of Canada Ltd.
NEB	National Energy Board
ENVIRONMENT	
ENV	Department
ENV-AD	Administration
ENV-ES	Environmental Services
ENV-EPS	Environmental Protection Services
ENV-AES	Atmospheric Environment Services
ENV-ECS	Environmental Conservation Service:
ENV-FOR	Canadian Forestry Service
ENV-PC	Parks Canada

EXTERNAL AFFAIRS	
EA	Department
EA-CIA	Canadian Interests Abroad
CIDA	Candian International Development Agency
I DRC	International Development Research Centre
IJC	International Joint Commission
FINANCE	
FIN	Department
FIN-FEP	Financial and Economic Policies
FISHERIES AND OCEANS	
F&O	Department
F&O-FM	Fisheries and Marine Service
INDIAN AFFAIRS & NORTHE	
IAND	Department
IAND-IIA	Indian and Inuit Affairs Northern Affairs
IAND-NA	Northern Allairs
INDUSTRY TRADE AND COMM	
ITC	Department
ITC-TI	Trade-Industrial
ITC-TOUR	Tourism
ITC-GO	Grains and Oilseeds
JUSTICE	
JUST	Department
JUST-ADM	Administration
JUST-CUIO	Canadian Unity Information Office
CHRC	Canadian Human Rights Commission
LRC	Law Reform Commission
LABOUR	
LAB	Department
NATIONAL DEFENCE	
NDEF	Department
NDEF-SER	Defence Services
NATIONAL HEALTH AND WE	
NHW	Department
NHW-ADM	Administration
NHW-HSS	Health and Social Services
NHW-MS	Medical Services
NHW-HP	Health Protection
NHW-IS	Income Security Medical Research Council
MRC	HEUTCAL VEBEALCH COUNCIL

NATIONAL REVENUE NREV Department NREV-TAX Taxation PRIVY COUNCIL PC Privy Council COL Commissioner of Official Languages ECC Economic Council of Canada PUBLIC WORKS PW Department PU-PTS Professional and Technical Services Canada Mortgage and Housing Corporation CMHC NCC National Capital Commission REGIONAL ECONOMIC EXPANSION REE Department SCIENCE AND TECHNOLOGY ST Ministry of State NRC National Research Council NRC-SIR Scientific and Industrial Research Scientific and Technical Information NRC-STI Natural Sciences and Engineering NSERC Research Council Science Council of Canada SC SECRETARY OF STATE SECS Department Official Languages SECS-OL SECS-ES Education Support Translation SECS-TRA SECS-CIT Citizenship PSC Public Service Commission SOLICITOR GENERAL SGEN Department SGEN-ADM Administration RCMP Royal Canadian Mounted Police SUPPLY AND SERVICES Department SS SS-SUPP Supply STCAN Department TRANSPORT TPT Department TPT-ADM Administration TPT-MAR Marine TPT-AIR Air TPT-SUR Surface Canadian Transport Commission CTC TREASURY BOARD TB Department TB-ADM Administration



Natural and Human Sciences

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

DEPARTMENT		980-81		AN THE AND 7 IN THE AND AND THE THE PLU AND THE	1981-82	er 1999 Mith mer mer sins mer film with falls with	an two max max has two two one and that the	1982-83	
OR			TOTAL	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL
AGR-ADM AGR-DEV AGR-RI AGR-CGC CDC CLFB	151, 119 4, 200 139, 446 4, 590 2, 883 598	1,250 1,250 89	4,200	166, 784 4, 783 153, 383 5, 103 3, 515 2, 200	1,738	168,522 4,783 155,121 5,103 3,515 2,200 92	194, 281 5, 084 177, 026 7, 981 4, 190 2, 500	1,788	178,814 7,981 4,190
COMMUNICATION COMM-COMM COMM-AC CBC CRTC NFB NLIB NMUS PA SSHRC	60, 571 60, 571 634 18, 811	557 3,636 602 17,245 35,204	65,979 65,322 657 3,636 602 634 17,245 54,015 10,817 42,378	76,139	5, 161 983 4, 042 679 21, 609 37, 643	983 4,042 679 603 21,609 58,655	61,430 697		66,726
CCA-ADM CCA-CON CCA-COR CCA-CICP	14,545 2,170 12,375		17,424 3,581 13,163 680	14,972 2,435 12,537		19,118 3,032 2,435 12,537 1,114	2,850	3,855	23,175 3,855 2,850 14,881 1,589
			1,677		2,038	2,038		2,493	2,493
EMPLOYMENT & EI EI-ADM CEIC		9,529 9,529 7,758	9,529 9,529 7,758	488, 489 189 189 489 189 189 489 189	9,6 <mark>02</mark> 9,602 9,255	9,602 9,602 9,255	600 mm ann	10, 180 10, 180 8, 126	10,180 10,180 8,126
EMR-ENER EMR-MES AECB AECL NEB	170,637	8,422 2,100 6,322		219,242 67,992 151,250 1,099 114,182 495	10,457 2,350 8,107 1,681	229,699 70,342 159,357 1,099 114,182 2,176	268,835 78,902 189,933 2,071 132,384 501	11.645 2,690 8,955 1,689	280,480 81,592 198,888 2,071 132,384 2,190
ENV-ES ENV-EPS ENV-AES ENV-ECS ENV-FOR ENV-PC	1,579 228,506 8,760 115,833 53,633 50,280 1,566	15, 499 261 4, 192 4, 192 11, 046	247,150 1,840 232,698 8,760 115,833 57,825 50,280 12,612	1,621	4,542	38,293		19, 419 438 5, 471 5, 471 13, 510	10,000 164,750 72,442
IJC	32,234	5,929 5,929 4,257 19,688	5,929 5,929 36,491 39,798 2,328	35, 739 24, 439 2, 77 I	6,650 6,650 4,636 21,600	6,650 6,650 40,375 46,039 2,771	39,694 29,896 2,988	7,220 7,220 5,280 26,730	7,220 7,220 44,974 56,626 2,988
FINANCE FIN FIN-FEP		8,514	8,514			10,077 10,077	600 900 800	12,613 12,613	12,613 12,613
FISHERIES AND F&O F&O-FM	0 OCEANS 112,903 112,903	3,500 3,500	116,403 116,403	126,541 126,541	3,430 3,430	129,971 129,971	142,001 142,001	3,792 3,792	145,793 145,79 3
INDIAN AFFAIR IAND IAND-IIA	3,020	1,937	4,957	3,368	3,054	6,422 380	3,673	3, 225 395	6,898 395
IAND-NA INDUSTRY TRAI	3,020 DE AND COMMI	1,937 ERCE	4,957	3,368	2,674	6,042	3,673	2,830	6,503
ITC ITC-TI ITC-TOUR ITC-GO	95,928 94,700 1,228	1,562 1,217 345	97,490 95,917 345 1,228	140,611 139,473 1,138	2,935 2,556 379	143,546 142,029 379 1,138	170,575 169,515 1,060	2,739 2,360 379	173,314 171,875 379 1,060

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT	eyer days and new data MIN 2010 Mine days and	1980-81			1981-82	400 000 000 data sant dala sera 200 data dala 1		1982-83	
OR AGENCY	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL
JUSTICE JUST JUST-ADM JUST-CUIO CHRC LARC		4,281 2,729 1,552 304 1,466	4,281 2,729 1,552 304 1,466		6,012 3,012 2,100 288 2,349	6,012 3,912 2,100 288 2,349		8,114 6,014 2,100 325 2,938	8,114 6,014 2,100 325 2,938
LABOUR LAB		3,813	3,813	100 and 100	4,191	4,191		4,724	4,724
NATIONAL DEFE NDEF NDEF-SER NATIONAL HEAL	100,534 100,534	2,037 2,037 FARE	102, 571 102, 571	109,693 109,693	2,333 2, 3 33	112,026 112,026	136,995 136,995	2,575 2,575	1 39 ,570 139,570
	48,747 8,696 2,086 37,965 82,031	15,065 5,974 8,560 531	63,812 5,974 17,256 2,086 37,965 531 82,031	53,929 8,731 3,918 41,280 100,167	18,635 8,061 10,012 612	72,614 8,061 18,743 3,918 41,280 612 100,167	60, 184 7, 755 2, 167 50, 262 112, 884	20,727 8,999 10,811 917	80,911 8,999 18,566 2,167 50,262 917 112,884
NREV NREV-TAX PRIVY COUNCIL	which series were proposition of the series	4, 486 4, 486	4, 486 4, 486	- 400 - 500 - 400	10,718 10,718	10,718 10,718	477 ANN 978	6,986 6,986	6,986 6,986
PC COL ECC	1070 1000 1070 1070 1000 1070 1000 1000	549 975 8,030	549 975 8,030	400 400 400	589 1,172 7,392	589 1,172 7,392	ana ana ana	89 3,097 7,814	89 3,097 7,814
PUBLIC WORKS PW PW-PTS CMHC NCC	8,310 8,310 3,126 160	9, 454 92	8,310 8,310 12,580 252	7) 657 7, 657 4, 784 250	11,031 337	7,657 7,657 15,815 587	8, 138 8, 138 5, 215 425	11,671 209	8,138 8,138 16,886 634
REGIONAL ECON REE SCIENCE AND T	771	L 712	2,483	957	2,330	3,287	5,588	2,697	8,285
ST NRC-SIR NRC-SIR NRC-STI NSERC SC	1,358 226,102 211,444 14,658 162,871	7,004 2,890	8,362 226,102 211,444 14,658 162,871 2,890	1,553 297,374 278,784 18,590 201,803	8,035 3,542	9,588 297,374 278,784 18,590 201,803 3,542	1,895 360,692 339,027 21,665 227,081	8,917 4,047	10,812 360,692 339,027 21,665 227,081 4,047
SECRETARY OF SECS SECS-OL SECS-ES SECS-TRA SECS-CIT PSC		9,073 853 139 5,121 2,960	9,073 853 139 5,121 2,960		10,017 816 415 5,681 3,105	10,017 816 415 5,681 3,105		10,941 1,031 895 5,335 3,680	10,941 1,031 895 5,335 3,680
	71	4, 175 4, 175	4, 1 75 4, 1 75 71	295	5,669 5,669 	5, 669 5, 669 295		5,169 5,169	5,169 5,169 300
SUPPLY AND SE SS SS-SUPP STCAN TRANSPORT	14, 391 14, 391 14, 391	562 562 144, 134	14, 953 14, 953 144, 134	14,561 14,561	556 556 229,965	15,117 15,117 229,965	14/574 14/574 	554 554 187,219	15,128 15,128 187,219
TPT TPT-ADM TPT-MAR TPT-AIR TPT-SUR CTC	16, 117 5, 153 8, 513 2, 407 44	1,034 933 101 2,758	17, 151 6, 086 8, 513 2, 407 145 2, 758	20,063 8,233 8,927 2,843 60	1,300 1,180 120 2,715	21,363 9,413 8,927 2,843 180 2,715	22,281 9,120 9,911 3,164 86	1,669 1,504 165 3,255	23,950 10,624 9,911 3,164 251 3,255
TREASURY BOAR TB TB-ADM		10,666 10,666	10,666 10,666		12, 927 12, 927	12,927 12,927		15, 444 15, 444	15, 444 15, 444
TOTAL I	,677,607	443,647 2	2,121,254		579,222	2,604,523	2,362,500	578,939	2,941,439

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY PERFORMER, 1980-1983

(\$ THOUSANDS)

PERFORMER	1980-	81	1981-	82	1982-	83
	\$		\$	%	\$	
INTRAMURAL	1,350,983	(63.7)	1,618,404	(62.1)	1,808,661	(61.5)
INDUSTRY	306,099	(14.4)	417,057	(16.0)	482,944	(16.4)
UNIVERSITIES	319,956	C 15.D	390,345	(15.0)	441, 165	(15.0)
NON-PROFIT INSTITUTIONS	22,547	(1.1)	26,9 <mark>84</mark>	(1.0)	31,157	(1.1)
PROVINCIAL & MUNICIPAL	46, 559	(2.2)	62,663	(2.4)	79,973	(2.7)
FOREIGN	57,471	(2.7)	67,493	(2.6)	75,067	(2.6)
OTHER CANADIAN	17,639	(0.8)	21,577	(0.8)	22, 472	(0.8)
TOTAL	2, 121, 254	(100.0)	2,604,523	(100.0)	2,941,439	(100.0)

TRAMURAL EXPENDITURES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES TOTAL ALL COMPONENTS

FISCAL YEAR 1980-81

(\$ THOUSANDS)

	INTRAMEL	CANADIAN INDUSTRY	CANADIAN UNIVERSITY		PROF, MUN. GOVERNMENTS	FORE IGN PERFORMERS		TOTAL
IN-HOUSE R&D R&D CONTRACTS SUPPORTING CONTRACTS R&D GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTRAMURAL R&D CAPITAL - R&D	556,782 1,784 24,694 0 1,243 32,421 88,246	0 102,944 0 135,885 1,639 0 0	0 17,829 255,632 11,126 0 0	0 4,910 9,662 0 0 0	0 640 33.210 0 8 0	0	2 5,958 0 1,027 319 0 2	556,782 138,445 24,694 474,818 19,686 32,421 88,246
SUB TOTAL R&D	705,170	240,468	284, 587	14,572	33,850	49,141	7,304	1,335,092
DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS. STUDIES OPERN'S & POLICY STUDIES TESTING & STANDARDIZATION FEASIBILITY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA	319,275 128,064 28,771 50,924 27,815 2,817 665 41,820 11,470 34,192	15,787 2,445 1,734 3,220 1,576 39,838 420 611 0 Ø	2,410 3,147 312 820 271 27,185 901 0 0	1, 175 4, 257 331 576 277 278 20 1,061 0	S,218 1,604 0 0 5,887 0 5,887 0	60 1,643 702 39 110 86 5,690 0 0	2,819 2,234 438 1,206 148 1 2,287 1,202 0 0	346,744 143,394 32,288 56,288 30,746 43,291 36,267 51,482 11,470 34,192
SUB TOTAL RSA	645,813	65,631	35,369	7,975	12,709	8,330	10,335	786, 162
TOTAL	1,350,983	306,099	710.050		46,559		17.639	2.121.254

FISCAL YEAR 1981-82

(\$ THOUSANDS)

	INTROMEL	CANADIAN INDUSTRY	CANADIAN UNIVERSITY		PROP. MUN. GOPERNMENTS	FOREIGN PERFORMERS	OTHER PERFORMERS	TOTAL
IN-HOUSE R&D R&D CONTRACTS SUPPORTING CONTRACTS R&D GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTRAMURAL R&D CAPITAL - R&D	644,557 1,503 28,650 1,597 38,094 104,044	0 142,981 196,097 2,839 0 0	0 23,392 307,990 15,896 0 0	0 5,646 0 12,262 0 0 0	0 1,704 46,657 0 0 0	0 4,528 0 47,050 5,786 0 0	0 8,108 3,691 265 0 0	644,557 187,862 28,650 613,747 26,383 38,894 104,844
SUB TOTAL R&D	818, 445	341,917	347,278	17,908	48,361	57,364	12,064	1,643,337
DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS, STUDIES OPERN'S & POLICY STUDIES TESTING & STANDARDIZATION FEASIBILITY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA	427,748 148,205 39,683 63,331 30,116 2,944 43,840 13,670 13,670	18, 172 3, 685 1, 877 3, 396 3, 179 43, 488 790 633 0 0	2,761 3,454 277 594 1,594 152 33,387 928 0 0	1, 141 4, 533 1, 200 410 384 311 0 1, 097 0 0	5,471 2,641 17 91 91 6,073 0	50 2,361 742 23 115 157 6,681 0 0	4,024 1,391 483 533 180 62 1,606 1,234 0 0	459,359 166,190 44,199 68,287 35,569 47,205 43,116 53,805 13,670 29,786
SUB TOTAL R5A	799,959	75,140	43,067	9,076	14,302	10,129	9,513	961,186
TOTAL	1,618,404	417,057	398,345	26,984	62,663	67,493	21,577	2,604,523

FISCAL YEAR 1982-83

	INTRAMEL	CANAD IAN INDUSTRY	CANADIAN UNIVERSITY	CANADIAN N-P INST	PROF. MUN. GOVERNMENTS	FOREIGN PERFORMERS	OTHER PERFORMERS	TOTAL
IN-HOUSE R&D R&D CONTRACTS SUPPORTING CONTRACTS R&D GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTRAMURAL R&D CAPITAL - R&D	725,047 1,990 28,582 0 1,746 48,804 161,947	0 171,886 218,530 3,945 0 0	27,097 0 347,266 19,214 0 0	0 7,231 0 14,217 0 0 0	4,062 8 55,946 8 0 0	4,275 0 53,010 6,514 0 0	0 9.732 0 3,339 322 0 8 8	725,047 226,273 28,582 692,308 31,741 48,804 161,947
SUB TOTAL R&D	968, 116	394,361	393, 577	21, 448	60,008	63,799	13,393	1,914,702
DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS, STUDIES OPERN'S & POLICY STUDIES TESTING & STANDARDIZATION FEASIBLILTY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN, EXTRAMURAL RSA CAPITAL - RSA	410,213 171,102 44,228 71,214 33,414 3,247 815 44,984 16,273 45,055	22,634 4,432 2,140 3,978 3,620 50,104 979 696 0 0	2,802 4,136 199 564 1,816 194 36,874 1,003 0 0	1, 130 4, 832 1, 346 490 375 330 8 1, 198 0 8	5,876 7,341 8 1 43 6,681 8 8	54 2,664 858 0 196 7,496 0 0 0	3,861 1,627 490 738 270 74 786 1,233 8 0	446,578 196,134 49,264 76,984 54,288 46,950 55,715 16,273 45,055
SUB TOTAL RSA	840,545	88,583	47,588	9,709	19,965	11,268	9,079	1,026,737
TOTAL	1,808,661	482,944	441,165	31, 157	79,973	75,867	22.472	2,941,439

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

DEPARTMENT		1980-81			1981-82			1982-83	
	R8. D	RSA		R& D		TOTAL	R&D	RSA	TOTAL
AGRICULTURE AGR AGR-ADM AGR-DEV AGR-RI AGR-CGC CDC CLFB COMMUNICATION COMM-COMM	142.902 136.962 4.590 1.350 71	9,467 4,200 3,734 1,533 598 18	152,369 4,200 140,696 4,590 2,883 598 89	158, 460 151, 704 5, 103 1, 653 71	10,062 4,783 3,417 1,862 2,200 21	4,783 155,121 5,103 3,515 2,200 92	186,053 176,155 7,981 1,917 117	2,659 2,273 2,500 28	178,814 7,981 4,190 2, 500 145
CBC CRTC NFB NLIB NMUS PA SSHRC	602 382 2,891 25,568	3,636 252 17,245 51,124 10,817 16,810	65,979 65,322 657 3,636 692 634 17,245 54,815 10,817 42,378	76, 783 76, 783 679 427 5, 759 27, 874	5, 500 4, 517 983 4, 042 176 21, 609 52, 896 11, 960 18, 727	82,283 81,300 983 4,042 679 603 21,609 58,655 11,960 46,601	61,890 61,890 819 497 6,417 35,726	5,651 4,836 815 4,607 25,842 55,376 13,689 20,950	67, 541 66, 726 815 4, 607 25, 849 697 25, 842 61, 793 13, 689 56, 676
CCA CCA-ADM CCA-CON CCA-COR CCA-COR CCA-CICP	2,662 1,411 788 463	14,762	17,424	3,623 3,032	15,495 2,435 12,537	19,118 3,032 2,435	4,637	18,538	23,175
ECONOMIC DEVI	ELOPMENT	1,677	1,677		2,038	2,038			2,493
EI-ADM CEIC	1,528	8,001 8,001 7,758	9,529 9,529 7,758	1,477	8,125 8,125 9,255	9,602 9,602 9,255	1,568 1,568	8,612 8,612 8,126	10, 180 10, 180 8, 126
ENERGY MINES EMR EMR-ENER EMR-MES AECB AECL NEB	130,045	49,014	179,059 48,528 130,531 775 96,772 1,689	174,237 65,751 108,486 1,099 96,202	55,462 4,591 50,871 17,980 2,176	79.342	214,472 75,159 139,313 2,071 110,505	66,008 6,433 59,575 21,879 2,190	280,480 81,592 198,888 2,071 132,384 2,190
ENVIRONMENT ENV-ADM ENV-ES ENV-ES ENV-EPS ENV-AES ENV-ECS ENV-FOR ENV-PC	88,176 399 87,311 5,388 18,860 17,533 45,530 466	158,974 1,441 145,387 3,372 96,973	247,150 1,840 232,698 8,760 1,15,833 57,825 50,280 12,612	101,403 432 100,460 5,348 22,627 19,027 53,450 511	177, 615 1, 497 162, 756 2, 822 111, 480 43, 611 4, 843 13, 362	0 170	120,668 475 119,622 7,108 26,807 21,888 63,819 571	213, 435 1, 645 196, 932 2, 892 137, 943 50, 554 5, 543 14, 858	334,103 2;120 316,554 10,000 164,750 72,442 69,362 15,429
IJC	10,044	5,929	5,929 5,929 36,491 39,798 2,328	11,315 37,837	6,650 6,650 29,060 8,202 2,771	6,650 6,650 40,375 46,039 2,771	12,846 46,584	10,042	44,974
FINANCE FIN FIN-FEP	ANY 644 644	8,514	8,514		10,077	10,077		12,613 12,613	12,613
FISHERIES AND F&O F&O-FM	57,509 57,509	58,894 58,894	116,403 116,403	64,011 64,011	65,960 65,960	129,971 129,971	64,913 64,913	80, 880 80, 880	145,793 145,793
INDIAN AFFAI IAND IAND-IIA IAND-NA	3, 423 3, 423 3, 423	1,534 1,534	4, 957 4, 957 4, 957	3,748 2 3,746	2,674 378 2,296	6,422 380 6,042	4, 158 13 4, 145	2,740 382 2,358	6,898 395 6,503
INDUSTRY TRAI ITC ITC-TI ITC-TOUR ITC-GO			97,490 95,917 345 1,228	139, 343 137, 934 271 1, 138	4,203 4,095 108	143,546 142,029 379 1,138	168,628 167,297 271 1,060	4, 686 4, 578 108	173,314 171,875 379 1,060

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL		RSA	TOTAL
JUSTICE								6 000 she fire out 601 had 603 040	885 999 999 995 mit ten ein alle der 885
JUST-ADM JUST-CUIO JUST-CUIO CHRC LRC LABOUR	1,950	2,331	4,281 2,729 1,552 304	3,022	2,990 890	6,012 3,912	4,852 4,852	3,262	
JUST-CUIO		1,552	1,552		2,100	2,100	4,032	2,100	2,100
CHRC LRC		304	304	1 107	2,100 288 882	288	1,750	325	325
LABOUR	915	223	1,466	1,467	882	2,349	11128	1,188	2,938
LAB NATIONAL DEFEN	603	3,210	3,813	662	3,529	4, 191	745	3,979	4,724
		2,078	102,571	109,624	2,402	112,026	136,923	2,647	139,570
	100,493	2,078	102,571	109,624	2,402	112,026	136,923	2,647	
NATIONAL HEALT	27.568	36 244	63,812	31,804	40,810	72,614	32,575	48,336	80,911
NHW-ADM NHW-HSS NHW-MS NHW-HP NHW-IS	1,677	4,297	5,974	2,161	5,900	8,061	2,522	6,477	
NHW-HSS	12,576	4,680	17,256	13,308	5,435	18,743	12,495		18,566
NHW-MS NHUL-HP	11,229	26.736	2,086	3,918	28,863	3,918 41,280	2,167	74 971	2,167
NHW-IS		531	531		612	612	10/071	917	917
MRC	79,461	2,570	82,031	96,849	3,318	100,167	109,146	3,738	112,884
NHIIUNHL KEVEN		3.659	4.486	828	9 890				
	827	3,659 3,659	4,486 4,486	828 828	9,890	10,718	796 796	6,190	6,986 6,986
NREV-TAX PRIVY COUNCIL PC	5.49	and along which	549	589		589	89		89
COL		975	975		1, 172				
ECC	7,019	1.011	8,030	6,440	952	7,392	6,814	1,000	
PUBLIC WORKS	4 0.00	4,050	8,310	1,408	6,249	7 657	2,380	5,758	0 170
PW PW-PTS CMHC NCC	4,260	4,050	8.310	1,408	6,249	7,657 7,657	2,380		8,138
CMHC	4, 573	4,050 8,007	8,310 12,580 252	6,047	9,768	15,815	6,495	10,391	16,886
NCC REGIONAL ECONO	10 MIC EVPOR	242 ISTON	252	16	571	587	10	624	634
REE	872	1,611	2,483	1,071	2,216	3,287	1,258	7,027	8,285
SCIENCE AND TE	CHNOLOGY	7,004	8,362	I, 553	8,035	9,588	1,895	8,917	10,812
ST NRC NRC-SIR NRC-STI	189,977	36,125	226,102	254,997 254,997	42,377	297, 374		48,244	
NRC-SIR	189,977	21,467	211,444		23,787	278,784		26,579	
NSERC	146.238	14,658 16,633	14,658 162,871	180,023 1,912	18,590 21,780	18,590 201,803		21,665	
SC	1,498	1,392	2,890	1,912	1,630	3,542	202,484 2,201	I, 846	
SECRETARY OF S	TATE	3,228	9,073	5,992	4,025				10.041
SECS-OL	5,845 480	373		509	4,025	816	6,415 724	4,526	10,941 1,031
SECS-ES		373 139	853 139		415	415		895	895
SECS-TRA SECS-CIT	2,868	2,253 463	5,121 2,960	3,200	2,481	5,681	724 3, 108 2, 583	2,227	5,335 3,680
PSC			2,300			3,103	2,303	1,00r	3,000
SOLICITOR GENE	RAL	1 700			0.050	E 000			- 155
SGEN-ADM	2,415	1,760	4,175	3,013	2,656 2,656	5,669	3,013 3,013	2,156	
SGEN SGEN-ADM RCMP	71		71	295		295	300		
SUPPLY AND SER	VICES				0 5 10	45 447	10 505	0.545	
SS-SUPP	12,383	2,570 2,570	14,953 14,953	12,574 12,574	2,543	15, 117 15, 117 229, 965	12,583	2,545	
STCAN	5,828	138,306	.44, 134		221,857	229,965			187,219
TRANSPORT				0.100	10.047	0.0.000			
TPT TPT-ADM	5,350 3,600	11,801 2,486	17,151 6,086	9,120 5,584	12,243	21,363	15,777	8,173 4,555	
TPT-MAR	1,321	7,192	8,513	2,809	6,118	8,927	8,445	1,466	
TPT-AIR TPT-SUR	- 303	2,104	2,407	583	2,260	2,843	1,048	2,116	3,164
CTC	126	19 1,319	145 2,758	144	36 1,253	180 2,715	215	36 1,523	
TREASURY BOARD	ł.								
TB	113	10,553 10,553	10,666 10,666	113 113	12,814 12,814	12,927 12,927	128 128	15,316	
TB-ADM	A 8 W								

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

DEDODTMENT	a red for her and may see out out or a see	1980-31			1981-82	na pran dan dala u na akk dia dan dan diga dija daka	and dust any allo with hits allo allo allo allo allo allo	1982-83	an angg sign sign bada wasa dada dasat sign
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE AGR AGR-ADM AGR-DEV AGR-DEV AGR-FI AGR-CGC CDC CLFB COMMUNICATION	141,694 4,200 130,025 4,590 2,879 	10,675 10,671 4 598 20	152, 369 4, 200 140, 696 4, 590 2, 883 598 89	157,945 4,783 144,548 5,103 3,511 	10,577 10,573 4 2,200 10	168,522 4,783 155,121 5,103 3,515 2,200 92	184,076 5,084 166,825 7,981 4,186 	11,993 11,989 2,500 45	196,069 5,084 178,814 7,981 4,190 2,500 145
COMM COMM-COMM COMM-AC CBC CRTC NFB NLIB	45,962 45,577 385 1,738 534 634 17,225 44,036 10,817 4,802	20,017 19,745 272 1,898 68 20 9,929 38,376	65,979 65,322 657 3,636 632 634 17,245 54,015 10,817 42,378	$53,960 \\ 53,411 \\ 549 \\ 1,867 \\ 519 \\ 603 \\ 21,563 \\ 48,491 \\ 11,960 \\ 4,451 \\ \end{cases}$	28, 323 27, 889 434 2, 175 160 	82,283 81,300 983 4,042 679 603 21,609 58,655 11,960 46,601	56,331 55,881 450 2,123 569 697 25,796 50,855 13,689 5,328	11,210 10,845 365 2,484 250 	67,541 66,726 815 4,607 819 697 25,842 61,793 13,689 56,676
CCA CCA-ADM CCA-CON CCA-COR CCA-CICP	16,621 3,022 13,080 519	803 559 83	17,424 3,581 13,163 680	17,631 2,045 2,435 12,537 614	I,487 987 500	19,118 3,032 2,435 12,537 1,114	21,451 2,761 2,850 14,881 959	1,724 1,094 630	23,175 3,855 2,850 14,881 1,589
ECONOMIC DEVE ED EMPLOYMENT &	1,527	150	1,677	1,888	150	2,838	2,343	150	2,493
EI EI-ADM CEIC	8,638 8,638 4,573	891 891 3,185	9,529 9,529 7,758	8,733 8,733 8,436	869 869 819	9,602 9,602 9,255	9,272 9,272 7,326	908 908 800	10,180 10,190 9,126
EMR-ENER EMR-MES AECB AECL NED	4 KESOURCE 115, 422 2,239 113, 183 240 74, 129 1,677	,5 63,637 46,289 17,348 535 22,643 12	179,059 48,528 130,531 775 96,772 1,689	139,526 2,954 136,572 270 87,959 2,143	90,173 67,388 22,785 829 26,223 33	229,699 70,342 159,357 1,099 114,182 2,176	174,253 5,776 168,477 311 102,582 2,190	106,227 75,816 30,411 1,760 29,802	290,480 91,592 198,888 2,071 132,384 2,190
ENVIRONMENT ENV-ADM ENV-ES ENV-ES ENV-AES ENV-AES ENV-ECS ENV-FOR ENV-FC EXTERNAL AFF6		29,619 28,962 3,407 4,002 6,816 14,737 657	247,150 1,940 232,698 8,760 115,833 57,925 50,280 12,612	246,046 1,929 230,967 4,933 129,540 55,067 41,427 13,150	32,972 32,249 3,237 4,567 7,579 16,866 723	279,018 1,929 263,216 8,170 134,107 62,646 58,293 13,873	$\begin{array}{c} 300, 304\\ 2, 120\\ 283, 562\\ 5, 528\\ 160, 303\\ 64, 152\\ 53, 579\\ 14, 622 \end{array}$	33,799 32,992 4,472 4,447 8,290 15,783 807	334, 103 2, 120 316, 554 10, 000 164, 750 72, 442 69, 362 15, 429
EA EA-CIA CIDA IDRC IJC	4,317 4,317 2,198 12,052 2,249	1,612 1,612 34,293 27,746 79	5,929 5,929 36,491 39,798 2,328	4,888 4,889 2,417 14,190 2,657	1,762 1,762 37,958 31,859 114	6,650 6,650 40,375 46,039 2,771	5,282 5,282 2,810 17,424 2,786	1,938 1,938 42,164 39,202 202	7,220 7,220 44,974 56,626 2,988
FINANCE FIN FIN-FEP	8,514	4849 4849 4849	8,514 8,514	10,077		10,077 10,077	12,613		12,613
FISHERIES ANI F&O F&Ø-FM	D OCEANS 107,087 107,087	9,316 9,316	116,403 116,403	117,225	12,746 12,746	129,971 129,971	127, 4 7 1 127, 471	18,322 18,322	145, 793 145, 793
INDIAN AFFAII IAND IAND-IIA IAND-NA	3, 455 3, 455	1,502	4, 957 4, 957	4,037 80 3,957	2,385 300 2,085	6,422 380 6,042	4, 202 95 4, 107	2,696 300 2,396	6,898 395 6,503
INDUSTRY TRAI ITC ITC-TI ITC-TOUR ITC-GO	DE AND COMP 6,436 6,197 189 50	1ERCE 91,054 89,720 156 1,178	97,490 95,917 345 1,228	7,291 7,028 208 55	136,255 135,001 171 1,083	143,546 142,029 379 1,138	8,789 8,521 208 60	164, 525 163, 354 171 1, 000	173,314 171,875 379 1,060

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

		1980-81	er annå blav soch sinn sinn sinn meg gifti joge v	the name with with state and the last state and over hand in	1931-82	slide som som som som som som som som over s		1932-83	Mill area area area area vado area area disab
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- Mural	TOTAL
CHRC LRC	2,497 945 1,552 304 542	1,784 1,784 924	4,281 2,729 1,552 304 1,466	3,451 1,351 2,100 288 689	2, 561 2, 561 1, 660	6,012 3,912 2,100 288 2,349	4, 311 2, 211 2, 160 325 870	3, 803 3, 803 2, 068	8,114 6,014 2,100 325 2,933
LABOUR LAB NATIONAL DEFEN	3,446	367	3,813	3,790	401	4,191	4,272	452	4,724
NDEF	73,705 73,705	28,866 28,866 FAPE	102,571 102,571	75 ,754 75,754	36,272 36,272	112,026 112,026	84, 427 84, 427	55, 143 55, 143	139, 57 0 139,570
NHW ADM NHW-ADM NHW-HSS NHW-HS NHW-HS NHW-IS MRC NATIONAL REVEI	44,847 4,254 1,660 1,745 36,657 531 1,556	18,965 1,720 15,596 341 1,308 80,475	63,812 5,974 17,256 2,086 37,965 531 82,031	50,467 5,826 1,979 2,918 39,132 612 1,757	22,147 2,235 16,764 1,000 2,148 98,410	72,614 8,061 18,743 3,918 41,280 612 100,167	59,013 6,744 2,020 2,167 47,165 917 1,976	21,898 2,255 16,546 3,897 110,908	80,911 8,999 18,566 2,167 50,262 917 112,884
NREV NREV-TAX PRIVY COUNCIL	4,486 4,486	name same name	4,486 4,486	10,718 10,718	ann ann ana bhlir ann ann	10,718 10,718	6,986 6,986	ward arms many	6,986 6,986
PC COL ECC PUBLIC WORKS	975 7,497	549 533	549 975 8,030	1,172 6,902	589 490	589 1,172 7,392	3,097 7,319	8 9 	89 3,097 7,814
PW PW-PTS CMHC NCC	3,944 3,944 8,308 203	4,366 4,366 4,272 49	8,310 8,310 12,580 252	5,511 5,511 9,025 381	2,146 2,146 6,790 206	7,657 7,657 15,815 587	5,508 5,508 9,889 494	2,630 2,630 6,997 140	8,138 8,138 16,886 634
REGIONAL ECONO REE SCIENCE AND TI	820	1,663	2,483	1,011	2,276	3,287	1,198	7,087	8,285
ST NRC	6,472 159,801 145,143 14,658 3,346 2,504	1,890 66,301 66,301 159,525 386	8,362 226,102 211,444 14,658 162,871 2,890	7,549 193,362 174,838 18,524 4,312 2,937	2,039 104,012 103,946 66 197,491 605	9,588 297,374 278,784 18,590 201,803 3,542	8,382 240,469 218,878 21,591 5,686 3,357	2,430 120,223 120,149 74 221,395 690	10,812 360,692 339,027 21,665 227,081 4,047
SECRETARY OF	STATE 4,742 71 139 4,459 73	4,331 782 662 2,887	9,073 853 139 5,121 2,960	5,724 91 415 5,141 77	4,293 725 540 3,028	10,017 816 415 5,681 3,105	5, 453 91 465 4, 545 352	5, 488 940 430 790 3, 328	10,941 1,031 895 5,335 3,680
PSC SOLICITOR GEN SGEN SGEN-ADM RCMP SUPPLY AND SE	1,525	2,650 2,650 71	4, 175 4, 175 71	1,810 1,810 150	3,859 3,859 145	5,669 5,669 295	1,810 1,810 150	 3,359 3,359 150	5,169 5,169 300
SS SS-SUPP STCAN TRANSPORT	107 107 144,044	14, 846 14, 846 90	14, 953 14, 953 144, 134	117 117 229,844	15,000 15,000 121	15,117 15,117 229,965	128 128 187,110	15,000 15,000 109	15,128 15,128 187,219
TPT-ADM TPT-ADM TPT-AAR TPT-AIR TPT-SUR CTC TREASURY BOAR	9,002 1,529 7,066 308 99 2,330	8,149 4,557 1,447 2,099 46 428	17,151 6,086 8,513 2,407 145 2,758	9,904 2,580 6,463 740 121 2,237	11,459 6,833 2,464 2,103 59 478	21,363 9,413 8,927 2,843 180 2,715	7,365 3,117 2,890 1,167 191 2,777	16,585 7,507 7,021 1,997 60 478	23,950 10,624 9,911 3,164 251 3,255
TB-ADM	10,553 10,553	113 113	10,666 10,666	12,814 12,814	113 113	12,927 12,927	15,316 15,316	128 128	15, 444 15, 444
TOTAL 1	,350,983	770,271	2,121,254	1,618,404	986,119	2,604,523	1,808,661	1,132,778	2,941,439

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

INTRAMURAL, BY DEPARTMENT OR AGENCY

DEPARTMENT		1980-81		97 may mak AMB AMB AMB 100 100 100 100 may any bas	1981-82	ar war was been wer any and and, dat dat of	15 mil 48 Mil 46 mil 49 An 49	1982-83	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGR-RI AGR-CGC CLFB	133,972 128,032 4,590 1,350 51	7,722 4,200 1,993 1,529 18	141,694 4,200 130,025 4,590 2,879 69	148,842 142,086 5,103 1,653 61	9,103 4,783 2,462 1,858 21	157,945 4,783 144,548 5,103 3,511 82	174, 127 164, 229 7, 981 1, 917 77	9,949 5,084 2,596 2,269 23	184,076 5,084 166,825 7,981 4,186 100
COMM-COMM COMM-AC CBC CRTC NFB NLIB NMUS PA SSHRC	41,740 41,740 534 382 2,613 2,054	3,837 385 1,738 252 17,225 41,473 10,817 1,948	45,962 45,577 385 1,738 534 634 17,225 44,086 10,817 4,002	49,669 49,669 519 427 5,458 2,269	1,867	$53,960 \\ 53,411 \\ 549 \\ 1,867 \\ 519 \\ 603 \\ 21,536 \\ 48,401 \\ 11,960 \\ 4,451 \\ \end{cases}$	51,905 569 497 6,198		56, 331 55, 881 450 2, 123 569 697 25, 796 50, 855 13, 689 5, 328
CCA-ADM CCA-CON CCA-COR CCA-CICP	2,020 852 705 463	14,601 2,170 12,375	16,621 0 3,022 13,080 519	2,601 2,045 556	15,030 2,435 12,537 58	17,631 2,045 2,435 12,537 614	3,543 2,761 782	17,908 2,850 14,881 177	
ECONOMIC DEVEN	010 Million 1999	1,527	1,527		1,888	1,888		2,343	2,343
EMPLOYMENT & EI EI-ADM CEIC	1,465	7, 173 7, 173 4, 573	8,638 8,638 4,573	1,42 8 1,428	7,305 7,305 8,436	8,733 8,733 8,436	1,518	7,754 7,754 7,326	9,272 9,272 7,326
EMR-ENER EMR-MES AECB AECL NEB	72,902 420	42,520 1,819 40,701	115, 422 2, 239 113, 183 240 74, 129 1, 677	91,682 1,045 90,637 270 82,431	47,844 1,909 45,935 5,528 2,143	139,526 2,954 136,572 270 87,959 2,143	119,151 3,184 115,967 311 95,428	55,102 2,592 52,510 7,154 2,190	174, 253 5, 776 168, 477 311 102, 582 2, 190
ENV-ADM ENV-ES ENV-EPS ENV-AES ENV-ECS ENV-FOR ENV-PC		149,604 1,441 136,317 3,047 93,740 34,780 4,750 11,846	217,531 1,840 203,736 5,353 111,831 51,009 35,543 11,955	78,901 432 78,350 2,398 21,798 17,572 36,584 119	I67, 145 1, 497 152, 617 2, 535 107, 744 37, 495 4, 843 13, 031	246,046 1,929 230,967 4,933 129,540 55,067 41,427 13,150	97,757 475 97,150 2,923 25,923 20,268 48,036 132	202,547 1,645 186,412 2,605 134,380 43,884 5,543 14,490	300,304 2,120 283,562 5,528 160,303 64,152 53,579 14,622
EXTERNAL AFFA EA CIDA IDRC IJC FINANCE	7,298	4,317 4,317 1,828 4,754 2,249	4,317 4,317 2,198 12,052 2,249	436 8,655	4,888	4,888 4,888 2,417 14,180 2,657	471 10,702	5,282 5,282 2,339 6,722 2,786	5,282 5,282 2,810 17,424 2,786
FINHICE FIN FIN-FEP		8,514 8,514	8,514		10,077 10,077	10,077		12,613	12,613
FISHERIES AND F&O F&O-FM	51,034 51,034	56,053 56,053	107,087 107,087	55,725 55,725	61,500 61,500	117,225	54,054 54,054	73, 417 73, 417	127, 471 127, 471
INDIAN AFFAIR IAND IAND-IIA IAND-NA	2.013	1,442	PMENT 3,455 0 3,455	2,296 2,294	1.741 78 1.663	4,037 80 3,957	2, 332 13 2, 319	1,870 82 1,788	4,202 95 4,107
INDUSTRY TRAD ITC ITC-TI ITC-TOUR ITC-GO	E AND COMP 6,338 6,197 91 50	98 98	6,436 6,197 189 50	7,183 7,028 100 55	108 108	7,291 7,028 208 55	8,681 8,521 100 60	108	8,789 8,521 208 60

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

INTRAMURAL, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAI
USTICE									
JUST	677	1,820	2,497	1,013	2,438	3,451	1,825	2,486	4,31
JUST-ADM JUST-CUIO	677	268	945 1,552	1,013	338 2,100	1,351 2,100	1,825	386 2,190	2/211
CHRC		304	304		288	283		325	325
LRC	246	296	542	387	302	689	511	359	870
ABOUR	411	3,035	3,446	452	3,338	3,790	509	3,763	4,27
ATIONAL DEFEN		1,953	73,705	73,515	2,239	75,754	81,938	2,489	84,42
NDEF NDEF-SER ATIONAL HEALT	71,752 71,752 H AND WEI	1,953	73,705	73,515	2,239	75,754	81,938	2,483	84,42
ИНЫ	14,556	30,291	44,847	16,635	33,832	50,467	18,346	40,667	59,01
NHW-ADM NHW-HSS	1,527 938	2,727 722	4,254 1,660	1,996 1,071	3,830 908	5,826 1,979	2,337	4,407 911	6,74
NHW-MS	1,745	E Ga Ga	1,745	2,918		2,918	2,167		2,16
NHW-НР	10,346	26,311	36,657	10,650	28,482	39,132	12,733	34, 432	47,16
NHW-IS MRC	1,435	531 121	531 1,556	1,618	612 139	612 1,757	1,821	917 155	91 1,97
ATIONAL 'REVEN		λ C. 1	1,000	1,010	135	DIDE	1,021	100	17.01
NREV	827	3,659	4,486	828	9,890	10,718	796	6,190	6,98
NREV-TAX RIVY COUNCIL	827	3,659	4,486	828	9,890	10,718	796	6,190	6,98
COL		975	975		1,172	1,172	gan, may map	3,097	3,09
ECC JBLIC WORKS	6,486	1,011	7,497	5,950	952	6,902	6,319	1,000	7,31
PM	1,318	2,626	3,944	353	5,158	5,511	777	4,731	5,50
PW-PTS	1,318	2,626	3,944	353	5, 158	5,511	777	4,731	5,50
	3,000	5,308 203	8,308 203	3,550	5,475 381	9,025 381	3,890	5,999 494	9,88
EGIONAL ECONO					001	001			
REE CIENCE AND TE	820 CUNOLOGY	aga een aan	820	1,011		1,011	1,198		1,19
ST	CHHOLOGY	6,472	6,472		7,549	7,549	-	8,382	8,38
	126,182	33,619	159,801	153,342	40,020	193, 362	194,891	45, 578	240,46
NRC-SIR NRC-STI	126,182	18,961 14,658	145,143	153,342	21,496 18,524	174,838 18,524	194,891	23,987 21,591	218,87
ISERC	2,677	669	3,346	3,450	862	4,312	4,548	1,138	5,68
SC	1,112	1,392	2,504	1,307	1,630	2,937	1,511	1,846	3,35
ECRETARY OF S SECS	2,378	2,364	4,742	2,950	2,774	5,724	2,608	2,845	5,45
SECS-OL		71	71		91	91		91	9
SECS-ES		139	139		415	415		465	46
SECS-TRA SECS-CIT	2,378	2,081	4,459 73	2,950	2,191 77	5,141	2,608	1,937 352	4,54
OLICITOR GENE	RAL							000	00
SGEN	775	750	1,525	938	872	1,810	938	872	1,81
SGEN-ADM RCMP	775	750	1,525 Ø	938 150	872	1,810 150	938 150	872	1,81
UPPLY AND SER	VICES		_						
SS CURR	88	19	107	97	20	117	106	22	· 12
SS-SUPP STCAN	88 5,828	19 1 38 ,216	107 144,044	97 8,108	20 221,736	117 229,844	106 9,324	22 177,786	12 187,11
RANSPORT									
TPT ODM	1,691	7,311	9,002	2,846	7,058	9,904	4, 429	2,936	7,36
TPT-ADM TPT-MAR	696 6 02	833 6,464	1,529 7,066	1,223 945	1,357 5,518	2,580 6,463	1,192	1,925	2,89
TPT-AIR	303	5	308	583	157	740	1,048	119	1,16
TPT-SUR	90	9	99	1 95	26	121	165	26	19
CTC REASURY BOARD	1,139	1,191	2,330	1,092	1,145	2,237	1,362	1,415	2,77
TB		10,553	10,553		12,814	12,814		15,316	15,31
TB-ADM		10,553	10,553	alle ann ffer	12,814	12,814	Augu 1994 1994	15,316	15,31
	705,170	0.4E 0.4B	1,350,983	818,445	200 050	1,618,404	968,116	840,545	

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

INDUSTRY, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

EPARTMENT		1980-81			1981-82			1982-83	
OR DENCY	R&D	RSA	TOTAL	R8.D	RSA	TOTAL	R&D	RSA	TOTAL
						· · · · · · · · · · · · · · · · · · ·			
-FICULTURE	3,060	aa aa uu	3,060	3,764	25	3,789	5,082	50	5,132
NGR-DEV	3,060	196	3.060	3,764	25	3,789	5,082	1,300	5,132
CINC CLFB		1.20	0		17100	0	20	1,505	25
CHMUNICATIONS	16,390	984	17,374	22,822	1,089	23,911	9,025	1,130	10, 155
COMM-COMM	16,390	736 248	17,126 248	22,822	705 384	23,527 384	9,025	790 340	9,815
CBC		1,898	1,898	MA AND 100-	2,175	2,175	50	2,484	2,484
TIMUS		610	610		632	632		696	696
DHSUMER AND C	I22	FFAIRS	192	209	150	359	233	200	433
CCA-ADM CCA-CON	99		Ø 99	209		209 Ø	233		233
CCA-COR	23		23			Ø			E
CONCARCICE CONOMIC DEVEL	OPMENT	70	70	WH 400 (10)	150	150		200	200
PLOYMENT & I	MMIGRATION 7	718	725	49	820	869	50	858	908
EI-ADM EIC	7	718	725 725 1,701	49	820	869	50	858	906
HERGY MINES &		1,701			779	779		800	
HMR-ENER	21,203	6,220	27,423	27,129	7,356 2,682	34,485 21,265	26,054	10,635 3,841	36,689
EMR-MES	4,598 270	5,401	9,399 270	8,546	4,674	13,220	10,569	6,794	17,363
HECL	7,655	12,590	20,245	11, 155	12,413	23,568	12,248	14,695	26,943
HU'I RONMENT	13,256	1,709	14,965	14, 131	1,935	16.066	12,286	1,860	14, 140
ENU-ES ENU-EPS	13,100	1,644	14,744	13,959 2,200	1,864	15,823	12,093	1,782	13,875
ENVHAES	2,102	285 473	473		634	634		418	418
EHV-ECS EHV-FOR	198	886	1,084	208	990	1,198	258 8,400	1, 124	1,382
ENU-PC	156	65	221	172	71	243	193	78	271
⊆1.bé		22,400	22,400		24,640	24,640		27,104	27,104
THANCE TISHERIES AND	OCEANS								
PAO F&Ø-FM	3,350	1,965	5,315	5,238	3,423	8,661	7,092	6,164	13,256
UNDIAN AFFAIRS	& NORTHER	IN DEVELOP	MENT						
IAND-NA	422	41	463 463	261 261	56 56	317 317	588	125	713
HUUSTRY TRADE	AND COMME		87,068	128,256	3,590	131,856	156,054	4,273	160, 327
ITC-TI	84,34 8 83,416	2,728	86,144	127,413	3,590	131,003	155,283	4,273	159,556
TC-TOUR	156 768		156 768	171 682		171 682	171 600		171
NUSTICE ARC		257	257		580	580		829	829
CAROUR									
TIONAL DEFEN	45 ICE	75	120	49	82	131	55	93	148
HDEF-SER	22,972	72 72	23,044	29,708	85 85	29,793 29,793	47,093	82 82	47,175
ATIONAL HEALT	TH AND WELF	ARE							
HHH-HSS	221	360	581 269	320	833 569	1,153 786	415	1,286	1,701
HW-HP	15	297	312	103	264	367	145	300	445
HIVY COUNCIL			222			700	200		701
LIC WORKS	296		296	300		300	300		300
PH FW-PTS	2,937	1,125	4,062	1,045	908 908	1,953	1,553	990 990	2,543
CHHC	1,345	1,147	2,492	2,150	1,878	4,028	2,245	1,903	4, 148
NEC ESTONAL ECONO	MIC EXPANS	34 STON	34		190	190	NY 441 441	130	136
HEE IENCE AND TH	52 SCUNOT OCV	626	678	60	1,046	1,106	60	1,230	1,298
HEC	46,020	666	46,686	74,090	963	75,053	85,775	812	86,587
HRC-SIR HSERC	46,020	666	46,686	74,090 2,839	963 400	75,053 3,239	85,775 3,945	812 447	86, 587 4, 392
CORETARY OF S	152	-	152	247	195 ann ann	2 47	282		282
SECS		302	302		550	550		980	98
SECS-OL SECS-ES		302	302		200	200		200	200
SECS-CIT			Ø		350	350		350	358
CLICITOR GENE	635	685	1,320	833	615	1,448	850	615	
GEN-ADM PIMP	635 42	685	1,320	833 60	615	1,448	850 90	615	1,465
LEPTY AND SEE	RVICES								
S-SUPP	10.647	2,128	12,775	10,765	2,097	12,862	10,767	2,097	12,86
THISPORT	3,240	4, 196	7,436			10,438		4,602	15,45
TPT-ADM	2,595	1,389	3,984		4,622	5.891	4, 428	2,025	6,45:
TPT-MAR TPT-AIR	6.45	708	1,353	1,864	2,103	2,444 2,103 308	6,421	580	7,00
C PC	150	128	278	200	108	308	200	108	1,997 308
ILLASURY SUHRI									
A A FRANCISCO R	240 400	65 671	706 000	341 917	75 1/40	417 057	394,361	00 507	403 04

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES UNIVERSITY, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT OR		1980-81			1981-82			1982-83	
AGENCY	R8.D		TOTÁL	RED		TOTAL	R&D		TOTAL
	ir dae ver ans nas and and ner hav -				and the angle has been also had also a				
AGRICULTURE	3,752		3,752	4,369	13	4,382	5,554	13	5,567
AGR-DEV CDC	3,752	102	3,752	4,369	13 700	4,382 700	5,554	13	5,567
CLFB COMMUNICATIONS	3		3	600 million and		0	ana ana ana		e
COMM COMM-COMM	975 975	57 33	1,032	1,025	100	1,125	960 960	95 70	1,055
COMM-AC CRTC		24	24	40	40	40 40	85	25	25
NMUS	23,514	901 9.749	100	25,605	928	928	470. 470. 470	1,003	1,003
CONSUMER AND CO	ORPORATE I	AFFAIRS	33,263		11,045	36,650	32,728	12,430	45, 158
CCA CCA-ADM	74		84 0	245 245	100	345 245	277 277	100	377 277
CCA-CON CCA-COR	20 54		20 54		an. and and an and an	0			E
CCA-CICP ECONOMIC DEVELO	PMENT	10	10		100	100		100	100
EMPLOYMENT & IN		N 10	10	with radie same	-	0			Ø
ÉI-ADM CEIC		10	10		40.00.00	Ø			2
ENERGY MINES &	RESOURCE	S			17	17			0
EMR-ENER	2,987	141 16	3,128 231	4.318	171	4,489 130	4,692 130	182	4,874
EMR-MES AECB	2,772	125	2,897 219	4,188 364	171	4,359 364	4,562 550	182	4,744 550
AECL ENVIRONMENT	1.781	24	1,805	1,900	39	1,939	2,136	30	2,166
ENV-ES	3,263 3,186	332 324	3,595 3,510	3,445 3,361	496 486	3,941 3,847	3,630 3,536	558 548	4, 188 4, 084
ENV-EPS ENV-AES	S15		515	315		315	315		315
ENV-ECS	614 827	211 113	825 940	732 896	358 128	1,090	775 967	408 140	1,183
ENV-FOR ENV-PC	1,230	8	1,230	1,418 84	10	1,418 94	1,479 94	10	1,479
EXTERNAL AFFAII EA	100 - 0 - 100	1,480	1,488	100 mm and	1,620	1,620		1,782	1,782
EA-CIA CIDA	350	1,480	1,480	400	1,620	1,620 2,556	400	1,782	1,782
IDRC FINANCE	213		213	624	103	727	1,393	154	1,547
FISHERIES AND (F&O	CEANS 1,220	108	1,328	1,197	109	1,306	1,558	100	1.000
F80-FM	1,220	108	1,328	1,197	109	1,306	1,558	100	1,658 1,658
INDIAN AFFAIRS	694	22	716	889	33	922	1,009	15	1,024
IAND-NA INDUSTRY TRADE			716	889	33	922	1,009	15	1,024
ITC ITC-TI	1,666	475 475	2,141 2,106	3,376 3,350	505 505	3,881 3,855	3,350 3,350	305 305	3,655 3,655
ITC-GO JUSTICE	35		35	26		26			0
JUST JUST-ADM		32 32	32 32		46 46	46 46	-	51 51	51 51
LABOUR	125	45	170	137	49	186	154	55	
NATIONAL DEFENS		53	2,858	4,210	78				209
NDEF-SER	2,805	53	2,858	4,210	78	4,288 4,288	5,026 5,026	76 76	5,102 5,102
NATIONAL HEALTH	8,784	2,347	11,131	9,372	2,134	11,506	9,028	2,281	11,309
NHW-ADM NHW-HSS	150	2,244	150 10,438	165 8,966	2,032	165 10,998	185	2,159	185
NHW-HP MRC	440 75.214	103	543 77,497	241 92,054	102	343 95,037	930 103,745	3,362	1,052
NATIONAL REPENI PRIPY COUNCIL	JE				27000		10071 10	370 GL	1017101
PC ECC	49 197		49 197	53 150		53 150	8		8
PŪBLIC WORKS		43	43	10	5		150		150
PW-PTS		43	43	18	5	15 15	10 10		10 10
CMHC Regional econor			671	92	914	1,006	105	948	1,045
REE Science and tec		19	19		4	4			0
ST NRC	14,963	2 701	2 15,664	20,194	797	20,991	23,824	895	24,719
NRC-SIR	14,963 138,848	701 701 13,419	15,664	20,194	797	20,991 20,991 187,659	23,824	895 19,531	24.719
SC SECRETARY OF ST	22		22	54		54	61		61
	490 490	1000 1000 1000	490	250	55	305	500	55	555
SECS-CIT	100 - 100 - 100		490 0	250	55	250 55	500	55	500 55
SOLICITOR GENER	879	20	899	1,072		1,072	1,055	-	1,055
SGEN-ADM RCMP	879 29	20	899 29	1,072		1,072	1,055 60		1,055
SUPPLY AND SERV	/ICES 1,131	281	1,412	1,070	318	1,388	1.070	318	1,388
SS-SUPP TRANSPORT	L 131	281	1,412	1,070	318	1,388	1,070	318	1,388
TPT	175	103	278 278	341	82	423	375	84	459
TPT-ADM CTC	175	103	278	341 145	82	423	375 145	84	459 145
			0 10 10 au un un un un au au au au			10 100 100 100 au uir vur um an dat v			
TOTAL 2	84,587	35,369	319,956	347,278	43,067	390,345	393,577	47,588	441,165

