# FEDERAL SCIENCE EXPENDITURES AND PERSONNEL 1981/82

**MARCH 1981** 



Ministry of State

Science and Technology Canada

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Federal science expenditures and personnel 1981/1982

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	Tabulation	Classificaton	N&H	N	
S&T	Totals	by department & by committee	10 110	-	
	Totals	by performer & by committee	12 112	44 -	
	Detailed activity	by performer	13	45	
	Science activity	by department & by committee	14 116	46 118	
	Performance sector	by department	16	48	
	Intramural	by department	18	50	
	Industry	by department	20	52	
	University	by department	21	53	
	Non-profit	by department	22	54	
	Provincial & municipal	by department	23	55	
	Foreign	by department	24	56	
	Other	by department	25	57	
	Total Science Activity	by committee	109	109	
R&D	Total	by performer	26	58	
RSA	Total	by performer	27	59	
R&D	Performance sector	by department	28	60	
	Industry, type of payment	by department	30	62	
	University plus non- profit, type of payment	by department	32	64	
RSA	Performance sector	by department	34	66	
P-Y	Occupational category	by department	36	68	
	Science activity	by category & by committee	42	74 120	

#### ACKNOWLEDGEMENT

This report presents a snapshot of science statistics taken in the context of the budgetary process which recently culminated in the tabling of Main Estimates 1981/1982.

Many people from many departments and agencies contributed to the preparation of this report. Members of the Interdepartmental Committee on Science Expenditures are owed special thanks for their assistance in providing the historical and planned science expenditure data on which this report is based. The Treasury Board Secretariat made it possible for these statistics to be derived through the budgetary machinery by incorporating the federal science statistics program of Statistics Canada and MOSST as addenda to the calls for Main Estimates and Program Forecasts.

The Science Statistics Centre, a Statistics Canada satellite located at MOSST, worked very closely with MOSST personnel and departmental contacts to ensure that the data base, derived in this way, would be accurate, consistent, and, of course, timely.

Finally, recognition must be given to the Research and Information Services Division of MOSST, whose programming efforts contributed significantly to the attractive appearance and convenient reproduction of the tables that form the core of this report.

#### INTRODUCTION

This document presents tables displaying Federal Government expenditures and personnel resources in the natural and human sciences. It is intended to accompany the Ministry publication Federal Science Activities 1981/82. As it is designed primarily for those with a knowledge of the nature of the government's scientific activities, a minimum of descriptive material is presented.

There are four main sections and an appendix. The sections present, in turn, data on the natural and human sciences combined, on the natural sciences, and on the human sciences. The fourth section presents expenditure data arranged according to the Cabinet policy committees under which the departments and agencies are grouped. The appendix contains definitions of terms and limitations of the surveys. Readers are urged to examine this appendix before attempting to draw conclusions from the data.

The data used for this publication are taken from the 1981/82 Main Estimates survey of expenditures and personnel resources in the natural and human sciences. Therefore, expenditures for each of fiscal years 1979/80, 1980/81 and 1981/82 are actual, forecast and estimates respectively.

Personnel categories are measured in full-time equivalent, that is, the number of person-years actually devoted to scientific activities by all the employees engaged in these activities. The totals include continuing, term, casual and seasonal employees. The 1979/80 data are actual, while the 1980/81 data include actual continuing to September 30, 1980, and forecast authorized totals to March 31, 1981. The 1981/82 data are estimates.

Note that "non-program" costs are not included. See the appendix for an explanation of this exclusion. Data which include "non-program" costs can be found in Statistics Canada publication, The Annual Review of Science Statistics (Cat. No. 13-212), and in various numbers of the Service Bulletin (Cat. No. 13-003).

Additional expansions or variations of these tabulations are available on request to the Program Review and Assessment Division.

Federal departments, agencies and programs are listed in the tables in the order used in Main Estimates for 1981/82. All agencies are listed by the ministers through whom they report to Parliament--for example, Statistics Canada is found under Supply and Services Canada. Program expenditures are listed on the appropriate lines, and summed to give departmental total, but non-departmental agencies are not included in these totals. For example, the amount shown opposite AGR is the sum of the corresponding amounts opposite the four programs that begin with AGR- (AGR-ADM, AGR-DEV, and so on), while expenditures under CLFB are not included in the AGR total.

The abbreviations used are given in the following list.

AGRICULTURE	
AGR	Department
AG R-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
CHIB	canadian bivestock reed board
COMMUNICATIONS	
COMM	Department
COMM-COMM	Communications
COMM-AC	Arts and Culture
CBC	Canadian Broadcasting Corporation
CRTC	Canadian Radio-Television and
	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	AFFAIRS
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
BUDLOVNDUM C INVIODAMI	
EMPLOYMENT & IMMIGRATIC	
EI	Department
EI-ADM	Administration
CEIC	Canada Employment and Immigration Commission
	CONTRET221011
ENERGY MINES AND RESOUL	RCES
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 Services
ENV-FOR	Canadian Forestry Service
ENV-PC	Parks Canada

EXTERNAL AFFAIRS Department EA Canadian Interests Abroad EA-CIA Candian International Development CIDA Agency International Development Research IDRC Centre FINANCE FIN Department Financial and Economic Policies FIN-FEP FISHERIES AND OCEANS F&O Department Fisheries and Marine Service F&O-FM INDIAN AFFAIRS & NORTHERN DEVELOPMENT TAND. Department Indian and Inuit Affairs TAND-IIA Northern Affairs IAND-NA INDUSTRY TRADE AND COMMERCE ITC Department ITC-TI Trade-Industrial Tourism ITC-TOUR ITC-GO Grains and Oilseeds JUSTICE JUST Department JUST-ADM Administration Canadian Unity Information Office JUST-CUIO Canadian Human Rights Commission CHRC Law Reform Commission LRC LABOUR LAB Department NATIONAL DEFENCE Department NDEF Defence Services NDEF-SER NATIONAL HEALTH AND WELFARE Department NHW Administration NHW-ADM NHW-HSS Health and Social Services NHW-MS Medical Services Health Protection NHW-HP NHW-IS Income Security MRC Medical Research Council NATIONAL REVENUE NREV Department NREV-TAX Taxation POST OFFICE PO Department

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



# **Natural and Human Sciences**

BY DEPARTMENT OR AGENCY

DEPARTMENT	• ••• ••• Mar ••• ••• ••• ••• ••• ••• •••	19 <b>79-80</b>			1980-81			1981-82	
OR AGENCY	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL
AGRICULTURE AGR AGR-ADM	142,400	1,541	143,941	151,025	1,857	152,882	167,874	2,271	170,145
AGR-DEV AGR-RI AGR-CGC CDC CLFB	3,134 131.745 4,686 2,835	491 1,050 479 79	3,625 132,795 4,686 3,314 79	3,212 138,947 5,673	607 1,250 600 119	3,819 140,197 5,673 3,793 119	3,729 153,074 7,556 3,515	583 1,688 1,000	4,312 154,762 7,556 4,515 136
COMMUNICATION COMM-COMM COMM-AC CBC CBC CRTC NFB NLIB NMUS PA SSHRC		5,137 582 3,348 542 14,730 31,983 9,320	59,208 58,626 582 3,348 499 14,730 58,062 9,320 36,581	636	5,311 663 3,654 776 17,179 32,245 9,900	70,913 663 3,654 776 636	50,511  698 20,832	3,974 679 21,572	56,785 759
CONSUMER AND CCA CCA-ADM CCA-CON CCA-COR CCA-CICP ECONOMIC DEVI	9,613 1,504 8,109	OFFOIDE		11,205 1,678 9,527	489	13,984 489 3,117 9,799 579	1,850 10,238	649	15,050 649 3,401 10,238 762
		1,600	1,600		1,806	1,806	ada dad Bre	2, 199	2,199
EI EI-ADM CEIC		9,203 9,203 5,800	9,203 9,203 5,800		9,529 9,529 7,758	9,529 9,529 7,758	ana kao kao	10,050 10,050 8,371	10,050 10,050 8,371
115.D	157.106	5.574	162,680 60,491 102,189 575 88,946 1,781	195,452 88,120 107,332 768 98,555 1,425	2,842	200,194 90,020 110,174 768 98,555 1,890	270,935 149,053 121,882 851 111,516 1,571	4,812 2,070 2,742  518	275,747 151,123 124,624 851 111,516 2,089
ENV-AES ENV-ECS ENV-FOR	1,315 202,943 7,075 102,837 53,245 39,786 1,425	4,164	207,107 7,075 102,837 57,409 39,786	50,325	4,240	1,840 234,644 8,134 117,703 58,482	269,213 1,621 265,869 8,170 133,936 65,470 58,293 1,723	5,118	8,170 133,936 70,588
ÊQ	32, 187	5,028 5,028 5,258 17,882	5,028 5,028 37,445 36,479	32,753	5,512 5,512 4,364 18,221	5,512 5,512 37,117 39,034	36,663	6,176 6,176 4,87 <b>3</b> 21,043	6,176 6,176 41,536 45,450
FIN FIN-FFP		8,114 8,114	8,114 8,114	900 Mar 194	9,507 9,507	9,507 9,507		11,001	11,001 11,001
FISHERIES ANI F&O F&O-FM	109,315	3,350 3,350	112,665 112,665	112,903 112,903	3,500 3,500	116,403 116,403	116,405 116,405	3,430 3,430	119,835 119,835
INDIAN AFFAII IAND IAND-IIA IAND-NA INDUSTRY TRAI	2,347	3,669 1,688 1,981	6,016 1,688 4,328	2,587	3,919 1,705 2,214	6,506 1,705 4,801	2,640 2,640	4,390 1,812 2,578	7,030 1,812 5,218
ITC ITC-TI ITC-TOUR ITC-GO	82, 184 80, 392 1, 792	1,277 932 345	83,461 81,324 345 1,792	97,808 96,868 940	2,106 1,761 345	99,914 98,629 345 940	123,727 123,197 530	3,325 2,946 379	127,052 126,143 379 530

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	the state time made with these data ware
OR AGENCY	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL
JUSTICE JUST JUST-ADM JUST-CUIO CHRC LRC LODOUD		4, 168 2,839 1,329 202 2,328	4, 168 2,839 1,329 202 2,328		4,794 3,242 1,552 230 2,622	4,794 3,242 1,552 230 2,622		6,315 4,215 2,100 255 3,302	6,315 4,215 2,100 255 3,302
LABOUR LAB NATIONAL DEFE		3,225	3,225		3,813	3,813		4, 191	4, 191
NDEF	85,508 85,508	1,627 1,627	87,135 87,135	96,696 96,696	1,796 1,796	98, 492 98, 492	108,249 108,249	I,984 1,984	110,233 110,233
NHW NHW-ADM NHW-HSS NHW-MS NHW-HP NHW-IS NHW-IS MRC	42,608 6,904 135 35,569 70,057	15, 392 5, 287 9, 618  487	58,000 5,287 16,522 135 35,569 487 70,057	49,788 8,735 1,440 39,613 82,031	16, 447 6, 440 9, 476  531	66,235 6,440 18,211 1,440 39,613 531 82,031	56,392 7,891 1,621 46,880 88,590	17,683 7,270 9,883  530	74,075 7,270 17,774 1,621 46,880 530 88,590
NATIONAL REVE NREV NREV-TAX	NUE	4, 168 4, 168	4,168 4,168	Am an MA	5,257 5,257	5,257 5,257		6, 132 6, 132	6,132 6,132
POST OFFICE PO		632	632	water proof states	558	558	00% and 800	1, 147	1,147
PRIVY COUNCIL PC COL ECC		I,802 859 8,841	1,802 859 8,841	011 100 100	549 975 8,030	549 975 8,030		549 1,172 7,392	549 1,172 7,392
PUBLIC WORKS PW PW-PTS CMHC NGC	5,747 5,747 2,995	7,987 1,133	5,747 5,747 10,982 1,133	8,310 8,310 3,769	8,132 1,091	8,310 8,310 11,901 1,091	7,657 7,657 4,146	9,312 1,913	7,657 7,657 13,458 1,913
EEGIONAL ECON	1,589	1, 428	3,017	3,021	1,645	4,666	6,427	2,406	8,833
SCIENCE AND T ST HEC MEC-SIR NEC-STI NSEEC SC	201,409 187,841 13,568 121,048	5,692	5,692 201,409 187,841 13,568 121,048 2,481	237, 391 221, 184 16, 207 163, 204	6,543   3,005	6,543 237,391 221,184 16,207 163,204 3,005	274,148 254,922 19,226 182,016	9,699  3,542	9,699 274,148 254,922 19,226 182,016 3,542
SECRETARY OF SECS-OL SECS-ES SECS-TRA SECS-CIT PSC		7,785 317 129 4,849 2,490 212	7,785 317 129 4,849 2,490 212		9,193 853 155 5,225 2,960	9,193 853 155 5,225 2,960		9,431 816 177 5,333 3,105	9,431 816 177 5,333 3,105
SGLICITOR GEN SGEN-ADM RCMP SUPPLY AND SE		2,485 2,485	2,485 2,485 31	130	2,691 2,691	2,691 2,691 130	 392	2,752	2,752 2,752 392
SS-SUPP STCAN TRANSPORT	14,053 14,053	863 863 122,156	14,916 14,916 122,156	14,077 14,077	898 898 148,271	14,975 14,975 148,271	14,203 14,203	907 907 229,953	15,110 15,110 229,953
TPT TPT-ADM TPT-ADM TPT-AIR TPT-AIR TPT-SUR CTC TFEASURY BOAR	27,133 7,974 9,930 5,655 3,574	541 210 229 102 2,718	27,674 8,184 9,930 5,884 3,676 2,718	27,828 9,176 10,956 7,222 474	1,410 235 1,105 70 2,456	29,238 9,411 10,956 8,327 544 2,456	28,571 11,439 11,192 5,884 56	1,390 235 1,085 70 2,745	29,961 11,674 11,192 6,969 126 2,745
TB-ADM	40 900 and	<b>10</b> ,046 10,046	10,046 10,046		11,786 11,786	11,786 11,786	400 (00) (00)	12,927 12,927	12,927 12,927
TOTAL 1	, 494, 534	397,265	1,891,799	1,732,419			1,980,722	567,398	2,548,120

BY PERFORMER, 1979-1982

PERFORMER	1979-	80	1980-	81	1981-82		
	\$	%	5	%	\$	%	
INTRAMURAL	1,202,208	( 63.5)	1,351,500	( 62.0)	1,601,696	( 62.9)	
INDUSTRY	273, 395	(14.5)	327,916	( 15.0)	380,363	( 14.9)	
UNIVERSITIES	256,061	(13.5)	319,772	( 14.7)	351,237	(13.8)	
NON-PROFIT INSTITUTIONS	25,732	( 1.4)	26,211	( 1.2)	28,412	( 1,1)	
PROVINCIAL & MUNICIPAL	68,798	( 3.6)	84,149	( 3.9)	111,674	( 4,4)	
FOREIGN	49,471	( 2.6)	53,507	( 2.5)	59,214	( 2.3)	
OTHER CANADIAN	16, 134	( 0.9)	16,256	( 0.7)	15, 524	( 0.6)	
TOTAL	1,891,799	(100.0)	2, 179, 311	(100.0)	2,548,120	(100.0)	

#### FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES TOTAL ALL COMPONENTS

#### FISCAL YEAR 1979-80

#### (\$ THOUSANDS)

4 (1 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	INTRAMEL	CANAD IAN INDUSTRY	CANADIAN UNIVERSITY	CANADIAN N-P INST	PROP. MUN. GOVERNMENTS	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	496,762 2,154 19,407 0 1,150 29,821 74,807	0 102.111 114.430 1.493 0 0	14, 621 203, 543 9, 296 0	4, 292 8 12, 650 44 0 0	0 681 55,377 0 0 9	0 2,089 0 35,246 4,498 0 0	4,907 0 1,336 271 0 0	496,762 130,855 19,407 422,582 16,752 29,821 74,807
SUB TOTAL RED	624, 101	218,034	227,460	16,986	56,058	41,833	6,514	1, 190, 986
DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS, STUDIES OPERN'S & POLICY STUDIES TESTING & STANDARDIZATION FEASIBILITY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. "EXTRAMURAL RSA CAPITAL - RSA	302,246 102,830 17,731 45,170 26,677 2,216 998 39,181 9,870 31,188	13,731 •1,449 2,537 2,755 540 33,403 501 445 0 0	2,759 1,998 194 620 527 21,576 553 0 8	998 4,782 752 713 11 186 328 976 0	3,981 2,329 14 0 0 46 6,370 0	27 2,124 204 7 104 5,102 0 0 0	2,443 1,614 140 556 112 64 3,436 1,255 0 0	326,185 117,126 21,572 49,575 28,030 36,546 31,941 48,780 9,870 31,188
SUB TOTAL RSA	578, 107	55,361	28,601	8,746	12,740	7,638	9,620	700,813
TOTAL	1,202,208	273,395	256,061	25,732	68, 798	49, 471	16, 134	1,891,799

#### FISCAL YEAR 1980-81

CANADIAN INDUSTRY CANADIAN CANADIAN UNIVERSITY N-P INST PROP. MUN. FOREIGN OTHER PERFORMERS PERFORMERS TOTAL INTRAMEL 557,312 2,463 25,786 0 1,294 36,710 80,402 IN-HOUSE R&D R&D CONTRACTS SUPPORTING CONTRACTS R&D GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTRAMURAL R&D CAPITAL - R&D 557,312 158,570 25,786 511,143 21,543 36,710 80,402 0 5,439 1,644 247 0 0 986 125, 196 17,074 5,196 2,216 136.614 2,346 0 11,918 16 0 0 254,444 12,628 R 0 37,179 5,012 69,344 0 0 0 ñ SUB TOTAL R&D 703,967 264, 156 284,146 17,130 70,330 44, 407 7,330 1,391,466 370, 387 128, 619 32, 346 50, 169 29, 210 40, 108 38, 481 52, 833 11, 479 34, 213 DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS. STUDIES OPERN'S & POLICY STUDIES TESTING & STANDARDIZATION FEASIBILITY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA 343,686 111,406 27,850 44,285 27,193 2,588 1,171 43,582 11,479 34,213 1,346 4,373 906 875 71 260 75 1,175 0 16,051 2,115 2,655 4,127 1,177 36,089 880 666 2,471 2,797 412 360 570 23 2,267 325 42 110 479 2,464 1,733 198 400 89 421 2,443 1,098 4,346 0 0 10 5,615 0 28,048 5,854 0 0 0 0 Ř SUB TOTAL RSA 647,533 63,760 35,626 9,081 13/819 9,100 8,926 787,845 TOTAL 1,351,500 327,916 319.772 26.211 84, 149 53,507 16,256 2,179,311

(\$ THOUSANDS)

#### FISCAL YEAR 1981-82

	INTRAMEL	CANADIAN INDUSTRY	CANADIAN UNIVERSITY	CANADIAN N-P INST	PROP. MUN. GOVERNMENTS	FORE IGH PERFORMERS	OTHER PERFORMERS	TOTAL
IN-HOUSE RED FAL CONTRACTS SUPPORTING CONTRACTS FAL GRANTS FIL EARCH FELLOWSHIPS ADMIN. EXTRAMURAL RED CAPITAL - RED	651,983 2,149 29,354 0 1,500 41,573 92,146	143,027 162,618 2,732 0 0	2 18,023 0 272,079 18,179 0 0	5,673 9 13,173 0 0 0	1.651 91.202 0 0	2,307 2,307 39,481 5,445 0 8	5,991 1,616 242 0 0	651,983 178,821 29,354 580,169 28,098 41,573 92,146
BUB TOTAL RED	818,705	308,377	308,281	18,846	92,853	47,233	7,849	1,602,144
DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS. STUDIES UFERN'S & POLICY STUDIES TESTING & STANDARDIZATION FEASIBILITY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA	435,075 135,453 28,388 58,577 29,968 3,456 1,238 43,309 13,257 34,270	17,494 2,398 3,666 4,347 1,470 41,094 823 694 0	2,719 3,359 687 792 353 33,863 736 736 0	1, 198 4, 551 1, 504 695 76 280 55 1, 207 0	4,720 8,104 0 50 74 5,873 0 0	26 4,137 312 41 115 471 6,879 0 0	3,869 1,613 205 649 10 430 533 1,166 0	464, 301 159, 615 34, 682 64, 836 32, 431 46, 134 43, 465 52, 985 52, 985 13, 257 34, 270
SUB TOTAL RSA	782, 991	71,986	42,956	9,566	18,821	11,981	7.675	945.976
TOTAL	1,601.696	380.363	351,237	28.412	111,674	59.214	15,524	2,548,120

BY DEPARTMENT OR AGENCY

		1979-80			1980-81		9 Ma 💭 🕮 🥮 Ma dad wat Mill Ma Mil dat 1	1981-82	
OR AGENCY	R&D	RSA	* TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGR-RI AGR-CGC CDC CLFB	134,041  128,019 4,686 1,403 62	4,776	3,625 132,795 4,686 3,314 79	136,360 5,673 1,503 96	3,819 3,837 2,290	3, 819 140, 197 5, 673 3, 793	110	4,312 2,456 2,862	4,312 154,762 7,556 4,515
COMM-COMM COMM-AC CBC CRTC NFB NLIB NMUS PA SSHRC	54,974 542 298 2,837 21,293	3,652 582 3,348 201 14,730 47,225 9,320 15,288	59,208 58,626 582 3,348 542 499 14,730 50,062 9,320 36,581	66,325 66,325 412 2,891 24,857	5,251 4,588 663 3,654 17,179 50,447 9,900 17,784	71,576 70,913 663 3,654 776 636 17,179 53,338 9,900 42,641	51,951 51,951 679 456 5,759 27,033	5,593 4,834 759 3,974 242 21,572 50,371 12,009 18,568	57,544 56,785 759 3,974 679 698 21,572 56,130 12,009 45,601
CONSUMER HND	1, 822 1, 163 332 327	10,366 433	12, 188 433	2,067 1,439 272 356	11,917	13,984 489	1,893	13, 157 649 1, 850	15,050 649 3,401 10,238 762
		1,600	1,600	and and the same	1,806	1,806		2,199	2,199
	1,292	7,911 7,911 5,800	9,203 9,203 5,800	1,528	8,001 8,001 7,758	9,529 9,529 7,758	1,571 1,571	8,479 8,479 8,371	10,050 10,050 8,371
EMR EMR-ENER EMR-MES AECB AECL NEB	124, 897 58, 639 66, 258 575 75, 410	37,783 1,852 35,931 13,536 1,781	60,491 102,189	162,342 87,652 74,690 768 83,084	15,471	200,194 90,020 110,174 768 98,555 1,890	230,587 147,487 83,100 851 93,267	45,160 3,636 41,524 18,249 2,089	275,747 151,123 124,624 851 111,516 2,089
ENV-ADM	70,583 417 69,743 4,316 11,657 17,650 36,120 423	149,497 1.090 137,364 2,759 91,180 39,759 3,666 11,043	207,107 7,075 102,837	81,793 399 80,928 5,163 12,114 17,826 45,825 466	167,303 1,441 153,716 2,971 105,589 40,656 4,500 12,146	234,644 8,134 117,703 58,482	95,149 432 94,206 5,348 13,877 21,277 53,705 511	191,640 1,497 176,781 2,822 120,060 49,311 4,588 13,362	286,789 1,929 270,987 8,170 133,936 70,588 58,293 13,873
EA-CIA CIDA IDRC FINANCE		5,028 5,028 26,485 5,968	5,028 5,028 37,445 36,479	10,080 31,426	5,512 5,512 27,037 7,608	5,512 5,512 37,117 39,034	11,245 36,751	6,176 6,176 30,291 8,699	6,176 6,176 41,536 45,450
FIN FIN-FEP		8,114	8,114		9, <b>507</b> 9,507	9,507	dati yan mili yan yan yan	11.001	11,001 11,001
FISHERIES AND F&O F&O-FM INDIAN AFFAIR	55,301 55,301	57,364 57,364	112,665	57,509 57,509	58,894 58,894	116,403 116,403	64,059 64,059	55,776 55,776	119,835 119,835
IAND IAND-IIA IAND-NA	2,857 260 2,597	3,159 1,428 1,731	6,016 1,688 4,328	3,149 267 2,882	3,357 1,438 1,919	6,506 1,705 4,801	3,176 286 2,890	3,854 1,526 2,328	7,030 1,812 5,218
INDUSTRY TRAD ITC ITC-TI ITC-TOUR ITC-GO	E HND COMP 82,751 80,712 247 1,792	710 612 98	83,461 81,324 345 1,792	98,877 97,690 247 940	1,037 939 98	99,914 98,629 345 940	126,008 125,207 271 530	1,044 936 108	127,052 126,143 379 530

#### BY DEFARTMENT OR AGENCY

(\$ THOUSANDS)

		1979-80			1980-81			1981-82	
OR AGENCY		RSA		R&D	RSA	TOTAL	R&D	RSA	TOTAL
	2,126 2,126  1,729	2,042 713 1,329 202 599	4, 168 2, 839 1, 329 202 2, 328	2,381 2,381  1,777	2,413 861 1,552 230 845	4,794 3,242 1,552 230 2,622	3,208 3,208  2,166	3,107 1,007 2,100 255 1,136	6,315 4,215 2,100 255 3,302
LABOUR LAB		2,757	3,225	603	3,210	3,813	662	3,529	4, 191
	85,374 85,374	1,761 1,761	87,135 87,135	96,591 96,591	1,901 1,901	98,492 98,492	108,146 108,146	2,087 2,087	110,233 110,233
NHW-HP NHW-IS MRC	22,244 1,410 12,445 135 8,254 67,835	35,756 3,877 4,077 27,315 487 2,222	58,000 5,287 16,522 135 35,569 487 70,057	28,347 1,635 13,716 1,440 11,556  79,467	37,888 4,805 4,495 28,057 531 2,564	66, 235 6, 440 18, 211 1, 440 39, 613 531 82, 031	31,040 1,660 13,368 1,621 14,391  85,785	43,035 5,610 4,406 32,489 530 2,805	74,075 7,270 17,774 1,621 46,880 530 88,590
NREV-TAX	1,489 1,489	2,679	4, 168 4, 168	1,436 1,436	3,821 3,821	5,257 5,257	1, 584 1, 584	4, 548 4, 548	6, 132 6, 132
POST OFFICE PO PRIVY COUNCIL	243	389	632	258	300	558	573	574	1,147
PC COL ECC PUBLIC WORKS	1,796 7,325	859 1,516	1,802 859 8,841	549 7,019	975 1,011	549 975 8,030	549 6,440	1,172	549 1,172 7,392
PW PW-PTS CMHC NCC	3,551 3,551 4,430 638	2,196 2,196 6,552 495	5,747 5,747 10,982 1,133	4,260 4,260 4,280 661	4,050 4,050 7,621 430	8,310 8,310 11,901 1,091	1,408 1,408 4,708 1,331	6,249 6,249 8,750 582	7,657 7,657 13,458 1,913
REGIONAL ECONO CEE SCIENCE AND TE	790	2,227	3,017	800	3,866	4,666	. 972	7,861	8,833
ST Nac	170,607 170,607 110,300 1,245	5,692 30,802 17,234 13,568 10,748 1,236	5,692 201,409 187,841 13,568 121,048 2,481	201, 107 201, 107 147, 028 1, 494	6,543 36,284 20,077 16,207 16,176 1,511	6,543 237,391 221,184 16,207 163,204 3,005	232,072 232,072 159,908 1,830	9,699 42,076 22,850 19,226 22,108 1,712	9,699 274,148 254,922 19,226 182,016 3,542
SECS-OL SECS-ES SECS-ES SECS-TRA SECS-CIT PSC	4,995 246 2,660 2,089 212	2,790 71 129 2,189 401	7,785 317 129 4,849 2,490 212	5,831 480 2,854 2,497	3, 362 373 155 2, 371 463	9,193 853 155 5,225 2,960	5,899 509 3,107 2,283	3, 532 307 177 2, 226 822	9,431 816 177 5,333 3,105
SOLICITOR GENE SGEN SGEN-ADM DCMP	1,771 1,771 31	714 714	2,485 2,485 31	1,725 1,725 130	966 966	2,691 2,691 130	1,957 1,957 342	795 795 50	2,752 2,752 392
SUPPLY AND SEP	12,146 12,146 12,146 3,499	2,770 2,770 118,657	14,916 14,916 122,156	12,166 12,166 4,284	2,809 2,809 143,987	14,975 14,975 148,271	12,417 12,417 6,463	2,693 2,693 223,490	15,110 15,110 229,953
TPT-ADM TPT-MAR TPT-AIR TPT-SUR CTC	13,861 6,998 3,518 3,188 157 1,095	13,813 1,186 6,412 2,696 3,519 1,623	8,184 9,930 5,884 3,676	16,583 8,093 5,363 3,002 125 1,060	12,655 1,318 5,593 5,325 419 1,396	29,238 9,411 10,956 8,327 544 2,456	5,838 3,042	10,545 1,263 5,354 3,927 1 1,650	29,961 11,674 11,192 6,969 126 2,745
TRASURY BOARI	113	9,933 9,933	10,046 10,046		11,673 11,673	11,786 11,786	113 113	12,814 12,814	12,927 12,927
TOTAL 1.				1,391,466	787,845	2,179,311	1,602,144	945,976	2,548,120

# FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

DEDADTMUT		1979-80			1980-81	an an an all als as he had be an a		1981-82	10 m
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE	133,805	10,136	143,941	141,737	11,145	152,882	161,393	8,752	170, 145
AGR-ADM AGR-DEV AGR-RI AGR-CGC CDC CLFB	3, 134 123, 153 4, 686 2, 832 72	491 9,642 482 7	3,625 132,795 4,686 3,314 79	3,212 129,663 5,673 3,189 77	607 10,534 604 42	3,819 140,197 5,673 3,793 119	3,729 146,596 7,556 3,512 91	583 8,166 1,003 45	4,312 154,762 7,556 4,515 136
COMMUNICATION COMM COMM-COMM COMM-AC CBC CRTC CRTC	NS 42,168 41,779 389 1,597 477 490 14,712 48,223 9,320 3,615	17,040 16,847 193 1,751 65 9,839 32,966	59,208 58,626 582 3,348 542 499	47,480 47,147 333	24,096 23,766 330 2,007 110 13	71, 576 70, 913 663 3, 654 776 666 17, 179 53, 338 9, 900 42, 641	42,238 41,739 499	15, 306 15, 046 260 2,221 160 15 36 9, 949 41, 225	57, 544 56, 785 759 3, 974 679 698 21, 572 56, 130 12, 009 45, 601
CCA CCA-ADM CCA-CON CCA-CON	11,119 409 2,121 8,230 359	1,069 24 546 211 288	12, 188 433 2, 667 8, 441 647	12,946 489 2,427 9,639 391	1,038  690 I60 188	13,984 489 3,117 9,799 579	13,859 584 2,660 10,238 377	1, 191 65 741 385	15,050 649 3,401 10,238 762
ED EMPLOYMENT &	1,400	200 N	1,600	I,656	150	I,806	2,049	150	2,199
EI EI-ADM CEIC ENERGY MINES	8,372 8,372 4,280	831 831 1,520	9,203 9,203 5,800	8,638 8,638 4,573	891 891 3,185	9,529 9,529 7,758	9,161 9,161 4,995	889 889 3,376	10,050 10,050 8,371
EMR EMR-ENER EMR-MES AECB AECL NEB	89,294 2,210	73,386 58,281 15,105 416 21,536	162,680 60,491 102,189 575 88,946 1,781	99,921 5,859 94,062 200 74,720 1,890	100,273 84,161 16,112 568 23,835	200,194 90,020 110,174 768 98,555 1,890	146,074 38,599 107,475 226 86,005 2,089	129,673 112,524 17,149 625 25,511	275,747 151,123 124,624 851 111,516 2,089
ENVIRONMENT ENV-ADM ENV-ES ENV-EPS ENV-AES ENV-ACS ENV-FOR ENV-PC EXTERNAL AFF6	10,868	24,951 24,353 2,683 3,787 6,205 11,678 598	39,786	219,821 1,840 206,026 4,816 113,534 52,133 35,543 11,955	29,275 28,618 3,318 4,169 6,349 14,782 657	249,096 1,840 234,644 8,134 117,703 58,482 50,325 12,612	253, 494 1, 929 238, 415 4, 933 129, 130 62, 925 41, 427 13, 150	33, 295 32, 572 3, 237 4, 806 7, 663 16, 866 723	286,789 1,929 270,987 8,170 133,936 70,588 58,293 13,873
EA EA-CIA CIDA IDRC	3,618 3,618 1,964 11,058	1,410 1,410 35,481 25,421	5,028 5,028 37,445 36,479	3,900 3,900 2,073 12,506	1,612 1,612 35,044 26,528	5,512 5,512 37,117 39,034	4,414 4,414 2,378 14,473	1,762 1,762 39,158 30,977	6,176 6,176 41,536 45,450
FINANCE FIN FIN-FEP	8,114 8,114		8,114 8,114	9,507 9,507	ata Apo tao	9,507 9,507	11,001 11,001		11,001 11,001
FISHERIES ANI F&O F&O-FM	102,888 102,888	9,777 9,777	112,665	107,087 107,087	9,316 9,316	116,403 116,403	107,089 107,089	12,746 12,746	119,835 119,835
INDIAN AFFAIF IAND IAND-IIA IAND-NA INDUSTRY TRAI	3,073 100 2,973	2,943 1,588 1,355	2MENT 6,016 1,688 4,328	3,417 105 3,312	3,089 1,600 1,489	6,506 1,705 4,801	3,662 112 3,550	3,368 1,700 1,668	7,030 1,812 5,218
ITC ITC-TI ITC-TOUR ITC-GO	6,898 6,637 189 72	76,563 74,687 156 1,720	83,461 81,324 345 1,792	9,891 9,652 189 50	90,023 88,977 156 890	99,914 98,629 345 940	10,880 10,617 208 55	116, 172 115, 526 171 475	127,052 126,143 379 530

# FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

#### BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

		1979-80	ante anno ante año Mile año des año Mile any ge	t till men slav sålt men såde fört fört för såde såde me	1980-81		the same state with with with their same area with which do	1981-82	for more more fully most using most states when
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE JUST JUST-ADM JUST-CUIO CHRC LRC LODOUR	2,242 913 1,329 202 1,863	1,926 1,926  465	4, 168 2, 839 1, 329 202 2, 328	2,747 1,195 1,552 230 1,962	2, 047 2, 047  660	4,794 3,242 1,552 230 2,622	3,629 1,529 2,100 255 2,434	2, 686 2, 686  868	6,315 4,215 2,100 255 3,302
LABOUR LAB NATIONAL DEFE	3,015	210	3, 225	3,446	367	3,813	3,790	401	4, 191
NDEF NDEF-SER NATIONAL HEAL	60,246 60,246	26,889 26,889	87,135 87,135	64, 909 64, 909	33, 583 33, 583	98, 492 98, 492	70,521 70,521	39,712 39,712	110,233 110,233
NHN NHW-ADM NHW-HSS NHW-HSS NHW-HS NHW-IS MRC NATIONAL REVE	40,817 4,217 1,554 135 34,424 487 1,381	17, 183 1, 070 14, 968 1, 145 68, 676	58,000 5,287 16,522 135 35,569 487 70,057	47,016 4,870 2,114 1,440 38,061 531 1,556	19,219 1,570 16,097 1,552 80,475	66,235 6,440 18,211 1,440 39,613 531 82,031	54,638 5,200 2,026 1,621 45,261 530 1,747	19, 437 2, 070 15, 748 1, 619 86, 843	74,075 7,270 17,774 1,621 46,880 530 88,590
NREV-TAX	4,168 4,168		4,168 4,168	5,257 5,257	nan man dan man dina	5,257 5,257	6,132 6,132	aliti aan am	6,132 6,132
POST OFFICE PO PRIVY COUNCIL	566	66	632	484	74	558	797	350	1,147
PC COL ECC	6 859 6,952	1,796	1,802 859 8,841	975 7,497	549 533	549 975 8,030	1,172 6,902	549 490	549 1,172 7,392
PUBLIC WORKS PW PW-PTS CMHC NCC POCUSE FORM	3,077 3,077 6,386 1,133	2,670 2,670 4,596	5,747 5,747 10,982 1,133	3,944 3,944 7,620 1,091	4,366 4,366 4,281	8,310 8,310 11,901 1,091	5,511 5,511 8,382 1,913	2,146 2,146 5,076	7,657 7,657 13,458 1,913
REGIONAL ECON REE SCIENCE AND T	759	2,258	3,017	748	3,918	4, 666	912	7,921	8,833
ST NRC	5, 156 138, 353 124, 785 13, 568 2, 273 2, 113	536 63,056 63,056 118,775 368	5,692 201,409 187,841 13,568 121,048 2,481	5,973 163,522 147,315 16,207 3,697 2,545	570 73,869 73,869 159,507 460	6,543 237,391 221,184 16,207 163,204 3,005	7,410 187,614 168,454 19,160 4,312 2,934	2,289 86,534 86,468 66 177,704 608	9,699 274,148 254,922 19,226 182,016 3,542
SECS SECS-OL SECS-ES SECS-TRA SECS-CIT PSC	4,317 36 129 4,083 69 212	3,468 281 766 2,421	7,785 317 129 4,849 2,490 212	4,758 71 155 4,459 73	4,435 782 766 2,887	9,193 853 155 5,225 2,960	4,888 91 177 4,543 77	4, 543 725 790 3, 028	9,431 816 177 5,333 3,105
SOLICITOR GEN SGEN SGEN-ADM RCMP SUPPLY AND SE	873 873	1,612 1,612 31	2,485 2,485 31	1,114 1,114	1,577 1,577 130	2,691 2,691 130	870 870 264	1,882 1,882 128	2,752 2,752 392
SS-SUPP STCAN	91 91 122,125	14, 825 14, 825 31	14,916 14,916 122,156	100 100 148,240	14,875 14,875 31	1 <b>4, 9</b> 75 14, 975 148, 271	110 110 229,919	15,000 15,000 34	15,110 15,110 229,953
TRANSPORT TPT-ADM TPT-ADM TPT-AIR TPT-AIR TPT-SUR CTC TREASURY BOAR	17,820 803 9,930 3,461 3,626 2,234	9,854 7,381 2,423 50 484	27,674 8,184 9,930 5,884 3,676 2,718	18,587 1,512 10,956 5,625 494 1,940	10,651 7,899 2,702 50 516	29,238 9,411 10,956 8,327 544 2,456	16,937 1,350 11,142 4,369 76 2,261	13,024 10,324 50 2,600 50 484	29,961 11,674 11,192 6,969 126 2,745
TB TB-ADM	9,933 9,933	113 113	<b>10,04</b> 6 10,046	11,673 11,673	113 113	11,7 <b>8</b> 6 11,786	12,814 12,814	113 113	12,927 12,927
TOTAL 1	,202,208	689., 591	1,891,799	1,351,500	827,811	2,179,311	1,601,696	946, 424	2,548,120

INTRAMURAL, BY DEPARTMENT OR AGENCY

DEPARTMENT	ARTMENT 1979-80				1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGR-RI AGR-CGC CDC CLFB	4,686 1,336 55	6,481 3,134 1,851 1,496 17	133,805 3,134 123,153 4,686 2,832 72	134,930 127,754 5,673 1,503 59	6,807 3,212 1,909 1,686 18	141,737 3.212 129,663 5,673 3,189 77	153,393 144,184 7,556 1,653 70	8,000 3,729 2,412 1,859 21	161,393 3,729 146,556 7,556 3,512 91
COMM COMM-COMM CCMM-AC CBC CRTC NFB NLIB NMUS PA SSHRC	38,711 38,711 477 298 2,571 1,869	3,457 3,068 389 1,597 192 14,712 37,652 9,320 1,746	42,168 41,779 389 1,597 477 490 14,712 40,223 9,220 3,615	2,613	4,857 3,724 333 1,647 211 17,156 41,223 9,980 1,959	47, 480 47, 147 333 1, 647 666 623 17, 156 43, 836 9, 900 4, 801	519 456 5,458	1 75%	42,238 41,739 499 1,753 519 683 21,536 46,181 12,089 4,376
CONSUMER AND CCA CCA-ADM CCA-CON CCA-COR CCA-CICP ECONOMIC DEVEL	1,065 617 121 327	10,054	11,119 409 2,121 8,230 359	1,217 749 112 356	11,729 489 1,678 9,527 35	12,946 489 2,427 9,639 391	1, 152 810 342	12,707 584 1,850 10,238 35	13,859 584 2,660 10,238 377
ED EMPLOYMENT &			1,400		1,656	1,656		2,049	2,849
EI-ADM CEIC	1,231	7,141 7,141 4,280	8,372 8,372 4,280	1,465	7,173 7,173 4,573	8,638 8,638 4,573	1,560 1,560	7,601 7,601 4,995	9,161 9,161 4,995
EMR-ENER EMR-MES AECB AECL NEB	55,625	33,669 1,412 32,257 3,501 1,781	89,294 2,210 87,084 159 67,410 1,781	66,987 4,081 62,906 200 70,898	32,934 1,778 31,156 3,822 1,890	99,921 5,859 94,062 200 74,720 1,830	105,809 35,683 70,126 226 81,676	48,265 2,916 37,349 4,329 2,089	146,074 38,599 107,475 226 86,095 2,089
ENV-ES ENV-EPS ENV-ECS ENV-ECS ENV-FOR ENV-PC		140,798 1,090 128,939 2,469 87,949 34,855 3,666 10,769	1,507 182,754 4,392 99,050 51,204	61,839 399 61,331 2,148 11,604 16,536 31,043 109	157,982 1,441 144,695 2,668 101,930 35,597 4,500 11,846	219,821 1,840 206,026 4,816 113,534 52,133 35,543 11,955	19,770 36,839	180,891 1,497 166,363 2,535 116,085 43,155 4,588 13,031	253, 494 1, 929 238, 415 4, 933 129, 138 62, 925 41, 427 13, 158
EXTERNAL AFFA EA EA-CIA CIDA IDRC	458 6, 841	3,618 3,618 1,506 4,217	3,618 3,618 1,964 11,058	405 7,133	3,900 3,900 1,668 5,373	3,900 3,900 2,073 12,506	449	4,414 4,414 1,929 6,149	4, 414 4, 414 2, 378 14, 473
FINAMCE FIN FIN-FEP		8,114 8,114	8,114 8,114		9,507 9,507	9.507 9,507	000 000 000	11,001 11,001	11,201 11,601
FISHERIES AND F&O F&O-FM	49,000 49,000	53,888 53,888	102,888 102,888	51,034 51,034	56,053 56,053	107,087 107,087	55,773 55,773	51,316 51,316	107,089 107,089
INDIAN AFFAIR IAND IAND-IIA IAND-NA	1,498 25 1,473	1,575 75 1,500	2MENT 3,073 100 2,973	1,623 25 1,598	1,794 80 1,714	3,417 105 3,312	1,692 27 1,665	1,970 85 1,885	3,662 112 3,550
INDUSTRY TRADI ITC ITC-TI ITC-TOUR ITC-GO	E HND COMM 6,785 6,622 91 72	113 15 98	6,898 6,637 189 72	9,773 9,632 91 50	118 20 98	9,891 9,652 189 50	10,747 10,592 100 55	133 25 108	10,880 10,617 208 55

INTRAMURAL, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
USTICE									
JUST	586	1,656	2,242	833	1,914	2,747	1,048	2,581	3,629
JUST-ADM JUST-CUIO	586	327	913	833	362	1,195	1,048	481	1,529
CHRC		202	202		230	230	-	255	255
LRC .ABOUR	1,552	311	1,863	1,588	374	1,962	1,975	459	2,434
LAB	354	2,661	3,015	411	3,035	3,446	452	3,338	3,790
ATIONAL DEFEN	ICE 58,572	1,674	60,246	63,133	1,776	64,909	68, 597	1,924	70,521
NDEF-SER	58,572	1,674	60,246	63,133	1,776	64,909	68, 597	1,924	70,521
ATIONAL HEALT	10,522	.FARE 30, 295	40,817	15,286	31,730	47,016	18, 377	36,261	54,638
NHW-ADM	1.410	2,807	4,217	1,635	3,235	4,870	1,660	3,540	5,200
NHU-HSS NHU-MS	1,047	507	1,554	1,197	917	2,114	1,271	755	2,026
NHW-HP	7,930	26,494	34,424	11,014	27,047	38,061	13,825	31,436	45,261
NHW-IS		487	487		531	531		530	530
MRC NATIONAL REVEN	1.272	109	1,381	1,435	121	1,556	1,608	139	1,747
NREV	1,489	2,679	4,168	1,436	3,821	5,257	1,584	4,548	6,132
NREV-TAX POST OFFICE	1,489	2,679	4, 168	1,436	3,821	5,257	1,584	4,548	6,132
PO PRIVY COUNCIL	180	386	566	210	274	484	223	574	797
PC		6	6	strong databa fandar		0		-	0
COL ECC	6,108	859 844	859 6,952	6,486	975 1,011	975 7,497	5,950	1,172	1,172
PUBLIC WORKS	0,100	0.444	07002	0,400	1,011	13401	57330	232	01902
PW-PTS	1,641	1,436	3,077	1,318	2,626	3,944	353	5,158	5,511
CMHC	1,641	1,436	3,077 6,386	1,318 2,790	2,626	3,944	353 3,069	5,158	5,511
NCC	638	495	1,133	661	430	1,091	1,331	582	1,913
REGIONAL ECONC REE	759	45 IUN	759	748		748	912	644 aug 644	912
CLENCE AND TH	ECHNOLOGY	E 150	E 1EC		F 077			7 110	
ST	109,092	5,156 29,261	5,156	129,508	5,973	5,973 163,522	148,355	7,410	7,410
NRC-SIR	109,092	15,693	124,785	129,508	17,807	147,315	148,355	20,099	168,454
NRC-STI NSERC	1,818	13, 568 455	13,568	2,957	16,207 740	16,207 3,697	3,451	19,160 861	19,160
SC	877	1,236	2,113	1,034	1,511	2,545	1,222	1,712	2,934
SECRETARY OF S	2,184	2,133	4,317	2,378	2,380	4,758	2,607	2,281	4, 888
SECS-OL		36	36	C, JTO	71		27001	91	4,000
SECS-ES		129	129		155	155		177	177
SECS-TRA SECS-CIT	2,184	1,899 69	4,083	2,378	2,081 73	4, 459 73	2,607	1,936	4,543
PSC	212		212			Ø			Ó
SOLICITOR GENI SGEN	ERAL 323	550	873	484	710	1,114	322	548	870
SGEN-ADM	323	550	873	404	710	1,114	322	548	870
RCMP Supply and see	PUTCES		0	disk sees who		0	214	50	264
SS	74 74	17	91	81	19	100	90	20	110
SS-SUPP STCAN	74	110 626	122 125	81	147 050	100	90	207 20	110
TRANSPORT	3,433	118,626	122, 125	4,284	143,956	148,240	6,463	223,456	229,919
TPT	7,250	10,570	17,820	9,627	8,960	18,587	9,835	7,052	16,937
TPT-ADM TPT-MAR	591 3,518	6,412	803 9,930	1,287	225 5,593	1,512	1,130	220 5,354	1,350
TPT-AIR	3,034	427	3,461	2,902	2,723	5,625	2,892	1.477	4, 369
TPT-SUR CTC	107 729	3,519	3,626 2,234	75 640	419	494	75	1 572	76
REASURY BOARI				040		1,940	729	1,532	2,261
TB TB-ADM	and over the	9,933 9,933	9,9 <b>33</b> 9,933	dag bys. and	11,673	11,673 11,673	2000 Adda Garra	12,814 12,814	12,814
			1,202,208	703,967	the first way have been been and some some	1,351,500	818,705		

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

#### FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES INDUSTRY, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT OR		1979-80			1980-81			1981-82	
AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTA
GRICULTURE							ten ten dan una dar ma ver ven pay ma (2) d	• We we will be also very alle des mas	alle and making you you do ado
AGR-DEV	2,122	491 491	2,613	2,398	607 607	2,997	2,278	583	2,86
AGR-RI CDC	2,122		2,122	2,390		607 2,390	2,278	583	2,27
CLFB			44 0	and that also	200 5	200		300 5	30
OMMUNICATIONS COMM	14,021	669	14,690	19,418	1,104	20,522	13,248	965	14,21
COMM~COMM COMM~AC	14,021	529 140	14,550	19,418	809 295	20,227	13,248	755 210	14,09
CBC CRTC	16	1,751	1,751 16	15	2,007	2,007		2,221	2,22
NFB		9	9 444		13 665	15 13 665		10 693	69
ONSUMER AND C		AFFAIRS 95	325						
CCA-CON	97		97	204	90	294 124	134 134	135	26
CCA-COR CCA-CICP	133	95	133 95	80	90	80 90		135	13
CONOMIC DEVEL	OPMENT	N							
EI EI-ADM	58 58	770 770	828	77	718	725 725	77	878	88
CEIC		1,520	1,520		3, 128	3,128		878 3,315	3,31
NERGY MINES &	9,878	3.634	13,512	22,33B	4,638	26,976	30, 305	4,603	34,98
EMR-ENER EMR-MES	3,398 6,480	3, 194	3,838 9,674	15,731 6,607	590 4,048	16,321	21,800 8,505	720	22,52
AECB	9,777	9,980	116 19,757	10.409	11,611	22,020	199 9,818	13,893	23,71
NVIRONMENT ENV	10,394	2,039	12.433	12,383	2,448	14,831	13,202	2,777	
ENV-ES ENV-EPS	18, 252	1,980	12,232	12,227	2,383	14,610	13,030	2,706	15,97 15,73
ENV-AES	1.750	466	1,975	2,265	814	2.510 814	2,200	24Ø 855	2,44 85
ENV-ECS ENV-FOR	546 7,956	1,289	1,835 7,956	538 9,424	1,324	1,862 9,424	655 10,175	1.611	2,26
ENV-PC XTERNAL AFFAI	1.42 RS	59	201	156	65	221	172	71	24
CIDA INANCE	-	22,341	22,341		22,788	22,788		25,523	25,52
ISHERIES AND	OCEANS 3,286	1,952	E 270	7 750	1,965	E 216	8 070	7 407	0.00
F&Ø-FM	3,286	1,952	5,23B 5,23B	3,350 3,350	1,965	5,315	5,238 5,238	3,423	8,66
NDIAN A <b>FFAIRS</b> IAND	220	RN DEVELO	THENT 558	282	307	589	279	423	70
IAND-IIA IAND-NA	67 153	117	184 374	74 208	122	196 393	79 200	130 293	20
NDUSTRY TRADE		ERCE	74,219	85,818	12	85,830	110,702	13	110.71
ITC-TI ITC-TOUR	72,782	11	72,793	85,212	12	85,224	110,431 171	13	118.44
.ITC-GO	1.270		1,270	450		450	100		17
USTICE	100 mm - 000	245	245		400	400		575	57
ABOUR LAB	30	10	40	45	75	120	49	82	13
ATIONAL DEFEN NDEF	CE 23,250	52	23,302	28,819	72	28,891	34.640	85	34,72
NDEF-SER ATIONAL HEALT	23,250 23,250	52	23,302	28,819	72	28, 891	34,640	85	34,72
NHW-HSS	59	459 79	518	456	682	1,138	670	610	1,28
NHW-HP	19 40	380	98 420	250 206	138 544	398 750	455 215	56 554	51 765
ATIONAL REVEN OST OFFICE									
PO RIVY COUNCIL	48		48	33	23	56	345		34
ECC UBLIC WORKS	412	645	1,057	296	*** ***	296	300		30
PW PW-PTS	1,815	545 545	2,360	2,937	1,125	4,862	1,045	988	1,95
CMHC EGIONAL ECONO	1,563	838	2,401	1,262	1,442	2,784	1,388	1,587	2,97
REE	31	302	333	52	650	702	68	1,245	1,30
CIENCE AND TE NRC	48, 409 48, 409	353	48,762	53, 332 53, 332	964 964	54, 296	61,022	1,152	62, 17
NRC-SIR NSERC	48,409 1,493	353	48,762 48,762 1,493	53,332 2,346	964	54, 296 54, 296 2, 346		1,152	62,17
NSERC SC ECRETARY OF S	TATE		12	30	With size was	30	2,732		7
SECS	27	249	276 4 272		302	302	die an an	558	550
SECS-CIT OLICITOR GENE SGEN	27	245	272		302	302 302 0		208 350	20
SGEN	418	61	479	342	66	408	378	57	43
SGEN-ADM RCMP	418	61	479 479 25	342 95		<b>408</b> 408 95	378 103	57	435
UPPLY AND SER	NICES	2, 166							
SS-SUPP RANSPORT	10,323			10,274 10,274	2,230	12,504	10,478	2,144 2,144	12,62
TPT	5,534	3,230	8,764	6,811	3,327	10,138	9,481	3, 113	12,59
TPT-MAR	5,424	3,230	6,398	6,806	1,093	7,899 Ø	9,281 50	test max con	56
TPT-ADM TPT-MAR TPT-AIR CTC	110	2,256	2,366	5 231	2,234 96	2,239 327	150	2,070	2,220
REASURY BOARD							100	110	
OTAL	218,034	55,361	273,395	264, 156	63,760	327:916	308, 377	71,986	380,36

#### NATURAL AND HUMAN SCIENCES

#### FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

UNIVERSITY, BY DEPARTMENT OR AGENCY (\$ THOUSANDS)

1981-82 1988-81 1979-90 DEPARTMENT RSA TOTOT AGENCY RR.D RSA TOTAL Re.D RSA TOTAL Den AGRICULTURE 3,751 3,751 100 17 3,662 3,662 300 25 25 300 3,479 3,479 3,751 3,637 AGE AGR-RI CDC CLFB 100 20 5 17 COMMUNICATIONS 1.073 COMMUNICATIC COMM COMM-COMM COMM-AC CRTC RTC NFB NMUS 49 32 17 849 832 17 0 975 975 58 33 25 1,033 975 975 98 58 40 800 800 25 40 40 49 553 697 10, 649 697 736 11,075 553 736 NMUS SSHRC 19,424 8,689 CONSUMER AND CORPORATE AFFAIRS 91 6 24.788 28,113 22.815 33. 464 CONSUMER HIND CORPORATE HE CCA-CON 20 CCA-CON 20 CCA-COR 71 CCA-CICP ---ECONOMIC DEVELOPMENT EMPLOYMENT & IMMIGRATION 73 25 40 8 27 97 65 8 100 20 71 6 25 0 8 100 10 0 EI-ADM 1.0 000 18 20 20 CEIC ENERGY MINES & RESOURCES EMR 1,497 EMR~ENER 5 EMR~MES 1,492 1.507 1,811 130 1,681 302 93 1.600 97 356 1,853 1,908 130 1,377 332 1,908 130 97 93 1,492 356 1.848 AECB 27 1,518 1.545 1.320 55 1.309 38 1,347 ENVIRONMENT 2,967 2,890 312 896 729 953 77 3,171 3,006 315 733 763 1,275 85 2, 225 2, 156 312 413 478 953 2,556 2,479 315 413 476 1,275 77 3,075 2,991 315 732 526 1,418 3,923 3,829 315 1,222 874 615 687 848 838 742 ENV-ES ENV-ES ENV-AES ENV-AES ENV-FOR ENV-FOR ENV-FOR ENV-FOR 483 320 490 348 1,418 10 8 69 8 94 1.620 1.620 2.529 115 1,620 1,620 2,929 1,009 1,300 1,300 2,089 400 1,480 1.480 1,300 EA EA-CIA CIDA IDRC 1,300 1,300 2,364 387 350 437 1,480 2,649 437 1,480 2,299 275 894 FINANCE FISHERIES AND OCEANS F&O 1.193 F&O-FM 1.193 F&O-FM 1.193 INONCE 108 1.301 1,220 108 1,328 1, 197 109 1,306 109 INDIAN AFFAIRS & NORTHERN DEVELOPMENT INDIAN AFFAIRS & NORTHERN DI IAND 851 IAND-11A 44 IAND-14A 807 INDUSTRY TRADE AND COMMERCE ITC 1.254 ITC-71 1.154 ITC-60 100 737 762 861 785 20 805 25 44 47 42 761 25 10 817 20 690 ITC ITC-TI ITC-GO JUSTICE JUST 1.712 2,795 2,730 65 3,431 3,366 65 657 657 4,698 636 636 4.041 458 458 4.041 ø 48 48 48 41 25 25 25 41 JUST-ADM LABOUR -----48 137 49 186 20 184 125 45 170 LAB NATIONAL DEFENCE NDEF NDEF-SER 84 3,242 1,987 2,022 2,995 53 53 3,048 3,048 3,164 78 78 35 35 NDEF-SER 1.987 NATIONAL HEALTH AND WELFARE NHW 7.883 2. NHW-HSS 7.853 2. NHW-HP 30 10,606 9,937 9,309 9,066 243 75,203 11.612 10.991 62) 77.494 8,201 7,946 255 2,405 1,991 414 2,500 10,328 10,012 316 65,948 2,303 1,925 378 2,291 445 669 83, 59 I 81,091 MRC 6 NATIONAL REVENUE POST OFFICE PRIVY COUNCIL 63.988 150 150 501 197 197 581 ----ECC PUBLIC WORKS PW PW-PTS CMHC 43 43 597 43 43 642 15 15 17005 71 71 733 10 10 49 60 11 ----5 60 956 45 658 CMHC 75ANSION REGIONAL ECONOMIC EXPANSION SCIENCE AND TECHNOLOGY NRC 10,843 NRC-SIR 10,843 NSERC 104,917 8, SC 77 15,803 15,803 151,566 77 18,753 18,753 158,435 653 653 17,551 19,486 19,486 67,986 407 11,250 15,349 454 11,250 15,349 138,891 77 454 8,230 167 SC SECRETARY OF STATE 116 116 752 22 476 254 55 555 SECS-OL SECS-TRA 39 22 476 476 500 Ř 476 476 -----476 500 500 SECS-TRA 41 SECS-CIT 25 SOLICITOR GENERAL SGEN-ADM 75 SGEN-ADM 75 SUPPLY AND SERVICES SS 1.44 SS-SUPP 1.46 TRANSPORT TPT-ADM 96 TPT-AIR 20 CTC 10 17 55 760 760 35 999 999 25 999 999 25 **759** 759 760 760 35 23 782 782 ----1,603 304 304 291 291 1,329 274 1,706 1,292 1,503 482 1, 402 13 -0 983 996 Ø 963 20 142 963 33 142 ñ 13 164 142 164 142 TREASURY BOARD 42,956 TOTAL 227,460 28,601 256,061 284, 146 35,626 319,772 308,281 351,237

NON-PROFIT INSTITUTIONS, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80	**		1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
	and will don't say that yilly day had use in				ir im im an au au an an an a	and died and more only have been have been appendent appe			
AGRICULTURE	423 423		423	485		485	465	13	478
AGR-RI CDC	423	368	423	485	300	485 300	465	13 400	478 400
COMMUNICATIONS	22	45	47		18	18		20	20
COMM-COMM COMM-AC	Aug. 440	9 36	11 36	100 Bio 100	8 10	8	and the test	10	10 10
CRTC NMUS	37	966	37	35	I, 165	35	35	1, 197	35 1, 197
SSHRC CONSUMER AND CO	ORPORATE P	2,291	2,291		2,200	2,200		2,300	2,300
CCA CCA-CON ECONOMIC DEVELO	11 11	tadi uper spin Indi adas Indi	1 1 1 1	14 14	400 Mar 100	14 14	1 <b>5</b> 15		15 15
ED EMPLOYMENT & II		200	200		150	150	where where we	150	150
EI EI-ADM			Ø		100	100 100			0
ENERGY MINES & EMR	RESOURCES	41	1,490	1,591	32	1,623		20	
EMR-ENER EMR-MES	1,299		1,299	1,351	-	1,351 272	1,480 1,351 129	32	1,512
AECB	84		84	240 10	32	10	129	32	161 11
ENVIRONMENT ENV	2,698	181	2,879	3,935	229	4,164	5,045	224	5,269
ENV-ES ENV-EPS	2,698 75 73	37	2,735 75	3,935 75	71	4,006 75	5,045 75	50	5,095
EHV-AES EHV-ECS	73 10	19 18	92 28	9	53 18	53 27	9	32 18	32
ENV-FOR ENV-PC	2,540	144	2,540	3,851	-	3,851	4,961	100 -000 1-st	4,961
EXTERNAL AFFAIR					158	158		174	174
C1DA IDRC	608	293	293 608	370		370	475	80	0 555
FINANCE FISHERIES AND (									
F&O F&Ø-FM	1,432	325 325	1,757	1,485	325	1,810	1,479		1,479
INDIAN AFFAIRS	& NORTHER 146	N DEVELOP	1ENT 1,176	246	1,030	1,276	253	1 100	
IAND-IIA IAND-NA	93 53	1,030	1,123	93	1,030	1,123	100	1,192	1,445
INDUSTRY TRADE	AND COMME	RCE		153		153	153	100	253
ITC ITC-TI	379 29	70 70	449 99	391 16	63 63	454 79	418 43	55 55	473 98
ITC-GO JUSTICE	350		350	375	ME OF AN	375	375	viter viter som	375
JUST JUST-ADM	973 973	225	1,198	694 694	300 300	994 994	700 700	300 300	1,000
LABOUR	2000 and 1900	15	15	15		15	16		16
NATIONAL DEFENC			23		-	Ø	10		D
NDEF-SER NATIONAL HEALTH		APF	23			8	talk talk ser-		0
NHW-HSS	3,070	1,330	4,400	2,775	1,403	4,178	3,248	1,437	4,685
NHW~HP	164	1,225	4, 131 269	2,731 44	1,403	4, 134	3,204 44	1,437	4, 641 44
MRC NATIONAL REVENU	E	121	121		121	121		132	132
PRIVY COUNCIL									
PC ECC	1,796		1,796	549 10	Well services	549 10	549 15		549 15
PUBLIC WORKS		33	33		49	49	10	74	
PW-PTS CMHC	243	33 406	33 649	75	49	49		34	34
REGIONAL ECONOM SCIENCE AND TEC	IC EXPANS	ION	643	( )	366	441	83	402	485
NRC	155		155	140		140	140	66	206
NRC-SIR NRC-STI	155		155 0	140		148	140	66	140 66
NSERC	972 28	638	1,610	1,342 25	912	2,254	1,613	1,022	2,635
SECRETARY OF ST SECS	ATE 2,064		2,064	2,409	140	2,549	2,224		
SECS-OL SECS-CIT	246	dalih sena asea	246	480	100 ALL 14	480	509	340	2,564
SOLICITOR GENER			1.818	1,929	140	2,069	1,715	340	2,055
SGEN-ADM	37 37	the same and	37 37	And any algo		Ø	with size and		0
SUPPLY AND SERV	57	168	225	371	178	549	379	170	549
SS-SUPP TRANSPORT	57	168	225	371	178	549	379	170	549
TPT TPT-SUR	50 50	Adda dabba asaa	50 50	50 50		50 50	50 50		50 50
TREASURY BOARD	113		113	113		113	113		113
TB-ADM TOTAL	113 16,986	8,746	113	113	0.001	113	113	0 500	113
$a \sim b \gg b_{cd}$ . The set of th	19,300	0,140	25,732	17 130	9,081	26,211	18,846	9,566	28, 412

#### PROVINCIAL & MUNICIPAL GOVERNMENTS, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81		- non- and the same the data was also non- and which	1981-82	1981-82		
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL		
AGRICULTURE											
AGR AGR AGR-RI	4	space space anno	4	1,095		1,095	905		905		
COMMUNICATIONS	4		4	1,095		1,095	905		905		
NMUS CONSUMER AND CO			6,370	9/8 (04 mm	5,615	5,615		5,873	5,873		
CCA CCA+CON	16 16		16 16	20 20	400 mm mm	20	21 21	ana 100 mm	21		
ECONOMIC DEFELC EMPLOYMENT & IN		N									
EI EI-ADM			0	36 36		36 36	-		0		
ENERGY MINES &		5	54,714	67,727	feer bits to be	67,727	89,664		89,664		
EMR-ENER	53,039	ware ware man	53,039	66,259		66,259	88,423	ting the line	88,423		
AECB	41	and all one	1,675 41	1,468		1,468	1,241 64	and have been	1,241 64		
ENVIRONMENT ENV	240	3,228	3,468	238	3,298	3,536	270	3,999	4,269		
ENV-ES ENV-EPS	239 60	3,228	3,467 60	237 60	3,298	3,535	269 60	3,999	4,268 60		
ENV-AES ENV-ECS	76	140	140	57	168	168 3,187	69	184	184		
ENV-FOR ENV-PC	103		103	120		120	140		140		
EXTERNAL AFFAIL FINANCE				•			^		*		
FISHERIES AND C	DCEANS	68	68		20	20		74	7.4		
F&O-FM		68	68	date was man	20	20	and one and	74 74	74 74		
INDIAN AFFAIRS		KN DEVELOP	0			Ø	-	25	25		
IAND-NA INDUSTRY TRADE	AND COMM	ERCE	0			0		25	25		
JUSTICE	149		149	207		207	418		418		
JUST-ADM LABOUR	149		149	207		207	418	ana ana dan	418		
NATIONAL DEFENC	E 11		11	100		100			0		
NDEF-SER NATIONAL HEALTH	11		11	100		100	effer Sala effer	day ware not	õ		
NHW NHW-ADM		1,096	1,492	317	1,623	1,940	246	2,186	2,432		
NHW-HSS	396	14	410	317	1,570	1,570	246	2,070	2,070 349		
NHW-HP NATIONAL REVENL	JE	12	12	dank wan unter	11	11	1979 AND AND	13	13		
POST OFFICE PRIVY COUNCIL											
PUBLIC WORKS		5	5			0			Э		
PW-PTS CMHC	86	5 48	5 134	60	7	Ø 67			0 74		
REGIONAL ECONOR REE	TIC EXPAN	SION 1,925	1,925		3,216	3,216		6,616	6,616		
SCIENCE AND TEC	HNOLOGY 266		266	280			971	01010			
NRC-SIR	266	-	266	280		280 280	971		971 971		
SECRETARY OF ST	7		7	Mills with silai		0			0		
SECS-CIT SOLICITOR GENER			7	and one date	And the second	0	and the second		Ø		
SGEN-ADM	93		93	192 192	40 40	232	228 228	40	268		
SUPPLY AND SERU SS			15		oppe with sales	Ø			0		
SS-SUPP TRANSPORT	15	-	15	-		õ	440 Mar 1997	day any lost	Ő		
TPT TPT-ADM	20 20		20 20	fails only some	and stars and	0			0		
TREASURY BOARD	20		20	one faite that	and the date	Ø			0		
TOTAL	56,058	12,740	68,798	70,330	13,819	84, 149	92,853	18,821	111,674		

#### NATURAL AND HUMAN SCIENCES

#### FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES FOREIGN, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80	ma tan tan tan ang ang dik tik ma ma una una	une une 1950 for the data and one of 1970 d	1980-81			1981-82	
OR AGENCY.	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE									
AGR AGR-RI	12	7	19 16	53 53	9 5	62 58	33 33	9	<b>42</b> 39
CDC COMMUNICATIONS		3	3	PBD bits stat.	4	4		3	3
COMM COMM-COMM	1,440		1,440	2,509		2,509			0
NLIB SSHRC CONSUMER AND CO	ODDODOTE C	18 2,562	18 2,562	ting user sale	2,976	2,976		36 3,070	3,070
CCA CCA-CON	43 36	4	47 36	85 45		85 45	48 48	4044 6064 6044	48 48
CCA-COR CCA-CICP	7		74	40	6400 650 feb	40			0
ECONOMIC DEVEL EMPLOYMENT & II			-			0			0
EI EI-ADM	33	-	3	20		20	4		4
CEIC ENERGY MINES &			Ø		39	39	200 AN AN	41	41
EMP. IMR-ENER	1,016 100	16	1,032	970 100	17	987 100	993 100	20	1,013
EMR-MES AECL	916 61	16	932 61	870 100	17	887 100	893 125		913 125
ENVIRONMENT ENV	157	646	893	165	569 569	734	199	596 596	795 795
ENV-ES ENV-EPS ENV-AES	157	646 640	803 16 640	165 10 21	563	734 10 584	199	590	15
ENV-ECS ENV-FOR	27 114	640	33	26	6	32	26 158	6	32 158
EXTERNAL AFFA I		110	110		132	132		142	142
IA-CIA CIDA	10,227	110 256	110	9,325	132 282	132 9,607	10,396	142 310	142
IDRC FINANCE	22,412	1,626	24,038	23,239	2,129	25,368	26,816	2,241	29,057
FISHERIES AND	75		75	90	-	90	29		29
F&O-FM INDIAN AFFAIRS			75 MENT	98		90	29	page dank binir	29
INDUSTRY TRADE	25 25	10 10	35 35	All the sec	75 75	75 75		<b>40</b> 40	40 40
JUSTICE	2.5	10	00		10	15		40	-10
NATIONAL DEFEN	CE 1,240		1,240	1,363		1,363	1,470		1,470
NDEF-SER NATIONAL HEALT	1,240		1,240	1,363	antice address series	1,363	1,470	and Affer pilos	1,470
NHW-HSS	202 202	95 93	297 295	145 145	70 70	215 215	118 118	59 59	177 177
NHU-HP MRC	2,583	2 24	2,607	2,829	31	2,860	3,086	34	3,120
NATIONAL REVEN POST OFFICE PO		3	18	15	3	10	5		5
PRIVY COUNCIL	15 88		88	15 30		18	25	Long Miller Miller	25
PUBLIC WORKS	35	70	105	5	110	115		115	1 15
PW-PTS CMHC	35	70 199	105	5	110 185	115 185		115 271	115
REGIONAL ECONO SCIENCE AND TE	MIC EXPANS		6m 0 A						-
ST NRC	1,037	536	536 1,037	1,941	570	570 1,941	2,179	2,289	2,289 2,179
NRC-SIR NSERC	1,037	1,425	1,037 2,525	1,941 1,492	1,849	1,941 3,341	2,179	2,674	2,179 4,351
SC SECRETARY OF S		weak same same	1	6	MET AND ONLY	6	5	und since and	5
SGEN SGEN	24	1771 Mar. 4647	24			Ø		we per per	0
SGEN-ADM SUPPLY AND SERI	24 VICES		24	We have and		0		34	0 34
STCAN TRANSPORT CTC	25	31	31 25	25	31	31		34	25
TREASURY BOARD	23			2.3			C-J		
TOTAL	41,833	7,638	49,471	<b>44</b> , 407	9,100	53,507	47,233	11,981	59,214

OTHER. BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80		1980-81			1981-82		
OR AGENCY	R&D	RSA	TOTAL	ReD	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE									
AGR AGR-RI	677 677	2,921	3,598 3,598	832 832	1,923	2,755	804 804	100 100 au	804 804
CDC CLF8	67		67	20		20	20		20
COMMUNICATIONS	2	14	14		14	14	20		0
COMM-COMM CRTC	12	14	14	20	14	14	85		0 85
NMUS CONSUMER AND CO	266	1,240	1,506	278	1,082	1,360	301	1,149	1,450
CCA	366	207	573	462	90	552	496	215	711
CCA-ADM CCA-CON	366	24	24	462		462	496	65	65 496
CCA-CICP ECONOMIC DEVELO	PMENT	183	183	with our our	90	90		150	150
EMPLOYMENT & IN ENERGY MINES &	RESOURCE	S							
EMR-MES	718	67 67	785 785	9 I 8 9 1 8	134 134	1,052	829 829	147 147	976 976
AECB AECL	343		0 343	17 368	entre sons	17 368	19 130	and the same	19 130
ENVIRONMENT	538	1,863	2,401	677	2, 162	2,839	755	2,305	3,060
ENV-ES ENV-EPS	426	1,800	2,226	554 290	2,093 58	2,647 348	620 285	2,229	2,849 332
ENV-AES ENV-ECS	70 164	1,483	1,553 416	76	1,741 294	L 817 478	99 222	1,824	1.923
ENV-FOR ENV-PC	12 112	62	12	4	69	192	14	76	211
EXTERNAL AFFAII	RS 27.1	117 -	388	247	106	353	242	114	356
FINANCE FISHERIES AND C									
F&O F&O-FM	315 315	1,023	1,338	<b>330</b> 330	423	753 753	343 343	854 854	1,197
INDIAN AFFAIRS				213	206	419	215	219	434
IAND-IIA IAND-NA	31	206	237	31	206	237	33	219	252
INDUSTRY TRADE	AND COMM	ERCE 48	148	100	133	233	100	146	246
ITC-TI JUSTICE	100	48	148	100	133	233	100	146	246
JUST JUST-ADM	418	136 136	554 554	647 647	158 158	805 805	1,042	178	1,220
LRC	177	43	220	189	71	260	191	102	293
LAB NATIONAL DEFENS		51	51	7	55	62	8	60	68
NDEF NDEF-SER	291 291		291 291	181		181 181	275 275		275
NATIONAL HEALTH	AND WEL	FARE 36	148	59	77	136	180	77	257
NHW-HSS NHW-HP	22 90	36	126	10	77	10	128	5	133
NATIONAL REVENL POST OFFICE									2 00- T
PRIVY COUNCIL		27	27	400 vite and	an size and	Ø	60 AM AM		0
PUBLIC WORKS		96	96		97	97		29	29
PH-PTS CMHC	. 288	96 180	96 468		97 194	97 242	53	29 213	29
REGIONAL ECONOR SCIENCE AND TEC	1IC EXPAN		400		104	6	55	6.0	200
NRC NRC-SIR	805 805	781 781	1,586	557 557	852 852	1,409	652	946 946	1,598
SC SECRETARY OF ST	190		190	322		322	370		370
SECS-OL		369	369 9	568	540	1,108	568	306	874 16
SECS-TRA SECS-CIT		290 70	290 70	568	290	290 818	568	290	290
SOLICITOR GENER	RAL 117	80	197	27	150	177	30	150	180
SGEN-ADM SUPPLY AND SERV	117	80	197	27	150	177	30	150	180
SS-SUPP	275	115 115	390 390	I 48 148	91 91	239	141 141	85	226
TRANSPORT	24		24	95	368	463	1.41	380	380
TPT-AIR TREASURY BOARD	24		24	95	368	463		380	380
TOTAL	6,514	9,620	16,134	7,330	8,926	16,256	7,849	7,675	15, 524

## FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT BY PERFORMER, 1979-1982

#### (\$ THOUSANDS)

PERFORMER						82
	\$	%	\$	%	\$	%
INTRAMURAL	624,101	( 52,4)	703,967	( 50.6)	818,705	C 51.D
INDUSTRY	218,034	( 18.3)	264, 156	( 19.0)	308,377	( 19.2)
INIVERSITIES	227,460	(19.1)	284, 146	( 20.4)	308,281	( 19.2)
NON-PROFIT INSTITUTIONS	16,986	( 1.4)	17,130	( 1.2)	18,846	( 1.2)
PROVINCIAL & MUNICIPAL	56,058	( 4.7)	70,330	( 5.1)	92,853	( 5.8)
FOREIGN	41,833	( 3.5)	44, 407	( 3.2)	47,233	( 2.9)
OTHER CANADIAN	6,514	( 0.5)	7,330	( 0.5)	7,849	( 0.5)
TOTAL	1,190,986	(100.0)	1,391,466	(100.0)	1,602,144	(100.0)

BY PERFORMER, 1979-1982

DEDTADMED	1979-	80	1980-	81	1981-	82
PERFORMER	\$	%	\$	2	\$	*
INTRAMURAL	578,107	( 82.5)	647,533	( 82.2)	782,991	( 82.8)
INDUSTRY	55,361	( 7.9)	63,760	( 8.1)	71,986	( 7.6)
UNIVERSITIES	28,601	( 4.1)	35,626	( 4.5)	42,956	( 4.5)
NON-PROFIT INSTITUTIONS	8,746	( 1.2)	9,081	( 1.2)	9,566	( 1.0)
PROVINCIAL & MUNICIPAL	12,740	( 1.8)	13,819	( 1.8)	18,821	( 2.0)
FOREIGN	7,638	C 1.D	9,100	( 1.2)	11, 981	( 1.3)
OTHER CANADIAN	9,620	( 1,4)	8,926	( 1.1)	7,675	( 0.8)
TOTAL	700,813	(100.0)	787,845	(100.0)	945,976	(100.0)

#### FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

		1979-80	t this will also and dank the also and and had a	40 Mart and own first first film with solit stars and star	1980-81			1981-82	
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	.EXTRA- MURAL	TOTAL
AGR-ADM	127, 324		134,041	134,930		143,536	153, 393	8, 122	161,515
AGR-DEV AGR-RI AGR-CGC CDC CLFB	121, 302 4, 686 1, 336 55	6,717 67 7	128,019 4,686 1,403 62	127,754 5,673 1,5 <b>03</b> 59	8,606	136,360 5,673 1,503 96	144, 184 7, 556 1, 653 70		152,306 7,556 1,653 110
COMMUNICATION COMM COMM-COMM	NS 38,711 38,711	16,263 16,263	54, 974 54, 974	43, 423 43, 423	22,902 22,902	66, 325 66, 325	37,728 37,728	14,223 14,223	51,951 51,951
COMM-AC CBC CRTC NFB	477 298	65	542 298	 666 412	110	776	519 456	160	679 456
NLIB NMUS PA	2,571	266	2,837	2,613	278	2,891	5,458	301	5,759
	1,065	757	21,293 1,822	2,042	22,815 850	24,857	2,253	24,780 741	27,033
	6 I7 121 327	546 211	1,163 332 327	749 112 356	690 160	1,439 272 356	810 342	741	342
ECONOMIC DEVE							440 MH	even often must	
EMPLOYMENT & EI EI-ADM	IMMIGRATIC 1,231 1,231		1,292	1,465	63 63	1,528	1,560 1,560	1 1 1 1	1,571 1,571
CE IC ENERGY MINES EMR EMR-ENER EMR-MES AECB AECL NEB	& RESOURCE	69,272 57,841 11,431 416 11,501	124,897 58,639 66,258 575 75,410	66,987 4,081 62,906 200 70,898	95,355 83,571 11,784 568 12,186	162,342 87,652 74,690 768 83,084	105,809 35,683 70,126 226 81,676	124,778 111,804 12,974 625 11,591	230,587 147,487 83,100 851 93,267
ENVIRONMENT ENV-ADM ENV-ES ENV-EPS ENV-AES ENV-ECS ENV-FOR ENV-PC EXTERNAL AFFA	54, 331 417 53, 815 1, 923 11, 101 16, 349 24, 442 99	16,252 15,928 2,393 556 1,301 11,678 324	70,583 417 69,743 4,316 11,657 17,650 36,120 423	61,839 399 61,331 2,148 11,648 16,536 31,043 109	19,954 19,597 3,015 510 1,290 14,782 357	81,793 399 80,928 5,163 12,114 17,826 45,825 466	72,603 432 72,052 2,398 13,045 19,770 36,839 119	22,546 22,154 2,950 831 1,507 16,866 392	95,149 432 94,206 5,348 13,876 21,277 53,705 511
EA EA-CIA CIDA IDRC	458 6, 841	10,502 23,670	10,960 30,511	405 7,133	9, 675 24, 2 <b>93</b>	10,080 31,426	449 8,324	10,796 28,427	11,245 36,751
FINANCE FIN FIN-FEP				and date date	and fair and	and test over			
FISHERIES AND F&O F&O-FM	49,000 49,000	6,301 6,301	55, <b>30</b> 1 55,301	51,034 51,034	6,475 6,475	57,509 57,509	55,773 55,773	8,286 8,286	64,059 64,059
INDIAN AFFAIR IAND IAND-IIA IAND-NA INDUSTRY TROD	1,498 25 1,473	1,359 235 1,124	MENT 2,857 260 2,597	1) 623 25 1, 598	1,526 242 1,284	3,149 267 2,882	1,692 27 1,665	1,484 259 1,225	3,176 286 2,890
INDUSTRY TRAD ITC ITC-TI ITC-TOUR ITC-GO	6,785 6,622 91 72	75,966 74,090 156 1,720	82,751 80,712 247 1,792	9,773 9,632 91 50	89,104 88,058 156 890	98,877 97,690 247 940	10,747 10,592 100 55	115,261 114,615 171 475	126,008 125,207 271 530

#### FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE JUST JUST-ADM JUST-CUIO	586 586	1,540 1,540	2,126 2,126	833 833	1,548 1,548	2,381 2,381	1,048 1,048	2,160 2,160	3,208 3,208
CHRC LRC LABOUR	1,552	177	1,729	1,588	189	1,777	1,975	191	2, 166
LAB NATIONAL DEFE	354	114	468	411	192	603	452	210	662
NDEF NDEF-SER NATIONAL HEAL	58,572 58,572	26,802 26,802	85,374 85,374	63, 133 63, 133	33, 458 33, 458	96,591 96,591	68,597 68,597	39, 549 39, 549	108,146 108,146
NHW NHW-ADM NHW-HSS NHW-MS NHW-HP	10,522 1,410 1,047 135 7,930	11,722 11,398 	22,244 1,410 12,445 135 8,254	15,286 1,635 1,197 1,440 11,014	13,061 12,519 542	28,347 1.635 13,716 1,440 11,556	18,377 1,660 1,271 1,621 13,825	12,663 12,097 566	31,040 1,660 13,368 1,621 14,391
NHW-IS MRC NATIONAL REVE	1,272	66,563	67,835	1,435	78,032	79,467	1,608	84, 177	85,785
NREV-TAX	1,489	una des una	1,489 1,489	1,436 1,436		1, 436 1, 436	1,584		1,584 1,584
POST OFFICE PO PRIVY COUNCIL	180	63	243	210	48	258	223	350	573
PC		1,796	1,796		549	549	-	549	549
ECC PUBLIC WORKS	6,108	1,217	7,325	6, 486	533	7,019	5,950	490	6,440
PW PW-PTS CMHC NCC	1,641 1,641 2,163 638	1,910 1,910 2,267	3,551 3,551 4,430 638	1,318 1,318 2,790 661	2,942 2,942 1,490	4,260 4,260 4,280 661	353 353 3,069 1,331	1,055 1,055 1,639	1,408 1,408 4,708 1,331
REGIONAL ECON REE SCIENCE AND T	759 ECHNOLOGY	15 I ON 31	790	748	52	800	912	60	972
	109,092 109,092	61,515 61,515	170,607 170,607	129,508 129,508	71,599 71,599	201,107 201,107	148,355 148,355	83,717 83,717	232,072 232,072
NRC-STI NSERC SC	1,818 877	108, 482 368	110,300 1,245	2,957 1,034	144,071 460	147,028	3,451 1,222	156,457 608	159,908 1,830
SECRETARY OF SECS SECS-OL SECS-ES	2, 184	2,811 246	4,995	2,378	3,453 480	5,831 480	2,607	3,292 509	5,899 509
SECS-TRA SECS-CIT PSC	2, 184	476 2,089	2,660 2,089 212	2,378	476 2,497	2,854 2,497	2,607	500 2,283	3,107 2,283
SOLICITOR GEN SGEN SGEN-ADM RCMP	323 323	1,448 1,448 31	1,771 1,771 31	<b>404</b> 404	1,321 1,321 130	1,725 1,725 130	322 322 214	1,635 1,635 128	1,957 1,957 342
SUPPLY AND SE SS SS-SUPP STCAN	74 74 74 3,499	12,072	12, 146 12, 146 3, 499	81 81 4, 284	12,085 12,085	12, 166 12, 166 4, 284	90 90 6,463	12,327	12,417 12,417 6,463
TRANSPORT TPT-ADM TPT-ADM TPT-AIR TPT-AIR TPT-SUR CTC TREASURY BOAR	7,250 591 3,518 3,034 107 729	6, 611 6, 407  154 50 366	13,861 6,998 3,518 3,188 157 1,095	9,627 1,287 5,363 2,902 75 640	6,956 6,806 100 50 420	16,583 8,093 5,363 3,002 125 1,060	9,885 1,130 5,788 2,892 75 729	9,531 9,281 50 150 366	19,416 10,411 5,838 3,042 125 1,095
TB TB-ADM		113 113	113 113	eve had eve	113 113	113 113		113 113	113 113
TOTAL	624,101	566,885	1,190,986	703,967	687,499	1,391,466	818,705	783,439	1,602,144

# FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN INDUSTRY BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT		79-80		80-81	19	81-82
OR AGENCY	GRANTS		GRANTS		GRANTS	CONTRACTS
AGRICULTURE	1 Milli hop man with well west more was		ala ilio are no are an are no an	. Data many many tana amin' kao sion data data many sala	nap tills wie tills wer tills one wie and an	
AGR		2,122		2,390		2,278
AGR-ADM						
AGR-DEV AGR-RI		2,122	Nation 1997	2,390		2,278
AGR-CGC				E7000		27210
CDC			man, appr anna			
CLFB		and the sec				
COMMUNICATIO	NS 9,536	4 405	11 150	8.008	2 000	0.000
COMM COMM-COMM	9,536	4,485	11,158	8,260 8,260	3,962	9,286
COMM-AC					07002	57200
CBC						
CRTC NFB	3	13		15		
NLIB						
NMUS				-		more many only.
PA				man other weak		
SSHRC			And And State			
CONSUMER AND	CORPORA	TE AFFAIRS		204		134
CCA-ADM		230		204		134
CCA-CON		97		124		134
CCA-COR		133		80	1000 ana. 1000	
CCA-CICP ECONOMIC DEV	TT OPMENT				appent. MARA. (MRRa	
ED	LLOITENI		Ball and low			
EMPLOYMENT &	IMMIGRA					
EI		58	dest any any	7		7
EI-ADM		58		7	gypt house goaps.	7
CEIC ENERGY MINES		RCES		Galf who will		
EMR	2,865	7,013	15,101	7,237	18,370	11,935
EMR-ENER	2,865	533	15,101	630	18,370	3,430
EMR-MES		6,480	And See and	6,607		8,505
AECB AECL	dial line and	116 9,777		181 10,409	ware lood talls	· 199 9,818
NEB				107400	1607 (0.66 (0.66	
ENVIRONMENT						
ENV	2,300	8,094	2,300	10,083	2,300	10,902
ENV-ADM ENV-ES	2,300	7,952	2,300	9,927	2,300	10,730
ENV-EPS		1,750	27500	2,265	2,500	2,200
ENV-AES						
ENV-ECS		546		538		655
ENV-FOR ENV-PC	2,300	5,656	2,300	7,124	2,300	7,875
EXTERNAL AFF	AIRS	146		100		116
EA		man built term				
EA-CIA						
CIDA				044 km0 044	and and had	
IDRC FINANCE	Addit offer ware	when much force		tions and tony		
FIN			-			
FIN-FEP			and an open surface			
FISHERIES AN	D OCEANS					
F&O		3,286		3,350		5,238
F&0-FM INDIAN AFFAI	RS & NOR	3,286 THERN DEVEL	OPMENT	3,350	NAME AND ADDRESS OF	5,238
IAND		220		282		279
IAND-IIA		67		74		79
IAND-NA	DE OND C	153	100 mm 200	208		200
INDUSTRY TRA	DE AND C 74,022	OMMERCE 186	85,612	206	110 406	216
ITC-TI	72,752	30	85,162	50	110,486 110,386	45
ITC-TOUR		156		156		171
ITC-GO	1,270	Ban may sold	450		100	

# FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT

IN CANADIAN INDUSTRY

BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT		79-80		80-81	I981-82		
OR	main falls and and man over with	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS	
JUSTICE							
JUST-ADM							
JUST-CUIO	dark dark ware	Name and allow					
CHRC		after data unar					
LRC LABOUR							
LAB		30	35	10	38	I 1	
NATIONAL DEF	ENCE	23,250		28,819		34,640	
NDEF-SER		23,250	dans didis dalar	28,819		34,640	
NATIONAL HEA							
NHW	15	44	15	441	15	655	
NHW-ADM NHW-HSS		19		250		455	
NHW-MS			dan dan dan				
NHW-HP	15	25	15	191	15	200	
NHW-IS			848 date date				
MRC NATIONAL REV							
NREV			ans this are	100 and 100			
NREV-TAX			And that into	ann ann agus	440 000 000	daab dado dado	
POST OFFICE		48	ALL - 49-10 - 49-50	33		345	
PRIVY COUNCI	L	10		00		0.40	
PC		ands 40th ouro	till years with				
COL ECC		412	the sea on	296	600 600 ees	300	
PUBLIC WORKS				200		000	
PM		1,815		2,937	data data syya	1,045	
PW-PTS CMHC	79	I,815 1,484		2,937	13	1,045	
NCC		1,404		1) 200		1,010	
REGIONAL ECO							
REE SCIENCE AND		31	ante aple ante	52		60	
ST	IECHNOLO						
NRC	25,583	22,826	22.381	30,951	27,434	33,588	
NRC-SIR	25,583	22,826	22,381	30,951	27,434	33,588	
NRC-STI NSERC							
SC		72		30		77	
SECRETARY OF							
SECS-OL	27			with data area			
SECS-ES		dant and bank					
SECS-TRA			AN1 AN1 (111)		Adda (1007) (1007)		
SECS-CIT PSC	27						
SOLICITOR GE							
SGEN		418		342		378	
SGEN-ADM		418 25		342		378 103	
RCMP SUPPLY AND S		20		95		103	
SS		10,323		10,274		10,478	
SS-SUPP		10,323	Adda 4044 4040	10,274		10,478	
STCAN						and and data	
TPT		5,534		6,811		9,481	
TPT-ADM	-	5,424		6,806	and ages now	9,281	
TPT-MAR TPT-AIR		116		5		50 150	
TPT-SUR			Bank dasht dasht			120	
CTC		199		231		199	
TREASURY BOA							
TB-ADM							
TOTAL	114,430	102,111	136,614	125, 196	162,618	143,027	

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CAMADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT	19	79-80	19	80-81	19	81-82
AGENCY	GRANTS	CONTRACTS		CONTRACTS	GRANTS	CONTRACTS
AGRICULTURE	1,372	2,530	1, 386	2,850	1,386	2,716
AGR-ADM AGR-DEV		Tank days and	dran dran ram			
AGR-RI AGR-CGC	1,372	2,530	1,386	2,850	1,386	2,716
CDC						and they have
CLFB COMMUNICATIO	N5	5		17		20
COMM	2	800	25	950	25	950
COMM-COMM COMM-AC	2	800	25	950		950
CBC CRTC	33				75	
MFB	anna Revill anna	The same new				-
HLIB NMUS						
PA	And Description	dead same filles			waters define fermion	
SSHRC CONSUMER AND	14,637 COPPORA	TE AFFAIRS	17,010		18,375	
CCA		102	Tails daw Alda	79	4-0 pert per	42
CCA-ADM CCA-CON		31		39		42
CCA-COR		71		40		
CCA-CICP ECONOMIC DEV	EL OPMENT	where when about	three and a freed	data data ana		allan may man
ED						
EMPLOYMENT &	IMMIGRA	TION			AND DATE ADDA	
EI-ADM						
CEIC ENERGY MINES	& RESOL	RCES				
EMR	1,894	1,052	1,984	1,418	1,853	1,134
EMR-ENER EMR-MES	1,304	1,052	1,481 503	1,418	1,481 372	1,134
AECB		259	4-0 -00 -004	312		343
AECL NEB	daga daga naga	1,320		1,309		1,518
ENVIRONMENT						
ENV-ADM	2,211	2,712	2,197	4,294	2,910	5,210
EHV-ES	2,211	2,643	2, 197	4,217	2,910	5,126
ENV-EPS ENV-AES	266	387	283	390 130	300	390 432
ENV-ECS	253	235	252	233	252	283
ENV-FOR ENV-PC	1,692	1,801	1,662	3,464	2,358	4,021
EXTERNAL AFF	AIRS					
EA-CIA						
CIDA				4990 Mile adds	1 700	
I DRC F I NANCE	987		807	dia sea dia	1,369	
FIN FIN-FEP						
FISHERIES AN	D OCEANS					
F&O F&O-FM	585 585	1,987 1,987	585 585	2,060 2,060	510 510	2,166 2,166
INDIAN AFFAI IAND	510 KS & NUK	THERN DEVELO	578	453	578	412
IAND-IIA	510	137	where definite comm	137		147
IAND-NA INDUSTRY TRA		350 OMMERCE	578	316	578	265
ITC	1,368	5	2,933	10	2,383	76 76
ITC-TI ITC-TOUR	918		2,493	10	2,008	76
$\left( \left( 1\right) \right) = \left( \frac{1}{2} \right) \left( 1\right)$	32513		446		375	

FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT	19		19	80-81	1981-82		
OR AGENCY		CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS	
JUSTICE	-						
JUST	973		694	-	700		
JUST-ADM	973	the area and	694		700	are not the	
JUST-CUIO							
CHRC							
LABOUR							
LAB	74	10	75	65	82	71	
NATIONAL DEF	ENCE	2,010		2,995		3, 164	
		2,010		2,995		3,164	
NATIONAL HEA		WELFARE					
NHW NHW-арм	10,231	245	11,262	457	10,580	504	
NHW-HSS	10,201	81	11,232	200	10,550	235	
NHW-MS							
NHW-HP	30	164	30	257	30	269	
NHW-IS MRC	61,563		72,143	and take over	77,753		
NATIONAL REP			16,143		(()())		
NREV				tas are use	and west units		
NREV-TAX	area table base	www.taus.unite			wite non-term	and take over	
POST OFFICE							
PRIVY COUNCE	L						
PC	1,522	274	549		549	Ann 211 AN	
COL	tion with west						
ECC PUBLIC WORKS		717		207		165	
PW	with state safe	68			ann wile inst	10	
PW-PTS		60	alar date date		wite may 1014	10	
CMHC	5	313	23	97	25	107	
NCC REGIONAL ECO	NOMIC EV	TONE LON	with sale see	with over our	man true date		
REE	HONTE EA						
SCIENCE AND	TECHNOLO	GY					
ST				with with one		units units were	
NRC	9,681	1.317	13,642	1.847	16,985	1,908	
NRC-SIR NRC-STI	9,681	1,317	13,642	1,847	16,985	1,908	
NSERC	105,065		137,472		146,377		
50		105		102		156	
SECRETARY OF	STATE 2,301	476	2 400	476	2.224	EBO	
SECS-OL	246	4/10	2,409 480	4/6	2,224	500	
SECS-ES				with west man			
SECS-TRA		476		476		500	
SECS-CIT PSC	2,055		1,929	and with sale	1,715		
SOLICITOR GE	NERAL						
SGEN	300	496	350	410	350	649	
SGEN-ADM	300	496	350		350	649	
RCMP SUPPLY AND S	ERVICES	6		35		25	
SS	LAV ICES	1,459		1,663		1,708	
SS-SUPP	may never suffic	1,459		1,663		1,708	
STCAN		with same same	-		-	atur 100 100	
TRANSPORT	766	20	50	wite over over	50		
TPT-ADM	716						
TPT-MAR		and the second					
TPT-AIR	50	20	E0	with with with	===		
TPT-SUR CTC	50	I 42	50	164	50	142	
TREASURY BOA		* ~96_		104		ITC	
TB	113		113	atter Balls Gent	113	with sold was	
TB-ADM	113		113		113		
TOTAL	216, 193	18,913	266, 362	22,270	285,252	23,696	

# FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

		1979-80			1980-81	all 964 964 ind all had only the one fills due to		1981-82		
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	
AGRICULTURE AGR	6,481	3,419	9,900	6,807	2,539	9,346	8,000	630	8,630	
AGR~ADM AGR-DEV AGR-RI	3,134 1,851	491 2,925	3,625 4,776	3,212	607 1,928	3,819 3,837		 583 44	4,312 2,456	
AGR-CGC CDC	1,496	415	1,911	1,686	684	2,290		1,003	2,862	
CLFB COMMUNICATION	17	max with size	17	18	5	23	21	5	26	
COMM COMM-COMM COMM-AC CEC CRTC	3,457 3,068 389 1,597	777 584 193 1,751	4,234 3,652 582 3,348	4,057 3,724 333 1,647	1,194 864 330 2,007	5,251 4,588 663 3,654	499 1,753	1,083 823 260 2,221	5,593 4,834 759 3,974	
NFB NLIB NMUS PA SSHRC	192 14,712 37,652 9,320 1,746	9 18 9,573 13,542	201 14,730 47,225 9,320 15,288	211 17,156 41,223 9,900 1,959	13 23 9,224 15,825	224 17,179 50,447 9,900 17,784	227 21,536 40,723 12,009	15 36 9,648 16,445	242 21,572 50,371 12,009 18,568	
CCA-ADM CCA-CON CCA-COR CCA-CICP	10,054 409 1,504 8,109 32	312 24	10,366 433 1,504 8,109 320	11,729 489 1,678 9,527 35	188  	11,917 489 1,678 9,527 223	12,707 584 1,850 10,238 35	450 65  385	13, 157 649 1, 850 10, 238 420	
ED	1,400	200	1,600	1,656	150	1,806	2,049	150	2,199	
EMPLOYMENT & EI EI-ADM CEIC	7,141 7,141 4,280	770 770 1.520	7,911 7,911 5,800	7,173 7,173 4,573	828 828 3,185	8,001 8,001 7,758	7,601 7,601 4,995	878 878 3,376	8,479 8,479 8,371	
ENERGY MINES EMR EMR-ENER EMR-MES AFCB	37 669	4,114 440 3,674	37,783 1,852 35,931	32,934 1,778 31,156	4,918 590 4,328	37,852 2,368 35,484	40,265 2,916 37,349	4, 895 720 4, 175	45,160 3,636 41,524	
AECB AECL NEB ENVIRONMENT	3,501 1,781	10,035	13,536 1,781	3,822 1,890	11,649	15,471 1,890	4,329	13,920	18,249 2,089	
ENV-ADM	87,949 34,855 3,666 10,769	8,699 8,425 290 3,231 4,904  274	39,759	157,982 1,441 144,695 2,668 101,930 35,597 4,500 11,846	9,321 9,021 303 3,659 5,059 5,059 300	167,303 1,441 153,716 2,971 105,589 40,656 4,500 12,146	180, 891 1, 497 166, 363 2, 535 116, 085 43, 155 4, 588 13, 031	10,749 10,418 287 3,975 6,156 	191,640 1,497 176,781 2,822 120,060 49,311 4,588 13,362	
EA EA-CIA CIDA IDRC		1,410 1,410 24,979 1,751	5,028 5,028 26,485 5,968	3,900 3,900 1,668 5,373	1,612 1,612 25,369 2,235	5,512 5,512 27,037 7,608	4,414 4,414 1,929 6,149	1,762 1,762 28,362 2,550	6,176 6,176 30,291 8,699	
FINANCE FIN FIN-FEP	8,114 8,114	aliya dala shali ana fanit iyan	8,114 8,114	9,507 9,507		9,507 9,507	11,001 11,001		11,001 11,001	
FISHERIES AND F&O F&O-FM	53,888 53,888	3,476 3,476	57,364 57,364	56,053 56,053	2,841 2,841	58,894 58,894	51,316 51,316	4, 460 4, 460	55,776 55,776	
INDIAN AFFAIR IAND IAND-IIA IAND-NA INDUSTRY TRAD	1,575 75 1,500	1,584 1,353 231	MENT 3,159 1,428 1,731	1,794 80 1,714	1,563 1,358 205	3,357 1,438 1,919	1,970 85 1,885	1,884 1,441 443	3,854 1,526 2,328	
ITC-TH ITC-TH ITC-TOUR ITC-GO	113 15 98	597 597	710 612 98	118 20 98	919 919	1,037 939 98	133 25 108	911 911	1,044 936 108	

FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUST ADM JUST ADM JUST-CUIO CHRC LABOUR	1,656 327 1,329 202 311	386 386  288	2,042 713 1,329 202 599	1,914 362 1,552 230 374	499 499  47 1	2,413 861 1,552 230 845	2,581 481 2,100 255 459	526 526  677	3,107 1,007 2,100 255 1,136
L R B	2,661	96	2,757	3,035	175	3,210	3, 338	191	3,529
HATIONAL DEFE NDEF NDEF-SER HATIONAL HEAL	1,674	87 87	1,761 1,761	1,776 1,776	125 125	1,901 1,901	1,924	163 163	2,087 2,087
HIN-ADM HIN-ADM HIN-HSS	30,295 2,807 507	5,461 1,070 3,570	35,756 3,877 4,077	31,730 3,235 917	6,158 1,570 3,578	37,888 4,805 4,495	36,261 3,540 755	6,774 2,070 3,651	43,035 5,610 4,406
MIRC	26, 494 487 109	821 2,113	27,315 487 2,222	27,047 531 121	1,010	28,057 531 2,564	31,436 530 139	1,053	32,489 530 2,805
HATIONAL REVE	NUE 2,679 2,679	****	2,679	3,821 3,821		3,821 3,821	4, 548 4, 548		4, 548 4, 548
POST OFFICE PO FRIPY COUNCIL	386	3	389	274	26	300	574		574
COL ECC	6 859 844	 672	859 1.516	975 1,011		975 1,011	1, 172 952	Ann Ann 1997 Ann Ann 1997 Ann 1996 Ann	1, 172 952
PHELIC WORKS PH-PTS PHC C	1,436 1,436 4,223 495	760 760 2,329	2,196 2,196 6,552 495	2,626 2,626 4,830 430	1,424 1,424 2,791	4,050 4,050 7,621 430	5, 158 5, 158 5, 313 582	1,091 1,091 3,437	6,249 6,249 8,750 582
REE OND T		2,227	2,227	ata 📼 en	3,866	3,866		7,861	7,861
SCIENCE AND T	5, 156 29, 261 15, 693 13, 568 455 1, 236	536 1,541 1,541 10,293	5,692 30,802 17,234 13,568 10,748 1,236	5,973 34,014 17,807 16,207 740 1,511	570 2,270 2,270 15,436	6,543 36,284 20,077 16,207 16,176 1,511	7,410 39,259 20,099 19,160 861 1,712	2,289 2,817 2,751 66 21,247	9,699 42,076 22,850 19,226 22,108 1,712
SECRETARY OF SECS-OL SECS-ES SECS-TRA SECS-CIT	2,133 36 129 1,899 69	657 35 290 332	2,790 71 129 2,189 401 	2,380 71 155 2,081 73	982 302 290 390	3,362 373 155 2,371 463	2,281 91 177 1,936 77	1,251 216  290 745	3,532 307 177 2,226 822
SOLICITOR GEN SGEN SGEN-ADM RCMP	ERAL 550 550	164 164	714 714	710 710	256 256	966 966	548 548 50	247 247	795 795 50
SUPPLY AND SE	RVICES 17 17 118,626	2,753 2,753 31	2,770 2,770 118,657	19 19 143, 956	2,790 2,790 31	2,809 2,809 143,987	20 20 223, 456	2,673 2,673 34	2,693 2,693 223,490
THE HSPORT TET-ADM TET-ADM TET-AIR TET-SUR TET-SUR TET TETASURY BOAR	10,570 212 6,412 427 3,519 1,505	3,243 974 2,269 118	13,813 1,186 6,412 2,696 3,519 1,623	8,960 225 5,593 2,723 419 1,300	3,695 1,093 2,602 96	12,655 1,318 5,593 5,325 419 1,396	7,052 220 5,354 1,477 1,532	3,493 1,043 2,450 118	10,545 1,263 5,354 3,927 1,650
TB-ADM	9,933 9,933		9,933 9,933	11,673 11,673		I1,673 11,673	12,814		12,814 12,814
TOTAL	578, 107	122,706	700,813	647, 533	140,312	787,845	782,991	162,985	945,976

# FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1979-80 ( FULL-TIME EQUIVALENT PERSON-YEARS )

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & Foreign Service	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AGRICULTURE								
AGR AGR-ADM	5	1,033	127	1,066	458	1,368		4,057
AGR-DEV		32	26	7	52			117
AGR-RI AGR-CGC		930	99 1	943 57	393	1,330	har this are	148
CDC CLFB	0	20	1	59	9	3		92
COMMUNICATIONS COMM	17	234	74	149	109	66		649
COMM-COMM COMM-AC	17	227	73	149	108	66	have disk disk	640 9
CBC	4	19	1	31	1			57
CRTC		23	5	4	5		100 500 500	16 13
NLIB	3 8	182 102	35 204	46 281	231 161	3		500
PA		114	7	72	78		1977 Bad date	271 105
SSHRC CONSUMER AND C		FAIRS	48		52		200 LOJ 244	
CCA CCA-ADM	5	216	24	26	176 3	3		450 14
CCA-CON CCA-COR	1	21	9 13	25	8 162	3	6844 6844 (1999) 6844 6868 6844	67 355
CCA-CICP		11			102			14
ECONOMIC DEVEL	13	8	5		5			31
EMPLOYMENT & I El	MMIGRATION 6	85	9	26	61	P10 1040 444	4400 4000 min	187
EI-ADM CEIC	6	85 89	9	26 11	61 66	Andre anno Andre		187 174
ENERGY MINES 8	RESOURCES	951	60	880	313	189		2,403
EMR-ENER	3	42			1		ama 1949-ama	46
EMR-MES AECB	7	909	60	880	312	189	the mounts	2,357
AECL	16	613 37		800 10	324	569	9909 6465 8466	2,322
ENVIRONMENT		1,641	387	2,041	696	131		4,921
ENV-ADM	25	14	12		15		value more torio	41
ENV-ES ENV-EPS	25	1,553 78	368	1,967 55	648 15	126 10	1976 Mar 2010	4,688
ENV-AES ENV-ECS	5	656 355	165 167	1,145 256	342	39 77		2,352
ENV-FOR ENV-PC	11	465	33	511 74	5			1,025
EXTERNAL AFFAI						0		
EA EA-CIA	their free first	4	68 68	alas alas alas	38	alline false man		110 110
CIDA IDRC	17	9 67	26 16	3 48	17	WPD shale black	aggy MIP data	56 217
FINANCE	8	120	20	22	43	100 Mar 107		212
FIN-FEP	8	120	20	22	43		470 Nov 200	212
FISHERIES AND F&O	OCEANS 5	863	90	763	147	249		2,122
F&O-FM INDIAN AFFAIRS	5 8 NORTHERN	868	90	763	147	249	000 and 100	2,122
IAND		69 2	10	12	7	3		100
IAND-IIA IAND-NA	1	67	28	11	7	3		96
INDUSTRY TRADE	AND COMMEN	ICE 5	180	1	88	1		275
ÎTC-TI ITC-TOUR	100 000 000	5	174	1	88		400 400 100	268 4
ITC-GO		400 (bat are	NN	NO 445. 189.				3

## FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES

#### BY DEPARTMENT OR AGENCY, BY CATEGORY, 1979-80

( FULL-TIME EQUIVALENT PERSON-YEARS )

DEPARTMENT OR		SCIENTIFIC &	ADMIN. & FOREIGN		ADMINIS- TRATIVE			
AGENCY	EXECUTIVE	PROFESSIONAL	SERVICE	TECHNICAL	SUPPORT	OPERATIONAL	MILITARY	TOTAL
JUSTICE	2	1.4	0		27			40
JUST JUST-ADM	2	14	9	1	23			49 36
JUST-CUIO	2		5		6			13
CHRC	3	1	2 4		2 29		and the same	5 37
LABOUR								
LAB NATIONAL DEFEN	CE 1	24	28	19	36		040-040 Hell	107
NDEF	12	541	102	502	274	271	193	1,895
NDEF-SER NATIONAL HEALT	12 LICITED	541	102	502	274	271	193	1,895
NHW	13	566	53	273	253	29		1,186
NHW-ADM	52	47	15 12	16	28 17			111 51
NHW-HSS NHW-MS		20	12		1 r		and the line	3
NHW-HP	5	492	21	252	205	29	200 000 ius	1,004
NHW-IS MRC	6	6	5	4	24			17 40
NATIONAL REVEN	UE							
NREV-TAX	22	27	68 68	22	71		and the second	170
POST OFFICE	6	C1	00	6				
PO PRIVY COUNCIL	2	IØ	2	6	5			25
PRIVY COUNCIL								-
COL	1		24		5	alar and door	me me me	30
ECC PUBLIC WORKS	4	94	37	14	79	and and the		228
PW		41	7	9	1			58
PW-PTS CMHC	10	41 59	72	9 51	25			58
NCC	3	18	Ī	14	4	6		46
REGIONAL ECONO REE	MIC EXPANSI	10N 12	1	3	7	Agent (see alle)		23
SCIENCE AND TE	CHNOLOGY							
ST	21	1,092	76	981	47	292		3,160
NRC NRC-SIR	5	1,040	208 170	980	582 462	288	me me me	2,945
NRC-STI		52	38	1	120	4		215
NSERC	4	13	23	13	32		Not one list	61 63
SECRETARY OF S								
SECS-OL	Annual Allanda walata	3	143	2	57			205
SECS-ES	And \$10.0 art	2	1	-	1			4
SECS-TRA SECS-CIT		and and are	141		56		ma ma etc.	197
PSC		4	1	2	1		tere ette atte	3
SOLICITOR GENE	RAL	17.0						
SGEN SGEN-ADM		30 30	3		10 10	1		44
RCMP								
SUPPLY AND SER	VICES		z	No. 104 107	2	and 100 MW		4
SS-SUPP	0		2		2	are tax me		4
STCAN TRANSPORT	28	763	668	725	2,311	39		4,534
TPT	2	179	0	12	3	12		207
TPT-ADM	Ø	54		Ø	Ø	0	and disk land	55
TPT-MAR TPT-AIR	1	116	0	7	2	12		28 122
TPT-SUR		2						2
CTC TREASURY BOARD	2	50	1	12	16	ann (our fait		81
TB	19	18	135	2	45			219
	19	18	135	2	45			219
TB-ADM	13							

## FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEFARTMENT 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					47.0			
AGR AGR-ADM	5	1,057	130	1,057	439	1,365		4,053
AGR-DEV		38	28	4	49			119
AGR-RI AGR-CGC	5	949 50	100	938 56	377 4	1,327		3,696
CDC		20	1	59	9	3		92
CLFB	٥	1			1			S
COMMUNICATIONS COMM	17	246	75	152	115	66	gang dan 1999	671
COMM-COMM	17	239	74	152	113	66	www.mass.flood	661
COMM-AC CBC		7 19	1	31	N N			10 57
CRTC		13	5	4	6			17
NFB			38	8 46	1	2		12 500
NLIB NMUS	8	192	284	281	220 161	250	programmer and	1,006
PA	- 100 m	113	3	68	82			266
SSHRC CONSUMER AND C	ORPORATE AF	PAIRS 2	50		49			105
CCA	5	213	19	26	173	3		439
CCA-ADM	3	5	2		3		and the state	13 75
CCA-CON CCA-COR	1	25 172	10 7	26	10 157			337
CCA-CICP		I1			3	the star		14
ECONOMIC DEVEL	OPMENT 14	14	3	1	10			42
EMPLOYMENT & I	MMIGRATION							
EI-ADM	6	79 79	9	26 26	61 61	100 000 000		181 181
CEIC		86	9	11	58		Order annue Marco	164
ENERGY MINES &		000	60	071	200	100		2,392
EMR EMR-ENER	10	972 45	62	871	309	168		49
EMR-MES	7	927	62	871	308	168		2,343
AECB	17	643		818	325	569		7 2,372
NEB	1	38	1	7	10			57
ENVIRONMENT	20	1 676	205	3 979	707	171		4,913
ENV-ADM	28	1,636	385 13	2.030	703	131	ere are inte	4, 515
ENV-ES	28	1,547	366	1,956	646	126	dard ware biller	4,668
ENV-EPS ENV-AES	25	78 650	3 164	55	15 339	10		162
ENV-ECS	8	354	167	256	286	77		1,148
ENV-FOR	13	465	32	509	6	5	eau eau linh	1,025 194
ENIZ-PC EXTERNAL AFFAI	RS	75	7	74	33	J	date max that	194
EA		7	75		36	494 MIT 1044		118
EA-CIA CIDA	1	7	75 26	3	36 18			118 56
IDRC	7	69	17	54	81			227
FINANCE	10	a 1993 (Prin	10	2.1	50			222
FIN-FEP	10	135	19 19	21 21	38 38	With sale aller	the life up	223
FISHERIES AND	OCEANS							
F&O	55	868	90 90	784 784	147 147	249 249	100 000 000	2,143
F&O-FM INDIAN AFFAIRS		868 I DEVELOFMENT	50	104		640		
IAND	1	68	10	11	5	4		97
IAND-IIA IAND-NA		2 67	2 8	1	0 5	4		5 93
INDUSTRY TRADE	AND COMMER	CE		10		-		
LTC		5	226 220	1	111	1		344 337
ÎŤC-TI ITC-TOUR		5	3		111	1		4
ITC-GO	min fore war		3	This yes, blue				3

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

FULL-TIME EQUIVALENT PERSON-YEARS )

DEPARTMENT ON AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
JUSTICE	a film and the set of any and the film			o noo add gag upb dde nor ann ann upb die ddi ga		a dala any unit over the any difficulty data any spin of	and the same one of the same any and the file	417
JUST JUST-ADM	1	15	10		21 16			47 35
JUST-CUIO	1		6	their state area	5			12
CHRC LRC	3	1	2	and the same	28			5 36
LOBUR	3	24	30	20	36			112
HATIONAL DEFEN		E 19 7	100	EQA	975	200	100	1 074
NDEF-SER	12 12	577 577	102 102	504 504	273 273	268 268	198 198	1,934 1,934
HATIONAL HEALT	H AND WELFF 13	671	56	359	252	30		1,380
HHW-ADM	5	47	15	16	28		9	111
HHW-HSS HHW-MS	3	24	14	1	18			59 31
FHHH-HP	5	570	22	338	197	30		1, 162
INHW-IS MRC	1	6	5	4	3	400 and 900		17
HETIONAL REVEN	5 IUE	C	0		24	app are the		39
INNEV	2	31	65	4	88			190
HREV-TAX POST OFFICE	5	31	65	4	88			190
PEINY COUNCIL	2	11	2	3	8			26
PC					800 yes and	-		
ECC	1	66	25 20	11	4 57			30 157
PUBLIC WORKS	0			1.1	01			101
PM-PTS		<b>45</b> 45	777	9	1			63
CMHC	IØ	61	2	61	25			63 159
NCC ECONOL ECONO	MIC EVENE	14	1	12	З	5		37
FIGIONAL ECONC	1	12	3	3	8			26
SCIENCE AND TE		11	69	5	40	2		150
WRC	21	1,095	206	981	48 551	287		156 3,125
HRC-SIR	5	1,036	174	980	435	283		2,913
NRC-STI NSERC		59	32 29	1	116 41	4		212 75
50	3	16	19	5	21	ALC 104 104		64
SECRETARY OF S	TATE	3	133	2	54	640 AV7 (11)		192
SECS-OL		1						1
SECS-ES SECS-TRA	and and	2	131		53			184
SECS-CIT		400 WE 100	1 1	2				3
PSC SOLICITOR GENE	Pol					400 MPR 200		
SGEN SER		30	3		10	1		44
SGEN-ADM POMP		30	3		10	1		44
SUPPLY AND SER	VICES		Garry many share		agent man			
SS CUDD	0		2		2			4
SS-SUPP STCAN	29	739	2 769	720	2,303	59		4,619
TEHLEPORT								
TH T-ADM	5	141	8	49 Ø	9 Ø	29 Ø		241 48
TPT-MAR	1	47	ages and add	7	3	12		27
T-AIR T-SUR	4	88	7 0	42 0	7	17		164 2
CTC	2	40	1	10	15			68
TE TE BOARD	27	23	139	3	40			232
TB-ADM	27	23	139	3 3	40			232
TOTAL	298	10,214	3,171	9,070	7,084	3,489	198	33,524

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

DEPASTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AGEICULTURE AGE AGE-ADM	6	1,073	132	1,047	440	1,377		4,075
AGE-DEV AGE-RI DE-CGC CDC CLFB	  0	37 965 51 20	28 102 1	7 924 58 58	47 379 4 10	1,339		119 3.715 149 92 2
COMMUNICATIONS COMM COMM-COMM		235 228	75 74	149 149	109 108	66 66		651 642
COMM-AC CBC CRTC FB LIB	4	7 19 2 199	I 1 5  41	30 4 7 39	1 2 5 1 234			9 56 16 10 517
TA FA FOHRC CONTRACTOR	9	103 117 2 FAIRS	195 3 50	270 76	176 81 49	222		975 279 105
CCH-ADM CCH-ADM CCH-CON CCH-COR CCH-CICP	6 3 2 1	194 5 20 158 11	35 6 10 19	29 29	186 3 13 167 3	3		453 17 77 345 14
ECONOMIC DEVEL ENPLOYMENT & 1	OPMENT 14 MMIGRATION	14	3	1	10	ana waa ahaa	Main Ann	42
ËI EI-ADM CEIC	66	79 79 86	9 9	26 26 11	61 61 58	and and an		181 181 164
EMERGY MINES 8 EMR-ENER EMR-MES ABCB AECL HEB	RESOURCES 11 4 7  17 1	1,071 129 942 6 666 39	66 66 1	822 822 834 7	302 1 301 1 334 10	169 169 576	400, 200, 400 400 400 40 400 40 400 40 40 40 40 40 40 40 40	2,441 134 2,307 2,427 58
ENVIRONMENT ENV-ADM UNV-ES ENV-EPS ENV-ECS ENV-ECS ENV-ECS ENV-PC	42 13 29 25 8 14	1,643 15 1,551 77 651 354 469 77	381 374 3 171 167 33 7	2,045 16 1,955 1,130 256 514 74	692 4 655 15 348 286 6 33	133 127 10 40 77 6		4,935 47 4,691 2,345 1,148 1,037 197
ENTERNAL AFFAI EA SA-CIA CIDA IDRC FIMANCE	RS1 7	7 7 8 76	72 72 27 17	3 53	38 38 18 86			117 117 57 238
FIN-FEP	I 1 1 1	145 145	21 2 I	24 24	35 35			236 236
FISHERIES AND F&O F&O-FM INDIAN AFFAIRS	4	867 867 DEVELOPMENT	89 89	784 784	157 157	310 310		2,211 2,211
IAND IAND-IIA IAND-NA INDUSTRY TRADE	22	69 2 67	9 1 8	10 0 10	5	<u>4</u> 4	abb das das	97 5 93
ITC ITC-TI ITC-TOUR ITC-COUR		5	226 220 3	1		1		344 337 4

#### FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, BY CATEGORY, 1981-82

FULL-TIME EQUIVALENT PERSON-YEARS

Mist 108         1         21         9          20          14          13           Mist - ALM          21         9          14          14           Mist - ALM          14          20          13           Mist - Step         3         24         31         20          14          36           Mist - Step         12         577         102         504         224         267         199         1.355           Mist - Step         12         577         102         504         224         267         199         1.355           Mist - Step         23         315         31         251         32         15         31         39	DEPARTMENT OR INGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
JUST FADM          21         3          14          38           JUST FADM          1          23          13           JUST FADM          1          23          13           JUST FADM          1          13         37          11           JUST FADM	JUSTICE								
JUEPT-CUIO         1	JUST ODM	1	21	9					51
CHAC         I         2         III         2         IIII         3           MARDING         4         1         4         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				5					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	CHRC	A 	1	ž					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	LRC	4	1	4	100 W/ AN	29			38
HORE         12         577         102         504         274         267         199         1.9355           HURP-RE         577         102         504         274         267         11         199         300          199         1.9355           HURP-RE         5         2         5          2.4          2.335          2.335           HURP-RE         3.93         7.3         2         101          2.1         2.335           HURP-RE         2         11         2         3         9          2.1           StropPrice         2         11         2         3         5 <t< td=""><td>1.1.4</td><td></td><td>24</td><td>31</td><td>20</td><td>37</td><td></td><td></td><td>116</td></t<>	1.1.4		24	31	20	37			116
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			577	192	584	274	267	199	1,935
New         14         691         58         373         251         30	LOEF-SER	12	577						
HALL-HADM         5         47         15         16         28			691	58	373	251	30		1.416
MH-MS		5	47	15		28			111
HH-HP         5         569         23         351         199         30          1.197           HH-HS         5         2         6          24           1.197           HH-HS         5         2         6          24           23           MEDA-TRX         1         39         73         2         101          21           NGT OFFICE         2         11         2         3         9          27           NGT OFFICE         2         11         2         3         9          27           NGT OFFICE         2         11         2         3         9          27           106         61         2         61         25          143           11         67         5         53         2          159           250         1080         981         445         226		3	23						
MHT 15         1         6         5         4         3          24          17           MHT 15 AL REVENUE         1         39         73         2         181          21          22          21         216           MHT 15 AL REVENUE         1         39         73         2         181           22         11         2         3         9          216         216         216         216         217         35          217         35          217         35          144         3         112         3         5          144         12         3         5          144         12         3         5          163         3         167         3         167         3         167         3         167         3         167         3         167         3         167         3         167         3         167         3         167         3         167         3         167         3         167         3         167         3         167									
HEC         5         2         6          24          33           METLONAL ERVENUE         1         39         73         2         101           216           METLONAL ERVENUE         1         39         73         2         101           216           METLONAL ERVENUE         2         11         2         3         9           27           METLONAL EXPONCIL         1          25          4           27           METLONAL EXPONCIL         3         63         25         17         35          143           PH-PTS          42         9         9         2          143           STENCE AND TECHNOLICY         114         1         3         10          28           TENCE AND TECHNOLICY         14         1         3         10          28           TENCE AND TECHNOLICY         14         1         3         10          28           TENCE AND TECHNOLICY         14         1		1							
HER-TAK       1       39       73       2       181         216         NET OFFICE       2       11       2       3       9         216         NOT OFFICE       2       11       2       3       9         216         NOT OFFICE       2       11       2       3       9         216         Not OCUNCIL       1         25         4         27         Not OCUNCIL       3       63       25       17       35        143         PI-PTS        42       9       9       2        143         PI-PTS        42       9       9       2        143         PI-PTS        42       9       9       2        143         PI-PTS        14       1       112       3       10        28         PI-PE       23       1115       215       215       985       228		ŝ							
HEEP-TAX         1         39         73         2         181          216           DOCTOFICE         2         11         2         3         9          27           PI-Y COUNCIL            27           27           PI-Y COUNCIL              27           PI-YTS          42         9         9         2           36           Counce         18         61         2         61         25          143           PI-PTS          42         9         9         2          143           Counce         2         14         1         12         3         5          377           StationAL Economic Expansion           28          28          28           StationAL Economic Expansion           28          28          28         29         3         112 <th< td=""><td></td><td>JE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		JE							
TOST OFFICE       2       11       2       3       9         27         TOTAL       1        25           27         TOTAL       1        25           28         TOTAL       1        25          28         TOTAL       42       9       9       2         63         TOTAL       42       9       9       2         63         TOTAL       28       14       1       26       12       25         143         Strence AND TECHNOLOCY       14       1       3       10         286         TACE       5       1.115       215       982       226        286         TACE       5       161       13        122       4        286         TACE       5       16       19       5       21        286         Strence		1		73					
Fillwy Council       1        25        4        136         PUELIC WORKS       3       63       25       17       35         136         PUELIC WORKS        42       9       9       2         63         PUELIC WORKS       14       1       12       3       10         28         PUELIC WORKS       5       1.051       180       981       4433       286        2.946         PUELIC T        1       1        1.82        2.946         PUELIC T        3       122       3	FOST OFFICE	2	1.1			0			
1          25          4           143           PH-PTS          42         9         9         2           143           PH-PTS          42         9         9         2           63           PH-PTS          42         9         9         2           63           PH-PTS          42         9         9         2           63           PH-PTS          44         1         12         3         5          37           PH-PTS          23         1.115         215         982         565         290          28           PH-ST          64         35         1         122         4          226           PH-ST          16         18         5         21          226           PH-ST          1          1          21          22		6	1 1	2	3				GI
3         63         25         17         35           143           PH-PTS          42         9         9         2           63           PH-PTS         10         61         2         61         25           63           PH-PTS         14         1         12         3         5          37           RECIONAL ECONOMIC EXPANSION         14         1         13         10          73           REE         1.41         67         5         53         2          161           STENCE AND TECHNOLOGY         14         13         10          286          2.946           FST         1.051         180         981         443         286          2.946           FST         1.61         13          45          161           STATARY OF STATE          1          122          128           STATARY OF STATE          1          169          145			and one offe	25	ano ano ano				70
PH-PTS          42         9         9         2           63           PH-PTS          42         9         9         2           63           PH-PTS          10         61         25           159           REF         14         12         3         5          28           STENCE AND TECHNOLOGY         11         67         5         53         2          28           FEE         1.051         180         981         443         2266          27           FST          1.051         180         981         443         2266          27           FST          1         11         122         3         50          28           Stread          3         122         3         50          28           Stread          3         122         3         50          28         50          21          21	ECC.	3	63	25					
THUPTS          42         9         9         2           63           ACCOMMIC EXPANSION         2         14         1         12         3         5          137           RECOMMIC EXPANSION         14         1         12         3         5          37           RECOMMIC EXPANSION         14         1         3         10           28           SECIONAL ECONOMIC EXPANSION         14         1         3         10           28           TENCE AND TECHNOLOGY         25         1.115         215         982         565         290          3.172           THC STIT          64         35         1         122         4          2.946           SECTOR STATE         16         18         5         21          65           SECTOR STATE         122         3         50          178         24           SECTOR STATE         122         3         50          178         24           SECTOR STATE         1         1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>00</td>									00
Image: Construct Series of the series of						2			
11       12       3       5        57         12       14       1       12       3       5        57         12       14       1       3       10         28         11       67       5       53       2        3172       1172         11       67       5       53       20        2161       1172       1172         11       67       5       53       2        3172       1172       22946        22946         11       64       35       1       122       4        226         11       5       1       122       3       50        226         122       3       50        1        161       16       178         122       5       55       11       110       1        178       178         123       55       576        1        178       189       11       110       11       117       143       110       110		10		ž		25			
EEE         1         14         1         3         10           28           STENCE AND TECHNOLOGY         11         67         5         53         2          161           C-SIR         5         1.051         215         982         565         290          2.946           C-SIR         5         1.051         180         981         443         286          2.946           C-SIR          64         35         1         122         4          2.946           CSTS-OL         4         1         31          45           81           SCS-OL          1          1          178          49          178           SCS-S-TRA          120          49          169          169           SCS-CIT          1         2           169           169           SCS-CIT          1         10         1<	800	2	14	1		3	5		
STERAGE AND TECHNOLOGY 23 11 67 5 53 2 161 15 11 25 1 051 180 981 443 286 2.946 16 18 981 443 286 2.946 16 18 5 21 81 16 18 5 21 81 17 81 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IC EXPANSI		1	3	10	the who also		28
INC       5       1,115       215       982       565       296	SELENCE AND TEC	CHNOLOGY					2		
AC-SIR       5       1.051       100       981       443       286	SI	23							
MC-ST1        64       35       1       122       4        226         NERC       4       1       31        45         81         ST ST TARY OF STATE       3       122       3       50         65         ST ST TRA        1        1        65         ST ST ST TRA        1        1        178         ST ST ST TRA        1       1        2        169         ST S	NRC-SIR							ano ma 191	
5         16         18         5         21           65           STSTARY OF STATE         3         122         3         500          1 <td< td=""><td></td><td></td><td></td><td>35</td><td>1</td><td>122</td><td></td><td></td><td>226</td></td<>				35	1	122			226
STETARY OF STATE         3         122         3         50          1          178           SUS-OL          1         1          1          2         1          2         1          4         2          4         2          4         2          4         3	HSERC						4884 MAR 4860		
STCS        3       1/22       3       50        178         STCS-OL       1        1        1        2         STCS-TRA        2       1        1        149         STCS-CIT        120        49        169         STCS-CIT        1       2         169         STCS-CIT        129       3        10       1          STCS-CIT        29       3        10       1        43         STCS-SCIT        29       3        10       1        43         STCS-SCIT        2        10       1        43         STCS-SCIT        2        2        44         STCS-SCIT       29       2	SECONTARY AF CT		16	18	5	21	200 - 0-1 Max	NAME AND ADDR	65
SPS-OL       1 <td></td> <td></td> <td>3</td> <td>122</td> <td>3</td> <td>50</td> <td></td> <td></td> <td>178</td>			3	122	3	50			178
LLS-TRA        120        49         169         SLLS-CIT        1       2           169         SLLS-CIT        1       2                                     43         SUPLY AND SERVICES       0        2        10       1        44         Supper       0        2        2        44         Supper       0        2        49        49        49        49        49        49        49			1		1		and 404 also		2
ILS-CIT       III       III       III       IIII       IIII       IIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			2						
SOL ITOR GENERAL       29       3        10       1        43         SUPLY AND SERVICES       2        10       1        43         SUPLY AND SERVICES       0        2        44         SUPLY AND SERVICES       0        2        4         SUPLY AND SERVICES       0        2        4         TARN       31       767       832       766       3.011       82        5.489         THT AND       31       767       832       766       3.011       82        5.489         THT ADM       0       48        7       3       12        49         THT ADM       0       48        7       3       12        27         TT ASPORT       1       0       0        27       3       12        27         TT ASP A       4       83       2       29       2       14        133         THT-SUR       2       40       1       10							and day has		
SEEN      29     3      10     1      43       SUPP     0      29     3      10     1      43       SUPPLY AND SERVICES     0      2      2      43       SUPP     0      2      2      43       SUPP     0      2      2      43       STAN     31     767     832     766     3.011     82      5.489       TH SPORT     31     767     832     766     3.011     82      5.489       TH SPORT     31     767     832     766     3.011     82      5.489       TH SPORT     31     767     832     29     2     14      49       TH ADM     0     48      7     3     12      27       TH AIR     4     83     2     29     2     14      133       TH SPAR     2     40     1     10     15      68       TH SPAR     25     17     146 </td <td>PSC</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>age and one</td> <td></td> <td></td>	PSC						age and one		
EN-ADM        29       3        10       1        43         SUPP       0          10       1        43         SUPPLY AND SERVICES       0        2         4         SUPP       0        2        2        4         TAN       31       767       832       766       3.011       82        5.489         THERORT       5       135       3       36       5       26        210         TPT-ADM       0       48        7       3       12        27         TPT-AIR       1       5        7       3       12        27         TT-SUR       4       83       2       29       2       14        133         TPT-AIR       4       83       2       29       2       14        133         TT-SUR       2       40       1       10       15        68         TB-ADM       25 <td></td> <td>RAL</td> <td>20</td> <td>-</td> <td></td> <td>10</td> <td>1</td> <td></td> <td>47</td>		RAL	20	-		10	1		47
SUPPLY AND SERVICES         0          2          2          4           S-SUPP         0          2          2          4           TAN         31         767         832         766         3.011         82          5.489           THAN         31         767         832         766         3.011         82          5.489           THT ADM         0         48          7         3         12          49           THT-ADM         0         48          7         3         12          27           THT-AIR         4         93         2         29         2         14          27           TT-AIR         4         93         2         29         2         14          133           TF-SUR         2         40         1         10         15          68           TB-ADM         25         17         146         2         42          232           TDTAL         322		and and a		38			1		
O         IIII         2         IIIII         2         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	RCMP								
SIMP         0          2          2          4           TAN         31         767         832         766         3.011         82          5.489           TIAN SPORT         5         135         3         36         5         26          210           TPT         5         135         3         36         5         26          49           TPT-ADM         0         48          1         0         0          49           TPT-ADM         0         48          7         3         12          27           TPT-AIR         4         83         2         29         2         14          27           TPT-SUR          0         0         0          1         1           TPT-SUR          2         40         1         10         15          68           TREASURY BOARD          25         17         146         2         42          232           TDTAL	SUPPLY AND SERV								
STCAN         31         767         832         766         3,011         82          5,489           TPT-ADM         0         48          1         0         0          49           TPT-ADM         0         48          7         3         12          49           TPT-MAR         1         5          7         3         12          27           TPT-AIR         4         83         2         29         2         14          133           TPT-SUR          0         0         9          14          133           TPT-SUR          0         0         9          14          133           TPT-SUR          0         0           68           TPE-ADM         25         17         146         2         42          232           TB-ADM         25         17         146         2         42          232           TOTAL         322	SS-CIIPP			2		2 2			4
TIPE SPORT       5       135       3       36       5       26        210         TPT ADM       0       48        1       0       0        49         TPT-MAR       1       5        7       3       12        27         TT-AIR       4       83       2       29       2       14        27         TT-AIR       4       83       2       29       2       14        133         TT-SUR        0       0       0        1       16         TT-SUR       2       40       1       10       15        68         TB       25       17       146       2       42        232         TB-ADM       25       17       146       2       42        232         TDTAL       322       10.424       3.258       9.085       7.844       3.568       199       34.699	STLAN		767	832	766	3,011			
TPT-MAR     1     5      7     3     12      27       TPT-AIR     4     83     2     29     2     14      133       TPT-AIR     4     83     2     29     2     14      133       TPT-SUR      0     0     0       1       Q     40     1     10     15       68       TREASURY BOARD     25     17     146     2     42      232       TB-ADM     25     17     146     2     42      232       TDTAL     322     10.424     3.258     9.085     7.844     3.568     199     34.699	TRANSPORT								
TPT-MAR     1     5      7     3     12      27       TPT-AIR     4     83     2     29     2     14      133       TPT-AIR     4     83     2     29     2     14      133       TPT-SUR      0     0     0       1       Q     40     1     10     15       68       TREASURY BOARD     25     17     146     2     42      232       TB-ADM     25     17     146     2     42      232       TDTAL     322     10.424     3.258     9.085     7.844     3.568     199     34.699	TET OBM			3		5			
TT-AIR     4     83     2     29     2     14      133       TT-SUR      0     0     0      1     1       CT     2     40     1     10     15       68       TPEASURY BOARD     25     17     146     2     42       68       TB-ADM     25     17     146     2     42       232       TOTAL     322     10.424     3.258     9.085     7.844     3.568     199     34.699	TT-HDM	0				0			
TPT-SUR          0         0         0         0          1           CTC         2         40         1         10         15           68           TREASURY BOARD         25         17         146         2         42           68           TB-ADM         25         17         146         2         42          232           TOTAL         322         10.424         3.258         9.085         7.844         3.568         199         34.699		4		2		2			
TPEASURY BOARD         25         17         146         2         42           232           TB-ADM         25         17         146         2         42           232           TDTAL         322         10,424         3,258         9,085         7,844         3,568         199         34,699	TPT-SUR		0	Ø	Ø		÷		1
TB         25         17         146         2         42           232           TB-ADM         25         17         146         2         42          232         232           TOTAL         322         10,424         3,258         9,085         7,844         3,568         199         34,699		5	40	1	10	15	ana (*** 10.7		68
TOTAL 322 10,424 3,258 9,085 7,844 3,568 199 34,699		25	17	146	2	42	100 ans 107		232
		25			2				232
	TOTAL	355	10,424	3,258	9,085	7,844	3,568	199	

#### FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

( FULL-TIME EQUIVALENT PERSON-YEARS )

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1979-80								
INTRAMURAL R&D	81	5,968	710	4, 785	1,855	2,670	172	16,233
INTRAMURAL RSA	174	3,782	1,928	4,115	4,914	796	11	15,719
ADMIN. OF EXTRAMURAL PROGRAMS	28	311	386	45	367	26	10	I. 173
TOTAL	283	10,053	3,023	8, 945	7, 136	3, 491	193	33, 124
198 <b>0-8</b> 1								
INTRAMURAL R&D	83	6,006	708	4.809	1,806	2,664	177	16,253
INTRAMURAL RSA	187	3,895	2,019	4,221	4, 879	799	1 1	16,010
ADMIN. OF EXTRAMURAL PROGRAMS	28	313	444	41	488	26	10	1,261
TOTAL	298	10,214	3, 171	9,070	7,084	3,489	198	33,524
1981-82								
INTRAMURAL R&D	93	6,202	707	4,807	1,807	2,685	178	16, 478
INTRAMURAL RSA	199	3,906	2,105	4,235	5,627	857	11	16,940
ADMIN. OF EXTRAMURAL PROGRAMS	30	316	446	43	411	26	10	1, 282
TOTAL	322	10, 424	3, 258	9,085	7,844	3, 568	199	34, 699



# **Natural Sciences**

## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY PERFORMER, 1979-1982

#### (\$ THOUSANDS)

PERFORMER	1979-	80	1980-	81	1981-	82
	\$	×	\$	%	\$	*
INTRAMURAL	901,113	( 68.3)	1,005,732	( 58.1)	1,149,091	( 58.0)
INDUSTRY	259, 161	(17.3)	312,204	( 18.0)	361,530	( 18.3)
UNIVERSITIES	215,578	( 14,4)	273,320	( 15.8)	299,717	C 15.D
NON-PROFIT INSTITUTIONS	11,518	( 0.8)	14,019	( 0.8)	15, 126	( 0.8)
PROVINCIAL & MUNICIPAL	61,196	( 4.1)	77,073	( 4.4)	103,834	( 5.2)
FOREIGN	34, 542	( 2.3)	39,457	( 2.3)	42,218	( 2.1)
OTHER CANADIAN	11,426	( 0.8)	10,614	( 0.6)	9,206	( 0.5)
TOTAL	1, 494, 534	(100 0)	1,732,419	(100 0)	1,989,722	(100.0)
	., 404, 004		171 567 415		210001100	(100.0)

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-FROGRAM COSTS

#### FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES TOTAL ALL COMPONENTS

#### FISCAL YEAR 1979-80

#### (\$ THOUSANDS)

	INTRAMEL	CANADIAN INDUSTRY	CANADIAN UNIVERSITY	CANADIAN N-P INST	PROP. MUN. GOVERNMENTS	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	471,156 722 17,922 0 1,150 22,119 74,656	99,064 99,064 0 112,812 1,493 0 0	0 12,634 0 184,416 3,507 0 0	9 3,700 5,156 34 0 0	0 608 0 53,173 0 0 6	0 1,862 0 26,007 3,866 0 0 0	8 3,083 1,066 102 0 0	471,156 121,673 17,922 382,630 10,152 22,119 74,656
SUB TOTAL R&D	587,725	213, 369	200,557	8,890	53,781	31,735	4,251	1,100,308
DATA COLLECTION INFORMATION SERVICES TESTING & STANDARDIZATION FEASIBLITY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA	182,766 60,253 26,677 2,216 915 11,805 4,269 24,484	10,859 826 540 33,403 10 154 0 0	2,114 251 628 527 11,248 261 0	927 922 11 186 144 438 Ø 0	3,616 1,225 46 2,528 0 0	27 903 70 104 1,703 0 0	2,189 1,391 112 64 2,955 464 0 0	202,498 65,771 28,030 36,546 16,978 15,650 4,269 24,484
SUB TOTAL RSA	313,388	45,792	15,021	2,620	7,415	2,807	7,175	394, 226
TOTAL	901, 113	259, 161	215,570	11,518	61, 196	34, 542	11,426	1,494,534