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

NON-PROFIT INSTITUTIONS, BY DEPARTMENT OR AGENCY

DEPARTMENT		1980-81			1981-82	an an aid ao ais ao ao ao 10 70 70		1982-83	
OR AGENCY	R6.D	RSA	TOTAL	R8.D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE									
AGR AGR-DEV	397 397		397 397	502 502		502 502	681 681		681 681
CDC COMMUNICATIONS		300	300		400	400	NUME AND DESC	400	400
COMM COMM-COMM	100 100 000	8	8	444, 1977 1977	20	28 10			0
COMM-AC CRTC	34		34	35	10	10	40	1, 198	0 40 1,198
NMUS SSHRC CONSUMER AND CO	DEPOPOTE C	1,061 2,502	1,061 2,502		2,400	1,037 2,400		2,701	2,701
CCA CCA-ADM	11		11	13 13		13 13	14 14		14
CCA-CON ECONOMIC DEVELO	1 I		I I		PE 22 40	0		-	8
ED EMPLOYMENT & II		150	150		150	150		150	150
EI-ADM		100	100	400 0.00 640 Ann Ann		8			0 0
ENERGY MINES & EMR	767	38	805	1,926	32	1,958	2,426	30	2,456
EMR-ENER EMR-MES	17	8 30	25 780	1.710	32	1,710 248	2,110	30	2,110
AECB ENV1RONMENT	3		3	5		5	10	251	10 5,881
ENV-ES	2,724	190 32	2,914 2,756	3,660	224 50	3,884 3,710 75	5,630 5,630 75	56	5,686
ENV-EPS ENV-AES	236 13	16 16	236 29 16	75	32	32		36 20	36
ENV-ECS ENV-FOR ENV-PC	2,475	158	2,475	3,585	174	3,585	5,555	195	5,555
EXTERNAL AFFAIL	RS 317		317	320	71	391	534	109	643
FINANCE FISHERIES AND									
F&O F&O-FM	1,485	325 325	1,810	1,479 1,479		I,479 1,479	1,721		1,721
INDIAN AFFAIRS	56	9	65	173	525	698	177	385	562
IAND-NA INDUSTRY TRADE	AND COMM	9 ERCE	65	173	525	698	488	385	562 400
ITC-GO	375 375		375 375	375 375		375 375	400		488
JUSTICE JUST JUST-ADM	611 611	300 300	911 911	700 700	300 300	1,000	420 420	400	820 820
LRC			0	7		7	8		8
LAB NATIONAL DEFEN	15 CE		15	16		16	18		18
NATIONAL HEALT	H AND WEL	1,442	4,241	2,732	1,643	4,375	2,989	1,638	4,627
NHW-HSS NHW-HP	2,748 51	1,442	4, 190	2,646 86	1,643	4,289	2,804 185	1,638	4,442
MRC NATIONAL REVEN	UE	135	135		157	157	an an 10	177	177
PRIVY COUNCIL PC ECC	500	-1079 -1070 mm.	500 10	536	an an an	536 15	81 30		81
PUBLIC WORKS	10	49	49	15	34	34		35	35
PW-PTS CMHC	96	49	49 447	105	34 594	34 699	105	35 613	35 718
REGIONAL ECONO SCIENCE AND TE	MIC EXPAN								
NRC NRC-SIR	140 140	*** ***	140 140	1,064	66	1,130	1,017	74	1,091 1,017
NRC-STI NSERC	1,558	834	2,392	1,722	66 975	66 2,697	2,065	1,160	3,225
SC SECRETARY OF S	26 TATE	man paper white	26	30		30	33	ana dito site	33
SECS-OL	2,409	140	2,549 480	2,224 509	340	2,564	2,739 724	340	3,079
SECS-CIT SOLICITOR GENE		140	2,069	1,715	340	2,055	2,015	340	2,355
SGEN SGEN-ADM SUPPLY AND SEP	26 26 26	10 10	36 36	32 32	605 609 609	32 32	32 32		32
SUPPLY AND SER SS SS-SUPP	75 75	31 31	106 106	100	48 43	148 148	100	48 48	I 48 1 48
TRANSPORT	25		25	24	we use the	24	50		50
TPT-SUR TREASURY BOARD	25		25	24	Ann 488 and	24	50	and such and	50
TB-ADM	113 113	60 60 60	113 113	113 113		113 113	128 128		128 128
TOTAL	14,572	7,975	22,547	17,908	9,076	26,984	21, 448	9,709	31, 157
100 10 40 40 40 40 ml an an we we see an an									

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

PROVINCIAL & MUNICIPAL GOVERNMENTS, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&.D	RSA	TOTAL
	in this way well your white white they doll a			war alle alle and has nev over all diffs and this is	an and they say you have been also and	and and our over the rest of the state and			
AGRICULTURE	1,692		1,692	295		295			0
AGR-DEV	1,692		1,692	295		295	where which define		0
COMMUNICATIONS NNUS		5,887	5,887		6,073	6,073		6,601	6,601
CONSUMER AND CO CCA	DRPORATE I 16	AFFAIRS	16	19	-the same article	19	21		21
CCA-ADM			0	19		19	21	100 000 000	21 0
CCA-CON ECONOMIC DEVELO	16 DPMENT	will die vor	16	after same waar		0			0
EMPLOYMENT & II EI	MMIGRATIO 36	N	36	4993		Ø	ware were shift		0
EI-ADM	36	100 and 100 and 100	36	the set the	THE REP THE	Ø	eres que mini		Ø
ENERGY MINES & EMR	RESOURCE: 29,773	5	29,773	46,021	Auto year year	46,021	56,885		56,885
EMR-ENER EMR-MES	28,305		28,305	44,283		44,283	54,250 2,635		54,250 2,635
AECB	23		23		1007 Auto Auto	0	2/000		20
ENVIRONMENT ENV	229	4,093	4,322	300	4,525	4,825	272	4,873	5,145
ENV-ES ENV-EPS	228	4,093	4,321 50	299 60	4,525	4,824 60	271 60	4,873	5,144 60
ENV-AES	50	117	117		120	120		123	123
ENV-ECS ENV-FOR	- 58 120	3,976	4,034 120	99 140	4,405	4,504	108 103	4,750	4,858 103
ENV-PC	1		1	1		1	1	100 AU	1
EXTERNAL AFFAII FINANCE									
FISHERIES AND (F&O	DCEANS	20	20		74	74		190	190
F&Ø-FM		20	20		74	74		190	190
INDIAN AFFAIRS	& NUKIME		0		19	19		25	25
IAND-NA INDUSTRY TRADE	AND COMM	ERCE	0		19	19		25	25
ITC	1,158		1,158			0		while while reach	e e
ITC-TI JUSTICE	1,158		1,158			8			-
JUST JUST-ADM	219 219	nini nini nya.	219 219	418 418		418 418	I,292 1,292		1,292
LABOUR									
NATIONAL DEFEN NDEF	120	this site was	120	150		150	207		207
NDEF-SER NATIONAL HEALT	120 H AND LIFT	FORF	120	150		150	207		207
ИНМ	350	1,619	1,969	242	2,145	2,387	274	2,126	2,400
NHW-ADM NHW-HSS	350	1,570	1,570	242	2,070 74	2,070	274	2,070 55	2,070
NHW-HP NATIONAL REVEN		2	2		1	2		1	1
PRIVY COUNCIL .	ΟL								
PUBLIC WORKS			Ø			Ø	40	1010 shift shift	48
PW-PTS CMHC			0 65		63	0 153	40 90	70	40 160
NCC	10		10	11		11	10		10
REGIONAL ECONO REE	MIC EXPAN	5ION 966	966		1,166	1,166		5,797	5,797
SCIENCE AND TE	CHNOLOGY 68		68	677		677	759	an or or	759
NRC-SIR	68		68	677		677	759		759
SECRETARY OF S SOLICITOR GENE									
SGEN	100 100	20 20	120 120	138 138		138 138	138 138		138
SGEN-ADM SUPPLY AND SER		20	120	1.50		138	100		136
TRANSPORT TPT	3	92	95		237	237		283	283
TPT-ADM TREASURY BOARD	3	92	95	your must offer	237	237	water that we we	283	283
dalar dani yane yane yane unit titir dalar yane yane yane yane insi i			به منه الله منه منه الله الله منه الله منه الله ال 						
TOTAL	33,850	12,709	46,559	48,361	14,302	62,663	60,008	19,965	79,973

NATURAL AND HUMAN SCIENCES

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

FOREIGN, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT OR		1980-81			1981-82			1982-83	
AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
GRICULTURE									
AGR	29 29	4	33	688	4	692	609	4	613
AGR-DEV AGR-CGC	29		29	688		688	609		609
OMMUNICATIONS									
COMM COMM-COMM	1,589		1,589	3,267		3,267			6
ALIB SSHRC		2,611	2,611		73	73		46	3,489
DHGUMER AND C	ORPORATE A				3,100	3,100		3,463	3,463
CCA-ADM	38		38	43 43		43 43	47		4
CCA-CON	38		38		ware below ware	0			4
CONOMIC DEVEL Ployment & I		N							
11	20		20			0	and this man		
EI-ADM TEIC	20		20 39		23	23		-	6
HERGY MINES & Emr	RESOURCES	5 32	1,385	1,229	22		2,930	22	
EMR-ENER	289	15	304	1,223		L.251 0	2,530	22	2,952
EMR-MES HECL	1,064	17	1,081 259	1,229	22	1,251	2,930	22	2,952
IL IRONMENT	233		209	000		586	554	and and day	554
ENM-ES	265	592 592	857 857	188	618 618	806 806	213 213	620 620	833
ENV-EPS	122		122	15	-	15	15		15
ENV-AES ENV-ECS	21	567 25	588	15	590 28	590 43	18	590 30	598
ENV-FOR	108		108	158		158	180		180
KTERNAL AFFAI EA	RS	132	132		142	142		156	150
EA-CIA		132	132		142	142		156	150
CIDA IDRC	9,324	258	9,582 26,749	10,479 27,973	283	10,762 30,351	11,975	2,904	12,287
INANCE OND	OCTONE								
ISHERIES AND P&O	90		90	29	-	29	64		64
F&O-FM 4DIAN AFFAIRS	90	PH DEVELOR	90	29		29	64		64
IDUSTRY TRADE			4 0511 L						
JSTICE BOUR									
TIONAL DEFEN							1 mar 10		
IDEF-SER	2,770	1772 dans- salada	2,770	1,972		1,972	2,573		2,573
TIONAL HEALT	H AND WELD								
(HU) - 제임의-HSS	588 132	62 62	650 194	2,049	92 92	2,141 247	963	155 155	1,118
NHW-MS	341		341	1,000		1,000			E
NHW-HP Mrc	115 2,812	31	115	894	39	894 3,216	838 3,580		3,624
ATIONAL REVEN						0, 1, 0			OF SE
RIPY COUNCIL Ecc	30		30	25	-	25	15		15
JBLIC WORKS	5	110	115		115	115		2	
PM-PTS	5	110	115		115	115		42	1010
CMHC Egional Econo	MIC EVDON	341	341		505	505		500	500
CIENCE AND TE	CHNOLOGY								
BT NRC	1,358	528	1,886	1,553	485	2,038	1,895	534	2,429
NRC-SIR	1,965		1,965	2,249		2,249	2,722		2,722
ASERC SC	1.516	1,711	3,227	1,820	2,076	3,896	1,987	2,321	4,308
BORETARY OF S	TATE		,	1 -		8 fm	4		τ.
DEICITOR GENE EGEN	RAL	50	50		50	50		50	50
SGEN-ADM		50	50		50	50		50	56
JPPLY AND SER Stean	VICES	81	81		121	121	-	109	109
ANSPORT	72.4							100	
TPT-ADM	74	33	77		3	33	And Table Aller		6
TPT-MAR	74		74			0			6
ITC HEASURY BOARD	25		25	25		25	25		25
			P		10 100				
OTOL.	49.14I	8.330	57,471	57.364	10.129	67.193	63.790	11.258	75 Q6

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

OTHER, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT OR		1980-81	1 - 110 also and 100 and 100 -	we use the this and the use w	1981-82			1982-83	
AGENCY	R& D		TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
		ng nga pan ang ang ang ang ang ang ang ang a		die det filt als we we hit we de als we t	in men blan dans war war war war war dan			na dhe 470 dhe alle ann dar ann alle agu	
AGRICULTURE	tast new with	1,741	1.741	-	917	917		an -10 an	Ø
AGR-DEV CLFB	17	1,741	1,741	10	917	917 10	 20	400 AAA - 4444	20
COMMUNICATIONS							20		
COMM-COMM		14	14 14			0			0
CRTC	34	The same size	34	85		85	75		75
NMUS CONSUMER AND CC	278 RPORATE #	I,192 AFFAIRS	1,470	301	1,223	1,524	219	1,221	1,449
CCA CCA-ADM	381	81	462 Ø	493 458	215	708 458	502 502	330	832 582
CCA-CON	375		375			Ø	and see an	and our tills	Ø
CCA-COR CCA-CICP	6	81	6 81	35	215	250		330	0 330
CONOMIC DEFELC MPLOYMENT & IM	PMENT	4							
CEIC		1,427	1,427			2			0
NERGY MINES & EMR	RESOURCE: 1,060	63	I.123	1,932	37	1,969	2,334	37	2,371
EMR-MES	1,960	63	1,123	1,932	37	1,969	2,334	37	2,371
AECB AECL	20 334	the over our	20 334	130		49 130	80 139		80 139
NEB ENV1RONMENT		12	12		33	33			9
ENV	512	2,454	2,966	778	2,672	3,450	880	2,726	3,606
ENV-ES ENV-EPS	389 57	2,385 40	2,774 97	643 285	2,596 47	3,239 332	729 285	2,641	3,370 332
ENV-AES	121	1,849	1,970	99	2,002	2,101	109	1,988	2,097
ENV-ECS ENV-FOR	207	496	703	245 14	547	792 14	269 66	606	875 66
ENV-PC EXTERNAL AFFAIR	123	69	192	135	76	211	151	85	236
IDRC	318	149	467	265	125	390	322	153	475
IJC FINANCE		79	79		114	114		202	202
ISHERIES AND C									
F&O-FM	330 330	423 423	753 753	343 343	854 854	1,197 1,197	424	1,009 1,009	1,433
INDIAN AFFAIRS	& NORTHE	RH DEVELOP	TENT						
IAND-IIA	238		258 Ø	129	300 300	429 300	52	320 300	372 300
IAND-NA INDUSTRY TRADE	238	20	258	129		129	52	20	72
1 TC	312		312	143		143	143	40.000 ***	143
ITC-TI JUSTICE	312		312	143		143	143	the are and	143
JUST	443	179	622	891	206	1,097	1,315	325	1,640
JUST-ADM LRC	443 667	179	622 667	891 1,073	296	1,097 1,073	1,315	325	1,640
LABOUR LAB	7	55	62	8	60	68	9	68	77
NATIONAL DEFENC	E								
NDEF-SER	74 74		74 74	69 69		69 69	86 86		86 86
NATIONAL HEALT			207	15.1	171	505	Eco	102	
NHW-HSS	8	123 100	393 108	454 11	131 117	585 128	568	183 167	743 167
NHW-HP NATIONAL REVENU	262	23	285	443	14	457	560	16	576
PR1PY COUNCIL	14								
PUBLIC WORKS		97	97	the set of	29	29		100 -000 -000	Ø
PW-PTS		97	97		29	29			0
CMHC NCC		217	256 5	60 5	339	399 5	60	366	426 Ø
REGIONAL ECONON Science and tec		510N							
ST		2	2		1	I	web user mail	1	1
NRC-S1R	639 639	1,139	1,778 1,778	3,381 3,381	531 531	3,912 3,912	3,460 3,460	885 885	4,345 4,345
SC	179		179	262		262	300		300
SECRETARY OF 51 SECS	568	422	990	568	306	874	568	306	874
SECS-OL		172	0 172		16	874 16 290	****	16	16
SECS-CIT	568	250	818	568	290	290	568	290	29 0 568
SOLICITOR GENER SGEN	RAL	225	225		1,119	1,119	this way doe	619	619
SGEN-ADM		225	225		1,119	1, 119		619	619
SUPPLY AND SERV	442 /	111	553	542	68	602	540	60	688
SS-SUPP	442	111	553	542	60	602	540	60	600
STCAN TRANSPORT		9	9		fair are are	0	AND NOT AND	we was don	Ø
TPT	142 131	96 66	238	93 68	241 211 20	334	74 74	268	342
TP T-ADM TP T-MAR		20	197 20	68	20	279 20			312
TPT-SUR TREASURY BOARD	11	10	21	25	10	35		10	10
		+6 975		12.004					
TOTAL	7,304	10,335	17,639	12,064		21,577	13,393	9,079	22,472

FEDERAL EXFENDITURES ON RESEARCH AND DEVELOPMENT BY PERFORMER, 1980-1983

(\$ THOUSANDS)

1980-	31	1981-	82	1982-	83
\$	*	\$	*	\$	%
705,170	(52.8)	818, 445	(49.8)	968,116	(50.6)
240,468	(18.0)	341,917	(20.8)	394, 361	(20.6)
284, 587	(21.3)	347,278	(21.D	393, 577	(,20.6)
14, 572	(1.1)	17,908	C 1.D	21,448	(1.1)
33,850	(2.5)	48,361	(2,9)	60,008	(3.1)
49,141	(3.7)	57,364	(3.5)	63,799	(3,3)
				1,914,702	(100.0)
	\$ 705,170 240,468 284,587 14,572 33,850 49,141 7,304	\$ % 705,170 (52.8) 240,468 (18.0) 284,587 (21.3) 14,572 (1.1) 33,850 (2.5) 49,141 (3.7) 7,304 (0.5)	\$ % \$ 705,170 (52.8) 818,445 240,468 (18.0) 341,917 284,587 (21.3) 347,278 14,572 (1.1) 17,908 33,850 (2.5) 48,361 49,141 (3.7) 57,364 7,304 (0.5) 12,064	\$ X \$ X 705,170 (52.8) 818,445 (49.8) 240,468 (18.0) 341,917 (20.8) 284,587 (21.3) 347,278 (21.1) 14,572 (1.1) 17,908 (1.1) 33,850 (2.5) 48,361 (2.9) 49,141 (3.7) 57,364 (3.5) 7,304 (0.5) 12,064 (0.7)	\$ X \$ X \$

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY PERFORMER, 1980-1983

(\$ THOUSANDS)

PERFORMER	1980-81		1981-	82	1982-83		
	 \$	%	\$	%	\$	%	
INTRAMURAL	645,813	(82.1)	799,959	(83.2)	840,545	C 81.9)	
INDUSTRY	65,631	(8.3	75,140	(7.8)	88, 583	(8.6)	
UNIVERSITIES	35,369	(4.5	43,067	(4.5)	47,588	(4,6)	
NON-PROFIT INSTITUTIONS	7,975	(1.0	9,076	(0.9)	9,709	(0.9)	
PROVINCIAL & MUNICIPAL	12,709	(1.6	14,302	(1.5)	19,965	(1.9)	
FOREIGN	8,330	C 1.1	10, 129	(1.D	11,268	C 1.13	
OTHER CANADIAN	10,335	(1.3)	9,513	(1.0)	9,079	(0,9)	
TOTAL	786,162	(100.0)	961,186	(100.0)	1,026,737	(100.0)	

FISERAL INTERMORAL FOR EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

THOUSANDS)

DEPARTMENT		1980-81			1981-82	100 400 FEE may see any max are max are and		1982-83	and the and the first the days was after
OR GGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE	133,972	8,930	142,902	148, 842	9,618	158,460	174, 127	11,926	186,053
ACR-ADM ACR-DEV ACR-RI ACR-CGC	128,032 4,590 1,350	8,930 	136,962 4,590 1,350	142,086 5,103 1,653	9,618	151,704 5,103 1,653	164,229 7,981 1,917	11,926	176,155 7,981 1,917
CDC CLF3	51	20	71	61	10	71	77	40	
COMMUNICATION COMM-COMM COMM-COMM	41,740	18,954 18,954	60,694 60,694	49,669 49,669	27,114 27,114	76,783 76,783	51,905 51,905	9,985 9,985	61,890 61,890
CBC	534	 68	602	519			569		819
HFB	382		382	427		427	497	200	497
HL I B HMUS	2,613	278	2,891	5,458	301	5,759	6,198	219	6,417
PA SSHRC CONSUMER AND	2,054	23,514	25,568	2,269	25,605	27,874	2,998	32,728	35,726
CCR CCR CCR-ADM	2,020	642	2,662	2,601	I,022 987	3,623	3,543	1,094	4,637
CCH-CON CCH-COR CCH-CICP	852 705 463	559 83	1,411 788 463	556	35	591	782	400 000 100	782
BCONDMIC DEVE						001	1 UL		T O Iac
EMPLOYMENT &		N 63	1 500		10	1 422	1 510		1 500
EI-ADM CEIC	1,465 1,465		1,528	1,428 1,428	49 49	1,477	1,518	50 50	1,568
EHERGY MINES EMR EMR-ENER EMR-MES AECB AECL NEB	& RESOURCE 72,902 420 72,482 240 68,819 	57,143 45,431 11,712 535 10,029	130,045 45,851 84,194 775 78,848	91,682 1,045 90,637 270 82,431	82,555 64,706 17,849 829 13,771	174,237 65,751 108,486 1,099 96,202	119,151 3,184 115,967 311 95,428	95,321 71,975 23,346 1,760 15,077	214,472 75,159 139,313 2,071 110,505
ENU/IRONMENT ENU/-ADM ENU/-ES ENU/-ES ENU/-ES ENU/-ECS ENU/-ECS ENU/-FOR ENU/-FOR ENTERNAL AFFA	67,927 399 67,419 2,306 18,091 16,229 30,793 109 IRS	20,249 19,892 3,082 769 1,304 14,737 357	88,176 399 87,311 5,388 18,860 17,533 45,530 466	78,901 432 78,350 2,398 21,796 17,572 36,584 119	22,502 22,110 2,950 831 1,463 16,866 392	101,403 432 100,460 5,348 22,627 19,035 53,450 511	97,757 475 97,150 2,923 25,923 20,268 48,036 132	22,911 22,472 4,185 884 1,620 15,783 439	120,668 475 119,622 7,108 26,807 21,888 63,819 571
EA EA-CIA									
CIDA IDRC IJC	37Ø 7,298	9,674 25,872	10,044 33,170	436 8,655	10,879 29,182	11,315 37,837	471 10,702	12,375 35,882	12,846 46,584
F INANCE F IN		Anati wale wast			an ***		400 AND 100	Marco Johns Graph	
FIN-FEP FISHERIES AND	OCEANS								
F&O F&Ø-FM	51,034 51,034	6,475 6,475	57,509 57,509	55,725 55,725	8,286	64,011 64,011	54,054 54,054	10,859 10,859	64,91 3 64,913
INDIAN AFFAIR	2,013	1,410	3,423	2,296	1,452	3,748	2,332	1,826	4, 158
IAND-IIA IAND-NA INDUSTRY TRAD	2,013 E AND COMM	1,410 IERCE	3,423	2,294	I,452	3 ,746	2,319	1,826	13 4, 145
ITC ITC-TI ITC-TOUR ITC-GO	6,338 6,197 91 50	87,851 86,517 156 1.178	94,189 92,714 247 1.228	7,183 7,028 100 55	132,160 130,906 171 1.083	139,343 137,934 271 1,138	8,681 8,521 100 60	159,947 158,776 171 1,800	168,628 167,297 271 1,069

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

N D D A D PLATE LET		1980-81		ar ana mar pa mir nin an an an an an an an	1981-82	ner me me syn hill som tilt det det det det		1982-83	the set of the set of the day day for
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE	the first this and one did over over this to	in allah anah oleh oleh univ rangi rangi rangi dalah de							
JUST JUST-ADM JUST-CUIO	677 677	1,273	1,950 1,950	1,013 1,013	2,009 2,009	3,022 3,022	1,825 1,825	3,027 3,027	4,852 4,852
CHRC LRC	246	667	913	387	1,080	1,467	511	1,239	1,750
LABOUR LAB NATIONAL DEFE	411 NCE	192	603	452	210	662	509	236	7 45
NDEF NDEF-SER NATIONAL HEAL	71,752 71,752	28,741 28,741	100,493 100,493	73,515 73,515	36, 109 36, 109	109,624 109,624	81,938 81,938	54,985 54,985	136,923 136,923
NHW NHW-ADM NHW-HSS NHW-MS NHW-HP	14,556 1,527 938 1,745 10,346	13,012 150 11,638 341 883	27,568 1,677 12,576 2,086 11,229	16,635 1,996 1,071 2,918 10,650	15,169 165 12,237 1,000 1,767	31,804 2,161 13,308 3,918 12,417	18,346 2,337 1,109 2,167 12,733	14,229 185 11,386 2,658	32,575 2,522 12,495 2,167 15,391
NHW-IS MRC	1,435	78,026	79,461	1,618	95,231	96,849	1,821	107,325	109,146
NATIONAL REVE NREV NREV-TAX	827 827		827 827	828 828	were seen, sinds	828 828	796 796	900 000 000	796 796
PRIVY COUNCIL		549	549		589	589	466 ann 600	89	89
COL ECC PUBLIC WORKS	6,486	533	7,019	5,950	490	6,440	6,319	495	6,814
PW PW-PTS CMHC NCC	1,318 1,318 3,000	2,942 2,942 1,573 10	4,260 4,260 4,573 10	353 353 3,550	1,055 1,055 2,497 16	1,408 1,408 6,047 16	777 777 3,890	1,603 1,603 2,605 10	2,380 2,380 6,495 10
REGIONAL ECON REE SCIENCE AND T	820	15 I ON 52	872	1,011	60	1,071	1,198	60	1,258
ST NRC NRC-S1R	126, 182 126, 182	1,358 63,795 63,795	1,358 189,977 189,977	153, 342 153, 342	1,553 101,655 101,655	1,553 254,997 254,997	194, 891 194, 891	1,895 117,557 117,557	1,895 312,448 312,448
NRC-STI NSERC SC	2,677 1,112	143,561 386	146,238 1,498	3,450 1,307	176,573 605	180,023 1,912	4,548 1,511	197,936 690	202,484 2,201
SECRETARY OF SECS SECS-OL SECS-ES	2,378	3,467 480	5,845 480	2,950	3,042 509	5,992 509	2,608	3,807 724	6,415 724
SECS-TRA SECS-CIT PSC	2,378	490 2,497	2,868 2,497	2)950	250 2,283	3,200 2,283	2,608	500 2,583	3,108 2,583
SOLICITOR GEN SGEN SGEN-ADM RCMP	775 775	1,640 1,640 71	2,415 2,415 71	938 938 150	2,075 2,075 145	3,013 3,013 295	938 938 150	2,075 2,075 150	3,013 3,013 300
SUPPLY AND SE SS SS-SUPP STCAN TRANSPORT	88 88 5,828	12,295 12,295	12,383 12,383 5,828	97 97 8,108	12,477 12,477	12,574 12,574 8,108	106 106 9,324	12,477 12,477	12,583 12,583 9,324
TPT TPT-ADM TPT-ADM TPT-AIR TPT-AIR TPT-SUR CTC TREASURY BOAR	1,691 696 602 303 90 1,139	3,659 2,904 -719 36 300	5,350 3,600 1,321 303 126 1,439	2,846 1,223 945 583 95 1,092	6,274 4,361 1,864 49 370	9,120 5,584 2,809 583 144 1,462	4,429 1,192 2,024 1, 0 48 165 1,362	11,348 4,877 6,421 50 370	15,777 6,069 8,445 1,048 215 1,732
TB TB-ADM		113 113	113 113	vich data app	113 113	113 113		128 128	128 128
TOTAL	705,170	629,922	1,335,092	818, 445		1,643,337	968,116		1,914,702

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN INDUSTRY BY DEPARTMENT OR AGENCY, 1980-1983

DEPARTMENT	19	80-81		81-82	19	82-83
OR AGENCY	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
AGRICULTURE						
AGR	and with few	3,060		3,764		5,082
AGR-ADM AGR-DEV		3,060		3,764		5,082
AGR-RI	and safe safe	3,000		0)104	una ada ada	57602
AGR-CGC						
CDC			unto here raite	unare unare realize		
CLFB		400 mm mm	ware data and	ality part error		20
COMMUNICATIC COMM	9,424	6,966	12,452	10,370	2,865	6,160
COMM-COMM	9,424	6,966	12,452	10,370	2,865	6,160
COMM-AC		and and		and the second		
CBC						50
CRTC NFB						
NLIB						
NMUS	www.data.units	appay minis willing	ways which that			want man out-
PA		Adda with the				
SSHRC CONSUMER AND						
CCA		122		209		233
CCA-ADM				209		233
CCA-CON		99 23				
CCA-COR CCA-CICP		C J				4100 March 4868
ECONOMIC DEL	ELOPMENT					
ED				and the state		
EMPLOYMENT 8	IMMIGRA	7 TION		49		50
EI-ADM		7		49		50
CEIC						Parameter Parameter Parameter
ENERGY MINES			10 702	10 007	11,637	14, 417
EMR EMR-ENER	16,274	4,929 331	16,302	10,827	11,637	3,848
EMR-MES	107214	4,598		8,546		10,569
AECB		270		411		1,100
AECL		7,655		11,155		12,248
NEB ENVIRONMENT	appr made shad					
ENV	3,600	9,656	3,600	10,531	2,300	9,986
ENV-ADM				10 750		
ENV-ES ENV-EPS	3,600	9,500	3,600	10,359	2,300	9,793 3,435
ENV-AES		C, 10C				
ENV-ECS		198		208		258
ENV-FOR	3,600	7,200	3,600	7,951	2,300	6,100
ENV-PC EXTERNAL AFI	COIPS	156		172		193
EA						and adda too
EA-CIA				and also also		
CIDA						
I DRC IJC					factor with shire	
FINANCE						
FIN						And 0000 0000
FIN-FEP	UD OCEONS					na om de
FISHERIES AN F&O	ND OCEANS	3,350		5,238		7,092
F&Ø-FM		3,350		5,238		7,092
INDIAN AFFA		RTHERN DEVEL	OPMENT	0.01		500
IAND IAND-IIA	184	238	nam nam nam	261		588
IAND-NA	184	238		261		588
INDUSTRY TRA	ADE AND	COMMERCE			1.000	
ITC TI	84,184	156	128,095	171	155,883 155,283	171
ITC-TI ITC-TOUR	83,416	156	127,413	171	100,285	171
ITC-GO	768		682		600	

TABLE 16 CONT'D

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT

IN CANADIAN INDUSTRY

BY DEPARTMENT OR AGENCY, 1980-1983

(\$ THOUSANDS)

DEPARTMENT OR	19	80-81		81-82	1982-83		
AGENCY	GRANTS	CONTRACTS			GRANTS	CONTRACT	
JUSTICE							
JUST	shifts affine and ap						
JUST-ADM				-HER Salas Ireal			
JUST-CUIO				and which which			
CHRC			000 040 040	West water were	And and the		
LRC .ABOUR				www.amm.www			
LAB ATIONAL DEF	35 ENCE	10	38	1 1	43	12	
NDEF		22,972	which reary which	29,708		47,093	
NDEF-SER ATIONAL HEA		22,972		29,708		47,093	
NHW	48	I73	75	245	75	340	
NHW-ADM							
NHW-HSS	48	158	75	142	75	195	
NHW-MS				www.mann.www			
NHW-HP	And 100 000	15	www.mana.mana	103	wheth data mean	145	
NHW-IS	mana taran mana	mana mana mpinji	and state and	artitis involu-social			
MRC IATIONAL REP	ENHE	Bank John Will	were many were	and the star		100 mm	
NREV		nana mana mana				man to a such	
NREV-TAX	T	tions and anno	1000 0.000 0.000	100 and 100		100 100 cm	
PC COUNCI	L.			AND 000 vvv			
COL		1000 JOHN 1000	4000 1000 1000		-		
ECC	man very unit	296		300	mana mana mana	300	
UBLIC WORKS		2,937		1,045	-	1 557	
PW-PTS	test test sen	2,937		1,045	dalla suna suna	1,553	
CMHC	48	1,297	75	2,075	75	2,170	
NCC				weath many many			
EGIONAL ECO REE	HOMIC EX			0.0			
CIENCE AND	TECHNOLO		diller sloter savas.	60		60	
ST HRC	22,088	23,932	35,460	38,630	45,652	40,123	
NRC-SIR	22,088	23,932	35,460	38,630	45,652	40,123	
NRC-STI							
NSERC			10.000 10.000 10.000				
50		152		247		282	
ECRETARY OF							
SECS	anne anne mane		and with the	which were were	Note that we have	mana mana mpop	
SECS-OL		and approximate	within finder sense	were man man		www.mana.mana	
SECS-ES SECS-TRA		open som oppy	www.ubite auto	THE DEL AND	000 VIII -000-	over mone mone	
SECS-CIT					well user man		
PSC		mana dend mana		www.unan.imit			
OLICITOR GE	NERAL						
SGEN		635		833	were some over	850	
SGEN-ADM	-	635		833		850	
REMP		42	www.apan.amp	60		90	
UPPLY AND ST	ERVICES	10.047		10 505			
SS-SUPP		10,647 10,647	1999 - 1999 - 1999	10,765		10,767	
STCAN	····	10,041	1000 miles miles	10,765		10,767	
RANSPORT							
TPT		3,240	man store supp	5,816	AND ADD AND	10,849	
TPT-ADM		2,595	-	3,952	first gaug symp	4, 428	
TPT-MAR		645		1,864		6,421	
TPT-AIR		with weat some	went men men	these mana mana		and the state	
TPT-SUR	man man man			100 100 des	which make make		
CTC Reasury boai	PD	150	and and am	200	670 - 010 - Nov	200	
	кD 		man were then		and and address		
TB-ADM		And any opp-			1999 - 1990 - 1994		
		ways also have some some some nore some some some some store		142,981			

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NATURAL AND HUMAN SCIENCES

TABLE 17

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1980-1983

DEPARTMENT		80-81	19	81-82	1982-83		
OR AGENCY		CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS	
AGRICULTURE	1,373	2,776	1,386	3,485	1,386	4,849	
AGR-ADM		Sector report many					
AGR-DEV AGR-RI	1,373	2,776	1,386	3,485	1,386	4,849	
AGR-CGC CDC		ware over even					
CLFB		3				and much what	
COMMUNICATIO COMM	25	950	25	1,000	25	935	
COMM-COMM COMM-AC	25	950	25	1,000		935	
CBC							
CRTC NFB	34	dana nanti dana	75	unto man man	100	25	
NL I B NMUS				Aller ware suit			
PA		4444 AMM					
SSHRC CONSUMER AND	18,235 CORPORA	TE AFFAIRS	19,700		26,085		
CCA		85		258 258	4920 - 4920 - Anim	291 291	
CCA-ADM CCA-CON	and the same	31					
CCA-COR CCA-CICP		54					
ECONOMIC DEV	ELOPMENT						
ED EMPLOYMENT &	IMMIGRA	TION	tink Ann West	AAAA AAMA WYN		which many many	
EI EI-ADM			4445 4465 5000	www.amm.amm.		angia mita uman	
CEIC					angle angle 1000	-	
ENERGY MINES EMR	2,127	1,627	3,355	2,889	4,082	3,036	
EMR-ENER EMR-MES	191	41	1,840	2,889	2,240	3,036	
AECB	1,030	222	1/010	369	17042	560	
AECL NEB		1,781	6100 0400 mmm	1,900	and the second	2,136	
ENVIRONMENT	897	5 000	1,326	5,779	2,278	6,982	
ENV-ADM		5,090					
ENV-ES ENV-EPS	897	5,013 751	1,326	5,695 390	2,278	6,888 390	
ENV-AES	283	344	300	432	300	475	
ENV-ECS ENV-FOR	247	580 3,338	234 792	662	234	733 5,290	
ENV-PC External AFF	ATRS	77		84	and water and	94	
EA		1999 1999 1999	200 MM 446				
EA-CIA CIDA			and and and			100 - 100	
IDRC IJC	530	allo fano 470	944		1,927	ana ana iku	
FINANCE							
FIN FIN-FEP				and and and		ante entre dest	
FISHERIES AN F&O	D OCEANS	2,060	510	2,166	510	2,769	
F&Ø-FM	585	2,060	510	2,166	510	2,769	
INDIAN AFFAI IAND	RS & NOF 397	THERN DEVEL(353	OPMENT 697	365	802	384	
IAND-IIA				with many server		and work man	
IAND-NA INDUSTRY TRA	397 IDE AND C	353 OMMERCE	697	365	802	384	
ITC ITC-TI	2,041		3,751 3,350		3,750		
ITC-TOUR				and and dite	andre some spelle		
ITC-GO	410	and was and	401	anjin masa, sisti	400	and many summ	

TABLE 17 CONT'D

NATURAL AND HUMAN SCIENCES

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1980-1983

DEPARTMENT	19	80-81	19	81-82	19	82-83
OR AGENCY	GRANTS	CONTRACTS	GRANTS	CONTRACTS		CONTRACTS
JUSTICE JUST JUST-ADM JUST-CUIO	611		700 700		420 420	
CHRC LRC				700 100 100		8
LABOUR LAB NATIONAL DEF	75 ENCE	65	82	71	92	80
NDEF NDEF-SER NATIONAL HEA		2,805 2,805		4,210 4,210		5,026 5,026
NHW NHW-ADM NHW-HSS NHW-MS	10,714 150 10,542	503 34	11,492 165 11,312	346 34	10,547 185 10,347	1,206
NHW-HP NHW-IS	22	469	15	312	15	1,100
MRC NATIONAL REV NREV	72,216 'ENUE 		88,092	High spin, down	99,280	andre divers shalls
NREV-TAX PRIVY COUNCI PC	L 549			Mall Adds along		
COL ECC	danis with with	207		165		180
PUBLIC WORKS PW PW-PTS		-		10 10	door units south	10 10
CHIHC	23	113	42	155	55	155
REGIONAL ECC NEE SCIENCE AND				vers and lost	were were land	
ST NRC HRC-SIR NRC-STI	13,642 13,642	1,461 1,461	18,199 18,199	3,059 3,059	22,201 22,201	2,640 2,640
NGERC SC	138,333	48	166,551	84	184,562	94
SECRETARY OF SECS SECS-OL SECS-ES	2,409 480	490	2,224 509	250	2,739 724	500
SECS-TRA SECS-CIT PSC	1,929	490	1,715	250	2,015	500
SOLICITOR GE SGEN SGEN-ADM ECMP	340 340	565 565 29	375 375	729 729 85	375 375	712 712 60
SUPPLY AND S SS-SUPP STCAN TENNSPORT		1,206		1,170 1,170	2003 dollo alua 2008 una reve 2009 alua tabé	1,170 1,170
TPT-ADM TPT-ADM TPT-MAR TPT-AIR	25 	175 175	24	341 341	50	375 375
TPT-SUR CTC TREASURY BOA	25	125	24	145	50	145
TB TB-ADM	113 113		113 113	WHEN YOUR LANS	128	
TOTAL	265,294	22,739	320,252	29,038	361,483	34,328

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

DEPARTMENT		1980-81			1981-82			1982-83	
OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL		TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE						o nor old our our our dat with the set of			to see any eve way and may page hits
AGR AGR-ADM	7,722	1,745	9,467	9, 103 4, 783	959	10,062 4,783	9,949 5,084	67	10,016
AGR-DEV	1,993	1,741	3,734	2,462	955	3,417	2,596	63	2,659
AGR-RI AGR-CGC	1,529	4	1,533	1,858	4	1,862	2,269	4	2,273
CDC	18	598	1,5 33 59 8 18	21	2,200	2,200		2,500	2,500
CLFB COMMUNICATION	IS				and all all		23	3	28
COMM	4,222	1,063 791		4,291 3,742	1,209	5,500	4,426 3,976	1,225	5,651
COMM-COMM COMM-COMM	3,031	272	4,628 657 3,636	549 1,867	434	983	450	86Ø 365	4,836 815
CBC	1.738	1,898	01000	A. 7 CO CO 4	2,175	4,042	2,123	2,484	4,607
CRTC NFB NLIB NMUS PA	252		252	176	mage felles man	176	200		200
NLIB	17,225	20	17,245	21,536	73	21,609	25,796	46	25,842
PA	10,817	9,651	51,124	42,943	9,953	52,896	44,657	10,719	55,376
PA SSHRC		14,862	16,810	2,182	16,545	18,727	2,330	18,620	20,950
CONSUMER AND CCA	14,601	AFFAIRS 161	14,762	15,030	465	15,495	17,908	630	18, 538
CCA-ADM	angen wante wante	see with the				Aller Aust ment			
CCA-CON	2,170		2,170	2,435		2,435	2,850		2,850
CCA-COR CCA-CICP	56	161	217	12,537 58	465	12, 537 52 3	177	630	807
ECONOMIC DEVE	LOPMENT	150	1,677		150	2,038	2,343	150	2,493
ECONOMIC DEPE ED EMPLOYMENT & E1	IMMIGRATIO	N							
EI	7,173	828 828	8,001	7,305 7,305	820 820	8,125	7,754	858	8,612
CEIC	4,573	3,185	7,758	8,436		9,255	7,326		8,126
ENERGY MINES EMR	& RESOURCE 42,520	S 6,494	49,014	47 044	7,618	EE 400	55,102	10,906	66,008
EMR-ENER	I,819	858	2,677	47,844	2,682	4,591	2,592		6,433
EMR-ENER EMR-MES	40,701	5,636	46, 337	45,935	4,936	55,462 4,591 50,871	52,510	7,065	59,575
AECB AECL	5,310	12,614	17,924	5,528	12,452	17,980	7,154	14,725	21,879
NEB ENVIRONMENT	1,677	12	1,689	2,143	33	2,176	2,190		2,190
	149,604	9,370	158,974	167,145	10,470	177,615	202,547	10,888	213,435
ENV-ADM ENV-ES	1,441 136,317	9,070	1,441	1,497	10,139	1,497	1,645	10,520	1,645
ENV-EPS	3,047	325	3,372	2,535	287	2,822	2,605	287	2,892
ENV-AES	3,047 93,740	3,233	96,973	107 744	3,736	111,480	134,380	3,563	137,943
ENV-ECS ENV-FOR	34,780		40,292 4,750	37,495 4,843		43,611 4,843	5,543	6,610	50,554
ENV-PC	11,846	300	12,146	13,031		13,362	2,605 134,380 43,884 5,543 14,490	368	14,858
EXTERNAL AFFA	4.317	1,612	5,929	4,888	1,762	6,650	5,282	1.938	7,220
EA-CIA	4,317	1,612	5,929	4,888	1,762	6,650	5,282	1,938	7,220
CIDA IDRC	4,754	24,619 1,874	26,447		27,079	29,060 8,202	2,339	29,789	32,128
IJC	4,317 1,828 4,754 2,249	79	2,328	2,657	114	2,771	2,786	202	2,988
FINANCE	8,514		8,514	10,077		10,077	12,613		12,613
F IN-FEP	8,514	unit alle date	8,514	10,077		10,077	12,613		12,613
FISHERIES AND F&O	OCEANS 56,053	2,841	58,894	61,500	4,460	65,960	73, 417	7,463	80,880
F&0-FM	56,053	2,841	58,894	61,500	4,460	65,960	73, 417	7,463	80,880
INDIAN AFFAIF	1,442	RN DEVELO	PMENT 1,534	1,741	933	2,674	1,870	870	2,740
IAND-IIA			6-10 1999	78	300	378	82	300	382
IAND-NA	1,442	92 EDCE	1,534	1,663	633	2,296	1,788	570	2,358
INDUSTRY TRAD	DE AND COMP 98	3,203	3,301	108	4,095	4,203	108	4, 578	4,686
		3,203	3,203		4,095	4,095		4,578	4,578
ITC-TI ITC-TOUR	98	37203	98	108		108	108	17 07 0	108

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81		the side off whe his is you use our with in a	1981-82	hall field only anno any stop tour with days, they defin	that files not not rea, one run not not one one the	1982-83	
OR	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE JUST JUST-ADM JUST-CUIO CHRC LRC LABOUR	1,820 268 1,552 304 296	511 511 257	2,331 779 1,552 304 553	2,438 338 2,100 288 302	552 552 580	2,990 890 2,100 288 882	2,486 386 2,100 325 359	776 776 829	3,262 1,162 2,100 325 1,188
LAB NATIONAL DEFE	3,035	175	3,210	3,339	191	3,529	3,763	216	3,979
NDEF NDEF-SER NATIONAL HEAL	1,953	125 125 FARE	2,078 2,078	2,239 2,239	163 163	2,402 2,402	2, 48 9 2,489	158 158	2,647 2,647
NHW NHW-ADM NHW-HSS NHW-MS	30,291 2,727 722	5,953 1,570 3,958	36,244 4,297 4,680	33,832 3,830 908	6,978 2,070 4,527	40,810 5,900 5,435	40,667 4,407 911	7,669 2,070 5,160	48,336 6,477 6,071
NHW-115 NHW-HP NHW-IS MRC NATIONAL REVE	26,311 531 121	425	26,736 531 2,570	28,482 612 139	381 3,179	28,863 612 3,318	34, 432 917 155	439 3,583	34,871 917 3,738
NREV NREV-TAX PRIVY COUNCIL	3,659 3,659		3,659 3,659	9,890 9,890	449 van Ant	9,890 9,890	6,190 6,190	400 600 mar	6,1 90 6,190
PC COL ECC PUBLIC WORKS	975 1,011	000 800 800	975 1,011	1,172 952	allia ana daya	1,172 952	3,097 1,000	alaha alaha alaha asara asara Alaha dina dasar	3,097 1,000
PW PW-PTS CMHC NCC	2,626 2,626 5,308 203	1,424 1,424 2,699 39	4,050 4,050 8,007 242	5,158 5,158 5,475 381	1,091 1,091 4,293 190	6,249 6,249 9,768 571	4,731 4,731 5,999 494	1,027 1,027 4,392 130	5,758 5,758 10,391 624
REGIONAL ECON REE SCIENCE AND T		1,611	1.611	4-1- dast dast	2,216	2,216		7,027	7,027
ST NRC	6,472 33,619 18,961 14,658 669 1,392	532 2,506 2,506 15,964	7,004 36,125 21,467 14,658 16,633 1,392	7,549 40,020 21,496 18,524 862 1,630	486 2,357 2,291 66 20,918	8,035 42,377 23,787 18,590 21,780 1,630	8,382 45,578 23,987 21,591 1,138 1,846	535 2,666 2,592 74 23,459	8,917 48,244 26,579 21,665 24,597 1,846
SECRETARY OF SECS SECS-OL SECS-ES SECS-TRA SECS-CIT		864 302 172 390	3, 228 373 139 2, 253 463	2,774 91 415 2,191 77	1,251 216 290 745	4,025 307 415 2,481 822	2,845 91 465 1,937 352	1,681 216 430 290 745	4, 526 307 895 2, 227 1, 097
PSC SOLICITOR GENI SGEN SGEN-ADM	ERAL 750 750	I,010 1,010	1,760 1,760	872 872	1,784 1,784	2,656 2,656	872 872	1,284 1,284	2,156 2,156
RCMP SUPPLY AND SE SS SS-SUPP STCAN TRANSPORT	RVICES 19 19 138, 216	2,551 2,551 90	2,570 2,570 138,306	20 20 221,736	2,523 2,523 121	2,543 2,543 221,857	22 22 177,786	2,523 2,523 109	2,545 2,545 177,895
TPT TPT-ADM TPT-MAR TPT-AIR TPT-AIR TPT-SUR CTC TREASURY BOAR	7,311 833 6,464 9 1,191	4,490 1,653 728 2,099 10 128	11,801 2,486 7,192 2,104 19 1,319	7,058 1,357 5,518 157 26 1,145	5,185 2,472 600 2,103 10 108	12,243 3,829 6,118 2,260 36 1,253	2,936 1,925 866 119 26 1,415	5,237 2,630 600 1,997 10 108	8,173 4,555 1,466 2,116 36 1,523
TB TB-ADM	10,553 10,553		10,553 10,553	12,814 12,814		12,814 12,814	15,316 15,316		15,316 15,316
TOTAL	645,813	140,349	786, 162	799,959	161,227	961,186	840,545	186, 192	1,026,737

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1980-81 (FULL-TIME EQUIVALENT PERSON-YEARS)

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & Foreign Service	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AGRICULTURE		1 2 12	107	1.0.10		1 202		1.010
AGR AGR-ADM	5	1,042	123	1,048	433 46	1,367		4,018
AGR-DEV	. 5	943 40	100	936 53	375	1,327		3,686
AGR-RI AGR-CGC		18	1	55	8	2		84
CDC CLFB	0	1		AND. 477				2
COMMUNICATION	S		25	150	11.4	00		670
COMM COMM-COMM	17	246	75 74	152 152	114	66 66		670 660
COMM-AC		7	1		2			10 57
CBC CRTC	4	19	1 5	31	6		444 444 444	17
NFB	2	192		8 46	220 1	2		12 500
NLIB NMUS	8	102	204	281	161	250	ana (da) 100	1,006
PA SSHRC		113	3 50	68	82	water state state.		266 105
CONSUMER AND	CORPORATE AL	FFAIRS				-		4.40
CCA CCA-ADM	4	209	21	28	175			440
CCA-CON	1	25	10	26	10	3		75 351
CCA-COR CCA-CICP	1	175	11	2	161 4		AND 470 470	14
ECONOMIC DEVE		9	5	dans with stile	7			33
ED EMPLOYMENT &	12 IMMIGRATION	9						
EI-ADM	6	80 80	8	26 26	61 61			181
CEIC	stars who must	86	9	11	58			164
ENERGY MINES EMR	& RESOURCES	983	93	874	356	166		2,484
EMR-ENER	3	52	-		4		ALC: 0/07 0/07	58
EMR-MES AECB		932	93	874	352 1	166	400 444 444	2,426
AECL	17	643		849	315	570	1000 (MA) (MI)	2,394 50
NEB ENVIRONMENT	1	32		6				
ENV	44	1,621	392 13	2,021	714 24	123		4,915
ENV-ADM ENV-ES	44	1,532	373	1,947	657	118		4,670
ENV-EPS ENV-AES	2	78 635	171	55	15 350	10 31		162
ENV-ECS	8	354	167	256	286	77		1,148
ENV-FOR ENV-PC	13	465	32	509 74	6 33	5		1,025
EXTERNAL AFFA								99
EA EA-CIA		? 7	64 64		28 28			99
CIDA	17	8 71	28 9	3 48	17 84			57 218
IDRC IJC	7	11	4	40	20			45
FINANCE FIN	9	118	19	24	38			208
FIN-FEP	9	118	19	24	38		4400 4400 5700	208
FISHERIES AND F&O	OCEANS 5	868	90	784	1.47	249		2,143
F&O-FM	5	868	90	784	147	249	New area disk	2,143
INDIAN AFFAIR	S & NORTHER	N DEVELOPMENT	8	9	6	4	bet with any	82
IAND-IIA					970 ALL ALL	4494 Amer (1712)		
IAND-NA INDUSTRY TRAD	E AND COMME	54 RCE	8	9	6	4		82
ITC		3	109	649 489 ALL	54	1		167
ITC-TI ITC-TOUR		3	104		53	1		160 4
ITC-GO			2		1	4984 - 4949 - 5489		3

BY DEPARTMENT OR AGENCY, BY CATEGORY, 1980-81

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICOL	ADMINIS- TRATIVE		MILITODU	тота
	EXECUTIVE	FROFESSIONAL	JERVICE	TECHNICAL	SUPPORT	OPERATIONAL	MILITARY	101HI
JUSTICE JUST	4	9	0	1	4 P ^m			
JUST-ADM	3	9	9 3	1	15 10			38 26
JUST-CUIO	1		6	1, 	5			12
CHRC	÷	2	ž		1			5
LRC	1	1 m	4		31		Ann. Ann. 1981	36
LABOUR								
LAB	3	24	30	20	36	teler men takk	nn en en	112
ATIONAL DEFEN NDEF	12	551	116	487	2.40	371	105	1 070
NDEF-SER	12	551	116	487	248 248	271 271	185 185	1,870
ATIONAL HEALT			110	401	L. 40	for 1 - A	100	17010
NHW	13	653	47	365	239	18		1,334
NHW-ADM	4	50	5	27	55			108
NHW-HSS	3	18	10	1	18			50
NHM-MS	7	27			6			33
NHW-HP NHW-I5	Ø	552	27 5	333	190	18		1,126
MRC	5	6	8	4	24			17
ATIONAL REVEN		6	U		6 H			33
NREV	2	31	66	4	89		ANY with some	192
NREV-TAX	2	31	66	4	89			192
PRIVY COUNCIL								
PC				This was seen	44%			
COL	1		25		4			30
ECC	3	66	20	1 1	57		Annual Addition Annual	157
PUBLIC WORKS		45	7	9	1			0.7
PW-PTS		45	7	9	1		NUM AND AND	63 63
CMHC	10	79	3	44	27		and and the	163
NCC		4	1		Lans 1			5
REGIONAL ECONO	MIC EXPANSI	ON						0
REE	2	9	3	3	8			24
SCIENCE AND TE	CHNOLOGY							
ST	22	11	71	5	_50	2		161
NRC-SIR	5	1.109 1.050	207	958	583	296		3,158
NRC-STI		59	176 31	957 1	455 128	292	were were then	2,935
NSERC	4	1	29		41			75
SC	3	17	18	5	21		want oppy, being	64
SECRETARY OF S					A			04
SECS		3	134	2	53			192
SECS-OL		1				All 19 19 19 19 19 19 19 19 19 19 19 19 19	man seen seen	1
SECS-ES		2	2			um are ano		4
SECS-TRA SECS-CIT	NUME OF AN ADDR		131		53	ware man only		184
PSC				2				3
SOLICITOR GENE	RAL							
SGEN		26	2		10	1		39
SGEN-ADM		26	2		10	1		39
RCMP					no sur an		with they want	
SUPPLY AND SER			-					
S5 CURR	0		2	The will PTP	2	time white time		4
5S-SUPP STCAN	0 29	739	2 769	700	2 707			4 010
TRANSPORT	60	133	03	720	2,303	59	date dank waar	4,619
TPT	1	54	14	3	1 1			83
TPT-ADM	1	19	10	2	11			43
TPT-MAR		21	A ()			ware lapse with		21
TPT-AIR		12	4	1		1993). 1993) 1988)		17
TPT-SUR		2	an an an	shifts death forms				2
CTC	2	41	1	9	15		the set of	68
REASURY BOARD	21	1.4	177	2	10			0.15
TB TB-ADM	21 21	1 1 1 1 1	137	2	48 48			219
	1 <u>.</u>	1 1 	131		48			219
	310	10,018	3,080	8,971	7,076	3,448	185	33,088

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1981-82

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AGRICULTURE								
AGR AGR-ADM	7	1,060	130	1,164	439 47	1,379		4, 179
AGR-DEV	6	953	102	1,044	377	I, 339		3,821
AGR-RI AGR-CGC		51	1	55 58	4	38		149 92
CDC								
CLFB COMMUNICATIONS	0	1			1			5
COMM	17	248	.86	149	118	71		689
COMM-COMM COMM-AC	17	241	85	149	116	71		679 10
CBC	4	19	1	30	2			56
CRTC		22	5	4	5			16 10
NLIB	2	199	41	39	234	2		517
NMUS PA	9	103	195	270	176	222		975 279
SSHRC	4	2	50		49			105
CONSUMER AND CO	RPORATE AF	FAIRS 183	33	31	190	3		445
CCA-ADM	ž	16	6	5	12			41
CCA-CON CCA-COR	1	10	8	26	7 167	3		55 335
CCA-CICP	1	9		400 400 444	4			14
ECONOMIC DEVELO	PMENT 14	13	4		8			39
EMPLOYMENT & IM								
E I E I-ADM	6	85 85	8	21	50 50			170
CEIC	1	94	8	- 9	45			157
ENERGY MINES & EMR	RESOURCES 20	1,002	97	831	352	166		2,467
EMR-ENER	4	56			6			65
EMR-MES AECB	16	946	97	831	347	166		2,402
AECL	17	723		848	318	606		2,512
NEB ENVIRONMENT	1	30	100 AND 100	6	11			48
ENV	45	1,627	394	2,028	708	123	ann sum Oliv	4,924
ENV-ADM ENV-ES	45	15	13 374	1,954	19 655	118		47
ENV-EPS	2	77	3	55	15	10		161
ENV-AES ENV-ECS	21	635 354	171 167	1,129 256	348 286	31		2,335
ENV-FOR	14	469	33	514	6			1,037
ENV-PC EXTERNAL AFFAIR		77	7	74	33	5		196
EA		7	64		28 .			99
EA-CIA CIDA	1	7	64 32		28 17			99 57
IDRC	7	85	7	53	87			239
IJC FINANCE	7	10	4	4	21			46
FIN	11	145	21	24	35			236
FIN-FEP	11 CEONE	145	21	24	35			236
FISHERIES AND O F&O	8	925	89	784	157	310		2,273
F&O-FM		925	89	784	157	310	100 UK 100	2,273
INDIAN AFFAIRS	& HURTHERP	61	9	10	6	4		90
IAND-IIA		3						- 3
IAND-NA INDUSTRY TRADE	AND COMMER	S8 CE	9	10	6	4		87
ITC		3	109		54	1		167
ITC-TI ITC-TOUR		3	104		53			160
ITC-GO			2		1			3

BY DEPARTMENT OR AGENCY, BY CATEGORY, 1981-82

(PULL-TIME EQUIVALENT PERSON-YEARS)

PARTMENT		SCIENTIFIC &	ADMIN. & FOREIGN		ADMINIS- TRATIVE	n ner men men ner mer mer men men men men ere pro mer-	ne me ett me net me syn me an an an an an	
GENCY	EXECUTIVE	PROFESSIONAL	SERVICE	TECHNICAL	SUPPORT	OPERATIONAL	MILITARY	TOTA
USTICE								
JUST ODM	4 3	10	8	1	18			41
JUST-ADM JUST-CUIO	5	10	2	1	12			28
CHRC		3	2		1	ARE 104 104		6
LRC	- 3	1	5		32		one out tem	41
THECHR	-	0.1						
LAR MTICNAL DEFEN	3	24	31	20	37		and and and	116
HDEF	12	564	103	494	244	268	192	1,877
UEF-SER	12	564	103	494	244	268	192	1,877
FONAL HEALT								
HILL ODM	19	685	51	369	251	24		1,398
HH-ADM HH-HSS	7	53 19	6 12	32	23			121
HI-MS		27	16		15	MAA		53
HB-I-HP	9	578	30	334	201	24	Ann	1,175
1144-IS	0	8	4	2	2	mps and app		16
NPC DELONAT DEVEL	5	2	8		24			- 39
NOTIONAL REVEN	1015	36	71	2	420			E 40
EV-TAX	1	36	71	2	432 432			542 542
COUNCIL		00	1 4	lue .	406			0.16
PC			while solution from the					
COL	1		31		_7			39
HCC WBLIC WORKS	3	63	25	17	35	wait two with		143
FW FW		42	9	9	2	1992 1992 1993		63
PW-PTS	state state and	42	9	9	2			63
CMHC	10	76	3	43 1	28			160
NCC ROOM		3	1			en an an	1010 1000	- 4
EGIONAL ECONC REE	Z MIU EXPHNSI	8	3	3	7			
LENCE AND TE		0	3	3		and and and		22
5.Γ.	23	11	67	5	53	2		161
MRC	5	1,152	211	986	595	299		3,248
NRC-SIR NRC-STI	5	1,085	179	985	467	295		3,016
NSESC	4	67	32 31	1	128 45	4		232
St	5	16	18	5	21			81 65
ECRETARY OF S				0	to a			0.0
SECS	angen ange ange	3	129	2 1	49	mpp		183
SECS-OL		1			4000 - 1110 - 1110		they does made	1
SECS-ES SECS-TRA		2	8 120	100 00 100	40		more more under	10
SACS-CIT			120	2	49			169
PSC		45.0 \$15.0 min.				100 mm		
CLICITOR GENE	IRAL							
SGEN ODM	and the sec	26	2		10	1		39
SGUN-ADM RCHP		26	2	disk spec sole	10	1		39
UPPLY AND SER	VICES						THE DEC LOS	60 44 Au
SS	0	10.01 (0.00 (0.00)	2	many where there	2			4
SS-SUPP	0	10.00 allow with	2		2			4
ST AN	31	767	832	766	3,011	82		5,489
D.HSPORT TPT	1	50	1.4	4	7.1			
TPT-ADM	L.	59 19	14 10	4	I 1 I 1	man man one	and all approx	89 43
T-MAR	4 	29			1 1			29
TPT-AIR		9	4	2	MARE MADE. AMO	Salah waar waya	where states made	15
T-SUR		2	max 400				with the with	2
CTC DOOPD	2	42	1	1 1	12			68
REASURY BOARD	25	17	146	2	42	100 Aur 100		272
ADM	25	17	146	2	42	www must disk		232 232
	man man any man sum data and any burn shall been				"The			
OTAL	344	10,367	3,192	9,130	8,163	3,565	192	34,953

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BY DEPARTMENT OR AGENCY, BY CATEGORY, 1982-83

DEPRETHENT OR HGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL.
HGP. ICULTURE	9 (99) (40) any and and and bad blac blac and		ng gay dan ala kan kan dar van sek off de	o den ever enn ann han ann ann pair enn ann den an	ni dama shadi ayya anar mwa mwa mwa yana yadi kuta mwa		and all one over the block with a d part for 100, 400	and both this way way to be a to
495 B	32	1,040	109	1,051	422	1,372		4,026
REE-ADM NGE-DEV	32	38 933	31 76	929 929	46 361	1,332		3,663
P-RI R-CGC		51 18	1	55 60	4	38	and spine and	149 92
LFB	0	1	AND YOU YOU	and and to b	1	All and all and	MARY MARY RATE	2
COMMUNICATIONS COMM	17	256	86	168	127	79	www. www. 2005	733
COMM-COMM COMM-AC	17	249 7	85 1	168	126	79	MAR AND DO	724 9
CBC CRTC	4	19	1	30 5	2	And DFF all		56 15
HFB		3		8 40	1			12 526
NL IB NMUS	2	206 100	52 201	263	225	203	www.mate.ukide	1,000
PA SSHRC	$\frac{1}{4}$	113 2	3 50	79	85 49	ware more data	414 90.0	281 105
CONSUMER AND C	CORPORATE AF	FAIRS 190	35	31	182	3	water street street	446
CCA-ADM CCA-CON	2	19	5 11	4 27	12		844 day 1979	42 58
CCH-COR	1	152	Î9		160			332
ECONOMIC DEVEL		9						43
ED EMPLOYMENT &		14	5		9	agan alam termi		
EI EI-ADM	6	85	8	21 21	50 50	-000 -000 -000	alar -0-5 000	170 170
CEIC ENERGY MINES &	RESOURCES	94	8	9	45	and and	slate way with	157
EMR ENR-ENER	35 5	1,065	100	862	368	164		2,592 96
EDE-MES	30	982	100	862	360	164	10-10 10-10 10-10	2,496
NECB HECL	18	736		898	342	621	Alex 1010	2,615
NEB ENPIRONMENT	1	31	-	6	11			
ENU ENU-ADM	41	1,523	431	1,894	829 19	218		4,936
ENV-ES	41	1,432	411	1,820	24	213 10		4,693
ENV-AES ENV-ECS	21	640 354	174	1,130 256	346 286	31 77		2,342
ENV-FOR ENV-PC	10	361 77	66	379 74	121	95	**** ABD 800	1,032
EXTERNAL AFFA	IRS		66		28			101
EA-CIA	400 mga ang	7	66		28		www.investigation	101
CIDA IDRC	1 7	2 103	34 7	3 51	17 96		Ann 440 999	57 264
IJC FINANCE	7	10	6	4	22			49
FIN FIN-FEP	12	I41 141	21	25 25	44 44			243 243
FISHERIES AND		960	118	784	204	316		2,390
F80 F80-FM	8	960	118	784	204	316		2,390
INDIAN AFFAIR		63	10	10	6	1	- 1910 - 1910 - 1910	90
IAND-IIA IAND-NA	verse wann soleit	3 60	10	10	6		The second second	3 86
INDUSTRY TRAD	E AND COMME	RCE 3	119	and wan also	58	1	Any sink And	181
ITC-TI ITC-TOUR	A10 VIII VIII	3	115		57	1		175
1 TC = 10.018 1 TC = 2.0			1		4	10.00		2

BY DEPARTMENT OR AGENCY, BY CATEGORY, 1982-83

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	JUST	5	18	8	I	23	1000 ALL 840		55
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	JUST-ADM			2	1	17	1000 UPV 1000		42
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	JUSI-CUIO CHRC	1				6			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		3		5		36	anny light and		
HATTONAL DEFENCE La SSS 103 495 244 268 192 1.879 HUPF HUP FERSER 12 555 103 495 244 268 192 1.879 HUM 1001T AND METERRE 565 103 495 244 268 192 1.879 HUM-HAS 3 23 12 32 23	LABOUR								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			27	35	23	42			130
NATIONAL HEALTA AND HELFARE HALL AND MELFARE HALL AND MELFARE H	NDEF	12				244	268	192	1,878
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				103	495	244	268	192	1,878
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				51	376	259	19		1.437
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	NHW-ADM	7	60	6		23		mere ment spirit	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		3						10.00 mm. 10.00	60
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		9							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
NATIONAL REVENUE NREV_TAX 2 444 69 2 122 239 NREV_TAX 2 444 69 2 122 239 PRIV/COLLU PC									
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	NREV NDEV-TOM	2						online which would	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		2	-}-+	69	<i>C</i> .	122		ing any sec.	239
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	PC	A.000 10000 areas			and dark app		1073 S.S. 1000		
PIRELIC LORKS Description Description <td></td> <td>2</td> <td></td> <td>50</td> <td></td> <td></td> <td></td> <td></td> <td></td>		2		50					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		3	68	25	17	35		dility where many	140
PHPTS 46 10 2 7 56 NCC 3 3 28 33 REF CMAL ECONOMIC EXPANSION 33 3 29 SCIENCE AND TECHNOLOGY 12 5 3 8 29 ST 22 11 69 5 53 1 29 ST 22 11 69 5 53 1 29 ST 22 11 161 1464 464 296 3.341 NRC-STI 42 52 98 SECS 5 16 20 5 19 108 SECS-TRA 2 109 3 109			48	10	2	7			59
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
REFLENCE AND TECHNOLOGY 2 12 5 3 8 29 ST 22 11 69 5 53 1 29 ST 22 11 69 5 53 1 29 ST 22 11 69 5 53 1 29 NRC 6 1.112 188 1.041 464 296 3.187 NRC-STR 6 1.112 188 1.041 464 296 3.187 SECS 5 19 52 98 98 SECS-STRA 2 8 16 98 98 169 98 98 169 98 98 169 98 98 169 98 98 169 98 98				3				112 - 120 - 1120	160
REE 2 12 5 3 8 29 SC LENCE AND TECHNOLOGY 22 11 69 5 53 1 161 NRC 6 1.182 220 1.042 590 301 3.187 NRC-STI 70 32 1 126 5 234 NSERC 4 42 52 95 SECCS-OL 42 42 188 SECCS-TRA 2 7 189 SECS-CLT 2 7 19 SECS-TRA 2 7 19 SECS-TRA 2 7 19 SECS-TRA 2 10 3 7 SOLICITOR GENERAL -			3			1000 (100 mass)	We see see		3
SCLENCE AND TECHNOLOGY ST 22 11 69 5 53 1 161 NRC 51R 6 1.182 220 1.042 590 301 3.341 NRC-51R 6 1.112 188 1.041 464 296 3.187 NRC-STI 70 32 1.126 5 234 NSERC 4 42 52 98 SC 5 16 20 5 19 65 SECRETARY OF STATE SECS 2 8 1.128 169 SECS-STR 2 8 1.128 169 SECS-STR 12 8 1.128 169 SECS-TR 12 8 1.128 169 SECS-TR 12 8 1.128 169 SECS-TR 12 8 1.128 169 SECS-TR 12 8 1.128 169 SECS-CIT 12 2 5 1.128 169 SECS-TR 12 8 110 3 151 SGEN-ADM 35 3 110 3 51 SGEN-ADM 35 3 10 3 51 SGEN-ADM 35 3 10 3 44 S 2 2 2 44 S 10 3 110 3 110 110 STCAN 49 786 751 8111 2.142 377 44 STCAN 19 19 10 2 111 117 TPT-ADM 1 19 10 4 117 TPT-ADM 1 19 10 4 117 TPT-ADM 1 19 10 4 117 TPT-ADM 1 19 10 117 TPT-ADM 1 19 12 110 117 TPT-ADM 1				5	3	9	that they work		29
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SS-SUPP 0 2 2 4 STCAN 49 786 751 811 2, 142 37 4, 576 TRANSPORT TPT 1 48 14 5 11 79 TPT-ADM 1 19 10 2 11 43 TPT-ADM 1 19 10 2 11 43 TPT-ADM 1 19 10 2 11 43 TPT-AIR 17 17 43 TPT-SUR 2 17 17 TPT-SUR 2 17 2 CTC 2 42 1 11 12 68 TB-ADM 29 18 145 2 44 238 TB-ADM 29 18 145 2 44 238				2		2			4
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CTC 2 42 1 11 12 68 TREASURY BOARD TB 29 18 145 2 44 238 TB-ADM 29 18 145 2 44 238				4	3		Anna area area	sinte sum verse	17
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TB-ADM 29 18 145 2 44 238	TB	29			2	44			238
TOTAL 412 10.479 3.244 9 089 7 277 7 607 102 74 206	TB-ADM	29	18		2	44		we an mb	
	TOTAL	412	10, 479	3,244	9,089	7,273	3,607	192	34,296

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1980-83

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1980-81								
INTRAMURAL R&D	88	5,925	692	4,779	1,799	2,648	163	16,093
INTRAMURAL RSA	192	3,798	2,068	4, 146	4,900	771	12	15,887
ADMIN. OF EXTRAMURAL PROGRAMS	30	295	320	46	378	29	10	1,109
TOTAL	310	10,018	3,080	8,971	7,076	3, 448	185	33,088
1981-82								
INTRAMURAL R&D	95	6,148	695	4,910	1,800	2,695	171	16,514
INTRAMURAL RSA	217	3,906	2,170	4, 169	5,958	839	Ι1	17,269
ADMIN. OF EXTRAMURAL PROGRAMS	33	313	327	52	405	31	10	1, 171
TOTAL	344	10,367	3, 192	9,130	8,163	3, 565	192	34, 953
1982-83								
INTRAMURAL R&D	136	6,219	669	4,831	1,934	2,763	171	16,722
INTRAMURAL RSA	242	3,904	2, 178	4, 197	4, 896	811	11	16,239
ADMIN. OF EXTRAMURAL PROGRAMS	34	356	398	62	443	33	10	1,335
TOTAL	412	10, 479	3, 244	9,089	7,273	3,607	192	34, 296



Natural Sciences

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY PERFORMER, 1980-1983

170700W75	1980-	81	1981-	82	1982-	83
PERFORMER	\$		\$	2	\$	
INTRAMURAL	1,007,477	(60.1)	1,152,860	(56.9)	1,360,767	(57.6)
INDUSTRY	292,634	(17.4)	400,510	(19.8)	464, 059	(19.6)
UNIVERSITIES	273,973	(16.3)	338,003	(16.7)	379,430	(16.1)
NON-PROFIT INSTITUTIONS	11,756	(0.7)	15,086	(0.7)	18,859	(0.8)
PROVINCIAL & MUNICIPAL	39, 137	(2.3)	54,306	(2.7)	69,632	(2.9)
FOREIGN	42,063	(2.5)	50,981	(2.5)	55,689	(2.4)
OTHER CANADIAN	10,561	(0.6)	13,555	(0.7)	14,064	(0.6)
TOTAL	1,677,607	(100.0)	2,025,301	(100.0)	2,362,500	(100.0)

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES TOTAL ALL COMPONENTS

FISCAL YEAR 1980-81

(\$ THOUSANDS)

	INTRAMEL	CANADIAN INDUSTRY	CANADIAN UNIVERSITY	CANADIAN N-P INST	PROM. MUN. GOMERNMENTS	FORE IGN PERFORMERS	OTHER PERFORMERS	TOTAL
IN-HOUSE R&D R&D CONTRACTS SUPPORTING CONTRACTS R&D GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTRAMURAL R&D CAPITAL - R&D	528,074 67 23,704 1,243 24,108 88,138	8 100,202 0 135,377 1,639 0 8	2 16,098 232,851 5,131 0 0	0 4,785 0 3,799 0 0 0	0 463 0 31,256 0 0 0	8 4,268 8 29,935 4,636 8 8	0 3,692 0 446 116 0 0	528,074 129,567 23,704 433,664 12,765 24,108 88,138
SUB TOTAL R&D	665,334	237,218	254,080	8,584	31,719	38,831	4, 254	1,240,020
DATA COLLECTION INFORMATION SERVICES TESTING & STANDARDIZATION FEASIBLITY STUDIES EDUCATION SUPPORT NUSEUM SERVICES ADMIN. EXTRAINURAL RSA CAPITAL - RSA	196,896 71,370 27,815 2,817 458 12,148 5,651 24,996	11,805 1,609 1,576 39,838 270 318 0 0	1,872 427 820 271 16,185 318 Ø Ø	927 1,192 277 278 20 478 0 0	5,003 27 0 2,388 0 2,388 0 0	60 957 110 86 2,025 0 0 0 0 0	2,194 1,858 148 1 1,788 318 0 0	218,757 77,440 30,746 43,291 20,746 15,960 5,651 24,996
SUB TOTAL RSA	342,143	55,416	19,893	3,172	7.418	3,238	6, 387	437,587
TOTAL	1,007,477	292,634	273,973	11,756	39, 137	42,069	10,561	1,677,607

FISCAL YEAR 1981-82

CANADIAN CANADIAN CANADIAN UNIVERSITY N-P INST PROF. MUN. GOVERNMENTS FOREIGN OTHER PERFORMERS PERFORMERS INTRAMEL INDUSTRY TOTAL IN-HOUSE RED RED CONTRACTS SUPPORTING CONTRACTS RED GRANTS RESERRCH FELLOWSHIPS ADMIN. EXTRAMURAL RED CAPITAL - RED 609,844 176,905 27,282 568,457 18,999 28,418 103,959 0 4,423 37,418 5,142 0 0 139,298 195,195 2,839 0 0 21,590 281,727 9,325 Ø 609,844 609,844 I28 27,282 0 1,597 28,418 103,959 4,818 3,045 96 0 5,486 0 6,338 1, 162 0 44, 734 0 SUB TOTAL RED 771,228 337,332 312.642 11.824 45,896 46,983 7,959 1,533,864 DATA COLLECTION INFORMATION SERVICES TESTING & STANDARDIZATION FEASIBILITY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA 13,047 2,487 3,179 43,488 640 337 8 0 225,182 80,125 30,116 2,944 424 12,858 6,647 23,336 673 1,388 384 311 0 50 1,301 115 157 2,375 3,129 930 180 62 958 337 249,402 87,033 35,569 47,205 25,342 16,903 6,647 23,336 2,065 5,256 534 2,065 268 1,594 152 20,945 337 0 0 91 0 2,529 0 0 0 SUB TOTAL RSA 381,632 63,178 25,361 3,998 491,437 3,262 8,410 5,596 1,152,860 400,510 338,003 15,086 54,306 50,981

(\$ THOUSANDS)

FISCAL YEAR 1982-83

	INTRAMEL	CANADIAN INDUSTRY	CANADIAN UN IVERSITY	CANADIAN N-P INST	PROV. MUN. GOVERNMENTS	FORE IGN PERFORMERS	OTHER PERFORMERS	TOTAL
IN-HOUSE R&D R&D CONTRACTS SUPPORTING CONTRACTS R&D GRANTS RESEARCH FELLOUSHIPS ADMIN. EXTRAMURAL R&D CAPITAL - R&D	685,533 168 26,892 0 1,746 36,647 161,783	8 167,636 217,777 3,945 8 8	0 24,891 314,366 11,907 0 0	0 7,081 8,204 0 0 0	0 1,333 0 54,360 0 0 0 0	0 4,174 0 41,390 5,752 0 0	0 5,833 0 2,752 117 0 0	685,533 211,116 26,892 639,849 23,467 36,647 161,793
SUB TOTAL RED	912,769	389,358	351,164	15,285	55,693	51,316	8,702	1,784,287
DATA COLLECTION INFORMATION SERVICES TESTING & STANDARDIZATION FEASIBILITY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA	259,394 91,105 33,414 3.247 484 13,934 8,097 38,323	16,701 3,058 3,620 50,104 829 389 0 0	2,138 305 1,816 194 23,424 389 8 8	675 1,618 375 330 584 8 8	5,647 5,231 143 2,917 0 8	54 1,451 196 2,672 0 0	3,431 1,148 278 74 50 389 0 0	288,040 103,908 39,496 54,288 27,459 18,602 8,097 38,323
SUB TOTAL RSA	447,998	74,701	28,266	3, 574	13,939	4,373	5,362	578.213
TOTAL	1.360.767	464.053	376-430	10.059	63.632	55.629	14, 06,4	2.262.580

BY DEPARTMENT OR AGENCY

DEPARTMENT	ner ann an aith dis das das ain an an	1980-81		10 (10) (10) (10) (10) (10) (10) (10) (1	1981-82			1982-83	
OR AGENCY	R&D		TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE AGR AGR-ADM AGR-DEV AGR-RI AGR-CGC CDC CLFB	142,852 136,912 4,590 1,350	8,267 4,200 2,534 1,533 598	151,119 4,200 139,446 4,590 2,883 598	158,410 151,654 5,103 1,653	8,374 4,783 1,729 1,862 2,200	166.784 4,783 153,383 5,103 3,515 2,200	186,003 176,105 7,981 1,917	5,084 921	194,281 5,084 177,026 7,981 4,190 2,500
COMMUNICATION COMM COMM-COMM COMM-AC CBC	60,501 60,501	70	60,571 60,571	76,069 76,069	70 70	76,139 76,139	61,330 61,330	100 100	61,430 61,430
CRTC NFB NLIB NMUS	382 1,082	252	634 18, 811	427	176 18,839	6Ø3 21,012	497 1,319	200 20,938	22,307
PA SSHRC CONSUMER AND CCA CCA-ADM	CORPORATE	AFFAIRS 14,545	14, 545		14,972	14,972		17,731	17,731
CCA-CON CCA-COR		2,170 12,375	2,170 12,375		2,435 12,537	2,435 12,537	and an an	2,850 14,881	2,95 0 14,981
ED EMPLOYMENT &	IMMIGRATIC			-		war with over		ser did did	
EI EI-ADM CEIC ENERGY MINES	PESCIPCE			wan ikan wan and ikan wan wan wan		800 800 907 800 800 800	ven han det		
EMR EMR-ENER EMR-MES AECB AECL NEB	128,407 45,851 82,556 775 78,848	42,230 577 41,653 17,924 382	170,637 46,428 124,209 775 96,772 382	172,372 65,751 106,621 1,099 96,202	46,870 2,241 44,629 17,980 495	219,242 67,992 151,250 1,099 114,182 495	211,661 75,159 136,502 2,071 110,505	57, 174 3, 743 53, 431 21, 879 501	268,835 78,902 189,933 2,071 132,384 501
ENV-ES	87,336 399 86,588 5,388 18,860 16,810 45,530 349	I 44, 315 1, 180 141, 918 3, 372 96, 973 36, 823 4, 750 1, 217	231,651 1,579 228,506 8,760 115,833 53,633 50,280 1,566	100,489 432 99,675 5,348 22,627 18,250 53,450 382	161,529 1,189 158,999 2,822 111,480 39,854 4,843 1,341	262,018 1,621 258,674 8,170 134,107 58,104 58,293 1,723	119,585 475 118,684 7,108 26,807 20,950 63,819 426		314,684 1,682 311,083 10,000 164,750 66,971 69,362 1,919
EA EA-CIA CIDA	8, 595 19, 167	23,639 943 2,328	32,234 20,110 2,328	9,709 23,044	26,030 1,395 2,771	35,739 24,439 2,771	11,062 28,182	28,632 1,714 2,988	39,694 29,896 2,988
FIN-FEP FISHERIES AND	OCEANS	400 Add 444				400. 400 400.			100 400 400
F&O F&O-FM INDIAN AFFAIR:	56,684 56,684 S & NORTHE			63, 157 63, 157	63, 384 63, 384	126, 541 126, 541	63,967 63,967	78,034 78,034 863	142,001 142,001
IAND IAND-IIA IAND-NA INDUSTRY TRAD	2,246 2,246 E AND COMM	774 774 1ERCE	3,020	2,587	781 781	3,368	2,810 2,810	863	3,673
ITC ITC-TI ITC-TOUR	93,200 91,972	2,728	95,928 94,700	137,021 135,883	3,590 3,590	140,611 139,473	166,302 165,242	4,273 4,273	170,575
ITC-GO	1,228		1,228	1,138	*** *** ***	1,138	1,060		1.060

BY DEPERTMENT OR REENCY

(\$ THOUSANDS)

JUSTICE JUST	,581 ,266 ,036 ,229 ,461 	29,166 2,430 26,706 2,570 4,050 4,050 1,311 160	TOTAL 120, 534 120, 534 120, 534 120, 534 120, 534 48, 747 8, 696 2, 086 37, 965 82, 031 8, 310 8, 310 3, 126 160 771	R&D	RSA 	TOTAL	R&D R&D 136,025 136,025 23,386 23,386 23,386 109,146 109,146 2,380 2,380 3,040 		136,995 60,184 7,755 2,167 50,262 112,884 8,138 8,138 5,215
JUST		754 754 754 29,166 2,430 26,736 2,570 2,570 4,050 4,050 1,311 160 SION	 120,534 123,534 48,747 8,696 2,086 37,965 82,031 82,031 8,310 8,310 3,126 160	188,827 188,827 23,858 6,723 3,918 12,417 96,849	866 806 30,371 2,008 20,863 3,313 6,249 6,249 2,037	109,693 109,693 109,693 •53,929 8,731 3,918 41,280 100,167	 136,025 136,025 23,306 2,748 2,167 15,391 109,146 109,146 2,380 2,380 3,040	970 970 36, 879 2, 897 34, 871 3, 739 	136,995 136,995 136,995 60,184 7,755 2,167 59,262 112,884
JUST JUST-ADM JUST-CUIO LRC LRBOUR LABOUR NATIONAL DEFENCE 99. NATIONAL DEFENCE 99. NATIONAL HEALTH AN 19. NHM-ADM NHM-HSS 6. NHM-HSS 6. NHM-HS 2. NRC 79. NREV-TAX NREV-TAX PC NREV-TAX PUBLIC WORKS PW 4. PW-PTS 4. NRC-SIR 189. NRC-SIR 189. <td< td=""><td></td><td>754 754 754 29,166 2,430 26,736 2,570 2,570 4,050 4,050 1,311 160 SION</td><td> 120,534 123,534 48,747 8,696 2,086 37,965 82,031 82,031 8,310 8,310 3,126 160</td><td>188,827 188,827 23,858 6,723 3,918 12,417 96,849</td><td>866 806 30,371 2,008 20,863 3,313 6,249 6,249 2,037</td><td>109,693 109,693 109,693 •53,929 8,731 3,918 41,280 100,167</td><td> 136,025 136,025 23,306 2,748 2,167 15,391 109,146 109,146 2,380 2,380 3,040</td><td>970 970 36, 879 2, 897 34, 871 3, 739 </td><td>136,995 136,995 60,184 7,755 2,167 50,262 112,884 </td></td<>		754 754 754 29,166 2,430 26,736 2,570 2,570 4,050 4,050 1,311 160 SION	 120,534 123,534 48,747 8,696 2,086 37,965 82,031 82,031 8,310 8,310 3,126 160	188,827 188,827 23,858 6,723 3,918 12,417 96,849	866 806 30,371 2,008 20,863 3,313 6,249 6,249 2,037	109,693 109,693 109,693 •53,929 8,731 3,918 41,280 100,167	 136,025 136,025 23,306 2,748 2,167 15,391 109,146 109,146 2,380 2,380 3,040	970 970 36, 879 2, 897 34, 871 3, 739 	136,995 136,995 60,184 7,755 2,167 50,262 112,884
JUST-CUIO CHEC LRC LABOUR LAB NATIONAL DEFENCE NDEF 990. NDEF-SER 900. NATIONAL HEALTH AN NUM-ADM NIM-ADM NIM-ADM NIM-ADM NIM-ADM NIM-HP 11. NIM-HP		754 734 734 FARE 2,430 26,736 2,570 2,570 1 4,050 4,050 1,311 160 SION	 120,534 123,534 48,747 8,696 2,086 37,965 82,031 82,031 8,310 8,310 3,126 160	103,827 198,827 23,858 6,723 3,918 12,417 96,849	866 806 30,871 2,008 28,863 3,318 3,318 6,249 6,249 6,249 2,037	109,693 109,693 109,693 -53,929 8,731 3,918 41,280 100,167 7,657 7,657 4,784	 136,025 136,025 23,306 5,748 2,167 15,391 109,146 2,380 2,380 3,040	970 970 970 36,879 2,897 34,871 3,733 5,758 5,758 5,758 2,175	136, 995 136, 995 60, 184 7, 755 2, 167 50, 262 112, 884 112, 884 8, 138 8, 138 8, 138 5, 215
CHEC LRC LABOUR LABOUR NATIONAL DEFENCE NDEF-SER 900, NATIONAL HEALTH AN NHM-ADM MIM-HSS 62, NHM-HSS 62, NHM-HSS 62, NHM-HSS 72, NHM-HS 23, NHM-HS 44, COL PC COL PC PUBLIC WORKS PW 4, PW-PTS 44, CMHC 11, NCC SC IENCE AND TECHNO ST 1, NRC 189, NRC-SIR 180, NRC-SIR 180,		 754 754 FARE 29,186 2,430 26,736 2,570 4,050 4,050 1,311 160 SION	100,534 100,534 100,534 48,747 8,086 2,086 2,086 37,965 82,031 82,031 82,031 82,031 82,031 82,031 82,086 37,965 82,086 37,965 8,310 8,310 8,310 8,310 8,310 8,310 8,310	103, 827 108, 827 23, 058 6, 723 3, 918 12, 417 96, 849 	866 866 30,871 2,008 29,863 3,318 3,318 6,249 2,037	109,693 109,693 109,693 -53,929 8,731 3,918 41,280 100,167 100,167 7,657 4,784	 136,025 136,025 23,306 5,748 2,167 15,391 109,146 109,146 2,380 2,380 3,040	970 970 36,870 2,007 34,871 3,733 	136,995 136,995 60,184 7,755 2,167 59,262 112,884
LRC LABOUR LAB NATIONAL DEFENCE NDEF NDEF-SER 99, NATIONAL HEALTH AI 19, NIMA-ADM NHM-HS 6, NHM-ADM NRC 79, NATIONAL REVENUE NREV-TAX NREV-TAX NREV-TAX PRIVY COUNCIL PC PC VBLIC WORKS PW 4, PW-PTS 4, NRC-SIR <ib9,< td=""> NRC-SIR<ib9,< td=""> NRC-SIR<ib9,< td=""> <</ib9,<></ib9,<></ib9,<>		754 754 754 20,166 2,430 26,736 2,570 2,570 4,050 1,311 160 SION	 130, 534 109, 534 48, 747 8, 696 2, 086 37, 965 82, 031 82, 031 8, 310 8, 310 8, 310 3, 126 160	103, 827 198, 827 23, 858 6, 723 3, 918 12, 417 96, 849 1, 493 1, 493 2, 747	866 866 30,871 2,008 20,863 3,318 6,249 6,249 2,037	 109,693 109,693 -53,929 8,731 3,918 41,280 100,167 7,657 4,784	 136,025 136,025 23,306 5,748 2,167 15,391 109,146 2,380 2,380 3,040	970 970 36,879 2,097 34,871 3,738 5,758 5,758 5,758 2,175	136,995 136,995 60,184 7,755 2,167 50,262 112,884
LABOUR LAB	,780 ,780 ND WEL ,581 ,265 ,035 ,220 ,461 ,220 ,461 ,260 ,260 ,815 EXPAN	754 FARE 29, 186 2, 438 26, 736 2, 570 4, 050 4, 050 1, 311 160 SION	120, 534 103, 534 48, 747 8, 696 2, 086 37, 965 82, 031 82, 031 82, 031 82, 031 82, 031 8, 310 8, 310 8, 310 8, 310 8, 310 8, 310 8, 310 8, 310	183, 827 188, 827 23, 858 6, 723 3, 918 12, 417 96, 849	866 806 30,371 2,008 20,863 3,318 6,249 6,249 2,037	109,693 109,693 -53,929 8,731 3,918 41,280 100,167 7,657 4,784	136,025 136,025 23,306 5,748 2,167 15,391 109,146 2,380 2,380 3,040	970 36, 878 2,097 34, 871 3, 738 5, 758 5, 758 2, 175	136,995 136,995 60,134 7,755 2,167 50,262 112,884 8,138 8,138 8,138 5,215
LAB	,780 ,780 ND HEL ,263 ,263 ,220 	754 FARE 29, 186 2, 438 26, 736 2, 570 4, 050 4, 050 1, 311 160 SION	120, 534 103, 534 48, 747 8, 696 2, 086 37, 965 82, 031 82, 031 82, 031 82, 031 82, 031 8, 310 8, 310 8, 310 8, 310 8, 310 8, 310 8, 310 8, 310	103, 827 198, 827 23, 058 6, 723 3, 918 12, 417 96, 849 	866 800 20,871 2,008 20,863 3,318 6,249 6,249 2,037	109,693 109,693 -53,929 	136,025 156,025 23,306 5,748 2,167 15,391 109,146 2,380 2,380 3,040	970 36, 878 2,097 34, 871 3, 738 5, 758 5, 758 2, 175	136,995 136,995 60,134 7,755 2,167 50,262 112,884 8,138 8,138 8,138 5,215
NDEF 99, NDEF-SER 99, NATIONAL HEALTH AI NHM 120, NHM-ADM NHM-ADM NHM-HS 2, NHM-HS 2, NHM-HS 2, NHM-HS 2, NHM-HS 2, NHM-HS 2, NHM-TS MRC 79, NATIONAL REVENUE NREV NREV PRIVY COUNCIL PC PUBLIC WORKS PUBLIC WORKS PU 4, PM-PTS 4, CMHC 1, NCC SCIENCE AND TECHNO ST ST 1, NRC-SIR 189, NRC-SIR 189, NRC-SIR 189, NRC-SIR 189, NRC-SIR 189,	,780 ND HEL: ,581 	754 FARE 29,166 2,430 26,736 2,570 4,050 4,050 1,311 160 SION	100,534 48,747 8,696 2,086 37,965 82,031 82,031 8,310 8,310 8,310 3,126 160	188, 827 23, 858 6, 723 3, 918 12, 417 96, 849 1, 403 1, 403 2, 747	866 30, 871 2,008 20,863 3,318 6,249 6,249 2,037	109,693 -53,929 8,731 3,918 41,280 100,167 7,657 4,784	136,025 23,306 5,748 2,167 15,391 109,146 2,380 2,380 3,040	970 36, 878 2,097 34, 871 3, 738 5, 758 5, 758 2, 175	136,995 60,134 7,755 2,167 50,262 112,884 8,138 8,138 5,215
NDEF-SER 99, NATIONAL HEALTH AI 19, NHM-ADM NHM-ADM NHM-ADM NHM-HS 2, NHM-HS 2, NHM-HS 2, NHM-HS 2, NHM-HS 2, NHM-HS 2, NHM-HS MRC 79, NATIONAL REPENUE NREP-TAX NREP-TAX PC COL ECC PUPTY COUNCIL PU 4, PW 4, PW-PTS 4, CMHC 1, NCC SC SC IENCE AND TECHNOM SEC 1 NRC IB9, NRC-SIR NRC-SIR 189, NRC-SIR 189, NRC-SIR 146, SEC <td>,780 ND HEL: ,581 </td> <td>754 FARE 29,166 2,430 26,736 2,570 4,050 4,050 1,311 160 SION</td> <td>100,534 48,747 8,696 2,086 37,965 82,031 82,031 8,310 8,310 8,310 3,126 160</td> <td>188, 827 23, 858 6, 723 3, 918 12, 417 96, 849 1, 403 1, 403 2, 747</td> <td>866 30, 871 2,008 20,863 3,318 6,249 6,249 2,037</td> <td>109,693 -53,929 8,731 3,918 41,280 100,167 7,657 4,784</td> <td>136,025 23,306 5,748 2,167 15,391 109,146 2,380 2,380 3,040</td> <td>970 36, 878 2,097 34, 871 3, 738 5, 758 5, 758 2, 175</td> <td>136,995 60,134 7,755 2,167 50,262 112,884 8,138 8,138 5,215</td>	,780 ND HEL: ,581 	754 FARE 29,166 2,430 26,736 2,570 4,050 4,050 1,311 160 SION	100,534 48,747 8,696 2,086 37,965 82,031 82,031 8,310 8,310 8,310 3,126 160	188, 827 23, 858 6, 723 3, 918 12, 417 96, 849 1, 403 1, 403 2, 747	866 30, 871 2,008 20,863 3,318 6,249 6,249 2,037	109,693 -53,929 8,731 3,918 41,280 100,167 7,657 4,784	136,025 23,306 5,748 2,167 15,391 109,146 2,380 2,380 3,040	970 36, 878 2,097 34, 871 3, 738 5, 758 5, 758 2, 175	136,995 60,134 7,755 2,167 50,262 112,884 8,138 8,138 5,215
NATIONAL HEALTH ANNAL NEW 19. NEW	ND HEL ,581 ,265 ,035 ,229 ,451 	FARE 29,186 2,430 26,736 2,570 2,570 4,050 4,050 1,311 160 SION	48,747 8,696 2,066 37,965 82,031 8,310 8,310 3,126 160	23, 858 6, 723 3, 918 12, 417 96, 849 1, 493 1, 498 2, 747	30, 871 2,008 28,863 3,318 6,249 6,249 6,249 2,037	-53,929 8,731 3,918 41,280 100,167 7,657 7,657 4,784	23, 386 5, 748 2, 167 15, 391 109, 146 2, 380 2, 380 3, 040	36,878 2,897 34,871 3,738 5,758 5,758 5,758 2,175	60, 184 7,755 2, 167 50, 262 112, 884 8, 138 8, 138 5, 215
NH4 19, NH4-ADM NH4-HSS 6, NH4-HSS 2, NH4-HSS 2, NH4-HSS 2, NH4-HS 2, NH4-HS 2, NH4-HS 2, NH4-HS 2, NH4-HS NRC 79, NRTIONAL REVENUE NREV-TAX PC COL PC PC PC PC PC PUBLIC WORKS PW-PTS 4, NCC SC IENCE AND TECHNOC RE ST 1 NRC SIR <ib9,< td=""> NRC-SIR<ib9,< td=""> NRC-SIR<ib9,< td=""> NRC-SIR<ib9,< td=""> NRC-SIR<ib9,< td=""> NRC-SIR<ib9,< td=""> NRC-SIR<ib9,< td=""> NRC-SIR <td< td=""><td>,581 ,266 ,036 ,229 ,461 </td><td>29,166 2,430 26,706 2,570 4,050 4,050 1,311 160 SION</td><td>8,086 2,086 37,965 82,031 8,310 8,310 8,310 3,126 160</td><td>6,723 3,918 12,417 96,849 1,498 1,498 2,747</td><td>2,008 20,863 3,318 6,249 6,249 2,037</td><td>8,731 3,918 41,280 100,167 7,657 7,657 4,784</td><td>5,748 2,167 15,391 109,146 2,380 2,380 3,040</td><td>2,097 34,871 3,733 5,758 5,758 5,758 2,175</td><td>7,755 2,167 59,262 112,884 8,138 8,138 8,138 5,215</td></td<></ib9,<></ib9,<></ib9,<></ib9,<></ib9,<></ib9,<></ib9,<>	,581 ,266 ,036 ,229 ,461 	29,166 2,430 26,706 2,570 4,050 4,050 1,311 160 SION	8,086 2,086 37,965 82,031 8,310 8,310 8,310 3,126 160	6,723 3,918 12,417 96,849 1,498 1,498 2,747	2,008 20,863 3,318 6,249 6,249 2,037	8,731 3,918 41,280 100,167 7,657 7,657 4,784	5,748 2,167 15,391 109,146 2,380 2,380 3,040	2,097 34,871 3,733 5,758 5,758 5,758 2,175	7,755 2,167 59,262 112,884 8,138 8,138 8,138 5,215
NIW-ADM HIW-HSS G. NHW-HSS 2. NHW-HS 2. NHW-HS 2. NHW-HS 2. NHW-HS NRC 79. NATIONAL REVENUE NREV NREV-TAX PRIVY COUNCIL PC COL ECC PUBLIC WORKS PW 4. PW-PTS 4. NCC 1. NCC REGIONAL ECONOMIC REG 189. NRC 189. NRC 189. NRC 189. NRC 189. NRC 1.4. SC SECRETARY OF STATI SECS-CL SECS-CSES SECS-TRA	, 266 , M35 , M35 , 220 , 461 , 220 , 200 , 200	2,438 26,736 2,570 4,050 4,050 1,311 160 SION	8,086 2,086 37,965 82,031 8,310 8,310 8,310 3,126 160	6,723 3,918 12,417 96,849 1,498 1,498 2,747	2,008 20,863 3,318 6,249 6,249 2,037	8,731 3,918 41,280 100,167 7,657 7,657 4,784	5,748 2,167 15,391 109,146 2,380 2,380 3,040	2,097 34,871 3,733 5,758 5,758 5,758 2,175	7,755 2,167 59,262 112,884 8,138 8,138 5,215
HIM-HSS S. NHM-HS 2. NHM-HS 2. NHM-HS MRC 79. NATIONAL REVENUE NREV NREV-TAX PC COL ECC PUBLIC WORKS PW-PTS 4. CMHC 1. NCC SCIENCE AND TECHNOMIC SEC SCIENCE AND TECHNOMIC NRC 189. NRC-SIR 189. NRC-SIR 146. SC SECS-CI SECS-CI SECS-TRA	, 036 , 220 , 461 	26,736 2,570 2,570 4,050 4,050 4,050 1,311 160 SION	2,086 37,965 82,031 8,310 8,310 8,310 3,126 160	3,918 12,417 96,849 1,498 1,498 2,747	28,863 3,318 6,249 6,249 2,037	3,918 41,280 100,167 7,657 7,657 4,784	2, 167 15, 391 109, 146 2, 380 2, 380 3, 040	34, 871 3, 733 5, 758 5, 758 2, 175	2, 167 59, 262 112, 884 8, 138 8, 138 5, 215
NHW-HP 11. NHW-TS MRC 79. NATIONAL REVENUE NREV NREV-TAX PREV-TAX PREV-TAX PREV-TAX POBLIC COUNCIL PC PUBLIC WORKS PW-PTS 4. PW-PTS 4. NCC SCIENCE AND TECHNOMIC NRC 189. NRC 189. NRC <sir< td=""> 189. NRC-SIR 189. NRCSTI SECRETARY OF STATI SECS SECS-CL SECS-TRA </sir<>	, 229 , 461 	26,736 2,570 4,050 4,050 1,311 160 SION	37,965 82,031 8,310 8,310 8,310 3,126 160	12,417 96,849 1,493 1,498 2,747	28,863 3,318 6,249 6,249 2,037	41,280 100,167 7,657 7,657 4,784	15,391 109,146 2,380 2,380 3,040	34, 871 3, 733 5, 758 5, 758 2, 175	50,262 112,984
NHW-IS MRC 79 NATIONAL REVENUE NREV-TAX PRIVY COUNCIL PC COL PUBLIC WORKS PW-PTS 4, PW-PTS 4, CMHC 1, NCC SCIENCE AND TECHNOMIC NRC 189, NRC 189, NRC-SIR 189, NRCSC SECS SECS-DL SECS-TRA	, 461 	2,570 4,050 4,050 1,311 160 SION	82,031 8,310 8,310 3,126 160	96,849	3,318 6,249 6,249 2,037	100, 167	109, 146 2, 380 2, 380 3, 040	3,733 5,758 5,758 5,758 2,175	112,884
MRC 79, NATIONAL REVENUE NREV NREV-TAX PRIVY COUNCIL PC COL ECC PUBLIC WORKS PW-PTS 4, CMHC 1, NCC SC IENCE AND TECHNOMIC ST 1, NRC 189, NRC-SIR 146, SC SECS-OL SECS-CS SECS-TRA	, 461 	2,570	82,031 8,310 8,310 8,310 3,126 160	96,849	3,313 6,249 6,249 2,037	 7,657 7,657 4,784	109, 146 2, 380 2, 380 3, 040	3,733 5,758 5,758 2,175	8, 138 8, 138 8, 138
NATIONAL REVENUE NREV-TAX PRIVY COUNCIL PC COL ECC PUBLIC WORKS PW 4, PW-PTS 4, CMHC 1, NCC SCIENCE AND TECHNO ST 1 NRC 189. NRC-SIR 189. NRC-SIR 189. NRC-SIR 189. NRC-SIR 189. NRC-SIR 189. NRC-SIR 189. NRC-SIR 189. NRC-SIR 189. NRC-SIR 189. ST 1 SECS SECS-ES SECS-TRA		4,050 4,050 1,311 160 SION	8,310 8,310 3,126 160	1,493 1,493 2,747	6,249 6,249 2,037	 7,657 7,657 4,784	2, 380 2, 380 3, 040	5, 758 5, 758 2, 175	8, 138 8, 138 8, 138
NREV	, 260 , 260 , 815 EXPAN	4,858 4,858 1,311 160 SION	8,310 3,126 160	1,493 1,493 2,747	6, 249 6, 249 6, 249 2, 037	7,657 7,657 7,657 4,784	 2, 380 2, 380 3, 040	5, 758 5, 758 5, 758 2, 175	8, 138 8, 138 8, 138 5, 215
NEEV-TAX PRIVY COUNCIL PC PC COL ECC PUBLIC WORKS PW PW 4, PW-PTS 4, CMHC 1, NCC SC IENCE AND TECHNOMIC ST 1, NRC 189, NRC-SIR 189, NRC-SIR 146, SC SECRETARY OF STATI SECS-OL SECS-CS SECS-TRA	, 260 , 260 , 815 EXPAN	4,858 4,858 1,311 160 SION	8,310 3,126 160	1,493 1,493 2,747	6, 249 6, 249 6, 249 2, 037	7,657 7,657 7,657 4,784	2, 380 2, 380 3, 040	5, 758 5, 758 5, 758 2, 175	8, 138 8, 138 8, 138 5, 215
PRIVY COUNCIL PC	, 260 , 260 , 815 EXPAN	4,858 4,858 1,311 160 SION	8,310 3,126 160	1,403 1,403 2,747	6,249 6,249 2,037	7,657 7,657 4,784	2,380 2,380 3,040	5,758 5,758 2,175	8, 138 8, 138 8, 138 5, 215
COL ECC PUBLIC WORKS PW 4, PW-PTS 4, CMHC 1. NCC REGIONAL ECONOMIC REG REE SCIENCE AND TECHNO ST NRC 189. NRC-SIR 189. SECS-IN SECS-OL SECS-ES SECS-TRA	, 260 , 260 , 815 EXPAN	4,858 4,858 1,311 160 SION	8,310 3,126 160	1,403 1,403 2,747	6,249 6,249 2,037	7,657 7,657 4,784	2,380 2,380 3,040	5,758 5,758 2,175	8,138 8,138 8,138 5,215
ECC	, 260 , 260 , 815 EXPAN	4,050 4,050 1,311 160 SION	8,310 3,126 160	1,493 1,498 2,747	6,249 6,249 2,037	7,657 7,657 4,784	2,380 2,380 3,040	5,758 5,758 2,175	8, 138 8, 138 5, 215
PUBLIC WORKS 44 PW-PTS 44 FW-PTS 44 CMHC 17 NCC REGIONAL ECONOMIC RE ST 1 NRC 189 NRC-SIR 189 NRC-SIR 189 NRC-SIR 189 NRC-SIR 1460 SC SECRETARY OF STATI SECS-OL SECS-ES SECS-TRA	, 260 , 260 , 815 EXPAN	4,050 1,311 160 SION	8,310 3,126 160	1,493 1,498 2,747 	6,249 6,249 2,037	7,657 4,784	2,380 2,380 3,040	5,758 5,758 2,175	8,138 8,138 5,215
РИ 4, РМ-РТБ 4, CMHC 1, NCC REGIONAL ECONOMIC SCIENCE AND TECHNO ST 1 NRC-SIR 189. NRC-SIR 189. NRC-SIR 189. NRC-SIR 189. NRC-SIR 189. SC SECRETARY OF STATI SECS-COL SECS-CS SECS-TRA	, 260 , 815 EXPAN	4,050 1,311 160 SION	8,310 3,126 160	1,408 2,747 	6,249 2,037	7,657 4,784	2,380 3,040	5,758 2,175	8,138 5,215
PW-PTS 4, CMHC 1, NCC	, 260 , 815 EXPAN	4,050 1,311 160 SION	8,310 3,126 160	1,408 2,747 	6,249 2,037	7,657 4,784	2,380 3,040	5,758 2,175	8,138 5,215
CMHC L, NCC REGIONAL ECONOMIC REE SCIENCE AND TECHNS ST 1. NRC 1899 NRC-SIR 1897 NRC-SIR 1897 NRC-ST1 NSERC 1460 SC SECRETARY OF STATI SECS SECS-ES SECS-TRA	, 815 EXPAN	1,311 160 SION	3,126 160	2,747	2,037	4,784	3,040	2,175	5,215
NCC	EXPAN	160 SION	160						
REE			221						
SCIENCE AND TECHNO ST 1 NRC 189 NRC-SIR 189 NRC-STI NSERC 1460 SC SECRETARY OF STATI SECS-OL SECS-ES SECS-TRA		771	771						
ST 1 NRC 189. NRC-SIR 189. NRC-STI NSERC 146. SC SECRETARY OF STATI SECS-OL SECS-ES SECS-TRA			1 1 4		957	957	this and see	5,588	5,588
NRC 189. NRC-SIR 189. NRC-STI NSERC 146. SC SECRETARY OF STATI SECS SECS-OL SECS-ES SECS-TRA			L 358	1,553		1,553	1,895		1,895
NRC-SIR 189. NRC-STI NSERC 1460. SC SECRETARY OF STATI SECS SECS-OL SECS-ES SECS-TRA	,358 .977	36, 125	226, 102	254,997	42,377	297,374	312,448	48,244	360,692
NRC-ST1 NSERC 1460. SC SECRETARY OF STATI SECS SECS-OL SECS-ES SECS-TRA	,977	21,467	211,444	254,997	23,797	278,784	312,448	26,579	339, 027
NSERC 146. SC		14,658	14,658		18,590	18,590		21,665	21,665
SECRETARY OF STATI SECS	, 238	16,633	162,871	180,023	21,780	201,803	202,484	24,597	227,081
SECS SECS-OL SECS-ES SECS-TRA								white well were	
SECS-OL SECS-ES SECS-TRA									
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SGEN-ADM									
SUPPLY AND SERVICE	71	rent famo alam	71	295	And the same	295	300		300
	,172	2,219	14,391	12,376	2,185	14,561	12,387	2,187	14,574
	172	2,219	14,391	12,376	2, 185	14,561	12,387	2,187	14,574
TRANSPORT									
	,232	10,885	16,117	8,972	11,091	20,063	15,582	6,699	22,281
	,583	1,570	5,153	5,556	2,677	8,233	6,039	3,081	9,120
TPT-MAR I. TPT-AIR	,321 303	7,192 2,104	8,513 2,407	2,809 583	2,260	8,927 2,843	8,445 1,048	1,466	9,911 3,164
TPT-SUR	25	19	2,40r 44	24	36	2,843	50	36	3,164
CTC									
TREASURY BOARD									
TB		mer mer skil							
TB-ADM				ALC: 1000 -010	1000 Perce 2000		THE ADD ADD	out more anyo	
TOTAL 1,240.		100 000 100							2,362,500

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

D.P.D.O.P.M.P.L.P.		1980-81			1981-82	99 -9 to an an an an an an		1982-93	90 Min was been well \$90 Auth "day west
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- NUBAL	TOTAL	INTRA- MUEAL	EXTRA- MURAL	TOTAL
AGRICULTURE		*****			99 999 999 999 10 - 0 - 0 - 0		1 440 400 wild and one over over and over 1	an ball dae wee e e e a de ste e este alte e	
AGR	140,444	10,675	151,119	156,245	10,539	166,784	182,351	11,939	194,281
AGR-ADM AGR-DEV	4,200	10,671	4,200	4,783	10,535	4,783 153,383	5,084	11,926	5,084
AGR-RI	4,590		4, 593	5, 103		5,103	7,981	117040	7,981
AGR-CGC CDC	2,879	4 598	2,883	3,511	4 2,200	3,515 2,200	4, 186	2 599	4,198
ČLFB		J.70		700 010 010		67600		2,500	2,589
COMMUNICATION		10 201	00 571	40.720	00 100	70 170	50.005	0.405	0.1.170
	41,810	18,761 18,761	60,571 62,571	49,739	26,490 26,400	76,139 76,139	52,005 52,005	9,425 9,425	61,430 61,430
COMM-AC CBC		Anno anno anno	was were upon	the set out	angi sili kadi		anna anna suag		10 1 10 10 10 10
CRTC		day year and		1010 MINE AND		with app app	the state	****	
NFB NLIB	634	**** ANA ****	634	603		603	697	AND THE LOC	597
NMUS	14,882	3,929	18,811	16,842	4,170	21,012	17,625	4,692	22,307
PA					and the states states	1000 CH 100			
SSHRC CONSUMER AND	CORPORATE	AFFAIRS	and and built	ALC		And Part of the		and an an a	
JCCA	14,545	116 B 11 B 21 G	14,545	14,972	Ada 1997 - 19	14,972	17,731		17,731
CCA-ADM CCA-CON	2,170		0 170	0 425	And the set	3 425	2.050	mand which which	2,059
CCA-COR	12,375		2,170	2,435	WER PER STU	2,435	2,850 14,881		2,850
CCA-CICP				and there are not			and the same same		
ECONOMIC DEVI ED	ELOPMENT								
EMPLOYMENT &	IMMIGRATIC								
EI EI-ADM		The law and	max vive and			ALC: 244			Bend do is sound
CEIC				per das sas	alle and some				ant 0.0 mas
ENERGY MINES									
EMR EMR-ENER	109,203 749	61,434 45,679	170,637 46,428	131,569 1,284	87,673	219,242 67,992	166,148	102,687	268,835
EMR-MES	108,454	15,755	124,209	130,285	28,965	151,250	162,282	27,651	189,933
AECB	240	535	775	270	829	1,099	311	1,760	2,071
AECL NEB	74,129	22,643	96,772 382	87,959 495	26,223	114, 182 495	102,582 501	29,802	1325384 501
ENVIRONMENT									
ENV-ADM	202,639	29,012	231,651 1,579	229,714	32,304	262,018	281,669	33,015	314,634
ENV-ES	199,969	28,537	228,506	226,893	31,781	258,674	278,652	32,431	311,083
ENV-EPS	5,353	3,407	8,760	4,933	3,237	8, 179	5,528	4,472	10,000
ENV-AES ENV-ECS	47,242	4,002	115,833	129,540	4,567	134,107 58,104	IG0,303 59,242	4,447	I64,759 66,971
ENV-FOR	35,543	14,737	50,280	41,427	16,866	58, 293	53, 579	15,793	69,362
ENV-PC EXTERNAL AFFA	1,091	475	1,566	1,200	523	1,723	1,335	584	1,919
EA EA		1989 - 1999 - mark			Her data held	and 1000 1100	feed over some		and high must
EA-CIA									
C I DA I DRC	560 3,291	31,674	32,234 20,110	654 3,959	35,085	35,739 24,439	717	38,977	39,694 29,896
IJC	2,249	79	2,328	2,657	114	2,771	2,786	202	2,008
FINANCE		100 040 440							
FIN-FEP					2.00 Mills 100		down were don't	and dust like	Aller alter rolls
FISHERIES AND									
F&O F&Ø-FM	103,887	9,016 9,016	112,903	114,095	12,446	126,541	124,001	18,090	142,001
INDIAN AFFAIL				1140000	10/440	126,541	124,001	18,000	142,001
IAND	2,136	884	3,020	2,354	1.014	3,368	2,599	1,074	3,673
IAND-IIA IAND-NA	2,136	884	3,020	2,354	1,014	3,368	2,599	1,074	3,673
INDUSTRY TRAI	DE AND COMM	1ERCE							
ITC TI	6,200	89,728	95,928	7,032	133,579	140,611	8,526	162,949	170,575
ITC-TI ITC-TOUR	6,150	88,550	94,700	6,977	132,496	139,473	8,466	161,049	169,515
ITC-GO	50	1,178	1,228	55	L 083	1,138	69	1,990	1,860