#### FISCAL YEAR 1980-81

	INTRAMEL	CANADIAN INDUSTRY	CANADIAN UN 1/ERSITY	CANADIAN N-P 1NST	PROM. MUN. GOMERNMENTS	FORE I GN PERFORMERS	OTHER PERFORMERS	TOTAL
IN-HOUSE RaD RAD CONTRACTS SUPPORTING CONTRACTS RED GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTPAMURAL RaD CAPITAL - RaD	528, 987 865 24, 171 1,294 28,930 80,318	122, 342 0 135, 815 2, 346 0 0	0 15,374 0 232,331 5,881 0 0	0 5,020 5,722 0 9 9	0 727 6 67,408 0 0 0	2,035 0 29,380 4,445 0 0	0 3,249 0 1,032 93 0 8 0	528,987 149,611 24,171 471,680 14,059 28,930 80,318
SUB TOTAL R&D	664, 565	260,503	253,586	10.742	68,135	35,860	4,373	1,297,764
DATA COLLECTION INFORMATION SERVICES TESTING & STANDARDIZATION FEASIBILITY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL PSA CAPITAL - RSA	198,844 63,964 27,193 2,588 1,867 14,720 4,994 27,797	12.418 1.372 1.177 36.089 270 375 8	2,071 283 570 271 16,230 309 20 8 0	1,108 1,194 71 260 75 569 0 0	4,089 2,278 0 10 2,561 0 8	23 855 110 479 2,130 0 0	1,974 1,497 89 421 1,954 306 0	220,527 71,443 29,210 40,108 21,736 18,840 4,994 27,797
SUB TOTAL RSA	341, 167	51,701	19,734	3,277	8,938	3,597	6,241	434, 655
TOTAL	1,005,732	312,284	273, 320	14,019	77,073	39, 457	10,614	1,732,419

(\$ THOUSANDS)

#### FISCAL YEAR 1981-82

	INTRAMEL	CANADIAN INDUSTRY	CANADIAN UNIVERSITY	CANADIAN N-P INST	PROV. MUN. GOVERNMENTS	FORE1GH PERFORMERS	OTHER PERFORMERS	TOTAL
IN-HOUSE R&D R&D CONTRACTS SUPPORTING CONTRACTS R&D GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTRAINRAL R&D CAPITAL - R&D	618,080 996 27,575 0 1,500 32,850 91,589	139,616 161,093 2,732 0 0	8 16,081 249,226 9,089 0 0	8 5,417 6,608 8 8 8	1,390 89,390 89 0 0 0	2,195 2,195 30,663 4,870 0 0	0 3,233 0 950 89 0 0	618,080 168,928 27,575 537,922 18,200 32,850 91,509
SUB TOTAL RED	772,510	303,441	274, 316	12,017	90,780	37,728	4,272	1,495,064
DATA COLLECTION INFORMATION SERVICES TESTING & STANDARDIZATION FEASIBILITY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA	220, 254 75, 360 29, 968 3, 456 1, 112 13, 163 5, 985 27, 283	13,327 1,583 1,470 41,094 240 375 6	2,285 304 792 353 21,355 312 0	758 1,378 280 55 562 0 9	4,439 6,034 9 50 11 2,520 0 0	26 914 115 471 2,964 8 0	2,819 1,336 10 430 37 302 0 0	243,908 86,909 32,431 46,134 25,774 17,234 5,985 27,283
SUB TOTAL RSA	376,581	58, 989	25,401	3,109	13,054	4,490	4,934	485,658
TOTAL	1,149,091	361,530	299,717	15, 126	103, 834	42,218	9,206	1,988.722

#### FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY

DEPARTMENT OR AGENCY		1979-80			1980-81	ter 100 fild and das dap and das and fild sou	~~~~~~~~	1981-82	
AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE	133,991	8,409		143,486	7,539		161,465	6,409	
AGR-DEV AGR-RI AGR-CGC CDC CLFB		3,134 3,776 1,499	3, 134	136,310 5,673 1,503	3,212 2,637 1,690	3.212	152,256		3,729 153,074 7,556 3,515
COMMUNICATION COMM COMM-COMM	5 53,483 53,483	6	53, 489 53, 489	65,573 65,573	29 29	65,602 65,602	50, 477 50, 477	34 34	50,511 50,511
CBC CRTC		201	9	ano pallo filad		ana data ana. Mar data data anga han ana	ana muu aan	5000 anno 1000 10 5000 anno 1000	
NFB NLIB MMUS	1,251	16,828	499 18,079	412	20,011	636 21,093		242	698 20,832
PA SSHRC CONSUMER AND	CORPORATE	AFFAIRS		tinda kalad teter			612 - 622 - 624		
CCA CCA-ADM CCA-CON		9,613	9,61 <b>3</b> 1,504	that that our	11,205	11,205	dania akii saa	12,088	12,088
CCA-COR CCA-CICP ECONOMIC DEVE:		ware anno diffe	8,109	Webs Open mugd	AREA WHEN AREA	9,527	diller finite unve		10,238
ED EMPLOYMENT & E I	IMMIGRATIC	N			And any first	ware land ware			
EI-ADM CEIC					ana wax		and has and		
EMR-ENER EMR-MES AECB AECL	123,028 58,639 64,389 575 75,410	34,078 387 33,691 13,536	59,026 98,080 575 88,946	160,696 87,652 73,044 768 83,084	34,288 15,471	195, 452 88, 120 107, 332 768 98, 555	229,163 147,487 81,676 851 93,267	40,206	111,516
ENVIRONMENT ENVIRONMENT ENV-ADM ENV-ES ENV-ES ENV-AES ENV-ECS ENV-FOR ENV-PC	69,773 417 69,039 4,316 11,657 16,946 36,120 317	1,336 135,910 898 133,904 2,759 91,180 36,299 3,666 1,108	1,336 205,683 1,315 202,943 7,075 102,837 53,245 39,786 1,425	80,972 399 80,224 5,163 12,114 17,122 45,825 349		8,134	94, 173 432 93, 359 5, 348 13, 876 20, 430 53, 705 382	1,571 175,040 1,189 172,510 2,822 120,060 45,040 4,588 1,341	1,571 269,213 1,621 265,869 8,170 133,936 65,470 56,293 1,723
EXTERNAL AFFA EA EA-C1A	185		ven find van	4444 4485 4488	There are not		400. 400. 100		ARMA 10007 ARMA
CIDA	8,500 17,822	23,687 775	32, 187 18, 597	8,595 19,590	24, 158 1, 223	32,753 20,813	9,620 23,037	27,043 1,370	<b>36,663</b> 24,407
FIN-FEP FISHERIES AND		man dala sana	alter dalle sine		60° 60° 60°	and and and	400 600 600	400 000 000	ana ana ana Anai kita
F&O F&O-FM INDIAN AFFAIRS	54,511 54,511	54,804 54,804 EN DEVELOR	109.315 109.315 MENT	56,684 56,684	56,219 56,219	112,90 <b>3</b> 112,90 <b>3</b>	63,205 63,205	53,200 53,200	116,405 116,405
IAND IAND-IIA IAND-NA	1,734	613	2,347	1,895	692 692	2,587	1,857	783	2,640
INDUSTRY TRADI			82, 184 80, 392	97,158 96,218	650 650	97,808 96,868	123,077 122,547	650 650	123,727 123,197
ITC-TOUR ITC-GO	1,792		1,792	940		940	530		530

## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80	a ma the first star can play and star		1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	R8.D	RSA	TOTAL	R&D	RSA	TOTAL
JUSTICE					a line and the state over the and the s				
JUST JUST-ADM									
JUST-CUIO									
CHRC				400 mm		many data Adda		-	
LRC LABOUR		the sum one	ngan ngan dalah	And ship time.	And any one				
LAB NATIONAL DEFE	INCE							an 197 Au	
NDEF NDEF-SER NATIONAL HEAL	84,758 84,758	750 750	<b>85,508</b> 85, <b>50</b> 8	<b>95,916</b> 95,916	780 780	<b>96,696</b> 96,696	107,415 107,415	834 834	108,249 108,249
NHW	13, 565	29,043	42,608	19,555	30,233	49,788	21,720	34,672	56, 392
NHW-ADM NHW-HSS NHW-MS NHW-HP	5,176 135 8,254	1,728	6,9 <b>04</b> 135 35,569	6,559 1,440 11,556	2,176 28,057	8,735 1,440 39,613	5,708 1,621 14,391	2, 183 32, 489	7,891 1,621 46,880
NHW-IS MRC	67,835	2,222	70,057	79,467	2,564	82,031	85,785	2,805	88, 590
NATIONAL REVE	HUE				-				
NREV-TAX POST OFFICE	1000 EP0 000			Anis (Sec					
PO PRIVY COUNCIL						data data vita			
PC	ann. maga 4864			1010 AND 1021					
COL ECC									
PUBLIC WORKS	0.551	2 100	C 240	1 200	4 050	0.010	1 100	0.040	2 452
	3,551 3,551 2,116	2,196 2,196 879	5,747 5,747 2,995	4,260 4,260 2,068	4,050 4,050 1,701	8,310 8,310 3,769	1,408 1,408 2,275	6,249 6,249 1,871	7,657 7,657 4,146
REGIONAL ÉCON	OMIC EXPAN	STON	AND OUR DEV				the set	Ann 1989 1970	
REE Science AND T ST		1,589	1,589		3,021	3,021		6,427	6,427
NRC NRC-SIR NRC-STI NSERC SC	170,607 170,607 110,300	30,802 17,234 13,568 10,748	201,409 187,841 13,568 121,048	201,107 201,107 147.028	36,284 20,077 16,207 16,176	237,391 221,184 16,207 163,204	232,072 232,072 159,908	42,076 22,850 19,226 22,108	274,148 254,922 19,226 182,016
SECRETARY OF	STATE								
SECS-OL									
SECS-ES				died with sum					
SECS-TRA	and gray hand		ana ava had	And Mark Solar	which gauge under	and had been			had this era
SECS-CIT PSC	hand with the								
SOLICITOR GEN	IERAL								
SGEN-ADM									
RCMP SUPPLY AND SE	STATES		31	130		130	342	50	392
SS	11,823	2,230	14,053	11,825	2,252	14,077	12,072	2,131	14,203
SS-SUPP STCAN TRANSPORT	11,823	2,230	14,053	11,825	2,252	14,077	12,072	2,131	14,203
TPT	13,645	13,488	27,133	16,413	11,415	27,828	19,246	9,325	28,571
TPT-ADM	6,908	1,066	7,974	7,993	1,183	9,176	10,311	1,128	11,439
TPT-MAR TPT-AIR	3,518	6,412 2,491	9,930 5,655	5,363 3,002	5, 593 4, 220	10,956	5,838 3,042	5,354	11,192
TPT-SUR	55	3,519	3,574	55	419	474	55	1	56
CTC TREACURY ROOT		All and an	0.00 MM						sure hand area
TREASURY BOAR TB TB-ADM	(D							-	NAME AND ADD
	a new day had had have don day they day								
TOTAL	, 100, 308	394,226	, 494, 534	1,297,764	434,655	1,732,419	1,495,064	485,658	1,980,722

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

#### FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

DEDAD THE UT		1 <b>97</b> 9-80			1980-81		**** **** **** **** **** *** *** **** ***	1981-82	
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE AGR	132,755	9,645	142,400	140,487	10,538	151,025	159,743	8,131	167,874
AGR-ADM AGR-DEV AGR-RI	3, 134 122, 103	9,642	3,134 131,745	3,212 128,413	10,534	3,212 138,947	3,729 144,946	8,128	 3,729 153,074
AGR-CGC CDC CLFB	4,686 2,832	3	4,686 2,835	5,673 3,189	4	5,673 3,193	7,556 3,512	3	7,556 3,515
COMMUNICATION COMM	15 38,717	14,772	53, 489	43,452	22,150	65,602	37,762	12 240	50 E11
COMM-COMM COMM-AC	38,717	14,772	53, 489	43,452	22,150	65,602	37,762	12,749 12,749	50,511 50,511
CBC CRTC			AND 100 AND						ann offe sees
NEB	490	9	499	623	13	636	683	15	698
NLIB NMUS PA	14, 129	3,950	18,079	16,864	4,229	21,093	16,636	4, 196	20,832
SSHRC ONCLASS	CORDOROTT	OFFOIDE	tear blim time	prop years made	count dates actu-	and this sect			
CONSUMER AND CCA	9,613	HFFHIKS	9,613	11,205		11,205	12,088		12,088
CCA~ADM CCA-CON	1,504	· · · · · · · · ·	1,504	1,678		1,678	I,850	yaya alkale Admi	1,850
CCA-COR	8,109		8,109	9,527		9,527	10,238		10,238
CCA-CICP ECONOMIC DEVI	TI OPMENT						And who was		almak Smare same
ED		war often Man	anyy 4848, salas				and test down		are also also
EMPLOYMENT &	IMMIGRATIO	N		and date and		and table server			
EI-ADM	hadin dunial samh		and all web					with gapp with	hards down often
CEIC ENERGY MINES	& RESOURCE	S				Anna and a server	gang data data	which which follow	
EMR	85,888	71,218	157, 106	97,322	98,130	195, 452	143,228	127,707	270,935
EMR-ENER EMR-MES	1,145 84,743	57,881 13,337	59,026 98,080	4,509	83,611 14,519	88,120 107,332	37,129	111,924 15,783	149,053 121,882
AECB	159	416	575	200	568	768	226	625	851
AECL NEB	67,410	21,536	88,946 1,336	74,720	23,835	98,555 1,425	86,005 1,571	25,511	111,516
ENVIRONMENT ENV	181,281	24,402	205,683	204,838	28,711	233, 549	236,579	32,634	269,213
ENV-ADM	1,315	Intel Sala and	1,315	1,579		1,579	1,621		1,621
ENV-ES ENV-EPS	178,974 4,392	23,969 2,683	202,943 7,075	202,168 4,816	28,236 3,318	230,404 8,134	233,758 4,933	32,111 3,237	265,869 8,170
ENV-AES	99,050	3,787	102,837	113,534	4,169	117,703	129,130	4,806	133,936
ENV-ECS ENV-FOR	47,424 28,108	5,821	53,245 39,786	48,275 35,543	5,967 14,782	54,242 50,325	58,268 41,427	7,202	65,470 58,293
ENV-PC	992	433	1,425	1,091	475	1,566	1,200	523	1,723
EXTERNAL AFFA	1180				And had we			that the same	
EA-CIA CIDA	494	31,693	32,187		32,197	32,753	629	36,034	70 007
IDRC FINANCE	2,996	15,601	18,597	3,515	17,298	20,813	4,070	20,337	36,663 24,407
FIN-FEP				and the own	addy dials were				
FISHERIES ANI	OCEANS				The bas ser	and and and	ANA UNU UNU		
F&0 F&0-FM	99,838 99,838	9,477 9,477	109,315 109,315	103,887 103,887	9,016 9,016	112,903 112,903	103,959 103,959	12,446	116,405
INDIAN AFFAIR			PMENT	100,001	2,610	112,905	103, 559	12,440	116,400
IAND IAND-IIA	1,529	818	2,347	1,746	841	2,587	1,858	782	2,640
IAND-NA	1,529	818	2,347	1,746	841	2,587	1,858	782	2,640
INDUSTRY TRAI	6,432	75,752	82,184	9,413	88,395	97,808	10,351	113,376	123,727
ITC-TI	6,360	74,032	80,392	9,363	87,505	96,868	10,296	112,901	123, 197
ITC-TOUR ITC-GO	72	1,720	1,792	50	890	940	55	475	530

## FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

## EV DEFARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	was and see out the first and off the
IN FINCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE									
JUST									
JUST-ADM JUST-CUIO			unite inter	and and out					
CHRC						And man upp	March Marks summ		
LABOUR					ena des era				the same over
LOB		-		400 Mill Ave-		Aud 707 unt			and the sum
MATIONAL DEFE	58,706	26,802	85,508	63,238	33, 458	96,696	68,700	39,549	108,249
HDEF-SER NATIONAL HEAL	58,706 TH AND WEI		85,508	63,238	33,458	96,696	68,700	39, 549	108,249
нны нны-арм	35,119	7,489	42,608	40,171	9,617	49,788	47,627	8,765	56,392
HHW-HSS	560	6,344	6,904	670	8,065	8,735	745	7,146	7,891
HHW-MS HHW-HP	135 34, 424	1,145	135	1,440	1,552	1,440	1,621 45,261	1,619	46,880
MHW-IS	1, 381	68,676	70,057	1,556	80,475	82,031	1,747	86,843	88,590
MATIONAL REVE								80,040	
HREV-TAX				and any date					
POST OFFICE	and the		400 film spec						
FILLY COUNCIL									
col				the serve want					
ECC				dad over him					
FUBLIC WORKS	3,077	2,670	5,747	3,944	4,366	8,310	5,511	2,146	7,657
FW-PTS CMHC	3,077	2,670	5,747	3,944	4,366	8,310	5,511 2,178	2,146	7,657
NCC								1,000	
RECIONAL ECON	OMIC EXPA	1,589	1,589		3,021	3,021		6, 427	6,427
SCIENCE AND T	ECHNOLOGY								
MRC	138,353	63,056	201,409	163,522	73,869	237,391	187,614	86,534	274,148
HRC-SIR	124,785	63,056	187,841	147,315	73,869	221, 184	168,454	86,468	254, 922
I RC-STI HSERC	13,568	118,775	13,568	16,207	159, 507	16,207	19,160	66 177,704	19,226
80.					1003 001	100, 104		1112104	100,010
SECRETARY OF	STRIE							upo Auto dana	
ECS-OL									
SECS-ES	and and		same Minis ablad		ann 1979		and that may	100 arts 400	And 1999 (Set
SECS-TRA SECS-CIT						adar ball para			
PSC	PROT			quy que blue					
SGEN	EKHL								
GGEN-ADM		-		pages datur datur			www. dollar store		
BUPPLY AND SE	RUICES	31	31	are	130	130	264	128	392
St	86	13,967	14,053	94	13,983	14,077	103	14,100	14,203
SS-SUPP STCAN	86	13,967	14,053	94	13,983	14,077	103	14,100	14,203
TE HNSPORT TPT	17,393	9,740	27,133	17,277	10,551	27,828	15,647	12,924	28,571
TPT-ADM	683	7,291	7,974	1,377	7,799	9,176	1,215	10,224	11,439
TPT-MAR	9,930		9,930	10,956		10,956	11, 142	50	11, 192
TPT-AIR TPT-SUR	3,256	2,399 50	5,655	4,520	2,702 50	7,222	3,284	2,600	5,884
TC				na fin car					
TEASURY BOAR				ANA 100 1707					
TB-ADM									
TOTAL	901,113	593, 421	1,494,534	1,005,732	726,687	1,732,419	1,149,091	831,631	1,980,722

IN INTRAMURAL EXPENDITURES DO NOT INCLUDE HON-PROGRAM COSTS

#### INTRAMURAL, BY DEPARTMENT OR AGENCY

DEPARTMENT		1979-80			1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGEICULTURE AGE AGE-DEV AGE-RI AGE-CGC		5, 481 3, 134 851 1, 496	132,755 3,134 122,103 4,686 2,832	134,880 127,704 5,673 1,503	5,607 3,212 709 1,686	140, 487 3, 212 128, 413 5, 673 3, 189	1 <b>53</b> , 343 144, 134 7, 556 1, 653	6,400 3,729 812 1,859	159,743 3,729 144,946 7,556 3,512
CONVIUNICATION CONVI CONVI-COMM NEB NEBS	38,711 38,711 298 1,146	12,983	38,717 38,717 490 14,129	43, 423 43, 423 412 973	29 29 211 15,891	43,452 43,452 623 16,864	37,728 37,728 456 2,048	34 34 227 14, 588	37,762 37,762 683 16,636
COMSUMER AND CCA CCA-CON CCA-COR ECONOMIC DEVE		AFFAIRS 9,613 1,504 8,109	9,613 1,504 8,109		11,205 1,678 9,527	11,205 1,678 9,527		12,088 1,850 10,238	12,088 1,850 10,238
EMPLOYMENT & ENERGY MINES EMP EMP-ENER EMP-MES RECE FECL			85,888 1,145 84,743 159 67,410 1,336	66,934 4,081 62,853 200 70,898	30,388 428 29,960 3,822 1,425	97,322 4,509 92,813 200 74,720 1,425	105,751 35,683 70,068 226 81,676	37,477 1,446 36,031 4,329 1,571	143,228 37,129 106,099 226 86,305 1,571
ENVIRONMENT ENV-ADM ENV-ES ENV-ES ENV-AES ENV-AES ENV-ECS ENV-FOR ENV-PC	53,674 417 53,158 1,923 11,101 15,692 24,442 99	127,607 898 125,816 2,469 87,949 31,732 3,666 893	181,281 1,315 178,974 4,392 99,050 47,424 28,108 992	61,183 399 60,675 2,148 11,604 15,680 31,043 109	143,655 1,180 141,493 2,668 101,930 32,395 4,500 982	204,838 1,579 202,168 4,816 113,534 48,275 35,543 1,091	71,811 432 71,260 2,398 13,045 18,978 36,839 119	4,588	236,579 1,621 233,758 4,955 129,130 58,268 41,427 1,200
LDAC	AIRS 128 2,777	366 219	494 2,996	145 3,225	411 290	556 3,515	164 3,748	465 322	629 4, 070
FINANCE FILMERIES AND F&O-FM INDIAN AFFAIR IAND	48,210	51,628 51,628 ERN DEVELOI 592	99,838 99,838 MENT 1,529	50,209 50,209 1,075	53,678 53,678 671	103,887 103,887 1,746	54,919 54,919 1,096	49,040 49,040 762	103,959 103,959 1,858
TAND-NA INDUSTRY TRAD	937	592	1,529	9,413 9,363	671		1,096 10,351 10,296 55	762	1,858 10,351 10,296

INTRAMURAL, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	Re.D	RSA	TOTAL	R&D	RSA	TOTAL
USTICE									
ATIONAL DEFEN NDEF NDEF-SER	57,956 57,956	75 <b>0</b> 750		62,458 62,458	780 780	63,238 63,238	67,866 67,866	834 834	68,708 68,708
ATIONAL HEALT NHW-HSS NHW-HSS NHW-HP MRC ATIONAL REVEN	8,475 410 135 7,930 1,272	26,644	BOC	12,933 479 1,440 11,014 1,435		1,448	1,621	31,668 232 31,436 139	47,627 745 1,621 45,261 1,747
PW-PTS CMHC	1,641	1,436 578	3,077 3,077 1,658	1,318 1,318 1,350	2,626 2,626 630		353 353 1,485	5, 158 5, 158 693	5,511 5,51 2,178
NSERC	CHNOLOGY 109,092 109,092 1,818	29,261 15,693 13,568 455	138,353 124,785 13,568 2,273	129, 508 129, 508	34,014 17,807 16,207 740	163,522 147,315 16,207	148,355 148,355 3,451	39,259 20,099 19,160 861	187,61 168,45 19,16 4,31
ECRETARY OF S OLICITOR GENE RCMP	RAL	AR 85 88	Ø		find over som	0	214	50	26
UPPLY AND SER SS SS-SUPP		14 14	<b>86</b> 86	79 79	15 15	94 94	87 87	16 16	103
TPT-ADM	7,148 591 3,518 3,034 5	10,245 92 6,412 222 3,519	17,393 683 9,930 3,256	9,557	1.618	17,277 1,377 10,956 4,520 424	9,815 1,130 5,788 2,892 5	85	15,647 1,215 11,142 3,284
OTAL	587,725	313,388	901,113	664, 565	341,167	1,005,732	772,510	376,581	1,149,09:

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

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INDUSTRY, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAI.
AGRICULTURE									
AGR AGR-RI	2,122 2,122		2,122 2,122	2,390 2,390		2,390 2,390	2,278 2,278		2,278
	12,530		12,530	18,666		18,666	11,774	1000 adds 1000	11,774
COMM-COMM NFB NMUS	12,530	9 154	12,530 9 154	18,666	13 375	18,666 13 375	11,774	10 375	10 375
CONSUMER AND C ECONOMIC DEVEL EMPLOYMENT & B ENERGY MINES 8	CORPORATE COPMENT IMMIGRATIO	AFFAIRS N							
EMR EMR-ENER	9,878 3,398	3,226	13,104	22,338	4,088	26,426	30,305 21,800	4,003	34,308 21,920
EMR-MES AECB	6,480 116	3,186	9,666	6,607	4,048	10,655	8,505	3,883	12,388
AECL ENVIRONMENT	9,777	9,980	19,757	10,409	11,611	22,020	9,818	13,893	23,711
ENV-ES	10,341 10,224	1,741	12,082	12,326	2,086	14,476	13,136 12,995	2,415	15,551
ENV-EPS ENV-AES	1,750	225 466	1,975 466	2,265	245 814	2,510 814	2,200	248 855	2,440
ÉNV-ÉCS ÉNV-FOR	518	992	1,510	509 9,424	1,027	1,536	620 10, 175	1,250	1,870
ENV-PC EXTERNAL AFFA:		58	175	128	64	192	141	70 25,523	211
CIDA FINANCE		22, 341	22,341		22,788	22,788		£3,323	23,323
FISHERIES AND F&O	3,286	1,952	5,238	3,350	1,965	5,315	5,238	3,423	8,661
F&O-FM INDIAN AFFAIRS IAND		RN DEVELOR		208	21	229	200	21	221
IAND-NA INDUSTRY TRADI	153	21	174	208	21	229	200	21	221
ITC			73,972	85,612		85,612	110,486 110,386		110,486
ITC-GO JUSTICE	1,270	ayer (gat stat.	1,270	450		450	100		100
LABOUR NATIONAL DEFEN	NCE								
NDEF-SER	23,250		23,250 23,250	28,819 28,819		28,819 28,819	34,640 34,640		34,640 34,640
NATIONAL HEAL	58	FARE 380	438	256	637	893	300	610	910
NHW-HSS NHW-HP	18 40	380	18 420	50 206	93 544	143 750	85 215	56 554	141 769
NATIONAL REVEN	NUE								
PRIVY COUNCIL PUBLIC WORKS	4 . 0.15	5.45	0.000	0.077	1 105	6.000	1.045	000	1,953
PW-PTS	1,815	545 545	2,360 2,360	2,937	1,125	4,062	1,045	908 908 1,057	1,953
CMHC REGIONAL ECONO		197 ISTON	862	543	960	1,503	597	r, gar	1,634
SCIENCE AND TI	48,409	353 353	48,762	53,332 53,332	964 964	54,296 54,296	61,022	1,152	62, 174 62, 174
NRC-SIR NSERC SECRETARY OF 1	48,409 1,493		1,493	2,346		2,346	2,732		2,732
SOLICITOR GENI			25	95		95	103		103
SUPPLY AND SEI		1,663	11,698	9,984	1,677	11,661	10, 187	1,586	11,773
SS-SUPP TRANSPORT	10,035	1,663	11,698	9,984	1,677	11,661	10, 187	1,586	11,773
TPT TPT-ADM	5,444 5,334	3, 230 974	8,674	6,711	3,327 1,093	10,038 7,799	9,381 9,181	3,113 1,043	12,494 10,224
TPT-MAR TPT-AIR TREASURY BOAR	110	2,256	2,366	5	2,234	2,239	50 150	2,070	2,220
TOTAL	213,369	45,792	259.161	260,503	51,701	312,204	303,441	58,089	361,530

INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

UNIVERSITY, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE	3,479		3,479	3,751		3,751	3,637	and other state	3,637
AGR-RI COMMUNICATIONS	3,479		3,479	3,751	who age and	3,751	3,637		3,637
COMM COMM-COMM	800 800		800 800	975 975		975 975	975 975		975 975
NFB			Ø		700	Ø		5	5
CONSUMER AND CO	RPORATE A	261 AFFAIRS	261		309	309		312	312
ECONOMIC DEVELO EMPLOYMENT & IM	MIGRATIO								
ENERGY MINES & EMR	RESOURCES	6 356	1,728	1,686	97	1,783	1,382	93	1,475
EMR-ENER EMR-MES	1,367	356	5 1,723	130	97	130	130	93	130
AECB	175		175	302		302	332	27	332
ENVIRONMENT				1,309		1,347	1,518		1,545
ENV-ES	2,210	737	2,947 2,870	2,541 2,464	611 603	3,152	3,060	844 834	3,904 3,810
ENV-EPS ENV-AES	312 413	483	312	315	320	315 733	315 732	490	315
ENV-ECS ENV-FOR	413 463 9 <b>5</b> 3	246	709	461	283	744	511	344	855
ENV-PC EXTERNAL AFFAIR	69	8	77	77	8	85	84	10	94
CIDA		776	776		854	854		940	940
IDRC FINANCE	379	dan men ana	379	437		437	694	90	784
FISHERIES AND C	DCEANS	8	1,201	1,220	8	1,228	1, 197	9	1,206
F&O-FM INDIAN AFFAIRS	1,193 & NORTHE	RN DEVELOP	1,201	1,220	8	1,228	1, 197	9	1,206
IAND IAND-NA	591 591		591 591	557		557 557	506 506		506 506
INDUSTRY TRADE	AND COMM	ERCE			FOF				
ITC-TI	847 747	453 453	1,300	1,658	595 595	2,253	1,765	<b>595</b> 595	2,360
JUSTICE	100		100	65	ikir aşı, unt	65			0
LABOUR NATIONAL DEFENC	E								
	1,987		1,937	2,995		2,995	3, 164 3, 164		3,164
NATIONAL HEALTH	AND WEL				1 400			1 501	
NHW NHW-HSS	3,958 3,928	1,443	5,401 5,085	5,342	1,466	6,808	4, 396 4, 141	1,501	5,897 5,228
NHW-HP MRC	30 63,980	286	316 65,948	243 75,203	378	621	255 81,091	414 2,500	669 83,591
NATIONAL REVENU POST OFFICE	JE								
PRIPY COUNCIL PUBLIC WORKS									
PW PW-PTS	60	11	71		43	43	10	5	15
CMHC	60 55	11 22	77	43	43 2	43 45	10 47	5	15 49
REGIONAL ECONOR SCIENCE AND TEC									
	10,843	<b>407</b> 407	11,250		454 454	15,803 15,803	18,753 18,753	653 653	19,496
NSERC	104, 917	8,230	113, 147	138,891	12,675	151,566	150,435	17,551	167,986
SECRETARY OF ST SOLICITOR GENER			0	76		75	25		25
SUPPLY AND SERI			6	35		35	25		25
SS-SUPP	1,402	281 281	1,683 1,683	1,292	291	1,583 1,583	1,329	274 274	1,603 1,603
TRANSPORT TPT	983	13	996 963	440 Mar -		0	M <sup>4</sup> co or		0
TPT-ADM TPT-AIR	963 20	13	963 33	fact stations		0	100 mg/ 107	5400 000 data	0
TREASURY BOARD					una air ddr bir an an an bri an an				
TOTAL	200,557	15,021	215, 578	253, 586	19,734	273,320	274, 316	25,401	299,717

\*\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

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

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
GRICULTURE									
AGR AGR-RI	423 423	the same even	423 423	<b>485</b> 485		485 485	465 465	100 min ten	465 465
OMMUNICATIONS COMM COMM-COMM	S		2	After mass mass		0 13	1000 and 100		0
NMUS ONSUMER AND CO		438	438		569	569	the day too	562	562
CONOMIC DEVELO MPLOYMENT & IM	MIGRATION	ų							
NERGY MINES & EMR EMR-ENER	1,449 1,299	41	1,490 1,299	1,591 1,351	32	1,623 1,351	1,480	32	1,512
EMR-MES AECB	150	41	191	240 10	32	272	129	32	161
HVIROHMENT ENV	2,698	181	2,879	3,935	229	4,164	5,045	224	5,269
ENV-ES ENV-EPS ENV-AES	2,698 75 73		2,735 75 92	3,935	71  53	4,006 75 53	5,045	50 32	5,095 75 32
ENV-ECS ENV-FOR	10 2,540	18	28	9 3,851	18	27 3,851	9 4, 961	18	4,961
ENV-PC XTERNAL AFFAIR	S	144	144	tanti man ann.	158	158		174	174
CIDA IDRC INANC <b>E</b>	tite and the	109	109 0	andle spins over	and the star	0	50		50
ISHERIE5 AND C F&O	1,432	325	1, 757	1,485	325	1,810	1,479	-	1,479
F&O-FM NDIAN AFFAIRS IAND	1,432 & NORTHER 53	325 RN DEVELOP	1,757 MENT 53	1,485 53	325	1,810 53	1,479 53		1, 479
IAND-NA NDUSTRY TRADE	53		53	53	· · ·	53	53	Per 10.	53
ITC-TI	350	30 30	380 - 30	375	55 55	430 55	375	55 55	438
ITC-GO USTICE ABOUR	350		350	375	Wate data that	375	375	own over data	375
ATIONAL DEFENC	E 23	adar	23	-00x 2000 None	tala ayo, tala	0			e
NDEF-SER ATIONAL HEALTH	AND WELF	ARE	23			0			0
NHW-HSS NHW-HP	909 745 164	526 421 105	1,435 1,166 269	851 807 44	762	1,613 1,569 44	816 772 44	763	1,579 1,535 44
ARC ATIONAL REVENU		121	121		121	121		132	132
OST OFFICE RIVY COUNCIL									
UBLIC WORKS PW PW-PTS	entre status status	33 33	33 33	orgy had the	49 49	49 49	and the same	34 34	34 34
CMHC Egional Econom	233 IC EXPANS	18	251	73	45	118	81	49	130
CIENCE AND TEC NRC NRC CIP	155		155	140	and also fee	140 140	140 140	66	206
NRC-51R NRC-5TI NSERC	155	638	155 0 1,610	140	912	2,254		66	2,635
ECRETARY OF 51 DLICITOR GENER	ATE AL								
UPPLY AND SERV SS SS-5UPP	'ICE5 57 57	168 168	225	352 352	178 178	530 530	359 359	170 170	529
RANSPORT TPT	50		50	50		50	50		50
TPT-SUR REASURY BOARD	50		50	50		50	50		50
OTAL	8,890	2,628	11,518	10,742	3,277	14,019	12,017	3,109	15, 126

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

#### PROVINCIAL & MUNICIPAL GOVERNMENTS, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

REPARTMENT		1979-30			1980-81			1981-82	
CE REENCY		RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
GRICULTURE									
AGE AGR-RI	4 4	500 (10 Min	<b>4</b> 4	1,095 1,095		1,095 1,095	905 905		995 905
MMUNICATIONS		2,528	2,528	data falla dana	2,561	2,561		2,520	2, 520
CHSUMER AND C CONOMIC DEVEL NELOYMENT & I NEEGY MINES &	ÔPMENT MMIGRÁTION	4							
ENER-ENER	53,082 53,039		53,082 53,039	66,259 66,259		66,259 66,259	88,423 88,423		88,423
EAR-MES TECB	43 41		43	58		58	64	pter tell bier	00,420 0
ROHMENT	240	3,206	3,446	238	3,276	3/514	270	3,972	4,242
ENV-ES ENV-EPS	239	3,206	3,445	237 60	3,276	3,513	269	3,972	4,241
ENV-AES ENV-ECS	76	140	140 3,142	57	168 3, 108	168	69	184 3,788	184
ENV-FOR ENV-PC	103		103	120		120	140		140
TERNAL AFFAI				1		1	1		1
ISHERIES AND	OCEANS	68	68		20	20		74	74
FRO-FM TOTAN AFFAIRS	A NODTHE	68	68	444 Adv	20	20	and the Div	74	74
USTRY TRADE	AND COMM	ERCE	INDER I						
ATIONAL DEFEN	CE 11		11	100	1970 - 1984 - 1984	100			0
NDEF-SER	11	FOPE	11	100	radi alas ver	100	pier mar term	aller som soll	0
HW-HSS	41 41	12	53 41	56 56	53 42	109	93 93	53 40	146
HHH-HP	the and any	12	12		11	11		13	13
TIONAL REVEN	0L								
FLIC WORKS		5	5			Ø			0
PW-PTS		57	5		7	0 56	 54		0 62
LEIONAL ECONO		SION 1,589	1,589	40	3,021	3,021		6,427	6, 427
TENCE AND TE		1, 202	266	280	3,021		971	6,421	971
NRC-SIR ECRETARY OF S	266		266	280		280 280	971		971
<b>ULICITOR GENE</b>	RAL								
PPLY AND SER	15		15			0		the out and	8
ES-SUPP EANSPORT	15		15			0	dia be est	And oth over	8
TPT TPT-ADM PEASURY BOARD	20 20	alite onto your	20 20		dan yan dar	0	and Au- was		8
OTAL	53,781	7, 415	61, 196	68, 135	8,938	77,073	90,780	13,054	103,834

THE INTROMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES FOREIGN, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE									
AGR AGR-RI	12	7	19 16	53	95	62 58	33 33	9	42 39
CDC COMMUNICATIONS		3	3		4	4		3	3
COMM COMM-COMM	1,440		1,440	2,509		2,509			0
CONSUMER AND C ECONOMIC DEVEL EMPLOYMENT & I	ORPORATE I OPMENT MMIGRATIO	AFFAIRS	1,000	2,000		2, 303			0
ENERGY MINES & EMR	RESOURCE:	5 16	1,029	970	17	987	993	20	1,013
EMR-ENER EMR-MES	100 913	16	100	100	17	100	100	20	100
AECL ENVIRONMENT	61		61	100	A 1	100	125		125
ENV	157	646	803	165	569	734	199	596	795 795
ENV-ES ENV-EPS	157 16	646	803	165 10	569	734 10	199 15	596	15
ENV-AES ENV-ECS	27	640 6	64Ø 33	21 26	563 6	584	26	590 6	590 32
ENV-FOR EXTERNAL AFFAI	114		114	108		108	158		158
CIDA	8,372	.95	8,467	8,450	105	8,555	9,456	115	9,571
IDRC FINANCE	14,564	522	15,086	15,835	902	16,737	18,456	922	19,378
FISHERIES AND F&O	OCEANS 75		75	90		90	29		29
F&O-FM INDIAN AFFAIRS	75 8 NORTHE	RN DEVELOP	75 MENT	90	and this time	90	59	Mail ages from	29
INDUSTRY TRADE			1 Mad 1 7 A						
JUSTICE LABOUR									
NATIONAL DEFEN	1,240		1,240	1,363		1,363	1,470		1,470
NDEF-SER NATIONAL HEALT	1,240 H AND WELL	FARE	1,240	1,363		1,363	1,470	Tata Asso and	1,470
NHW NHW-HSS	34 34	2	36 34	58 58		58	25		25 25
NHW-HP		2	2			0			Ø
MRC NATIONAL REVEN	2,583 UE	24	2,607	2,829	31	2,860	3,086	34	3,120
POST OFFICE PRIVY COUNCIL									
PUBLIC WORKS	35	70	105	5	110	115		115	115
PW-PTS	35	70	105	5	110	115		115	115
CMHC REGIONAL ECONO		SION	12	00 00 ms	5	5		5	5
SCIENCE AND TE	CHNOLOGY 1,037		1,037	1,941		1,941	2, 179		2,179
NRC-SIR NSERC	1,037	1,425	1,037	1,941	1,849	1,941 3,341	2,179	2,674	2,179
SECRETARY OF S	TATE	17400	6,020	1,402	11040	3,341	1,011	6,014	4,001
SOLICITOR GENE SUPPLY AND SER									
TRANSPORT TREASURY BOARD									
TOTAL	31,735	2,807	34, 542	35,860	3,597	39,457	37,728	4, 498	42,218

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

OTHER. BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
GR GGENCY	R&D		TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE									
AGE AGR-RI	677 677	2,921 2,921	3,598 3,598	832 832	1,923 1,923	2,755 2,755	804 804		<b>804</b> 804
COMMUNICATIONS NMUS CONSUMER AND (	105	464 AFFAIRS	569	109	306	415	125	302	427
ECONOMIC DEVE Employment & Emergy mines (	IMMIGRATIO	N							
EMR-MES	718 718	67 67	785 785	918 918	134 134	1,052	829 829	147 147	976 976
HECB HECL EN TRONMENT	343		0 343	17 368		17 368	19 130		19 130
EHV-ES	453 422	1,792	2,245	584 550	2,087	2,671 2,632	652 615	2,221 2,215	2,873
ENV-EPS	180 70	65 1,483	245 1,553	290 76	58 1,741	348 1,817	285	47 1,824	332
ENV-ECS	160 12	239	3 <b>9</b> 9 12	180	283	463 4	217 14	344	561 14
ENU-PC		5	36	34	5	39	37	6	43
IORC FINANCE FISHERIES AND	102 0050NS	54	136	93	31	124	89	36	125
Fao Fao Fao	315 315	823 823	1,138	330 330	223 223	553 553	343 343	654 654	997 997
INDIAN AFFAIR				2		2	2		2
INDUSTRY TRADI		ERCE	0	2	All and	2	2		2
TC-TI TC-TI	100		100 100	100 100		100 100	100 100		100 100
LABOUR MITIONAL DEFEN	NCE								
NDEF NDEF-SER	291 291		291 291	181 181		181 181	275 275		275
HALLONAL HEAL'		FARE 36	126	59	77	136	131	77	208
NHW-HSS NHW-HP	90	36	0 126	10 49		10 126	79 52	572	84 124
POST OFFICE	NUE								
PRIMY COUNCIL		96	0.0		0.7	07			
PIN-PTS	10	96 96 57	96 96 67	10	97 97 52	97 97 62		29 29 57	29 29 68
DESIGNAL ECON	OMIC EXPAN		01	10	52	02	11	51	00
NRC-SIR	805 805	781 781	1,586	557 557	852 852	1,409	652 652	946 946	1,598
SECRETARY OF S	ERAL								
SUPPLY AND SET	242 242	104 104	346 346	118 118	91 91	209	110	85 85	195
TRANSPORT		104	346 Ø	95	368	209 463	110	380	195 380
TPT-AIR TRIASURY BOARD	D		Ø	95	368	463		380	380
IOTAL	4,251	7,175	11,426	4, 373	6,241	10,614	4,272	4,934	9,206

INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

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## FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT BY PERFORMER, 1979-1982

#### (\$ THOUSANDS)

PERFORMER	1979-	80		19	80-8	31		1981-		
FERFORMER	 \$		%	\$			%	\$		%
INTRAMURAL	587,725	C	53.4)	664, 5	65	¢	51.2)	772.510	¢	51.7)
INDUSTRY	213,369	¢	19.4)	260,5	03	ζ	20.1)	303,441	¢	20.3)
UNIVERSITIES	200,557	€	18.2)	253, 5	86	(	19.5)	274,316	¢	18.3)
NON-PROFIT INSTITUTIONS	8,890	C	0,8)	10,7	42	(	0.8)	12,017	¢	0.8)
PROVINCIAL & MUNICIPAL	53,781	Ç	4.9)	68,1	35	(	5.3)	90,780	¢	6.1)
FOREIGN	31,735	¢	2.9)	35,8	60	ζ	2.8)	37,728	¢	2.5)
OTHER CANADIAN	4, 251	(	0.4)	4,3	73	٢	0.3)	4,272	ζ	0.3)
TOTAL	1, 100, 308		100 01	1 207 7	сл.	~	100 01	1,495,064		100.0)

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

## FEDERAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES BY PERFORMER. 1979-1982

(\$ THOUSANDS)

PERFORMER	1979-		1980-		1981-	82
	\$	%	\$	%	\$	*
INTRAMURAL	313,388	( 79.5)	341, 167	( 78.5)	376, 581	( 77.5)
INDUSTRY	45, 792	(11.6)	51,701	(11.9)	58,089	( 12.0)
UNIVERSITIES	15,021	( 3.8)	19,734	( 4.5)	25,401	( 5.2)
NON-PROFIT INSTITUTIONS	2,628	( 0.7)	3,277	( 0.8)	3,109	( 0.6)
PROVINCIAL 8. MUNICIPAL	7,415	( 1.9)	8,938	( 2.1)	13,054	( 2.7)
FOREIGN	2,807	( 0.7)	3, 597	( 0.8)	4,490	( 0.9)
OTHER CANADIAN	7, 175	( 1.8)	6,241	( 1.4)	4, 934	( 1.0)
TOTAL	394, 226	(100.0)	434,655	(100.0)	485,658	(100.0)

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#### FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