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

\$ THOUSANDS)

LUDADTMENE		1988-31			1981-82			1982-83	
DHPARTMENT GR GGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURDL	EXTRA- MURAL	TOTAL	INTRA- Murál	EXTEA- MURAL	TOTAL
DUSTICE	the second second second second	a tea an in the constant of the set							Problement of a local case with the
JUST						vited same source	FREE STAR MARK		
JIST-ADM JIST-CUIO		anna anna anna 1940 Alare allali	and more card	and the second	and to a sub-	Millio and		1000 Miles	
C1310C			10.00 0.00 0.00				while many wear	4-0 4-0 600	4100 Mar. 1000
LEC LE CUR	and the own						non ann mh		
1.03		that to		Marine and a springe		410 Mag 0.00	The max shift		1000 and 1000
NATIONAL DEFEN NDEF NDEF-SER	71,793 71,793	28,741 28,741	100,534 100,534	73,584 73,584	36,189 36,189	109,693 109,693	82,010 82,010	54,985 54,985	136,995 136,995
NATIONAL HEALT	TH AND WEL	FARE				57.000			00.107
HEW HEW-ADM	38,947	9,803	48,747	42,694	11,235	53,929	50,007	10,177	60,184
NEW-HSS	545	8,151	8,696	644	8,087	8,731	675	7,080	7,755
H) EI-MS	1,745 36,657	341 1,303	2,086 37,965	2,918 39,132	1,000	- 3,918 - 41,280	2,167 47,165	3,097	2,167
NHH-IS				10.00 fa.00	107% ALM ALM		2000 No. 100		
MRC NATIONAL REVEN	1,356 (UE	80,475	82,031	1,757	98,410	100,167	1,976	110,988	112,884
HREV -	term wheth even				The second second		P10 - 100 - 010		waters were water
NREV-TAX TRIVY COUNCIL	and and that				4.mm (add) (0.01		A.47 (056) (877)	which that be in	alash Balli - 1988
PC .	1000 400 40v			Press, press, many			Art 10.0 and	-	-
COL ECC				WERE SALE AND		Webs from adde			
PUBLIC WORKS									
PIJ PIJ-PTS	3,944 3,944	4,366 4,366	8,310 8,310	5,511 5,511	2,146 2,146	7,657 7,657	5,508 5,508	2,630 2,630	8,138
CMHC	2,077	1,849	3,126	2,730	2,054	4,784	3,054	2,161	5,215
NCC Regional econo	160 MIC EVEN		160	250	March Wildle Addate	250	425	when well and	425
REETONNE ECONC REE	лпс вхенг 	771	771	more while with	957	957		5,588	5,588
SOLENCE AND TH		1 750			1 552	1		1 005	1.005
ST Nac	159,801	1,358 66,301	1,358 226,182	193,362	1,553 104,012	1,553	240,469	1,895 120,223	1,895
HRE-SIR	145,143	66,301	211,444	174,838	103,946	278,784	218,878	120,149	339,027
HRC-STI HSERC	14,658 3,346	159, 525	14,658 162,871	18,524 4,312	66 197,491	18,590 201,903	21,591 5,686	74 221,395	21,665
	4044 0470 0470		A set the 2 to 2 to 3	and and and					
SECRETARY OF S	STATE		And they are			ware sholl some			
SECS-OL	40-0 10-00 mas			1999 Mar. 1444	W-100 (0.476 (0.487			white were sum	
SECS-ES SECS-TRA	0.00 0.00 shar		1000 - 1000 - 1000						
SLUS-CIT			1.00 1.00 1.0	and and sold			WARE And while	and the same	
ISC SOLICITOR GENI	POT		and that may	THE DEC AT		PBF 1-1 1.00			And the second second
SGEN GEN	- 1711111 	1.07 MILL 0.07		813 Mili Ann		100 Aug 101		8.47 S.48 S.48	mits over entry
-SGEN-ADM Romp		71		150	1.45	205	150	150	
SUPPLY AND SEP		ť L	71	150	145	295	150	150	506
SS CURR	103	14,288	14,391	113	14,448	14,561	124	14,450	14,574
SS-SUPP STCAN	193	14,288	14, 391		14,448	14,561	124	14,450	14,574
TERNSPORT	0 540	7 545	10.110		10 005	00.000	A	10 000	
TPT-ADM	8,519 1,136	7,598 4,817	16,117 5,153	9,238 2,009	10,825	20,063 8,233	6,225 2,142	16,056 6,978	22,281
TPT-MAR	7,066	1,447	8,513	6,463	2,464	8,927	2,890	7,021	9,911
TPT-AIR TFT-SUR	303	2,099 35	2,407 44	740 26	2,103 34	2,843 60	1,167 26	1,997 60	3,164
CTC .		····							~~~~
TREASURY BOARI)			440 FT6 - 116	were only depty			was one pup	
TB-ADM		dan son was		100. UTD 100	anna adha dipili anna ang apili	Mile spile and	with mins over	and the size	
A DESCRIPTION OF THE REAL PROPERTY AND		the state ware state and along it is used that it	to the set of the lot of the set of the set of			and that had not see one see that the	1,360,767		

INTRAMURAL, BY DEPARTMENT OR AGENCY

DEPARTMENT		1980-81			1981-82	ar na an an an an an an an an an		1982-83	
OR AGENCY	R&D	RSA	TOTAL	R8. D	RSA	TOTAL	·R&D	RSA	TOTAL
AGRICULTURE									
AGR	133,922	6,522	140,444	148,792	7,453	156,245	174,077	8,274	182,351
AGR-ADM AGR-DEV	127,982	4,200	4,200	142,036	4,783	4,783	164, 179	921	165, 199
AGR-RI AGR-CGC	4,590	1, 529	4,598	5,183	1,858	5,103	7,981	2,269	7,981
COMMUNICATION	1S				70	49,739	51,905	193	52,985
COMM COMM-COMM	(1) Z (1)/1	70 70	41,810 41,810	49,669 49,669	70	49,739	51,905	100	52,835
NFB	382	252 13,909	634	427 2,048	176	603 16,842	497	200 16,320	697
NMUS CONSUMER AND	CORPORATE		14,002	27040	147134	101046	1,365		
0.011		14,545	14,545		14,972	14,972		17,731	17,731
CCA-CON CCA-COR		12,375	12,375		12,537	12, 537		14,001	14,881
ECONOMIC DEVI EMPLOYMENT &		ON							
ENERGY MINES	& RESOURCE	ES	100 007	01 077	70.070	171 500	119,100	47,048	166, 149
EMR EMR-ENER	72,857 420	36,346 329	109,203 749	91,637 1,045	39,932 239	131,569 1,284	3, 184	682	3,866
EMR-MES	72,437	36,017	108,454	90,592 270	39,693	130,285 270	115,916 311	46,366	162,282 311
AECB	240 68,819	5,310	240	82,431	5,528	87,959	95, 428	7,154	102,582
NEB ENVIRONMENT	400 A. 400	382	382		495	495		501	591
ENV	67,287	135,352	202,639	78,222	151,492	229,714	96,942	184,727	281,669
ENV-ADM ENV-ES	399	1,180	1,579	432	1,189	1,621 226,893	475	1,207	1,682
ENV-EPS	2,306	3,047	5,353	2,398	2,535	4,933	2,023	2,605	5,528
ENV-AES ENV-ECS	18,091	93,740	111.831 47,242	21,796	107,744 34,100	129,540	25,923	134,380	160,303 59,242
ENV-FOR	30,793	4,750	35,543	36,584	4,843	41,427	48,036	5,543	53,579
ENV-PC EXTERNAL AFF	109 AIRS	982	1,091	119	1,081	1,200	152		
CIDA IDRC	146	414 240	560 3,291	170 3,690	484 269	654 3,959	187	530 308	717
IJC	3,851	2,249	2,249	3,056	2,657	2,657		2,786	2,786
FINANCE FISHERIES ANI	DOCEONS								
F&O	50,209	53,678	103,887	54, 871	59,224	114,095	53,108	78,893	124,091
F&O-FM INDIAN AFFAII	50,209 RS & NORTHE	53,678 ERN DEVELO	103,887 PMENT	54,871	59,224	114,095	53,108	70,893	124,001
IAND	1,383	753	2,136	1,596	758	2,354	1,761		2,599
IAND-NA INDUSTRY TRA	1,383 DE AND COMP	753 MERCE	2,136	1,596	758			0.00	
ITC	6,200 6,150		6,200	7,832		7,032	8,526 8,466		8,526
ITC-TI ITC-GO	50		50	55		55	68		60

INTRAMURAL, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82	erne vier beite 1000 milit 1.455 gest, mas wen		1982-83	
OR AGENCY	R&D	RSA	TOTAL	R&D			R&D	RSA	TOTAL
IUSTICE									
ABOUR									
ATIONAL DEFE	NCE	75.4	71,793	23 210	0.00	75 504	01.0.40	070	02.010
NDEF NDEF-SER	71.039	7.34	71,793	72,718 72,718	866 866	75,584 73,584	SL/040 SI/040	970 970	82,010
ATIONAL HEAL	TH AND WEI	FARE	111103	(C)(10	000	107.001	017040	21.4	027010
NHW		26,538	38,947	14,002	28,692	42,694	15,348	34,659	50,007
NHW-HSS	318	227	545	434	210	644	15,348 448	227	675
NHW-MS NHW-HP	1,745		1,745 36,657 1,556	2,918		2,918	2,167 12,733 1,821	100	2,167
NHM-HP	10,346	26,311	36,657	10,650	28,482	39,132	12,733	34,432	47,165
MRC	1,435	121	1,556	1,618	139	-1.757	1,821	155	1,976
ATIONAL REVE									
PRIMY COUNCIL PUBLIC WORKS									
PLI PLI	1.319	2,626	3.944	252	5,158	5 511	777	4,731	5,508
PW PW-PTS	1.318	2,626	3,944	353 353	5, 152	5.511	727	4,731	5,508
CMHC NCC	1,380	697	2,077	1,900	830	2,730	777 777 2,110	944	3,054
			160	1,900	250	2,730 250		425	425
REGIONAL ECON		4SION							
BOIENCE AND T			150.001		10.000			-	
NRC		33,619	159,801	153, 342	40,020	193,362	194, 891	45,578	240,469
NRC-SIR NRC-STI	126,182	18,961 14,658	145,143 14,653	153, 342	21,496 18,524	174,838 18,524	194,891	23,987 21,591	218,878
NSERC	2,677	669	3,346	3,450	10,024	4,312	194, 891 4, 548	1,138	
SECRETARY OF		000	0,040	0,400	004	4/014	4,040	17130	1,000
SOLICITOR GEN									
RCMP			Ø	150	AND AND INCO.	150	150		150
SUPPLY AND SE									
SS-SUPP	87	16	103	96	17	113	105	19	124
TRANCRORT		16	103	96	17	113	105	19	124
TPT	1 590	6 921	9 519	2 7.4.4	6 494	9,238	4 250	1 069	6,225
TPT-ADM	1,598 693	6,921 443	8,519 1,136	2,744 1,216 945	797	2,009	4,256 1,184 2,024	958	2,142
TPT-MAR	602	6,464	7,066	945	5,518	6,463	2,024	866	2,890
TPT-AIR	303	5.9	388	583	157	740	1,048	119	
		9	9		26	740 26		26	26
TREASURY BOAR	D								
TOTAL	665.334	342 143	1,007,477	771 229	291 672	1,152,860	912 769	117 990	1 260 767
TOTUP	0007004	0467140	120012417	1117660	3012036	171347090	JIC/(0J	HHL 330	11 2001 (00

INDUSTRY, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAI
GRICULTURE									The are pay and and bee been a
AGR	3,060		3,060	3,764		3,764	5,082		5,082
AGR-DEV CDC	3,060	196	3,060	3,764	1,100	3,764 1,100	5,082	1,300	5,082
OMMUNICATIONS COMM	16,197			22,100			0 405		
COMM-COMM	16, 197		16,197 16,197	22,108 22,108	100 575 das	22,108 22,108	8,465 8,465	400 - 400 - 100	8,465
NMUS Onsumer and C	ORPORATE	318 AFFAIRS	318	10.00 million appendix	337	337		389	389
CONOMIC DEVEL MPLOYMENT & I	OPMENT								
NERGY MINES &	RESOURCE	IS							
EMR-ENER	21,203	5,610 209	26,813 16,814	27,129	6,676 2,002	33,805 20,585	26,054 15,485	9,855 3,061	35,90
EMR-MES	4,598	5,401	9,999	8,546	4,674	13,220	10,569	6,794	17,363
AECB AECL	270	12,590	270 20,245	411 11,155	12,413	411 23,568	1,100 12,248	14,695	26,94
NVIRONMENT ENV	13,217	1,419	14,636	14,077	1,617	15,694	12,224	1,477	13,70
ENV-ES	13,089	1,355	14,444	13,936	1,547	15,483	12,066	1,399	13,465
ENV-EPS ENV-AES	2,102	285 473	2,387	2,200	240 634	2,440 634	3,435	240	3,67:
ENV-ECS ENV-FOR	187 10,300	597	784 10,800	185	673	858	231	741	972
ENW-PC	128	64	19,560	141	70	11,551 211	8,400 158	78	8,401 230
XTERNAL AFFAI CIDA	R5	22,400	22,400		24,640	24,640		27,104	27,104
INANCE ISHERIES AND	OCEANS								
F&.O	3,350	1,965	5,315	5,238	3,423	8,661	7,092	6,164	13,250
F&O-FM NDIAN AFFAIRS		1,965 RN DEVELO		5,238	3,423	8,661	7,092	6,164	13,250
IAND IAND-NA	228 228	21	249 249	209 209	23	232	170 170	25 25	195
DUSTRY TRADE	AND COMM	TERCE							
ITC-TI	84,184 83,416	2,728	86,912 86,144	128,095	3,590	131,685	155,883	4,273	168,159
ITC-GO JSTICE	768		768	682	4848 days 1946	682	600	and over him	60
ABOUR	0.17								
ATIONAL DEFEN NDEF	22,972		22,972	29,708		29,708	47,093		47,093
NDEF-SER ATIONAL HEALT	22,972	FODE	22,972	29,708	100 million and	29,708	47,093		47,093
MHM	122	360	482	245	293	538	325	310	635
NHW-HSS NHW-HP	107	63 297	170 312	142 103	29 264	171 367	180 145	10 300	198
ATIONAL REVEN			0.15	100	E 0.4	00.	140	000	- total
RIVY COUNCIL UBLIC WORKS									
PW PW-PTS	2,937	1,125	4,062	1,045	908 908	1,953	1,553	990 990	2,543
CMHC	330	550	880	660	1,000	1,660	725	1,005	1,730
EGIONAL ECONO CIENCE AND TE		ISTUN							
NRC-SIR	46,020	666 666	46,686	74,090	963	75,053	85,775	812	86, 587
ISERC	1,639		1,639	74,090 2,839	963 400	75,053 3,239	85,775	812	86,587 4,392
ECRETARY OF S DLICITOR GENE									
RCMP JPPLY AND SER	42		42	60	The state	60	90		96
SS	10,552	1,780	12,332	10,683	1,742	12,425	10,685	1,742	12, 427
SS-SUPP RANSPORT	10,552	1,780	12,332	10,683	1,742	12,425	10,685	1,742	12,427
TPT	3,240	3,688	6,928	5,816	4,053	9,869	10,849	4,113	14,962
TPT-ADM TPT-MAR	2,595 645	881 708	3,476	3,952	1,370 580	5,322 2,444	4,428	1,536 580	5,964
TPT-AIR REASURY BOARD	NUT 104 101	2,099	2,099		2,103	2,103	with spirit system	1,997	1, 997
		55,416	292,634	777 773	67 170	100 510	700 750	74 701	AC 4 000
OTUP CONTRACTOR	237,218	337416	6067634	337,332	63,178	400,510	389,358	74,701	464,059

UNIVERSITY, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

OR					1981-82			1982-83	a life and an
AGENCY	R&D	RSA	TOTAL	R8.D	RSA	TOTAL	R8.D	RSA	TOTAL
AGRICULTURE									
AGR	3,752		3,752	4,369		4,369	5,554		5,554
AGR-DEV CDC	3,752	102	3,752 102	4,369	700	4,369 70 0	5.554	380	5,554
COMMUNICATIONS COMM	975		975	1,025		1,025	968	-	958
COMM-COMM	975		975	1,025	And who when	1,025	960		068
NMUS Consumer and co	RPORATE	318 AFFAIRS	318	and the set	337	337	40.00 ×	389	
ECONOMIC DEVELC	PMENT								
EMPLOYMENT & IM Energy mines &	RESOURCE	5							
EMR-ENER	2,862	141	3,003	4,193 130	171	4,364 130	4,567 130	102	4,749
EMR-MES	2,647	125	2,772	4,063	171	4,234	4,437	182	4,619
AECB AECL	219 1,781	24	219 1,805	$364 \\ 1,900$	39	$364 \\ 1,939$	550 2,136	38	559 2,166
ENVIRONMENT	3,200	332	3,532	3,385	496	3,881	3,560	559	4,113
ENV-ES	3,123	324	3,447	3,301	486	3,787	3,466	548	4,014
ENV-EPS Env-aes	515 614	211	515 825	315 732	358	315 1,090	315 775	498	315 1. 193
ENV-ECS ENV-FOR	764 1,230	113	877 1,230	836 1,418	128	964 1,418	897 1,479	1-12	15837
ENV-PC	77	8	85	84	10	94	94	10	194
EXTERNAL AFFAIR CIDA		729	729		801	801	prop Anto wave	382	882
IDRC FINANCE	188	witten advent fraind	188	422	80	592	851	123	074
FISHERIES AND C									
F&0 F&0-FM	1,220	8	1,228	1,197 1,197	9	1,206	1,558 1,558		1,558
INDIAN AFFAIRS	& NORTHE		PMENT	722					
IAND IAND-NA	577 577		577 577	722		722	815 815		815 815
INDUSTRY TRADE	AND COMM 971	ERCE	971	1,376	Aug. 1999, 1998	15376	1,350		1,359
ITC-TI	936	radio dillos such	936	1,350	100 000 000	1,350	1,350	ALSO 1.00	1,350
ITC-GO JUSTICE	35		35	26	and rate and	26	Added Autom Server		Ú
LÁBOUR NÁTIONÁL DEFENC	T								
NDEF	2,805		2,805	4,210	was also was	4,218	5,026		5,926
NDEF-SER NATIONAL HEALTH	2,805 AND WEL	FARE	2,805	4,210	where we are made	4,210	5,026	with stars with	5,026
NHW	5,275	1,424	6,699	5,585	1,093	6,678	5,254	1,122	6,376 5,324
NHW-HSS NHW-HP	4,835 440	1,321 103	6,156 543	5,344 241	991 102	6,335 343	4,324 930	1,000	1,052
MRC National Revenu	75,214	2,283	77,497	92,054	2,983	95,837	103,745	3,362	107,107
PRIVY COUNCIL									
PUBLIC WORKS PW	1111 1111 LANS	43	43	10	5	15	10	NAME AND TAX	18
PW-PTS CMHC	23	43	43 26	10 57	5	15 59	10 70	5	10 75
REGIONAL ECONOM	1IC EXPAN		20	01	low	0.0	10	-	1.5
BCIENCE AND TEC NRC	HNOLOGY 14,963	701	15,664	20,194	797	20,991	23,824	895	24,719
NRC-SIR	14,963 138,848	701 13,419	15,664	20,194 170,192	797 17,467	20,991 187,659	23,824 189,939	895 19,531	24,719 209,470
SECRETARY OF ST	TATE	13,413	156,601	170/102	167406	101,007	100, 909	19:001	6005 (m.)
SOLICITOR GENER RCMP		with which works	29	35		85	60		68
SUPPLY AND SERV SS		281	1,298	982	318	1,300	982	318	1,300
SS-SUPP	1.017	281	1,298	204 282	318	1,300	982	318	1,300
TRANSPORT TPT	161	85	246	320	63	383	353	69	422
TPT-ADM TREASURY BOARD	161	85	246	320	63	383	353	69	422
TOTAL	254,080	19,893	273,973	312,642	25,361	338,003	351,164	28,266	379,430

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES NON-PROFIT INSTITUTIONS, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
AGENCY	P.&.D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
GRICULTURE									
AGR	397		397	502		502	681	*** ***	681
AGR-DEV CDC	397	390	397 300	592	400	502 400	681	400	681 400
OMMUNICATIONS NMUS		478	478		506	506	NO 994 888	584	584
CONSUMER AND CO CONOMIC DEVELO MPLOYMENT & IN	OPMENT MIGRATIO	AFFAIRS 4							
NERGY MINES & EMR	RESOURCES 767	38	805	1,926	32	1,958	2,426	30	2,456
EMR-ENER EMR-MES	17 750	8 30	25 780	1,710	AND 100 -00	1,710	2,110		2,110
AECB	3		3	216 5	32	248	316	30	346 10
HVIROHMENT ENV	2,724	190	2,914	3,660	224	3,884	5,630	251	5,881
ENV-ES	2,724	32	2,756	3,660	50	3,710	5,630	56	5,686
ENV-EPS ENV-AES	236 13	16	236 29	75	32	75 32		36	75 36
ENV-ECS ENV-FOR	2,475	16	16 2,475	3,585	18	18	5,555	20	20 5,555
ENV-PC		158	158	57565	174	174		195	195
EXTERNAL AFFAII	(5 19	with more when	19	73	ant eres eres	73	162	upp and Adh	162
INANCE ISHERIES AND (TORONG								
F&O	I,485	325	1,810	1,479		1,479	1,721		1,721
F&O-FM NDIAN AFFAIRS	1,485 & NORTHEI	325 RN DEVELOP	1,810 MENT	1,479		1,479	1,721		1,721
IAND IAND-NA	56 56		56 56	58		58 58	62 62		62
NDUSTRY TRADE	AND COMMI	ERCE							
ITC ITC-GO	375 375		375	375 375		375 375	400 400		400 400
USTICE ABOUR									
ATIONAL DEFENS									
NTIONAL HEALTH NHW	I AND WELI 911	FARE 772	1,683	771	740	1,511	891	735	1,626
NHW-HSS	860	772	1,632	685	740	1,425	706	735	1,441
NHW-HP MRC	51	135	51 135	86	157	86 157	185	177	185 177
ATIONAL REVEN	JE								
UBLIC WORKS									
PW PW-PTS		49 49	49 49		34	34		35	35
CMHC	49	20	69	65	80	145	70	80	150
REGIONAL ECONOR	CHNOLOGY	DI ON							
NRC-SIR	140		140	1,064 1,064	66	1,130	1,017 1,017	74	1,091
NRC-STI			0		66	66		74	74
NSERC SECRETARY OF ST	1,558 TATE	834	2,392	1,722	975	2,697	2,065	1,160	3,225
OLICITOR GENEL	RAL								
SS	75		126		48	I 48	100	48	148
SS-SUPP TRANSPORT	75	31	106	100	48	148	100	48	148
TPT	25		25	24		24	50		50
TPT-SUR TREASURY BOARD	25		25	24	66. FT 66	24	50		50
TOTAL	8,584	3, 172	11,756	11,824	3,262	15,086	15,285	3,574	18,859

PROVINCIAL & MUNICIPAL GOVERNMENTS, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		198 0 -81			1981-82			1082-03	
OR AGENCY	R&D	RSA	TOTAL	R3.D	RSA	TOTAL	R&D	2:30	rorat
GRICULTURE									
AGR AGR-DEV	1.692		1,692 1,692	295 295		295 295	1770 1880 1880 2771 1872 1880	· · · · ·	1
OMMUNICATIONS		2, 388	2,388	the first top	2,528	2,528		2,017	2,912
ONSUMER AND C CONOMIC DEVEL MPLOYMENT & I NERGY MINES &	OPMENT MMIGRATIO	AFFAIRS N	2,500		L / 2010	2,560			
EMR EMR-ENER	28,305 28,305		28,305 28,305	44,330 44,283	the set of	44,338 44,283	54,250 54,250	1000 Mod 4000	- 54,253 - 54,258
EMR-MES AECB	23		0 23	47	100 100 100	47	20	a na mana anna	20
NVIRONMENT								4 027	
ENV-ES	229 228	4,893 4,893	4,322 4,321	300 299	4, 525 4, 525	4,825 4,824	272 271	4, 873 -4, 873	5,149 5,149
ENV-EPS ENV-AES	50	117	50 117	60	120	60 120	60	123	65 123
ENV-ECS ENV-FOR	58 120	3,976	4,034 120	99 140	4,405	4,504 140	108 103	4,750	- 4, 850 183
ENV-PC XTERNAL AFFAI	1		1	1	WHE ARE STOL	1	1	1011 Aug - 101	I
INÀNCE									
ISHERIES AND F&O	OCEANS	20	20	-	74	74	-	198	198
F&0-FM NDIAN AFFAIRS	8 NORTHE	20 RN DEVELOP	MENT 20	1000 0.00 mgs	74	74	Table Taper Land	190	198
NDUSTRY TRADE			1, 158		840 840 cm	9			0
ITC-TI	1,158		1, 158			0			8
USTICE ABOUR									
IATIONAL DEFEN NDEF	CE 120		129	150	1.000 (page 1.000)	150	207		207
NDEF-SER ATIONAL HEALT	120		120	150	The rest was	150	207		207
NHW	93	49	142	89	39	128	90	36	126
NHW-HSS NHW-HP	93	47	140 2	89	38	127	90	35	125
ATIONAL REVEN RIVY COUNCIL	UE								
UBLIC WORKS			0			0	48	-	49
PW-PTS			0			0	40		49
CMHC Regional Econo	28 Mic Expan		33	55	50	105	55	55	110
REE SCIENCE AND TE	CHNOLOGY	77 I	771	and the	957	957		5,598	5,588
NRC NRC-SIR	68 68		68 68	677 677		677 677	759 759		759 759
SECRETARY OF S SOLICITOR GENE SUPPLY AND SER	TATE RAL		00	011		011	100		130
RANSPORT TPT	3	92	95		237	237		280	286
TPT-ADM TREASURY BOARD	3	92	95	THE DAY UND	237	237	ana am ana	288	288
TOTAL	31,719	7,418	39,137	45,896	8,410	54,306	55,693	13,939	60.632

FOREIGN, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
GRICULTURE									
AGR AGR-DEV	29 29	4	33 29	688 688	4	692 688	609 609	4	613 609
AGR-CGC		4	4		4	4		4	4
COMM	1,589		1,589	3,267	and and all	3,267			9
COMM-COMM Consumer and C		AFFAIRS	1,589	3,267	ARA MEN HERE	3,267			0
CONOMIC DEVEL MPLOYMENT & I		4							
NERGY MINES & EMR			1,385	1,229	22	1,251	2,930	22	2,952
EMR-ENER	289	15	394		-	0			0
EMR-MES AECL	1,064 259	17	1,081 259	1,229 586	22	1,251 586	2,930 554		2,952 554
NVIRONMENT ENV	265	592	857	198	618	806	213	620	833
ENV-ES	265	592	857	188	618	806	213	620	833
ENV-EPS ENV-AES	122 21	567	122 588	15	590	15 590	15	598	15 590
ENV-ECS ENV-FOR	14 108	25	39 108	15 158	28	43 158	18	30	48 180
XTERNAL AFFAI	RS	96	8,545	9,539	105	9,644	10,875	115	10,991
CIDA IDRC	8,449 15,793	656	16,449	18,763	1,006	19,769	22,476	1,234	23,710
INANCE ISHERIES AND	OCEANS								
F&0 F&0-FM	90 90		90 90	29 29	any and one	29 29	64 64		64 64
NDIAN AFFAIRS	& NORTHE			20		2.9	04		0.4
INDUSTRY TRADE IUSTICE	AND COMM	ERCE							
ABOUR ATIONAL DEFEN	02								
NDEF	2,770		2,770	1,972		1,972	2,573	and you and	2,573
NDEF-SER ATIONAL HEALT	2,770 H AND WEL	FARE	2,770	1,972		1,972	2,573	har ven ann	2,573
NHW-HSS	504 48		504 48	1,923		1,923	838		838
NHW-MS	341		341	1,000		1,000			9 838
NHW-HP MRC	2,812	31	115 2,843	894 3,177	39	894 3,216	838 3,580	44	3,624
ATIONAL REVEN RIVY COUNCIL	UE								
UBLIC NORKS	=	110	115		115	115		2	2
PW-PTS	5	110	115 115	AND -100 MIG	115	115		22	22
CMHC Regional econo	MIC EXPAN	SION 3	3		10	10	and you want	10	10
SCIENCE AND TE		and other more	1,358	1,553	1000 No. 1000	1,553	1,895		1,895
NRC	1,965		1,965	2,249	ANO 200	2,249	1,895		1,895
NRC-SIR NSERC	1,965	1,711	1,965 3,227	2,249 1,820	2,076	2,249 3,896	2,722	2,321	4,389
SECRETARY OF S SOLICITOR GENE	TATE								
SUPPLY AND SER									
TRANSPORT TPT	74	33	77 3		3	3	well state that	Ann min web	0
TPT-ADM TPT-MAR	74	3	3 74		3	3 Ø	6.00 (000)		9
REASURY BOARD			1			0			
TOTAL	38,831	2.238	42,069	46,983	3,998	50,981	51,316	4,373	55,689

OTHER, BY DEPARTMENT OF AGENCY

(\$ THOUSANDS)

RSn 1,741 1,845 1,85	1, 123 1, 123 28 . 334 2, 751 2, 715 97 1, 970 641 4 39	R&D I 25 I, 928 49 130 657 620 285 99 222 14	RSA 917 917 337 37 37 2,557 2,557 2,557 2,557 2,557 2,602	TOTAL 917 917 462 1,965 1,965 49 130 3,214 3,171	R&D 14 2,334 2,334 2,334 80 139 744 703	R5A 339 37 37 2, 593	139
- 1,741 - 313 - 313 - 313 - 313 - 313 - 314 14 - 2,337 - 34 14 - 2,337 - 34 14 - 2,337 - 34	1,741 427 1,123 1,123 23 .334 2,751 2,750 2,751 2,750 2,750 2,751 2,750 2,750 2,750 2,750 2,751 2,750	1,928 1,928 49 130 657 620 285 99 225 14	917 337 37 2,557 2,557 47	917 462 1,965 1,965 49 130 3,214 3,171	2,334 2,334 80 139 744	37 37	0 403 2,371 2,371 80 139
- 1,741 - 313 - 313 - 313 - 313 - 313 - 314 14 - 2,337 - 34 14 - 2,337 - 34 14 - 2,337 - 34	1,741 427 1,123 1,123 23 .334 2,751 2,750 2,751 2,750 2,750 2,751 2,750 2,750 2,750 2,750 2,751 2,750	1,928 1,928 49 130 657 620 285 99 225 14	917 337 37 2,557 2,557 47	917 462 1,965 1,965 49 130 3,214 3,171	2,334 2,334 80 139 744	37 37	0 403 2,371 2,371 80 139
ITE AFFOILS TTION IRCES SO 63 SO 20 14 2,337 SO 2,532 SO 4,33 4 SO 4,13 A SO 4,13 A SO 4,13 A SO SO SO <td>1, 123 1, 123 28 . 334 2, 751 2, 715 97 1, 970 641 4 39</td> <td>1,928 1,928 49 130 657 620 285 99 225 14</td> <td>37 37 2,557 2,557 2,551 47</td> <td>1,965 1,965 49 130 3,214 3,171</td> <td>2,334 2,334 80 139 744</td> <td>37 37</td> <td>2,371 2,371 80 139</td>	1, 123 1, 123 28 . 334 2, 751 2, 715 97 1, 970 641 4 39	1,928 1,928 49 130 657 620 285 99 225 14	37 37 2,557 2,557 2,551 47	1,965 1,965 49 130 3,214 3,171	2,334 2,334 80 139 744	37 37	2,371 2,371 80 139
r TTION IRCES 30 63 30 7 34 14 2,337 30 2,532 57 43 21 1,840 38 413 4 34 5 16 47	1,123 20 .334 2,751 2,715 97 1,970 641 4 39	1,928 49 130 657 620 285 99 222 14	37 2, 557 2, 551 	1,965 49 130 3,214 3,171	2,334 80 139 744	37	2,371 80 139
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1,123 20 .334 2,751 2,715 97 1,970 641 4 39	1,928 49 130 657 620 285 99 222 14	37 2, 557 2, 551 	1,965 49 130 3,214 3,171	2,334 80 139 744	37	2,371 80 139
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50 2,332 57 43 21 1,840 08 413 4 34 5 16 47	2,712 97 1,970 641 4 39	628 285 99 222 14	2,551 47	3,171		2,593	
57 43 21 1,843 38 413 4 34 5 16 47	97 1,970 641 4 39	285 99 222 14	47			2,586	3,337
8 413 4 34 5 16 47	4 39	14	Anna 2012 and Anna	332 2,101	285 109	47	332
16 47			592	724	243 66	551	794 66
	115.5	37	6 40	43 136	41	7 49	48
			114	114	gudg Anna Anna	202	202
5 50 - 223 20 - 223	553	343	654	997	424	787	1,211
	OPMENT				2		5
	2	2	pro- and rate	5	S	P100 0100 0000	S
	312 312	143 143	4004 4005 7777 2788 7477 -000	143 143	1 43 1 43	NAME AND ADDR	143 143
74	74 74	69 69	And ware with	69 69	86 86	antes 40.00 prove	86 86
67 23		443	14	457	560	16	576 Ø
		443	14	457	560	16	576
0.7	0.7		20	20			0
- 97	97		29 65	29 29 75	10	76	0 86
XPANSION DGY				2.010		0.05	
		3,381 3,381	531 531	3,912	3,460	885	4 ,345 4,345
		515 515	60 6 0	575 575	515 515	60 60	575 575
		63 68	241 211	3 0 9 279	74 74	268 238	342 312
- 20	20	differ data ere	20	20	ana dana kata kata	20	20 10
54 6.302	10.561	7,959	5,596	13, 555	8,702	5,362	14,064
	30 223 30 223 STHERN DEVEL 223 COMMERCE 223 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 13 97 14 111 31 96	30 223 553 30 223 553 RTHERN DEVELOPMENT 2 2 2 COMMERCE 312 12 312 12 312 12 312 12 312 12 312 12 312 12 312 12 312 12 312 12 312 12 312 12 312 12 312 12 312 12 74 WELFARE 23 290 5 5 5 5 5 5 5 37 59 1.139 1.778 41 1111 552	30 223 553 343 30 223 553 343 RTHERN DEVELOPMENT 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 312 143 12 312 143 12 312 143 67 23 290 443 5 5 443 5 37 37 5 37 378 10 0GY 378 3,381 10 41 111 552	30 223 553 343 654 30 223 553 343 654 RTHERN DEVELOPMENT 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 312 143 12 312 143 44 74 69 WELFARE 5 29 5 29 29 5 29 29 5 29 29 5 29 29 5 13	30 223 553 343 654 997 30 223 553 343 654 997 2 $$ 2 2 $$ 2 2 $$ 2 2 $$ 2 2 $$ 2 2 $$ 2 2 $$ 2 2 $$ 2 2 $$ 2 2 $$ 2 2 $$ 2 2 $$ 2 2 $$ 312 143 $$ 143 12 $$ 312 143 $$ 143 12 $$ 74 69 $$ 69 74 $$ 74 69 $$ 69 862 -23 290 -443 14 457 662 -23 285 443 14 457 75 333 35 10 <td>39 223 553 343 654 997 424 30 223 553 343 654 997 424 2 2 2 2 2 2 2 2 2 2 12 312 143 143 143 12 312 143 143 143 12 312 143 143 143 14 312 1443 143 143 74 74 69 69 86 67 23 290 443 14 457 560 55 75 14 457 560 5 29 29 7 5 33 33 10 65 75 10 0GY 97 97 29 29 <</td> <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td>	39 223 553 343 654 997 424 30 223 553 343 654 997 424 2 2 2 2 2 2 2 2 2 2 12 312 143 143 143 12 312 143 143 143 12 312 143 143 143 14 312 1443 143 143 74 74 69 69 86 67 23 290 443 14 457 560 55 75 14 457 560 5 29 29 7 5 33 33 10 65 75 10 0GY 97 97 29 29 <	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT BY PERFORMER, 1980-1983

(\$ THOUSANDS)

PERFORMER	1980-	81	1981-	82	1982-	83
	\$	*	\$	%	\$	%
INTRAMURAL	665,334	(53.7)	771,228	(50.3)	912,769	(51.2)
INDUSTRY	237,218	C 19.1)	337, 332	(22.0)	389,358	(21.8)
UNIVERSITIES	254,080	(20.5)	312,642	(20.4)	351,164	(19.7)
NON-PROFIT INSTITUTIONS	8,584	(0.7)	11,824	(0.8)	15,285	(0.9)
PROVINCIAL & MUNICIPAL	31,719	(2.6)	45,896	(3.0)	55,693	(3.1)
FOREIGN	38,831	C 3.D	46, 983	C 3.D	51,316	(2.9)
OTHER CANADIAN	4,254	(0.3)	7,959	(0.5)	8,702	(0.5)
TOTAL	I,249,020	(100.0)	1,533,864	(100.0)	1,784,287	(100.0)

FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES BY PERFORMER, 1980-1983

(\$ THOUSANDS)

1980-	81	1981-	82	1982-83		
\$	%	\$	%	\$	%	
342,143	(78.2)	381,632	(77.7)	447,998	(77.5)	
55,416	(12.7)	63,178	(12.9)	74,701	(12.9)	
19,893	(4.5)	25,361	(5.2)	28,266	(4,9)	
3, 172	(0.7)	3,262	(0.7)	3,574	(0.6)	
7,418	< 1.7€	8,410	(1.7)	13,939	(2,4)	
3,238	(0.7)	3,998	(0.8)	4,373	(0.8)	
6,307	(1.4)	5,596	(1.1)	5,362	(0.9)	
437,587	(100.0)	491,437	(100.0)	578,213	(100.0)	
	\$ 342,143 55,416 19,893 3,172 7,418 3,238 6,307	342,143 (78.2) 55,416 (12.7) 19,893 (4.5) 3,172 (0.7) 7,418 (1.7) 3,238 (0.7) 6,307 (1.4)	\$ % \$ 342,143 (78.2) 381,632 55,416 (12.7) 63,178 19,893 (4.5) 25,361 3,172 (0.7) 3,262 7,418 (1.7) 8,410 3,238 (0.7) 3,998 6,307 (1.4) 5,596	$\$$ \varkappa $\$$ \varkappa 342,143 (78.2) 381,632 (77.7) 55,416 (12.7) 63,178 (12.9) 19,893 (4.5) 25,361 (5.2) 3,172 (0.7) 3,262 (0.7) 7,418 (1.7) 8,410 (1.7) 3,238 (0.7) 3,998 (0.8) 6,307 (1.4) 5,596 (1.1)	\$ % \$ % % % 342,143 (78.2) 381,632 (77.7) 447,998 55,416 (12.7) 63,178 (12.9) 74,701 19,893 (4.5) 25,361 5.2) 28,266 3,172 (0.7) 3,262 (0.7) 3,574 7,418 (1.7) 8,410 (1.7) 13,939 3,238 (0.7) 3,998 (0.8) 4,373	

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

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FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

DEDODTMEUT		1980-81		8 14 48 48 44 44 14 14 14 14 14 14 14 14	1981-82	1997 Wei Wei Wei der der anne wer wei die 1		1982-83	10 Mill Are we will bld your 607 Mill
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	extra- Mural	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE			a new oder were peer new output the even will doe of	the energy wave and a set of the	the special states which in the state of the states of the	All did diff me me ner me om me vid did i	an distant dal an ana ain ain isa isa isa 19		We had not not to a case of the we
AGR AGR-ADM	133,922	8,930	142,852	148,792	9,618	158,410	174,077	11.926	186,003
AGR-DEV	127,982	8,930	136,912	142,036	9,618	151,654	164, 179	11.026	176, 105
AGR-RI	4.590		4,590	5,103		5,103	7,981		7,981
AGR-CGC CDC	1,350	Siline weeks shape	1,350	1,653	Male was and	1,653	1,917	and only only	1,917
CLFB			non som sitte				PT0 2010 2010		14. (19. 19.
COMMUNICATION:	5 41,740	18,761	60,501	49,669	26,400	76,069	51,905	9,425	61,330
COMM-COMM	41,740	18,761	68,581	49,669	26,400	76,869	51,905	9,425	61,338
COMM-AC						Real Property and		Make Audit unit	deal had appy
CBC CRTC				www.enter.enter		***************************************		F 0. 1111 0.00	and also aver
NFB	382		382	427	4000 Fild 400	427	497		497
NLIB					erry and first				1864 4468 1919
NMUS	973	109	1,082	2,048	125	2,173	1,385	14	1,319
PA SSHRC		New rise was			Barry state state	and along a diff			area had area
CONSUMER AND	CORPORATE	AFFAIRS							
CCA				which views minit					wave more maps
CCA-ADM CCA-CON	ann dala 198	was one over	and draw and	were stars total	4079 - and 1070			ware were alle	and a short linear
CCA-COR	while must first	and other and							
CCA-CICP ECONOMIC DELE	LODMENT	100 - 10 - 10 - 10 - 10 - 10 - 10 - 10	Aller Steep lights	and does and	4440 4140 9900				
ECONOMIC DEVE: ED	LUPPENI		1111 AND				angle share with		men over field
EMPLOYMENT &									
E I E I-ADM		date was			wate over some				water from these
CEIC			Aug. 1997 (1991)			and 4-4 atta			
ENERGY MINES									
EMR EMR-ENER	72,857 420	55,550 45,431	128,407 45,851	91,637 1,045	80,735 64,706	172,372 65,751	119,100 3,184	92,561 71,975	211,661 75,159
EMR-MES	72,437	10,119	82,556	98, 592	16,029	106,621	115,916	20,586	136,502
AECB	240	535	775	270	829	1,099	311	1,760	2,071
AECL NEB	68,819	10,029	78,848	82,431	13,771	96,202	95,428	15,077	119,505
ENVIRONMENT									
ENV	67,287	20,049	87,336	78,222	22,267	100,489	96,942	22,643	119,585
ENV-ADM ENV-ES	399 66,779	19,809	399 86,588	432	22,004	432	475	22,349	475
ENV-EPS	2,306	3,082	5,388	2,398	2,950	5,348	2,923	4, 185	7,108
ENV-AES	18,091	769	18.860	21,796	831	22,627	25,923	884	26,807
ENV-ECS ENV-FOR	15,589 30,793	1,221 14,737	16,810 45,530	16,893 36,584	1,357	18,250 53,450	19,453 48,036	1,497	28,950
ENV-PC	109	240	349	119	263	382	132	294	426
EXTERNAL AFFA	IRS								
EA EA-CIA	are our one	and the second	may dark shill -	the table		aller aller som	dant num stab	and all only and	
CIDA	146	8,449	8,595	170	9,539	9,709	187	10,875	11,062
IDRC	3,051	16,116	19,167	3,690	19,354	23,044	4,576	23,606	28,182
IJC FINANCE	AND THE THE				Para very para	FRA FRA TW	Manual Annual Annual	and with all a	First Walk and
FIN				ann rua alla					
FIN-FEP	OCTONE			Pilo Pilo 440	PR0. 0000 4400	group database			
FISHERIES AND F&O	50,209	6,475	56,684	54,871	8,286	63, 157	53,108	10,859	63,967
F8.0-FM	50,209	6,475	56,684	54,871	8,286	63, 157	53,108	10,859	63,967
INDIAN AFFAIR				1 500	0.0.1	2 507	1 701	1,049	2 0 10
IAND IAND-IIA	1,383	863	2,246	1,596	991	2,587	1.761	1,049	2,810
IAND-NA	1,383	863	2,246	1,596	991	2,587	1,761	1,049	2,810
INDUSTRY TRAD			07 300	7 072	120 000	177 001	0 520	157 770	166 200
ITC ITC-TI	6,200 6,150	87,000 85,822	93,200 91,972	7,032 6,977	129,989	137,021	8,526	157,776	166,302
ITC-TOUR	1984 - 1980 - 1997	FOR HERE WERE	Find Find with	FOR FOR 104	1104 1104 1077				
ITC-GO	50	1,178	1,228	55	1,083	1,138	60	1,990	1,060

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

NUDADENENE		1939-81			1981-82			1982-83	
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTEA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE								a ma um ma an ar a	
JUST	100	then and other	1992 400 - 400	NAME AND TAKE		1.100 EAST 0710		AND 2011 1-10	-
JUST-ADM JUST-CUIO	And the case		and and area	NAME AND ADDR	and the second		400 Min - 10	1000 1000 1000	
CHRC	tente surre aqua			Real Anna 1 ag			1000 Aug		tells the
LRC LABOUR							which which which		
LAB NATIONAL DEFEN			And this shift	Well from which		truth shadt weap			which there is not
NDEF	71,039	28,741	99,788	72,718	36, 109	108,827	81,848	54,985	136,025
NDEF-SER NATIONAL HEALI	71,039 M AND UEL	28,741 FARE	99,780	72,718	36,109	108,827	81,040	54,985	136,025
NEW	12,409	7,172	19,581	14,002	9,056	23,058	15,348	7,958	23,300
NHW-ADM NHW-HSS	318	5,948	6,266	434	6,289	6,723	448	5,300	5,748
NHW-MS	1,745	341	2,086	2,918	1,000	3,918	2,167	Mana onan onan	2,167
NHW-HP NHW-IS	10,346	883	11,229	10,650	1,767	12,417	12,733	2,658	15,39:
MRC	1,435	78,026	79,461	1,618	95,231	96,849	1,821	107,325	109,140
NATIONAL REVEN	(UE		1000 0000 (c.)	400 100 100					
NREV-TAX	atra 100 ann	which spray second	and sold sold	and the and		And any cost			100 040 1M
PRIVY COUNCIL	ally your sea-	100 100 mm					the test shift	100.000 100.	
PC COL		100.0 AUX	and all and any	And samp app			the first shift	and and age	
ECC	1111 - 1111 - 1111-			this way ways				ema ema ema	
PUBLIC WORKS PW	1,318	2,942	4,269	353	1,855	1,408	777	1,603	2,380
PW-PTS	L.318	2,942	4,260	353	1,055	1,408	777	1,603	2,380
CMHC NCC	1,380	435	1,815	1,900	847	2,747	2,110	930	3,040
REGIONAL ECONO	DMIC EXPAN	45 I ON							
REE SCIENCE AND TE	CHNOLOGY		and and the	we can and	Auch May Will	All And and			and make take
ST	want with Mills	1,358	1,358		1,553	1,553		1,895	1,895
NRC-SIR	126,182 126,182	63,795 63,795	189,977 189,977	153,342 153,342	101,655	254,997 254,997	194,891 194,891	117,557 117,557	312,448 312,448
NRC-STI	0.00			100 - 100 - 100	lines which other		many and they	were also and	
NSERC	2,677	143,561	146,238	3,450	176,573	180,023	4,548	197,936	202,484
SECRETARY OF 9									
SECS SECS-OL	400 877 400	9999. 0900 ulus		davade MINTE Allada			and the second	4400 4440	1973 Mile 4844
SECS-ES		1000 4000 4000		The rest area			and the same	enna sumo pupp	- 1 - mar
SECS-TRA	and and the	ente atta data	many spectra rates	Orbit some avera			which which which		
SECS-CIT PSC				Piller alment speed		and the state	within white views	and the test	
SOLICITOR GENE	ERAL					1968 Auch (Rug		and some state	
SGEN SGEN-ADM			and this over	100 VIA 000		which doub strong strong	the supp (ball	and and the	the two and
RCMP		71	71	150	145	295	150	150	30
SUPPLY AND SEE SS	RMICES 87	12,085	12,172	96	12,280	12,376	105	12,282	12,38
SS-SUPP	87	12,085	12,172	96	12,280	12,376	105	12,282	12,38
STCAN TRANSPORT				and the state	Annah manah marar	who fails nam	And Mile area	nue velé nue	
TPT	1,598	3,634	5,232	2,744	6,228	8,972	4,256	11,326	15,58
TPT-ADM TPT-MAR	693 682	2,890 719	3,583 1,321	1,216 945	4,340 1,864	5,556 2,809	1,184 2,024	4,855 6,421	6,03
TPT-AIR	383	man man water	303	583		583	1,048	run mitt run	1,048
TPT-SUR CTC		25	25	and the case	24	24		50	50
TREASURY BOARI		ener ends 400			www.collin.ohts	THE COLUMN	and fun the		
TB	har van den		agen and units	they been and					
TB-ADM		- ma anna suite	THERE PLAN THE A	With when they				450 MB1 450	man run ann

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT

IN CANADIAN INDUSTRY

EY DEPARTMENT OR AGENCY, 1980-1983

DEPARTMENT	19	80-81	19	31-82	19	82-83
OR	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
AGRICULTURE	and the and and the and the off	way and may the set that and well the data this hills	and and the set of the last and the	and any one off the state of the part of the state of the		
AGR		3,060		3,764		5,082
AGR-ADM AGR-DEV		3,060		3,764		5,082
AGR-RI		5,000		07104	and very field	
AGR-CGC						
CDC					ana var ard-	
CLFB COMMUNICATIO	NC.	and over many		and all all		stast units during
	9,231	6,966	11,738	10,370	2,305	6,160
COMM-COMM	9,231	6,966	11,738	10,370	2,305	6,160
COMM-AC		ABBA ABBA ABBA	www.ana.wav	will some filte		455.000 000
CBC CRTC		ama ama	ander sime wars	and the same	were shall similar	ana 200 000
NFB						
NLIB						
NMUS				400 and and		
PA SSHRC						
CONSUMER AND		TE AFFAIRS				
CCA			www.ana.abat	and even shot	and over field	wave shall block
CCA-ADM		AND 100 - 100		1999 Allin 694		
CCA-CON CCA-COR						
CCA-CICP				AND 140 140		
ECONOMIC DEV	ELOPMENT					
ED			water which within	970 udo 674		
EMPLOYMENT &	IMMIGRH	TION		and the All		
EI-ADM	that will offer					
CEIC				were also onto	sheet only and	
ENERGY MINES						
EMR EMR-ENER	16,274	4,929	16,302	10,827	11,637	14,417
EMR-MES	10,214	4,598	16,302	2,281	11,637	10,569
AECB	4010 APR 1884	270		411		1,100
AECL		7,655		11,155		12,248
NEB ENVIRONMENT			THE ADD ADA	shink even name		and are det
ENV	3,600	9,617	3,600	10,477	2,300	9,924
ENV-ADM				diffe shad were		
ENV-ES	3,600	9,489	3,600	10,336	2,300	9,766
ENV-EPS	weir ann 1998	2,102		2,200		3,435
ENV-AES ENV-ECS		187	about error state	185		231
ENV-FOR	3,600	7,200	3,600	7,951	2,300	6,100
ENV-PC		128		141		158
EXTERNAL AFF	RIRS					
EA-CIA						ence ence ence
CIDA						when must state
IDRC	tem tem ere					
IJC FINANCE		THE SEA THE	ware were under	and the west	where dollars admit	
FIN		4004 4004 4004	shot ship upp	wear shad white		
FIN-FEP		0000 0004 ABA				
FISHERIES AN	D OCEANS					
F&O		3,350		5,238		7,092
F&O-FM INDIAN AFFAI	RS & NOR	3,350 THERN DEVELO	PMENT	5,238		7,092
IAND		228		209		170
IAND-IIA						www.sind.ddll-
IAND-NA		228		209	ABA 9999 9998	170
INDUSTRY TRA	DE AND C 84, 184	OHINERCE	128,095		155,883	
ITC-TI	83, 416		127,413		155,283	
I TC-TOUR						em en +0
ITC-GO	768		682		600	THE THE ALSO

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN INDUSTRY

BY DEPARTMENT OR AGENCY, 1988-1983

(\$ THOUSANDS)

DEPARTMENT OR	19	80-81	19	81-82	19	82-83
AGENCY		CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
JUSTICE	1000 AND 1-0 AND AND 1000 AND AND		1 4000 4000 ANA 1 A A - A A - A - 4000 1110	will ble five our two way wile you and and and		
JUST			ma an	1004 000- 1700		1.00 VIV 1.00
JUST-ADM					gan	
JUST-CUIO						
CHRC	····	Mark 1970 2-000	NUCL 2-100 2-100	and stars and		100 Bits 100
LRC LABOUR		man and man		and have dear		
LAB NATIONAL DEF	ENCE		and had man	1944 - may 1950	4 8000 9000	way that was
NDEF NDEF-SER MATIONAL HEA		22,972 22,972		29,788 29,788		47,093 47,093
NHW		122		245		325
NHW-ADM		A term term				
NHW-HSS		107		142		180
NHW-MS			propriotic starts	natur 1		1000 1000 1000
NHW-HP		15		103		145
NHW-IS			ALC	NEW OWN LAND		And 114 100
MRC Mational Rev	ENUE			FORM MADE MADE		
NREV			=			
NREV-TAX PRIVY COUNCI	 L				1.00 000 0.00	and the dist
PC		And the 1999		1000 -1001 10-00	nan oras debr	
COL						
ECC PUBLIC WORKS		man and over		main main reven		
PM		2,937		1,045		1,553
PW-PTS		2,937		1.045		1,553
CMHC		330		660		725
NCC				and and had		
REGIONAL ECC REE	NOMIC EX	PANSION				
SCIENCE AND ST	TECHNOLO	GY	-			way want with
NRC	22,088	23,932	35,460	38,630	45,652	40,123
NRC-SIR	22,088	23,932	35,460	38,630	45,652	40,123
NRC-STI						
NSERC		1000 Parts 10.00				
SC			area 0.000 3070	0.000 reve 0000		
SECRETARY OF	STATE					
SECS		when Mark shifts		man, come apogg	torus annas torus	rular arms man
SECS-OL						
SECS-ES			3,00 MMR 7070			Ban Ba 88
SECS-TRA SECS-CIT	anna man - tair	4000 8000 year	man man man			and over man
PSC				and were state		
SOLICITOR GE						
SGEN		mpg man and				
SGEN-ADM				may may used		
RCMP		42		60		90
SUPPLY AND S						
SS		10,552		10,683		10,685
SS-SUPP		10,552		10,683		10,685
STCAN IRANSPORT		and over the				
TPT		3,240	with some limits	5,816		10,849
TPT-ADM		2,595		3,952		4, 428
TPT-MAR		645		1,864		6,421
TPT-AIR				mar and ann		
TPT-SUR						ME 970
CTC TREASURY BOA	 RD			$\rightarrow \rightarrow \rightarrow$		1000 Auto 1000
LALLIUCEL DUT	a 1 da?					
TB						
TB TB-ADM						

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FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1980-1983

DEPARTMENT		80-81		81-82	19	82-93
OR AGENCY		CONTRACTS		CONTRACTS	GRANTS	CONTRACTS
HGRICULTURE			a maga mang pang pang pang pang pang pang pang p		a finite transmission of the second sec	
HGR-ADM	1,373	2,776	1,386	3,485	1,386	4,849
HGR-DEV	1,373	2,776	1,386	3,485	1,386	4,849
HGR-RI				400 500 500		
HGR-CGC CDC						
CLFB		-				
COMMUNICATIO		0.50				
	25	950 950	25	1,000	25 25	935 935
COMM-AC	Aug. Bag. Bag.			11000		
CBC	and most owned	Adda daug maga		water even weat		
CRTC				Appr. and and	these serves below	
HLIB						-
NMUS PR						and more state
SSHRC				the first state		
CONSUMER AND		TE AFFAIRS				
CCA CCA-ADM		alasi ikus -40		and other state		
CCA-CON						
CCA-COR			and this see.			unput Assoc many
CCA-CICP ECONOMIC DEV				and how only		and the first
ECONOMIC DEV	ELOPHENI					
EMPLOYMENT &	IMMIGRA					
EI EI-ADM				which such states		
CEIC						weath divid Anda
ENERGY MINES						
EMR EMR-ENER	2,002	1,627	3,230 1,840	2,889	3,957 2,240	3,036
EMR-MES	1,811	1,586	1,390	2,889	1,717	3,036
AECB		222	and much man	369	ware approximate	560
AECL NEB		1,781		1,900		2,136
ENVIRONMENT						
ENV	869	5,055	1,311	5,734	2,263	6,927
ENV-ADM ENV-ES	869	4,978	1,311	5,650	2,263	6,833
ENV-EPS	and over 1988	751		390		390
ENV-AES ENV-ECS	283	344 545	300 219	432	300	475
ENV-FOR	367	3,338	792	617	219	678 5,290
ENV-PC		77		84		94
EXTERNAL AFF EA	AIRS				_	
EA-CIA	under white shad					
CIDA						
IDRC IJC	207		495		1,013	
FINANCE						
FIN						ware which think
FIN-FEP FISHERIES AN	D OCEANS		and data must	And the real		Anna diala -010
F&O	585	2,060	510	2,166	510	2,769
F&O-FM	585	2,060	510	2,166	510	2,769
INDIAN AFFAI IAND	RS & NOR 297	THERN DEVELO	PMENT 420	360	493	384
IAND-IIA		ange enne mote	ALL -177 1980			
IAND-NA	297	336	420	360	493	384
INDUSTRY TRA	DE AND C 1,346	OMMERCE	1,751		1,750	
ITC-TI	936	angle data in some	1,350	perior series series	1,350	
ITC-TOUR	410			which your cash		
ITC-GO	410	you and date	401		490	