		1979-80	a sing finite ways cars over whit over and which over an		1980-81			1981-82	
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE						je tin 1997 1997 1998 1995 tan tan tin tin tin tin t			
AGR	127,274	6,717	133,991	134,880	8,606	143,486	153,343	8,122	161,465
AGR-ADM AGR-DEV	sprop fador addad								
AGR-RI AGR-CGC	121,252	6,717	127,969 4,686	127,704 5,673	8,606	136,310 5,673	144,134 7,556	8,122	152,256
CDC	1,336		1,336	1,503		1,503	1,653		1,653
CLFB COMMUNICATION				and then over					ajua, tilan muu
COMM	38,711	14,772	53,483	43,423	22,150	65,573	37,728	12,749	50,477
COMM-COMM COMM-AC	38,711	14,772	53,483	43, 423	22,150	65,573	37,728	12,749	50,477
CBC				more time time					the the the
CRTC	298	and and see	298	412		412	456		456
NFB NLIB									
NMUS	1,146	105	1,251	973	109	1,082	2,048	125	2,173
PA SSHRC									and the the
CONSUMER AND									
CCA CCA-ADM									
CCA-CON		den den bite							
CCA-COR CCA-CICP						5000 000 000			
ECONOMIC DEVE									
ED EMPLOYMENT &	IMMICDOTIO				talk dilk ann	allow fails diffi		tiles uno tato	the des are
ENFLOYMENT &	ITHIIGKHI IO	43 							
EI-ADM				the are the					
CEIC ENERGY MINES									
EMR	55,516	67,512	123,028	66,934	93,762	160,696	105,751	123,412	229,163
EMR-ENER EMR-MES	798 54,718	57,841 9,671	58,639 64,389	4,081 62,853	83,571	87,652 73,044	35,683 70,068	111,804	81,676
AECB	159	416	575	200	568	768	226	625	851
AECL NEB	63,909	11,501	75,410	70,898	12,186	83,084	81,676	11,591	93,267
ENVIRONMENT		10.000	00 777	01 107	10.700	00.070	71 011	22 762	94, 173
ENV-ADM	53,674 417	16,099	69,773 417	61,183 399	19,789	80, 972 399	71,811 432	22, 362	432
ENV-ES	53,158	15,881	69,039	60,675	19,549	80,224	71,260	22,099	93,359
ENV-EPS ENV-AES	1,923	2,393 556	4,316	2,148 11,604	3,015 510	5,163	2,398 13,045	2,950 831	5,348
ENV-ECS	15,692	1,254	16,946	15,880	1,242	17,122	18,978	1,452	20,430
ENV-FOR ENV-PC	24, 442	11,678 218	36,120	31,043	14,782	45,825 349	36,839	16,866 263	53,705
EXTERNAL AFFA		L10	JII	100	240	040		200	001
EA									
EA-CIA CIDA	128	8,372	8,500	145	8,450	8,595	164	9,456	9,620
IDRC	2,777	15,045	17,822	3,225	16,365	19,590	3,748	19,289	23,037
FINANCE									and plan over
FIN-FEP	Alex - Alex - erter								
FISHERIES ANI F&O	0CEANS 48,210	6,301	54,511	50,209	6,475	56,684	54,919	8,286	63,205
F&Ø-FM	48,210	6,301	54,511	50,209	6,475	56,684	54,919	8,286	63,205
INDIAN AFFAII	RS & NORTHE 937	RN DEVELOI	MENT 1,734	1,075	820	1,895	1,096	761	1,857
IAND-IIA				men take over		were dual were			
IAND-NA	937	797	1,734	1,075	820	1,895	1,096	761	1,857
INDUSTRY TRAI	6,432	75,269	81,701	9,413	87,745	97, 158	10,351	112,726	123,077
ITC-TI	6,360	73,549	79,909	9,363	86,855	96,218	10,296	112,251	122,547
ITC-TOUR ITC-GO	72	1,720	1,792	50	890	940	55	475	530

#### FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

#### BY DEPARTMENT OR AGENCY

(\$ THOUSAND5)

Def Multipul         INTRA- PURAL         EXTRA- TOTAL         INTRA- WIRAL         EXTRA- TOTAL         INTRA- WIRAL         EXTRA- TOTAL         INTRA- WIRAL         EXTRA- TOTAL           JUSTICE JUSTIC	DEDADTMENT	and an an an the the day an in	1979-80	na dar 1993 Yan ya ya Karawa dar ya am m		1980-81		ga tiya igin igin dali aya uga ana kale ana da	1981-82	and with state along spins were over their state
JUST - Million           LIR         IIII         IIIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				TOTAL			TOTAL			TOTAL
JUST-DPM DIST         JUST-COM LABOR         JUST-COM	JUSTICE	a din upo any sin' lan UV any any siny siny si					and and any other state and and and this day is			
JUST-CUIO         III         IIII         IIIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII										
CHRC 1										
LABCUR HARDEL DEFENCE HARDEL							10° 10° 10°			
LAB         Lab <thlab< th=""> <thlab< th=""> <thlab< th=""></thlab<></thlab<></thlab<>										
NDEF         57.956         26.802         04.758         62.459         33.459         95.916         67.666         39.549         107.415           MTEF-SER         57.956         26.802         04.758         62.459         33.459         95.916         67.666         39.549         107.415           MHL-MS	LAB						And data and			-
NDEF-SER         S7, 956         26. 802         84, 758         62. 458         33. 458         95. 916         67. 666         39. 549         187. 415           NHI ONAL HEALT MAN LURARE NAME AND MALENSS         1.4         4.7         6.6         5.7         15.959         5.7         15.959         5.7         12.7			26 902	04 750	62 450	77 150	95 010	67 000	79 549	107 415
NHM         8.475         5.899         13.565         12.933         6.622         19.555         15.959         5.761         21.728           NHM-HON         -1.49         -1.665         -1.449         1.555         15.959         5.761         21.728           NHM-HON         -1.49         -1.555         1.449         1.525         5.761         21.728           NHM-HON         -1.49         1.449         1.449         1.525         5.661         14.621           NHM-HON         -1.49         6.7633         67.835         1.445         78.832         79.467         1.608         84.177         95.765           NRT/ONAL ER/ENUE         -1.41         -1.41         -1.42         -1.435         1.608         84.177         95.765         1.608         84.177         95.765         1.608         84.177         95.765         1.608         84.177         95.765         1.608         84.177         95.765         1.608         84.177         95.765         1.608         84.177         95.765         1.608         1.608         1.608         1.608         1.608         1.608         1.608         1.608         1.608         1.608         1.608         1.608         1.608         1.608	NDEF-SER	57,956	26,802							
HHL-HSS         418         4.766         5.176         479         6.880         6.559         5.13         5.195         5.708           HHL-HS         7.933         324         8.254         11.814         542         11.556         13.825         5.661         14.391           HHL-HS         7.933         524         8.254         11.814         542         11.556         13.825         5.661         14.391           HHL-HS         7.933         624         8.254         11.435         78.932         79.467         1.609         84.177         85.705           NATIONAL REPUNCT         T<	NHW	8,475	5,090							
NHAL-ME         135          135         1.440         1.420         1.621          1.420           MHL-ME         7.930         324         8.254         11.014         542         11.556         13.025         566         14.391           MHL-ME         FUNCTION         <										
HHRL-15         Late         Late <thlate< th="">         Late         Late         &lt;</thlate<>	NHW-MS	135		135	1,440		1,440	1,621	-	
MEC         1.272         66.563         67.035         1.435         76.032         79.467         1.600         84.177         85.785           NETIONAL REVENUE										
NATIONAL REVENUE NEEU-TAX HEEU-TAX POT OFFICE PO TOTO TOTO TOTAL										
NREP-TRAX			00,000	017030	11-00	10,005	107 401	17000	049 111	037103
POST OFFICE PC PRIV COUNCIL PC COL ELC ELC COL ELC ELC COL ELC ELC COL ELC ELC COL ELC ELC COL ELC ELC COL ELC ELC COL ELC ELC COL ELC ELC ELC ELC ELC ELC ELC EL								AND 1000 1000		
PRIV COUNCIL         PC         COL       TT       TT </td <td></td> <td></td> <td>ann shift also</td> <td></td> <td></td> <td>anno that then</td> <td>man pain from</td> <td>And the last</td> <td>-</td> <td>and disk sets</td>			ann shift also			anno that then	man pain from	And the last	-	and disk sets
PC         Image: Section of the sectin of the section of the section of the section of the se			this pair over		-					
ÉLC <td></td> <td></td> <td></td> <td>101 miles - 100</td> <td></td> <td>man map the</td> <td></td> <td>-</td> <td>-</td> <td></td>				101 miles - 100		man map the		-	-	
PUBLIC WORKS PH PH-PTS 1. 641 1.910 3.551 1.318 2.942 4.260 353 1.055 1.408 CMC 1.080 1.036 2.116 1.318 2.942 4.260 353 1.055 1.408 PKC 1.080 1.036 2.116 1.318 2.942 4.260 353 1.055 1.408 PKC 1.080 1.036 2.116 1.318 2.942 4.260 353 1.055 1.408 PKC 1.080 1.036 2.116 1.318 2.942 4.260 353 1.055 1.408 PKC 1.080 1.036 2.116 1.318 2.942 4.260 353 1.055 1.408 PKC 1.080 1.045 7.10 5.10 7.10 5.00 7.129.508 7.159 201.107 1.40.355 83.717 232.072 ST T 1.00.607 129.508 7.1599 201.107 1.40.355 83.717 232.072 PKC 1.0818 108.482 110.300 2.957 1.44.071 1.47.028 3.451 156.457 159.908 ST C FRA 1.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1										
PH         1.641         1.910         3.551         1.318         2.942         4.260         353         1.955         1.408           CHHC         1.080         1.036         2.116         1.350         718         2.068         1.465         798         2.275           NCC         T         T         1.465         798         2.275         1.408           NCC         T         T         1.465         798         2.275         1.408           NCC         1.836         2.116         1.359         71.599         201.107         148.355         83.717         232.072           NRC-SIT         109.092         61.515         170.607         129.508         71.599         201.107         148.355         83.717         232.072           NRC-SIT         109.092         61.515         170.607         129.508         71.599         201.107         148.355         83.717         232.072           NRC-SIT         109.092         61.515         170.607         129.508         71.599         201.107         148.355         83.717         232.072           NRC-SIT         109.092         61.515         170.607         129.508         71.4071         147.028		100 B. 100				may the last			dia	
PHPTS         1.641         1.910         3.551         1.316         2.942         4.268         353         1.655         1.485           NCC         1.088         1.036         2.116         1.350         718         2.068         1.485         798         2.275           REGIONAL ECONOMIC EXPANSION         1.1350         718         2.068         1.485         798         2.275           SCIENCE AND TECHNOLOGY         1.151         170.687         129.588         71.599         201.187         149.355         83.717         232.072           NRC-SIT         1.818         108.482         116.308         2.957         144.071         147.028         3.451         156.457         159.908           SICRETARY OF STATE         1.918         108.482         110.308         2.957         144.071         147.028         3.451         156.457         159.908           SICRETARY OF STATE         1.918         108.482         110.308         2.957         144.071         147.028         3.451         156.457         159.908           SICRETARY OF STATE         1.925         1.927         1.928         3.451         156.457         159.908           SICRETARY         1.918         1.928 <t< td=""><td></td><td>1,641</td><td>1,910</td><td>3,551</td><td>1,318</td><td>2,942</td><td>4,260</td><td>353</td><td>1,055</td><td>1,408</td></t<>		1,641	1,910	3,551	1,318	2,942	4,260	353	1,055	1,408
NCC REGIONAL ECONOMIC EXPANSION REF         Image: Construct of the second		1,641	1,910	3,551	1,318	2,942	4,260	353	1,055	1,408
REGIONAL ECONOMIC EXPANSION           REP SCIENCE AND TECHNOLOGY           ST         189.892         61.515         178.687         129.588         71.599         281.187         148.355         83.717         232.872           NRC         189.892         61.515         178.687         129.588         71.599         281.187         148.355         83.717         232.872           NRC-SIT         188.482         118.380         2.957         144.071         147.028         3.451         156.457         159.908           SECST         1.818         188.482         118.380         2.957         144.071         147.028         3.451         156.457         159.908           SECST         1.818         188.482         118.380         2.957         144.071         147.028         3.451         156.457         159.908           SECST         1.818         188.492         118.380         2.957         144.071         147.028         3.451         156.457         159.908           SECS-OL         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11         1.11		1,080								
SCIENCE AND TECHNOLOGY         ST         T <tht< th="">         T         T         T</tht<>		IOMIC EXPAN		and shift one.	0.0 Mile Map		and all the same		and the line	
Nic         189.092         61.515         170.607         129.508         71.599         201.107         148.355         83.717         232.072           NRC-SIP         109.092         61.515         170.607         129.508         71.599         201.107         148.355         83.717         232.072           NRC-SIP         1.818         108.492         110.300         2.957         144.071         147.028         3.451         156.457         159.908           ST.PETARY OF STATE         1 <td></td> <td>ECHNOLOGY</td> <td></td> <td></td> <td>eliki mar</td> <td></td> <td>augo dana terri</td> <td></td> <td>Many State over</td> <td></td>		ECHNOLOGY			eliki mar		augo dana terri		Many State over	
NRC-STR         100.002         61.515         170.607         129.508         71.599         201.107         146.355         83.717         232.072           NRC-STI         1.818         100.402         110.300         2.957         144.071         147.028         3.451         156.457         159.908           SC PETARY OF STATE         1.818         100.402         1.11         1.					and the set					
NBC-STI         Image: Street Arry OF STATE         Image: Street Arry OF STATE           ACS         Image: Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE           ACS         Image: Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE           ACS         Image: Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE           ACS         Image: Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE           Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE           Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE           Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE           Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE           Street Arry OF GENERAL         Image: Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE           Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE         Image: Street Arry OF STATE           Street Arry OF Street Arry OF Stree										
NSERC         1.818         108.482         110.300         2.957         144.871         147.828         3.451         156.457         159.908           SERETARY OF STATE         III         III         III         IIII         IIII         IIIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				110,001						
SECRETARY OF STATE         ECS-OL       III       IIII       IIIII			108,482							
SPCS       III       IIII       III       IIII       IIIII       IIII       IIIII       IIII <td>SP PETOPY OF</td> <td></td> <td></td> <td>979 979 AM</td> <td></td> <td>ana 12% 946</td> <td></td> <td>dente fattori contori</td> <td></td> <td>0700 gpp</td>	SP PETOPY OF			979 979 AM		ana 12% 946		dente fattori contori		0700 gpp
ECS-OL       III       III <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
SCS-TRA						man man and		AND	area 127- 1-88	13te - 040
SECS-CIT       III       IIII       IIIIII       IIIIIIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						mage light data				
PEC         ICITOR GENERAL           SCEN         31         31          130         130         214         128         342           SCEN         72         11.751         11.823         79         11.746         11.825         87         11.985         12.072           SS-SUPP         72         11.751         11.823         79         11.746         11.825         87         11.985         12.072           SS-SUPP         72         11.751         11.823         79         11.746         11.825         87         11.985         12.072           STCAN         77         7.148         6.497         13.645         9.557         6.856         16.413         9.815         9.431         19.246           TPT-ADM         591         6.317         6.908         1.287         6.706         7.993         1.130         9.181         10.311           TPT-AIR         3.034         130         3.164         2.902         100         3.002         2.6922         158         3.642           TPT-SUR         5         50         55         5         5         5         55         5         5         55         55										
SCEN         III         IIII         III         IIII         IIII         IIII         II	PSC						AND 120-121-	wave that same		No. the per
SGEN-ADM         II         <	SOLICITOR GEN									
TOMP          31         31         31          130         130         214         128         342           SUPPLY AND SERVICE5         72         11.751         11.823         79         11.746         11.825         87         11.985         12.072           SS-SUPP         72         11.751         11.823         79         11.746         11.825         87         11.985         12.072           STCAN              11.825         87         11.985         12.072           STCAN   <										
Sign         72         11.751         11.823         79         11.746         11.825         87         11.985         12.072           STCAN         72         11.751         11.823         79         11.746         11.825         87         11.985         12.072           TRANSPORT         72         11.751         11.823         79         11.746         11.825         87         11.985         12.072           TRANSPORT         7         7.148         6.497         13.645         9.557         6.856         16.413         9.815         9.431         19.246           TPT-ADM         591         6.317         6.908         1.287         6.706         7.993         1.181         10.311           TPT-AIR         3.034         130         3.164         2.902         100         3.002         2.892         150         3.842           TPT-SUR         5         50         55         50         55         50         55         50         55         50         55         50         55         50         55         50         55         50         55         50         55         50         55         50         55         50	RC>P		31	31		130	130	214	128	342
STCAN <td< td=""><td>SUPPLY AND SE</td><td></td><td>11 751</td><td>11 007</td><td>20</td><td>11 240</td><td>11 005</td><td>07</td><td></td><td>10.070</td></td<>	SUPPLY AND SE		11 751	11 007	20	11 240	11 005	07		10.070
STCAN <td< td=""><td>SS-SUPP</td><td>72</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	SS-SUPP	72								
TPT       7,148       6,497       13,645       9,557       6,856       16,413       9,815       9,431       19,246         TPT-ADM       591       6,317       6,908       1,287       6,706       7,993       1,130       9,181       10,311         TPT-ADM       3,518        3,518       5,363       5,788       50       5,838         TPT-AIR       3,034       130       3,164       2,902       100       3,002       2,892       150       3,042         TPT-SUR       5       50       55       5       50       55       5       50       55         CTC                    50       55       5       50       55       5       50       55       50       55       50       55       50       55       50       55       50       55       50       55       50       55       50       55       50       55       50       55       50       55       50       55       50       55       50       55       50       55       <										
TPT-ADM         591         6.317         6.908         1.287         6.706         7.993         1.130         9.181         10.311           TPT-MAR         3.518          3.518         5.363          5.363         5.788         50         5.838           TPT-AIR         3.034         130         3.164         2.902         100         3.002         2.892         150         3.042           TPT-SUR         5         50         55         5         50         55         5         50         55           CTC                      55         50         55         5         50         55         5         50         55         5         50         55         5         50         55         5         50         55         5         50         55         5         50         55         5         50         55         5         50         55         5         50         55         5         50         55         5         50         55         5										
TPT-MAR     3,518      3,518     5,363      5,363     5,788     50     5,838       TPT-AIR     3,034     130     3,164     2,992     100     3,002     2,892     150     3,042       TPT-SUR     5     50     55     5     50     55     5     50     55       CTC              TB              TB-ADM										
TPT-AIR         3,034         130         3,164         2,902         100         3,002         2,892         150         3,042           TPT-SUR         5         50         55         5         50         55         5         50         55										
CTC TREASURY BOARD TB TB-ADM	TPT-AIR	3,034		3,164	2,902			2,892		
TREASURY BOARD TBTBTTB _TTBTTBTTB _TTB _TTB _TTB _TTBTTB _TTB _TTB _TTB _TTB _TTB TTB			50	55	5	50	55	5	50	55
TB-ADM							~ = ~			
	TB			10.00 - 1707 - 1779					1910 MIN AND	
TOTAL 587,725 512,583 1,100,308 664,565 633,199 1,297,764 772,510 722,554 1,495,064	I.R-HDW									
	TOTAL	587,725	512,583	1,100,308	664,565	633, 199	1,297,764	772,510	722,554	1,495,064

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

## FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN INDUSTRY BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT	19	79-80	19	80-81	19	81-82
OR AGENCY	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
AGRICULTURE	and had not very any first data and			the ever one says any late one and him one one		
AGR		2,122		2,390		2,278
AGR-ADM						
AGR-DEV						
AGR-RI AGR-CGC		2,122		2,390		2,278
CDC						
CLFB						
COMMUNICATIO	NS					
COMM	8,045	4,485	10,406	8,260	2,488	9,286
COMM-COMM	8,045	4,485	10,406	8,260	2,488	9,286
COMM-AC CBC						
CRTC						
NFB						
NLIB	with Area WWW					-
NMUS						
PA				where there shows	and the late	test was man
SSHRC CONSUMER AND	000000	TE OFFOIDC		and all first		
CCA	CORPORH	IE MITHIKS			-	
CCA-ADM						
CCR-CON					were this ware	
CCA-COR	aller son, bein	with more with		400 mm. 444		
CCA-CICP						
ECONOMIC DEV	ELOPMENT					and finds fitting
EMPLOYMENT &	IMMIGRA	TION				
EI	11111021	11011				
ÉI-ADM						
CEIC						
ENERGY MINES						
EMR ENER	2,865	7,013	15,101	7,237	18,370	11,935
EMR-ENER EMR-MES	2,865	533 6,480	15,101	63 <b>0</b> 6,607	18,370	3,430 8,505
AECB		116		181	and both both	199
AECL	which wanted from the	9,777		10,409		9,818
NEB			and the line			
ENVIRONMENT				10.000		10.000
ENV-ADM	2,300	8,041	2,300	10,026	2,300	10,836
ENV-ES	2,300	7,924	2,300	9,898	2,300	10,695
ENV-EPS	27000	1,750	2	2,265		2,200
ENV-AES						
ENV-ECS		518		509		620
ENV-FOR	2,300	5,656	2,300	7,124	2,300	7,875
ENV-PC EXTERNAL AFFI	AIPC	117		128		141
EA			water which spins.			
EA-CIA						Apr. 107 107
CIDA						
IDRC						
FINANCE						
FIN FIN-FEP						
FISHERIES AN						
F&O		3,286		3,350		5,238
F&0-FM		3,286		3,350		5,238
INDIAN AFFAI	RS & NOR	THERN DEVELO	PMENT			
IAND IIO		153		208	-	200
IAND-IIA IOND-NO		153		208		200
IAND-NA INDUSTRY TRA	DE AND O			200		200
ITC	73,972		85,612		110,486	
ÎTC-TI	72,702		85,162		110,386	
ITC-TOUR			age were whith			Andrew Selecter water
ITC-GO	1,270	when this wave	450	Apple size. The	100	

## FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT

IN CANADIAN INDUSTRY

BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT	19	79-80	19	80-81	19	81-82
AGENCY	GRANTS			CONTRACTS	GRANTS	
JUSTICE	P GD day aar yr ydy fil had di	that also have over one and over how there will half all	in this with over with over land over and was	*		
JUST		while appy where		100 mm		
JUST-ADM						
JUST-CUIO CHRC		and the set				
LRC						
LABOUR						
LAB NATIONAL DEF	ENCE		app face app			
NDEF		23,250		28,819		34,640
NDEF-SER		23,250		28,819		34,640
NATIONAL HEA	15	WELFHRE 43	15	241	15	285
NHW-ADM				Mps with gap		
NHW-HSS		18		50		85
NHW-MS NHW-HP	15	25	15	191	15	200
NHW-IS					1.3	
MRC						
NATIONAL REP	ENUE					
NREV-TAX						
POST OFFICE						
PO			also and the			
PRIVY COUNCI PC	L					
COL						
ECC				these terms man-		
PUBLIC WORKS	5	1.075		0.007		1 0 15
PW-PTS		1,815 1,815		2,937	and the day	1,045
CMHC	32	633		543	same that shad	597
NCC			mm. 4940 4950	AND AND DOD	alian Oxfi alian	
REGIONAL ECO REE	NOMIC EX	PANSION				
SCIENCE AND	TECHNOLO	GY				
ST						
NRC-SIR	25,583	22,826	22,381 22,381	30,951 30,951	27,434	33,588
NRC-STI	CJ/ JOJ	22,020	22,301	50,001	C()434	33,588
NSERC						
SC EEGEETORUL OF	PTATE			We also that		
SECRETARY OF SECS	STATE		Auto 1070 Auto			
SECS-OL			-			
SECS-ES						
SECS-TRA SECS-CIT						
PSC		-		-	494 101 101	1717 1717 1840.
SOLICITOR GE	NERAL					
SGEN-ADM				ami 50. gyp.		
RCMP		25		95		103
SUPPLY AND S						
SS SC-CUPP	-	10,035	4403 700	9,984		10,187
SS-SUPP STCAN		10,035		9,984		10,187
TRANSPORT						
TPT OPM	-	5,444		6,711		9,381
TPT-ADM TPT-MAR		5,334		6,706		9,181 50
TPT-AIR		110		5		150
TPT-SUR						
CTC				man permitera		align daw had
TREASURY BOA				497 mm. 498		
TB-ADM						
	110.010	00.004	175 015	100 7 10	101 000	170.010
TOTAL	112,812	99,064	135,815	122,342	161,093	139,616

## FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT	19		19	80-81		81-82
OR		CONTRACTS		CONTRACTS	GRANTS	
AGRICULTURE						
AGR	1,372	2,530	1,386	2,850	1,386	2,716
AGR-ADM AGR-DEV				antes unto sunt		4900 men 1444
AGR-RI	1,372	2,530	1,386	2,850	1,386	2,716
AGR-CGC						
CDC CLFB			Alle Anto alle			
COMMUNICATIO						
COMM	2	800	25	950	25	950
COMM-COMM	2	800	25	950	25	950
COMM-AC CBC						
CRTC						
NFB			2010 VIII VIII			
NLIB						
NMUS PA						
SSHRC						
CONSUMER AND	CORPORA	TE AFFAIRS				
CCA	grap with such	dalls along agent			and will save	
CCA-ADM CCA-CON						
CCA~COR						
CCA-CICP						whet over mitte
ECONOMIC DEV.	ELOPMENT					
ED ENDLOUMENT A	TMMICRO	TTON .				
EMPLOYMENT &	THURGER	I ION	NUME AND ADDR	0770 0777 mas	and with the	
EI-ADM						
CEIC						
ENERGY MINES			1 050	1 410	1 230	1 174
EMR EMR-ENER	1,769	1,052	1,859	1,418	1,728	1,134
EMR-MES	465	1,052	378	1,418	247	1,134
AECB		259		312		343
AECL		1,320		1,309		1,518
NEB ENVIRONMENT						
ENV	2,196	2,712	2, 182	4,294	2,895	5,210
ENV-ADM						
ENV-ES	2,196	2,643	2,182	4,217	2,895	5,126
ENV-EPS ENV-AES	266	387 220	283	390 130	300	390 432
ENV-ECS	238	235	237	233	237	283
ENV-FOR	1,692	1,801	1,662	3,464	2,358	4,021
ENV-PC EXTERNAL AFF	ALDC	69	Well ship day	77		84
EATERNHL HFF	HIKS	data alian shaft			Add 1029 - 070	
EA-CIA						ANY 245 445
CIDA		gap aim aim				
IDRC	379		437		744	
FINANCE						
FIN-FEP				400, mar 6mm		600, 000 + 100
FISHERIES AND						
F&O	585	1,987	585	2,969	510	2,166
F&O-FM INDIAN AFFAI	585 RS & NOR	1,987 THERN DEVELO	585 IPMENT	2,060	510	2,166
IAND	294	350	294	316	294	265
IAND-IIA	And the same			1772 - 1995 - 1995		
IAND-NA	294	350	294	316	294	265
INDUSTRY TRA	DE AND CO 1,197	DHINERCE	2,033		2,140	
ITC-TI	747		1,593		1,765	
ITC-TOUR	-					
ITC-GO	450		440		375	

## FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CRMADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT	19	79-80	19	80-81	19	81-82
<b>HEENCY</b>	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
JUSTICE					1	
JUST			and the second second			narr shirif dana
JUST-ADM				NUM 0'0' 000		
JUST-CUIO CHRC						
LEC						
LHEOUR						
LHB HATIONAL DEF	ENCE	diad shall drive		Part any que		and shift are
HDEF		2,010	-	2,995		3,164
HDEF-SER		2,010	while other effect	2,995		3,164
HEATIONAL HEA		WELFARE 164	5,926	267	4,918	294
нны ННЫ-АДМ	4,703	164	3, 326	201	4,310	234
NHW-HSS	4,673		5,896	10	4,888	25
NHW-MS						and any very
HHW-HP	30	164	30	257	30	269
HHW-IS		nu == -0				
MRC	61,563		72,143	and and and	77,753	
NATIONAL REP	ENUE					
HREV-TAX						
FOST OFFICE						
PO	with most later					
FEELY COUNCI	L					
PC						
COL					10.0 mm 400	
ECC.				444		
PUBLIC WORKS		00				1.0
PN-PTS		60 60				10
CHC		288	19	97	21	107
NCC					· · · · · · · · · · · · · · · · · · ·	
BESIONAL ECC	NOMIC EX	PANSION				
REE		dan biri upp	400.000.000	dans your your	galles show theme	
	TECHNOLC					
ST	9,681	1,317	17 040	1,847	16,985	1,908
NRC-SIR	9,681	1,317	13,642	1,847	16,985	1,908
HEC-STI		1) 011	101045		101000	17000
HEERC	105,065		137,472		146,377	
SC				WHEN DOLL ADJ		
SECRETARY OF	STATE					
SECS			have they don't	many dama and a	where some states	-
SECS-OL SECS-ES	Main other State		The same find			
SECS-TRA	ter sin ant					
SECS-CIT		444	Mire show more			any man hala
PSC			ALC: 1000 ALC:			non one and
SCLICITOR GE	NERAL					
SGEN OPM		many sides sides				
SGEN-ADM CMP		6		35		25
SUPPLY AND S		0		23		20
-95		1,459		1,644		1,688
SS-SUPP		1,459		1,644		1,688
STCAN		Adda and your	ality main stress		490. mm 100	
THHSPORT	-					
TPT TPT-ODM	766	20	50		50	
TPT-ADM TPT-MAR	716					
TPT-AIR		20				
TPT-SUR	50		50		50	
OTC						
TEEASURY BOA	RD					
TB ADM	white and a black					
TB-ADM						
TOTAL	189.572	16.334	238.053	20.394	255.826	21.498
A REAL POINT						3

## FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

#### BY DEPARTMENT OR AGENCY

DEPARTMENT		1979-80			1980-81	979 - 987 - 989 Adda alka 2011 (ana 402) yan mar (ana		1981-82	*******
OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE	in with their seas ways many output many filling the						** ** **		
AGR AGR-ADM	5,481	2,928	8,409	5,607	1,932	7,539	6.400	9	6,409
AGR-DEV	3,134		3,134	3,212		3,212	3.729		3,729
AGR-RI AGR-CGC	851	2,925	3,776	709	1,928	2,637	812	6	818
CDC CLFB	1,496	3	1,499	1,686	4	1,690	1,859	3	1,862
COMMUNICATION	21						-mo mit am		and the same
COMM COMM-COMM	6		6	29 29		29	34		34
COMM-AC						29	34		34
CBC				and the max		<u></u>			
CRTC NFB	192	9	201	211	13	224	227	15	242
NLIB	12,983	3,845	16,828	15,891	4, 120	20,011	14,588		
PA					4,120			4,071	18,659
SSHRC CONSUMER AND	CORPORATE	OFFO IPS			Auth Auth unw	and and a			and some states
CCA	9,613		9,613	11,205		11,205	12,088		12,088
CCA-ADM CCA-CON	1,504		1,504	1,678		1,678	1,850		1,850
CCA-COR	8,109		8,109	9,527	ofter after man	9,527	10,238		10,238
CCA-CICP ECONOMIC DEVE	I OPMENT					were man and		table date with	
ED		ware date ware			dire line deed	the way and			
EMPLOYMENT & EI	IMMIGRATIO	M 			man data sum				
E I – ADM	man man man	notes speep appe							ann this am-
CEIC ENERGY MINES	& RESOURCE	S					much Bilds Bald	and the data	
EMR	30,372	3,706	34,078	30,388	4,368	34,756	37,477	4,295	41,772
EMR-ENER EMR-MES	347 30,025	40 3,666	387 33,691	428 29,960	40 4,328	468	1,446	4,175	1,566
AECB					60° 1447 1447			840 840 mm	
AECL NEB	3,501 1,336	10,035	13,536	3,822	11,649	15,471	4,329 1,571	13,920	18,249
ENVIRONMENT	107 007	0 707							
ENV-ADM	127,607 898	8,303	135,910 898	143,655 1,180	8,922	152,577 1,180	164,768 1,189	10,272	175,040
ENV-ES	125,816	8,088	133,904	141,493	8,687	150,180	162,498	10,012	172,510
ENV-EPS ENV-AES	2,469 87,949	290 3,231	2,759 91,180	2,668 101,930	303	2,971	2,535	287	2,822
ENV-ECS	31,732	4,567	36,299	32,395	4,725	37,120	39,290	5,750	45,040
ENV-FOR ENV-PC	3,666	215	3,666	4,500	235	4,500	4,588	260	4,588 1,341
EXTERNAL AFFA	IRS							177 Mil an	
EA-CIA			and field spin	470 470 anto				**** 0.67 and	
CIDA IDRC	366 219	23,321	23,687 775	411 290	23,747	24,158	465 322	26,578	27,043
FINANCE	L. 1 .		115	200	233	1,223	322	1,048	1,370
FIN-FEP								484 685 446	
FISHERIES AND	OCEANS								
F&O F&O-FM	51,628 51,628	3,176 3,176	54,804 54,804	53,678 53,678	2,541	56,219	49,040 49,040	4,160	53,200 53,200
INDIAN AFFAIR	S & NORTHE	RN DEVELOF	MENT			36,213	45,040	4,160	337200
IAND IAND-IIA	592	21	613	671	21	692	762	21	783
IAND-NA	592	21	613	671	21	692	762	21	783
INDUSTRY TRAD	E AND COMM	ERCE 483	483		650	650	and other and	650	650
ITC-TI	077 MM 840	483	483		650	650		650	650
ITC-TOUR ITC-GO				alah ana alah ana		ana ana			

#### FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

#### BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80	and the any sets life you me		1980-81			1981-82	
OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE	the over only the and and and the bill			a bill bill bill bill and and and and and and him bill			1 Mill Mill para 475 100 100 100 100 ann 201 100 400		
JUST	name apply down			and then over		again balan dasis	take also also		
JUST-ADM JUST-CUIO	100 100 une				and the state	proper marks which			and the same
CHRC					MAAD GARM PROV	game labor allow		-	
LRC			4115 MIC		date part bloc	man limit hits		and the state	alara 1999 Math
LABOUR									
NATIONAL DEFEN									
NDEF	750		750	780	Anna Anna Anna	780	834		834
NDEF-SER NATIONAL HEAL	750 TH AND WEL		750	780		780	834		834
NHW	26,644	2,399	29,043	27,238	2,995	30,233	31,668	3,004	34,672
NHW-ADM		1 570	1.700		1.005			1.051	
NHW-HSS NHW-MS	150	1,578	1,728	191	1,985	2,176	232	1,951	2,183
NHW-HP	26,494	821	27,315	27,047	1,010	28,057	31,436	1,053	32,489
NHW-IS MRC	109	2,113	2,222	121	2,443	2,564	139	2 666	2,805
NATIONAL REVE		2,115	6,222	1 2 1	2,443	2, 364	139	2,666	2,003
NREV	also feet and			100 Mill 100					
NREV-TAX POST OFFICE	and the same	and have been	and date app			anne want distr			
PO	Ball and over					And Diff any			teles dans seres
PRIVY COUNCIL									
PC COL					and data				
ECC					and the own				
PUBLIC WORKS									
PM PM-PTS	1,436	760	2,196	2,626	1,424	4,050	5,158	1,091	6,249
CMHC	578	760 301	879	630	1,424	4,050	5,158 693	1,091	6,249
NCC									
REGIONAL ECON	OMIC EXPAN	15ION 1,589	1,589		3,021	3,021		6,427	6 407
SCIENCE AND T	ECHNOLOGY	1,305	1, 305		3,021	3,021		6,444	6,427
ST									
NRC-SIR	29,261	1,541	30,802	34,014	2,270 2,270	36,284 20,077	39,259 20,099	2,817 2,751	42,076
NRC-STI	13,568	*****	13,568	16,207		16,207	19,160	66	19,226
NSERC	455	10,293	10,748	740	15,436	16,176	861	21,247	22,108
SC SECRETARY OF :	STATE		disk same seres			una and our		area and pine	
SECS		1000 and 1000		man which differ				Line and and	
SECS-OL	time and the		were also and		1000-1000-1000				
SECS-ES SECS-TRA		the same and		which with steps				the tree and	
SECS-CIT									
PSC COLLECTOR CEN		Aller March Sales		AND 1887-1971					
SOLICITOR GEN: SGEN	LKHL	time page time.				with the second	and the late		
SGEN-ADM			more down		ALC: 100 - 100	spen (size diff)		jalar advit same	010 9mi 11-
RCMP		while same series	1999 and 1999			1000 cours 1000	50		50
SUPPLY AND SE	EFICES 14	2,216	2,230	15	2,237	2,252	16	2,115	2,131
SS-SUPP	14	2,216	2,230	15	2,237	2,252	16	2,115	2,131
STCAN		And diff. over	which allow street						
TRANSPORT TPT	10,245	3,243	13,488	7,720	3,695	11,415	5,832	3,493	9,325
TPT-ADM	92	974	1,066	90	1,093	1,183	85	1,043	1,128
TPT-MAR	6,412		6,412	5,593		5,593	5,354	an 100 cm	5,354
TPT-AIR TPT-SUR	222 3,519	2,269	2,491 3,519	1,618	2,602	4,220	392 1	2,450	2,842
CTC	3,313	60°	2,312	413					
TREASURY BOAR									
TB TB-ADM	tana ana ana						and bire you	the star and	alan Ball dans
	313,388	80,838	394,226		93,488				

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

## FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1979-80 (FULL-TIME EQUIVALENT PERSON-YEARS)

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AGRICULTURE								
AGR	5	1,008	127	1,066	456	1,368		4,030
AGR-ADM AGR-DEM	The Mark Man	32	26		52			117
AGR-RI	5	905	99	943	391	1,330		3,673
AGR-CGC CDC		51	1	57	4 9	35		148 92
CLFB		20	and they limb	50				
COMMUNICATIONS								
COMM	9	195	41	146	81	66		538
COMM-COMM COMM-AC	9	195	41	146	81	66	della sono suno	538
CBC			they use hid		ALS: 170 ALS	der ben der		
CRTC	Mades WITE ALSO		-			Main main dog.		···· ··· ···
NFB NLIB		3	app dist one	9	1	after term man		13
NMUS	3	29	67	93	45	92		329
PA	-	dans was any		failer films appro-	1017 (Do. 1016)	Add with you	the link was	max lifty want
SSHRC CONSUMER AND C	ODDODOTT OF	TAIDE		uniter mana mana	time into mon	dan ant es,	pre- take man	
CCA HND C	ORPORATE AF	FAIRS 187	21	23	164	3	1977 Salari Salari	400
CCA-ADM	No.		there is a		the same ter		alored manage more	
CCA-CON	1	10	8	23	4	3		49
CCA-COR CCA-CICP	1	177	13	with this map	160			351
ECONOMIC DEVEL	OPMENT							
ED			may not the				ALM MIN. (11)	
	MMIGRATION				and they would	ten dar en		
EI-ADM	with the num	with many many	day the site	the sist are				
CEIC		one take over			Inite same water			
ENERGY MINES &						150		
EMR-ENER	62	869 13	53	866	291	189	with data data	2,274
EMR-MES	4	856	53	866	290	189		2,258
AECB		6		MPR offer seres	I			7
AECL	16	613		800	324	569		2,322
NEB ENVIRONMENT	1	27	1	7	11			47
ENV	24	1,545	373	1,959	649	128	10.00 AUG.7 10.00	4,679
ENV-ADM	AND 100 MA	12	12		12			36
ENV-ES ENV-EPS	24	1,514 78	361	1,959	636 15	125	ther use day.	4,620
ENV-AES	5	656	165	1,145	342	39	Ann. 1000 (1000)	2,352
ENV-ECS	7	316	160	248	274	76	ting and all	1,081
ENV-FOR	11	465	33	511	5	3		1,025
ENV-PC EXTERNAL AFFAI		19	diar historic	and the same	T	3		23
EA								
EA-CIA	and then shall			Aller Arapp alash				
C I DA I DRC	2	32	9		24			16 60
FINANCE	2	36	1	1	C4			00
FIN	010 THE THE	mind room annu				-	then dots one	
FIN-FEP						and and one		
FISHERIES AND - F&O	OCEHNS	822	77	752	117	249		2,022
F&O-PM	5	822	77	752	117	249		2,022
INDIAN AFFAIRS		DEVELOPMENT						
IAND IIA	and the line	39	3	7	3	1		53
IAND-IIA IAND-NA	and that have	39	3	7	3			53
INDUSTRY TRADE	AND COMMER		5		U	4		
ITC		and one one	177		87	ana 144 ana		264
ITC-TI		www.unit.data	174		87	and who was		261
I TC-TOUR I TC-GO	and was and		3	MET dan dan			and look data	3
110 00			0					0

## FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1979-80 (FULL-TIME EQUIVALENT PERSON-YEARS)

DEPARTMENT OR AGENCY EXE	CUTIVE F	CIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
JUSTICE								
JUST			aut 100 alla			100 U.S. 100		
JUST-ADM JUST-CUIO	aliana and aliana	ages also and						400 see
CHRC			and you you	100 - 400 - 100				
LRC		and a most sense.		100 mm 400		and shift and		
LABOUR		deall later attice	alter dage view	Adda 2010 serv-	400. Unit 100	100 Adds 400		
NATIONAL DEFENCE NDEF	12	524	100	502	258	271	164	1,831
NDEF-SER NATIONAL HEALTH AN	12	524	100	502	258	271	164	1,831
NHW	G	499	25	253	211	29	and the set	1,023
NHW-ADM				440 440 MM		girth more than		
NHM-HSS	1	6	4	I	5	100 OT 100	size time stat	17
NHW-MS		2			1			3
NHW-HP	5	492	21	252	205	29	10-10 AMB AMA	1,004
NHW-IS				age gat and		Add 640 48*		
MRC NATIONAL REVENUE	6	2	8		24			40
NREV-TAX			1000 640 440		the sec dis		and our day	
POST OFFICE								
PO PRIVY COUNCIL				80 m.m.	gin dat ins		And shall office	an an dh
PC	and and the	area dalla dalla	No. 40. 100	the MD new		1010 010 date		
COL ECC			which which many					
PUBLIC WORKS								
PW		41	7	9	I	100 pm -		58
PW-PTS CMHC	2	41	7	9 10	1 7	anno 040 000		58
NCC		13	4 					
REGIONAL ECONOMIC REE	EXPANSION	4		Mar 945 953		date source here		
SCIENCE AND TECHNO	LOGY	bite 444 444	Minist Water usual	100 (MA 4-4)				
NRC	5	1,092	208	981	582	292		3,160
NRC-SIR	5	1,040	170	980	462	288		2,945
NRC-STI		52	38	1	120	4	and man later	215
NSERC	4	2	23		32			61
SC								
SECRETARY OF STATE								
SECS						per diff dar		
SECS-OL SECS-ES					and gain over			
SECS-TRA						tion time from		
SECS-CIT				and any star		Back 510 PTD		
PSC SOLICITOR GENERAL		ante della falla						
SGEN		Anna 1010 1017						Bart 440 848
SGEN-ADM						and diff and		
RCMP SUPPLY AND SERVICE	 IS			and 4-0 mile	dant som som	100 BP	and sets our	
SS	Ø		2		2	AND	100 and 100	4
SS-SUPP	Ø	many many shift	2		2			4
STCAN TRANSPORT				90 mm -mm			And 040 Mills	gan dife care
TPT	1	176		7	2	12		199
TPT-ADM	0	54		0	0	0		55
TPT-MAR	1	6		7	2	12		28
TPT-AIR		116	and the shift				ga au mu	116
TPT-SUR	anna 1940 anna							
CTC TREASURY BOARD		Burne Hillin Blan			and and less			
TB		4400 AND 440			100 AUX 400			
TB-ADM								

## 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
		The ada are seen and and the set of the set	and the section and the section of the section of the	n mere aper tilde unte lange anne ment pape anne adate stilde ann				- and any other state that they doe
AURICULTURE AGR	5	1,027	130	1,057	437	1,365		4,021
AGR-ADM AGR-DEV		38			49			119
AGR-RI AGR-CGC	5	919	100	938 56	375	1,327	ten ten etc	3,664
CDC		20	1	59	9	3		92
CLEB COMMUNICATIONS		We also app					alan alas ust	
COMM COMM-COMM	9	207	42 42	149 149	86	66 66	and the second	559 559
COMM-AC								
CEC CATC			apper page office	tala ana aga-		499 M.O. 499	and have	
HFB HLIB	dana Mito Ann.	3			1	1000 010-000-		12
HIUS	3	29	67	93	45	90	770 Elle das	327
PA SSHRC	alaan first alaa	alliti lalar anto			the same take	data ana ana	alles save save	
CONSUMER AND CO	ORPORATE AF	FAIRS 181	15	24	161	3		386
CCA-ADM					Web tasks were			
CCA-CON CCA-COR	1	11 170	8	24	6 155	3		53 333
CCA-CICP ECCNOMIC DEVEL	OPMENT		data data bash			Math with Solt		
EI		Wer Web will		share down space	the use and			500 Sec. 46.
EMPLOYMENT & II		1000 0001 data		mar can data	were shad man			-
EI-ADM CEIC		difference and				finite more duals	and serve and	
ENERGY MINES &		000	66	057	207	169		2,259
EMR-ENER	62	886 13	55	857	287 1	168		16
EMR-MES AECB	4	873 6	55	857	286	168	and data and	2,243
(AECL	17	643 28		818	325	569		2,372
MEB ENFIRONMENT	1							
ENV-ADM	27	1,541 12	371 13	1,948	655 20	128		4,670 45
ENV-ES	27	1,508 78	359 3	1,948	634	125		4,600
ENV-EPS ENV-AES	25	650	164	1,136	15 339	39		2,333
ENV-ECS ENV-FOR	13	315 465	160 32	248 509	274	76		1,080
ENV-PC EXTERNAL AFFAI		21	1000 1000 Mill		1	3		25
EA		data statu	with more time		where we we have	100 g (200, 1000		
EA+CIA CIDA	Annual Annual Solution	ditt me ant	9	differ non-	7		adulti papa titar	16
TERC FTEANCE	2	32	3		26			62
<b>F14</b>	and approximate	with data data -		data fain data	which many many	Alex - 640		
FINHERIES AND	OCEANS		wilder dags from			400 400 99		
FED FED-FM	5	822	77 77	773 773	1 I7 1 17	249 249	almari peper dada.	2,043
INCIAN AFFAIRS	& NORTHERN	DEVELOPMENT						
IAND-IIA		37	3	6	1			48
IAND-NA INDUSTRY TRADE	OND COMMER	37 CF	3	6	1	1		48
ITC		Anne dallas senas	223		110	which same same	400 Bits 488	333
ITC-TI ITC-TOUR		Anda Apala agan	220		110	All and an		330
ITC-GO		-	14				175. AND 145	3

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

FULL-TIME	EQUINHLENI	PERSON-YEHRS	2
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DEPARTMENT OR AGENCY	EXECUTIVE F	CIENTIFIC & ROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
JUSTICE	n and dat for the same set and the same set app a		nine mité mite que que non alle dité que appe firs	* *** pap ann ann ann ann ann ann ann ann ann		n mak and over han and une off first and even over shift a	ala suu alay alah bila alah alah uliy suu uliy padi uru	
JUST	ana mas	and this pape	webs come dans	and all other	anna dinità dinità	space which dimp		
JUST-ADM		and one are			and rear over			
JUST-CUIO CHRC	and the same	Inter also and	and wide per	and and an	and date date		The same set	with mile line
LRC	and other shift	And also area			gag and Ref.		with order order	
LABOUR								
LAB	and the set	where where with		and their state	and dive not	ante sure stabl	start and start	con Math gapp
NATIONAL DEFENC								
HDEF	12	560	100	504	257	268	168	1.869
HDEF-SER	12	560	100	504	257	268	168	1,869
NATIONAL HEALT	1 HND WELFHRI 6	600	28	339	200	30		1,210
NHW-ADM		000	<u> </u>	333	208	30		1,210
NHW-HSS	1	5	6	1	5	and only only		17
NHW-MS		25		Pri ser un	6	Auto 1		31
NHW-HP	5	570	22	338	197	30		1, 162
NHW-IS	with BEE 14th	and prot prot			Anny 1914	and the me		
MRC	5	2	8	unit 2010 tals	24			39
NATIONAL REVEN								
NREV TAY	antes attitu attata	finite cance server	and and our	ener tala ann		ana ease oder		and the last
NREV-TAX POST OFFICE		and the line	And all als	die were were	and and has		and such data	
FO		Brd war was	and 201 me	-				
PRIVY COUNCIL								
PC	who god man	· · · ·			have which more			
COL	and one DM	tata por esta	areas almost some		and one has		which gives during	
ECC HORKS		And and over	ET-C value MEM	tata men uno	anna linite dona.	augo dado dalla	man ware over	
PUBLIC WORKS		45	7	9	1	100 000 000		63
PW-PTS		45	2	9	1	and one one		63
CMHC	2	19	1	10	7	am an 194		39
NCC								
REGIONAL ECONO	HC EXPANSION	4						
REE		PH an an	allen ann been	ente laure como		god over max		anto fana fana
	CHNOLOGY							
ST	5	1,095	200	001	and the set	207		7 105
HRC HRC-SIR	5	1,036	206	981 980	551 435	287 283	anti auto inte	3,125
NRC-STI		59	32	1	116	4		212
NSERC	4	1	29		41			75
SC					-7 A			
	TATE							
SECS	and the data		state and with	Ind Ind one			bella upper minis	
SECS-OL					and see east			
SECS-ES	and will have	make basis with		are the upp	gred ours take	anto term gros		Cas 244 244
SECS-TRA		and and gog	tern som ave	and with upper	100 mil 400	tata wite ana		
SECS-CIT PSC	and any the		and the line	and this are	and and first	tain cells tain	and the data	cititi tain amir
SOLICITOR GENE					and and on-		per sea una	
SGEN	and tells area	and whe same	mm pag www	per 100				
SGEN-ADM		the ann one			and and only		100 million and	
RCMP		when many some					man ode ode	
SUPPLY AND SER								
SS	0		2		2	with table upon		4
SS-SUPP	Ø	with they and	2		2	BHE BHE water		4
STCAN	and page very	and they will	and the sum			Ind and game	uply also seen	
TRANSPORT TPT	3	137	6	32	7	29	-	213
TPT-ADM	0	45		32 0	Ó	29		46
TPT-MAR	1	5	mit aan 194	7	3	12	214 AVE 040	27
TPT-AIR	ź	86	6	25	4	17	the state and	140
TPT-SUR	and the state		tion mate live				and any inte	an Pri arr
CTC	0077 0071 1070				are live live	term life and		
TREASURY BOARD								
TB			104 miles 400		and an BH	n:	who the stat	the out the
TB-ADM								
	114	7,900	1,383	7,613	3,365	3,253	168	23,794

## FEDERAL PERSONNEL ENGAGED 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	6	1,033	132	1,047	438	1,377		4,033
AGR-ADM AGR-DEV	4000 van erw	37	28	7	47	4400 0000 4000		119
AGR-RI	6	925	102	924	377	1,339		3,673
AGR-CGC CDC		51 20	1	58	4	35		149 92
CLFB		20	1		10			52
COMMUNICATIONS								-
COMM COMM-COMM	9	196 196	42 42	146 146	81 81	66 66		540 540
COMM-AC		100		140				
CBC		alan www.anala	and was also	which makes when	pre- une mm	and an over the		
CRTC		2	ware divid links	7	 I	where many error	1000 data data	10
NLIB				f ver eine one		"I" that and		<u> </u>
NMUS	3	29	65	93	50	80	1-1 page 40-1	320
PA SSHRC	and the second			and see into	and the set			anno tras aire
CONSUMER AND C	ORPORATE AF	FAIRS						
CCA ODM	2	168	27	26	174	3	antis 2000 allas.	400
CCA~ADM CCA~CON		10	8	26	7	3		55
CCA-COR	1	158	19		167			345
CCA-CICP	ODMENT	have small pro-	will say the	4900 0001 take	are and the	falles faller serve	www. Unit direct	
ECONOMIC DEPEL	UPPER I			-		That shall also	anna anna aigip	
EMPLOYMENT & I	MMIGRATION							
EI EI-ADM		and were and		1000 1000 1000			and and and	
CEIC	man lifter ways	the out side					and she had	
ENERGY MINES &								
EMR EMR-ENER	7	983 95	59	808	280	169	and a sea and	2,305
EMR-MES	4	888	59	808	279	169		2.207
AECB	17	6	and and an	834	1	E70		2,427
AECL NEB	1	666 29	I	¢04 5	334 8	576	4741 650 650	44
ENVIRONMENT								
ENP-ADM	41 13	1,548	367	1,963	644	130		4,692
ENV-ES	28	1,512	367	1,947	643	126		4,623
ENV-EPS	2	77	3	55	15	10		161
ENV-AES ENV-ECS	5	651 315	171 160	1,130 248	348	40 76	tion page and	2,345 1,080
ENV-FOR	14	469	33	514	6		NAME AND ADDR	1,037
ENV-PC EXTERNAL AFFAI	DC	23		THE MAN AND	I	4		28
EATENHL HEFHI		allin anna anna			and the own	man likel state		
EA-CIA		alle tana						
CIDA IDRC		38	9	andre fanne meger	7 28			16 70
FINANCE	9	50	<u> </u>		20			10
FIN		and an one		Name and Address of the Owner o	which many mean		AMOV NamO - Olympic	4846 970 970
FIN-FEP FISHERIES AND	OCEONS			time terms were	allock ward were	way the dis-		
F&O	4	822	77	773	127	310		2,113
F8.0-FM	4	822	77	773	127	310	and start start	2,113
INDIAN AFFAIRS	& NORTHERN	36	3	6	PE -	1		47
IAND-IIA		And also been	family among Party	ware PPD take		A		
IAND-NA	OND COMMER	36	3	6	Ĩ	1	dan mer side	47
INDUSTRY TRADE	HND COMMER		223	with state states	110	many wheel man.		333
ITC-TI	weak only space		220	mild and was	110			330
ITC-TOUR	man 4900 time		3		alanti tanak gang			3
ITC-GO			3		and dest pro-			2

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

EPARTMENT R GENCY EX	ECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTA
USTICE								
JUST								
JUST-ADM				dille dille illes	table and one			
JUST-CUIO			the file car					
CHRC								
ABOUR								
LAB	faile white some			and and and			and the sec	and the same
ATIONAL DEFENCE						0.07		
NDEF	12	560	100	504	258	267	169	1,870
NDEF-SER ATIONAL HEALTH A	12 ND LIEI FO	560	100	504	258	267	169	1,010
NHW	6	621	29	353	210	30		1,248
NHW-ADM					and the sec			
NHW-HSS	1	5	6	2	5			18
NHW-MS		27	and this can		6			33
NHW-HP	5	589	23	35 I	199	30		1, 197
NHW-IS	5	2	8	These series which	24			39
MRC ATIONAL REVENUE	J	C	0		64			39
REV REVENUE			dan Min says					
NREV-TAX				which along health				
OST OFFICE								
0	onat hills was			onto otto sudd	and the max	And, then all a		
RIPY COUNCIL		MIN: 040 400						
PC COL								
ECC								
BLIC WORKS								
۳W		42	9	9	2			63
PW-PTS		42	9	9	227	and and the		63
CMHC	2	19	I	10	7			39
100	EUDANC I		and the star					
EGIONAL ECONOMIC Ree	EXPHNSI			6000 1910 1910				
IENCE AND TECHN								
T					where lasters lasters			
IRC	5	1,115	215	982	565	290		3,172
NRC-SIR	5	1,051	180	981	443	286		2,946
NRC-STI		64	35	1	122	4		226
ISERC	4	1	31		45			81
SC ECRETARY OF STAT								
SECS		water black dualst	and diffe time		and the same			
SECS-OL		and and white	1000 (co. 1000		allow Web'			
SECS-ES				have other down				
SECS-TRA		And over new		-	1998 Mile 040	-0.0 0.0 1.00		
SECS-CIT			and any film					
SC DLICITOR GENERAL		while some which	1000 COLD 1000					
SGEN	the the sec	and data and			NUT 11.0 10.0			
SGEN-ADM				min time year				
CMP			1010 Marc (100)					
JPPLY AND SERVIC								
SS CURR	0		2		2			4
SS-SUPP	Ø	differ (panh (panh	2		2			4
STCAN RANSPORT								
TPT	3	131		21	3	26		184
TPT-ADM	ø	46	100 star - 110	I	0	Ø		47
TPT-MAR	1	5		7	3	12		27
TPT-AIR	2	81	Acres Many Amile	14	hands haven	14		110
TPT-SUR	the statute		ano alizo ###	which little water		www. parts shaft		
CTC Reasury board		olar olar way				the last star		
B B						And 14.0 14.0	mp die ure	
TB-ADM	-			the data set.				
		the state and state and state and state and the line and state and						
DTAL	129	8,046	1,401	7,587	3,399	3,325	169	24,056

#### FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

( FULL-TIME EQUIVALENT PERSON-YEARS )

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1979-80								
	59	5,569	552	4,676	1,639	2,664	154	15, 312
INTRAMURAL RSA	,35	1,944	488	2,785	1,494	579	0	7,324
ADMIN. OF EXTRAMURAL PROGRAMS	16	218	283	31	248	26	IØ	832
TOTAL	110	7,730	1,323	7,491	3,380	3,269	164	23, 468
1980-81								
INTRAMURAL R&D	62	5,654	555	4,708	1,607	2,658	158	15, 401
INTRAMURAL RSA	37	2,026	487	2,877	1,472	569	Ø	7,468
ADMIN. OF EXTRAMURAL PROGRAMS	15	219	341	28	286	26	10	925
TOTAL	114	7,900	1,383	7,613	3,365	3,253	168	23,794
1981-82			A.					
INTRAMURAL R&D	67	5,798	551	4, 697	1,621	2,679	159	15, 57 1
INTRAMURAL RSA	45	2,025	509	2,860	1,485	620	Ø	7,544
ADMIN. OF EXTRAMURAL PROGRAMS	17	222	341	31	293	26	10	941
TOTAL	129	8, 046	1, 401	7,587	3, 399	3,325	169	24, 956



# Human Sciences

## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY PERFORMER, 1979-1982

#### (\$ THOUSANDS)

	1979-	-80	1980-	·81	1981-	82
PERFORMER	\$	%	\$	%	\$	*
INTRAMURAL	301,095	( 75.8)	345,768	( 77.4)	452,605	( 79.8)
INDUSTRY	14,234	( 3.6)	15,712	( 3.5)	18,833	( 3,3)
UNIVERSITIES	40,483	( 10.2)	46,452	( 10.4)	51,520	( 9.1)
NON-PROFIT INSTITUTIONS	14,214	( 3.6)	12, 192	( 2.7)	13,286	( 2.3)
PROVINCIAL & MUNICIPAL	7,602	( 1.9)	7,076	( 1.6)	7,840	( 1.4)
FOREIGN	14,929	( 3.8)	14,050	( 3.1)	16,996	( 3.0)
OTHER CANADIAN	4,708	( 1.2)	5,642	( 1.3)	6,318	( 1.1)
			a way and this will use total over and and the	Anto here allet alog ann were <sub>soon</sub> bete soon diff	field and field whe are hed our our ore or	
TOTAL	397,265	(100.0)	446,892	(100.0)	567,398	(100.0)
		- Name have fixed were were fixed only some data and		and and half also see disp and uses mite has	side face was sure ours and sure sure ours are	

#### FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES TOTAL ALL COMPONENTS

#### FISCAL YEAR 1979-80

#### (\$ THOUSANDS)

	INTRAMEL	CANADIAN INDUSTRY	CANADIAN UNIVERSITY	CANADIAN N-P INST	PROF. MUN. GOVERNMENTS	FOREIGN PERFORMERS	OTHER PERFORMERS	TOTAL
IN-HOUSE R&D R&D CONTRACTS SUPPORTING CONTRACTS RAD GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTRAMURAL R&D CAPITAL - R&D	25,606 1,432 1,495 0 7,702 151	3,047 0 1,618 0 0	1,987 0 19,127 5,789 0 0	0 592 0 7,494 10 0 0	0 73 2,204 8 0 0	227 8 9,239 632 0 8	1,824 0 270 169 0	25,606 9,182 1,485 39,952 6,600 7,702 151
SUB TOTAL RED	36,376	4,665	26,903	8,096	2,277	10,098	2,263	90,678
DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS. STUDIES OPERN'S & POLICY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA	119,480 42,577 17,731 45,170 80 27,376 5,601 6,784	2,872 623 2,537 2,755 491 291 0 0	645 1.747 194 374 10.328 292 0 0	71 3,860 752 713 184 538 0 0	365 1.104 14 0 3.842 0 0	1,221 204 3,399 0 0	254 223 140 556 481 791 0 0	123,687 51,355 21,572 49,575 14,963 33,130 5,601 6,704
SUB TOTAL RSA	264,719	9,569	13, 580	6,118	5, 325	4,831	2, 445	306,587
TOTAL	301,095	14, 234	40,483	14,214	7,602	14,929	4,708	397,265
				was not see are use the life of the life	the one one one one are not and and and are one are in	a see see and did for boll sid for one will a	an an we go an py on we we see an initial	

#### FISCAL YEAR 1980-81

#### CANADIAN INDUSTRY CANADIAN CANADIAN UNIVERSITY N-P INST PROV. MUN. GOVERNMENTS FOREIGN OTHER PERFORMERS PERFORMERS INTRAMEL TOTAL 28,325 8,959 1,615 39,455 7,484 7,780 84 IN-HOUSE RED RED CONTRHCTS SUPPORTING CONTRACTS RED GRANTS IESEARCH FELLOWSHIPS ADMIN. EXTRAMURAL RED CAPITAL - RED 28,325 1,598 1,615 0 2,854 0 799 0 0 0 Ø 0 0 176 6, 196 16 0 0 1,700 22,113 6,747 0 181 7,799 567 0 2, 191 612 154 259 Ø 1,936 0 7,780 84 0 ñ SUB TOTAL RED 39,402 3,653 30,560 6,388 2, 195 8,547 2,957 93,702 DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS. STUDIES OPERN'S & POLICY STUDIES ELUCATION SUPPORT NUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA 144, 842 47, 522 27, 850 44, 285 104 28, 862 6, 485 6, 416 238 3,179 906 875 0 606 0 2 3,633 743 2,655 4,127 610 291 149,860 57,176 32,346 50,169 16,745 33,993 6,485 6,416 400 2,514 412 360 11,818 388 490 236 198 480 489 792 257 0 1,412 325 42 3,724 ø 3,054 000 0 0 SUB TOTAL RSA 12,059 306,366 15,892 5,804 4,881 5.503 2,685 353, 190 TOTAL 345,768 15.712 46, 452 12, 192 7,076 14,050 5,642 446,892

(\$ THOUSANDS)

FISCAL YEAR 1981-82

(\$ THOUSANDS)

	INTRAMEL	CANADIAN INDUSTRY	CANADIAN UNIVERSITY	CANADIAN N-P INST	PROV. MUN. GOVERNMENTS	FOREIGN PERFORMERS	OTHER PERFORMERS	TOTAL	
IN-HOUSE R&D R&D CONTRACTS SUPPORTING CONTRACTS R&D GRANTS RESEARCH FELLOWSHIPS ADMIN. EXTRAIURAL R&D CAPITAL - R&D	33,903 1,153 1,779 0 8,723 637	3,411 0 1,525 0 0	0 1,942 0 22,853 9,170 0 0	256 0 6,573 0 0 0	0 261 1,812 0 0	0 112 0 8,018 575 0 0	2,758 0 666 153 0 0	33,903 9,893 1,779 42,247 9,898 8,723 637	
SUB TOTAL R&D	46,195	4, 936	33,965	6,829	2,073	9,505	3, 577	107,080	
DATA COLLECTION INFORMATION SERVICES ECONOMIC & FEAS. STUDIES OFERN'S & POLICY STUDIES EDUCATION SUPPORT MUSEUM SERVICES ADMIN. EXTRAMURAL RSA CAPITAL - RSA	214,821 60,093 28,388 58,577 126 30,146 7,272 6,987	4,167 815 3,666 4,347 583 319 0 0	434 3,055 607 527 12,508 424 8 8	448 3,173 1,504 695 0 645 0 0	281 2,070 63 3,353 0 0	3,223 312 41 3,915 0 0	250 277 205 649 496 864 864 8	220,393 72,7882 34,682 64,836 17,691 35,751 7,272 6,987	
SUB TOTAL RSA	406,410	13, 897	17, 555	6, 457	5,767	7,491	2,741	460,316	
TOTAL	452,605	18,833	51,520	13,286	7,840	16,996	6,318	567,398	

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## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY

DEPARTMENT	1	979-80			1980-81			1981-82	
DEPARTMENT OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE AGR AGR-ADM AGR-DEV AGR-RI AGR-CGC CDC CLFB	50  50 67 62	1,491	1,541 491 1,050 479 79	50	1,807 607 1,200 600	1,857	50	2,221	2,271
NED	1, 491 1, 491  542	4,228 3,646 582 3,348	5,719 5,137 582 3,348 542	752 752  776 	5,222 4,559 663		1,474	5,559 4,800 759 3,974	7,033 6,274 759
PA SSHRC	1,586	14,730 30,397 9,320 15,288	31,983 9,320 36,581	1,809 24,857	30,436 9,900 17,784	32,245 9,900 42,641	3,586	21,572 31,712 12,009 18,568	21,572 35,298 12,009 45,601
CONSUMER AND CO CCA ADM CCA-CON CCA-COR CCA-CICP ECONOMIC DEVELO	1,822 1,163 332 327	753	2,575 433 1,163 332 647	2,067 1,439 272 356	712 489  223	2,779 489 1,439 272 579	1,893 1,551 342	1,069 649  420	2,962 649 1,551  762
ED EMPLOYMENT & II		1,600	1,600	And Tables with	1,806	1,806		2,199	2,199
EI EI-ADM CEIC	1,292	7,911 7,911 5,800	9,203 9,203 5,800	1,528 1,528	8,001 8,001 7,758	9,529 9,529 7,758	1,571 1,571 	8,479 8,479 8,371	10,050 10,050 8,371
ENERGY MINES & EMR EMR-ENER EMR-MES AECB	1 069	3,705 1,465 2,240	5,574 1,465 4,109	1,646 1,646	3,096 1,900 1,196	4,742 1,900 2,842	1,424 1,424	3,388 2,070 1,318	4,812 2,070 2,742
AECL NEB		445	445		465	465	March with PET	518	518
ENVIRONMENT ENV ENV-ADM ENV-ES ENV-EPS	810 704	13,587 192 3,460	14, 397 192 4, 164	821 704	3,536	15,547 261 4,240	976 847	4,271	17,576 308 5,118
ENV-AES ENV-ECS	704	3,460	4,164	704	3,536	4,240	847	4, 271	5,118
ENV-FOR ENV-PC EXTERNAL AFFAI	106		10,041	117	10,929	11,046	129	12,021	12,150
EA-CIA CIDA IDRC	2,460 12,689	5,028 5,028 2,798 5,193	5,028 5,028 5,258 17,882	1,485 11,836	5,512 5,512 2,879 6,385	5,512 5,512 4,364 18,221	1,625	6,176	6,176 6,176 4,873 21,043
FIN-FEP		8,114 8,114	8,114 8,114			9,507 9,507		11,001 11,001	11,001 11,001
FISHERIES AND F&O F&O-FM INDIAN AFFAIRS	79 <b>0</b> 790	2,560 2,560	3,350 3,350	825 825	2,675 2,675	3,500 3,500	854 854	2,576 2,576	3,430 3,430
IAND IAN HEFHIKS IAND IAND-IIA IAND-NA INDUSTRY TRADE	1,123 260 863	2,546 1,428 1,118	3,669 1,688 1,981	1,254 267 987	2,665 1,438 1,227	3,919 1,705 2,214	1,319 286 1,033	3,071 1,526 1,545	4,390 1,812 2,578
ITC-TI ITC-TOUR ITC-GO	1,050 803 247	227 129 98	1,277 932 345	1,719 1,472 247	387 289 98	2,106 1,761 345	2,931 2,660 271	394 286 108	3,325 2,946 379

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
	Rs.D	RSA	TOTAL	R8.D	RSA	TOTAL	R&D	RSA	TOTAL
JUSTICE									
JUST JUST JUST-ADM JUST-CUIO	2,126	2,042	4,168	2,381 2,381	2,413	4,794	3,208 3,208	3,107	6,315
JUST-CUIO	2,120	1.329	1,329	2,301	1,552	1,552			2,100
CHRC		202	202		230	230			255
LRC LABOUR	1,729	599	2,328	1,777	845	2,622	2,166	1,136	3,302
LAB	468	2,757	3,225	603	3,210	3,813	662	3,529	4, 191
NATIONAL DEFENC		1 011	1 007	07E	1 121	1 700	731	1,253	1,984
NDEF MDEF-SER	616 616	1,011 1,011	1,627	675 675	1,121	1,796 1,796	731	1,253	1,984
ATIONAL HEALTH	AND WEL	FARE							
NHW ODM	8,679	6,713 3,877	15,392	8,792 1,635	7,655 4,805	16,447	9,320 1,660	8,363 5,610	17,683
NHW-ADM NHW-HSS	1,410	2,349	9,618	7,157	2,319	9,476		2,223	9,883
NHW-MS					Ann 440 year				
NHM-HP			487		531	531		530	530
NHW-IS MRC		40 1	401						
NATIONAL REVENL							1 554	1 5 10	0.170
NREV TAY	1,489	2,679	4, 168 4, 168	1,436 1,436	3,821	5,257	1,584	4,548 4,548	6,132 6,132
NREV-TAX POST OFFICE	1,409	2,010	47 100	1,436	3,021	JICOL	11,004	47.540	07 102
PO	243	389	632	258	300	558	573	574	1,147
PRIVY COUNCIL	1 700	6	1,802	549		549	549	ma que lant	549
PCCOL	1,796	859	859		975	975		1,172	1,172
ECC	7,325	1,516	8,841	7,019	1,011	8,030	6,440	952	7,392
PUBLIC WORKS						ene dalli insi			
PW-PTS									
CMHC	2,314	5,673	7,987	2,212	5,920	8,132	2,433	6,879	9,312
NCC	638	495	1,133	661	430	1,091	1,331	582	1,913
REGIONAL ECONON REE	790	638	1,428	800	845	1,645	972	1,434	2,406
SCIENCE AND TEC	HNOLOGY				0.545	0.548		0.000	0.000
ST		5,692	5,692		6,543	6,543		9,699	9,699
NRC-SIR						Mar. 600 (000)			
NRC-STI									
NSERC	1,245	1,236	2,481	1,494	1,511	3,005	1,830	1,712	3,542
SECRETARY OF SI	TATE								
SECS	4,995	2,790	7,785	5,831 480	3,362 373	9,193 853	5,899 509	3,532 307	9,431
SECS-OL SECS-ES	246	71 129	317 129	400	155	155		177	177
SECS-TRA	2,660	2,189	4,849	2,854	2,371	5,225	3,107		5,333
SECS-CIT	2,089	401	2,490 212	2,497	463	2,960	2,283	822	3,105
PSC Solicitor gener	212 RAL		212						
SGEN	1,771	714	2,485	1,725	966	2,691	1,957	795	2,752
SGEN-ADM	1,771	714	2,485	1,725	966	2,691	1,957	795	2,752
RCMP SUPPLY AND SERV	LICES								
SS	323	540	863	341	557	898	345	562	907
SS-SUPP	323	540	863	341 4,284	557 143,987	898 148,271	345 6,463		907
STCAN TRANSPORT	3,499	118,657	122, 156	4,204	143,307	140/211	0,403	223,400	6201000
TPT	216	325	541	170	1,240	1,410	170	1,220	1,398
TPT-ADM	90	120	210	100	135	235	100	135	235
TPT-MAR TPT-AIR	24	205	229		1,105	1,105		1,085	1,085
TPT-SUR	102		102	70		70	70		78
CTC TREACURY ROOPR	1,095	1,623	2,718	1,060	1,396	2,456	1,095	1,650	2,745
TREASURY BOARD	113	9,933	10,046	113	11,673	11,786	113	12,814	12,927
TB-ADM	113	9,933	10,046	113	11,673	11,786	113	12,814	12,927
		306,587	397,265	93,702	353,190	446, 892	107,080	460,318	567,398

## FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

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DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL		INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE AGR	1,050	491	1,541		1,250	607	1,857	1,650	621	2,271
AGR-ADM AGR-DEV AGR-RI	1,050	491	491 1,050		1,250	607	607 1,250	1,650	583 38	583 1,688
AGR-CGC CDC CLFB COMMUNICATION	72	479 7	479 79		 ?7	600 42	600 119	91	1,000 45	1,000 136
COMM COMM-COMM COMM-AC CBC CBC CBTC	3,451 3,062 389 1,597 477	2,268 2,075 193 1,751 65	5,719 5,137 582 3,348 542		4,028 3,695 333 1,647 666	1,946 1,616 330 2,007 110	5,974 5,311 663 3,654 776	519	2,557 2,297 260 2,221 160	7,033 6,274 759 3,974 679
NMUS PA SSHRC	14,712 26,094 9,320 3,615	18 5,889 32,966	14,730 31,983 9,320 36,581		17,156 26,972 9,900 4,001	23 5,273 38,640	17,179 32,245 9,900 42,641	21,536 29,545 12,009 4,376	36 5,753 41,225	21,572 35,298 12,009 45,601
CONSUMER AND CCA-ADM CCA-CON CCA-CON CCA-CICP ECONOMIC DEVE:	1,506 409 617 121 359	1,069 24 546 211 288	2,575 433 1,163 332 647		1,741 489 749 112 391	1,038 690 160 188	2,779 489 1,439 272 579	1,771 584 810  377	1,191 65 741  385	2,962 649 1,551 762
	1,400	200	1,600		1,656	150	1,806	2,049	150	2,199
EI EI-ADM CEIC ENERGY MINES (	8,372 8,372 4,280	831 831 1,520	9,203 9,203 5,800		8,638 8,638 4,573	891 891 3,185	9,529 9,529 7,758	9,161 9,161 4,995	889 889 3,376	10,050 10,050 8,371
EMR EMR-ENER EMR-MES AECB	3,406 1,065 2,341	2,168 400 1,768	5,574 1,465 4,109		2,599 1,350 1,249	2,143 550 1,593	4,742 1,900 2,842	1,376	1,966 600 1,366	4,812 2,070 2,742
AECL NEB	445	ana ana mu	445		465	Anne Adda Harr	465	518	1998 899 1888	518
ENVIRONMENT ENV ENV-ADM ENV-ES ENV-EPS	13,848 192 3,780	549 	14, 397 192 4, 164		14,983 261 3,858	564 382	261 4,240	16,915 308 4,657	461	17,576 308 5,118
ENV-AES ENV-ECS	3,780	384	4, 164		3,858	382	4,240	4,657	461	5,118
ENV-FOR ENV-PC EXTERNAL AFFA	9,876	165	10,041		10,864	182	11,046	11,950	200	12,150
EA-CIA CIDA IDRC	3,618 3,618 1,470 8,062	1,410 1,410 3,788 9,820	5,028 5,028 5,258 17,882		3,900 3,900 1,517 8,991	1,612 1,612 2,847 9,230	5,512 5,512 4,364 18,221	4,414 4,414 1,749 10,403	1,762 1,762 3,124 10,640	6,176 6,176 4,873 21,043
F INANCE F IN F IN-FEP	8,114 8,114		8,114 8,114		9,507 9,507		9,507 9,507	11,001 11,001		11,001 11,001
FISHERIES AND F&O F&O-FM INDIAN AFFAIRS	3,050 3,050	300 300	3,350 3,350		3,200 3,200	300 300	3,500 3,500	3,130 3,130	300 300	3,430 3,430
IAND IAND IAND-IIA IAND-NA INDUSTRY TRADI	1,544 100 1,444	2,125 1,588 537	3,669 1,688 1,981		1,671 105 1,566	2,248 1,600 648	3,919 1,705 2,214	1,804 112 1,692	2,586 1,700 886	4,390 1,812 2,578
ITC ITC-TI ITC-TOUR ITC-GO	466 277 189	811 655 156	1,277 932 345		478 289 189	1,628 1,472 156	2,106 1,761 345	529 321 208	2,796 2,625 171	3,325 2,946 379

#### FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

#### BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

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DEPARTMENT OR AGENCY	INTRA- MURHL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE JUST JUST-ADM JUST-CUIO CHRC LRC LODOUR	2,242 913 1,329 202 1,863	1,926 1,926  465	4, 168 2, 839 1, 329 202 2, 328	2,747 1,195 1,552 230 1,962	2,047 2,047  660	4,794 3,242 1,552 230 2,622	3,629 1,529 2,100 255 2,434	2,686 2,686  868	6,315 4,215 2,100 255 3,302
LABOUR LAB	3,015	210	3,225	3,446	367	3,813	3,790	401	4, 191
NATIONAL DEFEN NDEF NDEF-SER NATIONAL HEALT	1,540	87 87	1,627 1,627	1,671 1,671	125 125	1,796 1,796	1,821 1,821	163 163	1,984 1,984
NHW NHW-ADM NHW-HSS NHW-MS	5,698 4,217 994	9, 694 1, 070 8, 624	15,392 5,287 9,618	6,845 4,870 1,444	9,602 1,570 8,032	16,447 6,440 9,476	7,011 5,200 1,281	10,672 2,070 8,602	17,683 7,270 9,883
NHW-HP NHW-IS MRC	487	ana, dahe sille www.whit. 2001	487	531	pan sink <u>1.00</u>	531	000 mm mm	4445 Brill (1446)	530
NATIONAL REVEN NREV NREV-TAX POST OFFICE	4, 168 4, 168 4, 168		4,168 4,168	5,257 5,257	800 900 cms	5,257 5,257	6, 132 6, 132		6, 132 6, 132
PO PRIVY COUNCIL	566	66	632	484	74	558	797	350	1,147
PC COL ECC	6 859 6,952	1,796	1,802 859 8,841	975 7,497	549 533	549 975 <b>8</b> ,030	1,172 6,902	549 490	549 1,172 7,392
PUBLIC WORKS PW PW-PTS		au 60 50			hite open anna 1940 Metri anna	1000 1000 1000	and you and		prog band quar
CMHC NCC REGIONAL ECONO	4,728 1,133 DMIC EXPAN	3,259	7,987 1,133	5,640 1,091	2,492	8,132 1,091	6,204 1,913	3,108	9,312 1,913
REE SCIENCE AND TH	759	669	1,428	748	897	1,645	912	1,494	2,406
ST NRC	5,156	536	5, 692	5,973	570	6,543	7,410	2,289	9,699
NRC-SIR NRC-STI NSERC									
SC SECRETARY OF S SECS	2,113 STATE 4,317	368 3,468	2,481 7,785	2,545 4,758	460 4, 435	3,005 9,193	2,934 4,888	608 4,543	3,542 9, <b>43</b> 1
SECS-OL SECS-ES SECS-TRA SECS-CIT	4, 511 36 129 4, 083 69	281 766 2,421	317 129 4,849 2,490	4,738 71 155 4,459 73	782 766 2,887	853 155 5,225 2,960	4,000 91 177 4,543 77	725 790 3, 028	5,431 816 177 5,333 3,105
PSC SOLICITOR GENE	212		212					07020	07100
SGEN SGEN-ADM RCMP	873 873	1,612	2,485 2,485	1,114 1,114 	1,577 1,577	2,691 2,691	870 870	1,882	2,752
SUPPLY AND SEN SS SS-SUPP STCAN	RVICES 5 122, 125	858 858 31	863 863 122, 156	6 6 148,240	892 892 31	898 898 148, 271	7 7 229,919	900 900 34	907 907 229,953
TRANSPORT TPT TPT-ADM	427 120	114 90	541 210	1,310 135	100 100	1,410	1,290 135	100 100	1,390 235
TPT-MAR TPT-AIR TPT-SUR CTC	205 102 2,234	24 484	229 102 2,718	1,105 70 1,940	  516	1,105 70 2,456	1,085 70 2,261	484	1,085 70 2,745
TREASURY BOARI TB TB-ADM	9,933 9,933	113 113	10,046 10,046	11,673 11,673	113 113	11,786 11,786	12,814 12,814	113 113	12,927 12,927
TOTAL	301,095	96,170	397,265	345,768	101,124	446,892	452,605	114, 793	567,398

## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES INTRAMURAL, BY DEPARTMENT OR AGENCY

DEPARTMENT		1979-80	nen ana ana san san ana ta' sa' sa ana ana	nin nini mar aka ana ana ana ana ana sin	1980-81	anna man anna anna anna anna anna anna		1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE AGR AGR-RI CLFB COMMUNICATIONS	50 50 55	1,000 1,000 17	1,050 1,050 72	50 50 59	1,200 1,200 18	1,250 1,250 77	50 70	1.600 1.600 21	1,650 1,650 91
COMM COMM-COMM COMM-AC	477 1,425 1,869	3, 451 3, 062 389 1, 597 14, 712 24, 669 9, 320 1, 746 0 FF 0 IPS	3,451 3,062 389 1,597 477 14,712 26,094 9,320 3,615	666 1,640 2,042	4,028 3,695 333 1,647 17,156 25,332 9,900 1,959	4,028 3,695 333 1,647 666 17,156 26,972 9,900 4,001	519 3,410 2,253	4, 476 3, 977 499 1, 753 21, 536 26, 135 12, 009 2, 123	4,476 3,977 499 1,753 519 21,536 29,545 12,089 4,376
CCA CCA-ADM CCA-CON CCA-COR	1,065 617 121 327	441 489  32	1,506 409 617 121 359	1,217 749 112 356	524 489  35	1,741 489 749 112 391	1,152 810  342	619 584  35	1,771 584 810 0 377
ED ED EMPLOYMENT & II		1,400	1,400	alian adian kanan	1,656	1,656	gan and mo.	2,049	2,049
EI-ADM CEIC	1,231	7,141 7,141 4,280	8,372 8,372 4,280	1,465 1,465 	7,173 7,173 4,573	8,638 8,638 4,573	1,560 1,560 	7,601 7,601 4,995	9,161 9,161 4,995
EMR-ENER EMR-MES NEB	109 109 	5 3,297 1,065 2,232 445	3,406 1,065 2,341 445	  53	2,546 1,350 1,196 465	2,599 1,350 1,249 465	58  58	2,788 1,470 1,318 518	2,846 1,470 1,376 518
ENVIBONMENT ENV-ADM ENV-ES ENV-ECS ENV-PC	(657 657 657	13, 191 192 3, 123 3, 123 9, 876	13,848 192 3,780 3,780 9,876	656 656 656	14,327 261 3,202 3,202 10,864	14,983 261 3,858 3,858 10,864	792 792 792 792	16,123 308 3,865 3,865 11,950	16,915 308 4,657 4,657 11,950
EXTERNAL AFFAIL EA EA-CIA CIDA IDRC FINANCE	330 4,064	3,618 3,618 1,140 3,998	3,618 3,618 1,470 8,062	260 3,908	3,900 3,900 1,257 5,083	3,900 3,900 1,517 8,991	285 4, 576	4,414 4,414 1,464 5,827	4,414 4,414 1,749 10,403
FIN-FEP		8.114 8.114	8,114 8,114	alitik kuda urupy Alitik kilos	9,507 9,507	9,507 9,507	which same which	11,001 11,001	11,001 11,001
FISHERIES AND ( F&O-FM	790 790	2,260 2,260	3,050 3,050	825 825	2,375 2,375	3,200 3,200	854 854	2,276	3, 130 3, 130
INDIAN AFFAIRS IAND IAND-IIA IAND-NA INDUSTRY TRADE	561 25 536	983 75 908	MENT 1,544 100 1,444	548 25 523	1,123 80 1,043	1,671 105 1,566	596 27 569	1,2 <mark>08</mark> 85 1,123	1,804 112 1,692
ITC-TI ITC-TOUR	353 262 91	113 15 98	466 277 189	360 269 91	118 20 98	478 289 189	396 296 100	133 25 108	529 321 208

INTRAMURAL, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
IUSTICE									
JUST	586	1,656	2,242	833	1,914	2,747	1,048	2,581	3,629
JUST-ADM	586	327	913	833	362	1,195	1,048	481	1,529
JUST-CUIO	and div and	1,329	1,329	alan any test	1,552	1,552 230		2,100	2,100
CHRC	1,552	202	202	1,588	230	230		255	255
LRC LABOUR	1,005	211	1,863	1,088	374	1,962	1,975	459	2,434
LAB	354	2,661	3,015	411	3,035	3,446	452	3.338	3,790
ATIONAL DEFEN	CE					0, 110		0,000	0,,,,,,
NDEF	616	924	1,540	675	996	1,671	731	1,090	1,821
NDEF-SER	616	924	1,540	675	996	1,671	731	1,090	1,821
NATIONAL HEALT	2,047	.FARE 3,651	5,698	2,353	4,492	6,845	2,418	4,593	7,011
NHW-ADM	1,410	2,807	4,217	1,635	3,235	4,870	1,660	3,540	5,200
NHW-HSS	637	357	994	718	726	1,444	758	523	1,281
NHW-IS		487	487		531	531		530	530
NATIONAL REVEN									
NREV	1,489	2,679	4,168	1,436	3,821	5,257	1,584	4,548	6,132
NREV-TAX POST OFFICE	1,489	2,679	4,168	1,436	3,821	5,257	1,584	4, 548	6,132
PO	180	386	566	210	274	484	223	574	797
PRIVY COUNCIL	100	000	000	LIO		-0-	LLQ	014	101
PC	die das ain	6	6	-		0			0
COL		859	859		975	975		1,172	1, 172
ECC	6,108	844	6,952	6,486	1,011	7,497	5,950	952	6,902
PUBLIC WORKS	1 007	3,645	4 200	1 449	4 000	5 0 40	1 504	4.000	0.004
CMHC	1,083	495	4,728	1,440	4,200	5,640	1,584	4,620	6,204
REGIONAL ECONO			1,155	001	430	1,091	1,001	202	1,513
REE	759		759	748		748	912		912
SCIENCE AND TE									
ST		5,156	5, 156		5,973	5,973		7,410	7,410
SC SECRETARY OF S	877	1,236	2,113	1,034	1,511	2,545	1,222	1,712	2,934
SECS		2,133	4,317	2,378	2,380	4,758	2,607	2,281	4,888
SECS-OL		36	36	27010	71	71	27001	2,201	91
SECS-ES		129	129		155	155		177	177
SECS-TRA	2,184	1,899	4,083	2,378	2,081	4,459	2,607	1,936	4, 543
SECS-CIT		69	69		73	73	And the state	77	77
PSC SOLICITOR GENE	212		212		dan die	0			0
SGEN	KHL 323	550	873	484	710	1,114	322	548	870
SGEN-ADM	323	550	873	404	710	1,114	322	548	870
SUPPLY AND SER		000	0.0	404	110	1 / A A -T	OLL	040	010
SS	22	3	5	2	4	6	3	4	7
SS-SUPP	2		5	2	4	6	3	4	7
STCAN	3,499	118,626	122,125	4,284	<b>143,95</b> 6	148,240	6,463	223,456	229,919
TRANSPORT TPT	102	325	427	70	1,240	1,310	70	1 228	1 20.0
TPT-ADM	102	120	120	- EU	1,240	1,310	70	1,220	1,290
TPT-AIR	bier	205	205	4.00 Table 1.00	1,105	1, 105		1,085	1,085
TPT-SUR	102		102	70		70	70		70
CTC	729	1,505	2,234	640	1,300	1,940	729	1,532	2,261
TREASURY BOARD		0.000						10	
TB-ADM		9,933 9,933	9,933		11,673	11,673		12,814	12,814
ID-MUCI		3,933	9,933		11,673	11,673		12,814	12,814
TOTAL	36,376	264,719	301,095	39,402	306,366	345,768	46, 195	406,410	452,605

#### HUMAN SCIENCES

## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

INDUSTRY, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT DR		1979-80			1980-81		1981-82		
AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
FICULTURE									
IGR		491	491	-	607	607		583	58:
AGR-DEV	100 000 000	491	491 44	alan kan dan	607 200	607 200		583 300	583
LFB			0		5	5		5	Ę
MMUNICATIONS	1,491	669	2,160	752	1,104	1,856	1,474	965	2,43
COMM-COMM	1,491	529 140	2,020	752	809 295	1,561 295	1,474	755 210	2,22
BrC		1,751	1,751		2,007	2,007		2,221	2,22
RTC	16	290	16 290	15	290	15 290	dian and terr	318	31
NSUMER AND CO	ORPORATE A	AFFAIRS 95	325	204	90	294	134	135	26
CCA-CON	97		97	124		124	134		13
OCA-COR OCA-CICP	133	95	133			80 90		135	13
ONOMIC DEVELO	OPMENT		55		50	20		100	10
IPLOYMENT & II	MMIGRATION 58	770	828	7	718	725	7	878	88
EI-ADM	58	770	828	7	718	725	7	878	88
EIC ERGY MINES &			1,520	6	3,128	3,128		3,315	3,31
EMR-ENER		408 400	408 400		550 550	550 550		600 600	60
EMR-MES		400	400	mark other spins		0			
I I RONMENT	53	298	351	57	298	355	66	362	42
ENV-ES	28	298 297	325	29	297	326	35	361	39
ENV-ECS ENV-PC	28	297	325	29	297 I	326 29	35	361	39
TERNAL AFFAII									
HANCE ISHERIES AND (	OCEANS								
DIAN AFFAIRS		RN DEVELOP	<b>TENT</b> 384	74	286	360	79	482	48
IAND-IIA	67	117	184	74	122	196	79	130	203
IAND-NA DUSTRY TRADE	AND COMME	200 ERCE	200		164	164		272	273
TC	236	11	247	206	12	218	216	13	223
ITC-TI ITC-TOUR	80 156	1	91 156	50 156	12	62 156	45 17 1	13	5
RC		245	245		400	400		575	57
ABOUR	30	10	40	45	75	120	49	82	13
TIONAL DEFEN				40			40		
NDEF-SER		52 52	52		72	72 72		85 85	8
TIONAL HEALT		FARE					770		
HW NHW-HSS	1	79 79	80 80	200	45	245 245	370 370		37
TIONAL REVEN	UE								
DGT OFFICE PO	48		48	33	23	56	345	00 wa na	34
RIMY COUNCIL	412	645	1,057	296		296	300	100 MM (MA	30
JBLIC WORKS					100			570	
IMHC EGIONAL ECONDI	898 MIC EXPANS	641 510N	1,539	719	482	1,201	791	530	1,32
REE	31	302	333	52	650	702	60	1,245	1,30
CIENCE AND TE	CHNULUGY 72		72	30		30	77	<u> </u>	7
ECRETARY OF S		249	276		302	302		550	55
SECS-OF		4	4		302	302		200	20
SECS-CIT	27 Pot	245	272		the same with	0		350	35
GEN	418	61	479	342	66	408	378	57	43
SGEN-ADM	418 VICES	61	479	342	66	408	378	57	43
3.5	288	503	791	290	553	843	291	558	84
SS-SUPP BANSPORT	288	503	791	290	553	843	291	558	84
TPT	90 90		90 90	100		100	100		10
TPT-ADM TTC	199	118	317	100 231	96	100 327	100 199	118	10
REASURY BOARD									
TAL	4,665	9,569	14,234	3,653	12,059	15,712	4,936	13,897	18,83

\*\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

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UNIVERSITY BY DEPARTMENT OR AGENCY

(# THOUSANDS)