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1980-1983

DEPARTMENT	19	80-81	19	81-82	19	82-83
OR AGENCY	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
JUSTICE JUST JUST-ADM	And ann per vil mer und the last	1999 Add 1999 Wer (0.7 and 0.9 and 0.9 and 0.9 a	(5) Will also page over over over over any diffe that take have over page	- 100 507 505 101 101 101 500 507 508 508 508 508 50		and was also also may non una app the dat
JUST-CUIO CHRC	100 - 100 - 100			1000 P-00 0000		ANA AND 1070
LRC	-	The day are	AM			
LABOUR LAB		where some some	Ann 200 100	alles - the darks	1000 ALM 4400	AND AND 1000
NATIONAL DEF	ENCE	2,805	auto saliti sala	4,210		5,026
NDEF-SER NATIONAL HEA		2,805	$dials \ is = \ 0.01$	4,210		5,026
NHW-ADM	5,717	469	6,044	312	5,045	1,100
NHM-HSS	5,695	addit 100% dashe	6,029	danta Anto gpp-	5,030	where more speci
NHM-MS NHM-H2	22	469		312	15	1,100
NHM-IS		disk was and	and the second	Aug. 1992 Aug.		
MRC NATIONAL REV	72,216 ENUE	story node date	88,092		99,280	And more weak
NREV		which many datase		and along and	-	
HREV-TAX PR1VY COUNCI		data data		Name water datas	And Add Hore	allow adus adus
PC	Name Annual Annual	the area and	600 mm. and			and and show
COL ECC		and Andre				
PUBLIC WORKS						
PN PW-PTS		anna anna		10		10 10
CMHC	13	59	27	95	35	105
REGIONAL ECO	NOMIC EX	PONSION	dada dada mere	2007. Auto	Auto Auto 1000	Auto Auto mere
REE SCIENCE AND	AND 1 10 1071		6.00. 007 auto	2009 date date	data data data	Anthe Anthe Autor
ST	1070 Auto 1000					Ann 201 100
NRC NRC-SIR NRC-STI	13,642 13,642	1,461	18,199 18,199	3,059 3,059	22,201 22,201	2,640 2,640
NSERC	138,333	and and a	166,551	many hann ware	184, 562	
SECRETARY OF	STATE			And you was	tare may still	ware ware offer
SECS SECS-OL		and other				and the other
SECS-ES			1070 - 1070 - 4000			
SECS-TRA SECS-CIT			and more appr			
PSC COLLOUTOR OF	NEDOI		Marrie - M. Sorra	NUT AND AND		
SOLICITOR GE	NEKHL					-
SGEN-ADM RCMP	854 Aug. 1889		10-10 Hours 1000	0 5		
	ERVICES	23		85	are out data	60
SS SS-SUPP		1,092 1,092	1	1,082	1010 Auto 1000	1,082
STCAN		1,092	NUMBER AND ADDRESS	1,082	1007 1007 1007	1,082
TRANSPORT	25	1.01	2.4	200	50	
TPT TPT-ADM		161 161	24	320 320		353 353
TPT-MAR			-	and and	ALC: 1011	
TPT-AIR TPT-SUR	25	diad ways short	24	water water doubt	50	
CTC						
TREASURY BOA	RD					Mar. (14) (10)
TB-ADM						
TOTAL	236,650	20,883	288,065	27,076	322,570	31,972

FEDERAL INTROMURAL AND EXTROMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

DEDADTMENT		1980-01			1981-82	an ana an		1982-83	
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MUEAL	EXTEA- Mural	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE									ter unde mort erm et er tren mort ben 1888
AGR	6,522	1,745	8,267	7,453	921	8,374	8,274	4	8,278
AGR-ADM AGR-DEV	4,200	1,741	4,288	4,783 812	917	4,783	5,084 921		5,084
AGR-RI	(90			516	917	17729	921		921
AGR-CGC	1,529	4 593	I,533	1,858	1	1,862	2,269	4	2,273
CDC			593		2,200	2,200		2,500	2,500
CLFB			Address Amount of Strategy	ANY 1997 1489	And And And	AND AND AND	ANY LOSS LOSS	And Amer and	
COMM	70		78	70		70	100	i	100
COMM-COMM	70	aird and even	78	70		70	100		100
COMPI-AC		-	400 AU 144	Lamo atus 4745				-	
CBC CRTC		And 100 100							
NFB	252	and the field	252	176		176	200	ALL	200
NLIB			From Vert Rame						
NMUS	13,909	3,820	17,729	14,794	4,045	18,839	16,320	4,668	20,988
PA	rente rente parte			anter anter organ					
SSHRC CONSUMER AND			201 00 00	data data		and date and		400 Co Co	
CCA	14, 545		14,545	14,972		14,972	17,731		17,731
CCA-ADM	ways share what	where we with	www.ubblic.com						
CCA-CON	2,170		2,170	2,435	and and and	2,435	2,850	-Ma	2,850
CCA-COR CCA-CICP	12,375	anna anna aite	12,375	12,537	and data state	12,537	14,881		14,881
ECONOMIC DEVE	LOPMENT								
ED			admit 4740 venne	way was suid	mpy while while				
EMPLOYMENT &		4							
EI	100 and 100		100 MA	Aller war war		and and reas		10 ma 20	
EI-ADM CEIC	THE ANY LOSS				AND AND AND	and the state			
ENERGY MINES									
272 h 425		5,884	42,230	39,932	6,938	46,870	47,848	10,126	57, 174
EMR-ENER	36,346 329 36,017	248	577	239	2,002	2,241	682	3,061	3,743
	36,017	5,636	41,653	39,693	4,936	44,629	46,366	7,065	53,431
AECB	5,310	12,614	17,924	5,528	12,452	17,980	7,154	14,725	21,879
NEB	382		382	495		495	501	and man ever	501
ENVIRONMENT									
ENV.	135,352	8,963	144,315	151,492	10,037	161,529	184,727	10,372	195,099
ENV-ADM ENV-ES	1,180 133,190	8,728	141,918	149,222	9,777	158,999	182,317	10,082	192,399
ENV-EPS	3,047	325	3,372	2,535	287	2,822	2,605	287	2,892
ENV-AES	93,740	3,233	96,973	107,744	3,736	111,480	134,380	3,563	137,943
ENV-ECS	31,653	5,170	36,823	34,100	5,754	39,854	39,789	6,232	46,021
ENV-FOR ENV-PC	4,750 982	235	4,750	4,843	260	4,843	5,543	290	5,543
EXTERNAL AFFA		200	TYCTI	1,001	200	17.041	1,200	2.50	11400
EA				work him shift					
EA-CIA		27 225		40.4	25 540		==== E70	20 102	28,632
CIDA IDRC	414 240	23,225	23,639	484	25,546	26,030	530 308	28,102	1,714
IJC	2,249	79	2,328	2,657	114	2,771	2,786	202	2,988
FINANCE									
FIN						the set and			
FIN-FEP FISHERIES AND	OCEONS		and all and	while dashed officer		with one saw	dama warke shifts		
F&O	53,678	2,541	56,219	59,224	4,160	63,384	70,893	7,141	78,034
F&Ø-FM	53,678	2,541	56,219	59,224	4,160	63, 384	70,893	7,141	78,034
INDIAN AFFAIR		RN DEVELO	PMENT						
IAND LIO	753	21	774	758	23	781	838	25	863
IAND-IIA IAND-NA	753	21	774	758	23	781	838	25	863
INDUSTRY TRAD		ERCE		100		101	000	20	000
ITC		2,728	2,728		3,590	3,590		4,273	4,273
ITC-TI		2,728	2,728		3,590	3,590		4,273	4,273
ITC-TOUR ITC-GO							the other the		
TIC-GO									

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITUSS

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE		a manga anna i kao anna aona aona ann anna anna		sam rell also sure are non over and and and any	0 * 10 erer erer eren arer erer eren ende allen e			1 Mgga 4004 ada	
JUST		AND 9440			We can dele		dark pros ++am		
JUST-ADM				with non-non-			-res ran bush	Real and a lit	
JUST-CUIO			nger verg dirk		1.000 X 11.000	the are real	and any and		
CHRC LRC	+ 442 (* 1990) * 442		when some dags		the second second		1000 P.00	while were assored	
LABOUR									
LAB NATIONAL DEFEN				40.00 2.000 4000		100 Add -110	49.0 10.0		
NDEF	754		754	866		866	970	-	975
	754	while even which	754	866		866	970	10 - 10 - 10 - 10	978
NATIONAL HEALT					-				
NHW	26,538	2,628	29,166	28,692	2,179	30,871	34,659	2,219	36,870
NHW-ADM NHW-HSS	227	2,203	2,430	210	1,798	2,008	227	1,780	2,697
NHW-MS			27400		171.50		E. 6. 1	17100	G F U G F
NHM-HP	26,311	425	26,736	28,482	381	28,863	34,432	439	34, 871
NHW-IS		4545 4545		1000 -000 10				100 100 -	
MRC	121	2,449	2,570	139	3,179	3,318	155	3,583	3,730
NATIONAL REVEN	ADE	Aug. 4000 4000	1996 August 1994		100 100 000	-			all in a second
NREV-TAX				1000 - 1000 - 1000	*	AND 101 101		and over man	addition for the spectrum
PRIVY COUNCIL									
PC	(10) allow (10)						new inter info		
COL				Addre over Ander		where which which			11-12 41-1 + 440
ECC		They that	1000 0000 +1400		Book even who	***** ***** *****	***** ***** *****	**** ****	1010-011
PUBLIC WORKS PW	2,626	1,424	4,050	5, 158	1,091	6,249	4,731	1.027	5,758
PW-PTS	2,626	1,424	4,050	5,158	1,091	6,249	4,731	1,027	5,758
CMHC	697	614	1,311	830	1,207	2,037	944	1,231	2,175
NCC	160	AND 1488 AND	160	250	and sense more	250	425		425
REGIONAL ECONO					0.5.5				
REE SCIENCE AND TH	ECHNOLOGY	771	771	for our week	957	957	000 with	5,588	5,538
ST			499-6-1999 - care	1410 0.000 0000		400- 000	10110 10110 00100		
NRC	33,619	2,506	36,125	40,020	2,357	42,377	45,578	2,666	48,244
NRC-SIR	18,961	2,506	21,467	21,496	2,291	23,787	23,987	2,592	26,579
NRC-STI	14,658	15.004	14,658	18,524	66	18,590	21,591	74	21,065
NSERC SC	669	15,964	16,633	862	20,918	21,780	1,138	23,459	24,597
SECRETARY OF 9									
SECS	we can all		107 -008 -004	**** **** ****				and the same same	
SECS-OL			100-0 100-0	and non-sea	were proposition	erem menn sånde	and the state		
SECS-ES		web web infin	data maid your	**** **** ****	**** ****	1000 - 1000 - 1110 1		which as we which	-
SECS-TRA					and the second				
SECS-CIT PSC				1000 1000 Auto		alle fait fait			400 0.00 400
SOLICITOR GENI									
SGEN	nan wer with					most first that			
SGEN-ADM			-	where some cases	may over one				***** ***** 0.00*
RCMP		400.000	with deal year		THE THE ALSO	100 C-0 100	one one ship	dans over the	off mit offs
SUPPLY AND SEL	RVILES 16	2,203	2,219	17	3 160	3 105	10	0.100	0 107
SS-SUPP	16	2,203	2,219	17	2,168	2,185	19 19	2,168 2,168	2,187
STCAN			new west com						
TRANSPORT									
TPT ODM	6,921	3,964	10,885	6,494	4,597	11,091	1,969	4,730	6,699
TPT-ADM TPT-MOP	443 6 464	1,127	1,570	793	1,884	2,677	958	2,123	3,081
TPT-MAR TPT-AIR	6,464 5	728 2,099	7,192 2,104	5,518 157	600 2,103	6,118 2,260	866 119	600 1,997	1,466
TPT-SUR	9	2,035	19	107	2,103	2,260	26	1,997	36
CTC									
TREASURY BOARI	D								
			dards and more	150 Adb Adb					
TB			499- 1991 Law		THE STREET	ama anti-100		B-0 -0 -0 -0 -0	
	342,143	95, 444	437,587	381,632	109,805	491, 437	447,998	130,215	578,213

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1980-81

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
							and will see our one day our and any apply and	
AGRICULTURE			1.0.0		122			2.001
AGR AGR-ADM	5	1,017 41	123 21	I,046 4	433 46	1,367		3,991
AGR-DEV	5	918	100	934	375	1,327		3,659
AGR-RI AGR-CGC		40 18	1	53 55	4	38		136
CDC		10	L				ange wann ward	
CLFB						run run lade		
COMMUNICATION: COMM	9	207	42	149	86	66		559
COMM-COMM	9	207	42	149	86	66		559
COMM-AC	and the second	with well PER-			-			
CBC CRTC		4844 4444 4444					ware date with	and the set
NFB		3		8	1			12
NLIB		29	67	93	45	90	and the set	327
NMUS PA	3		0 f					CT CL I
SSHRC				AND 400 100	am ma am		ware ware table	
CONSUMER AND CCA	CORPORATE AF	FFAIRS 181	15	24	161	3	www. Space more	386
CCA-ADM		PR 0			dana sena mant			4
CCA-CON	1	11	8	24	6	3		53
CCA-COR CCA-CICP	1	170	7	run this run	155			333
ECONOMIC DEVE	LOPMENT							
ED EMPLOYMENT &	IMMICDOTION		40.0 ++1 ++1	AM 940 940				
EI		data data man				-		
EI-ADM								
CEIC ENERGY MINES	PECHIPCES	alla velv med			and that and		and and all	
EMR	8	884	87	859	317	165		2,318
EMR-ENER	1	17		050	4	165	have now the	22 2,296
EMR-MES AECB	7	867	87	859	313	165		21605
AECL	17	643		849	315	570	and 400 100	2,394
NEB ENVIRONMENT	PHE 146 147	8	AND	I	2			11
ENVIRONMENT	43	1,526	378	1,939	666	120	last size data	4,672
ENV-ADM		12	13		20		100 miles - 100	45
ENV-ES ENV-EPS	43	1,493	366 3	1,939	645 15	117		4,602
ENV-AES	21	635	171	1,127	350	31		2,335
ENV-ECS	7	315	160 32	248 509	274	76		1,080
ENV-FOR ENV-PC	13	465	54	000	1	3		25
EXTERNAL AFFA	IRS							
EA-CIA	ango saro saro						ware raise only	able and men
CIDA			9		7	ALC: 410 PM	444 Mar 0.00	16
IDRC	2	32	I	2	29 20		same mille mille	66 45
IJC FINANCE	ſ	1 1	4	3	20		1000 DD0 1000	40
FIN		but ever with		404 410 109				
FIN-FEP FISHERIES AND	OCEONE		new work this		-		PHH AAM 4000	A100 A100 7000
Faneries Hou	S S	822	77	773	117	249		2,043
F&Ø-FM	5	822	77	773	117	249	AAAA AAAA 9079	2,043
INDIAN AFFAIR	S & NORTHERN	N DEVELOPMENT	3	6	1	1	ALC: NO. 700	49
IAND-IIA		page men mag	were asso para	and this year				400 414 Jun
IAND-NA		38	3	6	I	1	All and and	49
INDUSTRY TRAD	E AND COMMEN	RCE 2	106		54			162
ITC-TI	well and form	2	104	Sport Sport mans	53	AND 410 MA		159
ITC-TOUR		anne aven byd	2	4000 F000 4000	I		way and yes	3
ITC-GO		Anna Anna Banta	C		T			5

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1980-81

DEPARTMENT OR		SCIENTIFIC &	ADMIN. & FOREIGN	en area pera ana sebè della pera vena ana ana meri ina o a	ADMINIS- TRATIVE	to the star and and any day any may have not not not the		any part appr and the same many a
AGENCY	EXECUTIVE	PROFESSIONAL	SERVICE	TECHNICAL	SUPPORT	OPERATIONAL	MILITARY	TOTA
JUSTICE								
JUST ODM		which makes down			1770 1770 1770			The same same
JUST-ADM JUST-CUIO		107 ANI			100 100 cm	4440 4440 4440 Auto, 8940 1894		with said were
CHRC		100 400 444		10.00 Mpc 4000				
LRC					8 CF 1 CF 1 CF 1			
LABOUR LAB				ND-0 - ND-0 - ND-0	100 Mills 200	1000 Prin 1920	1000 000 mail	
NATIONAL DEFEN NDEF	CE 12	533	111	487	235	271	153	1,802
NDEF-SER	îŽ	533	ÎÎÎ	487	235	271	153	1,802
MATIONAL HEALT	H AND WELFA							
NHM	8	583	32	334	201	18		1, 175
NHW-ADM						Adda Audi 1999		
NHW-HSS	1	4	6	1	4			16
NHW-MS NHW-HP	7	-27 552	27	333	6 190	19	and the set	33 17126
NHW-IS			<u> </u>		100	10		1/120
MRC	5	2	8		24			39
NATIONAL REVEN		Teres		8.000 MICH 1999	100 - V	www. 4500 - 1110	page area area	
NREV TOY		and non- and	weeks where were		4000 bull 600		page ware step	
HREV-TAX PRIVY COUNCIL								
PC	100 P. 0.0			1.00 Adva 1000		And And And		-
COL			1000 - 1000 - 1000		1410 - 1970 - 1970	4000 0000 mint		
ĔČĊ		0~ + +0.0 +0.0	ALC: 0.1	10.00 AVE 1778		www.ubit.ubit	WV0 WV0 4800	* silve 1070
PUBLIC WORKS								
PW		45	7	9	1		ALSO, WYO AND	63
PW-PTS		45	-7	9	1	and with		63
CMHC	2	19	1	10	6	ANN 175 175	and were white	38
NCC ROOM	MIG RUDANO:					war data mit	100 Aug 100	
REGIONAL ECONO	MIC EXPHNS:	IUN	www.unit-slink	alle was olde	gas and the	200 200 -mg		
REE Science and te					and the sec	200 200 440	and the	
ST NRC	5	1,109	207	958	583	296		3,158
NRC-SIR	5	1,050	176	957	455	292		2,935
NRC-STI		59	31	1	128	4		223
NSERC	4	- ĭ	29		41			75
SC	page areas and	B WY: Fait Jam		som were send				
SECRETARY OF S	TATE							
SECS		www.www.amad	ARM 1970 1970				www. www. main	
SECS-OL	www.aust.aust.	and you want				www. www. anna		gan
SECS-ES	and over over	and both both				www.undli.undli	Mark there are a	
SECS-TRA		THE MAN AVE		www.uwww.uwww				
SECS-CIT						nam over such		
PSC SOLICITOR GENE							and the	
SGEN		000 AMA 000				1000 0070 1000		
SGENHADM				1997 AUG. 1998		1000 ATM ATM		
RCMP			which which spect			Audi Mari 1999	Party price price	-
SUPPLY AND SER	VICES							
SS	Ø	angle water work	2	we we do	2		49.0	6
SS-SUPP	9	And Min 040	2	day 400 110	2	and that that	And and and	6
STCAN TRANSPORT	Part Part Aven				070 in 100	www.amar.ubg	ware part with	-
TPT	1	47	14	3	1 I		www.edule-05/0	76
TPT-ADM	1	14	10	3	11	www.udult.ution	1000 data 4000	38
TPT-MAR		21						21
TPT-AIR		12	4	1	AMON AMON PROPE		100 AD 100	17
TPT-SUR		WHY face built					10.0 TO THE	dire ener un
OTC TREASURY ROOTR		and two was		and two som	terms and terms	1000-1-000 1-000	1.000 1.000 1.000	
TREASURY BOARD	100 Mile 1-0	databili mantar mantar	for all other	P07 1000 1.000		men men mide	have some tick	-
TB TB-ADM	where were weak							
TOTAL	139	7,747	1,322	7,553	3,359	3,216	153	23,486

FEDERAL PRESONNEL FNGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1981-82 (FULL-TIME EQUIVALENT PERSON-YEARS)

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AGRICULTURE								
AGR	7	1,032	130	L 162	439	1,379		4, 149
AGR-ADM		37	26	7	47	1,339	AND 307 525	7 701
AGR-DEV AGR-RI	6	925	102	1,042	377	38		3,791
AGR-CGC	1	19	ī	58	11	2		92
CDC CLFB		And the second	www.childr.childr					
COMMUNICATIONS								
COMM	9	289	53	146	90	71	AM. AM. 179	578
COMM-COMM COMM-AC	9	289	53	I46	33	71		578
CBC	with the other	T T T T T T T T T T T T T T T T T T T					and and out	
CRTC		**** **** AM	*** ***	data aven veno				
NFB		2	alles and appr	7	1	100 HOR 100		10
NLIB	3	29	65	93	50	80		320
PA	C							520
SSHRC	4444 man	and area also						www.edult.com
CONSUMER AND CO		FAIRS	22	20	124	7		700
CCA CCA-ADM	2	158	27	26	174	3		390
CCA-CON	1	10	8	26	7	3		55
CCA-COR	1	148	19		167		No.4 10.4 Ann.	335
CCA-CICP	OBMENT							
ECONOMIC DEVEL	UP HEHA							100 MP2 also
EMPLOYMENT & I	MMIGRATION							
EI		alles shift was				water shall shall		
EI-ADM		440 - 450 - 670		440 HIL 170				
CEIC ENERGY MINES &		AAAA AAAA UU-F	were added on the	And Add UPP	the set of	and and and		100 000 000
EMR	12	894	91	816	313	165		2,291
EMR-ENER	2	13			6		AND 1817 1817	20
EMR-MES AECB	10	882	91	816	308	165		2,271
AECL	17	723		848	318	686	and real rates	2,512
NEB	NUMBER AND ADDRESS	8		1	2			11
ENVIRONMENT	4.4	1 571	200	1 0.40	000	100	AND 1999 1999	4 001
ENV-ADM	44	1,531	380	1,946	660 16	120		4,681
ENV-ES	44	1,496	367	1,946	643	117		4,613
ENV-EPS	2	77	3	55	15	10		161
ENV-AES ENV-ECS	21	635 315	171	1,129	348 274	31		2,335
ENV-FOR	14	469	160 33	248 514	214			1,037
ENV-PC		23			ĩ	3		27
EXTERNAL AFFAI								
EA-CIA		6000 0010 mm						
CIDA			9		7			16
IDRC	3	40	2	1	29			74
IJC	7	10	4	4	21			46
FINANCE							100 million million	
FIN-FEP						weigh dang dang		-
FISHERIES AND								
F&O	8	880	77	773	127	310	-	2,175
F&O-FM INDIAN AFFAIRS	8 & NORTHERN	880 DEVELOPMENT	77	773	127	310		2,175
IAND		39	4	6	2	1		51
IAND-IIA								
IAND-NA INDUSTRY TRADE	OND COMMET	39	4	6	2	1	AND 100- AND	51
INDUSIRY INHUE	HND COMMEN	2	106		54			162
ITC-TI		2	104		53		mm. shift ture	159
I TC-TOUR		PAD obt your	-				Aug. 1977 1979	
ITC-GO			2		1	did ypp and		3

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, BY CATEGORY, 1981-82

C FULL-TIME EQUIVALENT PERSON-YEARS)

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
		which shall work were seen over their state spectrum over a strange		a man and has been any one one of the		the latter way ways and a set ways while more which many ways ways and		and day one of the second second
JUSTICE		1440 e-mai man	**** **** #***	for an a set		100- 0-1 000	AND state wire	site of the
JUST-ADM	1910 at-s 1040	1000 1000 1000				-0.000.000	and store was	
JUST-CUIO				and they part was	Mills were white	400 0-0 990	with site a while	Mary which in ag
CHRC	Andre Adolfe annes			Hard dark dark.	10000 - 10000 - 1000	1007 / POID 10771	BEAU HEAU BEAU	ALCO 101110 0.010
LABOUR	addy WHEE adve			9900 m.h.s.m	NUM 1770 1770	and and both	and same ran	ras as I and
LAB NATIONAL DEFEN								-
NDEF NDEF-SER	I2 12	546 546	98 98	494 494	231 231	268 268	161 161	1,899 1,899
NATIONAL HEALTH			77		212	24		1.005
ННЫ ННЫ-АДМ	10	608	37	335	212	24		1,225
NHW-HSS	1	4	7	1	5	and min one	graph array a data	t9
NHW-MS	the set of	27	and a second second		6		10.0 min 1000	33
NHW-HP	9	578	30	334	201	24	which would diff the	1,175
NHW-IS	1111 All 1 100			Here Math. works				400.0
MRC NATIONAL REVEN	JË 5	2	8	1000 100.0 mile	24	100 ADA ADA		39
NREV TAY	and any area	1998 ANN ANN		THE RATE AND		0-0. 0-0 vitel	gang. 2010. 4-00	Anna 2112 (2012)
NREV-TAX PRIVY COUNCIL		and ann une		and sam una	with hard local	Both forth shield	and mon shift	and we spp
PC	MANA PARA MANA	and have non-	No. 100 100	MARK MARK, MIRAN	And the second		and made to a	ana 1111
COL			areas were united	MARK COTT MARK	Millel alumer Milleli	mare one wash	shiply, where which	Allenda
ECC PUBLIC WORKS		And the	Addate Section Links	100 000 100	-	ALL AND LOS	many arrest teach	141 14 100
РИ	were adde form	42	9	9	2	area white many	anny teach balan	-63
PW-PTS		42	9	.9	2	terre with years	sana muit mee-	63
CMHC NCC	2	19	1	10	7	ann ann ann		39
REGIONAL ECONO				NO. 500	NOT MADE STOP		anny group taken.	100 mm 444
SCIENCE AND TE			MARK MILLS MILLS	MAG STOT MAG	1010 MAG 100.0			man sand quep.
NRC	5	1,152	211	986	595	299	group mann mann	3,248
NRC-SIR	š	1,085	179	985	467	295		3,016
NRC-STI		67	32	1	128	4		232
NSERC	4	1	31	and and one	45	Infer dels sum	Anton Marka Marka	- 81
SC SECRETARY OF S	TOTE	billed spars areas	480.0. 1977 Int.0	MARK MARK ALTY		1000 - 500 - 600	and and tree	
SECS	THIT	tion over some		Mile white some	4990 Aug 4991	977. 010.000	store along state	
SECS-OL				And and the	dahat norme wares	1000 010 mini	MAND SOLAR VIEW'S	Ann 1-77 (-17)
SECS-ES	1000 - 1000 - 1000	when much over		MPH mine bins	spine hadas in the	Name and And		
SECS-TRA		graph which games	and the state	are and the	And are served	1000 0000		
SECS-CIT			Med 49-4 650	duch oblik men			and block solar	note which appr
PSC SOLICITOR GENE		ubbi man baja	and the men	ford same same	holds block press	Adda and Adda	FUEL MAIN MAIN	A 40 MIN 200
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SGEN-ADM		ware area and	and the second second	MARK MARK STOPP	and have deriv	have not stol	fiel are and	alest over their
RCMP		Mills and other		have these datasets	direct salar server		AND ADD MOT	
SUPPLY AND SERI	DICES 0		2		- C -			4
SS-SUPP	0	Para ana ana	2	100 ALL 100	2	tota ante eres	and any and	4
STCAN TRANSPORT		1000 UND 1000		and anno one		ware deale while	we we all	
TPT	1	51	14	4	1.1	was don't that		81
TPT-ADM	1	13	ĪØ	2	11		titul alert 4000	37
TPT-MAR	ann simi unn	29	MARE MET MARE	Annue some unter		480 900 000		29
TPT-AIR	where we are said	9	4	2	and blic com-			15
TPT-SUR			NAME AND ADDRESS OF TAXABLE		erm ann ann	ene ene ene		100 million (1994)
TREASURY BOARD	were well take		and and all a		and the same			200 000 min
TB			MARE HERE GROUP	for one one		MARE MADE MADE		
TB-ADM					FW MAA MAA			
TOTAL	150	7,984	1,356	7,667	3,417	3,326	161	24,062

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1982-83 (FULL-TIME EQUIVALENT PERSON-YEARS)

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & Foreign Service	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AGRICULTURE	1 dillo villo none parte anno anno anno anno anno anno anno ann		ann ann ann nar sua nar sua - ann ann adh ad	and may pay the same and new over the day 424	te medi sini dani sina nan ana ana ana ang m	a file out any out any full are and are out any	and on the set of a set of the se	
AGR	32	1,007	109	1,847	422	1,372	100 (00 Mrs.	3,989
AGR-ADM	star our out	38	31	7	46		A-10 (00), 0-10	122
AGR-DEV AGR-RI	32	900 51	76 1	925 55	361	1,332	NAME AND ADDRESS OF	- 3,626 149
AGR-CGC		18	1	60	11	2		92
CDC		and over later	270 Mill (14	2010 000 MIN				
CLFB COMMUNICATIONS	the set of	and area data						
COMM	9	217	53	165	191	79	Ann Ann 1944	624
COMM-COMM	9	217	53	165	101	79	and the sec	624
COMM-AC CBC	000 000 mm	and the max		the star and		and new size		4 (0) 7 100 August
CRTC	1948 Mar 1948	444 Mar (944						
NFB	NUM	3		8	1	1440 AP-11 (1992)		12
NLIB NMUS	4	27	68	90	73	71	which served which -	333
PA						V &	an an -m	
SSHRC			The same size	1714 WHIT 1987		100 000 000	1000 00% 1-m	which and a main
CONSUMER AND C	ORPORATE HE	THIRS 162	30	27	166	3		390
CCA-ADM		100				were as a series	1000 No.5 1000	
CCA-CON	1	10	11	27	6	3		53
CCA-COR CCA-CICP	1	152	19		160		And the second second	332
ECONOMIC DEVEL	OPMENT							
ED								
EMPLOYMENT & I	MMIGRATION							
EI-ADM		abilit times area			area and made			
CEIC		Add Add may		MAR PROP AND		10-01 10-01 4000	more doubl which	An
ENERGY MINES 8 EMR	RESOURCES	953	94	846	329	163		2,411
EMR-ENER	4	37		040	8	100		48
EMR-MES	24	917	94	846	321	163		2,363
AECB	13	6 736		898	1 342	621	the real grow	2,615
NEB	10	8		1	342	021		11
ENVIRONMENT								
ENV	40	1,428	417	1,812	782	215		4, 693
ENV-ADM ENV-ES	40	13	13 404	1,812	16 765	212	ware pure data	4,625
ENV-EPS	2	77	4	55	24	10		171
ENV-AES	21	640	174	1,130	346	31		2,342
ENV-ECS ENV-FOR	7 10	315 361	160 66	248 379	274 121	76 95		1,032
ENV-PC		23			1	3		27
EXTERNAL AFFAI	RS							
EA EA-CIA		AND AND MADE	Party Party Man			and 1770 1770		www.www.upp
CIDA		And And 100	9		7		pure shift when	16
IDRC	3	46	2.		32		and 100	82
IJC FINANCE	7	10	6	4	22		and one day	49
FIN						max over shift		
FIN-FEP			man man sho	date WPD unto		and over over		and and add
FISHERIES AND F&O	OCEANS 8	915	106	773	174	316	And the other	2,292
F&O-FM	8	915	106	773	174	316		2,292
INDIAN AFFAIRS		DEVELOPMENT						
IAND	446 45 555	39	4	6	2	1	Per and and	51
IAND-IIA IAND-NA	ange man date	39	4	6	2	1		51
INDUSTRY TRADI	E AND COMMER	RCE		0		A.		
ITC		2	116		58	men wird data		176
ITC-TI ITC-TOUR			115		57		and a mean mean.	174
ITC-GO			1		1		PUP 2041 4940	2

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARYMENT OR AGENCY, BY CATEGORY, 1982-83 (FULL-TIME EQUIVALENT PERSON-YEARS)

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NHU 13 625 37 342 214 19 NHI-HAS 1 4 7 1 5		12		98	495	231	267	161
HMI-HARM			IRE	77	740	214	19	
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HH-HS 29 6 HH-HS 24 HRC 5 2 8 24 HRE/P-TMX 24 HRE/P-TMX <					1			
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ST	REGIONAL ECONOM		ION					
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NSERC 4 42 52 SC SECS SECS-01 SECS-15 SECS-164 SECS-175 SECS-176 SECS-176 SECS-176 SGEN SGEN-ADM SGEN-ADM SGEN-ADM SUPPLY AND SERVICES 2 2					1			ALC: 101 101
SECRETARY OF STATE SECS		4			1988 A.M	52		
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SECS-CIT			area 4000 0000	WWW 1/100 10.00				and the data
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RCMP SUPPLY AND SERVICES 0 2 SS-SUPP 0 2 2 STCAN 2 2 TRANSPORT 2 11 TPT 1 40 14 5 11 TPT-ADM 1 13 10 2 11 TPT-ADM 1 13 10 4 3 TPT-SUR TREASURY BOARD TB-ADM			and were with		THE ADD AND			
SUPPLY AND SERVICES 2 2			AND NOT		was unto the			
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SS-SUPP 0 2 2 STCAN TRANSPORT TPT 1 40 14 5 11 TPT 1 40 14 5 11 TPT-ADM 1 13 10 2 11 TPT-ADR 17 TPT-SUR TREASURY BOARD TB-ADM			and a second second	2	areas areas and a	2	war war ditt	
TRANSPORT 1 40 14 5 11 TPT - ADM 1 13 10 2 11 TPT-ADM 1 13 10 2 11 TPT-ADM 1 13 10 2 11 TPT-ADM 17 TPT-AIR 10 4 3 TPT-SUR CTC TB TB-ADM	SS-SUPP			2		2	wave wheth \$4000	AND AND AND
TPT 1 40 14 5 11 TPT-ADM 1 13 10 2 11 TPT-ADR 17 TPT-AIR 10 4 3 TPT-SUR CTC TREASURY BOARD TB-ADM	010101	same shifti waya				1000 1000 1000	want want with	
TPT-ADM I 13 10 2 11 TPT-MAR 17 TPT-AIR 10 4 3 TPT-SUR CTC TREASURY BOARD TB TB-ADM		4	40	1.4	E	1.1		
TPT-MAR 17 TPT-AIR 10 4 3 TPT-SUR CTC TREASURY BOARD TB TB-ADM		1						
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TREASURY BOARD TB					A100 A100 1070	deals your man.	am. 400 cm2	
TB-ADM	TREASURY BOARD							
TOTAL 189 8,015 1,444 7,572 3,650 3,428 161		···· ···	appe and app.	which work away	with tage dust	and our rage	-000 (100) FWF	
	TOTAL	189	8,015	1,444	7,572	3,650	3,428	161

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1980-83

(FULL-TIME EQUIVALENT PERSON-YEARS)

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1980-B1								
INTRAMURAL R&D	66	5,586	550	4,684	1,602	2,647	143	15,278
INTRAMURAL RSA	55	1,957	540	2,833	1,502	543	0	7,429
ADMIN. OF EXTRAMURAL PROGRAMS	17	204	232	35	255	26	10	779
TOTAL	138	7,747	1,322	7,553	3,359	3,216	153	23,486
1981-82								
INTRAMURAL R&D	71	5,808	548	4,808	1,619	2,694	151	15,699
INTRAMURAL RSA	59	1,966	569	2,818	1,529	604	0	7,546
ADMIN. OF EXTRAMURAL PROGRAMS	20	210	239	41	269	28	10	817
TOTAL	150	7, 984	1,356	7,667	3, 417	3,326	161	24,062
1982-83								
INTRAMURAL R&D	112	5,B67	524	4,726	1,754	2,762	151	15,896
INTRAMURAL RSA	56	1,911	615	2,797	1,605	633	Ø	7,617
ADMIN. OF EXTRAMURAL PROGRAMS	21	237	305	49	291	33	10	945
TOTAL	189	8,015	1, 444	7, 572	3,650	3,428	161	24, 458



Human Sciences

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY PERFORMER, 1980-1983

(\$ THOUSANDS)

DEDEADMED	1980-	81	1981-	82	1982-83		
PERFORMER	\$	%	\$	%	\$	*	
INTRAMURAL	343,506	(77.4)	465,544	(80,4)	447,894	(77.4)	
INDUSTRY	13,465	(3.0)	16,547	(2.9)	18,885	(3,3)	
UNIVERSITIES	45,983	(10.4)	52,342	(9.0)	61,735	(10.7)	
NON-PROFIT INSTITUTIONS	10,791	(2.4)	11,898	(2.1)	12,298	(2.1)	
PROVINCIAL & MUNICIPAL	7,422	(1.7)	8,357	(1.4)	10,341	(1.8)	
FOREIGN	15,402	(3.5)	16,512	(2.9)	19,378	(3.3)	
OTHER CANADIAN	7,078	(1.6)	8,022	(1.4)	8,408	(1.5)	
		and any and the or and had been any for	D MAN MAN AND MAN OVE SET and any our off	ana ana ana ana na 100 ana ana ana 404	dan dala ana laka dila dala dala dala dala dala dala dal		
TOTAL	443,647	(100.0)	579,222	(100.0)	578,939	(100.0)	

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES TOTAL ALL COMPONENTS (\$ THOUSANDS)

FISCAL YEAR 1980-81

CANADIAN CANADIAN UNIVERSITY N-P INST CANADIAN INDUSTRY PROM. MUN. GOMERNMENTS FOREIGN OTHER PERFORMERS PERFORMERS INTROMEL TOTAL IN-HOUSE R&D R&D CONTRACTS SUPPORTING CONTRACTS R&D GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTRAMURAL R&D CAPITAL - R&D 28,703 0,878 990 41,154 6,921 8,313 108 28,708 1,717 990 0 177 0 1,954 Ø Ø 0 120 9,467 723 8 8 2,742 0 508 1,731 0 22,781 5,995 2,266 81 203 0 0 125 0 5,863 0 8.313 0 0 SUB TOTAL R&D 39,836 3,250 30,507 5,988 10,310 DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS. STUDIES OPERN'S & POLICY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA 122,379 56,694 28,771 50,924 207 3,982 538 2,720 312 323 11,000 583 248 3,965 331 576 Р 3,982 836 1,734 3,220 150 293 8 8 686 702 39 3,665 0000 29,680 5,819 9,196 583 0 8 3,499 Ø 0 8 0 8 â SUB TOTAL RSA 303,670 10,215 15, 476 4,803 5,092 4.028 13,465 45,983 10,791 7,422 15,402

FISCAL YEAR 1981-82

(\$ THOUSANDS)

INTRAMEL	CANADIAN INDUSTRY		CANADIAN M-P INST	PROP. MUN. GOVERNMENTS	FOREIGN PERFORMERS	OTHER PERFORMERS	TOTAL
34,713 1,375 1,368 0 9,676 85	8 3,633 902 8 0 0	0 1,882 0 26,263 6,571 0 0	0 160 0 5,924 0 0 0	0 542 1,923 8 0 0	0 195 9,632 644 0 0	8 3,298 8 646 169 8 0	34,713 10,957 1,308 45,290 7,384 9,676 35
47,217	4,585	34,636	6,034	2,465	IØ, 381	4, 105	189,473
202,558 68,880 39,603 63,331 300 30,982 7,823 6,450	5,125 1,118 1,877 3,396 150 296 0 0	696 3,126 277 594 12,362 591 8 8	468 3,145 1,200 410 0 591 0	215 2,107 17 8 3,545 0 8	0 1,060 742 23 4,306 0 0	895 461 403 533 643 997 0 0	200, 957 70, 157 44, 199 68, 232 17, 774 36, 982 7, 823 6, 458
418,327	II,962	17,706	5,814	5,892	6,131	3,917	469,749
465,544	16,547	52 7 42	11 050	8, 357	16,512	8,022	579,222
	34, 213 1, 375 1, 368 9 9, 676 85 47, 217 202, 558 68, 88 39, 663 31 309 30, 962 7, 923 6, 418, 327	INTRAMEL INDUSTRY 34.713 0 1.375 3.683 1.368 0 9.676 0 9.676 0 47.217 4.585 202.558 5.125 68.080 1.118 39.603 1.877 63.331 3.396 30.982 296 7.023 0 6.450 8 418.327 II.962	INTRAMEL INDUSTRY UNIVERSITY 34,713 0 0 1,375 3,683 1,882 1,368 0 0 0 902 26,263 0 902 26,263 0 902 26,263 0 902 26,263 0 9 0 85 0 0 47,217 4,585 34,636 202,558 5,125 696 63,063 1,877 277 63,33,1 3,396 594 306 159 12,362 308 159 12,362 309 120 36 6,453 8 0 418,327 11,962 17,786	INTRAMEL INDUSTRY UNIVERSITY H-P INST 34,713 0 0 0 0 1,375 3,603 1,802 160 1,368 0 0 0 0 902 26,263 5,924 0 902 26,263 5,924 0 9,676 0 0 0 9,676 0 0 0 0 47,217 4,585 34,636 6,084 202,558 5,125 696 468 63,030 1,118 3,186 3,145 39,603 1,877 277 1,269 63,331 3,396 594 410 300 159 12,362 0 30,982 296 531 591 7,923 0 0 0 418,327 11,962 17,706 5,814	INTRAMEL INDUSTRY UNIVERSITY H-P INST GOVERNMENTS 34,713 0 0 0 0 1,375 3,683 1,802 160 542 1,368 0 0 0 0 0 902 26,263 5,924 1,923 0 902 26,263 5,924 1,923 0 9 6,571 0 0 0 9,676 0 0 0 0 0 47,217 4,585 34,636 6,084 2,465 202,558 5,125 696 468 2,167 39,603 1,877 277 1,200 17 63,331 3,396 594 410 0 306 150 12,362 0 8 30,982 296 591 591 3,545 7,923 0 0 0 0 6,453 0 0 0 0 <	INTRAMEL INDUSTRY UNIVERSITY N=P INST GOVERNMENTS PERFORMERS 34,713 3,633 1,802 160 542 105 1,375 3,633 1,802 160 542 105 1,368 0 0 0 0 0 0 0 902 26,263 5,924 1,923 9,632 0 902 26,263 5,924 1,923 9,632 0 9 6,571 0 0 644 9,676 0 0 0 0 0 85 0 0 0 0 0 0 47,217 4,585 34,636 6,084 2,465 10,391 202,558 5,125 696 468 215 0 63,331 3.896 594 410 0 23 306 12,362 0 8 4,796 7,023 0 0	INTRAMEL INDUSTRY UNIVERSITY H-P INST GOVERNMENTS PERFORMERS PERFORMERS PERFORMERS 34,713 3,633 1,802 160 542 105 3.293 1,375 3,633 1,802 160 542 105 3.293 1,368 0 0 0 0 0 0 0 0 902 26,263 5,924 1,923 9,632 646 0 0 0 0 0 0 0 0 9,676 0 0 0 0 0 0 0 0 47,217 4,585 34,636 6,084 2,465 10,381 4,105 202,558 5,125 696 468 215 0 395 68,830 1,118 3,186 3,145 2,107 1,060 461 39,603 1,877 277 1,200 17 742 403 <t< td=""></t<>

FISCAL YEAR 1982-83

(\$ THOUSANDS)

	INTRAMEL	CANADIAN INDUSTRY	CANADIAN UNIVERSITY	CANADIAN N-P INST	PROM. MUN. GOMERNMENTS	FOREIGN PERFORMERS	OTHER PERFORMERS	TOTAL
IN-HOUSE RED RED CONTRACTS SUPPORTING CONTRACTS RED GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTRAPURAL RED CAPITAL - RED	39,514 I,822 I,690 0 12,157 164	4, 258 4, 258 753 8 8 8	2,206 2,206 32,900 7,307 0 0	0 150 6,013 0 0 0	8 2,729 1,586 9 0	0 101 11,620 762 0 0	3, 899 3, 899 587 205 0 0	39,514 15,157 1,690 53,459 8,274 12,157 164
SUB TOTAL R&D	55,347	5,003	42,413	6, 163	4,315	12,483	4,691	139,415
DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS, STUDIES OPERN'S & POLICY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN, EXTRAMURAL RSA CAPITAL - RSA	150,819 79,997 44,228 71,214 331 31,059 8,176 6,732	5,933 1,374 2,149 3,978 150 307 80 0	664 3,831 199 564 13,450 614 0 0	463 3,222 1,346 498 0 614 0 0	229 2,110 3 0 3,684 0 0	1,213 858 4,824 0 0 0	438 479 490 738 736 844 8 0 0	158, 5 38 92, 226 49, 264 76, 994 19, 491 37, 113 8, 176 6, 732
SUB TOTAL RSA	392,547	13,882	19,322	6,135	6,026	6,895	3,717	448.524
The set of the probability of the probability of the set of the probability of the set	147.594	18.885	61,735	1.2 299	10.341	10-378		

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BY DEPARTMENT OR RGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-31		to any dark off any the statement of an one of	1981-82			1982-83	
OR AGENCY	R&D	RSA	TOTAL	R2D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE							50		1 200
AGR AGR-ADM	58	1,200	1,250	50	1,688	1,738	50	1,738	1,783
AGR-DEV	50	1,200	1,250	50	1,688	1,738	50	1,738	1,788
AGR-RI AGR-CGC					appl were name			and the loss	2010 0000 0000
CDC									145
CLFB COMMUNICATIONS	71	18	89	71	21	92	117	28	145
COMM	193	5,215	5,468	714 714	5,430	6,144	560	5,551 4,736	6,111 5,296
COMM-COMM COMM-AC	193	4,553 657	4,751		4, 447 983	5,161 983	560	815	815
CBC		3,636	3,636	480	4,042	4,042		4,607	4,607
CRTC NFB	602		682	679		679	819		819
NLIB		17,245	17,245		21,609	21,609		25,842	25,842
NMUS PA	1,889	33,395	35,204	3,586	34,057	37,643	5,098	34,388	39,486 13,689
SSHRC	25,568	16,310	42,378	27,374	18,727	46,601	35,726	20,950	56,676
CONSUMER AND CO		AFFAIRS 217	2,879	3,623	523	4,146	4,637	807	5,444
CCA-ADM	bits and who		man and the shade	3,832		3,032	3,855		3,855
CCA-CON CCA-COR	1,411 738	appar ana tany	1,411 788	1000 0.00 vow	game and such	2000 4444 4444			
CCA-CICP	463	217	689	591	523	1,114	782	807	1,589
ECONOMIC DEVEL	OPMENT	1,677	1,677	And have week	2,038	2,038		2,493	2,493
EMPLOYMENT & I		N					1 200		
EI-ADM	1,528	8,001 8,001	9,529 9,529	1,477	8,125 8,125	9,602	1,568	8,612	10,180 10,180
CEIC		7,758	7,758	30 7 1 T T	9,255	9,255		8,126	8,126
ENERGY MINES & EMR	RESOURCE	S 6,784	8,422	1,865	8,592	10,457	2,811	8,834	11,645
EMR-ENER		2,100	2,100		2,350	2,350		2,690	2,690
EMR-MES AECB	1,638	4,684	6,322	1,865	6,242	8,107	2,811	6,144	8,955
AECL				400.014					
NEB ENVIRONMENT	and approximate and	1,307	1,307		1,681	1,681		1,689	1,689
ENV	840		15,499	914	16,086	17,000	1,083	18,336	19,419
ENV-ADM ENV-ES	723	261 3,469	261 4,192	785	308 3,757	308 4,542	938	438	438
ENV-EPS			F F A Ser lass			nga nan nan	and over sold		
ENV-AES ENV-ECS	723	3,469	4, 192	785	3,757	4,542	938	4,533	5,471
ENV-FOR	white some source					while seven while		17 700	17 510
ENV-PC EXTERNAL AFFAI	117 RS	10,929	11,046	129	12,021	12,150	I 45	13,365	13,510
EA		5,929	5,929	with the other	6,650	6,650		7,220	7,220
EA-CIA CIDA	1,449	5,929 2,888	5,929 4,257	1,606	6,650	6,650 4,636	1,784	3,496	5,280
IDRC	14.003	5,685	19,688	14,793	6,807	21,600	18,402	8,328	26,730
IJC FINANCE	1000 ALL 1900	AAAA OAAA YEYE			adda allocat adurts	daada daada yara	areas failed failed		
FIN	with state street	8,514	8,514	20 - 4 - 0 - 10 -	10,077			12,613	12,613
FIN-FEP FISHERIES AND	OCEANS	8,514	8,514		10,077	10,077		12,613	12,613
F&O	825	2,675	3,500	854	2,576	3,430	946	2,846	3,792
F&O-FM INDIAN AFFAIRS	825 & NORTHE	2,675 ERN DEVELOP	3,500 MENT	854	2,576	3,430	946	2,846	3,792
IAND	1,177	760	1,937	1, 161	1,893	3,054	1,348	1,877	3,225
IAND-IIA IAND-NA	1, 177	760	1,937	1,159	378	380	13	382	395 2,830
INDUSTRY TRADE	AND COM	1ERCE							
ITC-TI	989 742	573 475	1,562	2,322 2,051	613 505	2,935	2,326 2,055	413 305	2,739 2,360
ITC-TOUR	247	38	345	271	108	379	271	108	379
ITC-GO				THE PARTY ALL	false reve man		and our out		AND 1070 AND

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

		1980-81			1981-82	no one one can the first opp and all the test of		1982-93	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
JUSTICE JUST JUST-ADM JUST-CUIO CHRC LRC	1 950	2,331 779 1,552 304 553	4,281 2,729 1,552 304 1,466	3,022 3,022 1,467		6,012 3,912 2,100 288 2,349	4,852 4,852	3, 262 1, 162 2, 180 325 1, 183	0,114 6,014 2,100 325 2,938
LABOUR LAB	603	3,210	3,813	662	3,529	4,191	745	3,079	4,724
	713 713	1,324 1,324	2,037 2,037	797 797	1,536 1,536	2,333 2,333	893 898	1,677 1,677	2,575 2,575
NATIONAL HEALT NHW NHW-ADM NHW-HSS NHW-MS		7,078 4,297 2,250	15,065 5,974 8,560	8,746 2,161 6,585	9,939 5,900 3,427	18,685 8,061 10,012	9,269 2,522 6,747	11,453 6,427 4,064	20,727 8,909 10,011
NHW-HP NHW-IS MRC	- 10 10- 100	531	531	ana Ali Ma	612	612	840 von ago non ann 1850 von ann	917	917
NATIONAL REVEN NREV NREV-TAX PRIVY*COUNCIL	827 827	3,659 3,659	4,486 4,486	8 28 828	9,890 9,890	10,718 10,718	796 796	6,190 6,190	6,986 6,986
PC COL ECC PUBLIC WORKS	549 7,019	975 1,011	549 975 8,030	589 6,440	1, 172 952	589 1,172 7,392	89 6,814	3,097 1,000	89 3,097 7,914
PW-PTS				ware ware	1000 1000 1000		1999 1990 1990		
CMHC NCC REGIONAL ECONO	2,758 10 MIC FXPA	6,696 82 NSTON	9,454 92	3,300 16	7,731 321	11,031 337	3,455 10	8, 216 199	11,671 209
REE	872	840	1,712	1,071	1,259	2,330	1,258	1,439	2,697
ST NRC		7,004	7,034		8,035	8,035	the side was	8,917	8,917
NRC-SIR NRC-STI NSERC			ann ann ann	994 Ann Ann 474 Mar 494	1000 1000 1000 1000 1000 1000	ann 1007 1000. Ann 2019 1025 Ann 2019 1025			
SC SECRETARY OF S		1,392	2,890	1,912	1,630	3,542	2,201	1,946	4, 847
SECS SECS-OL SECS-ES SECS-TRA	5,845 480 2,868	3,228 373 139 2,253	9,073 853 139 5,121	5,992 509 3,200	4,025 307 415 2,481	10,017 816 415 5,681	6,415 724 3,108	4,526 307 895 2,227	10,941 1,031 895 5,335
SECS-CIT PSC	2,497	463	2,960	2,283	822	3,105	2,583	1,097	3,680
SGEN-ADM RCMP	2,415 2,415	I,760 1,760	4, 175 4, 175	3,013 3,013	2,656 2,656	5,669 5,669	3,013 3,013	2,156 2,156	5,169 5,169
STCAN	VICES 211 211 5,828	351 351 138,306	562 562 144, 134	198 198 8,108	358 358 221,857	556 556 229,965	196 196 9,324	358 358 177,895	554 554 187,219
TRANSPORT TPT TPT-ADM TPT-MAR	118	916 916	1,034 933	148 28	1,152 1,152	1,300 1,180	195 30	1,474 1,474	1,669 1,504
TPT-AIR TPT-SUR CTC TREASURY BOARD	101 1,439	1,319	101 2,758	120 1,462	1,253	120 2,715	165 1,732	1,523	165 3,255
TB TB-ADM	$\begin{array}{c}113\\113\end{array}$	10,553 10,553	10,686 10,666	113 113	12,814 12,814	12,927 12,927	128 128	15,316 15,316	15,444 15,444
TOTAL	95,072	348,575	443,647	109,473	469,749	579,222	130,415	448,524	578,939

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

	and and for any set of the set of the set	1980-81	anna aigh agus men han han men men men din	THE OVER THE REAL OF A DATE THE OVER THE PART	1981-82		1982-93			
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTEA- MURAL	EXTRA- MUPAL	TOTAL	
AGRICULTURE	1,250	an tam pan ana mpa ana ana ana 193 Pan Ada da	1,250	1,799	38	1,738	1,725	63	1,793	
AGR-ADM		work which fields	1,250	1,790	33	1,738	1,725	G.7	6,290	
AGR-DEV AGR-RI	1,250	and the state	1,200	1,790		1,100	1,724		5 F 1 10	
AGR-CGC CDC	and when and	anne wenn shirt	and have been	Anna Anna Anna	AAAA MITA YAY				145	
CLFB COMMUNICATIONS	69 S	20	89	82	10	92	100	45		
COMM COMM-COMM COMM-AC CBC CRTC	4, 152 3, 767 385 1, 738 534	1,256 384 272 1,898 68	5,408 4,751 657 3,636 602	4,221 3,672 549 1,867 519	1,923 1,439 434 2,175 160	6,144 5,161 983 4,042 679	4, 326 3, 876 450 2, 123 569	1,703 1,420 365 2,484 250	5,111 5,206 815 4,307 919	
NED	www. basis allow	1444 + 400 - 1707	and full sum	21,536	73	21,609	25,796	46	25,842	
PA SSHRC	17,225 29,204 10,817 4,002	20 6,000 38,376	17,245 35,204 10,817 42,378	21, 535 31, 559 11, 969 4, 451	6,084 42,150	21,605 37,643 11,968 46,691	25,795 33,230 13,689 5,328	6,256 51,348	39,406 13,509 56,676	
CONSUMER AND CCA CCA-ADM	2,076	803	2,879	2,659 2,945	1,487 937	4,146	3,720 2,761	1,724 1,094	5,444 3,955	
CCA-CON CCA-COR CCA-CICP	852 705 519	559 83 161	1,411 78 8 680	614	500	1,114	359	632	1,509	
ECONOMIC DEVE: ED	I, 527	150	1,677	1,888	150	2,038	2,343	159	2,493	
EMPLOYMENT & EI EI-ADM CEIC	IMMIGRATIO 8,638 8,638 4,573	891 891 3,185	9,529 9,529 7,758	8,733 8,733 8,436	869 869 819	9,602 9,602 9,255	9,272 9,272 7,326	998 998 899	10, 100 10, 130 8, 136	
ENERGY MINES EMR EMR-ENER EMR-MES	6,219 1,490	2,203 610 1,593	8,422 2,100 6,322	7,957 1,670 6,287	2,500 680 1,820	10,457 2,350 8,107	8,105 1,910 6,195	3,549 789 2,769	11,645 2,608 8,905	
AECB AECL NEB	1, 295	 12	1,307	1,648	33	1,681	1,689	and the second second	1,600	
ENVIRONMENT ENV ENV-ADM ENV-ES ENV-EPS	14,892 261 3,767	607 425	15, 499 261 4, 192	16,332 303 4,074	668 468	17,090 398 4,542	18,635 438 4,910	784 561	19,419 438 5,471	
ENV-AES ENV-ECS	3,767	425	4, 192	4,874	468	4, 542	4,910	561	5,471	
ENV-FOR ENV-PC	10,864	182	11, 246	11,950	200	12,150	13,287	223	13,510	
EXTERNAL AFFA EA EA-CIA CIDA IDRC IJC		1,612 2,619	5,929 5,929 4,257 19,688	4,888 4,888 1,763 10,221	1,762 1,762 2,873 11,379	6,650 6,650 4,636 21,600	5,282 5,282 2,093 12,540	1,938 1,938 3,187 14,190	7,228 7,228 5,289 26,718	
FINANCE FIN FIN-FEP	8,514 8,514	4000 Anna 1000	8,514 8,514	19,077 10,077	ang kan kan	10,077 10,077	12,613 12,613	anda balta batta	12,613 12,613	
FISHERIES AND F&O F&O-FM	3,200 3,200	300 300	3,500 3,500	3, 130 3, 130	300 300	3,430 3,430	3,470 3,470	322 322	3,792 3,792	
INDIAN AFFAIR	S & NORTHE 1,319	618	1,937	1,683	1,371	3,054	1,603	1,622	3,225	
IAND-IIA IAND-NA INDUSTRY TRAD	1,319 E AND COMM	618 ERCE	1,937	80 1,603	300 1,071	38Ø 2,674	95 1,508	300 1,322	395 2,830	
ITC-TI ITC-TUR ITC-GO	236 47 189	1,326 1,170 156	1,562 1,217 345	259 51 208	2,676 2,505 171	2,935 2,556 379	263 55 208	2,476 2,305 171	2,739 2,360 379	