ALERCY         RAD         PSA         TOTAL         RAD         TOTAL         <	NPARTMENT		1979-80			1980-81			1981-82	
AB2		R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
ABS-R1         0        0        250       17         ABS-R1        5        50        500       17       100       117        200        200        200        200        200        200        200        200        200        200        200        200        200        200        200        200        200        200        200        400        400        400        400        100       100         100       100        100       100	STOULTURE									
LC        0        100       100       100        300       300         CHT CORTIONS         50       50        90         CHT CORT         32       32        300       300        90         CHT          300       300        400         CHT					also any any	survey and a state				25
1.17       1.7       1.7       1.7       1.7       2.0          1.17       1.7       2.0       2.0       1.7       1.7       1.7       2.0       1.7         1.17       1.7       2.0       2.0       1.0       2.0       2.0       1.0       1.0       1.0       1.0         1.17       1.7       1.0       2.5       2.5       1.0       4.0       1.0	MGR-RI									25
Markener		5			17			20		300
Control		0		0	* 1		A.1	20		
Commence 17 17 17 25 25 40 The 222 20 - 40 38 49 40 40 SPEC 19.444 9.669 28.113 22.015 10.649 33.464 24.700 11.675 35.1 Charles A BESCORCES 6 8 78 100 Charles A BESCORCES 100 100 Charles A BESCORCES 100 100 El 8 100 100 100 El 100 100 100 El 100 100 100 El 100 100 100 100 1000 1000 El 100 100 100 100 1000 El 100 100 100 100 1000 El 100 100 100 El 100 El 100 -					Aller A.M. 4700			100 ere ant		98
The		upon adar Bile			the and this					58
SHR       19.424       8.689       29.113       22.815       10.649       33.464       24.780       11.075       25.1         CALCON       20       6       20       25        75       27       100         CALCON       20       6       20       25        75       27       100         CALCON       20       6        8       9        100         CALCON       21        6        8       9        100         CALCON       20        10        10       10         100         LONDET & INFLOOM        10        10        20        20        20        20        20        20        20        20       100        20       10        20       10       100        20       100       100        100       100        100       100        100       100        100       100					40			40		46
HAUMER AND CORPORTE AFFAIRS CON-COR 21 26 55 6 73 27 CON-COR 21 26 79 25 18 8 180 CON-COR 21 6 6 8 8 180 CON-COR 21 6 8 8 180 CON-COR 21 6 8 8 180 CON-COR 21 8 18 18 20 CON-COR 21 19 10 19 CON-COR 21 10 19 10 19 CON-COR 21 10 19 118 20 CON-COR 21 125 125 125 125 125 125 125 CON-COR 21 125 125 125 125 125 125 125 CON-COR 21 128 115 128 115 20 CON-COR 27 128 15 128 160 180 108 180 108 1 180 108 180 108 180 108 1 180 108 180 108 1 180 108 180 108 1 180 108 180 108 1 180 108 180 108 1 180 108 1 180 108 1 180 108 1 180 108 1 180 108 1 180 108 1 180 108 1 180 108 1 180 108 1 180 108 1 180 108 1										424
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				28,113	22,815	10,649	33,464	24,780	11,075	35,855
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ÇA	91				8			100	127
CCA-CICP        6       6        8       8        100         CONCLEPTENT & INFLIGENTENT ON        0        10       10         20         ELONDAT & INFLIGENT & INFLIGENT ON        0        10       10         20         ELONDAT & INFLICE        0        10       10        20         ELONDAT       125        125       125        20        20         ELONDAT       15       4       19       15       4       19       15       4         ENV-ES       15       200       15       4       19       15       4         ENV-ES       1300       1.300        1.480        1.620       1.4         ENC-IN       8       8        100        100        100       100			which party weeks						and the set	27
Chorder E         Child Barton         0          18         18           20           End           0          18         18          20           End          0          125         125          20           End         15         5         20         15         4         19         15         4           Env-Ecs         15         5         20         15         4         19         15         4           Env-Ecs         15         5         20         15         4         19         15         4           Env-Ecs         15         5         20         15         4         19         15         4           Env-Es         138         1.380          1.480         1.480         1.480          1.620         1.1           Env          108         100          100					40	8				100
1         10       10       10         10         10       10        12       125        12       125        20         10       10       10       10       10       10       10        20         11       15       5       20       15       4       19       15       4         11       15       5       20       15       4       19       15       4         11       15       5       20       15       4       19       15       4         11       125       125        1.480       1.480        1.622       1.1         11       12       130       1.586       350        1.680       1.480       1.480        1.622	CHOMIC DEVELO			0		0	0		100	100
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		MIGRATION	4			10	1.0			_
EIC       Image: Second High High Second High High High Second High Second									alle ann alle	E
ENCY MINES & RESOURCES         L25          L26         L27         L27 <thl26< th="">         L27         <thl27< th=""></thl27<></thl26<>	EIC							were asked they		28
THR-MES 125 125 125 125 125 125 125 125 125 125 125 125 125 125 125 126 125 126 125 126 125 126 125 126 125 126 125 126 125 126 125 126 125 126 125 126 125 126 125 126 125 126 1				100	4.000					4.000
LIROWERNT         IS         5         20         IS         4         19         IS         4           ENV-ES         IS         5         20         IS         4         19         IS         4           ENV-ES         IS         5         20         IS         4         19         IS         4           ENV-ES         IS         5         20         IS         4         19         IS         4           ENV-ES         IS         5         20         IS         4         19         IS         4           ENV-ES         IS         5         20         IS         4         19         IS         4           ENC         IS         5         20         IS         4         19         IS         4           ENC         IS         5         20         IS         4         19         IS         4           ENC         IS         100         IS         IS         1480         IS         160         IS         160         IS         160         IS         160         IS         160         IS         160         IS         200         IS										125
HV       15       5       20       15       4       19       15       4         ENV-ECS       15       5       20       15       4       19       15       4         ENV-ECS       15       5       20       15       4       19       15       4         ENV-ECS       15       5       20       15       4       19       15       4         ENV-ECS       15       5       20       15       4       19       15       4         ENC        1200       1200        1400       1400        1600       100        160       100        100       100        100       100        100       100        100       100        100       100        100       100        100       100        100       100        100       100        100       100        100       100        100       100        100       100        100       100        100       100       <	I I RONMENT						160			
TH-PLCS       15       5       20       15       4       19       15       4         EH-C1R        1.300       1.300        1.4800       1.480        1.620       1.480         TIP       275       1.313       1.598       359       1.445       1.795       400       1.589       1.620         TO       PM        100       180        180       1.620       1.620         TO       PM        100       180        180       180        180         TO       PM        100       180        180       180        180         TO       PM        100       180        180       180        180         TO       PM       260       10       220       220       244       231       255       313       315       44       44       44       44       44       44       44       44       44       44       44       44       41       41       41       41       41       41       41       41 <th< td=""><td>JIV</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>19</td></th<>	JIV									19
TERNEL AFFAIRS EA-CIA										19
A        1,300       1,300        1,400       1,400        1,620       1,400         TIA       275       1,313       1,588       350       1,445       1,795       400       1,560       1,400         TIA       275       1,313       1,588       350       1,445       1,795       400       1,569       1,400         TIA       275       1,313       1,588       350       1,445       1,795       400       1,569       1,400         MENCE        100       100        100       100        100         MENCE       NORTHEN       DEFICIOMENT       100        100       100        100         HAD       260       10       226       104       20       204       104       25       1         HAD       260       10       226       1137       41       1,178       2,276       62       2,         Cost       11407       5       412       1,137       41       1,178       2,276       62       2,         Gost       25       55        53       53			5	20	1.0		15	1.5	4	10
11A       275       1.313       1.588       350       1.445       1.795       400       1.589       1.         AHACE        8       8        108       100        108         ANALES       ANALES       100        108       100        108         ANALES       100        108       100        108       100        108         ANALES       ANALES       200       248       231       25       1       110       110       200       125       1         ANALES       100       200       10       270       228       20       248       231       25       1       1       110       141        108       100       110       110       110       110       2276       62       2.       111 <td< td=""><td>A free</td><td></td><td>1,300</td><td></td><td>and and the</td><td></td><td></td><td></td><td></td><td>1,628</td></td<>	A free		1,300		and and the					1,628
DEC        8       8         8       200       25         MENCE HERIES AND OCENNS       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100<										1,628
NHARE         IDB         IDB <thidb< th=""> <thidb< td="" th<=""><td></td><td></td><td></td><td></td><td>900</td><td></td><td></td><td></td><td></td><td>1,989</td></thidb<></thidb<>					900					1,989
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				0			0	200	20	the ter 's
FAG-FM        100        100       100        100         HAD       260       10       270       228       20       248       231       25       1         HND       260       10       270       228       20       248       231       25       1         HND-HA       216       10       226       184       20       204       184       25       1         HND-HA       216       10       226       184       20       204       184       25       1         HND-HA       216       10       226       137       41       1.177       2.276       62       2.5         STICE       407       5       412       1.137       41       1.178       2.276       62       2.5         UST        25       25        41       41        49         JUST        25       25        53       53        70       137       49         LIC       NOR       84       20       104       125       45       170       137       49		DCEANS	100	100						
Dian AFFAIRS & NORTHERN DEVELOPMENT         HD       260       10       270       228       20       248       231       25       1         IAND-LIA       44        44       44        44       47          IAND-HA       216       10       226       184       20       204       184        44       47        44       47        44       47        44       47        44       47        44       47        44       47        41       11.178       2.276       62       2.       17C       1407       5       412       1.137       41       1.178       2.276       62       2.       2.       53       53       170       137       49       10010       137       49       10010       101010 <td></td> <td>and both and</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>100</td>		and both and								100
AHD       260       10       270       228       20       248       231       25       11         1AND-HA       216       10       226       184       20       204       184       25       11         1AND-HA       216       10       226       184       20       204       184       25       11         1AND-HA       216       10       226       184       20       204       184       25       11         1UST       407       5       412       1.137       41       1.178       2.276       62       2.         STIC-TI       407       5       412       1.137       41       1.178       2.276       62       2.         UST        25       25        41       41        48         BUB       84       20       184       125       45       170       137       49         DEF        35       35        53       53        78         TIONEL REATH AND MELFARE       1002       4.927       3.967       837       4.804       3.805       964       4. <td></td> <td>&amp; NORTHER</td> <td></td> <td></td> <td></td> <td>100</td> <td>100</td> <td></td> <td>100</td> <td>100</td>		& NORTHER				100	100		100	100
IAND-NA       216       10       226       184       20       204       184       25       10         USTRY TRADE AND COMMERCE       412       1,137       41       1,176       2,276       62       2,         STIC-       407       5       412       1,137       41       1,178       2,276       62       2,         STIC-       407       5       412       1,137       41       1,178       2,276       62       2,         STIC-       407       5       412       1,137       41       41        48         JUST-ADM        25       25        41       41        48         JUST-ADM        25       35        53       53        78         TIONAL DEFENCE        35       35        53       53        78         TIONAL HER TH AND WELFARE        35       35        53       537        78         TIONAL REVENUE       3.925       1.002       4.927       3.967       837       4.804       3.805       904       4.18 <td>AND</td> <td>260</td> <td>10</td> <td>270</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>256</td>	AND	260	10	270						256
LUSTRY TRADE AND COMMERCE TC TADE AND COMMERCE TT CT 1 407 5 412 1.137 41 1.178 2.276 62 2. STTCE 407 5 412 1.137 41 1.178 2.276 62 2. UST 25 25 41 41 1 48 JUST - ADM 25 25 41 41 41 48 JUST - ADM 25 35 53 53 78 TICMAL DEFENCE 84 20 104 125 45 170 137 49 TICMAL DEFENCE 04 20 104 125 45 170 137 49 TICMAL DEFENCE 05 35 53 53 78 TICMAL HEALTH AND WELFARE HU 3.925 1.002 4.927 3.967 837 4.804 3.805 904 4. TICMAL REVENUE ST OFFICE 104 20 4.927 3.967 837 4.804 3.805 904 4. TICMAL REVENUE ST OFFICE 104 100 4.927 3.967 837 4.804 3.805 904 4. TICMAL REVENUE ST OFFICE 104 104 107 197 150 HLIC WORKS 20 636 656 2 595 597 2 954 904 4. TOKE ST OFFICE 104 104 104 104 104 104 104 104 104 104										47 209
TC       407       5       412       1,137       41       1,178       2,276       62       2.         STICE       407       5       412       1,137       41       1,178       2,276       62       2.         STICE       407       5       412       1,137       41       1,178       2,276       62       2.         STICE       407       5       412       1,137       41       1,178       2,276       62       2.         STICE       41       41        48       41       41        48         BUR       84       20       1084       125       45       170       137       49         DIF        35       35        53       53        78         TIONAL BEFENCE        35       35        53       53        78         TIONAL BEFENCE        35       35        53       53        78         HILL       3.925       1.002       4.927       3.967       837       4.804       3.805       964       4. <th< td=""><td></td><td></td><td></td><td>660</td><td>164</td><td>20</td><td>204</td><td>184</td><td>60</td><td>20:</td></th<>				660	164	20	204	184	60	20:
STICE       25       25        41       41        48         BOUR       84       28       184       125       45       178       137       49         HB       BUR       84       28       184       125       45       178       137       49         HDEF        35       35        53       53        78         HDEF        35       35        53       53        78         HIML       HEALTH AND WELFARE        35       53        78         HIML       3.925       1.002       4.927       3.967       837       4.804       3.805       904       4.         GT OFFICE        581       197        197       150          ILIC WORKS       581        581       197        197       150          ILIC WORKS       28       636       656       2       595       597       2       954          ILIC WORKS       28       -13       39       752       476	TC	407	5							2,338
UST        25       25        41       41        48         BOUR       B4       28       184       125       45       178       137       49         HB       B4       28       184       125       45       178       137       49         HEF        35       35        53       53        78         TIONAL HEALTH AND WELFARE       1.002       4.927       3.967       837       4.804       3.805       904       4.1         TIONAL REVENUE       3.925       1.002       4.927       3.967       837       4.804       3.805       904       4.1         TIONAL REVENUE       581        197       150        78         TIONAL REVENUE       581        595       597       2       954       4.1         STORKS       636       656       2       595       597       2       954       4.1         ENCE AND TECHNOLOGY        77       77        77       116          ENCESOL        227       476        4		407	5	412	1,137	41	1,178	2,276	62	2,338
JUST-ADM        25       25        41       41        48         MBOUR       B4       20       184       125       45       170       137       49         HAB       B4       20       184       125       45       170       137       49         HAB       BEEFER        35       35        53       53        78         HDEF-SER        35       35        53       53        78         HULH-HS1       3.925       1.002       4.927       3.967       837       4.804       3.805       984       4.3         HUL HELTH HAND WELFARE        591        581       197        197       150          HUL HELTH KEVENUE       20       636       656       2       595       597       2       954       4.3         ILV COUNCIL       501        581       197        77       116          ILV COUNCIL       20       22         80       55       5       5		that are ann	25	25	som mer site	41	41		48	48
AB       84       20       104       125       45       170       137       49         IDEF       35       35        53       53        78         IDEF-SER        3925       1.002       4.927       3.967       837       4.804       3.805       904       4.3         INHA-HSS       3.925       1.002       4.927       3.967       837       4.804       3.805       904       4.3         INHA-HSS       3.925       1.002       4.927       3.967       837       4.804       3.805       904       4.3         INC       S01        581       197        197       150 <td< td=""><td></td><td></td><td></td><td></td><td>And one off</td><td></td><td></td><td>and one show</td><td></td><td>48</td></td<>					And one off			and one show		48
IDEF        35       35        53       53        78         IDEF-SER        3925       1.002       4.927       3.967       837       4.804       3.805       904       4.3         GTOFFICE         197       150         197       150          IELOC       581        581       197        197       150          IBLIC CONOMIC EXPANSION        77       77        77       116          ICS       713       39       752       476        476       500       55       55       55         SECS				18.1	1.00	455			10	
IDEF        35       35        53       53       53        78         IDEF-SER        35       35        53       53        78         IDEF-SER        35       35        53       53        78         IHL       3.925       1.002       4.927       3.967       837       4.804       3.805       904       4.917         IHL        581        587       4.804       3.805       904       4.917         INC       000101L       EVENUE        197       150        197       150          INC       581        581       197        197       150          INC       Selonal       636       656       2       595       597       2       954          IENCE       AND TECHNOLOGY        77       77        77       116          IECS       713       39       752       476        476       500       55       5600<			20	104	125	45	170	137	49	186
TIONAL HEALTH AND LELFARE         HH       3,925       1,002       4,927       3,967       837       4,804       3,805       904       4.         HH        3,967       837       4,804       3,805       904       4.         ST OFFICE        581       197        197       158          INC       20       636       656       2       595       597       2       954         INC       20       636       656       2       595       597       2       954         INC       20       636       656       2       595       597       2       954         INC       20       636       656       2       595       597       2       954         INC       20       636       656       2       595       597       2       954         INC       20       636       656       2       595       597       2       954         INC       20       77       77       77       77       116          INC       713       39       752       476			35	35	Bell and use	53	53		78	78
HH       3.925       1.002       4.927       3.967       837       4.804       3.805       904       4.         IHHH-HSS       3.925       1.002       4.927       3.967       837       4.804       3.805       904       4.         GT OFFICE       IVY COUNCIL       GT       GT       581       197        197       150          INC       S81        581       197        197       150          INC       S81        581       197        197       150          INC       20       636       656       2       595       597       2       954       3.967         INC       20       636       656       2       595       597       2       954       3.957         INC       20       636       656       2       595       597       2       954       3.957         INC       77        77       77        77       116          INC       713       39       752       476        0        55 <td></td> <td></td> <td></td> <td>35</td> <td>Here advertised</td> <td>53</td> <td>53</td> <td></td> <td>78</td> <td>78</td>				35	Here advertised	53	53		78	78
NHW-HSS       3.925       1.002       4.927       3.967       837       4.804       3.805       904       4.1         ST OFFICE       TVY COUNCIL       581        581       197        197       150          BLIC WORKS       28       636       656       2       595       597       2       954       954       954       954       954       955       957       2       954       956       956       957       2       954       956       956       956       957       2       954       956       956       956       957       2       954       956       956       957       2       954       956       956       957       2       954       956       956       957       2       954       956       957       2       954       956       957       2       954       956       957       957       957       957       957       957       957       957       957       957       957       957       957       957       957       957       957       957       955       957       955       957       955       955       955       955 <td></td> <td></td> <td></td> <td>1 957</td> <td>7 967</td> <td>077</td> <td>1 004</td> <td>2 005</td> <td>90.4</td> <td>4.78</td>				1 957	7 967	077	1 004	2 005	90.4	4.78
TIONAL REPENUE         GT OFFICE         IVY COUNCIL         IC       581          IBLIC WORKS         MHC       28       636       656       2       595       597       2       954         ICONAL ECONOMIC EXPANSION         IENCE AND TECHNOLOGY       77        77       77        77       116          CRETARY OF STATE       713       39       752       476        476       500       55		3,925								4,70
ILVY COUNCIL       581       197        197       150          INL C MORKS       28       636       656       2       595       597       2       954       954         INHC       28       636       656       2       595       597       2       954       954         INHC       28       636       656       2       595       597       2       954       954         INHC       28       636       656       2       595       597       2       954       954         ILENCE AND TECHNOLOGY       77        77       77       116          CSECS-OL        22       22        9	TIONAL REVEN									
IC       581       197        197       150          IBLIC WORKS       636       636       656       2       595       597       2       954         ICONAL ECONOMIC EXPANSION       IENCE AND TECHNOLOGY       77        77       77        77       116          IENCE ON TECHNOLOGY       22       22         476       500       55       55       55       55       55       56       560        55       500        55       55       55       55       55       55       55       55       55       55       55       55       55       55       55										
IBLIC WORKS       20       636       656       2       595       597       2       954         MHC       20       636       656       2       595       597       2       954         SIONAL ECONOMIC EXPANSION       77        77       77        77       116          CRETARY OF STATE       77        77       77        77       116          CRETARY OF STATE       713       39       752       476        476       500       55         SECS-OL        22       22        0        9         SECS-CIT       237       17       254        0        55         SEEN       759       23       782       760        760       999          SEEN-DAM       759       23       782       760        760       999          SS-SUPP        23       23         0           HANSPORT       142        164       142		581		581	197		197	150	000 mill ens	150
Science and technology         10004L ECONOMIC EXPANSION         10054L ECONOMIC EXPAnsion         100557         100557     <							101			100
1ENCE AND TECHNOLOGY       77       77       77       77       77       116          CRETARY OF STATE       22       22       476        476       500       55       55         SECS-OL        22       22        0        116          SECS-OL        22       22        0        116          SECS-CIT       237       17       254        0        55       500        55         VLICITOR GENERAL       759       23       782       760        760       999        55         VLICITOR GENERAL       759       23       782       760        760       999        55         VLICITOR SERVICES       23       23        760       999         55         SS-SUPP        23       23        0				656	2	595	597	2	954	950
77       77       77       77       77       116          CRETARY OF STATE       25       713       39       752       476        476       580       55       55         SECS-OL        22       22        0        9         55         SECS-CIT       237       17       254        0        55			STON							
ECS       713       39       752       476        476       500       55         SECS-OL        22       22        0        0        10         SECS-CIT       237       17       254        0        55         LICITOR GENERAL       759       23       782       760        760       999          SEN-ADM       759       23       782       760        760       999          SEN-ADM       759       23       782       760        760       999          SEN-ADM       759       23       782       760        760       999          SEN-ICES        23       23        760           SS-SUPP        23       23        0           HNSPORT        23       23        0           HNSPORT        142        164       142	ić i	77		77	77		77	116	when other space	110
SECS-OL        22       22        0         9         SECS-TRA       476       476        476       500        55         SECS-CIT       237       17       254        0        55         LICITOR GENERAL       759       23       782       760        760       999          SECN-DM       759       23       782       760        760       999          SECNPM       23       23       782       760        760       999          SECS-UPP       23       23       782       760        760       999          SS-SUPP        23       23        0           ANSPORT       23       23         0           TC       142        164       142        EASURY BOARD					4		100-			
SECS-TRA       476        476       476        476       500        55         SECS-CIT       237       17       254        0        55         VEIN       759       23       782       760        760       999          SEN-ADM       55       23       782       760        760       999          SESSUPP        23       23         0           SS-SUPP        23       23         0           ANSPORT        142       164        164       142          EASURY BOARD        164       142       <			39	22						55
SECS-CIT       237       17       254        0        55         LICITOR GENERAL       759       23       782       760        760       999          SEN-ADM       759       23       782       760        760       999          SEN-ADM       759       23       782       760        760       999          SPLY AND SERVICES       23       23        760        760       999          SS-SUPP        23       23        0         0         ANSPORT        23       23        0         0          ANSPORT       142        164       142        EASURY BOARD        164       142										50
GEN     759     23     782     760      760     999        DEN-ADM     759     23     782     760      760     999        IPPLY AND SERVICES     23     23     760      760     999        SS-SUPP      23     23      0         ANSPORT     142      164     142        EASURY BOARD     I64      164     142	SECS-CIT	237	17			atte ann ann			55	5
PSEN-ADM         759         23         782         760          760         999            IPPLY AND SERVICES          23         23          0           55-SUPP          0           0            142          142          164         142          EASURY BOARD          164         142 </td <td></td> <td></td> <td>27</td> <td>200</td> <td>760</td> <td></td> <td>760</td> <td>000</td> <td></td> <td>99</td>			27	200	760		760	000		99
IPPLY AND SERVICES     23     23      0         SS-SUPP      23     23      0         ANSPORT     23     23      0          TC     142      164     142        EASURY BOARD      164     142										993
SS-SUPP          23         23          0           Image: second	IPPLY AND SER							000		
ANSPORT TC 142 142 164 164 142 EASURY BOARD			23	23						
TC 142 142 164 164 142 EASURY BOARD		on the life	23	23	and the same		Ø			
EASURY BOARD	TC	142		142	164		164	1.42	-	14
	EASURY BOARD									
TAL 26,903 13,580 40,483 30,560 15,892 46,452 33,965 17,555 51,	701	26,903	13,580	40,483	30,560	15 000	AC ACO	77 0.05		51,528

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

(\$ THOUSANDS)

PRESERV         RED	DEPARTMENT		1979-80	No per une sep ann hai 700 ann agu cho bha i		1980-81	ه الله وجود الله وعلم وي الله الله عليه وعلم وي و		1981-82	
AGB	OR AGENCY		RSA	TOTAL			TOTAL	R&D	RSA	TOTAL
AGB			ill till get av tilt den ute als ann tak t		inte pina 245 alte inte ana sua man mo mo voo m		a and all a shaka and a sour a sour a sour a shaka (sha kika	and and any one of the set of the set of the set	an and and and and and and and and the first	in the set to all the set of the
PRCP-RI			West Willia addre	Ø	Table Adds Same		Ø		13	13
Construction         Construction<	AGR-RI				the min ten			970 555 555		
COMP-COMM			568	368		366	300	the same time	400	400
COMM-AC          36         36          10         10         10          10         11         11         14          14         15          15           CCA         11          11         14          14         15          15           CCA+COM         11          11         14          14         15          15           ECOMMENT & INMICENTION         200         200          100         100          150         150           EL-AM          0          100         100          0          0         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150         150<				45	Table Sales also					
MISS	COMM-AC			36			10			10
SSRC										
Consumer and CORPORTS AFFAIRS         1         14          14         15          15           COM-CON         11          11         14          14         15          15           EMPLOYNEM         200          150         150          150         150           EMPLOYNEM         200          100         100         100          150         150           EMPLOYNEM         2000          100         100          150         150           EMPLOWENT         100         100          0          100         100          0           ENCLOWENT         100         600          600          370         425         800         505           ENCLOWENT         1033         1.123         133         1.0330         1.122         100         100         1000         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100	SSHEC	dies was von	2,291							
CCA-CON         11          11         14          14         15          158           ECCMONIC DEVELOPMENT         200         200          150         150          150         150           ELOWMENT & INMIGENTION          0          150         150          150         150           ELOWMENT & INMIGENTION          0          160         100          0           ENERCY MINES & RESOURCES          0          370          0          0           ENTERNAL THEFAIRS & NORTHERN DEVELOPMENT         184         194          370         425         80         585           FIGHENC & G08          0         100         1023         123         123         123         123         123         123         123         123         123         123         123         123         123         123         123         123         123         120         1100         100         100         100         200         120         1202         132         100         120			PFFAIRS							
Economic Durelowment         200         200          158         150          158         150           Employment & INMIGRATION          0          100         100          0          0           EVELOWMENT          0          100         100          0          0           EXTERNAL AFFAIRS          0          0          0          0          0           FINE CAND OCEAHS          0          0          0          0          0         0         100         1.032									when each adapt	
EVELOWERT & INVIGRATION II	ECONOMIC DEVELO	DPMENT								
EI        0        100       100       100       100        0         ENERGY MINES & PESOURCES       0        100       100       100       100        0         ENERGY MINES & PESOURCES       0        100       100        0        0         ENTROWHENT       600        600       370        370       425       80       505         FINANCE       600        600       1.030       1.123       193       1.0301       1.223       193       1.0301       1.223       100       1.022       100       100       200         INDIAN TRADE AND COMMENCE       0       100       100       100       100       200       1.000       100       200       1.000       100       200       1.000       100       200       1.000       100       200       1.000       100       200       1.000       100       200       1.000       100       200       1.000       1.000       100       100       100       100       100       100       100       1.000       100       100       100				200		158	150		150	150
ENERGY MINES & BESOURCES ENT ROWNENT EXTERNAL AFFAIRS CIDA EXTERNAL AFFAIRS CIDA EXTERNAL AFFAIRS CIDA TROC GBB TROC CIDA TROC GBB TROC CIDA TROC GBB TROC CIDA TROC GBB TROC CIDA TROC GBB TROC TAND-MA TAND-TIA ST TB TB TROC TAND-TIA SGEN-ADM TO CIDA CIDA GBB TB	EI		and the own		man Table since			pline datase winter	time toke one	
EMULTRONMENT EXTERNAL AFFAIRS CIDA		RESOURCES	3	Ø	tinke and man	100	100	water mark marks		U
CIDR          184         194           0           0         565           FINANCE         FINANCE         FINANCE         570          370         425         500         505           FINANCE         FINANCE         5370         1.030         1.123         193         1.030         1.223         193         1.030         1.223         100         100         100         100         100         100         100         100         100         100         200           INTERV TRADE AND COMMERCE         0         100         100         100         100         100         100         200           INTERV TRADE AND COMMERCE         110C         100         100         100         200         100         100         200           JUST FOR         273         225         1.198         694         300         994         700         300         1.000           LABOUR          15         15          15         16          16           HATCHAL DEFENCE         1.924         641         2.565         2.432         674         3.1060	ENVIRONMENT		_							
IDEC         GOB          GOB         370          370         425         80         505           FINANCE         FISHER IES AND OCEANS         INDIAN AFPRISS & NOTHERN DEVELOPMENT         1030         1.123         193         1.030         1.123         193         1.030         1.123         100         1.030         1.123         100         1.030         1.123         100         1.000         100         100         200           IAUD-HA          0         100          100         100         100         200           IAUD-HA          0         100          100         100         100         200           INDUSTRY TRADE AND COMMERCE          100         100         100         200         100         200           INDUSTRY TRADE AND COMMERCE          15         15          425         300         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080         1.080			104	194			Ø		Aug. 200. 201.	Ø
F15HERIES AND OCENHS       1,038       1,123       193       1,038       1,223       208       1,192       1,392         IAND       93       1,038       1,123       193       1,030       1,223       100       1,092       1,392       1,192 <t< td=""><td>IDRC</td><td>608</td><td></td><td></td><td>370</td><td></td><td></td><td>425</td><td>80</td><td></td></t<>	IDRC	608			370			425	80	
INDIAN         AFFAIRS & NORTHERN DEVELOPMENT           IAND         93         1.036         1.123         193         1.030         1.223         100         1.952         1.192           IAND-IIA         93         1.036         1.123         193         1.030         1.223         100         1.952         1.192           IAND-NA         93         1.036         1.123         93         1.030         1.223         100         1.952         1.192           IAND-NA         93         1.036         1.123         93         1.030         1.223         100         1.952         1.192           INDUSTRY TRADE AND COMMENCE         93         1.030         1.223         100         1.052         1.192           JUST         973         225         1.198         694         300         994         700         300         1.000           JUST         973         225         1.198         694         300         994         700         300         1.000           LABOUR         IANTONAL LEALTA AND WELFARE         1.5         15          15         16          16           NATIONAL REVENUE         2.161         804 </td <td></td> <td>YCEANC</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		YCEANC								
IAND       93       1.036       1.123       933       1.038       1.223       100       1.092       1.192       1.392       1.192       1.092       1.192       1.192       1.092       1.192       1.092       1.192       1.092 </td <td>INDIAN AFFAIRS</td> <td>&amp; NORTHER</td> <td>RN DEVELOP</td> <td>MENT</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>	INDIAN AFFAIRS	& NORTHER	RN DEVELOP	MENT					1	
INDO-NA        100	IAND	93	1,030	1,123						
ITC       29       40       69       16       8       24       43        43         JUST       973       225       1,198       694       300       994       700       300       1,000         JUST-ADM       973       225       1,198       694       300       994       700       300       1,000         LABOUR        15       15        15       16        16         HATIONAL DEFENCE        15       15        15       16        16         NATIONAL LEALTH AND WELFARE       NHM-HAS       2.161       804       2.965       1.924       641       2.565       2.432       674       3.106         NHM-HAS       2.161       804       2.965       1.924       641       2.565       2.432       674       3.106         NHM-HAS       2.161       804       2.965       1.924       641       2.565       2.432       674       3.106         NHM-HAS       2.161       804       2.965       1.924       641       2.565       2.432       674       3.106         PIEL       1796	IAND-NA	also adds you								
ITC-TI       29       40       69       16       8       24       43        43         JUST       973       225       1,198       694       300       994       700       300       1,000         JUST-ADM       973       225       1,198       694       300       994       700       300       1,000         LABOUR        15       15        15       16        16         NATIONAL HEALTH AND WELFARE       WHA       2,161       804       2,965       1,924       641       2,565       2,432       674       3,196         NATIONAL REPENCE       2,161       804       2,965       1,924       641       2,565       2,432       674       3,196         NATIONAL REPENUE       POST OFFICE       PRIVY COUNCIL       POST OFFICE       FORM       19        19       15        15         PUBLIC WORKS       19       388       398       2       321       323       2       353       355         SEC CETARLY OF STATE       28        25       40        40       2,564       2,564       2,564       2,56				69	16	0	24	43	and one one	43
JUST       973       225       1,198       694       300       994       700       300       1,000         LABOUR        15       15       15       15        15       16        16         LAB        15       15       15       15        15       16        16         MATIONAL HEALTH AND WELFARE       804       2.965       1.924       641       2.565       2.432       674       3.106         MHW       2.161       804       2.965       1.924       641       2.565       2.432       674       3.106         MHW       2.161       804       2.965       1.924       641       2.565       2.432       674       3.106         PRIVY CONKGIL       PRUV       PRIVY CONKGIL       PRUV       PRUV       136       10        18       15        15        15         PUBLIC WORKS       136        136       10        18       15        15       549       549        15       15         SECSCOVIC       136        28	ITC-TI									
JUST-ADM         973         225         1,198         694         300         994         700         300         1,000           LABOUR          15         15         15          15         16          16           NATIONAL DEFENCE         NHL         2,161         804         2,965         1,924         641         2,565         2,432         674         3,106           NATIONAL RELENUE         POST OFFICE         PRIVY COUNCIL         PREVOUV COUNCIL         PR		973	225	1.198	694	300	994	799	300	1.000
LAB        15       15       15       15        15       16        16         NHTIONAL DEFENCE       NHW       2.161       884       2.965       1.924       641       2.565       2.432       674       3.186         NHW       2.161       884       2.965       1.924       641       2.565       2.432       674       3.186         NHTIONAL REPENUE       FOST OFFICE       FOST OFFICE       641       2.565       2.432       674       3.186         PC       1.796        136       18        18       15        549       549        549         PC       1.796        136       18        18       15        15         PUBLIC MORKS       10       388       398       2       321       323       2       353       355         SECS-OL       28        28       25        25       48        48         SECS-OL       286        2.864       2.499       140       2.549       2.924       349       2.965         S	JUST-ADM									
NATIONAL DEFENCE       NALLEFARE         NATIONAL HEALTH AND WELFARE       2,161       804       2,965       1,924       641       2,565       2,432       674       3,196         NHW       2,161       804       2,965       1,924       641       2,565       2,432       674       3,196         NHW       ATIONAL REVENUE       2,161       804       2,965       1,924       641       2,565       2,432       674       3,196         POST OFFICE       PRIVY COUNCIL       Property       136       10        10       15        15         PUBLIC WORKS       138       388       398       2       321       323       2       353       355         CEMC       18       388       398       2       321       323       2       353       355         SECENCE AND TECHNOLOGY       S       S        25       40        40         SECES-OL       286        286       2,464       480       -480       559       -569       569       569        569       569       569       569       569       569       569       569       5			15	15	15		15	16	the bar ore	16
NHW       2,161       804       2,965       1,924       641       2,565       2,432       674       3,196         NHW-HS       2,161       804       2,965       1,924       641       2,565       2,432       674       3,196         NHW-HS       2,161       804       2,965       1,924       641       2,565       2,432       674       3,196         Post ofFice       Presenter       136       10        10       15        549         Post ofFice       136       10        10       15        15         Public LC WORKS       10       388       398       2       321       323       2       353       355         REGIONAL ECONOMIC EXPANSION       28       25        25       40        40         SECRETARY OF STATE       28       25        25       400        40         SECS-OL       246        2,864       2,409       140       2,969       1,715       340       2,955         SOLICITOR GENERAL       37        37        0        10 <t< td=""><td>NATIONAL DEFENC</td><td></td><td></td><td>10</td><td>.0</td><td></td><td></td><td></td><td></td><td></td></t<>	NATIONAL DEFENC			10	.0					
NHA-HSS       2,161       804       2,965       1,924       641       2,565       2,432       674       3,106         NATIONAL REVENUE POST OFFICE PRIVY COUNCIL PC       1.796        1.796       549        549       549        549         PC       136        136       10        10       15        15         PUBLIC WORKS       18       388       398       2       321       323       2       353       355         REGIONAL ECONOMIC EXPANSION SCIENCE AND TECHNOLOGY       28        25       40        40         SECS-CIT       2.864        2.864       2.489       149       2.549       2.224       340       2.564         SECS-CIT       2.46        2.46       480        480       509        599         SOLICITOR GENERAL       37        2.664        2.969       1.715       340       2.955         SOLICITOR GENERAL       37        0         0        20         SSEN        0       19       <				2.965	1.924	641	2.565	2.432	674	3, 196
FOST OFFICE         PRIVY COUNCIL       PC       1.796       549        549       549        549         ECC       136        136       10        10       15        15         PUBLIC WORKS       10       388       398       2       321       323       2       353       355         CMHC       10       388       398       2       321       323       2       353       355         CMHC       10       388       398       2       321       323       2       355         Science and Technology       28        28       25        25       40        40         Secsent and technology       28       29       140       2,549       2,224       340       2,564         Secsent and	NHM-HSS	2,161								
PRIVY COUNCIL       PC       1.796        1.796       549        549       549        549         PC       136        136       10        10       15        15         PUBLIC WORKS       10       388       398       2       321       323       2       353       355         CMMC       10       388       398       2       321       323       2       353       355         SCIENCE AND TECHNOLOGY       28        25       40        40         SECS-0       2864        2864       2,409       140       2,549       2,224       340       2,569         SECS-0       2,664       2,409       140       2,069       1,715       340       2,055         Solicitore general       37        26        0        0         SGEN       37        37        0        0        20       S         SGEN-ADM       37        37        19       20        20       S		JE								
ECC       136        136       10        10       15        15         PUBLIC WORKS       18       388       398       2       321       323       2       353       355         CMMC       18       388       398       2       321       323       2       353       355         SCIENCE AND TECHNOLOGY       28        28       25        25       40        40         SECRETARY OF STATE       -       28       25        25       40        40         SECRETARY OF STATE       -       2864       2.409       140       2.549       2.224       340       2.564         SECS-OL       246        246       480        480       509        509	PRIVY COUNCIL	1.1								
PUBLIC WORKS CMMC       10       388       398       2       321       323       2       353       355         REGIONAL ECONOMIC EXPANSION SCIENCE AND TECHNOLOGY SC       28        28       25        25       40        40         SECPETARY OF STATE SECS-01       246        2.064       2.409       140       2.549       2.224       340       2.564         SECS-01       246        246       480        480       509        509         SECS-01       246        246       480        480       509        509         SOLICITOR GENERAL       37        140       2.069       1.715       340       2.055         SGEN       37        37        0        0        0       2.055         SUPPLY AND SERVICES        0       19        19       20        20         SS-SUPP        0       19        19       20        20         TRANSPORT        113									which same same	
REGIONAL ECONOMIC EXPANSION         SCIENCE AND TECHNOLOGY         SC       28        25       40        40         SECRETARY OF STATE         SECRETARY OF STATE       2,064        2,064       2,409       140       2,549       2,224       340       2,564         SECS-OL       246        246       480        480       509        509         SECS-CIT       1.818        1.818       1.929       140       2,069       1,715       340       2,055         SOLICITOR GENERAL       562N       37         0        0       2,055         SOLICITOR GENERAL       37         0        0        0       2,055         SUPPLY AND SERVICES       37        0       19        0        20       50         SS-SUPP        0       19        19       20        20         SS-SUPP        0       19        19       20        20         TRANSPOR	PUBLIC WORKS									
SCIENCE AND TECHNOLOGY SC         28         25          25         40          40           SECRETARY OF STATE SECS-0         2,064          2,064         2,409         140         2,549         2,224         340         2,564           SECS-01         246          246         480          480         509          509           SECS-01         246          246         480          480         509          509           SOLICITOR GENERAL          1,818         1,929         140         2,069         1,715         340         2,055           SOLICITOR GENERAL         37          37          0          0          0           SGEN-ADM         37          37          0          0          0          0          0          0          0          20          20          20          20          20          20				398	2	321	323	2	353	355
SECRETARY OF STATE         SECS-       2,064        2,064       2,409       140       2,549       2,224       340       2,564         SECS-OL       246        246       480        480       509        509         SECS-OL       246        1,818       1,929       140       2,069       1,715       340       2,055         SOLICITOR GENERAL       37        37        0         0         SGEN-ADM       37        37        0        0       0         SUPPLY AND SERVICES        0       19        19       20        20         SS-SUPP        0       19        19       20        20         SS-SUPP        0       19        19       20        20         SS-SUPP        0       19        19       20        20         TRANSPORT        113       113        113       113	SCIENCE AND TEC	HNOLOGY	51011							
SECS-       2,064        2,064       2,409       140       2,549       2,224       340       2,564         SECS-OL       246        246       480        480       509        509         SECS-CIT       1,818        1,818       1,929       140       2,069       1,715       340       2,055         SOLICITOR GENERAL       37        37        0        0        0         SGEN       37        37        0        0        0         SUPPLY AND SERVICES        0       19        19       20        20         SS        0       19        19       20        20         TRAN				28	25	on her and	25	40		40
SECS-CIT       1,818        1,818       1,929       140       2,069       1,715       340       2,055         SOLICITOR GENERAL       SGEN-ADM       37        37        0        0        0 <td>SEC<del>S</del></td> <td>2,064</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SEC <del>S</del>	2,064								
SOLICITOR GENERAL         SGEN       37        37        0        0       <										
SGEN-ADM       37        37        0        0        0       0        0       0        0       0        0       0        0       0        0       0        0       0        0       10        19       20        20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20	SOLICITOR GENER	RAL			17 020	140		17110	040	
SUPPLY AND SERVICES         SS        0       19        19       20        20         SS-SUPP        0       19        19       20        20         TRANSPORT        0       19        19       20        20         TREASURY BOARD        113       113        113       113        113         TB       113        113       113        113       113        113         TB-ADM       113        113       113        113       113        113						alles into another				
SS-SUPP          0         19          19         20          20           TRANSPORT         TREASURY BOARD         TTB         113          113         113         113         113          113	SUPPLY AND SERV									
TRANSPORT         TREASURY BOARD           TB         113          113         113          113           TB-ADM         113          113         113          113							19			
TB         113          113	TRANSPORT			0	10		10	20		
TB-ADM 113 113 113 113 113 113		113	Teld Mink and	112	112	Han fully year	113	1.173	400 -000 -040	113
TOTAL 8,096 6,118 14,214 6,388 5,804 12,192 6,829 6,457 13,286			and that one							
	TOTÁL	8, 896	6.118	14,214	6.388	5,804	12, 192	6,829	6,457	13,286
	the state and the same and the same and and and and and and a		the state and and state and state and						are than \$27 mer with some some some \$250 Mills	

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

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#### PROVINCIAL & MUNICIPAL GOVERNMENTS, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
AGRICULTURE									
COMMUNICATIONS NMUS CONSUMER AND C		3,842	3,842	No. do out	3,054	3,054	toris and date	3,353	3,353
CCA CCA-CON	16		16 16	20 20	Weds offer spec-	20 20	21	-	21
ECONOMIC DEVEL EMPLOYMENT & I	OPMENT MMIGRATI <b>C</b>	4							
EI-ADM ENERGY MINES &	PECOUPCES	4000 000 000	0	<b>3</b> 6 36		36 36			0
EME EME EMR-MES ENVIRONMENT			1,632 1,632	1,468 1,468	and the second	1,468 1,468	1,241	and gain with	1,241 1,241
ENV-ES	100 an 100	22	22 22		22	22		27	27
ENV-ECS EXTERNAL AFFAI FINANCE	RS	22	22		22	22	and shall be	27	27
FISHERIES AND INDIAN AFFAIRS		RN DEVELOP	MENT						
IAND IAND-NA INDUSTRY TRADE	AND COMM		0 0			0		25 25	25 25
JUSTICE	149		149	207		207	418	and upor line	418
JUST-ADM LABOUR NATIONAL DEFEN	149 CF		149	207		207	418		418
NATIONAL HEALT	H AND WELD	1,084	1,439	261	1,570	1,831	153	2,133	2,286
NHW-ADM NHW-HSS	355	1,070 14	1,070 369	261	1,570	1,570 261	153	2,070	2,070
NATIONAL REVEN POST OFFICE PRIVY COUNCIL	UE								
PUBLIC WORKS CMMC REGIONAL ECONO	25 MIC EXPAN	41 STON	66	11	1.777	11	12		12
REE SCIENCE AND TE	CHNOLOGY	336	336		195	195		189	189
SECRETARY OF S SECS SECS-CIT	TATE 7 7	and the second	7	and the add		Ø		Happe agene, mode	0
SOLICITOR GENE	RAL 93		93	192	40	232	228	40	268
SGEN-ADM SUPPLY AND SER TRANSPORT TREASURY BOARD		And	93	192	40	232	228	49	268
TOTAL	2,277	5,325	7,602	2,195	4,881	7,076	2,073	5,767	7,840

FOREIGN, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81		1981-82		
OR AGENCY	R8.D		TOTAL	R&D		TOTAL	R&D		TOTAL
GRICULTURE									
OMMUNICATION	S		1.5						
NLIB SSHRC		18 2,562	18 2,562		2,976	2,976		36 3,070	36 3,070
CCA	CORPORATE 1 43	AFFAIRS 4	47	85	AND 2004 1445	85	48		48
CCA-CON CCA-COR	36 7		36	45 40		45 40	48		48 E
CCA-CICP CONOMIC DEVE		4	4		With later and	Ø	give gap main		ē
MPLOYMENT &	IMMIGRATIO	И							
EI EI-ADM	3	with app with	33	20 20		20 20	4	tatio alla vite	4
CEIC NERGY MINES	RESOURCE		0	press program danse	39	39		41	41
EMR			33		And may over	Ø			6
EMR-MES NUIRONMENT		Party same area	0	alle tall yap	tab day tag	Ø	and the	And the other	6
XTERNAL AFFA EA	IRS	110	110		132	132		142	148
EA-CIA CIDA	1,855	110 161	110	875	132	132	940	142 195	142
IDEC	7,848	1,104	8,952	7,404	1,227	8.631	8,360	1,319	9,679
INANCE ISHERIES AND	OCEANS								
NDIAN AFFAIR NDUSTRY TRAD	5 & NORTHEI E AND COMMI	RN DEVELOP ERCE	MENT						
ITC-TI	25	10	35	The set	75 75	75 75		40	48
USTICE	20	10			10			10	10
ATIONAL DEFE	NĈE								
ATIONAL HEAL NHW	TH AND WELD 168	93	261	87	70	157	93	59	152
NHW-HSS ATIONAL REVE	168 NUE	93	261	87	70	157	93	59	152
OST OFFICE	15	3	18	15	3	18	5		5
RIVY COUNCIL		3			3				
ECC UBLIC WORKS	88	800 mg 444	88	30		30	25	allest the same	25
CMHC EGIONAL ECON	OMIC EXPANS	199 STON	199	No. No	180	180		266	266
CIENCE AND T	ECHNOLOGY		870		E70	E20		0.000	2 200
ST SC	1	536	536 1	6	570	570 6	5	2,289	2,289
ECRETARY OF OLICITOR GEN									
SGEN-ADM	24	Hall your state	24	man him were	allie falst space	0	were also also		E
UPPLY AND SE	RVICES	31			31	-		7.4	
STCAN RANSPORT	water signs thing	51	31		51	31		34	34
CTC REASURY BOAR	25 D	and Body and	25	25		25	25	Will lake and	25
	10,098	4,831	14,929	8,547	5,503	14,050	9,505	7,491	16,996