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

\$ THOUSANDS)

NCDADTHAT		1980-81	- en las die ann nee ere van ann ann ere e		1991-08			1982-83		
DEPARTMENT OR AGENCY	INTRA- MURAL	ENTRA- FURBL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	
JUSTICE										
JUST-ADM	2,497 945	1,784 1,784	4,231 2,729	3,451 1,351	2,561 2,561	6,012 3,912	4,311 2,211	3,803	8,114 6,014	
JUST-CUIO	1,552	000 000 0700	1,552	2. t60		2,100	2,100		2,190	
CHRC LRC	304 542	924	384 1,466	288 989	1,660	288 27349	325 870	2,068	325 2,938	
LABOUR	7 445									
HADIONAL DEFEN	3,446 ICE	367	3,813	3,790	401	4,191	4,272	452	4,724	
HDEF HOEF-SER	1,912	125	2,037	2,170 2,170	163	2,333	2,417	158	2,575	
NATIONAL HEALT	1,912 TH AND WEL	125 Fare	2,937	2,170	163	2,333	27412	158	2,575	
NHW-ADM	5,980 4,254	9,165 1,720	15,065	7,773	10,912 2,235	18,685	9,006 6,744	11,721	20,727	
NHW-HSS	1, 115	7,445	8,560	1,335	8,677	8,061 10,012	1,345	2,255 9,466	8,999 13,811	
NHW-MS NHW-HP			the second second	1010 1000 1000	1999 AND 1999	4000 (P 1010)				
NSAF IS	531	allah alam war	531	612	100 1000 1000	612	917		917	
MRC NOTIONAL DEVEN				10-0 (0-1 - 1-1))	1000 Black 01-0	view man were	WWW 547.0 (100)			
NATIONAL REVEN	4,496		4,486	10,718		10,718	6,936		6,986	
NREV-TAX	4,486	and a summer of summer	4,486	10,718		10,718	6,986		6,986	
PRIVY COUNCIL PC		549	549	1000 TTO 1000	589	589		89	89	
COL ECC	975		975	1,172	40.0	1,172	3,097	40.5	3,697	
PUBLIC WORKS	7,407	533	8,030	6,902	490	7,392	7,319	495	7,814	
PM PM-PTS			and some some	Here and all all	serve action second	-alt was and			ware and ware	
CMHC	6,231	3,223	9,454	6,295	4,736	11,031	6,835	4,036	11,671	
NCC Regional Econo	43 MIC EVON	49	92	131	206	337	69	140	209	
REE	820	892	1,712	1,811	1,319	2,330	1,198	1,499	2,697	
SCIENCE AND TE		532	7 994	7 5 40	40.0	0.075	0 200	6.75	0.017	
ST NRC	6,472	200	7,004	7,549	486	8,035	8,382	535	8,917	
NRC-SIR		and the same	were both disk.	Never disc such	10.00 mpage 10.00	10707 10708 10707				
NRC-STI NSERC		10.00 (10.00 (10.00)	while leader more	10.00 0000 00.00	100 -01 100		1.00 AND 1010	Appr 2010 1994	youry is an analysis ,	
SC	2,584	386	2,890	2,937	605	3,542	3,357	690	4,847	
SECRETARY OF S	4,742	4,331	9,873	5,724	4,293	10,017	5,453	5,488	10,941	
SECS-OL SECS-ES	.71	782	853	91	725	816	91	940	1,031	
SECS-TRA	139 4,459	662	139 5,121	415 5,141	548	415 5,681	465	430 790	895 5,335	
SECS-CIT	73	2,887	2,960	77	3,028	3,105	352	3,328	3,680	
PSC SOLICITOR GENE	RAL	term there have		and diffe with		AMA AMA 1799		ARM 2792 1772	ANN ANN MAN	
SGEN ODM	1,525	2,650	4, 175 4, 175	1,810	3,859	5,669	1,810	3,359	5,169	
SGEN-ADM RCMP	1,525	2,650	47170	1,810	3,859	5,669	1,810	3,359	5,169	
SUPPLY AND SEP	RVICES 4	558	562	4	552	556	4	550	554	
SS-SUPP	4	558	562	4	552	556	4	550	554	
STCAN TRANSPORT	144,044	98	144, 134	229,844	121	229,965	187,110	109	187,219	
TPT	483	551	1,034	666	634	1,300	1,140	529	1,669	
TOT-ADM TPT-MAR	393	540	933	571	689	1,180	975	529	1,504	
TPT-AIR		~	100 No. 199	And then any	which water much	-				
TPT-SUR CTC	90 2,330	428	101 2,758	95 2,237	25 478	120 2,715	165 2,777	478	165 3,255	
TREASURY BOARD)									
TB TB-ADM	10,553 10,553	113 113	10,666 10,666	12,814 12,814	113 113	12,927 12,927	15,316 15,316	128 128	15,444 15,444	
TOTAL	343,506	100,141	443,647	465, 544	113,678	579,222	447,894	131,045	578,939	

INTRAMURAL, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		198081			1981-82			1982-93	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
GRICULTURE									
AGR	50	1,200	1,250	50	1,650	1,700	50	1,675	1,725
AGR-DEV	50	1,200	1,250	50	1,650	1,700	50	1,675	1,725
CLFB	51	18	69	61	21	82	77	23	100
COMMUNICATIONS		4 4 5 5	4 4 7 7		1	1 001		1 700	4 700
COMM-COMM		4,152	4,152		4,221 3,672	4,221		4,326 3,876	4,326
COMM-AC		3,767 385	3,767 385	Allow Assoc and	549	549		459	450
CBC		1,738	1,738		1,867	1,867		2,123	2,123
CRTC	534		534	519	17001	519	569		569
NLIB		17,225	17,225		21,536	21,536		25,796	25,796
NMUS	1,640	27,564	29,204	3,410	28,149	31,559	4,893	28,337	33,230
PA		10,817	10,817		11,960	11,960		13,689	13,689
SSHRC	2,054	1,948	4,002	2,269	2,182	4,451	2,998	2,330	5,328
ONSUMER AND C									
CCA	2,020	56	2,076	2,601	58	2,659	3,543	177	3,720
CCA-ADM			0	2,045		2,045	2,761	dank same with	2,761
CCA-CON	852		852		artist dollar dollar	0			0
CCA-COR	705	-	705			0			0
CCA-CICP	463	56	519	556	58	614	782	177	959
ECONOMIC DEVEL	LOPMENT							0.7.17	0 747
ED		1,527	1,527	A.010 - 1111 - 1110	1,888	1,888		2,343	2,343
EMPLOYMENT & I			0.020	1 (20)	7 705	0 777	1 510	7 75 4	0 272
EI	I,465	7,173	8,638	1,428	7,305	8,733	1,518	7,754	9,272
EI-ADM	1,465	7,173	8,638 4,573	1,428	7,305	8,733	1,518	7,326	7,326
CEIC ENERGY MINES &			4,010		0,430	0,430		1,020	1,920
EMR	45	6, 174	6,219	45	7,912	7,957	51	8,054	8,105
EMR-ENER		1,498	1,490		1,670	1,670		1,910	1,910
EMR-MES	45	4,684	4,729	45	6,242	6,287	51	6,144	6,195
NEB		1,295	1,295		1,648	1,648	www.recr.ch/b	1,689	1,689
ENVIRONMENT									
ENV	640	14,252	14,892	679	15,653	16,332	815	17,820	18,635
ENV-ADM		261	261		308	308		438	438
ENV-ES	640	3,127	3,767	679	3,395	4,074	815	4,095	4,910
ENV-ECS	640	3,127	3,767	679	3,395	4,074	815	4,095	4,910
ENV-PC		10,864	10,864	design were super-	11,950	I1,950		13,287	13,287
EXTERNAL AFFA	IRS	4 212	4 24 2		4 000	4 000		5,282	5,282
EA		4,317	4,317		4,888	4,888		5,282	5,282
EA-CIA	224	4,317	4,317	266	4,888	4,888	284	1,809	2,093
CIDA	4,247	4,514	1,638	4,965	5,256	10,221	6, 126	6,414	12,540
IDRC FINANCE	4, 241	4, 314	0,101	4,000	3,230	10,221	0,120	0,414	127040
FIN		8,514	8,514		10,077	10,077		12,613	12,613
FIN-FEP		8,514	8,514		10,077	10,077		12,613	12,613
FISHERIES AND		01014	0,014		10/011	10/011			
F&O	825	2,375	3,200	854	2,276	3,130	946	2,524	3,470
F&0-FM	825	2,375	3,200	854	2,276	3,130	946	2,524	3,470
INDIAN AFFAIR		ERN DEVELOR							
IAND	630	689	1,319	700	983	1,683	571	1,032	1,603
IAND-IIA			0	2	78	80	13	82	95
IAND-NA	630	689	1,319	698	905	1,603	558	950	1,508
INDUSTRY TRAD									
ITC	138	98	236	151	108	259	155	108	263
ITC-TI	47		47	51		51	55		55
ITC-TOUR	91	98	139	100	108	208	100	108	208

PUMON SCIENCES

FEDEROL EXPENDITURES ON SCIENTIFIC ACTIVITIES

INTERNURAL, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
USTICE									
JUST	677 677	1,820	2,497 945	1,013	2,438 338	3,451	1,825	2,436	4, 311
JUST-ADM JUST-CUIO		268 1,552	1,552	1,013	2.180	1,351 2,100	1,823	2,100	2,211
CHRC		304	304		283	288		325	325
LRC LABOUR	246	296	542	387	302	689	511	359	878
	411	3,035	3,446	452	3,338	3,790	509	3,763	4,272
ATIONAL DEFEN	CE								
NDEF NDEF-SER	713	1,199	1,912	797 797	1,373	2,170	898 898	1,513	2,417
ATTONAL HEALT	H AND WET		1, 512	rər	1,373	2,170	030	, 1, 519	2,417
нны мны-арм мны-нее	2,147	3,753	5,900	2,633	5,140	7,773	2,998	6,033	9,086
NHW-ADM NHW-HSS	1,527 620	2,7 27 495	4,254	1, 996 637	3,830 698	5,826	2,337 661	4,497 684	6,744
NHW-IS	010	531	531		612	612		917	917
ATIONAL REVEN	UE								A A A A
NREV-TAX	827	3,659 3,659	4,486	828 828	9,890 9,890	10,718	796 796	6,190 6,190	6,986
PRIVY COUNCIL			47400	020	57050	101110	100	-97100	07500
COL		975	975		1,172	1,172		3,097	3,897
ECC RUBLIC WORKS	6,486	1,011	7,497	5,050	952	6,902	6,319	1,000	7,319
CMHC	1,620	4,611	6,231	1,650	4,645	6,295	1,780	5,855	6,835
NCC RODUCT RODUC		43	43	minh from onto	131	131		69	69
REGIONAL ECONO REE	MIC EXPHP 820	45 I UN	820	1,011		1,011	1,198	and our our	1, 198
SCIENCE AND TE							.,		
ST		6,472	6,472		7,549	7,549		8,392	8,302
SC ECRETARY OF S	1,112 TATE	1,392	2,504	1,307	1,630	2,937	1,511	1,846	3,357
5ECS	2,378	2,364	4,742	2,950	2,774	5,724	2,608	2,845	5, 453
SECS-OL		71	71		91 415	91		91 465	91
SECS-ES SECS-TRA	2,378	2,081	4,459	2,950	2,191	415 5, 141	2,608	1,937	465 4, 545
SHOS-CIT		73	73		77	77		352	352
SOLICITOR GENE		750	1,525	0.20	070	1.010	070	070	1.019
SGEN-ADM	775 775	750 750	1,525	938 938	872 872	1,810 1,810	938 938	872 872	1,810
UPPLY AND SER	VICES								1,010
SS-SUPP	1	33	4	1	3	4	1	3	4
	5,828	138,216		8,103	221,736	229,844		177,786	
I'RANSPORT									
TPT TPT-ADM	93 3 90	390 390	483	102	564	666	173 8	967	1,149
TPT-SUR	90		393 90	95	564	571	165	967	165
CTC	1,139	1,191	2,330	1,092	1,145	2,237	1,362	1,415	2,777
TREASURY BOARD		10,553	10,553		12,814	12,814		15,316	15,316
TB-ADM		10,553	10,553	11-12 and 11-12		12,814		15,316	15,316
TOTAL	39,836	303,670	343,506	47,217	418,327	465,544	55,347	392, 547	447,894

INDUSTRY, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
OR RGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
CRICULTURE									
AGR-DEV	-		0		25 25	25 25	ada 1999 dala	50 50	50 50
CLFB			Ø	Adda WHEN WHEN	600 MP	0	20	5	25
COMM	193	984	1,177 929	714 714	1,089	1,803	560 560	1,130 790	1,690
COMM-COMM COMM-AC	193	736	248		384	384		340 2,484	340
CRTC		1,898	1,898	and the area	while wants which	0	50		50
US SUMER AND CC			292		295	295		307	307
CCA-ADM	122	70	192 Ø	209	150	359 209	233	200	433 233
CCA-CON CCA-COR	99 23		99 23	400 Aug 2010		0			0
CCA-CICP NOMIC DEVELO		70	70		150	150	where were still	209	200
ENPLOYMENT & IM		N 718	725	49	820	869	50	858	908
EI-ADM CEIC	7	719 1,701	725	49	820 779	869 779	50	858 800	908 800
ELERGY MINES &	RESOURCE	5	610		680	680		780	782
HR-ENER		610 610	610	-	680	680		780	780
ENU I RONMENT	39	290	329	54	318	372	62	38 3 38 3	445
ENV-ES ENV-ECS	11	289 289	300 300	23	317 317	340 340	27	383	419
ENV-PC TERNAL AFFAIR	28 IS	1	29	31	1	32	35		35
HANCE SHERIES AND C	CEANS								
INDIAN AFFAIRS	194	20	214	52	33	85	418	100	518
INND-NA	194 AND COMM	20 ERCE	214	52	33	85	418	100	518
TC-TOUR	156 156		156 156	171 171	100 000 100	171	171		171
LISTICE		257	257	mpin many simil	580	580		829	829
N SOUR	45	75	120	49	82	131	55	93	148
DEF		72	72		85	85		82	82
HDEF-SER	LOND LIET	7.2	72		85	85		82	82
HHH	99	F MKE	99	75	540	615	90	976	1,066
HW-HSS	99 IE	and and det	99	75	540	615	90	976	1,886
TRIPY COUNCIL	296		296	300		300	300		300
PUBLIC WORKS	1,015	597	1,612	1,490	878	2,368	1,520	898	2,418
REGIONAL ECONON	IC EXPAN	34 SION	34	NAME AND	190	190	aper the Add	130	130
BES SCIENCE AND TEC	52 HNOLOGY	626	678	69	1,046	1,106	60	1,230	1,290
SECRETARY OF ST	152	870 and 187	152	247	470 700 400	247	282	est ord and	282
SECS SECS-OL		302 302	302 302	1000 vera 1000	550 200	550 200		980	980 200
SECS-ES SECS-CIT	main that were		0		350	0 350		430	438 350
SOLICITOR GENER		685	1,320	833	615	1,448	850	615	1,465
SGEN-ADM SUPPLY AND SERV	635	685	1,320	833	615	1,448	850	615	1,465
S5	95	348	443	82	355 355	437	82	355 355	437 437
S-SUPP TAMSPORT	95	348	443	82		437	OC		431
TPT TPT-ADM		508	508 508		569 569	569 569		489	499
TREASURY BOARD	150	128	278	200	108	308	200	108	308
	3,258	18.215	15,465	3.585	11.962	18.547	5.383	15.692	18.085

UNIN'ERSI'T EN DEPARTMENT OR AGENCY

THOUSANDS)

DEPARTMENT		1566-81			1981-82			1982-83	
	R8.D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
RICULTURE									
- m.R			0	1000 1000 1000	13	13		13	13
GIR-DEV CLFB	3		3 3	404 YES 1997		13	1997 A.M. 1998	13	13
CONTRACTIONS		57	57		100	100		35	95
COMM-COMM		33 24	33 24		69 49	60 48		79 25	70
OR TC			9	40	weir ma ma	43	85		65
	3,514	583 9,749	583 33,263	25,605	591 11,045	591 36,650	32,728	614 12,439	614 45,158
SUMER AND COR	PORATE 2	AFFAIRS 10	84	245	100	345	277	198	377
CCA-ADM CCA-CON	20		23	245		245	277		277
CCA-COR	54		54			0			6
COA-CICP DHOMIC DEVELOP		16	10		109	100	100 ALC 100	102	100
PLOYMENT & IMM	IGRATION	10	10			0		-	
I-ADM IC	400 00- edu	10	13 18			0		units which which	2
FRGY MINES & R	ESOURCES	18		and also also	17	17	and and all		
EMR-MES	125		125	125		125	125		125
	63		63	68	-	68	70	AND 077 100	70
EMV-ES	63	and we are and	63	60	And the second	60	70		70 23
ENV-ECS	63	and the set	63	60	head adult tout	60	70	MAR AND THE	25
- A-CIA		1,48 0 1,480	1,480 1,480		1,620 1,620	1,620 1,620		1,782	1,783 1,783
L DA L HRC	358 25	1,232	1,582	488 202	L 355 23	1,755	499	1, 191	1,891
LUNCE			20	202	60	225	542	31	573
HERIES AND OC	ERNS	109	130		100	190		193	198
TRO-FM Dign Affairs &	NOPTHE	180 PN DEVELOPI	180 MENT	grag	180	100	100 100 mm	1:39	122
ID ID	- 117		139	167	33	200	194	15	209
IND-NA UNISTRY TRADE A			139	167	33	200	194	15	209
ITC-TI	695 695	475	1,170 1,178	2,909 2,999	505 535	2,585 2,585	2,080 2,080	305 305	2, 305 2, 305
TICE T		32	32	210000	46			51	
JIST-ADM		32	32		46	46 46		51	5 I 5 I
	125	45	170	137	49	186	154	55	203
IONAL DEFENCE		53	53		78	78	100 100 m	76	76
HDEF-SER	OND UPT T	53	53	M014 40004	78	28	ALC: 1.1	76	29
	3,500	923	4,432	3,787	1,041	4,928	3,774	1,159	4,933
HW-ADM HW-HSS	150	923	158	165 3,622	1.041	165 4,663	185 3,589	1,159	185 4, 749
IONAL REVENUE				0,010			3,000	A.F. 8-0-0-	1711-203
. CODACIL	40		43	53		53	8		5
LIC WORKS	197		197	150	and one one	150	150		158
LIC LONAL ECONOMI	17 C EXPANS	623 STON	645	35	912	947	35	935	979
NCE AND TECH	the over the	19	ЕЭ		4	4			3
MICE HID IECH		2	2	-		Ø	1440 - 1107 - 1107	ware were made	13
RETARY OF STA	22 TE	where while were	55	54	WWW black form	54	61		64
SICS-TRA	498 498		492 490	258 259	55	305 250	509 509	55	555
SICS-CIT			9.00		55	55		55	598 55
DLICITOR GENERA	L 879	29	839	1,072	1000 1000	1,072	1,055		1,055
JEN-ADM PLY AND SERVI	879 CES	20	839	1,072	100 tot	1,072	1,055	Adda -1071 (1001	1,055
	-114		114	88		88	88	A20 1A46 1997	89
SS-SUPP	114	had min had	114	88	THE DEP AND	83	88	40% Auro%	89
TPT-ADM	$\frac{14}{14}$	18 18	32 32	21 21	19 19	49 48	22 22	15 15	37 37
C TASURY BOARD	125		125	145		145	145		1/15
					*****	·····			
	8,587	15, 479	45.260	341.636	17.786	52.302	42:413	SSE (6)	617735

NON-PROPERT EXPECTIONS, BY DEPARTMENT OR AGENCY

THOUSANDS)

DEPARTMENT		1980-81			1981-82			1932-33	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
GRICULTURE									
COMMUNICATIONS		8	8	AND 1000 1000	20	20			0
COMM-COMM		8	8		10	10			9
COMM-AC CRTC	34		Ø 34	35	10	10 35	40	Ann	49
MMUS		583 2,582	583	AND 1990 4490	591 2,400	591 2,400		614 2,701	614 2,701
CHSUMER AND CO	RPORATE A	AFFAIRS							
CCA CCA-ADM	11		11	13	ville and road	13	14 14		14
CCA-CON	11		11			0			8
CONOMIC DEVELO	PMENT	150	150		150	150		150	150
HPLOYMENT & IM	MIGRATION	4				2			0
E I E I – ADM	NOT 100 100	100 100	100			8	and the data		3
HERGY MINES &	RESOURCES	3							
TERNAL AFFAIR									
IDRC INANCE	298	400 1010 1000	298	247	71	318	372	109	481
ISHERIES AND O	CEANS								
NDIAN AFFAIRS : IAND		RN DEVELOPI 9	MENT 9	115	525	640	115	385	500
IAND-NA		9	9	115	525	640	115	385	590
HDUSTRY TRADE	AND COMME	ERCE							
JUST	611	300	911	700	300	1,000	420	498	820
JUST-ADM LRC	611	300	911	700	300	1,000	420 8	400	828
LAB	15		15	16		16	18		19
TIONAL DEFENC	E		1.5	10		10	10		10
TIONAL HEALTH	AND WELL	FARE 670	2,558	1,961	903	2,864	2,098	903	3,001
HHW-HSS	1,888	670	2,558	1,961	903	2,864	2,098	983	3,001
TIONAL REVENU	E								
PC *	500		500	536	480.070 480	536	81		81
LCC WELIC WORKS	10		10	15	water wanter where	15	30		30
CMHC	47	331	378	40	514	554	35	533	568
GIONAL ECONOM		DI UN							
SC ECRETARY OF ST	26 DTF	and show and	26	30		30	33		33
SECS	2,409	140	2,549	2,224	340	2,564	2,739	340	3,079
SECS-OL SECS-CIT	480	140	480	509	340	509 2,055	724 2,015	340	2,355
OLICITOR GENER	AL				0.0				
SGEN-ADM	26 26	10	36 36	32 32		32 32	32 32		32
UPPLY AND SERV									
TRANSPORT									
TB TB-ADM	113	-	113	113		113	128		128
IOTAL	5,988	4,803	10,791	6,084	5,814	11,898	6,163	6,135	12,298

PROVINCIAL & MUNICIPAL GOVERNMENTS, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1982-81	1982-81				1982-83		
OR AGENCY			TOTAL		RSA		R&D	RSA	TOTAL
GRICULTURE									
OMMUNICATIONS NMUS		10 C 10 Q	3,499	440 400 400	3,545	3,545	AB* 400 8-0	3,684	3,684
ONSUMER AND C CCA		AFFAIRS	16	19		19	21		2
CCA-ADM			8	19	Part 400 (00)	19	21		2
CONOMIC DEVEL			16	ware real and	shink wheek adults	0		-	
MPLOYMENT & I	MMIGRATIO		7.0						,
EI E1-ADM	36		36 36	and and per		0 19	derie man man		6
NERGY MINES 8									
EMR-MES	1,468		1,468 1,468	1,691		1,691	2,635		2,635
EMR-MES NVIRONMENT			., ,00	27 UV 2		.,	2,000		E7 (0)
XTERNAL AFFA1 INANCE	RS								
ISHERIES AND									
NDIAN AFFAIRS IAND		RN DEVELOP	MENT		19	10		25	-
IAND-NA			0		19	19		25	25
NDUSTRY TRADE	AND COMM	ERCE							
JUST	219		219	418		418	1,292		1,292
JUST-ADM ABOUR	219		219	418	and along state	418	1,292		1,292
ATIONAL DEFEN	CE								
ATIONAL HEALT		FARE	1 007		0.400				
NHW-ADM NHW-ADM NHW-HSS ATIONOL REVEN	207	1,570	1,827 1,570	153	2,106 2,070	2,259 2,070	184	2,090 2,070	2,27
NHW-HSS	257		257	153	36	189	184	20	204
ATIONAL REVEN RIVY COUNCIL	UE								
IBLIC WORKS									
CMHC NCC	25	7	32	35	13	48	35 10	15	50
EGIONAL ECONC	MIC EXPANS	5 I ON	U 1	4. 4	200 000 000	1 1	10	and and the	10
REE	ally and out	195	195		209	209		209	209
CIENCE AND TE ECRETARY OF S									
OLICITOR GENE	RAL								
BGEN SGEN-ADM	100	20 20	120 120	138		138	138 138	dally man man	138
UPPLY AND SER	VICES	20	169	100		100	100		130
RANSPORT TPT									
TPT-ADM			0		1000 0.000 0.000	0	and a second second	3	
REASURY BOARD						-			· · ·
OTAL	2,131	5, 291	7,422	2,465	5,892	8,357	4,315	6,026	10,341

FOREIGN, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT	ma na un un re dir lai .	1980-81			1981-82			1982-03	
OR AGENCY	R&D	RSA	TOTAL	Rad	RSA	TOTAL	R&D	365	3'07'91.
AGRICULTURE									
COMMUNICATIONS NLIB		20	20	field may with	73	73	tere anno vielle	45	43
SSHRC CONSUMER AND C		2,611	2,611		3,100	3,100	and more allow	3,415	3, 495
CCA CCA-ADM	38		38	43 43		43	47 47		
CCA-CON ECONOMIC DEVEL	OPMENT	NAME NAME ADDR.	33			2			3
EMPLOYMENT & 1 E I		Ν	29			3			а
EI-ADM	20		20	1000 MAX - 000		0			13
CEIC ENERGY MINES 8	RESOURCES	39 5	39	4000 Mino Adia	23	23	Lore mon Lore		n
ENVIRONMENT EXTERNAL AFFAI	IRS								
EA EA-CIA		132	132	4000 000 000	142	142		156 156	156
CIDA IDRC	875 9,231	162	1,037	940 9,210	173	1,118	$\frac{1.100}{11.157}$	196 15670	1,2.55
FINANCE FISHERIES AND	OCEANS								
INDIAN AFFAIRS INDUSTRY TRADE	5 & NORTHE	RN DEVELOP	MENT						
JUSTICE LABOUR									
NATIONAL DEFEN	CE	EADE							
NHM	84	62	146 146	126 126	92 92	218 218	1 2 5 125	155	283 203
NHW-HSS NATIONAL REVEN		62	145	126	92	210	120	1.1.1	Let the
PRIVY COUNCIL ECC	30		30	25	and west west	25	15		15
PUBLIC WORKS CMHC	-	338	338		495	495	100 AAA AAA	400	400
REGIONAL ECONO SCIENCE AND TI									
ST SC	7	528	528 7		435	485	14	534	534
SECRETARY OF SOLICITOR GENI									
SGEN SGEN-ADM		50 50	50	100 000 AAA	50 50	50		50 50	50 58
SUPPLY AND SEI		81	81	Nov 200 000	121	121	hard apportunit	199	1/19
TRANSPORT	25	01	25	25		25	25		25
CTC			20	23		60	2.3		
CTC TREASURY BOARI	D							the same and same and same and same and	the size dies are not a sur-

OTHER, BY DEPARTMENT OR AGENCY

(1) THOUSANDS)

DEPORTMENT		1030-31			1901-82			1982-83	
OB NGENCY	E&D	RSa	TOTAL	E&D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE									
CLF3	17		17	10	100 Bas 100	10	20		20
CONMENTICATIONS CONNECTIONS		14	14	and state over-		0		have state have	Ø
COMM-COMM CNTC	34		14 34	85	1.00 UT0 1440	9 85	75		0 75
- HMUS CONSUMER AND CO	169	874	1,013	17:5	886	1,062	205	,832	1,037
CONSUMER RAD CO CON	331	81	462	493	215	788	502	330	832
ССА~АРМ ССА~СОН	375		0 375	453	and any one	458	502		502 0
CCA-COR CCA-CICP	6	81	6 81	35	215	0 250		330	0 330
ECONOMIC DEVELO	OPMENT		0.1	55	6.1.0	200		000	000
EMPLOYMENT & II CEIC	MIGRATIC	1,427	1,427	And any star	which fields rapid	0	and with store		0
ENERGY MINES &	RESOURCES		0	4		4	-0.0 -00 -000	And 100 120	Ø
EMR-MES		the the sea	9	4		4	area man man	Add with star	0
NEB ENVIRONMENT		12	12	and and strong	33	33	www.soc.ubit	was not will	0
ENV-ES	98 9	117 53	215 62	121 23	115 45	236 68	136 26	133	269 81
ENV-ECS	- 9	53	62	23	45	68	26	55	81
ENP-PC EXTERNAL AFFAII	89 RS	64	153	33	79	168	110	78	188
IDRC FINANCE	202	102	384	163	85	254	205	184	309
FISHERIES AND (DCEANS				000			222	222
FRO FRO-FM		288	200	when more milling	200 200	200 200	400 800 900	222	222
INDIAN AFFAIRS	& NORTHE: 236	RN DEVELOP	MENT 256	127	388	427	50	320	370
IAND-IIA			8		300	390		300	300
IAND-NA INDUSTRY TRADE	236 AND COMM	20 ERCE	256	127	Allow and and	127	50	20	70
JUSTICE	443	179	622	891	206	1,097	1,315	325	1,640
JUST-ADM	443	179	622	891	206	1,097	1,315	325	1,648
LRC LABOUR	667	more which which	667	1,073	And the state	1,073	1,231	ANNO trans. unlik	1,231
LAB NATIONAL DEFEN	7	55	62	8	60	68	9	68	77
NATIONAL HEALT	H AND WEL							100	
NHW-HSS	3	100 100	103	1 1	117	128 128		167 167	167 167
NATIONAL REVEN									
PRIVY COUNCIL PUBLIC WORKS							- 2	202	B 40
CMHC NGC	34	184	218	50 5	274	324 5	50	290	340 8
REGIONAL ECONO		SION							
SCIENCE AND TE		2	2		1	1		1	700
SECRETARY OF S	179 Tate	1000 100 PUN	179	262		262	300	and, open mitte	300
SECS SECS-OL	568	422	990 0	568	306 16	874 16	568	3Ø6 16	874
SECS-TRA		172	172		290	290		290	298
SECS-CIT SOLICITOR GENE	568 RAL	250	818	568		568	568		568
SGEN SGEN-ADM		225 225	225 225	differ from some	1,119	1,119	appa anas were anal	619 619	619 619
SUPPLY AND SER		640	1.00	27	17 1 40		25		25
SS-SUPP	1		1	27 27	and the print	27 27	25		- 25
STCAN TRANSPORT		9	9	approximate analy	and and star	3	100 mile 100		e
TPT	11	1000 PUL 100	11	25		25 25			8
TPT-SUR TREASURY BOARD	11		11	25	www. Olda Manh	20	"The same new		Ľ
TOTAL	3,050	4,028	7,078	4, 105	3,917	8,022	4,691	3,717	8,408
 w. art. di U. Edud spp. art. ppp. mit. and mit. and mit. and the last set and mit. 		and the second s						the raw and the test dis test and the side	

FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT BY PERFORMER, 1980-1983

(\$ THOUSANDS)

	1980-	01	1981-	00	1982-83		
PERFORMER	1500-		1901-		1982-		
	\$		\$		\$		
INTRAMURAL	39,836	(41.9)	47,217	(43.1)	55,347	(42, 4)	
INDUSTRY	3,250	(3.4)	4, 585	(4.2)	5,003	(3.8)	
UNIVERSITIES	30,507	(32.1)	34, 636	(31.6)	42,413	(32.5)	
NON-PROFIT INSTITUTIONS	5,988	(6.3)	6,084	(5,6)	6, 163	(4.7)	
PROVINCIAL & MUNICIPAL	2,131	(2.2)	2,465	(2.3)	4,315	(3.3)	
FOREIGN	10,310	(10.8)	10, 381	(9.5)	12,483	(9.6)	
OTHER CANADIAN	3,050	(3.2)	4, 105	(3.7)	4,691	(3,6)	
99 							
TOTAL	95,072	(100.0)	109,473	(100.0)	130, 415	(100.0)	

BY PERFORMER, 1980-1983

(\$ THOUSANDS)

PERFORMER	1980-		1981-		1982-	33
	\$	%	\$		\$	%
INTRAMURAL	303,670	(87.1)	418,327	(89.1)	392,547	(87.5)
INDUSTRY	10,215	(2.9)	11,962	(2,5)	13,882	(3.1)
UNIVERSITIES	15,476	(-4,4)	17,706	(3.8)	19,322	(4.3)
NON-PROFIT INSTITUTIONS	4,803	(1.4)	5,814	(1.2)	6,135	(1.4)
PROMINCIAL & MUNICIPAL	5, 291	(1.5)	5,892	(1.3)	6,026	(1,3)
FOREIGN	5,092	(1.5)	6,131	(1.3)	6,895	(1.5)
OTHER CANADIAN	4,028	(1.2)	3,917	(0.8)	3,717	(0.8)
alah alah 100 gay 400 100 100 100 100 100 ter san ana ver dali 400 gay alah alah mak ada man dala dar	400 400 mil 400 400 and any					
TOTAL	348,575	(100.0)	469,749	(100.0)	448,524	(100.0)
with sales 400 Mills und 170 Nor 400 will also side our ann and with olse with siles and any our our and						

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEDODTMENT		1980-81			1981-82	a and may and any pay over our two and and un	a appropriate and area over area when up a range with	1982-83	- THE AND AND AND AND AND AND AND
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXT'80- Fural	TOTAL
AGRICULTURE	* ma				a dana kadin katin kadin dalam manja dara dalam kati				17.73
AGR-ADM	50	aver aver delat	50	50		50	50		59
AGR-DEV	50		50	50		50	50	use and a fil	59
AGR-RI AGR-CGC	A-100 A-100 A-100						-84 646 666		unal i de bille
CDC CLFB	51	20	71	61	10	71	77	49	117
COMMUNICATIONS COMM		193	193	ave are set	714	714		560	568
COMM-COMM COMM-AC	Lange daraw daraw	193	1.93		714	714		560	563
CBC CRTC	534	68	602	519	160	679	569	250	919
NFB NLIB		stight should form	and a real series	and over ever			ANNE 2.000 1.000		AVE 1400 AVE
NMUS	1,640	169	1,809	3,410	176	3,586	4,893	285	5,998
PA SSHRC	2,054	23,514	25,568	2,269	25,605	27,874	2,998	32,728	35,726
CONSUMER AND C	ORPORATE 2.020	AFFAIRS 642	2,662	2,601	1,022	3,623	3,543	1,894	4,637
CCA-ADM			Ann. 1460 1460	2,045	987	3,032	2,761	1,094	3,955
CCA-CON CCA-COR	852 705	559 83	1,411 788				ann ann und		
CCA-CICP ECONOMIC DEVEL	463		463	556	35	591	782		792
ED		Area 2/10 - 100		17.0 × 100	Area 4200 seats		1010 A.101 A.102		
EMPLOYMENT & 1	IMMIGRATIO	N 63	1,528	1,428	49	1,477	1,518	58	1,568
EI-ADM CEIC	1,465	63	1,528	1,428	49	1,477	1,518	50	1,508
ENERGY MINES &	RESOURCE	S							
EMR-ENER	45	1,593	1,638	45	1,820	1,865	51	2,760	2,811
EMR-MES	45	1,593	1,638	45	1,820	1,865	51	2,760	2,311
AECB	4007 Galo Sala	and the even	1000 0000 0000		100 100 100	any and are		100 100 100	
NEB ENVI RONMENT		1480 1490 1480	gas are as	-	Aver also visit			area area sheb	
ENV	640	200	840	679	235	914	815	268	1,093
ENV-ADM ENV-ES	640	83	723	679	106	785	815	123	938
ENV-EPS ENV-AES									
ENV-ECS	640	83	723	679	106	785	815	123	938
ENV-FOR ENV-PC		117	 I 17		129	129		145	145
EXTERNAL AFFA	IRS	with and the						and stop one	
EA-CIA					6000 millio milio				
CIDA IDRC	4,224	1,225	1,449	266 4, 965	1,340	1,606	6,126	1,500	1,784
IJC FINANCE					area fore with				
FIN		time our time							and 1000 1110
FIN-FEP FISHERIES AND	OCEANS				And the second		Manho and and		
F&O	825	1000 AND 1000	825	854		854	946		946
F&Ø-FM INDIAN AFFAIRS	825 5 & NORTHE	RN DEVELOP	825 MENT	854		854	946	along some oppi	946
IAND	630	547	1,177	700	461	1,161	571	777	1,349
IAND-IIA IAND-NA	630	547	1, 177	698	461	1,159	13	777	1,335
INDUSTRY TRADI	E AND COMM 138	IERCE 851	989	151	2,171	2,322	155	2,171	2,326
ITC-TI	47	695	742	51	2,000	2,051	55	2,000	2,955
ITC-TOUR	91	156	247	100	171	271	100	171	271

FEDERAL INTROMURAL AND EXTROMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

(4 THOUSANDS)

		1900-91	tent and the data and the part of the set	ere via and 1000 1000 Adv out (3 - and 10) 1000 -	1981-82			1982-05	
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTEA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRO- MURAL	TOTAL
JUSTICE JUST JUST-ADM JUST-CUIO	677 677	1,273 1,273	1,950 1,950	1,813 1,013	2,809 2,809	3, 822 3, 822	1,825 1,825	3,927 3,927 	4,852 4,052
CHRC	246	667	913	387	1,089	1,467	511	1,239	1,759
LAB LAB	411	192	603	452	210	662	589	276	745
HOTIONAL DEFEN HDEF HDEF-GER	713 713		713 713	707 797	and and old	797 797	898 898	and the sec	598 898
NATIONAL HEALT NHW NHW-AVM NHW-HSS	2,147 1,527 520	5,849 150 5,630	7,987 1,677 6,310	2,633 1,996 637	6,113 165 5,948	8,746 2,161 6,535	2,998 2,337 661	6,271 185 6,036	9,269 2,522 6,747
NEW-MS NEW-HP NEW-IS	well and area	man and the			Angle area first	500 400 500 500 50 50 500 50 50	900 mm 100		which forms around
MRC NATIONAL REVEN NREV NREV-TAX PRIVY COUNCIL	IUE 927 327	1000 100 100	827 827	928 838	And find for	828 328	796 796		796 796
PC COL		549	549		589	589		89 495	
ECC PUBLIC WORKS PN	6,486	533	7,019	5,950	498	6,440	6,319		+0.4 4000 -000
PM-PTS CMHC NCC	1,620	1,138 10	2,758	1.650	1,650 16	3,300	1,780	1,675	3,455 10
REGIONAL ECONO REE SCIENCE AND TE	820	ISTON 52	872	1,011	60	1,071	1,198	62	1,258
ST NRC		area well which	alada alada Austra alada yanga kana	1000 para ma	And \$4.00 1999	and a such thighy			were were non-
NRC-SIR NRC-STI	1000 0.00 1000		2017 1918 (1918)	and a block with	mane sure black	9000 9000	1000 000 000	and and and	
NSERC SC	1,112		1,498	1,307	695	1,912	1.511	 690	2,201
SECRETARY OF S SHOS SECS-OL	5TATE 2,378	3,467 480	5,845 480	2,950	3,842 509	5,992 589	2,608	3,807 724	6,415 724
SECS-ES SECS-TRA SECS-CIT PSC	2,378	490 2,497	2,868 2,497	2,950	250 2,283	3,200 2,283	2,608	500 2,583	3,108 2,583
SOLICITOR GEN SGEN SGEN-ADM RCMP	775 775	1,640 1,640	2,415 2,415	938 938	2,075	3,013 3,013	938 938	2,875 2,075	3,013 3,013
SUPPLY AND SEI SS SS-SUPP STCAN TRANSPORT	RVICES 1 5,828	210 210	211 211 5,828	1 1 8,108	197 197 	198 198 8,108	1 1 9,324	195 195	196 196 9,324
TPT TPT-ADM TPT-MAR	93 3	25 14	118 17	102 7	46 21	148 28	173 8	22 22	195 30
TPT-AIR TPT-SUR CTC TDEOSUBY DOOBL	90 1,139	11 300	101 1,439	95 1,092	25 37Ø	120 1,462	165 1,362	370	165 1.732
TREASURY BOARI TB TB-ADM		113 113	113 113		113	113 113	1000 1000 1000	128 128	128 128
TOTAL	39,836	55,236	95,072	47,217	62,256	109,473	55,347	75,068	130,415

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT

10 CANADIAN INDUSTRY

BY DEPORTMENT OR AGENCY, 1980-1983

(% THOUSANDS)

DEPARTMENT	19	00-81		01-82	19	02-85
AGENCY	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
AGRICULTURE			a and \$100 per 117 can see one are one	a first speet first many i will write mine three first many week and		and and and one is the first and one out fails
AGR						
DIGR-ADM			AND 1075 7 M			
HGR-DEV	And \$254.042			ALC: 101		
IPGR-RI		anyon shake white		and due tot		
HGR-CGC						And that are
CDC CLFB						
CORUNICATION				any and had		58
COMM	193	trug and the	714		560	
COMM-COMM	193		714		560	
LOMM-AC	ARE					
6 9C	Anna 4151 1700					
CRTC	ram when they		where where where			50
HTB						
HLIB						
PA						
SSHRC						
CONSUMER AND	CORPORA	TE AFFAIRS				
CCN .		122		209		233
CCA-ADM				209		233
CCA-CON		99		trug one what		
CCA-COR CCA-CICP		23				
ECONOMIC DEVI						
ED ED		AND 700 AND				
EPIPLOYMENT &	IMMIGRA	TION				
E [7		49		50
EI-ADM		7		49		50
CEIC						AND 1989 (1880
EHERGY MINES	& RESOL	IKUES	where there with			
EMR-ENER						
EMR-MES						AND
RECB		AND. 7993 AMD		and over data		
RECL				anna 1999 (1999)		
HEB					-	
ENVIRONMENT		70		E 4		C 2
ENV ENV-ADM			nem true and	54		62
ENV-ES		11		23		27
E-42-EPS						
EHP-AES		and whe ends				
ENV-ECS	over their mall	11	wind your drive	23		27
ENV-FOR	10100 10100 F100					
EHV-PC	OIDC	28	www.www.anda	31	-	35
EXTERNAL AFFI	MIKS					
EA-CIA						
CIDA						
IDRC						
IJC				which mean mean	ere ires as-	
FINANCE						
FIN			date and and			
FIN-FEP	D OCEONS		res dat uno	Part Part and	wear wear ddy'r	648 680 AU
FISHERIES AND FRO	DUCEMINE					
F&Ø-FM						
INDIAN AFFAI	RS & NOP	THERN DEVELO	DPMENT			
IAND	184	10		52		418
IAND-IIA				440 640 with		
IAND-NA	184	10		52	4.10 and 1998	418
INDUSTRY TRA	DE HND (171		1.2.4
ITC-TI		156		171	AND 422 000	171
ITC-TOUR		156		171		171
116-50						

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN INDUSTRY BY DEPARTMENT OR AGENCY, 1980-1983

(\$ THOUSANDS)

DEPARTMENT	19		19	81-82	19	82-93
OR AGENCY		CONTRACTS		CONTRACTS	GRANTS	CONTRACTS
JUSTICE	true proc and the limit time and an		and the set of the set of the set	and the first set of a set of		and a second term of a to be filled as a second
JUST	the data was		2400 V-0 = +			
JUST-ADM		when more some				
JUST-CUIO		size was used		MAR NEW ACCU		
CHRC	APR 200 APR		9-99 9-00	And West and	and with out	10-10 AUX -0-10
LRC LABOUR		di t dina may	AND AND ADD		A.S	and the second
LAB NATIONAL DEF	35 ENCE	10	38	1 1	43	12
NDEF			pers speck fields	ATT: 1911 1-11		term man term
NDEF-SER		and all story		danta danta regan		the date and
NATIONAL HEA						
NHW NULL OBM	48	51	75		75	15
NHW~A⊅M NHU-HSS	48	51	75		75	15
NHW-MS		10	C 1		C 1	L. J.
NHW-HP		-				
NHW-IS			AND 1990 AAD			And the second
MRC				AND 9900 AND	haloh erena taran	APRIL 64440 1710
NATIONAL REV						
NREV NREV-TAX	Ann Ann 1999		AND AND AND			- 49400 - 40200 - 40200
PRIVY COUNCI						
PC			410 MM 444		1000 ADD ADD	
COL	And the second	state dama wave	1000 Add 444	the own and		And the second
ECC	The first serve	296	and party and party	300	1111 APR	300
PUBLIC WORKS		that only ama		WHE MADE NOW		AND THE MAY
PW-PTS						
CMHC	48	967	75	L, 415	75	L 445
NCC	one cale area				ALC: NOT 1973	
REGIONAL ECO				0.0		0.0
REE SCIENCE AND	TECHNOLO	52	data Miliy and	68	Arr. 000 000	60
ST		1 E.Y.	the sea and	AND 1000 4140		And approximate
NRC		ARE ALSO \$110				AD-10 1990 - 1993.
NRC-SIR					www	
NRC-STI		Allen Antel Ville		AND ADD INC.	And	
NSERC		150				
SC SECRETARY OF		152		247	ALC: 1918 1919	282
SECS					No. 1700 ALC	with start start
SECS-OL					and 100 144	
SECS-ES		their seas and	1000 Arts 1000	with seen and	4100 Million Andre	the second second second
SECS-TRA		4000 MIN. 1005	dans were many	WHEN WHEN ALLEY	ana 470	WHEN ADDR. TOTAL
SECS-CIT	and the first	ALC: OUR MED		will not man		
SOLICITOR GE	NEDOI		100 C		\$2.03 Acres with	
SGEN	ULLENC	635	and dot upp	833	ano, 100 mig-	850
SGEN-ADM	1.1.1. 1999	635	ana 19-1	833		850
RCMP	445					
SUPPLY AND S		05		0.0		~~~
SS CC. CUPP		95 95		82		82
SS-SUPP STCAN	AND 10-1 101	55		82		82
TRANSPORT						
TPT		were now appa		AND 1000 1000		
TPT-ADM		444 MA 1993	10.00 Miles 1000	THE OWN ALL		while while more
TPT-MAR		Allen 2017, 4715,		hild over the		held non-one
TPT-AIR TPT-SUR						
CTC		150	Ann. 1990 1990	200		200
TREASURY BOA	RD	100		200		200
TB						-
TB-ADM				aller Here were	1000 Miles Add	
TOTAL	508	2,742	902	3,683	753	4,250
		has F I "The			CC 1	

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TABLE 55

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1988-1983

(\$ THOUSANDS)

DEPARTMENT	19	80-81	19	81-92	19	82-83
OR AGENCY	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
AGRICULTURE	10 an in a a min i mi				And all and the set of the set of the	
AGR			our des dell		0.00 ptrij 0.00	AND 1007 11-1
AGR-ADM			Pauli milit minit	August 1970	1.10 × 1.1790	
AGR-DEM			and an and a state of the state	A set area well		an ann an sail
AGR~RI AGR-CGC		and the second			and the second second	Well which each
CDC			www.with			10-1
CLFB		3			· · · · · · · · · · · · · · · · · · ·	The second second
COMMUNICATION	15					
COMM	40-0 Mgp 20-0	the over the	1000 MAR 2000	and app date	and the second	April March 14 M
COMM-COMM COMM-AC	after solid veloc		1.00° 0.00 000	and are take	100 L 10 L 100	
CBC						
CRTC	34		75	Bas	100	25
NF 8		man man over	Auto 1000, 1010	where with a finally		
NLIB		man man ang		Andread Andread Appropri-	an a star wash	dans word with
NMUS	draw with 1000	man over web		AND NOT THE	1.00 mm	and and other
PA	18,235	and the second	19,700	and the second second	26,085	
SSHRC CONSUMER AND			15,700		20,000	
CCASCINGAL BILLS		85		258		291
CCA-ADM		man	man with wells	258		291
CCA-CON	man we want	31		dealed waves - and		
CCA-COR		54	as as weath solid	hand hand West	the set of	and 100 100
CCA-CICP		4897 F-10 844	and any other	which much \$20%		
ECONOMIC DEV:	ELUPRENI		man make make		was over the	and 6-4 1997
EMPLOYMENT &	IMMIGRE	TION				
EI						
E I-ADM		and an arrange databat	avec which have			max max with
CEIC			man man entry	war with with		
ENERGY MINES EMR		IRUES	125		125	and an - rest
EMR-ENER	125			mpp and date		
EMR-MES	125	1044 -100 map	125		125	
AECB		and weat that		man wint to B		211 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AECL		and then with		anny constability		and fact time
NEB		max max yes		many reserve dealer	Are the set	
ENVIRONMENT ENV	28	35	15	45	15	55
ENV-ADM	<u> </u>					
ENV-ES	28	35	15	45	15	55
ENV-EPS	serve succeivers	man mon com	Bas 200 170			and the second
ENV-AES		1044 VIII			4.55	
ENV-ECS ENV-FOR	28	35	15	45	15	55
ENV-PC					war with the	
EXTERNAL AFF	AIRS					
EA		www.mon.hold		And 1000 1000		
EA-CIA					607 070 has	4880 -02-0 -risk
CIDA		wave much man	440		014	
IDRC	323	AND DAA UVV	449		914	
IJC FINANCE						
FIN						4740 (1910 Mat
FIN-FEP		date TBM BAD				
FISHERIES AN	D OCEANS	6				
F&0				may very such	max and 9800	
F&O-FM	DC & NOT	TUTON DEVEL	DAMENIT	and over all a	and all has	time and time
INDIAN AFFAI		RTHERN DEVELO	JEFTEN I 277	5	309	
IAND IAND-IIA	100	1 C	⊆ f f			
IAND-NA	100	17	277	5	309	
INDUSTRY TRA		OMMERCE				
I TC	695	And 1940 1940	2,000	made many many	2,000	
ITC-TI	695	1000 Aller - 100	2,000	87.0 FPG 51.0	2,000	mod ana
ITC-TOUR		and and and			N. N. 1999 - 1989	
ITC-GO	ten our out				an an reason	

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1908-1983

(# THOUSANDS)

DEPARTMENT	19		19	81-82	19	
OR AGENCY		CONTRACTS		CONTRACTS	GRANTS	
JUSTICE	and it are not of all the			a name a la a na a an ann an a nam ann mean ann ann ann	a approximation of the state of the state of the	
JUST	611	- mater + may many	708	1.000 100.00 100.00	420	
JUST-ADM JUST-CUIO	G11	and the win	780	way with the	420	water starts water
CHRC	1000 - 100 - 100	were the const		10.00 1 000 0000	and a second second	And and and
LRC				7		8
LABOUR						~~~
LAB HATIONAL DEF	TRACE	65	82	71	92	80
HDEF		And \$200 \$100			and some owner	-
NDEF-SER	* 400. Mar 1997	2 Mar. 1999		same same sque		100-01
NATIONAL HEA			E 440	17 d	E 500	1.0.0
нын мыл-арм	4, 997 150	34	5,448 165	34	5,582 185	106
NHIN-HSS	4,347	34	5,283	34	5,317	186
NHU-MS-	1000 STOL 1 ST	and red a	1 Mg which it was	Annual Annual Annual		and see along
HEIM-FLP		1000 AUX - 110	8.00 - 101.1 (01.1)		1000 - 1000 - A100	
NHM-IS MRC		man man hills				
NATIONAL REV	'ENUE					
NREV		THEFT DATA data	most most room	state data data	data tata atau	
NREV-TAX				14.00 PT0 PT0P	pass and pass	
PRIVY COUNCI PC	549	and the last	589	with size AAAA	89	TABLE BALL SHOP
COL		10.00 i 1000 intern				-
ECC		207	-	165	-	180
PUBLIC WORKS)		Marine Advent - Alle	and and 1-00-	dated dates 1000	
PM PM-PTS						
CPIEIC	10	54	15	68	20	50
NCC		And	1000 1000 Aug	MANY TANK ALL	well date on a	
REGIONAL ECC	NOMIC EX	PANSION		1177 Tate 1880		
SCIENCE AND	TECHNOLO	ιGΥ				
ST				1000 FR00 6-10		100 100 100
NRC SIR					Barry 10.00 Married	man more which
NEC-SIR NEC-STI	TANK NAME	A serie manue annue	man men erer	10.00 · 1000 · 1000.	Acres	the over 199
NSERC	Same them them			NAME AND ADDRESS		10.00 March 100.00
50		-18	1.00 (Mar) (Mar)	84		94
SECRETARY OF SECS	5TATE 2,409	498	2,224	250	2,739	500
SECS-OL	480	430	589	in an an	724	
SECS-ES		state take were	1879	1888 THEFT LANS	1000.0000 1100	
SECS-TRA	1.020	490	1 715	250		500
BECS-CIT PSC	1,929		1,715	1000 and (100	2,015	grap were read
SOLICITOR GE	ENERAL					
SGEN	348	565	375 375	729	375	712
SGEN-ADM RCNP	340	565	676	729	375	712
SUPPLY AND S						
SS		114		88		88
SS-SUPP STCAN		114	10.00 Pros. 2000	88		88
TRANSPORT				unte utile a-o		
TPT		14	-	21		22
TP T-ADM		14	Man and Man	21	And 2.00	22
TPT-MAR TPT-AIR		1007 000 000				
TPT-SUR						
CTC		125	and the state	145		145
TREASURY BOA						
TB TB-ADM	113 113		113 113		128 128	man gard over
TOTAL	28,644	1,856	32,187	1,962	38,913	2,356

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FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

NEDADTHELIT		1980-81			1981-82			1982-83	
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE									
AGR AGR-ADM	1,200		1,200	1,650	38	1,688	1,675	63	1,738
AGR-DEV	1,200		1,200	1,650	38	1,688	1,675	63	1,738
AGR-RI AGR-CGC							and and and		
CDC							rur side cun		
CLFB	18		18	21		21	23	5	28
COMM1	4, 152	1,063	5,215	4,221	1,209	5,430	4,326	1,225	5,551
COMM-COMM	3,767	791	4, 558	3,672	775	4, 447	3,876	860	4,736
COMM-AC CBC	385	272 1,898	657 3,636	549 1,867	434 2,175	983	450	365 2,484	815
CRTC	1,(30	1,898	3,030	1,867	2,113	4,042	2,123	2,484	4,607
NFB					uner that some				
NLIB	17,225	20 5,831	17,245	21,536 28,149	73 5,908	21,609 34,057	25,796 28,337	46 6,051	25,842
PA	10,817		10,817	11,960		11,960	13,689		13,689
SSHRC OND	1,948	14,862	16,810	2,182	16,545	18,727	2,330	18,620	20,950
CONSUMER AND CCA	S6	161	217	58	465	523	177	630	807
CCA-ADM									wate shifts been
CCA-CON CCA-COR									
CCA-CICP	56	161	217	58	465	523	177	630	807
ECONOMIC DEVE	LOPMENT							100	0.400
ED EMPLOYMENT &	1,527 IMM1680T10	150 N	1,677	1,888	150	2,038	2,343	150	2,493
EI	7,173	828	8,001	7,305	820	8, 125	7,754	858	8,612
EI-ADM	7,173	828	8,001	7,305	820	8,125	7,754	858	8,612
CEIC ENERGY MINES	4,573 R RESOURCE	3, 185 S	7,758	8,436	819	9,255	7,326	800	8,126
EMR	6.174	610	6,784	7,912	680	8,592	8,054	780	8,834
EMR-ENER EMR-MES	1,490	610	2,100 4,684	1,670	680	2,350	1,910	780	2,690
AECB	4,004					07242	0,144		
AECL									
NEB ENVIRONMENT	1,295	12	1,307	1.648	33	1,681	1,689	ware which much	1,689
ENV	14,252	407	14,659	15,653	433	16,086	17,820	516	18,336
ENV-ADM	261		261 3,469	308	362	308 3,757	438	438	438
ENV-ES ENV-EPS	3, 127	342	3,469	3,393		3,131	4,095		
ENV-AES									
ENV-ECS ENV-FOR	3, 127	342	3,469	3,395	362	3,757	4,095	438	4,533
EHV-PC	10,864	65	10,929	11,950	71	12,021	13,287	78	13,365
EXTERNAL AFFA		1 012	E 0.20	4 000	1 700	C (50	5 202	1,938	7,220
EA-CIA	4,317	1,612	5,929 5,929	4,888 4,888	1,762	6,650 6,650	5,282 5,282	1,938	7,220
CIDA	1,414	1,394	2,808	1,497	1,533	3,030	I,809	1,687	3,496
I DRC IJC	4,514	1,171	5,685	5,256	1,551	6,807	6,414	1,914	8,328
FINANCE									
FIN	8,514		8,514	10,077		10,077	12,613		12,613
FIN-FEP FISHERIES AND	8,514		8,514	10,077		10,077	12,613		12,613
F&O	2,375	300	2,675	2,276	300	2,576	2,524	322	2,846
F&Ø-FM	2,375	300	2,675	2,276	300	2,576	2,524	322	2,846
INDIAN AFFAIR	5 & NORTHE 689	RN DEVELOP	TEN 1 760	983	910	1,893	1,032	845	1,877
IAND-IIA				78	300	378	82	300	382
IAND-NA INDUSTRY TRAD	689 E OND COMM	FPCF 71	760	905	610	1,515	950	545	1,495
ITC	5 HND CON	475	573	108	505	613	108	305	413
ITC-TI	And 480 491	475	475		505	505		305	305
ITC-TOUR ITC-GO	98		98	108		108	108		108
10-00									

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

JUSTICE JUST 1,820 51I 2,331 2,438 552 2,990 2,486 776 3	TAL
JUST 1,820 51I 2,331 2,438 552 2,990 2,486 776 3	
JUST-CUIO 1,552 1,552 2,100 2,100 2,100 2 CHRC 304 304 288 288 325 LRC 296 257 553 302 580 882 359 829 1	,262 ,162 ,100 325 ,108
	, 979
	, 677 , 677
NHW 3,753 3,325 7,078 5,140 4,799 9,939 6,008 5,450 11 NHW-ADM 2,727 1,570 4,297 3,830 2,070 5,900 4,407 2,070 6 NHW-ASS 495 1,755 2,250 698 2,729 3,427 684 3,380 4 NHW-MS <td>, 458 , 477 , 064 </td>	, 458 , 477 , 064
NREV-TAX 3,659 3,659 9,890 9,890 6,190 6 PRIVY COUNCIL	, 190 , 190
COL 975 975 1,172 1,172 3,097 3	, 097 , 000
PW	,216
REGIONAL ECONOMIC EXPANSION	, 439
SCIENCE AND TECHNOLOGY ST 6,472 532 7,004 7,549 486 8,035 8,382 535 8	,917
NRC-SIR	
TO LA TO	, 846
SECS 2,364 864 3,228 2,774 1,251 4,025 2,845 1,681 4 SECS-OL 71 302 373 91 216 307 91 216 SECS-ES 139 139 415 415 465 430 SECS-TRA 2,081 172 2,253 2,191 290 2,481 1,937 290 2 SECS-CIT 73 390 463 77 745 822 352 745 1	, 526 307 895 , 227 , 097
SOLICITOR GENERAL SGEN 750 I.010 I.760 872 1.784 2.656 872 1.284 2 SGEN-ADM 750 1.010 I.760 872 1.784 2.656 872 1.284 2	, 156 , 156
SUPPLY AND SERVICES SS 3 348 351 3 355 358 3 355 SS 3 348 351 3 355 358 3 355 SS SS 3 348 351 3 355 358 3 355	358 358 ,895
TPT 390 526 916 564 588 1,152 967 507 1 TPT-ADM 390 526 916 564 588 1,152 967 507 1 TPT-MAR	, 474 , 474
TPT-SUR	, 523
TREASURY BOARD TB 10,553 10,553 12,814 12,814 15,316 15	,316
	, 524

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1980-81 (FULL-TIME EQUIVALENT PERSON-YEARS)

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROF <mark>ES</mark> SIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AGRICULTURE	an one are and any any and and and and and		and and and and due to a new out of all all	a page and links with and 1 - A start link links into a page too				
AGR	Aug. 100 1071	25		2		and are dee		27
AGR-ADM		 	648			ore 510 400		27
AGR-DEV AGR-RI		25		2			are are and	<u> </u>
AGR-CGC		and only may			1.00 000 000		make a set frame	
CDC CLFB	0		400 ABB		1	and the		2
COMMUNICATIONS		70	77	3	20			111
COMM COMM-COMM	8	39 32	33 32	3	28 26			101
COMM-AC		7	1	2000 2000 -200	2		100 400 100	10
CBC	4	19	1	31	2	and here well		57
CRTC NFB	ages along the second	2	5		6	approximation make		L (
NLIB	2	192	38	46	220	2		500
NMUS	5	73	137	138	116	160	and when delin	679 266
PA	4	113	3 50	68	82 49	and and and	and approx 2000	105
SSHRC CONSUMER AND C		FAIRS	00		40			
CCA	2	. 28	6	4	14	and more com-		54
CCA-ADM		an			4		-	22
CCA-CON CCA-COR	1	14	2	2	4		and and and	18
CCA-CICP	1	9			ă.			14
ECONOMIC DEVEL		9	5	an an +++	7			33
ED EMPLOYMENT & I	12 MMIGRATION	5	J					00
EI	6	80	8	26	61	Aug. 2010 2017		181
E'I-ADM	6	80	8	26	61	will propose		181
CEIC ENERGY MINES &	PECOUDCES	86	9	11	58	and over each		104
EMR	KESUURCES	100	6	15	39	1		166
EMR-ENER	2	35					and the second	36
EMR-MES	4	65	6	15	39	1		130
AECB AECL	and and all	and also also	400			pang some while		and seed seed
NEB	1	24		5	9		which plates many	39
ENVIRONMENT					40	7		243
ENV-ADM	I	95	14	82	48	3		6
ENV-ES	1	39	7	8	12	1		68
ENV-EPS		100 Mar 100	these settle years	. and adde with			and were with	
ENV-AES		39	7	8	12		were over able	68
ENV-ECS ENV-FOR	1				10			
ENV-PC		54	7	74	32	2	MARKS MININ ANALY	169
EXTERNAL AFFAI		7	6.4		28			99
EA-CIA	and and all	7 7	64 64	and 100 /00	28	ann		99
CIDA	1	8	19	3	10	NVI 007 100		41
IDRC	5	39	8	46	55	ana ana -119	ARX 4844 1975	153
I J C F I NANCE		alli dali uve	-			area abity abity	and and such	
FIN	9	118	19	24	38	day pay was		208
FIN-FEP	9	118	19	24	38	ana dati 610		208
FISHERIES AND		40	1 77		70			100
F&O F&Ø~FM		46 46	13	11 11	30 30		and see out	100
INDIAN AFFAIRS								
IAND	1	16	5	3	5	3	1000 0400 0705	33
IAND-IIA	444	10	5	3	5	3		
IAND-NA INDUSTRY TRADE	AND COMME	16 RCE	2	3	0	3		55
ITC	HILD COLLES	1	3	1000 0.000 AND	Ø	1		5
ITC-TI		1			0			1
ITC-TOUR		4000 4000 A000	3		and are are	1		4
ITC-GO			and and one	And the past	and this day			

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1980-81

(FULL-TIME EQUIVALENT PERSON-YEARS)

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	тота
	TUTCOTINE	THOILDDIONEL				CALLER AND A REAL AND		
JUSTICE	4	9	0	1	15	Page 2000 0000		38
JUST JUST-ADM	4 3	3	9 3	1	10			26
JUST-CUIO	1		Ğ	de ange weer one	- 5	new man mid-		12
CHRC	also the sea	2	2		1	www.www.walk	1000 OF 1000	5
LRC	1		-4		31		NAME AND ALL	36
LABOUR	-	0.4	20	20	7.0			110
LAB	3	24	30	20	36	oppose Addate Station		112
ATIONAL DEFEN NDEF	ICE	18	5	over over with	13	0	32	68
NDEF-SER		18	5		13	Ø	32	68
ATIONAL HEALT	TH AND WELFA	IRE						
нны	6	70	15	31	38	anges, spense waves		159
NHW-ADM	4	50	5	27	22	were were allel	and same year	108
NHW-HSS	2	14	5		13		and says with	34
NHW-MS NHW-HP		data sura una					and data web	
NHW-IS	0	6	5	4	3	www www slink	area such dollar	17
MRC							And And 1999	A 1
ATIONAL REVEN	UE							
NREV	2	31	66	4	89	add 000 000		192
NREV-TAX	- 2	31	66	4	89			192
PRIVY COUNCIL								
PC		THE MADE AND				WWW date with		
COL	1 3	66	25 20	11	- 4 57			157
PUBLIC WORKS	3	00	20	1 1	10			101
PW PW		dans ware with			444 - 1977 - Arrill	2140 4900 4900	Acres Acres 1999	
PW-PTS	and your web	while down shally			were many were	were mine were	Ann. 1995. 1999	
CMHC	8	60	2	34	21			125
NCC	100 000 eres	- 4	1		www.man. www.		mana mana mana	5
REGIONAL ECONO			_	-	-			
REE	2	9	3	3	8	which double double	man man man	24
SCIENCE AND TE		1.1	71	5	50	2		161
ST NRC	_22	11	r 1					101
NRC-SIR								
NRC-STI			with setting over			war and sold		ma 400 mo
NSERC			and that with	man data very	ALC: 100		-	
SC	3	17	18	5	21		and may one	64
SECRETARY OF S	STATE	-	1	-				100
SECS		3	134	2	53			192
SECS-OL		1	2		Anna 2000			4
SECS-ES SECS-TRA		<u> </u>	131	and man test	53			184
SECS-CIT			1	2				3
PSC		1000 0000 0000	la selle som som	teatr orange orange	-			
SOLICITOR GENE	ERAL							
SGEN		26	2		IØ	1	www man man	39
SGEN-ADM	www.acam.andi	26	2		10	1	man your your	39
RCMP							And they want	that was used
SUPPLY AND SEA	VICES	_					um hint	Ø
SS SS-SUPP		10000 10000	NUME ALLA VENE	ware were seen	March Verse Arrest	was and all		0
STCAN	29	739	769	720	2,303	59		4,619
TRANSPORT	ten ter			1 100				
TPT	1100 1000 -000	7		Andy make some	ALC: 100 100		www.www.salit	7
TPT-ADM		5	444	And and WWW		www. 4048.4040	mm span were	5
TPT-MAR					me on on	www weer sizes	wave were worse	
TPT-AIR	were were were	were were were	And And open			wave under The		
TPT-SUR		2	4		1			2
CTC	2	41	I.	9	15	your solid with	were vous mann	68
TREASURY BOARI TB	21	1.1	137	2	48		mini when strip	219
TB-ADM	21	1 1	137	2	48	and the tim		219
	han A	۵۰ ۵۵ ماله ماله ماله ماله ماله ماله ماله ماله	a 1	han		per any sup per per per sus vou sus en an bird on bir	I find had had one way you way this had she take an	
TOTAL	173	2,271	1,758	1,418	3,718	232	32	9,602

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1981-82 (FULL-TIME EQUIVALENT PERSON-YEARS)

DEPARTMENT OR AGENCY EXE	CUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AGRICULTURE								
AGR		28	unter unter Mitte	2				30
AGR-ADM AGR-DEM		28	alute anno anno	2			1975 - 1976 - 1978 1975 - 1986 - 1978	30
AGE-RI		shift many data	term many many	daily same area		sale and sha	and and also	
AGR-CGC CDC		water and app			any first succ	0.00 0.00 mill		- 1000 - 1000 - 4044
CLFB	0	1		with west what	1			2
COMMUNICATIONS	8	39	33	3	28	And any stat		I 1 1
COMM-COMM	8	32	32	3	26	ara		101
COMM-AC		?	I		2			10
CBC CRTC	4	19	1	30	2			56 16
NFB		100 mm - 100						
NLIB	2	199 74	41 130	39 177	234 126	142		517 655
PA		117	3	76	81	2		279
SSHRC CORRO	4	2	50	-	49			105
CONSUMER AND CORPO	KHIE HEI 3	FAIRS 25	6	5	16	1074 MILE 1074		55
CCA-ADM	2	16	ĕ	5	12	1000 AND 1771		41
CCA-CON CCA-COR		anna anna anna		shift area one		1075 1075 1075		there while more
CCA-CICP	1	9			4			14
ECONOMIC DEVELOPME								
ED EMPLOYMENT & IMMIG	14 RATION	13	4		8	and over love		39
EI	6	85	8	21	50			170
EI-ADM	6	85	8	21	50	approximate state	1000 AUG 1000	170
CEIC ENERGY MINES & RES		94	8	9	45		and the same	157
EMR	8	108	6	15	39	1		176
EMR-ENER	2	44		15	39			45
EMR-MES AECB	6	64	6					131
AECL								
NEB ENVIRONMENT	1	22	AND ON ON	5	9		our has the	37
ENV	1	95	14	82	48	3		243
ENV-ADM		2			4			6
ENV-ES ENV-EPS	1	39	7	8	12			68
ENV-AES		dadas datab vared		with the seal				
ENV-ECS ENV-FOR	1	39	7	8	12	1		68
ENV-PC		54	7	74	32	2		169
EXTERNAL AFFAIRS		**			20			00
EA EA-CIA		7 7	64		28			99 99
CIDA	1	4	23	3	10			41
IDRC	5	45	6	52	59			166
I J C F I NANCE	and data you	www.same.www	THE REAL LINE		app one and			time time spec
FIN	11	145	21	24	35		read and soft	236
FIN-FEP	11	145	21	24	35	And the set		236
FISHERIES AND OCEA F&O	N5	45	12	11	30			98
F&O-FM		45	12	I 1	30			98
INDIAN AFFAIRS & N IAND	ORTHERN	DEVELOPMENT 22	5	4	5	3		39
IAND-IIA		3						3
IAND-NA	COMMEN	19	5	4	5	3		36
INDUSTRY TRADE AND ITC	COMMER	UE I	3	100.000 dat	Ø	1		5
ITC-TI		1	teres that over		Ø			- 1
ITC-TOUR			3			1	Anne share which	4
ITC-GO				and the state	and mar the			

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1981-82

(FULL-TIME EQUIVALENT PERSON-YEARS)

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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	AGENCY	EXECUTIVE	PROFESSIONAL	SERVICE	TECHNICAL	SUPPORT	OPERATIONAL	MILITARY	TOTAL
JUST-DPM 3 10 2 1 12									
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		7		5				100 100 100	- 41
LAB 3 24 31 20 37 WITCOME DEFENCE 13 0 31 MUEP 13 0 31 MIHA 9 76 15 34 39 MHA 9 75 6 32 23 MHA 9 53 6 32 23 MHA 9 53 6 32 23 MHA 9 6 71 2 432		0	2	0		06			1.4
HATLONAL DEFENCE 18 5 13 9 31 NDEF_SER 18 5 13 9 31 MATLONAL MEALTH AND DELFARE 15 5 14 MAT 0 215 5 14 NAME-HS 2 15 5 NAME-HS 0 0 4 2 2 NAME-HS 0 0 4 2 2 NAME-HS 0 0 4 2 432 NAME-HS 0 0 4 2 432		3	24	31	28	37			116
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$			18	5	AND 110 110	13	0	31	67
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NH-A-BM 2 53 6 32 23 NH-H-SS 2 15 5 14 NH-H-SS 0 6 4 2 2 NH-H-HS 0 6 4 2 2 NH-H-SS 0 6 71 2 432 NH-H-HS 0 6 71 2 432 NRC-ST 1 36 71 2 432 PC 1 31 7 PW PW									
NH-H-BSS 2 15 5 14 NHH-HS		9					mate while allest	NOV 1-12 1017	173
NHAL-HS 0 8 4 2 2									121
NHAP-TOP MRC		2					and third out	and the second	36
NHAL-IS 0 6 4 2 2								200 Log 000	
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WAREVENUE NREV_TAX I 36 71 2 432 PRIVY COUNCIL PC PCL 1 31 7 PCL 1 31 7 PCL 1 PCL 1 PDLIC KORKS 8 57 2 33 21 NCC 8 57 2 33 3 7 NCC 8 57 2 33 3 7 NCC 23 11 67 5 5 5 7 2 NC 51 11 67 5 11 12<									
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TAREM I 36 71 2 432 PRIVY COUNCIL			36	71	2	432			542
PFIDV COUNCIL Image: constraint of the second s	NREV-TAX						and were supp	weak ware weak	542
PC	PRIVY COUNCIL	*							
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PUBLIC MORKS PH PH-PTS	COL	1		31	and the sec	7		And	- 39
PH CMHC 8 57 2 33 21 NCC 1 REE 2 9 3 3 7 SCIENCE AND TECHNOLOGY NRC-STR NRC-STR SCENCE AND TECHNOLOGY NRC-STR NRC-STR SECRETARY OF STATE SECS-OL 1 2 49 SECS-CIT 128 49 SECS-CIT 1 2 SECS-CIT 10 1 SECS-CIT 10 1 SECN 10 1 SEC		3	63	25	17	35	the same runs	where they would	143
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	PUBLIC WORKS								
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NCC 3 1									
REGIONAL ECONOMIC EXPANSION RE 2 8 3 3 7 SCIENCE AND TECHNOLOGY 11 67 5 53 2 ST 23 11 67 5 53 2 NRC-SIR NRC-SIR NRC-SIR NRC-SIR SC 51 16 18 5 21 SECS 3 129 2 49 SECS-DL 1 SECS SECS SECS SECS								and the second	121
REE 2 8 3 3 7 SCIENCE AND TECHNOLOGY 23 11 67 5 53 2 NRC-SIR NRC-SIR NSERC SEC 5 16 18 5 21 SECS 3 129 2 49 SECS-OL 1 SECS-TRA 128				1	dating more right	100 100	Made wants ware	the data men	4
SCTENCE AND TECHNOLOGY ST 23 11 67 5 53 2 NRC NRC-SIR NRC-SIR SECS SECS SECS SECS SECS				7	7	*7			22
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			0	3	5	ſ			Ŀ- ⊆
NRC			1.1	67	5	53	2		161
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							1000 Marca 1000		
NRC-STI NSERC SECS 1 1 SECS-OL 1 SECS-TRA 120 49 SECS-TRA 120 49 SECS-CIT 120 49 SECS-CIT 120 49 SECS-CIT 120 49 SECS-CIT 1 2					·		80.00 0.000 0.000	And. (1998) 7477	
NSERC <td< td=""><td></td><td>And only supp</td><td>tem mo</td><td></td><td>and and such</td><td>400 min</td><td>me um me</td><td></td><td></td></td<>		And only supp	tem mo		and and such	400 min	me um me		
SC 5 16 18 5 21 SECRETARY OF STATE 3 129 2 49 SECS 1 SECS-CL 1 <t< td=""><td></td><td></td><td>and the state</td><td>and with terr</td><td></td><td></td><td></td><td>non non 2000</td><td>100- 100- 100-</td></t<>			and the state	and with terr				non non 2000	100- 100- 100-
SECS 3 129 2 49	SC	5	16	18	5	21	ware terms terms	mar and mar	- 65
SECS-OL 1 12 8 120 120 120 120 120	SECRETARY OF S	TATE							
SECS-ES 2 8 49 SECS-TRA 120 49 SECS-CIT 1 2 SOLICITOR GENERAL SGEN 26 2 10 1 RCMP 26 2 10 1 SUPLY AND SERVICES 0 SS-SUPP 0 5/ STCAN 31 767 832 766 3.011 82 5/ TPT 0 5/ TPT 8 5/ TPT-AIR					2			and one filter	183
SECS-TRA 120 49 <					And some own		man man any		1
SECS-CIT 1 2		and the line	2					and the opt	10
PSC SGEN 26 2 10 1 SGEN 26 2 10 1 RCMP 10 1 SUPPLY AND SERVICES 0 SS-SUPP 0 STCAN 31 767 832 766 3.011 82 TRANSPORT 6 TPT-ADM 6 TPT-ARR 5. TPT-ARR 6 TPT-ARR TPT-ARR TPT-ARR TPT-ARR TPT-SUR TB 25 17 146<		and the	alla valo dan				this may may		169
SOLICITOR GENERAL 26 2 10 1 SGEN 26 2 10 1 SCEN 10 1 SUPPLY AND SERVICES SS 0 STCAN 31 767 832 766 3.011 82 5. TRANSPORT 6 5. TPT-ADM 6 5. TPT-ADM 6 TPT-AIR TPT-AIR TPT-AIR					C				
SGEN 26 2 10 1 SGEN-ADM 26 2 10 1 SCEN-ADM 26 2 10 1 SUPLY AND SERVICES SS-SUPP 0 STCAN 31 767 832 766 3.011 82 TRANSPORT 0 TPT-ADM 6 5. TPT-ADM 6 5. TPT-ADM 6 TPT-AIR TPT-AIR TPT-SUR 2 42 1 11 12 TB-ADM 25 17 146 2 42									
SGEN-ADM 26 2 10 1 RCMP SUPPLY AND SERVICES SS 0 SS-SUPP 0 STCAN 31 767 832 766 3.011 82 5. TRANSPORT 0 5. TPT 6 TPT-ADM 6 TPT-AIR TPT-SUR 2 CTC 2 42 1 11 12 TREASURY BOARD 25 17 146 2 42 TB-ADM 25 17 146 2 42			26	2		10	1		39
RCMP SUPPLY AND SERVICES SS 0 SS-SUPP 0 STCAN 31 767 832 766 3.011 82 5. TRANSPORT 0 5. TPT 8 5. TPT-ADM 6 TPT-MAR 6 TPT-ADM 6 TPT-AIR TPT-SUR CTC 2 42 1 11 12 TB 25 17 146 2 42 TB-ADM 25 17 146 2 42					hile was view		*		39
SUPPLY AND SERVICES 0 SS 0 STCAN 31 767 832 766 3.011 82 5. TRANSPORT 0 5. TPT-ADM 6 5. TPT-ADM 6 TPT-AIR TPT-SUR 2 42 1 11 12 TB 25 17 146 2 42 TB-ADM 25 17 146 2 42				tune and with star					
SS 0 STCAN 31 767 832 766 3.011 82 5. TRANSPORT TPT 8 5. TPT-ADM 6 5. TPT-ADM 6 TPT-ADM 6 TPT-ADM 6 TPT-SUR CTC 2 42 1 11 12 TREASURY BOARD 25 17 146 2 42 TB-ADM 25 17 146 2 42		VICES							
SS-SUPP 0 STCAN 31 767 832 766 3.011 82 5. TRANSPORT TPT 8 11 12 11 12 TPT-ADM 6 11 11 12 11 TPT-AIR 2 1 11 12 11 11 TREASURY BOARD 25 17 146 2 42 11 11						Ø			0
TRANSPORT TTT 8 TPT-ADM 6 TPT-AIR TPT-SUR 2 TPT-SUR 2 42 1 11 12 TREASURY BOARD TB 25 17 146 2 42 TB-ADM 25 17 146 2 42					me our tills	8			0
TRANSPORT TPT 8 TPT-ADM 6 TPT-MAR TPT-AIR TPT-SUR 2 CTC 2 42 1 11 12 TREASURY BOARD TB 25 17 146 2 42 TB-ADM 25 17 146 2 42	STCAN	31	767	832	766	3,011	82	many many weeks	5,489
TPT-ADM 6 <td< td=""><td>FRANSPORT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	FRANSPORT								
TPT-ADM 6 <td< td=""><td>TPT</td><td></td><td></td><td></td><td></td><td>alor was not</td><td>1000 NOV 1000</td><td></td><td>8</td></td<>	TPT					alor was not	1000 NOV 1000		8
TPT-AIR TPT-SUR 2 CTC 2 42 1 11 12 TREASURY BOARD TB 25 17 146 2 42 TB-ADM 25 17 146 2 42	TPT-ADM		6		the state and		more more more		6
TPT-SUR 2 CTC 2 42 1 11 12 TREASURY BOARD TB 25 17 146 2 42 TB-ADM 25 17 146 2 42			PER THE NO.			dista tata		have done with	
CTC 2 42 1 11 12 TREASURY BOARD TB 25 17 146 2 42 TB-ADM 25 17 146 2 42								NAME AND ADDRESS	~ ~ ~ ~
TREASURY BOARD TB 25 17 146 2 42 TB-ADM 25 17 146 2 42					4.4		and a second deside	anna 200	2
TB 25 17 146 2 42 TB-ADM 25 17 146 2 42			42	1	11	12	have also rent	man many file	68
TB-ADM 25 17 146 2 42		2	17	1.40	-	40			232
		20			40				232
		د	1 f	0+1	<u>_</u>	4 <u>C</u>			
TOTAL 194 2,382 1,836 1,463 4,746 239 31 10	TOTAL	194	2,382	1,836	1,463	4,746	239	31	10,892

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1982-83 (FULL-TIME EQUIVALENT PERSON-YEARS)

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AGRICULTURE								
AGR		33		4				37
AGR-ADM AGR-DEV		33	alle and very	4	100 000 LLL	and the star		37
AGR-RI AGR-CGC								
CDC		-		apa apa titi		1010 Ann 1010		
CLFB COMMUNICATIONS	0	1		area door area	I	film who was		2
COMM	8	39	33	3	26			109
COMM-COMM COMM-AC	8	32	32		25	446 499 999	www.ann.uhlf	100
CBC	4	19	ī	30	2	filler more more	where where where	56
CRTC NFB	1000 1000 - 0000		4	5	5		allar even mon	15
NLIB	2	206	52	40	225	1	siller state with	526
NMUS PA	7	73 113	133	173 79	149	132	and also been	667 281
SSHRC	4	2	50	dama anna baadi	49			105
CONSUMER AND C	CORPORATE AN	FFAIRS 28	5	4	16	and had one		56
CCA-ADM	2	19	5	4	12	man veve shift	which some some	42
CCA-CON CCA-COR				and and and	and other way	which which strengt	AND 1000 AND	alan weth mini
CCA-CICP	OPMENT	9		Aug. 454 450	4	support white limit	men vere skill	14
ECONOMIC DEVEL	15	14	5	All a Table William	9		1000 1000 1000	43
E I E I	IMMIGRATION 6	85	8	21	50	where much white	ways faced plants	170
EI-ADM	6	85	8	21	50			-170
CEIC ENERGY MINES 8	RESOURCES	94	8	9	45	ada 600 400	they approximately according to the second	157
EMR	8	112	6	16	39	1		181
EMR-ENER EMR-MES	26	47 65	6	16	39	1		48 133
AECB	alas ville ver	and			were very mile	and and a		
AECL NEB	1	23	AND VER MET	5	9			38
ENVIRONMENT	1	95	14	82	48	3	page and were	243
ENV-ADM		2			4	1010 (Sec	www.mane.valide	6
ENV-ES ENV-EPS	1	39	7	8	12	1	tana vit- etter	
ENV-AES				ada way shift			1999 also also	
ENV-ECS ENV-FOR	1	39	7	8	12	1		68
ENV-PC		54	7	74	32	2		169
EXTERNAL AFFA	IRS	7	66		28	444 447 979		101
EA-CIA		7	66		28			101
CIDA IDRC	1	2 57	25 6	3 51	10	and and and		41 182
IJC					4900 maio			
F INANCE F IN	12	141	21	25	44			243
FIN-FEP	12	141	21	25 25	44	and shift fills		243
FISHERIES AND F&O	OCEANS	45	12	1 1	30	400 400 Mat		98
F&Ø-FM		45	12	11	30		Ann	98
INDIAN AFFAIR	5 & NORTHERI	24	7	4	4	wa 407 607		39 3
IAND-IIA	with the same same	3						3 35
IAND-NA INDUSTRY TRADI		21 RCE		c4				
ITC		1	3		0	1		5
ITC-TI ITC-TOUR		1	3	NUT AND AND		1		4
ITC-GO					wave even with		000 000 000	

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1982-83

(FULL-TIME EQUIVALENT PERSON-YEARS)

AGENCY EXECUTIVE JUSTICE JUST-ADM 4 JUST-CUIO 1 CHRC LRC 3 NATIONAL DEFENCE NDEF-SER NDEF-SER NATIONAL DEFENCE NDEF-SER NHW-ADM 7 NHW-ADM 7 NHW-HSS 2 NHW-HSS 2 NHW-HS NHW-HS 2 NRC NHW-HS 2 NEEV-TAX 2 PRIVY COUNCIL P PW COL 2 ECC 3 PUBLIC WORKS PW NEC-SIR NEC-SIR	PROFESSIONAL			(The second seco	OT THE ATT A ALLOY	NAME AND DATE	TOTAL
JUST 5 JUST-ADM 4 JUST-CUIO 1 CHRC LRC 3 LABOUR 4 LAB 3 NATIONAL DEFENCE 7 NDEF SER NATIONAL HEALTH AND WELFA NHW ADM 7 NHW-ADM 7 NHW-HSS 2 NHW-MS NHW-HS 8 MRC NHW-HS 8 MRC NATIONAL REVENUE 7 NHW-HS 8 MRC NHW-TAX 2 PRIVY COUNCIL 7 PC COL 2 ECC 3 PUBLIC WORKS 7 PW PTS CMHC 8 NCC REGIONAL ECONOMIC EXPANSION REGUNAL ECONOMIC EXPANSION REGUNAL ECONOMIC EXPANSION ST 22 SCIENCE AND TECHNOLOGY ST 22 NRC NRC-SIR NSERC SECS-CIT SIUPLY AND SERVICES SS -SUPP SIUPLY AND SERVICES SS SS-SUPP STCAN 49 TRANSPORT TPT-ADM TPT-AIR TPT-SUR		SERVICE	TECHNICAL	SUPPORT	OPERATIONAL	MILITARY	TOTAI
JUST-ADM 4 JUST-CUIO 1 CHRC LRC 3 LABOUR 3 NATIONAL DEFENCE NDEF NDEF NATIONAL HEALTH AND WELFA: NHW-ADM 7 NHW-ADM 7 NHW-ADM 7 NHW-HS NHW-HS NHW-HS 2 NHW-HS 2 NHW-HS 2 NRC NATIONAL REVENUE NREV 2 NREV 2 NREV 2 PRIVY COUNCIL PC PC CMHC 8 NCC REGIONAL ECONOMIC EXPANSION REE 2 SCIENCE AND TECHNOLOGY ST 22 NRC NRC-SIR NRC-SIR SECS-CI SECS-CI SGEN -	10	0	1	0.7	water when anyo		FF
JUST-CUIO 1 CHRC LRC 3 LABOUR LAB 3 ATIONAL DEFENCE NDEF-SER NDEF-SER NDEF-SER NHU-HS 2 NHW 10 NHW 10 NHW ADM 7 NHW-HS 2 NHW-HS NHW-HS NHW-HS NHW-HS NHW-HS 2 NHW-HS 2 NHW-HS 2 NHW-HS 2 NHW-TS 2 NHW-TS 2 NHW-TAX 2 PRIVY COUNCIL 2 PC COL 2 ECC 3 PUBLIC WORKS PW PW COL 2 ECC 3 PUBLIC WORKS PW PW COL 2 ECC 3 PUBLIC WORKS PW PW COL 2 ECC 3 PUBLIC WORKS PW SC 5 SCIENCE AND TECHNOLOGY ST 22 NRC SECS-CL	18 18	8	1	23 17	and the opp		55 42
LRC 3 .ABOUR		6	A	Ġ	the real side		13
ABOUR LAB 3 HATIONAL DEFENCE NDEF NDEF-SER NIDEF-SER NIDEFALTH AND WELFA NHW-ADM 7 NHW-ADM 7 NHW-HS 2 NHW-HS 2 NHW-HS 2 NHW-HP NHW-HP NHW-HP NHW-HP NHW-HP 2 NREV 2 NREV-TAX 2	2	2		1			5
LAB 3 IATIONAL DEFENCE NDEF-SER IATIONAL HEALTH AND WELFA: NHW-ADM 7 NHW-ADM 7 NHW-ADM 7 NHW-HSS 2 NHW-MS NHW-HS 2 NHW-HS 3 MRC IATIONAL REVENUE NREV-TAX 2 NREV-TAX 2 NREV	1	5	and and and	36	dare your shell		45
NDEFNDEF-SERHATIONAL HEALTH AND WELFA:NHW10NHW-ADM7NHW-MSNHW-MSNHW-MSNHW-MSNHW-MSNHW-MSNHW-MSNHW-MSNHW-MSNHW-MSNHW-MSNHW-MSNHW-MSNHW-MS2NRCVILIC WORKS2PW	27	35	23	42	were some some	1000 Addin Addin	130
NDEF-SER IATIONAL HEALTH AND WELFA: NHW 10 NHW-ADM 7 NHW-ADM 7 NHW-HSS 2 NHW-HSS 2 NHW-HSS NHW-HP NHW-HP NHW-HP NHW-HP NREV 2 NREV-TAX 2 VECC COL 2 ECC 3 UBLIC WORKS PW PW SCE SCE NRC NEC NEC NRC-SIR <td>18</td> <td>5</td> <td></td> <td>13</td> <td>Ø</td> <td>31</td> <td>67</td>	18	5		13	Ø	31	67
NHW 10 NHW-ADM 7 NHW-HSS 2 NHW-HSS 2 NHW-HS NHW-IS 0 MRC ATIONAL REVENUE 0 NREV 2 NREV-TAX 2 NREV-TAX 2 RIVY COUNCIL PC PC COL 2 ECC 3 UBLIC WORKS PW PW-PTS COL 2 ECC 3 UBLIC WORKS PW PW-PTS CMC 8 NCC REE 2 CIENCE AND TECHNOLOGY ST ST 22 NRC-STI NSERC SECS SECS SECS-OL SECS-SES SECS-NTA SECS-NTA SECS-NTA SECS-NTA SECS-NTA SECS-NTA	18	5		13	ø	31	67
NHW-ADM 7 NHW-HSS 2 NHW-MS NHW-HP NHW-IS 0 MRC ATIONAL REVENUE 0 NREV 2 NREV-TAX 2 REV COUNCIL PC PC COL 2 ECC 3 UBLIC WORKS PW PW-PTS CHC 8 NCC EGIONAL ECONOMIC EXPANSION 22 NRC ST 22 NRC NRC ST 22 NRC NRC ST 22 NRC NRC ST 22 NRC ST 22 NRC ST 22 NRC SECS SECS-OL SECS-CIT SECS-CIT SECS-CIT SECS-CIT S		4.5	7.4	45			10.4
NHU-HSS 2 NHU-HS NHU-IS 0 MRC ATIONAL REVENUE 2 NREV-TAX 2 NREV-TAX 2 RIVY COUNCIL 2 PC COL 2 ECC 3 JBLIC WORKS PW PW-PTS COL 2 EGONAL ECONOMIC EXPANSION 2 REE 2 CIENCE AND TECHNOLOGY 2 VRC SEGONAL ECONOMIC EXPANSION 2 REE 2 CIENCE AND TECHNOLOGY 2 ST SEGONAL ECONOMIC EXPANSION SEGONAL ECONOMIC EXPANSION SECS SECS SECS SECS-CIT SGEN-ADM SGEN-ADM SGEN	88 60	15	34 32	45 23			191
NHW-MS NHW-HP NHW-IS Ø MRC ATIONAL REVENUE NREV NREV-TAX 2 NREV-TAX 2 NREV-TAX 2 RIVY COUNCIL PC COL 2 ECC 3 UBLIC WORKS PW CMC 8 NCC CEGIONAL ECONOMIC EXPANSIONAL 2 NRC SGENAL ECONOMIC EXPANSIONAL 2 NRC NRC-SIR NRC-SIR NSERC SC 5 ECSES-OL SECS-OL SECS-CIT SGEN-ADM SGEN-ADM SCAND SS-SUPP STCAN <td>16</td> <td>5</td> <td></td> <td>20</td> <td></td> <td>and here date</td> <td>43</td>	16	5		20		and here date	43
NHW-IS Ø MRC ATIONAL REVENUE 2 NREV-TAX 2 NREV-TAX 2 RIVY COUNCIL PC PC COL 2 ECC 3 UBLIC WORKS PW PW-PTS EGIONAL ECONOMIC EXPANSION 8 NRC EGIONAL ECONOMIC EXPANSION 22 NRC SEGIONAL ECONOMIC EXPANSION 22 NRC ST 22 NRC NRC-SIR NRC-SIR SECS SECS SECS-CIT SECS-CIT SECS-CIT SGEN-ADM SS-SUPP SS-SUPP SS-SUPP SS-SUPP				Allele area ware		adult same wave	
MRC ATIONAL REVENUE NREV-TAX 2 NREV-TAX 2 RIVY COUNCIL PC PC COL 2 ECC 3 UBLIC WORKS PW PW-PTS CMHC 8 NCC EGIONAL ECONOMIC EXPANSIV REE 2 CIENCE AND TECHNOLOGY ST 22 NRC-SIR NRC-SIR NRC-STI NRCSC SECS SECS-OL SECS-ES SECS-CIT SECS-CIT SECS-CIT SECS-CIT SGEN SGEN-ADM SS-SUPP STCAN 49 RANSPORT TPT-AIR TPT-AIR <t< td=""><td>-</td><td>with some with</td><td></td><td></td><td></td><td></td><td></td></t<>	-	with some with					
ATIONAL REVENUE NREV 2 NREV-TAX 2 RIVY COUNCIL PC COL 2 ECC 3 UBLIC WORKS PW PW-PTS CMHC 8 NCC EGIONAL ECONOMIC EXPANSION REE 2 CIENCE AND TECHNOLOGY ST 22 NRC NRC-SIR NRC-SIR NRC-SIR NRC-SIR SECS-TRA TPT-ADM TPT-AIR TPT-SUR	12	4	2	2	any one whole	and show been	20
NREV 2 NREV-TAX 2 RIVY COUNCIL 2 PC COL 2 ECC 3 UBLIC WORKS PW PW-PTS CMHC 8 NCC EGIONAL ECONOMIC EXPANSION REE 2 NRC NRC-SIR NRC-SIR NRC-SIR NSERC SECS 5 ECRETARY OF STATE SECS SECS-CIT SGEN-ADM SCANPP SS-SU	and the set	and any over		THE ALSO NEW		and also another	AND AND 1923
NREV-TAX 2 RIVY COUNCIL PC PC COL 2 ECC 3 UBLIC WORKS PW PW PW-PTS CMHC 8 NCC REE 2 CIENCE AND TECHNOLOGY ST ST 22 NRC NRC NRC-SIR NSERC NSECS SECS-OL SECS-OL SECS-CIT SECS-CIT SECS-CIT SGEN-ADM SGEN-ADM SS-SUPP SS-SUPP SS-SUPP SS-SUPP STATE SECS-SUP STATE SS-SUPP	44	69	2	122			239
PC COL 2 COL 3 UBLIC WORKS PW PW PW-PTS CMHC 8 NCC EGIONAL ECONOMIC EXPANSION REE 22 NRC NRC-SIR NRC-SIR NRC-SIR NRC-SIR SECS 5 ECRETARY OF STATE SECS-TRA SECS-CI SECS-CI SECS-CIT SECS-TRA SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM SS-SUPP STCAN 49 RANSPORT TPT-ADM TPT-AIR TPT-AIR	44	69	2	122			239
COL 2 ECC 3 UBLIC WORKS PW PW-PTS CMHC 8 NCC EGIONAL ECONOMIC EXPANSION 22 REE 2 CIENCE AND TECHNOLOGY 22 NRC NRC-SIR NRC-SIR NRC-SIR NSERC SECS 5 ECRETARY OF STATE SECS-CI SECS-CIT SECS-CIT SECS-CIT SECS-CIT SGEN-ADM SGEN-ADM SGEN-ADM SS-SUPP STCAN 49 RANSPORT TPT-AIR TPT-AIR TPT-AIR TPT-SUR							
ECC 3 UBLIC WORKS PW PW CMHC 8 NCC EGIONAL ECONOMIC EXPANSIONAL ECONOMIC EXPANSIONAL 22 REE 22 CIENCE AND TECHNOLOGY 22 NRC NRC-SIR NRC-SIR NRC-SIR NRCCSTI NSERC SECS SECS-OL SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-CIT SGEN SGEN SGEN SSGEN SS -SUPP SS-SUPP STATE SS SS-SUPP STATE STATE STATE STATE STATE STATE STATE STATE STATE	shift fault com	50			anay ana ana	anto entre Allab adato verse	
UBLIC WORKS PW PW-PTS CMHC 8 NCC EGIONAL ECONOMIC EXPANSION REE 2 CIENCE AND TECHNOLOGY ST 22 NRC NRC-SIR NRC-STI NSERC SECS SECS-OL SECS-CIT SECS-TRA SECS-CIT SECS-CIT SECS-CIT SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM STCAN 49 RANSPORT TPT-ADM TPT-AIR TPT-AIR TPT-SUR <td>60</td> <td>25</td> <td>17</td> <td>35</td> <td>ware with minh</td> <td>delinis anisolo vareare</td> <td>63 140</td>	60	25	17	35	ware with minh	delinis anisolo vareare	63 140
PW PW-PTS CMHC 8 NCC EGIONAL ECONOMIC EXPANSION REE 2 REC 22 NRC NRC-SIR NRC-SIR NRC-SIR NSERC SECS 5 ECRETARY OF STATE SECS-OL SECS-CIT SECS-TRA SGEN-ADM SCS-SUPP SS-SUPP STATE S SS-SUPP STATE 49 RANSPORT TPT-ADM TPT-AIR TPT-AIR TPT-SUR	00	LU	# 1	00			1-+0
CMHC B NCC EGIONAL ECONOMIC EXPANSION REE 2 CIENCE AND TECHNOLOGY ST 22 NRC-SIR NRC-SIR NRC-SIR SC 5 ECRETARY OF STATE SECS-OL SECS-CI SECS-CI SECS-CI SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-S SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-RA SECS-RA SECS-RA SECS-RA SECS-RA SECS-RA SECN SECN SECN SECN SECN SS-SUPP STC	ALC: 100 TOT	with same new				same same very	
NCC EGIONAL ECONOMIC EXPANSION REE 2 CIENCE AND TECHNOLOGY ST 22 NRC NRC-SIR NRC-SIR NSERC 5 ECRETARY OF STATE SECS SECS-OL SECS-TRA SECS-TRA SECS-CIT							
EGIONAL ECONOMIC EXPANSI REE 2 CIENCE AND TECHNOLOGY ST 22 NRC NRC-SIR NSERC SECS-SI SECS-CIT TPT-ADM TPT-AIR TPT-SUR	57	2	33	21	and and any		121
REE 2 CIENCE AND TECHNOLOGY 22 NRC NRC-SIR NRCSTI NSERC SC 5 ECRETARY OF STATE SECS-OL SECS-OL SECS-CIT SECS-CIT SECS-CIT SGEN SGEN-ADM RCMP SSGEN-ADM SS-SUPP STCAN 49 RANSPORT TPT-ADM TPT-AIR TPT-AIR TPT-SUR	0N 3			-	due dail 600	anital adult your	3
ST 22 NRC NRC-SIR NRC-STI NSERC 5 ECRETARY OF STATE SECS SECS-OL SECS-TRA SECS-TRA SECS-CIT SECS-CIT SECS-CIT SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM SGEN-ADM STCAN 49 RANSPORT TPT-ADM TPT-AIR TPT-AIR TPT-SUR	12	5	3	8		with same same	29
NRC NRC-SIR NSERC SEC 5 ECRETARY OF STATE SECS-OL SECS-OL SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-CIT SGEN-ADM SGEN-ADM SGEN-ADM SSGEN-ADM SSGEN-ADM SSGEN-ADM STCAN 49 RANSPORT TPT TPT-ADM TPT-AIR TPT-AIR TPT-SUR							
NRC-SIR NRC-STI SEC 5 ECRETARY OF STATE SECS-OL SECS-OL SECS-CL SECS-CL SECS-CL SECS-CL SECS-CL SECS-CL SECS-CLT PSC OLICITOR GENERAL SGEN SGEN SGEN SGEN SGEN SCOMP SS-SUPP STCAN 49 RANSPORT TPT-ADM TPT-AIR TPT-AIR TPT-SUR	11	69	5	53	1		161
NRC-STI NSERC SC 5 ECRETARY OF STATE SECS SECS-OL SECS-ES SECS-CIT SECS-CIT SECS-CIT SECS-CIT OLICITOR GENERAL SGEN SGEN VPLY AND SERVICES SS SS SS-SUPP STCAN 49 RANSPORT TPT-ADM TPT-AIR TPT-AIR TPT-SUR							
NSERC SC 5 ECRETARY OF STATE SECS SECS-OL SECS-CI SECS-TRA SECS-CIT PSC OLICITOR GENERAL SGEN-ADM SGEN-ADM RCMP SS SS SS-SUPP STCAN 49 RANSPORT TPT TPT-ADM TPT-AIR TPT-SUR						4040 and 4044	
ECRETARY OF STATE SECS SECS-OL SECS-ES SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-CIT SECS-CIT SGEN SGEN SGEN SGEN SGEN SGEN SS SS SS SS STCAN 49 RANSPORT TPT TPT-ADM TPT-ADM TPT-AIR TPT-AIR TPT-SUR	and the spin	All a fair and					
SECS SECS-OL SECS-TRA SECS-CIT PSC OLICITOR GENERAL SGEN VEGEN SGEN SGEN UPLLY AND SERVICES SS SS SSS-SUPP STCAN 49 RANSPORT TPT-ADM TPT-AIR TPT-SUR	16	20	5	19			65
SECS-OL SECS-ES SECS-TRA PSC OLICITOR GENERAL SGEN SGEN-ADM RCMP VPPLY AND SERVICES SS SS SS-SUPP RANSPORT TPT-ADM TPT-AIR TPT-SUR	4	170	5	40	AND 1944 1950	and any way	100
SECS-ES SECS-TRA PSC PSC OLICITOR GENERAL SGEN SGEN-ADM RCMP RCMP SSEN-ADM RCMP SSEN-SUPP STCAN 49 RANSPORT TPT TPT-ADM TPT-AIR TPT-AIR TPT-SUR	2	130		49		and any way	188
SECS-TRA SECS-CIT PSC OLICITOR GENERAL SGEN SGEN SGEN SGEN SGEN SGEN WPLY AND SERVICES SS SS STCAN 49 RANSPORT TPT TPT-ADM TPT-AIR TPT-AIR TPT-SUR	2	8				AND AND ADD	10
PSC OLICITOR GENERAL SGEN RCMP UPPLY AND SERVICES SS SS-SUPP STCAN 49 RANSPORT 7 TPT TPT-ADM TPT-AIR TPT-AIR TPT-SUR		120		49			169
OLICITOR GENERAL SGEN RCMP UPPLY AND SERVICES SS SS-SUPP STCAN 49 RANSPORT TPT TPT-ADM TPT-MAR TPT-AIR TPT-SUR		2	5				- 7
SGEN SGEN-ADM RCMP UPPLY AND SERVICES SS SS-SUPP STCAN 49 RANSPORT TPT-ADM TPT-MAR TPT-SUR	and the same	and and and			And the beau		
SGEN-ADM RCMP UPPLY AND SERVICES SS SS-SUPP STCAN 49 RANSPORT TPT TPT-ADM TPT-AIR TPT-SUR	35	3		10	3	have well made	51
UPPLY AND SERVICES SS	35	3	ANA ANA 9899	iö	3		51
SS SS-SUPP STCAN 49 RANSPORT TPT TPT-ADM TPT-AIR TPT-SUR	an an un				-		
STCAN 49 RANSPORT TPT TPT-ADM TPT-MAR TPT-AIR TPT-SUR							
STCAN 49 RANSPORT TPT TPT-ADM TPT-MAR TPT-AIR TPT-SUR	halls ware ware			0			0
RANSPORT TPT TPT-ADM TPT-MAR TPT-AIR TPT-SUR	786	751	811	2,142	37		0 4,576
TPT TPT-ADM TPT-MAR TPT-AIR TPT-SUR	100	1.01	011	C1 7-4C	01		47.01.0
TPT-MAR TPT-AIR TPT-SUR	8				date take war		8
TPT-AIR TPT-SUR	6			mm has not	Over some some		6
TPT-SUR	ana una			Amon - 4000 - 52-54	their deal wave		
	2			wave and all	the set of	ware when and	
CTC 2	42	1	11	12			2 63
REASURY BOARD	· L	8	A 4	£ 6			00
TB 29	18	145	2	44			238
TB-ADM 29	18	145	2	44	and the state		238
OTAL 223	2,465	1,800	1,517	3,623	179	31	9,838

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PENERM, PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES 21 CATEGORY, BY ACTIVITY, 1980-83

FULL-TIME EQUIVALENT PERSON-YEARS)

HE TIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1530-81								
HTRAMURAL R&D	22	339	142	95	197	1	20	815
INTRAMURAL RSA	137	1,841	1,528	1,313	3,398	228	12	8,458
ADMIN. OF E TRAMURAL FROGRAMS	13	91	88	11	123	3	0	329
TOTAL	173	2, 271	1,758	L 418	3,718	232	32	9,602
4581-82								
HATE MURAL F.D	24	340	147	102	182	1	20	815
INTERMURAL P.SA	157	1,940	1,601	1,350	4, 429	235	11	9,723
TRAMURAL ROGRAMS	13	103	89	11	136	3	0	354
tona:	194	2, 382	1,836	1,463	4,746	239	31	10,892
1982-03								
INTERMURAL Red	24	353	144	104	180	1	20	826
INTRAMURAL RSA	186	1,993	1,563	1,400	3,291	178	11	8,622
ROMIN, OF FRAMURAL PROGRAMS	13	119	93	13	152	0	Ø	389
TOTAL	223	2,465	I.800	1, 517	3,623	179	31	9, 338



Distribution by Cabinet Committee



FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY COMMITTEE, BY SCIENCE ACTIVITY

(# THOUSANDS) NATURAL SCIENCES HUMAN SCIENCES NATURAL AND HUMAN SCIENCES R&D RSA R& D RSA R& D RSA TOTAL S&T ____ \$ % \$ 2 \$ % \$ 2 2 \$ \$ % \$ % with party party 1980-81 TOTAL 1,240,020 100.0 437,587 100.0 95,072 100.0 348,575 100.0 1,335,092 100.0 786,162 100.0 2,121,254 100.0 ECONOMIC DEVELOPMENT 961,774 77.6 214,346 49.0 11,169 11.7 34,041 9.8 972,943 72.9 248,387 31.6 1,221,330 57.6 SOCIAL DEVELOPMENT 146,444 11.8 191,367 43.7 53,392 56.2 135,688 38.9 199,836 15.0 327,055 41.6 526,891 24.8 EXTERNAL AFF. & DEF. 127,542 10.3 27,664 6.3 16,165 17.0 15,746 4.5 143,707 10.8 43,410 5.5 187,117 8.8 SERVICE TO GOVERNMENT 4,260 0.3 4,210 1.0 14,346 15.1 163,100 46.8 18,606 1.4 167,310 21.3 185,916 8.8 1981-82 TOTAL 1,533,864 100.0 491,437 100.0 109.473 100.0 469,749 100.0 1,643,337 100.0 961,186 100.0 2,604,523 100.0 ECONOMIC DEVELOPMENT 1,215,701 79.3 241,168 49.1 14,952 13.7 39,395 8.4 1,230,653 74.9 280,563 29.2 1,511,216 58.0 SOCIAL DEVELOPMENT 175,175 11.4 212,708 43.3 61,231 55.9 155,248 33.0 236,406 14.4 367,956 38.3 604,362 23.2 EXTERNAL AFF. & DEF. 141,580 9.2 31,062 6.3 17,196 15.7 18,023 3.8 158,776 9.7 49,085 5.1 207,861 8.0 SERVICE TO GOVERNMENT 1,408 0.1 6,499 1.3 16,094 14.7 257,083 54.7 17,502 1.1 263,582 27.4 281,084 10.8 1982-83 TOTAL 1,784,287 100.0 578,213 100.0 130,415 100.0 448,524 100.0 1,914,702 100.0 1,026,737 100.0 2,941,439 100.0 ECONOMIC DEVELOPMENT 1,410,454 79.0 283,328 49.0 17,774 13.6 43,120 9.6 1,428,228 74.6 326,448 31.8 1,754,676 59.7 SOCIAL DEVELOPMENT 196,184 11.0 254.398 44. A 74,396 57.0 168,373 37.5 270,580 14.1 422,771 41.2 693,351 23.6 EXTERNAL AFF. & DEF. 175,269 9.8 34,304 5.9 21,084 16.2 20,721 4.6 196,353 10.3 55,025 5.4 251.378 8.5 SERVICE TO GOVERNMENT 2,380 0.1 6,183 1.1 17,161 13.2 216,310 48.2 19,541 1.0 222,493 21.7 242.034 8.2

TABLE 59

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CABINET COMMITTEE

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
OR	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL
ECONOMIC DEL	ELOPMENT CA	BINET COM	MITTEE	as and the and and and and the two set and the					
AGR	151, 119	1,250	152,369	166,784 4,783 153,383 5,103 3,515 2,200 76,139 14,972 2,435 12,532	1,738	168,522	194,281	1,788	196,069
AGR-DEV	139.446	1.250	149,696	153,383	1.738	155, 121	177,026	1.788	178.814
AGR-RI	4, 590		4,590	5,103		5,103	7,981		7,981
AGR-CGC	2,883		2,883	3,515		3,515	4, 190		4, 190
CLFB		89	. 89	2,200	92	2,200	2,300	145	145
COMM-COMM	60,571	4,751	65, 322	76,139	5,161	81,300	61,430	5,296	66,726
CCA-ODM	14,545	2,879	17,424	14,972	3 932	19,118	17,731	3,444	23,175
CCA-CON	2,170	1,411	3,581	2,435		2,435	2,850		2,850
CCA-COR CCA-CICP		1,411 788 680	101100	12,537		12,537	14,881		14/001
CCA-CICP		680	680 1,677		1,114			1,589 2,493	1,589
ÊD EMR	179.637	1,677 8,422	179,059	219.242	2,038	2,038 229,699 70,342 159,357	268,835		
EMR-ENER	46, 428	2,100	48,528	67,992	2,350	70,342	78,902	2,690	81,592
EMR-MES	124,209	6.322	130,531	101100	8,107	159,357	189,933	8,955	198,888
AECB	170,637 46,428 124,209 775 96,772 382 50,280		775 96,772	1,099 114,182 495 58,293		114, 182	268,835 78,902 189,933 2,071 132,384 501 69,362		132,384
NEB	382	1,307	1,689	495	1,681	2,176	501	1,689	2,190
ENV-FOR	50,280		50,280	58, 293		58,293	69,362		69,362
F&O F&O-FM	112,903	3,500	116,403	126,541	3,430	129,971	142,001 142,001 170,575 169,515	3,792	145,793
I TC	05 000	1 500	07 100	140,611	2,935	143,546	170,575	2,739	173, 314
ITC-TI	95,928 94,700	1,562	97,490 95,917	139, 473	2,556	142,029	169,515	2,360	171,875
ITC-TOUR	1 220	345	1 220	1 129	379	143,546 142,029 379 1,138 4,191 3,287	1 060	379	1 060
LAB	1,220	3,813	3,813	17100	4, 191	4, 191		4,724	4,724
REE	771	1,712	2,483	957	2,330	3,287	5,588	2,697	8,285
ST	1,358	7,004	8,362	1,553	8,035	9,588	1,895	8,917	10,812
NRC-SIR	211.444	which ages show	211,444	278,784		278,784	339,027		339,027
NRC-STI	14,658		14,658	18,590		18,590	21,665	-	21,665
NSERC	162,871	2.000	162,871	201,803	7 5 40	201,803	227,081	1 017	227,081
55	14.391	2,890	14,953	14.561	3, 544	15, 117	14.574	4,047	15, 128
SS-SUPP	14, 391	562	14,953	14,561	556	15, 117	14,574	554	15,128
TPT OPM	16,117	1,034	17,151	20,063	1,300	21,363	22,281	1,669	23,950
TPT-HDM TPT-MOR	5,155	933	8,513	8,927	1,180	3,413	9,911	1,004	9,911
TPT-AIR	2,407		2,407	2,843	Allow wheel allow	2,843	3, 164		3,164
TPT-SUR	44	101	145	60	120	180	86	165	251
CTC		2,758	2,758	140, 473 1, 138 957 1, 553 297, 374 278, 784 18, 590 201, 803 14, 561 14, 561 14, 561 14, 561 20, 063 8, 233 8, 927 2, 843 60	2,715	2,715		3,255	3,255
TOTAL CC	1,176,120	45,210	1,221,330	1,456,869	54,34?	1,511,216	1,693,782	60,894	1,754,676
EXTERNAL AFT		E 000	E 0.00		C CED	C CEO		7,220	7,220
EA-CIA	9989 6000 spin	5,929	5,929		6,650	6,650		7,220	7,220
CIDA	32,234	4,257	36,491	35,739	4,636	40,375	39,694	5,280	44,974
IDRC	20,110	19,688	39,798	24, 439	21,600	46,039	29,896	26,730	56,626
NDFF	100.534	2,037	102,528	109,693	2.333	112,026	136,995	2,575	139,570
NDEF-SER	100,534	2,037	102,571	35,739 24,439 2,771 109,693 109,693	2,333	112,026	136,995	2,575	139,570
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FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, BY CABINET COMMITTEE

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			I982-83	
AGENCY	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL
SOCIAL DEVEL COMM-AC CBC CRTC NFB NLIB NMUS PA SSHRC EI EI-ADM CEIC ENV ADM ENV-APS ENV-AES ENV-AES	LOPMENT CAB 634 18,811 181,371 1,579 8,760 115,833 	INET COMMI 657 3,636 602 17,245 35,204 10,817 42,378 9,529 9,529 7,758 15,499 261 	TTEE 657 3,636 634 17,245 54,015 10,817 42,378 9,529 9,529 9,529 7,758 196,870 1,840 8,763	NATURAL 203,725 1,621 8,170 134,107 58,104 1,723 3,368 	983 4,042 679 21,609	983 4,042 679 603 21,609	 697 22,307 245,322 1,682 1,682	815 4,607 25,842 39,486 13,689 56,676 10,180 8,126 19,419 438	815 4.607 819 697 25,842 61,793 13,689 56,676 10,180 8,126 8,126 264,741 2,120
ENV-PC IAND IAND-IIA JUST-ADM JUST-CUIO CHRC LRC NHW NHW-HSS NHW-HSS NHW-HSS NHW-HSS NHW-HSS NHW-HS SHW-HP NHW-IS SECS-CI SECS-CI SECS-CI SECS-CIT SGEN SGEN-ADM RCMP	48,747 48,696 2,086 37,965 82,031 3,126 71	I,937 4,281 2,729 1,552 304 1,466 I5,065 5,974 8,56 5,974 8,56 5,31 9,454 9,073 853 139 5,121 2,960 4,175 4,175	4,957 4,281 2,729 1,552 304 1,552 304 5,812 5,974 2,086 37,965 37,965 37,965 37,965 37,965 37,965 37,965 37,965 37,965 12,580 9,073 139 5,121 2,960 4,175 4,175	3,368 53,929 53,929 8,731 3,918 41,280 100,167 4,784 295	2,674 6,012 3,912 2,100 2,885 8,061 10,012 11,031 10,017 816 415 5,681 3,105 5,669 5,669	6,042 6,012 3,912 2,100 2,349 72,614 8,061 18,743 3,910 41,280 41,280 41,280 41,280 5,661 10,017 8,105 5,669 5,669 5,669	164,750 164,750 66,971 1,919 3,673 3,673 60,184 60,184 112,884 5,215 112,884 5,215 300	2,830 8,114 6,014 2,100 325 2,938 20,727 8,999 10,811 11,671 10,941 1,031 1,031 895 5,335 3,689 5,169 5,169	L5, 429 G, 898 395 G, 503 8, 114 G, 014 2, 100 2, 938 80, 911 8, 993 18, 566 2, 167 50, 262 112, 884 16, 886 10, 941 1, 895 5, 335 3, 680 5, 169 5, 169
TOTAL CC	337,811	189,080	526,891	387,883	216,479	604, 362	450, 582	242,769	693,351
PSC STCAN TB TB-ADM	8,310 8,310 8,310 160	8,514 8,514 4,486 4,486 549 975 8,030 92 144,134 10,666 10,666	8,514 8,514 4,486 4,486 4,486 549 975 8,030 8,310 252 144,134 10,666 10,666	7,657 7,657 258	229,965 12,927 12,927	229,965 12,927 12,927		187,219 15,444 15,444	187,219 15,444 15,444
TOTAL CC	8, 470	177,446	185,916	7, 907	273, 177	281,084	8,563	233, 471	242,034
the set of the set of the set of the set of the				2,025,301					

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY PERFORMER, 1980-1983

ECONOMIC DEVELOPMENT CABINET COMMITTEE

(\$ THOUSANDS)

PERFORMER	1980-	81	1981-	82	1982-	83
PERFORMER	\$	%	\$	*	\$	%
INTRAMURAL	733,850	(60.1)	852,017	(56.4)	1,006,660	(57.4)
INDUSTRY	241,459	(19.8)	342, 691	(22.7)	384,742	(21.9)
UNIVERSITIES	184,759	(15.1)	230,759	(15.3)	258,607	(14.7)
NON-PROFIT INSTITUTIONS	9,038	(0.7)	12, 522	(0.8)	15,952	(0.9)
PROVINCIAL & MUNICIPAL	33,931	(2.8)	48,629	(3.2)	64,058	(3.7)
FOREIGN	10,689	(0.9)	14,249	(0.9)	13,908	(0.8)
OTHER CANADIAN	7,604	(0.6)	10, 349	(0.7)	10,749	(0.6)
TOTAL	1,221,330	(100.0)	1,511,216	(100.0)	1,754,676	(100.0)

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY PERFORMER, 1980-1983

SOCIAL DEVELOPMENT CABINET COMMITTEE

(\$ THOUSANDS)

PERFORMER	1980-	81	1981-	82	1982-	83
	\$	%	\$		\$	
INTRAMURAL	342,396	(65.0)	389,072	(64, 4)	450,829	(65.0)
INDUSTRY	14,804	(2.8)	17,490	(2.9)	20,950	(3.0)
UNIVERSITIES	128,046	(24,3)	150, 177	(24.8)	171,186	(24,7)
NON-PROFIT INSTITUTIONS	12,520	(2.4)	13, 373	(2.2)	14,288	(2.1)
PROVINCIAL & MUNICIPAL	12,498	(2,4)	13,873	(2.3)	15,658	(2.3)
FOREIGN	7,323	(1.4)	9,756	(I.6)	9,480	(1.4)
OTHER CANADIAN	9, 304	(1.8)	10,621	(1.8)	10,960	(1.6)
	this with man wat dath age when this man man man with age man way war					
TOTAL	526,891	(100.0)	604,362	(100.0)	693,351	(100.0)

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY PERFORMER, 1980-1983

EXTERNAL AFFAIRS AND DEFENCE CABINET COMMITTEE

(\$ THOUSANDS)

PERFORMER	1980-	81	1981-	82	1982-	83
FERFORMER	\$	%	\$	%	\$	%
INTRAMURAL	94, 521	(50.5)	39,896	(48.1)	112,729	(44.8)
INDUSTRY	45,444	(24.3)	54, 433	(26.2)	74,279	(29.5)
UNIVERSITIES	6,862	(3.7)	9, 191	(4,4)	11,204	(4.5)
NON-PROFIT INSTITUTIONS	317	(0.2)	391	(0.2)	643	(0.3)
PROVINCIAL & MUNICIPAL	120	(0.1)	150	(0.1)	207	(0.1)
FOREIGN	39,233	(21.0)	43,227	(20.8)	51,553	(20.5)
OTHER CANADIAN	620	(0.3)	573	(0.3)	763	(.0.3)
TOTAL	187, 117	(100.0)	207,861	(100.0)	251,378	(100.0)

** INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

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FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY PERFORMER, 1980-1983

SERVICE TO GOVERNMENT CABINET COMMITTEE

(\$ THOUSANDS)

PERFORMER	1980-	81		1981-	82		1982-	83	
	\$	%		\$		*	\$		%
INTRAMURAL	180,216	(96.	9)	277,419	(98.7)	238,443	(98.5)
INDUSTRY	4,392	C 2.	4)	2,443	Ç	0.9)	2,973	(1.2)
UNIVERSITIES	289	(0.	2)	218	C	0.1)	168	C	0.1)
NON-PROFIT INSTITUTIONS	672	(0.	4)	698	(0.2)	274	(0.1)
PROVINCIAL 8. MUNICIPAL	10	(0.	0)	11	(0.0)	50	(0.0)
FOREIGN	226	(0.	D	261	(0.1)	126	(0.1)
OTHER CANADIAN	1 1 1	(0.	1)	34	(0.0)	0	(0.0)
ay, ann ann ann ann 200 Alla ann ann ann ann ann ann ann ann ann		a							
TOTAL	185,916	(100.	0)	281,084	(100.0)	242,034	(100.0)

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CABINET COMMITTEE

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
ECONOMIC DEVI	ELOPMENT CA	BINET COM	MITTEE		I ppp app app one one one one off an	a colid milds which some other some some most which oblid with		a name name name name name name name ninit and	
AGR	142,902	9,467	152,369	158,460	10,062	168,522	186,053	10,016	196,069
AGR-ADM AGR-DEV	176 962	4,200	4,200	151,704	4,783	4,783 155,121	176, 155	5,084 2,659	5,084 178,814
AGR-RI	136,962 4,590					E 107	7 001		7,981
AGR-CGC	1,350	1,533	2,883	5,103 1,653 76,783 3,623 3,032	1,862	3,515 2,200 92	1,917	2,273	4,190
CDC CLFB	71	598	298	71	2,200	2,200	I 17	2,500	2,500
COMM-COMM	60,694	4,628	65, 322	76,783	4,517	92 81,300 19,118	61,890 4,637	4,836	66,728
CCA	2,662	14,762	17,424	3,623	15,495	19,118	4,637 3,855	18,538	23,175
CCA-ADM CCA-CON CCA-COR CCA-CICP ED	1 411	2.170	3,581	0,002	2,435	3,032	5,000	2,850	
CCA-COR	788	2, 170 12, 375	13,163		12,537	12,537		14.881	14.88
CCA-CICP	463	217	680	591	523	1,114	782	807	1,589
ED EMR EMR-ENER	170 045	1,677	179,059	174,237	2,038	229,699	214,472	2,493	280,480
EMR-ENER	45,851	2,677	48,528	65,751	4,591	70,342	75, 159	6,433	81,592
EMR-MES	84, 194	46,337	130,531	108,486	50,871	159,357	139,313	59,575	
AECB	775	17,924	130,531 775 96,772	1,099 96,202	17,980	1,099 114,182	2,071	21,879	
NEB	10,040	1,689	1,689		2,176	2,176		2,190	2,198
ENV-FOR	45,530	4,750	50,280	53,450	4,843		63,819	5,543	69,362
F&O	57,509	58,894 58,894	116,403 116,403	64,011 64,011	65,960 65,960	129,971	64,913 64,913	80,880 80,880	145.797
F&O-FM ITC ITC-TI ITC-TOUR ITC-GO LAB REE	57,509	3, 301	97,499	139.343	4,203	143,546	168, 628	4,686	173,314
ITC-TI	92,714	3,203	97,490 95,917	137,934	4,095	142,029	167,297	4,578	171,875
ITC-TOUR	1 227	98	95,917 345 1,228 3,813	139, 343 137, 934 271 1, 138	198	1 1 79	167, 297 271 1, 060 745 1, 258 1, 895 312, 448 312, 448	108	1.868
LAB	603	3,210	3,813	662	3,529	4, 191	745	3,979	4,724
REE	872	1,611	2.483	1,071	2,216	3,287	1,258	7,027	
REE ST NRC	1,358	7,004	8,362 226,102	1,553	8,035 42,377	9,588	1,895	8,917	
NRC-SIR	189,977	36,125	211,444	254,997	23,787	278,784	312,448	26,579	
NRC-STI		14,658	14.658		18,590	18.590			21 669
NSERC	146,238	16,633	162,871	180,023	21,780	201.803	202,484 2,201 12,583 12,583	21, 665 24, 597 1, 846 2, 545 2, 545	227,081
5	1.498	1,392	2,890 14,953	1,912 12,574	1,630 2,543	3,542 15,117	12,583	2,545	15, 128
00.01100	12,383	0 570	14 057	10 574	D E 47	10 117	12,583	2,545	15,128
TPT	5,350	11.801	17,151	9,120	12,243	21,363	15,777	8,173	23,956
TPT-HDM TPT-MOR	3,600	2,486	8,513	2,809	6,118	9,413	8,445	1,466	9,91
TPT-AIR	303	2,104	2,407	583	2,260	2,843	1,048	2,116	3,164
TPT-SUR	126	19	145	144	36	180	215	36	25
CTC	1,439	1,319	2,758	12, 574 9, 120 5, 584 2, 809 583 144 1, 462	1,253	2,715	1,732	1,523	3,205
TOTAL CC	972,943	248, 387	1,221,330	1,230,653	280,563	1,511,216	1,428,228	326,448	1,754,670
EXTERNAL AFF	AIRS AND D	E 020	E 000		6,650	6,650	una ann bhe	7,220	7,220
					0.000	0.050		7,220	7,220
CIDA	10,044	26,447	36,491	11,315	29,060	40,375		32,128	
IDRC	33,170	6,628	39,798	11,315 37,837 109,624	8,202	46,039	46,584	10,042	56,620
NDEF	100, 493	2,078	102,571	109,624	2,402	112, 926	136,923	2,647	139,570
NDEF-SER	100,493	2,078	102,571	11,315 37,837 109,624 109,624	2,402	112,026	46,584 136,923 136,923	2,647	139,570
and the sale and the sale and the sale and the sale	143,707			158,776			196,353	55,025	251,378
							and well date not date one cars and that you are 1970 -		

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CABINET COMMITTEE

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82	•	and any diff op the case the case with the set	1982-83	
DEPARTMENT OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	Rt.D	RSA	TOTAL
SOCIAL DEVEL	OPMENT CAB	INET COMMI	TTEE						
CBC CRTC NFB NLIB NMUS PA SSHRC EI EI-ADM CEIC ENV	25,568 1,528 1,528 42,646	3,636 252 17,245 51,124	3,636 602 634 17,245 54,015 10,817 42,378 9,529 9,529 9,529 7,758	679 427 5,759 27,874 1,477 1,477	4,042 176 21,609 52,896 11,960 18,727 8,125 8,125 9,255 172,772	46,601 9,602 9,602 9,255 220,725	819 497 6,417 35,726 1,568 1,568 1,568 56,849	4,607 200 25,842 55,376 13,689 20,950 8,612 8,612 8,612 8,612 8,612 8,612	4,607 819 697 25,842 61,793 13,689 56,676 10,180 10,180 8,126 264,741
ENV-EPS ENV-AES ENV-ECS ENV-PC	5,388 18,860 17,533 466 3,423	3,372 96,973 40,292 12,146 1,534		2	1,497 2,822 111,480 43,611 13,362 2,674 378	1,929 8,170 134,107 62,646 13,873 6,422 380	26,807 21,888 571 4,158	1,645 2,892 137,943 50,554 14,858 2,740 382	164,750 72,442 15,429 6,898
IAND-IIA IAND-NA JUST JUST-ADM JUST-CUIO CHRC	1,950		1,552	3,746 3,022 3,022	2,990 890 2,100 288	6,012 3,912 2,100 288	4,852 4,852 	3,262 1,162 2,100 325	6,503 8,114 6,014 2,100 325
LRC NHW-ADM NHW-HSS NHW-HS NHW-HP NHW-IS	913 27,568 1,677 12,576 2,086 11,229	36,244 4,297 4,680 26,736	37,965	2,161 13,308 3,918 12,417	882 40,810 5,900 5,435 28,863 612	2,349 72,614 8,061 18,743 3,918 41,280	1,750 32,575 2,522 12,495 2,167 15,391	1,100 48,336 6,477 6,071 34,871	2,938 80,911 8,999 18,566 2,167 50,262
MRC CMHC SECS-OL SECS-ES SECS-TRA SECS-CIT SGEN SGEN-ADM	79,461 4,573 5,845 2,868 2,497 2,415 2,415	2,570 8,007 3,228 139 2,253 463 1,760 1,760	82,031 12,580 9,073 853 139 5,121 2,960 4,175 4,175	96, 849 6, 847 5, 992 509 3, 200 2, 283 3, 013 3, 013 295	3,318 9,768 4,025 307 415 2,481 822 2,656 2,656	100,167 15,815 10,017 816 415 5,681 3,105 5,669 5,669	109,146 6,495 6,415 724 3,108 2,583 3,013 3,013	3,738 10,391 4,526 895 2,227 1,097 2,156 2,156	112.884 16.886 10.941 1.031 5.335 3.689 5.169 5.169
TOTAL CC	199.836	327.055	526,891	236,406	367.956	694, 362	278.580	422.771	693.351
CEDUICE TO C	OURDUMENT								
FIN FIN-FEP NREV-TAX PC COL ECC PW PW-PTS NCC	827 827 549 7,019 4,260 4,260 10	646	202	828 828 589 6,440 1,408 1,408 1,408	201		796 796 89 6,814 2,380 2,380 2,380	5,758 624	12,613 6,986 6,986 3,097 7,814 8,138 8,138 634
PSC STCAN TB TB-ADM	5,828 113 113	138,306 10,553 10,553	144,134 10,666 10,666	8,108 113 113	221,857 12,814 12,814	229,965 12,927 12,927	9,324 128 128	177,895 15,316 15,316	187,219 15,444 15,444
TOTAL CC	18,606	167,310	185,916	17,502	263,582	281,084	19,541	222, 493	242,034
TOTAL	1,335,092	786,162	2, 121, 254	1,643,337	961,186	2,604,523	1,914,702	1,026,737	2,941,439

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY. BY CABINET COMMITTEE

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
OR AGENCY	R&D		TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGR-ADM AGR-DEV AGR-RI	142,852 136,912 4,590	8,267 4,200 2,534	151,119 4,200 139,446	158,410 151,654 5,103 1,653	8,374 4,783 1,729 1,862 2,200	166,784 4,783 153,383 5,103 3,515	186,003 176,105 7,981 1,917	8, 278 5, 084 921 2, 273	177,026
CDC CLFB COMM-COMM CCA	60,501	70 14, 545	60,571 14,545	76,069		14,972		17,731	61,430
CCA-ADM CCA-CON CCA-COR CCA-CICP ED	1979 444 444	tille and were	2, 170 12, 375		2, 435 12, 537	2,435 12,537		2,850 14,881	
EMR EMR-ENER EMR-MES AECB AECL NEB ENV-FOR F&O F&O F&O-FM ITC	128,487 45,851 82,556 775 78,848 	42,230	96,772 382 50,280 112,903 112,903 95,928 94,700	172,372 65,751 106,621 1,099 96,202 53,450 63,157 63,157 137,021 135,883	46,870 2,241 44,629 17,980 495 4,843 63,384 63,384 3,590 3,590	67,992 151,250 1,099 114,182 495 58,293 126,541 126,541 126,541 140,611	75,159 136,502 2,071 110,505 63,819 63,967 63,967 166,302	3,743 53,431 21,879 501 5,543	189,933 2,071 132,384 501 69,362 142,001 142,001 170,575
ITC-GO LAB REE ST	1,228 1,358 189,977 189,977	771 36,125 21,467 14,658	226,102 211,444 14,658	1,553 254,997 254,997	957 42, 377 23, 787 18, 590	957 1,553 297,374 278,784 18,590	1,060 1,895 312,448 312,448	5,588 48,244 26,579 21,665	5,588 1,895 360,692 339,027 21,665
SC	12, 172	16,633 2,219 2,219 10,885 1,570 7,192 2,104 19	162,871 14,391 14,391 16,117 5,153 8,513 2,407 44	180,023 12,376 12,376 8,972 5,556 2,809 583 24	21,780 2,185 2,185 11,091 2,677 6,118 2,260 30 40 40 40 40 40 40 40 40 40 40 40 40 40	14,561	202,484 12,387 12,387 15,582 6,039 8,445 1,048 50	24,597 2,187 2,187 6,699 3,081 1,466 2,116 36	14.574
TOTAL CC	the same star ages like our the star ages who			1,215,701	the sec the res and any size and and a	an Mir alle das date and are une and any add a			
EXTERNAL AFF EA EA-CIA CIDA IDRC IJC NDEF NDEF-SER	8,595	23,639	32,234		26, 030		11 962	28,632 1,714 2,988 970	39,694 29,896 2,988 136,995
			the fill old one very use old non-out I	141, 580		tel suo any ana aya aya dia usa ma bia ma a			

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CABINET COMMITTEE

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
AGENCY	Rs. D	RSA	TOTAL	R&D	RSA	TOTAL		RSA	TOTAL
SOCIAL DEVE	LOPMENT CAR	INET COMMI	TTEE						
COMM-AC CBC						-			
CRTC				and, ends 1991	176				
NFB NLIB	382		634	427	176	603	497	200	697
NMUS	1,082	17,729	18,811	2,173	18,839	21,012	1,319	20,988	22,307
PA SSHRC				Where with words					
EI					Alley when weath				
EI-ADM	the second second					and the first			
CEIC	41,806	139,565	181,371	47,039	156,686	203,725	55,766	189,556	245,322
ENV-ADM	399	1,180	L 579	432	L 189	1,621	475	1,207	1,682
ENV-EPS ENV-AES	5,388 18,860	3,372 96,973	8,760 115,833	5,348 22,627	2,822	8,170	7,108	2,892	10,000
ENV-ECS	16,810	36,823	53,633	18,250	39,854	I34,107 58,104	26,807 20,950	137,943 46,021	164,750 66,971
ENV-PC	349	1,217	1,566	382	1,341	1,723	426	1,493	1,919
IAND IAND-IIA	2,246	774	3,020	2,587	781	3,368	2,810	863	3,673
IAND-NA	2,246	774	3,020	2,587	781	3,368	2,810	863	3,673
JUST JUST-ADM									
JUST-CUIO									
CHRC							with more wood		
LRC NHM	19,581	29, 166	48,747	23,058	30,871	53,929	23,306	36,878	60,184
NHW-ADM	10,301			23,030	30, or 1	33,929	23,300	36,010	60,184
NHW-HSS	6,266	2,430	8,696	6,723	2,008	8,731	5,748	2,007	7,755
NHW-MS NHW-HP	2,086 11,229	26,736	2,086 37,965	3,918 12,417	28,863	3,918 41,280	2,167 15,391	34,871	2,167 50,262
NHW-IS						41/200	13,331		30,202
MRC	79,461	2,570	82,031	96,849	3,318	100,167	109,146	3,738 2,175	112,884
CMHC SECS	1,815	1,311	3,126	2,747	2,037	4,784	3,040	2,175	5,215
SECS-OL									
SECS-ES SECS-TRA									
SECS-CIT			ere ere ste						
SGEN									
SGEN-ADM RCMP	71		71	295		295			390
	71						300		
TOTHL CC	146,444	191,367	337,811	175, 175	212,708	387,883	196, 184	254, 398	450, 582
SERVICE TO	GOVERNMENT (CABINET CO	MMITTEE						
FIN FIN-FEP	4000 0000 0000								
NREV	Area - 1000	white some where				and man one			
NREV-TAX									
COL				and any ever					and and the
ECC		Am- 1997 AM							
PW PW-PTS	4,260 4,260	4,050 4,050	8,310 8,310	1,408 1,408	6,249	7,657	2,380	5,758	8,138
NCC	4,200	160	160	1,400	6,249 250	7,657 250	2,380	5,758 425	8,138 425
PSC									
STCAN TB		100 and and	andre upper andre						
TB-ADM						rear data and			
TOTAL CC	4, 260	4,210	8,470	1, 408	6, 499	7,907	2,380	6, 183	8,563
TOTAL	1,240,020	437,587	1,677,607	1,533,864	491,437	2,025,301	1,784,287	578,213	2,362,500

ECONOMIC DEVELOPMENT CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1988-83 ¢

(FULL-TIME EQUIVALENT PERSON-YEARS		FULL-TIME	EQUIVALE	ENT PERS	ON-YEARS)
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ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & Foreign Serv.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1980-81								
INTRAMURAL R&D	43	4, 496	299	4,012	1,236	2,321	0	12,406
INTRAMURAL RSA	18	770	237	1, 135	7 17	370	0	3,245
ADMIN. OF EXTRAMURAL PROGRAMS	8	126	197	24	177	26	0	557
TOTAL	69	5,392	732	5,171	2,129	2,716	Ø	16,209
1981-82								
INTRAMURAL R&D	48	4,690	310	4, 128	1,253	2,371	0	12,800
INTRAMURAL RSA	21	774	263	1,121	734	435	0	3, 347
ADMIN. OF EXTRAMURAL PROGRAMS	11	122	201	28	190	28	0	579
TOTAL	80	5, 586	774	5,276	2, 177	2,833	Ø	16,726
1982-83								
INTRAMURAL R&D	89	4,732	285	4,041	1,379	2,439	0	12,964
INTRAMURAL RSA	17	707	301	1, 104	787	478	0	3,392
ADMIN. OF EXTRAMURAL PROGRAMS	12	151	266	38	284	33	0	705
TOTAL	I 18	5,589	852	5, 183	2,370	2,950	0	17,061

SOCIAL DEVELOPMENT CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1980-83

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & Foreign Serv.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1980-8 I								
INTRAMURAL R&D	ΙI	573	147	192	157	56	0	1,136
INTRAMURAL RSA	30	1,139	289	1,688	742	173	Ø	4,060
ADMIN. OF EXTRAMURAL PROGRAMS	7	22	22	2	39	Ø	Ø	91
TOTAL	47	I.735	458	1,881	938	229	Ø	5,287
1981-82								
INTRAMURAL R&D	11	592	147	194	159	56	Ø	1, 159
INTRAMURAL RSA	32	1,146	290	1,686	751	169	Ø	4,074
ADMIN. OF EXTRAMURAL PROGRAMS	7	24	24	4	39	0	0	96
TOTAL	49	1,761	461	1.883	950	225	0	5,329
1982-83								
INTRAMURAL R&D	1 I	602	148	199	169	56	Ø	1, 185
INTRAMURAL RSA	33	1,159	295	1,687	770	155	Ø	4,098
ADMIN. OF EXTRAMURAL PROGRAMS	7	22	25	4	42	0	0	98
TOTAL	50	I,782	468	1,889	982	211	0	5,382

EXTERNAL AFFAIRS AND DEFENCE CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1980-83 (FULL-TIME EQUIVALENT PERSON-YEARS)

							· · · · · · · · · · · · · · · · · · ·	
ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & Foreign Serv.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1980-81								
INTRAMURAL R&D	12	511	104	480	209	271	143	1,730
INTRAMURAL RSA	7	17	7	5	43	Ø	0	79
ADMIN. OF EXTRAMURAL PROGRAMS	2	48	14	7	39	Ø	10	120
TOTAL	21	576	125	492	291	27 I	153	I,928
1981-82								
INTRAMURAL R&D	12	522	91	486	206	268	151	1,736
INTRAMURAL RSA	7	17	7	6	42	0	0	79
ADMIN. OF EXTRAMURAL PROGRAMS	3	57	14	7	48	Ø	10	130
TOTAL	22	596	I I 2	499	288	268	161	1,945
1982-83								
INTRAMURAL R&D	12	524	91	487	206	267	151	1,738
INTRAMURAL RSA	7	17	9	5	43	0	Ø	81
ADMIN. OF EXTRAMURAL PROGRAMS	3	63	14	7	43	0	10	139
TOTAL	22	603	114	499	292	267	161	1,957

SERVICE TO GOVERNMENT CABINET COMMITTEE

FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1980-83

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1980-81								
INTRAMURAL R&D	Ø	6	Ø	1	Ø	Ø	0	7
INTRAMURAL RSA	ପ	31	7	6	1	Ø	Ø	45
ADMIN. OF EXTRAMURAL PROGRAMS	Ø	8	Ø	3	Ø	Ø	ପ	11
TOTAL		4S	7	9	1	0	0	63
1981-82								
INTRAMURAL R&D	Ø	S	Ø	0	Ø	Ø	0	5
INTRAMURAL RSA	8	29	9	6	2	Ø	Ø	47
ADMIN. OF EXTRAMURAL PROGRAMS	0	9	Ø	3	ß	ପ	ପ	12
TOTAL	0	42	9	9	2	0	0	63
1982-83								
INTRAMURAL R&D	Ø	10	Ø	8	8	0	0	10
INTRAMURAL RSA	Ø	28	10	2	5	Ø	0	45
ADMIN, OF EXTRAMURAL PROGRAMS	Ø	2	Ø	ß	2	Ø	Ø	4
TOTAL	0	40	I Ø	2		0		

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CABINET COMMITTEE

(\$ THOUSANDS)

DEPARTMENT		1980-81			1981-82			1982-83	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
ECONOMIC DEVE									
AGR AGR-ADM	50	1,200	1,250	50	1,688	1,738	50	1,738	1,788
AGR-DEV AGR-RI	50	1,200	1,250	50	1,688	1,738	50	1,738	1,788
AGR-CGC									
CDC CLFB COMM-COMM CCA CCA-ADM	71 193 2,662	18 4, 558 217	89 4,751 2,879	71 714 3,623 3,032	21 4, 447 523	92 5,161 4,146 3,032	117 560 4,637 3,855	28 4,736 807	145 5,296 5,444 3,855
CCA-CON CCA-COR	1,411 788		1,411 788			-the data data			
CCA-CICP ED EMR EMR-ENER	463	217 1,677 6,784 2,100	680 1,677 8,422 2,100	591 1,865	523 2,038 8,592 2,350	1,114 2,038 10,457 2,350	782 2,811	807 2,493 8,834 2,690	1,589 2,493 11,645 2,690
EMR-MES	1,638	4,684	6,322	1,865	6,242	8,107	2,811	6,144	8,955
AECB									
NEB ENV-FOR		1,307	1,307	949 440 440	1,681	1,681		1,689	1,689
F&O F&Ø-FM ITC ITC-TI ITC-TOUR ITC-GO	825 825 989 742 247	2,675 2,675 573 475 98	3,500 3,500 1,562 1,217 345	854 854 2,322 2,051 271	2,576 2,576 613 505 108	3, 430 3, 430 2, 935 2, 556 379	946 946 2,326 2,055 271	2,846 2,846 413 305 108	3,792 3,792 2,739 2,360 379
LAB REE ST	603 872	3,210 840 7,004	3,813 1,712 7,004	662 1,071	3,529 1,259 8,035	4,191 2,330 8,035	745	3,979 1,439 8,917	4,724 2,697 8,917
NRC NRC-SIR									
NRC-STI									
NSERC SC SS SS-SUPP TPT	1, 498 211 211 118 17	1,392 351 351 916	2,890 562 562 1,034	1,912 198 198 148	1,630 358 358 1,152	3,542 556 556 1,300	2,201 196 196 195	1,846 358 358 1,474	4,047 554 554 1,669
TPT-ADM	17	916	933	28	1, 152	1,180	30	1,474	1,504
TPT-MAR TPT-AIR						THE MAKE BODY			
TPT-SUR CTC	101 1,439	1,319	101	120 1,462	1,253	120	165 1,732		165 3,255
TOTAL CC	11, 169	34,041	45,210	14,952	39,395	54, 347	17,774	43,120	60,894
EXTERNAL AFFA	IRS AND DE	FENCE CABI	NET COMMITT	EE	0.050	0.050			
EA-CIA		5,929	5,929		6,650	6,650		7,220	7,220
CIDA IDRC	1,449	2,808	4,257	1,606 14,793	3,030	4,636	1,784 18,402	3,496	5,280
IJC NDEF NDEF-SER	713 713	1,324 1,324	2,037	797 797	1,536	2,333 2,333	898 898	1,677	2,575 2,575
TOTAL CC	16,165	15,746	31,911	17,196	18,023	35,219	21,084	20,721	41,805

FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, BY CABINET COMMITTEE

(\$ THOUSANDS)

DEPARTMENT		1980-81	a page with same first page same that ages same size and	n dhi ann ann anga ann ann dhir ann and dhir All	1981-82			1982-83	an ing aik tan ing aik ing tan tan
DEPARTMENT OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
SOCIAL DEVELC	PMENT CAB	INET COMMIT	TEE	a men allah ann ana ana ana ana ana ana alah feo			and over the black and any over over over \$200 hour over		0.5
SOCIAL DEVELC COMM-AC CBC CRTC NFB NLIB NMUS PA	602	657 3,636	657 3,636 602	679	983 4,042	983 4,042 679	819	815 4,607	4,607 819
SSHRC EI EI-ADM CEIC ENV ENV-ADM	25,568 1,528 1,528 840	16,810 8,001 8,001 7,758 14,659 261	42,378	27,874	11, 727 8, 125 8, 125 9, 255 16, 086 308	46,601 9,602 9,602 9,255 17,000 308	35,726 1,568 1,568 1,568 	20,950 8,612 8,612 8,126 18,336 438	10, 180 10, 180 10, 180 8, 126 19, 419 438
ENV-PC IAND IAND-IIA IAND-NA JUST JUST-ADM	117 1,177 1,177 1,950 1,950	10,929 760 2,331 779	11,046 1,937 1,937 4,281 2,729	129 1,161 2 1,159 3,022 3,022	12,021 1,893 378 1,515 2,990 890	12,150 3,054 2,674 6,012 3,912	938 145 1,348 1,335 4,852 4,852 4,852 1,750 9,269 2,522 6,747	13,365 1,877 382 1,495 3,262 1,162	13,510 3,225 395 2,830 8,114 6,014
NHW-HP NHW-IS MRC CMHC SECS-OL SECS-ES SECS-TRA SECS-CIT SGEN SGEN-ADM RCMP	2,758 5,845 480 2,868 2,497 2,415 2,415	531 6,696 3,228 373 139 2,253 463 1,760 1,760	531 9,454 9,073 853 139 5,121 2,960 4,175 4,175	3,300 5,992 509 3,200 2,283 3,013 3,013	612 7,731 4,025 307 415 2,481 822 2,656 2,656	612 11,031 10,017 816 415 5,681 3,105 5,669 5,669	3,455 6,415 724 3,108 2,583 3,013 3,013	917 8,216 4,526 307 895 2,227 1,097 2,156 2,156	917 11,671 10,941 1,031 1,031 5,335 3,680 5,169 5,169
TOTAL CC	53, 392	135,688	189,080	61,231	155,248	216,479	74,396	168,373	242,769
SERVICE TO GC FIN FIN-FEP NREV- NREV-TAX PC COL ECC PW	827 827 549 7,019	CABINET COM 8,514 8,514 3,659 3,659 975 1,011	1MITTEE 8,514 8,514 4,486 4,486 549 975 8,030	828 828 589 6,440	I0,077 10,077 9,890 9,890 1,172 952	10,077 10,077 10,718 10,718 589 1,172 7,392	796 796 89 6,814	12,613 12,613 6,190 6,190 3,097 1,000	12,613 12,613 6,986 6,986 89 3,097 7,814
NCC PSC	10	82	92	16	321	337	10	199	209
STCAN TB TB-ADM	5,828 113 113	138,306 10,553 10,553	144,134 10,666 10,666			229,965 12,927 12,927	128		187,219 15,444 15,444
TOTAL CC	14, 346	163,100	177,446	16,094	257,083	273, 177	17,161	216,310	233, 471
TOTAL	95,072			109,473			130,415		

ECONOMIC DEVELOPMENT CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1980-83

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1980-81								
INTRAMURAL R&D	9	86	22	17	34	1	Ø	169
INTRAMURAL RSA	51	278	164	64	221	3	0	782
ADMIN. OF EXTRAMURAL PROGRAMS	0	1 1	0	0	Ø	0	0	12
TOTAL	60	374	187	81	256	4	0	963
1981-82								
INTRAMURAL R&D	11	81	23	19	33	1	0	169
INTRAMURAL RSA	57	291	159	66	226	3	Ø	802
ADMIN. OF EXTRAMURAL PROGRAMS	0	12	0	0	Ø	0	0	13
TOTAL	68	385	183	85	259	4	0	984
1000								
1982-83								
INTRAMURAL R&D	11	88	25	19	34	1	0	179
INTRAMURAL RSA	58	305	167	71	228	2	0	831
ADMIN. OF EXTRAMURAL PROGRAMS	0	12	0	0	Ø	0	0	13
TOTAL	69	405	193	90	262	3	0	1,022

SOCIAL DEVELOPMENT CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1980-83

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1980-81								
INTRAMURAL R&D	10	125	90	36	88	Ø	Ø	348
INTRAMURAL RSA	25	691	281	485	641	166	Ø	2,288
ADMIN. OF EXTRAMURAL PROGRAMS	7	48	67	6	89	3	0	212
TOTAL	42	855	439	527	817	169	0	2, 849
1981-82								
INTRAMURAL R&D	9	129	92	33	87	Ø	Ø	349
INTRAMURAL RSA	32	720	267	477	635	150	Ø	5,580
ADMIN. OF EXTRAMURAL PROGRAMS	7	45	71	3	94	3	0	222
TOTAL	48	893	429	512	816	153	0	2,851
1982-83								
INTRAMURAL R&D	9	134	90	34	91	0	0	358
INTRAMURAL RSA	35	740	280	480	652	139	Ø	2,327
ADMIN. OF EXTRAMURAL PROGRAMS	7	50	75	3	105	0	0	239
TOTAL	52	924	445	516	848	139	0	2, 923

EXTERNAL AFFAIRS AND DEFENCE CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1980-83

ΑCTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1980-81								
INTRAMURAL R&D	Ø	1	3	0	5	Ø	20	29
INTRAMURAL RSA	0	31	73	44	67	0	12	226
ADMIN. OF EXTRAMURAL PROGRAMS	6	48	20	5	34	0	0	105
TOTAĽ	6	72	96	49	105	0	32	360
1981-82								
INTRAMURAL R&D	0	1	3	Ø	5	Ø	20	29
INTRAMURAL RSA	0	27	77	47	63	Ø	11	224
ADMIN. OF EXTRAMURAL PROGRAMS	6	46	18	В	42	Ø	0	119
TOTAL	6	74	98	55	109	Ø	31	372
1982-83								
INTRAMURAL R&D	Ø	1	3	0	5	0	20	29
INTRAMURAL RSA	0	25	81	44	63	0	11	224
ADMIN. OF EXTRAMURAL PROGRAMS	6	58	18	10	47	0	0	138
TOTAL	6	84	102	54	115	0	31	391

SERVICE TO GOVERNMENT CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1980-83

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & Föreign serv.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1980-81					- And with more and the raw was not used and they like the			
INTRAMURAL R&D	4	127	26	42	70	0	Ø	269
INTRAMURAL RSA	61	842	1,011	719	2,469	59	0	5,161
ADMIN. OF EXTRAMURAL PROGRAMS	Ø	0	Ø	Ø	Ø	Ø	0	Ø
TOTAL	65	969	1,037	761	2,539	59	Ø	5, 430
1981-82								
INTRAMURAL R&D	4	129	29	50	57	0	Ø	269
INTRAMURAL RSA	68	902	1,098	761	3,505	82	Ø	6,416
ADMIN. OF EXTRAMURAL PROGRAMS	0	0	Ø	Ø	0	Ø	Ø	0
TOTAL	72	1,031	1, 127	811	3,562	82	0	6,685
1982-83								
INTRAMURAL R&D	4	129	26	52	50	Ø	Ø	261
INTRAMURAL RSA	93	923	1,035	805	2,348	37	0	5,241
ADMIN. OF EXTRAMURAL PROGRAMS	Ø	Ø	Ø	0	0	Ø	Ø	Ø
TOTAL	97	1,052	1,061	857	2, 398	37	0	5,502

I SCOPE AND LIMITATIONS OF THE DATA

The expenditure data for scientific activities controlled by federal departments and agencies provided in this document correspond to the budgetary expenditures by program presented in Main Estimates for the approval of Parliament. As a consequence, the following kinds of costs or expenditures are not included:

- a) expenditures by federal agencies which do not receive budgetary appropriations, e.g., Petrocan, Canadian National Railways, Air Canada.
- b) non-budgetary expenditures for advances, loans, etc.
- c) "non-program" costs, i.e., services provided by other departments, accommodation costs, the portion of administration costs attributable to scientific activities where a separate administration program exists.

Depending on the purpose of the analysis, it may or may not be appropriate to include non-program costs. For budgetary analysis and decision-making it is preferable to deal with direct program expenditures only, thereby providing a consistent base for comparing expenditures on scientific and technological (S&T) activities with other types of expenditures in the federal sector.

If the purpose of the analysis is to compare the magnitude of the federal expenditures on S&T activities with those in other sectors in the country and in other countries, then it is preferable to include non-program costs. The sum of direct expenditures plus non-program costs then represents the total cost of the federal S&T effort. With caution, the resulting data may be compared with the S&T effort in industry, where all direct and indirect costs are usually reported. Such "total cost" data are reported by Statistics Canada in The Annual Review of Science Statistics (Cat. No. 13-2-12) and various issues of the Service Bulletin (Cat. No. 13-003). The federal intramural expenditures reported in these latter publications will thus be greater than the same category reported herein. The extramural expenditures, however, are not affected and will be the same in both sets of publications.

II DEFINITIONS

Federal departments and agencies in receipt of budgetary appropriations are requested to identify those resources reported in Main Estimates which are to be used in scientific and technological (S&T) activities in both the natural and the human sciences. The basic reporting units are the budgetary programs used in presenting the Main Estimates.

In the text which follows, the two major fields of science, the natural sciences and the human sciences, and the two kinds of S&T activities scientific research and experimental development and related scientific activities are described, followed by a description of intramural and extramural performance of S&T activities, definitions of the performance sectors and а discussion of the fundina mechanisms for extramural performance. Detailed definitions of research and experimental development and of the various related scientific activities for the natural sciences and for the human sciences are then provided and the Appendix closes with the definitions concerning personnel resources.

The definitions used in collecting the data for this report are essentially the same as those used by the OECD in its "Frascati Manual" and by UNESCO in its "Manual for Statistics on Scientific and Technological Activities".

A. NATURAL AND HUMAN SCIENCES

With respect to the two major S&T fields, the term, natural sciences, embraces the disciplines of study concerned with understanding, exploring, developing or utilizing the natural world. Included are the engineering, mathematical, life and physical sciences. The term, human sciences, is to be regarded as synonymous with social sciences and humanities and thus embraces all disciplines involved in studying human actions and conditions and the social, economic and institutional mechanisms affecting humans. Included are such disciplines as anthropology, demography, economics, geography, history, languages, literature and linguistics, law, library science, philosophy, political science, psychology, religious studies, social work, sociology, and urban and regional studies.

In some situations it may be difficult to decide whether an activity falls in the natural or in the human sciences. Nevertheless, an assignment must be made, and respondents are asked to consider the dominant orientation of the work and the nature of the expertise of the personnel involved.

B. SCIENTIFIC AND TECHNOLOGICAL ACTIVITIES

There are two main categories of scientific and technological activities (S&T):

- i) (Scientific) research and experimental development (R&D), which is defined as creative work undertaken on a systematic basis in order to increase the stock of knowledge, including the knowledge of man, culture and society, and the use of the stock of knowledge to devise new applications.
- ii) Related scientific activities (RSA), which are defined as those activities which complement and extend R&D by contributing to the generation, dissemination and application of scientific and technological knowledge. The kinds of related scientific activities for the two main fields of science are enumerated below and more fully described later:

Natural Sciences	Human Sciences
Scientific data collection	General pupose data collection
Scientific information services	Scientific information services
Technical feasibility studies	Socio-economic feasibility studies
Education support	Education support
Museum services	Museum services
Testing and Standardization	Operations and Policy Studies

C. INTRAMURAL AND EXTRAMURAL PERFORMANCE

Where the S&T activities are managed and carried out primarily by federal government employees they are classified as <u>intramural S&T</u>. Even where major components of the project are provided by outside agencies, such as computer services, analytical services, provision of ship and airplane services, construction of laboratory, test or prototype equipment, if the planning, supervision, reporting, etc., are directly controlled by in-house personnel, then the activity is considered to be intramural. This also applies to S&T activities carried out by a department or agency on behalf of another federal department or agency on a cost recovery basis. On the other hand if the management and conduct of an S&T activity is entrusted to a non-federal organization it is classified as being extramurally performed. The six extramural performance sectors used in surveying S&T expenditures by the federal government are: Canadian industry, Canadian universities, Canadian non-profit institutions, provincial and municipal governments, foreign performers, and other performers.

Intramural performance includes:

- scientific activities carried out by personnel of units assigned to the programs;
- the acquisition of land, buildings, machinery and equipment for scientific activities;
- the administration of scientific activities by program employees;
- the purchase of support services such as EDP and travel.

The intramural expenditures reported for scientific activities are those direct costs associated with scientific programs. These costs include that portion of a program's contribution to employee benefit plans (e.g., superannuation) which is applicable to the scientific manpower within the program. Non-program ("indirect") costs, such as the value of services provided by other departments without charge and accommodation provided by the reporting program are excluded.

Canadian industry - business and government enterprises including public utilities and government-owned firms. Industrial research institutes located at Canadian universities are considered to be in the university sector.

Canadian universities - including affiliated institutes owned, administered or staffed by universities.

Canadian non-profit institutions - charitable foundations, voluntary health organizations, scientific and professional societies, and other organizations not established to earn profits. Non-profit institutions primarily serving or controlled by another sector should be included in that sector (e.g. the Pulp and Paper Research Institute is in Canadian Industry).

Canadian provincial and municipal governments - departments and àgencies of these governments. Government enterprises, such as provincial utilities are included in the Canadian industry sector, and hospitals in the Canadian non-profit institutions sector.

Foreign performers - all foreign governments, foreign companies (including foreign subsidiaries of Canadian firms), international organizations, non-resident foreign nationals and Canadians studying or teaching abroad.

Other performers - individuals or organizations not belonging to any of the above sectors. This includes provincial research councils and foundations.

D. CONTRACTS, GRANTS AND CONTRIBUTIONS

The federal government uses three methods of funding extramurally-performed S&T activities:

- A contract is a legal agreement between two or more parties which will usually specify the nature and general objective of the S&T activity to be performed and the provision of the corresponding results according to an agreed schedule and cost.
- ii) A grant is an unconditional payment to a recipient and the government does not necessarily receive any services (information, goods, etc.) as a direct result. It is to be noted, however, that there may be eligibility conditions which prospective recipients must meet.
- iii) A contribution requires an agreement between the government and recipient specifying the terms and conditions under which funds will be paid to the recipient. In particular the payments are conditional on performance or achievement and the recipient's use of the funds provided is subject to audit.

In this report the term grants is used for both grants and contributions and data according to the method of funding extramural performance is collected only for R&D activities.

E. DEFINITIONS FOR THE NATURAL SCIENCES

Research and experimental development (R&D) - creative work undertaken on a systematic basis to increase the stock of scientific and technical knowledge or to discover new applications for existing knowlege. The central characteristic of R&D is an appreciable element of novelty and of uncertainty. The work is normally performed by, or under the supervision of, persons with postgraduate degrees in the natural sciences or engineering.

R&D is generally carried out by specialized R&D units. An R&D project however, may also involve the use of non-R&D facilities (e.g. testing grounds), the purchase or construction of specialized equipment and materials, and the assistance of other units. Costs of such items, attributable to the project, are considered R&D costs.

R&D units may also be engaged in non-R&D activities such as technical advisory services, testing, and construction of special equipment for other units. So far as is practical, the effort devoted to such operations is excluded from R&D.

On the other hand, R&D may be carried out by units normally engaged in other functions (e.g. a marine survey ship used for hydrological research, a geological survey team may be directed to work in a certain area in order to provide data for a geophysical research project). Such effort is part of an R&D project and again, so far as is practical, the costs are assigned to R&D expenditures.

Examples:

- 1. Routine autopsy on the causes of death is not research, but special investigation of a particular mortality in order to establish the side effects of certain treatments is research. Similarly, routine tests, such as blood and bacteriological tests, are not research, but a special program of blood tests in connection with the introduction of a new drug is applied research.
- 2. The keeping of daily records of temperature or of atmospheric pressure is data collection and not research. The investigation of new methods of measuring temperature is research as is the study and development of new systems and techniques for interpreting the data.

Research fellowships - awards to individuals for advances in research training and experience. Such payments are included as expenditures for R&D activities. Awards intended primarily to support the education of the recipients are reported as education support.

Scientific data collection - the gathering, processing, collating and analyzing of data on natural phenomena. These data are normally the results of surveys, routine laboratory analyses or compilations of operating records.

Data collected as part of an existing or proposed research project are costed against research. Similarly the costs of analyzing existing data as part of a research project are R&D costs, even when the data were originally collected for some other purpose. The development of new techniques for data collection is also considered a research activity.

Examples of scientific data collection are routine geological, hydrographic, oceanographic and topographic surveys; routine astronomical observations; maintenance of meteorological records; and wildlife and fisheries surveys.

Scientific information services - all work directed to recording, classifying, and disseminating scientific and technological information. Included are the operations of scientific and technical libraries, S&T information and advisory services, the Patent Office, the publication of scientific journals and bibliographies, and the organizing of scientific conferences. Grants for the publication of scholarly works are also included.

General purpose information services or information services directed primarily towards the general public are excluded, as are teaching activities.

Testing and standardization - work directed towards the establishment of national and international standards for materials, devices, products and processes, the calibration of secondary standards and non-routine quality testing. The development of new measures for standards, or of new methods of measuring or testing, is R&D and is reported as such. Excluded is routine testing such as monitoring radioactivity levels or soil tests before construction.

Feasibility studies - technical investigations of proposed innovative engineering projects to provide necessary additional information for decisions on implementation. Excluded is routine work such as selection of road routes and bridge sites unless there are conditions which impose innovative solutions.

Educational support - grants to individuals or institutions intended to support the post-secondary education of students in technology and the natural sciences. The activity includes the support of foreign students in their studies of S&T at Canadian or foreign institutions. General purpose grants to educational institutions are excluded. Grants intended primarily to support the research of individuals at universities are either R&D grants or research fellowships.

Museum services - the collecting, cataloguing, and displaying of specimens of the natural world or of representations of natural phenomena. The scientific activities of natural history museums, zoological and botanical gardens, aquaria, planetaria and nature reserves are included.

The activity represents a systematic attempt to preserve and display items from the natural world; in some ways it could be considered an extension of scientific information services. Parks which are not primarily restricted reserves for certain fauna or flora are excluded.

Where practical, efforts of such institutions devoted to R&D or to other activities such as S&T information are excluded from museum services and assigned to those activities. The costs of providing entertainment and recreation to visitors are excluded (e.g. restaurants, children's gardens and nurseries). Administration of extramural programs - the costs of identifiable units engaged in the administration of contracts and grants and contributions for scientific activities that are to be performed outside the federal government. These expenditures are broken down by the type of scientific activity supported, i.e., R&D or RSA.

F. DEFINITIONS FOR THE HUMAN SCIENCES

Research and experimental development (R&D) - creative work undertaken on a systematic basis towards the acquisition of new knowledge about man, his actions and his institutions, and the application of this knowledge in new ways.

R&D requires the acquisition of knowledge and not just information. New knowledge involves the integration of newly acquired information into existing hypotheses, the formulation and testing of new hypotheses or the re-evaluation of existing observations.

An R&D project generally has three characteristics:

- a substantial element of uncertainty, novelty and innovation;
- a well-defined project design;
- a report on the procedures and results of the project.

Examples:

- 1. Investigation of the factors determining regional variations in economic growth.
- 2. Studies of the effects of an urban development scheme on family group cohesiveness.
- 3. Investigation of the variables affecting the educational performance of children drawn from different social and ethnic groups.
- Development of reward systems which take into account the differing motives, attitudes and perceptions of management and workers.

Both "research" and "development" are often used with different meanings in the government. For example, it is increasingly common to hear that a person is "researching" something (i.e. the person is looking for information about something). Similarly, there are many units with either research or development or both terms in their titles which are concerned primarily with information gathering, speech writing, preparation of position papers or departmental organization. These are excluded from the scientific activity for R&D.

Research fellowships - awards to individuals for advanced research training and experience. Such payments are included as expenditures for R&D activities. Awards intended primarily to support the education of the recipients are reported as education support.

General purpose data collection - the routine gathering, processing, collating, analysis and publication of information on human phenomena using surveys, regular and special investigations and compilations of existing records. It excludes data collected primarily for internal administrative purposes (e.g. departmental personnel statistics) as well as the collection of data as part of an R&D project.

Data collected as part of an existing or proposed research project are costed against research. Similarly the costs of analyzing existing data as part of a research project are R&D costs, even when the data were originally collected for some other purpose. The development of new techniques for data collection is also considered a research activity.

Examples of general purpose data collection are the quinquennial censuses, and surveys of employment and production.

Scientific information services - the recording, classifying and disseminating activities of units concerned primarily with providing information for scientific activities in the social sciences and humanities.

Included are the operations of specialized libraries or national archives, the publication of scholarly journals and bibliographies, grants for the publication of scholarly works and the support of scientific and academic conferences.

General purpose information services or information services directed primarily towards the general public are excluded, as are teaching activities.

Economic and feasibility studies - investigations of the socio-economic characteristics and implications of specific situations. Such studies are generally limited to a specific problem and involve the application of established human science techniques and methodologies. Examples are a study of the viability of an iron foundry in a foreign country, or cost-benefit study of a proposed paper manufacturing centre in Manitoba.

Operations and policy studies - the analysis and assessment of departmental programs, policies and operations, the activities

of units concerned with the continuing analysis and monitoring of external phenomena (e.g. foreign economic statistics, defence and security information) as well as studies to provide an information base for policy development. The work is carried out by specialized units in some government departments, by consultants, by royal commissions and by task forces.

Education support - grants to individuals or institutions intended to support the post-secondary education of students in the social sciences and humanities. General purpose grants to educational institutions are excluded. The activity includes the support of foreign students in their studies of the social sciences at Canadian or foreign institutions.

Grants intended primarily to support the research of individuals at universities are either R&D grants or research fellowships.

Museum services - the collecting, cataloguing and displaying of specimens and representations relating to the history, social organization and creative efforts of man.

The activity represents a systematic attempt to preserve and display the works of man and to provide information on his works, history, and nature. The scientific activities of historical museums, archeological displays, and art galleries are included.

The costs of providing entertainment and recreation to visitors are excluded (e.g. restaurants, children's gardens and museums).

Administration of extramural programs - the costs of identifiable units engaged in the administration of contracts and grants and contributions for scientific activities that are to be performed outside the federal government. These expenditures are broken down by the type of scientific activity supported, i.e., R&D or RSA.

G. PERSONNEL RESOURCES

Data are also collected on the personnel resources devoted to or in support of intramurally-performed S&T activities. These resources included both scientific and technical personnel directly engaged in the S&T activities, such as scientific and engineering staff, technical staff, operational staff (e.g., field hands in agricultural research), and auxiliary staff such as secretaries, typists, administrative and financial staff. In regard to auxiliary staff there are two caveats:

- i) where the S&T activities are a part of the program being reported only the auxiliary staff relevant to the S&T activities are reported on a pro rata basis,
- ii) whenever financial and administrative support is provided from another program, that support is not allocated to the S&T resources for the program being reported.

Personnel resources are reported on an <u>equivalent full-time</u> basis. The unit used is <u>person-years</u>. Thus an employee working half-time on S&T activities is reported as 0.5 personyears.

Information on personnel appearing in this report is presented under the six occupational categories identified in the general classification system that applies to most public service positions:

- 1. Executive: refers only to the senior executive group. It is composed of positions, the incumbents of which are responsible for managing an agency and for providing advice on the development and conduct of government programs.
- Scientific & Professional: groups engaged in the application of a comprehensive body of knowledge acquired through university graduation or groups in which membership in Canada is generally controlled by legal licensing bodies.
- 3. Administrative & Foreign Service: groups engaged in the planning, execution, conduct and control of programs serving the public interest, relations between Canada and other countries and the requirements of internal management in the Public Service of Canada.
- 4. <u>Technical</u>: groups engaged in the conduct of analytical, experimental and investigative duties in all the sciences and the performance of similar technical duties in which the requisite knowledge and skills are normally acquired through completion of secondary school education and specialised training.
- 5. Administrative Support: groups such as clerical and regulatory; communications; data processing; office equipment operation; secretarial, stenographic, typing, and telephone operation.
- 6. Operational: groups engaged in the performance of a craft or of unskilled work. It refers to groups such as correctional, general services, postal operations, and printing operations.
- 7. <u>Military Personnel</u>: members of the Canadian Forces engaged in scientific activities.



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