#### OTHER, BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

AGENCY F AGENCY F CDC CLFB COMMUNICATIONS COMM COMM-COMM CRTC NMUS CONSUMER AND CORF	67 2 	RSA	TOTAL 67	R¢.D	RSA	TOTAL	R&D	RSA	TOTAL
CDC CLFB COMMUNICATIONS COMM-COMM CRTC NMUS	5		67						
CDC CLFB COMMUNICATIONS COMM-COMM CRTC NMUS	5		67						
COMMUNICATIONS COMM COMM-COMM CRTC NMUS						0			0
COMM COMM-COMM CRTC NMUS			S	20		20	20	and sur-sur-	20
CRTC	12	14	14	-	14	14			Ø
NMUS		14	14	20	14	14	85		9 85
CONSUMER AND CORF	161	776	937	169	776	945	176	847	1,023
CCA	ORATE A	AFFAIRS 207	573	462	90	552	496	215	711
CCA-ADM	tim and one	24	24			Ø	-	65	65
CCA-CON CCA-CICP	366	183	366 183	462	90	462 90	496	150	496
ECONOMIC DEVELOP			200		00	00			
EMPLOYMENT & IMMI ENERGY MINES & RE	GRATIO								
ENVIRONMENT									
ENV-ES	85 4	71	156 17	93	75 11	168 15	103	84 14	187
ENV-ECS	4	13	17	4	11	15	5	14	19
ENV-PC EXTERNAL AFFAIRS	81	58	139	89	64	153	98	70	168
IDRC	169	83	252	154	75	229	153	78	231
FINANCE FISHERIES AND OCH	ANS								
F&O		200	200		200	200		200	200
F&O-FM INDIAN AFFAIRS &	NOPTHE	200 PN DEL/ELOPI	200		200	200		200	200
IAND	142	206	348	211	206	417	213	219	432
IAND-IIA IAND-NA	31 111	206	237	31 180	206	237 180	33	219	252
INDUSTRY TRADE AN		ERCE		*00			.00		
ITC ITC-TI		48 48	48 48		133 133	133 133		146 146	146
JUSTICE									
JUST-ADM	418	136 136	554 554	647 647	158 158	805 805	1,042	178	1,220
LRC	177	43	220	189	71	260	191	102	293
LABOUR LAB		51	51	7	55	62	8	60	68
NATIONAL DEFENCE									
NATIONAL HEALTH A	22	FARE	22			Ø	49		49
NHW-HSS	22		22 22	770 A.O. A.O.		õ	49		49
NATIONAL REVENUE POST OFFICE									
PRIVY COUNCIL									
ECC PUBLIC WORKS	100 ALC: 100	27	27			0			Ø
CMHC	278	123	401	38	142	180	42	156	198
REGIONAL ECONOMIC SCIENCE AND TECHN	J EXPAN: NOLOGY	510N							
SC	190		190	355	-	322	370	1000 0000 perce	370
SECRETARY OF STAT	I'E	369	369	568	548	1,108	568	306	874
SECS-OL		9	9	All and and	-	Ø		16	16
SECS-TRA SECS-CIT		290 70	290 70	568	290 250	290 818	568	290	290 563
SOLICITOR GENERAL	÷							150	
SGEN-ADM	117	80 80	197 197	27 27	150 150	177 177	30 30	150 150	180
SUPPLY AND SERVIC	CES						7.		
SS-SUPP	33 33	11	44 44	30 30	Well Man Anton	30 30	31		31
TRANSPORT									
TPT-AIR	24		24 24			0 0		and the data	0
TREASURY BOARD									
TOTAL	2,263	2,445	4,708	2,957	2,685	5,642	3,577	2,741	6,318

## FEDERAL EXPENDITURES ON RESEARCH AND DEVELOPMENT BY PERFORMER, 1979-1982

#### (\$ THOUSANDS)

DEDECOMED	1979-	80	1980-	81	1981-	82
PERFORMER	\$	*	\$	*	\$	*
INTRAMURAL	36,376	( 40.1)	39,402	( 42.1)	46, 195	( 43.1)
INDUSTRY	4, 665	( 5,1)	3,653	( 3.9)	4,936	( 4.6)
UNIVERSITIES	26,903	( 29.7)	30,560	( 32.6)	33,965	( 31.7)
NON-PROFIT INSTITUTIONS	8,096	( 8.9)	6,388	( 6.8)	6,829	( 6,4)
PROFINCIAL & MUNICIPAL	2,277	( 2.5)	2, 195	( 2.3)	2,073	( 1.9)
FOREIGN	10.098	C 11. D	8,547	( 9.1)	9,505	( 8.9)
OTHER CANADIAN	2,263	( 2.5)	2,957	(3,2)	3,577	( 3.3)
	999 ANN \$999 MAX MAX AND \$990 \$990 \$940 \$100 \$100 \$440 \$100 \$440 \$100 \$440 \$400 \$40				e disk disk disk som over som over som som som det	
TOTAL	9Ø,678	(100.0)	93,702	(100.0)	107,080	(100.0)
موت منه من	ant and man man the late and and the man and the same and the source and the source and	till ber mit bis bis an en bis me the		and one new nor - the birs and the ter	. Quel Quel ann ann mar ant ann ann bhu	-

BY PERFORMER, 1979-1982

#### (\$ THOUSANDS)

PERFORMER	1979-	80	1980-	-81	1981-82		
FERFORTIER	\$	*	\$	%	\$	%	
INTRAMURAL	264,719	(86.3)	306,366	( 86.7)	406,410	( 88.3)	
INDUSTRY	9,569	( 3.1)	12,059	( 3.4)	13,897	( 3.0)	
UN IVERS ITIES	13,580	( 4.4)	15, 892	( 4.5)	17,555	( 3.8)	
NON-PROFIT INSTITUTIONS	6,118	( 2.0)	5,804	( 1.6)	6,457	( 1.4)	
PROPINCIAL 8: MUNICIPAL	5,325	(-1.7)	4,881	( 1.4)	5,767	( 1,3)	
FOREIGN	4,831	( 1.6)	5,503	( 1.6)	7,491	( 1.6)	
OTHER CANADIAN	2,445	( 0.8)	2,685	( 0.8)	2,741	( 0.6)	
			* ** ** ** ** ** ** ** ** ** **	n magn menn film space spen glenn space menn film space			
TOTAL	306,587	(100.0)	353, 190	(100.0)	460,318	(100.0)	

## FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-		1979-80		a data data man gay aya tang may data ang ang ma	1980-81	5 100 007 008 408 000 000 000 000 000 008 008 00		1981-82	
DEPARTMENT OR AGENCY	INTEA- MURAL	FXTRA-		INTRA- MURAL	EXTRA-		INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE	EQ	and the set of the set of the set of the	E 0		COULTREE AND AND AND AND AND AND AND AND		, dala uppe bille sono sono nano sono mun sono dibil bille		
AGR-ADM	50	which datase in the	50	50	datare titade datare	50	50	and this same	50
AGR-DEV AGR-RI	www.titute.www.	ware were used	50	50	www.inite inite	50	50		
AGR-CGC CDC		67			piper setter, when	****		shid blue year	
CLFB COMMUNICATIONS		7	67 62	59	37	96	70	40	110
COMM COMM-COMM COMM-AC	atha aka aya gata ana aga gata ana aga	1,491 1,491	1,491 1,491 	tiller (dille solar) filme solar aven vers solar	752 752	752 752		1,474 1,474	1,474
CBC CRTC NFB_	477	65	542	666	110	776	519	160	679
NLIB NMUS PA	1,425	161	1,586	1,640	169	1,809	 3,410	176	3,586
SSHRC	1,869	19,424	21,293	2,042	22,815	24,857	2,253	24,780	27,033
CONSUMER AND C CCA CCA-ADM	1,065	HFFH1R5 757	1,822	1,217	850	2,067	1,152	741	1,893
CCA-CON CCA-COR CCA-CICP	617 121 327	546 211	1,163 332 327	749 112 356		1,439 272 356	810 342	741	1,551
ECONOMIC DEVEL	LOFMENT	Add. 804 1717	unity milds miles		alas della later	-	block halost deter-	and show halfs	man back with
EMPLOYMENT & 1 EI EI-ADM	IMMIGRATIO 1,231 1,231	N 61 61	1,292	1,465 1,465	63 63	1,528 1,528	1,560 1,560	11 11	1,571
CEIC						and you have been have	and here one		
ENERGY MINES & EMR	109	5 1,760	1,869	53	1,593	1,646	58	1,366	1,424
EMR-ENER EMR-MES AECB	109	1,760	1,869	53	1,593	1,646	58	1,366	1,424
AECL	÷			400 400 440	failed www.unac	Infra			
NEB ENVIRONMENT		alter tilde verv	man insi ina	data ana erer	mm thit name		Initial waves wear		mand wrone error
ENV-ADM	657	153	810	656	165	821	792	184	976
ENV-ES ENV-EPS	657	47	704	656	48	704	792	55	847
ENV-AES ENV-ECS	657	47	704	656		704	792		847
ENV-FOR ENV-PC		106	106	WHEN HAVE AND	117	117		129	129
EXTERNAL AFFA:	1R5			600 000 ver			57 apr ma		and state that
EA-CIA CIDA	330	2,130	2,460	260	1,225	1,485	285	1,340	1,625
IDRC FINANCE FIN	4,064	8,625	12,689	3,908	7,928	11,836	4,576	9,138	13,714
FIN-FEP FISHERIES AND		Ann		www.falls.man	tilds war ann				
F&O F&O-FM INDIAN AFFAIRS	790 790	RN DEVELOP	790 790	825 825	Nacional Ant	825 825	854 854	Adde once appro-	854 854
IAND IAND-IIA IAND-NA	561 25 536	562 235 327	1, 123 260 863	548 25 523	706 242 464	1,254 267 987	596 27 569	723 259 464	1,319 286 1,033
INDUSTRY TRADE ITC-TI ITC-TI ITC-TOUR ITC-GO	262 91	697 541 156	1,050 803 247	360 269 91	1,359 1,203 156	1,719 1,472 247	396 296 100	2,535 2,364 171	2,931 2,660 271

#### FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RESEARCH AND DEVELOPMENT

BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

		1979-80			1980-81			1981-82	
DEPARTMENT OP AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE									
JUST JUST-ADM	586 586	1,540	2,126	833	1,548	2,381	1,048	2,160 2,160	3,208
JUST-CUIO									
HRC 190	1,552	177	1,729	1,588	189	1,777	1,975	191	2,166
LABOUR									662
LHB HATIONAL DEFE	354 NCE	114	468	411	192	603	452	210	002
NDEF NDEF-SER	616 616		616 616	675 675		675 675	731 731		731
HTIONAL HEAL	TH AND WEL	FARE							
HHM-ADM	2,047	6,632	8,679 1,410	2,353	6,439	8,792 1,635	2,418	6,902	9,320
HHW-HSS	637	6,632	7,269	718	6,439	7,157	758	6,902	7,660
HHH-MS			where the states						
HHH-IS									
HEC NAL REVE	NUE								
FPEV	1,489		1,489	1,436		1,436	1,584		1,584
NREV-TAX	1,489		1,489	1,436		1,436	1,584		1,584
P.u	180	63	243	210	48	258	223	350	573
FEIPY COUNCIL		1,796	1,796		549	549		549	549
E CL REC	6,108	1,217	7,325	6, 486	533	7,019	5,950	490	6,440
PUBLIC WORKS	0,100	1) = 1 (	11950	0,400	000	1,015	3,536	400	0,440
Pid-PTS									
CHIHC	1,083	1,231	2,314	1,440	772	2,212	1,584	849	2,433
PEGIONAL ECON	638 OMIC EXPON	ISTON	638	661	This data dawn	661	1,331		1,331
REE	759	31	790	748	52	800	912	60	972
SCIENCE AND T	ECHNOLOGY			yan mili sur-		anno denno succió	The set of		
HRC		with such some						100 mil - 10	10.0 AND 10.0
HEC-SIR HEC-STI				and one of	and the set.				
ERC									
SECRETARY OF	STATE	368	1,245	1,034	460	1,494	1,222	608	1,830
SECS	2,184	2,811	4,995	2,378	3,453	5,831	2,607	3,292	5,899
SECS-OL SECS-ES		246	246		480	480		509	509
ECS-TRA	2,184	476	2,660	2,378	476	2,854	2,607	500	3,107
SECS-CIT PSC	212	2,089	2,089	and and ever	2,491	2:49f		2,203	2,203
SOLICITOR GEN	ERAL 323	1,448	1,771	404	1,321	1,725	322	1,635	1,957
SGEN-ADM	323	1,448	1.771	404	1,321	1.725	322	1,635	1,957
SUPPLY AND SE	RUICES	units fields some	anno Wally shock						
SS	2	321	323	2	339	341	3	342	345
STCAN	3,499	321	323	2 4, 284	339	341 4,284	6,463	342	345 6,463
THENSPORT					100			108	
LFT-ADM	102	114 90	216 90	70	100	170 100	70	100	170 100
TPT-MAR									
TPT-AIR TPT-SUR	102	24	24	70		70	70		70
mo	729	366	1,095	640	420	1,060	729	366	1,095
TREASURY BOAR		113 113	113 113		1 13 1 13	113 113		113	113
D-HNI.I									
TOTAL	36,376	54,302	90,678	39,402	54,300	93,702	46,195	60,885	107,080

## FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN INDUSTRY BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT		79-80	19	80-81		81-82
AGENCY		CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
AGRICULTURE	and the state was been been and	and and any out one and one and one and one or or			the last and are per per up and are	
AGR				where many sums		
AGR-ADM					PR0 1007 000	prope share wants.
AGR-DEV		and were and	and this may	disc and new		
AGR-RI AGR-CGC		ARE ARE WED	the distance of the state		alls way and	And And Shirt
CDC			Name And Anna			
CLFB			The line way		data MET data	
COMMUNICATIO						
COMM	1,491	mu dia con	752	No and	1,474	
COMM-COMM COMM-AC	1,491	are are des	752		1,474	
CBC				the dis the		
CRTC	3	13		15		
NFB					dan't dinay kuto	man man over
NLIB	Mater Aug 1010					
NMUS				-		-
PA		which diving where		499.103.000		mat the site
SSHRC				Web take with		
CONSUMER AND	CORFORA			0.0.4		
CCA CCA-ADM		230		204	-	134
CCA-CON		97		124	and here our	134
CCA-COR		133		80		134
CCA-CICP					-	Matt some some
ECONOMIC DEVI	ELOPMENT		and take und			
ED EMPLOYMENT &	IMMIGRA			and and and	ma un dis	
EI		58		7		7
EI-ADM		58		7	-	7
CEIC						
ENERGY MINES	& RESOU	RCES				
EMR		and him offer			the obtained	
EMR-ENER				010 010 mm	white from down	and here the
EMR-MES				office pages speen		
AECB		ability does dealer		and have have	10.00 Million 10.00	ALC: 10. 10.
AECL				which does not		
NEB ENVIRONMENT	out this data			alles and blue		and she are
ENV	allies debus adds	53		57		66
ENV-ADM	Andre rappa verde					
ENV-ES	-	28		29		35
ENV-EPS			wheet came works	679 oct 449	Note where while	
ENV-AES	shock uppy which	more query sense	Salar Salar we're			
ENV-ECS	-	28		29	and total auto	35
ENV-FOR		where have more	ARR True and	449 dia 44		
ENV-PC	NTRO.	25		28		31
EXTERNAL AFF	AIRS					
EA-CIA				and the state		0.0 0.0 0.0
CIDA		the line line	and prop. picks	(b)(k		
IDRC	Burley dama and	warm when more			make uping made	
FINANCE						
FIN	-	also also more				
FIN-FEP				Non-service	and the second	
FISHERIES ANI	OCEANS					
F&O						
F&O-FM	C a MAN	THEFTAL APPLIES OF				
INDIAN AFFAIR	RS & NOR		FRENI	17 4		70
IAND IAND-IIA		67 67	and an and	74 74		79 79
IAND-NA		10				
INDUSTRY TRAI	E AND O	OMMERCE				
ITC	50	186		206		216
ITC-TI	50	30		50		45
ITC-TOUR		156	-	156	anne adde from	171
ITC-GO					NEW Ada Ada	

## FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN INDUSTRY

## BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT		79-80		80-81		81-82
OR AGENCY		CONTRACTS		CONTRACTS	GRANTS	CONTRACTS
JUSTICE						
JUST	umo nau aun			from boot with		
JUST-ADM						-
JUST-CUIO						
CHRC	max one take					
LABOUR	ante dem dem		and deep and	dalah oran oran		
LAB NATIONAL DEFI	ENCE	30	35	10	38	11
NDEF						
NDEF-SER						
NATIONAL HEAL	LIH AND I	WELFARE		200		770
NHW NHW-ADM		1		200		370
NHW-HSS		1		200		370
NHW-MS						
NHW-HP						
NHW-IS						
MRC						
NATIONAL REVE						
NREV	646- 0707 VIIII	war and all			only only your	quill fille daug
NREV-TAX						
POST OFFICE		48		33		345
PRIVY COUNCIL		40		00		240
PC				÷	their gap little	
COL						
ECC		412		296		300
PUBLIC WORKS						
PW	÷					
PW-PTS						
CMHC	47	851	12	707	13	778
NCC REGIONAL ECON					-0.0 -0.0 074	
REE	TOTIC EA	31		52		60
	FECHNOLO			0L		00
ST					and a star way	
NRC		which there are no				
NRC-SIR						
NRC-STI		two our and				
NSERC						
SC SECRETORY OF	STATE	72		30	data tanà atau	77
SECRETARY OF	STHIE 27					-
SECS-OL						
SECS-ES						
SECS-TRA						
SECS-CIT	27	and this was			*** ***	
PSC				diffe form fields		
SOLICITOR GEN		44.0				
SGEN	Anny 1995 Anny	418		342		378
SGEN-ADM RCMP		418		342		378
SUPPLY AND SE						
SS		288		290	9700 9700 MAR	291
SS-SUPP		288		290		291
STCAN						
TRANSPORT						
TPT		90		100		100
TPT-ADM	and with the	90		100		100
TPT-MAR						
TPT-AIR TPT-SUR						
CTC		199		231		199
TREASURY BOAR	an C	100		201		100
TB	1 dar			with size also		
TB-ADM						
TOTO	1 010	7.0.47		2.054		
TOTAL	1,618	3,047	799	2,854	1,525	3,411

## FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY. DEPARTMENT OR AGENCY, 1979-1982

#### (\$ THOUSANDS)

DEPARTMENT	 19	79-80	19	80-81	19	81~82
OR AGENCY	GRANTS	CONTRACTS	GRANTS	CONTRACTS	GRANTS	CONTRACTS
AGRICUL TURE				and that new same and same and this base pany and the		and and only and and one and and and first
AGR		part day who	patra antes atras.	whit can beer	saltade fasterer Startere	
AGR-ADM	ann ann shit	AAA 3000 3000	4440 YOV 4440		ALC 2010 2010	man famil side
AGR-DEV	forder water ander	Bare were serve		and also first		ma ma tast
AGR-RI AGR-CGC	and and the					and the same
CDC						
CLFB		5		17		20
COMMUNICATIO	NS	0		A 1		20
COMM	ability works three	alast these thirty		mit mit wo		
COMM-COMM		wany data front		and Map mus	agen MMA sand	unte fitted minu-
COMM-AC						and the base
CBC	33	4	75	and man our		
CRTC NFB				and your serve	ل ۲ 	which shole more
NLIB				and prop they		
NMUS		Num and datas	and \$100 units		ability among anone	
PA					Table and that	
SSHRC	14,637		17,010		18,375	and the link
CONSUMER AND	CORFORA	TE AFFAIRS				
CCA	www.enas.dob	102		79		42
CCA-ADM	and the state	new years when		Serve Ann. Were	and the factor	and shift and
CCA-CON		31		39		42
CCA-COR		71	man max max	40	man man man	
CCA-CICP	DI ODMENIT					ann ann ann
ECONOMIC DEV	EL OPMEN I					they block first
ED EMPLOYMENT &	IMMIGRA	TION				
ÉI	11:0:10KH					
EI-ADM	max max dime	uma delare unas	may third some	which same areas	ware ware being	
CEIC		and then over	-	ana ana sisi	ana 100 100	ways have many
ENERGY MINES	& RESOU	RCES				
EMR	125	1000 Miles	125	and must down	125	while more many
EMR-ENER				seen over gent		ma ma test
EMR-MES	125	the set in	125		125	where where where
AECB		and employee	ann teis ann	area and then		data data mare
AECL		Relati Sandi artat	Here shield diald		paint Mild' and	4000 MINT 1000
NEB ENVIRONMENT		man man wind		and may may		faced faced shifts
ÊNV ÊNV	15		15		15	
ENV-ADM			U 1		C 4	feel one test
ENV-ES	15		15		15	
ENV-EPS		while bank serve.		Miles areas anterio		
ENV-AES						
ENV-ECS	15	···	15	tends have the	15	4444 (proc 1998)
ENV-FOR				any joint quar		and only the
ENV-PC					area fair? area	8-2- 070 MIS
EXTERNAL AFF	AIRS					
EA	which family server			wire family family	stati fashi seen	-
EA-CIA			white space three		fand own falm	pairs data data
CIDA	000				COF	
IDRC FINANCE	608	JAIN SPIE MAN	370	JAM BUR JAM	625	and the second second
FIN						AND YOU SHOE
FIN-FEP			pains write areas		area abd over	A40. 100. IFT
FISHERIES AN	D OCEANS					
F&0						
F&Ø-FM			and all one	which income service		
INDIAN AFFAI	RS & NOR	THERN DEVELO	PMENT			
IAND	216	137	284	137	284	147
IAND-IIA		137	Ball what seem	137	and which ever	147
IAND-NA	216	man wind down	284	allow when deal	284	shift adult units
INDUSTRY TRA						
ITC	171	5	900	10	243	76
ITC-TI	171	5	900	10	243	76
ITC-TOUR			and man over	water the state		
ITC-GO						

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FEDERAL SUPPORT OF RESEARCH AND DEVELOPMENT IN CANADIAN UNIVERSITIES AND NON-PROFIT INSTITUTIONS BY DEPARTMENT OR AGENCY, 1979-1982

DEPARTMENT	19	79-80		80-81	19	81-82
OR AGENCY	GRANTS	CONTRACTS			GRANTS	CONTRACTS
JUSTICE						
JUST	973		694		700	
JUST-ADM	973		694		700	
JUST-CUIO						
CHRC LRC						
LABOUR						
LAB	74	10	75	65	82	71
NATIONAL DEF	ENCE					-
NDEF NDEF-SER			446 446 446			
NATIONAL HEA	LTH AND					
NHW	5,528	81	5,336	190	5,662	210
NHW-ADM	E E 20		5 770	100	E 000	
NHW-HSS NHW-MS	5,528	18	5,336	190	5,662	210
NHW-HP						
NHW-IS						
MRC						
NATIONAL REV	ENUE					
NREV-TAX						
POST OFFICE						
PO						
PRIVY COUNCI		0.7.4	E (0)		E 40	
PC COL	1,522	274	549		549	
ECC		717		207		165
PUBLIC WORKS				2.01		
PW						
PW-PTS CMHC	5	25	4			
NCC						
REGIONAL ECO	NOMIC EX	TANSION				
REE						
SCIENCE AND	TECHNOLO	GY				
NRC						
NRC-SIR						
NRC-STI		oute many water				ques bior bior
NSERC SC		185		100		150
SECRETARY OF	STATE	105		102		156
SECS	2,301	476	2,409	476	2,224	500
SECS-OL	246	the up on	480		509	
SECS-ES	100 00 00	470		170		500
SECS-TRA SECS-CIT	2,055	476	1,929	476	1,715	500
PSC			1,525		17113	
SOLICITOR GE						
SGEN	300	496	350	410	350	649
SGEN-ADM RCMP	300	496	350	410	350	649
SUPPLY AND S	ERVICES				an en añ	
SS				19		20
SS-SUPP				19		20
STCAN	the an un-			the on an		-
TRANSPORT TPT			the the set		ALC: 247 AM	err all blo
TPT-ADM			-			
TPT-MAR	-	that use the			Mail unit ante	
TPT-AIR						
TPT-SUR CTC		142		164		142
TREASURY BOA	RD	7 -45-		104		1-46
TB TB-ADM	I 13 1 13		1 I 3 1 1 3	an an 60	113	
TOTAL	26,621	2,579	28,309	1,876	29,426	2,198

## FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY

		1979-80	684 taur ann aite ann ann 100 100 100 100 100 100	r man man Hoff Why fame films may may use, were use	1980-81		n mine man mana ann ann ann ann ann fhèir fhèir fhèir ann chùn Mh	1981-82	
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
AGRICULTURE AGR AGR-ADM	1,000	491	1,491	1,200	607	1,807	1,600	621	2,221
AGR-DEV AGR-RI AGR-CGC	1,000	491	491 1,000	1,200	607	607		583	583 1,638
CDC CLFB COMMUNICATIONS	17	412	412 17	18	600 5	600 23	21	1,000	1,000 26
COMM COMM-COMM COMM-AC CBC CBTC	3,451 3,062 389 1,597	777 584 193 1,751	4,228 3,646 582 3,348	4,028 3,695 333 1,647	1,194 864 330 2,007	5,222 4,559 663 3,654	4,476 3,977 499 1,753	1,083 823 260 2,221	5,559 4,800 759 3,974
NFB NLIB	14,712 24,669 9,320 1,746	13,542	14,730 30,397 9,320 15,288	17,156 25,332 9,900 1,959	23 5,104 15,825	17,179 30,436 9,900 17,784	21,536 26,135 12,009 2,123	36 5,577 16,445	21,572 31,712 12,009 18,568
CCA CCA-ADM	441 489	312 24	753 433	524 489	188	712 489	619 584	450 65	
CCA-CON CCA-COR CCA-CICP ECONOMIC DEVEL	32	288	320	35	188	223	35	385	420
ED EMPLOYMENT &	1,400	200	1,600	1,656	150	1,806	2,849	150	2,199
EI-ADM CEIC	7,141 7,141 4,280	770 770 1,520	7,911 7,911 5,800	7, 173 7, 173 4, 573	828 828 3,185	8,001 8,001 7,758	7,601 7,601 4,995	878 878 3,376	8,479 8,479 8,371
	3,297 1,065 2,232	 408 400 8	3,705 1,465 2,240	2,546 1,350 1,196	550 550	3,096 1,900 1,196	2,788 1,470 1,318	600 600	3,388 2,070 1,318
AECL NEB	445	and the state	445	465		465	518	and and and	518
ENVIRONMENT ENV-ADM ENV-ES ENV-EPS	13, 191 192 3, 123	396 	13,587 192 3,460	14, 327 261 3, 202	399  334	14,726 261 3,536	16, 123 308 3, 865	477	16,600 308 4,271
ENV-AES ENV-ECS ENV-FOR	3,123	337	3,460	3,202	334	3,536	3,865	406	4,271
ENV-PC EXTERNAL AFFA:	9,876	59	9,935	10,864	65	10,929	11,950	71	12,021
EA EA-CIA CIDA IDRC	3,618 3,618 1,140 3,998	1,410 1,410 1,658 1,195	5,028 15,028 2,798 5,193	3,900 3,900 1,257 5,083	1,612 1,612 1,622 1,302	5,512 5,512 2,879 6,385	4,414 4,414 1,464 5,827	1,762 1,762 1,784 1,502	6,176 6,176 3,248 7,329
FINANCE FIN FIN-FEP	8,114 8,114	arro kato kaso kara sana sana	8,114 8,114	9,507 9,507	have save	9,507 9,507	11,001 11,001	man ann	11,001 11,001
FISHERIES AND F&O F&O-FM	2,260 2,260	300 300	2,560 2,560	2,375 2,375	300 300	2,675 2,675	2,276 2,276	300 300	2,576 2,576
INDIAN AFFAIRS IAND IAND-IIA IAND-NA INDUSTRY TRADI	983 75 908	1,563 1,353 210	MENT 2,546 1,428 1,118	1,123 80 1,043	1,542 1,358 184	2,665 1,438 1,227	1,208 85 1,123	1,863 1,441 422	3,071 1,526 1,545
ITC-TI ITC-TI ITC-TOUR ITC-GO	113 15 98	114 11. 	227 129 98	118 20 98	269 269	387 289 98	133 25 108	261 261	394 286 108

## FEDERAL INTRAMURAL AND EXTRAMURAL EXPENDITURES ON RELATED SCIENTIFIC ACTIVITIES

## BY DEPARTMENT OR AGENCY

(\$ THOUSANDS)

The first and any spectrum first first first and any spectrum set.		1979-80		nit mit am bie <sub>stat</sub> gig bie am am am am an	1980-81	lain lait fail lait lait an an an ain an an an an an		1981-82	
DEPARTMENT OR AGENCY	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL	INTRA- MURAL	EXTRA- MURAL	TOTAL
JUSTICE JUST JUST-ADM JUST-CU10 CHRC LRC	1,656 327 1,329 202 311	386 386  288	2,042 713 1;329 202 599	1,914 362 1,552 230 374	499 499  471	2,413 861 1,552 230 845	2,581 481 2,100 255 459	526 526  677	3, 107 1,007 2,100 255 1,136
LABOUR LAB NATIONAL DEFE	2,661	96	2,757	3,035	175	3,210	3,338	191	3,529
NDEF NDEF-SER NATIONAL HEAL	924 924	87 87	1,011 1,011	996 996	125 125	1, 121 1, 121	1,090 1,090	163 163	1,253 1,253
NHW-ADM NHW-HSS NHW-MS	3,651 2,807 357	3,062 1,070 1,992	6,713 3,877 2,349	4, 492 3, 235 726	3,163 1,570 1,593	7,655 4,805 2,319	4,593 3,540 523	3,770 2,070 1,700	8,363 5,610 2,223
NHW-HP NHW-IS MRC	487		487	531		531	530		530
NATIONAL REVEN	NUE 2,679 2,679		2,6 <b>79</b> 2,679	3,821 3,821		3,821 3,821	4, 548 4, 548		4,548 4,548
POST OFFICE PO PRIVY COUNCIL	386	3	389	274	26	300	574		574
PC COL ECC PUBLIC WORKS	6 859 844	672	859 1,516	975 1,011	400 000 900 400 000 000	975 1,011	1,172		1, 172 952
PW-PTS		100 000 inte		ann ann are				ann mar Ann	
CMHC NCC	3,645 495	2,028	5,673 495	4,200 430	1,720	5,920 4 <b>30</b>	4,620 582	2,259	6,879 582
REGIONAL ECON	non non bits	5 ION 638	638	and any any	845	845		1,434	1,434
SCIENCE AND T ST NRC	5, 156	536	5,692	5, 973	570	6, 543	7,410	2,289	9,699
HRC-SIR HRC-STI HSERC SC	1,236		1,236	1,511	999 min 486		1,712		1,712
SECRETARY OF SECS SECS-OL		657 35	2,790 71 129	2,380 71 155	982 302	3,362	2,281 91	1,251 216	3,532
SECS-ES SECS-TRA SECS-CIT PSC	1,899	290 332	2,189 401	2,081	290 390	155 2,371 463	177 1,936 77	290 745	177 2,226 822
SOLICITOR GEN SGEN SGEN-ADM RCMP	ERAL 550 550	164 164	714 714	710 710	256 256	966 966	548 548	247 247	795 795
SUPPLY AND SET	RVICES 3 3	537	540	4	553	557	4	558	562
SS-SUPP STCAN TRANSPORT	3 118,626	537 31	540 118,657	4 1 <b>4</b> 3, 956	553 31	557 143,987	223, 456	558 34	562 223, 490
TPT TPT-ADM	325 120		325 120	1/240 135		1,240	1,220 135		1,220 135
TPT-MAR TPT-AIR TPT-SUR	205		205	1,105		1,105	1,085		1,085
CTC TREASURY BOAR		I18	1,623	1,300	96	1,396	1,532	118	1,650
TB TB-ADM	9,933 9,933	and you have	9,933 9,933	11,673 11,673		11,673 11,673	12,814 12,814	ante ottos anni	12,814 12,814
TOTAL	264,719	41,868	306,587	306,366	46,824	353,190	496,410	53,908	460,318

## FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY DEPARTMENT OR AGENCY, BY CATEGORY, 1979-80 ( FULL-TIME EQUIVALENT PERSON-YEARS )

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
AURICULTURE								
AGR	This page 1000	25	And more sums		2	and more peop		27
HGR-ADM NGR-DEV	were what man			and any sale			And And app	
R-RI R-CGC	unde diver sould	25	Water Marco and		2			27
CDC CLFB		1	the out the		1			2
COMMUNICATIONS								
COMM-COMM	8	39 32	33 32	3	28 27			111 102
COMM-AC		7	ī		1		see the en-	9
CRIC	4	19 2	5	31	2 5	and any set		57 16
NFR NIB	3	182	35	46	231			500
HMUS	5	73	137	188	116	165		684
PASSHRC		114 1	7 48	72	78 52	All the set		271 105
CONSUMER AND C		FAIRS	72	7	10			50
CCA-ADM	33	29 5	32	3	12			14
CCA-CON CCA-COR		11	1		4 2			18
CCA-CICP ECONOMIC DEVEL	ODMENT	11	direct limits more		3			14
3.7 × 1 3.7 × 1	13	8	5	dina mar une	5		alle dan gan	31
ELECOYMENT & I	MMIGRATION 6	85	9	26	61	data data ana		187
EI-ADM	6	85 89	9	26	61 66			187 174
CEIC EMEPGY MINES &	RESOURCES							
E R-ENER	4	82 29		14	22	And And and	Aller Mars and	129 30
EKR-MES	3	53	7	14	22	NEW OWN NAM	-	99
AECE						100 Mar 200		
ELERONMENT	The Bar are	10	dala non non	3	2			15
ZHV	1	95	14	82	47	3		242 5
EHIZ-ADM EHIZ-ES	1	2 39	7	8	3 12	1		68
ENV-EPS ENV-AES	Mater state ware	888 mm mm	mani yang digu Mili yani yani		-	anne man mus	Been Berly data	
ENV-ECS	I	39	7	8	12	1		68
EMP-FOR TMP-PC		54	7	74	32	2	Addr and addr	169
EXTERNAL AFFAI	RS	4	68	-	38			110
ER-CIA		4	68		38		(m) and (m)	110
C1DA IDRC	15	9 35	17 15	3 47	10 56			40 158
FINANCE	8	120	20	22	43		-	212
FIN-FEP	8	120	20	22	43			212
FISHERIES AND	OCEANS	46	13	11	30			100
Frø-FM	A NORTHERN	46	13	11	30	which data? Sold		100
INDIAN AFFAIRS	G NORIMERN	30	72	5	4	2		47
I HD-IIA I HD-NA		2	2 5	1	Ø 4	2	that the out	5 43
INDUSTRY TRADE	AND COMMER	CE						
ITC-TH		55		1	1	1	Non-Add Add	11 7
TTC-TOUR TTC-GO			3		bild ann ann	1		4
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								

## FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES

#### BY DEPARTMENT OR AGENCY, BY CATEGORY, 1979-80

( FULL-TIME EQUIVALENT PERSON-YEARS )

DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
JUSTICE								
JUST	2	14	9	1	23			49
JUST-ADM		14	4	1	17	an an Sri		36
JUST-CUIO	2		5		6 2			13
CHRC LRC	3	1	4	and man any	29			37
LABOUR								
LAB	1	24	28	19	36			107
NATIONAL DEFEN	CE	17	2	and their new	16	Ø	29	64
NDEF NDEF-SER		17	2		16	ğ	29	64
NATIONAL HEALT	H AND WELFA	ARE						
NHK	7	67	28	20	42			163
NHM-ADM	5	47	15	16	28		andri some etter	111 35
NHW-HSS NHW-MS	1	14			1			
NHW-HP			Quega admin Mana	State Adds State				
NHW-IS	1	6	5	4	3	find one case		17
MRC DELEN			and man upo	first and gas	the the ma			
NATIONAL REVEN	UE 2	27	68	2	71		first and gas	170
NREV-TAX	2	27	68	2	71			170
POST OFFICE								
PO	2	10	2	6	5			25
PRIVY COUNCIL								
PC COL	1		24		5	and the first		30
ECC	4	94	37	14	79			228
PUBLIC WORKS								
PW	and and and	Stird (pers. Anne			and the first			
PW-PTS	8		1	41	18			108
CMHC	3	40	1	14	4	6		46
REGIONAL ECON								
REE	1	12	I	3	7			23
SCIENCE AND TI			76	5	47	2	HAR AND MAD	162
ST	21		0		54 F		part and man	102
NRC-SIR				ands filed wave		wa ano		-
NRC-STI								-
NSERC	~ ~ ~		10	1 m				63
SC SECRETARY OF S	TOTE 3	13	12	13	22			0.5
SECS	and	3	143	2	57			205
SECS-OL		1				and other men		1
SECS-ES	that their state	2	I	and man with	1	and such that	and they been	4
SECS-TRA			141	2	56			197
SECS-CIT PSC			1		1			6
SOLICITOR GENI	ERAL				~			
SGEN		30	3	We far and	10	1		44
SGEN~ADM		30	3	and the state	10	1	and that say	44
RCMP SUPPLY AND SEI	REAL				_			
SS SS			0	na na Gel	Ø			0
SS-SUPP			0		Ø			0
STCAN	28	763	668	725	2,311	39		4,534
TRANSPORT		2	Ø	4	1			8
TPT-ADM	1	2	0	the second	1			
TPT-MAR		per des des						
TPT-MAR TPT-AIR	1	Ø	Ø	4	1			6
TPT-SUR	100 ant and	2						2
CTC TREACHRY POOR	2	50	1	12	16			81
TREASURY BOAR	19	18	135	2	45			219
TB-ADM	19	18	135	2	45		with spin that	219
								0.000
TOTAL	173	2,323	1,700	1,453	3,756	222	29	9,657

## 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
						a way and the way and the first the shift shift per and		
AGRICULTURE		30			2			32
AGR-ADM	-							
AGR-DEV AGR-RI		30			2			
AGR-CGC					and and wes			
CDC CLFB	0	 I						2
COMMUNICATIONS					1			C
COMM COMM	8	39	33	3	29			112
	8	32	32	3	27		the bull date	102
CBC	4	19	1	31	2	ALC 101 173		57
CRTC NFB		2	5	4	6			17
NLIB	2	192	38	46	220	2		500
NMUS	5	73	137	188	116	160		679
PA SSHRC	4	113	3 50	68	82 49	1000 0000 0000 1000 0000		266 105
CONSUMER AND C	ORPORATE AF	FAIRS						
CCA-ADM	3	32 5	4 2	2	12			53 13
CCA-CON		14	22	2	4			22
CCA-COR		2		flow man	2			4
CCA-CICP ECONOMIC DEVEL	OPMENT	11			3			14
ED	14	14	3	I	10			42
EMPLOYMENT & I	MMIGRATION 6	79	9	26	61	-	alore final sour	181
EI-ADM	6	79	9	26	61			181
CEIC ENERGY MINES &	BECOUDCEC	86	9	11	58	600-1001-0000		164
EMERGY MINES &	4 KESUURCES	86	7	14	22			133
EMR-ENER	1	32			-	Name and And	and and and	33
EMR-MES AECB	3	54	7	14	22			100
AECL						alla ave ana		
NEB ENVIRONMENT		10		2	2	tant differ this		14
ENV	1	95	14	82	48	3	-	243
ENV-ADM		2			4		Ann. Ann 4999	6
ENV-ES ENV-EPS		39	7	8	12	1	the line are	68
ENV-AES				man area and				
ENV-ECS ENV-FOR		39	7	8	12	1		
ENV-PC		54	7	74	32	2		169
EXTERNAL AFFAI	RS	7	75		36			118
EA-CIA		7	75	and and one	36			118
CIDA	1	8	17	3	11	Webs and Alexand		.40
FINANCE	5	37	15	54	55	an- any end		165
FIN	10	135	19	21 21	38			223
FIN-FEP FISHERIES AND	10 OCEONS	135	19	21	38			223
F2.0		46	13	11	30			100
FSO-FM	A NODTUEDS	46	13	11	30	and the second	spinor gaint gaint	100
INDIAN AFFAIRS	e norimeri	31	7	5	4	3		49
AND-IIA		2	7 2	1	Ø			5
IAND-NA	AND COMMET	30 2CF	5	4	4	3	1000 1000 AM	45
ITC		5	3	1	I	I	that there shart	11
ITC-TI ITC-TOUR		5		I	1	1		7
ITC-GO			د 					4

### 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
JUSTICE		an a	alai bite any any any any any alay any bite ma. M					
JUST	1	15	10	-	21			47
JUST-ADM		15	4		16			35
JUST-CUIO	1	1	6		5		and the de	12
CHRC LRC	3	1	2 4		28			36
LABOUR								
LAB NATIONAL DEFENS	2	24	30	20	36			112
NDEF		17	2	-	16	Ø	30	65
NDEF-SER		17	2	day day into	16	0	30	65
NATIONAL HEALTH			20	0.0		and the same		170
NHU O'DM	75	72 47	28 15	20 16	44 28		and the second	111
NHW-ADM NHW-HSS	2	19	8		14	ALC 100 177	andre some steller	42
NHW-MS	5			Millio and State				
NHW-HP			able over sum					and past state
NHW-IS	1	6	5	4	3		alan dala dasar	17
MRC DEURIN	12				while and once	the dis ha		
NATIONAL REVEN	JE 2	31	65	4	88			190
NREV-TAX	2	31	65	4	88			190
POST OFFICE	2	11	2	3	8			26
PRIVY COUNCIL	-		-					Pert Data star
PC	1	shite shite some	25	400 000 000	4			30
COL	3	66	20	11	57		ways while white	157
PUBLIC WORKS	0	-00	20	a 2.	01			
PW		siter mits ann.	alas men alas					
PW-PTS				alan alan oras		which parties fielded		
CMHC	8	42	1	51	18	5		120 37
NCC REGIONAL ECONO	MIC EXPANSI	14 ION	1	12	3	J		31
REE	1	12	3	3	8		dasi dila dila	26
SCIENCE AND TE								
ST	21	11	69	5	48	2		156
NRC-SIR			while they unit	And and the	alia ana esa			
NRC-STI		(site than one				one tree one	error ener feiles	
NSERC					-		Bar 104.00	
SC	3	16	19	5	21		44- 54- 5-4	64
	TATE							100
SECS		3	133	2	54			192
SECS-OL SECS-ES		1					day and bidd	I 4
SECS-TRA		-	131	uno nuo siste	53	prior state state		184
SECS-CIT		Bin sine and	1	2		-		3
PSC		and the set	Aug	9900 Suit 144	while anno over-			-
SOLICITOR GENE	RAL							
SGEN ODM		30	37		10	1		44 44
SGEN-ADM RCMP	antes finite spen	30	3		10	1		
SUPPLY AND SER								
SS			Ø		Ø			Ø
SS-SUPP		440 Ann	Ø	print state from	0			0
STCAN	29	739	769	720	2,303	59	www white white	4,619
TRANSPORT TPT	2	4	2	17	2			28
TPT-ADM	<u> </u>	2		11	-			2
TPT-MAR				ality personal	Party and 100			
TPT-AIR	2	1	1	17	2	And ship over	per da un	24
TPT-SUR	adata datin mana	1	0	0			Bard Sale Sales	2
CTC TECOCHEV POORD	2	40	1	10	15	hand doke title	0000 0000 0000	68
TREASURY BOARD	27	23	139	3	40		-	232
TB-ADM	27	23	139	3 3	40			232
						was also use had the she too over one day the day and		9,730

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

AGRICULTUPE       AGR	DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				and the same that have over due over had way find	in ande false men adme over gere over over some some under an		d will only full alls and any and and you use any part you	WT THE distribution into one are up that the	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			49	dust fails alle		2			42
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Aug. 244 648					www.ukite.umit		
Refronce									
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	AGR-CGC								
Contractions         Contractions<				dealer werks theme					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		U	1		and the ste	1	data ditera stina		2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				33	3	28			111
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			32				the dust unit	NAME AND ADDR	
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$							NAME AND AND	allest their filest	
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$		26							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									279
$\begin{array}{ccccc} CCA & 4 & 26 & 8 & 3 & 12 & \dots & \dots & 53 \\ CCA-CON & 1 & 10 & 2 & 3 & 6 & \dots & \dots & 122 \\ CCA-CON & 1 & 10 & 2 & 3 & 6 & \dots & \dots & 122 \\ CCA-COR & & & & & & & & & & & & & & & & & & &$				50				An	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				0	7	10			57
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							White shade where a		
$\begin{array}{cccc} ccc-c1CP & & 11 & & & 3 & & & 14 \\ ccccondific DEVELOPMENT & 14 & 14 & 3 & 1 & 10 & & & 42 \\ ccccondific DEVELOPMENT & 1MIGRATION & 6 & 79 & 9 & 26 & 61 & & & 181 \\ ccccondific C & & 86 & 9 & 11 & 58 & & & 164 \\ ccccondific C & & 86 & 9 & 11 & 58 & & & 164 \\ ccccondific C & & 86 & 9 & 11 & 58 & & & 164 \\ ccccondific C & & 86 & 9 & 11 & 58 & & & 164 \\ ccccondific C & & 86 & 9 & 11 & 58 & & & 164 \\ ccccondific C & & 86 & 9 & 11 & 58 & & & 164 \\ ccccondific C & & 86 & 9 & 11 & 58 & & & 164 \\ ccccondific C & & 86 & 9 & 7 & 14 & 22 & & & 164 \\ ccccondific C & & & & & & & & & & 100 \\ ccccondific C & & & & & & & & & & & \\ ccccondific C & & & & & & & & & & & & \\ ccccondific C & $	CCA-CON	Ī			3				
$\begin{array}{c} \begin{tabular}{c} \begin$		able year yers			1077 diak				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		OPMENT	1 1	arity shift new	AND	3		and the same	14
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ED	14	14	3	I	10	dans field such		42
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			20	0	20	<i>c</i> (			101
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ENVIEONMENT       1       95       14       82       48       3        243         ENV-ADM        2        4        68         ENV-EPS       1       39       7       8       12       1        68         ENV-EPS            68        68         ENV-AES            68        68         ENV-FOS            68         68         ENV-FOR            68         68         EXTERNAL AFFAIRS         7       72        38        117         EA        7       72        38        117       117       117       117       117         EA        7       72        38        117       117       117		make some norm	10						
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ENV-EPS  169         1117        1117        1117        1117        1117        1117        1117        1117        1117        1117        1117        1117									
ENV-AES       1       39       7       8       12       1        68         ENV-FOR        54       7       74       32       2        169         ENV-PC        54       7       74       32       2        169         EA        7       72        38        117         EA        7       72        38        117         CIDA       1       8       18       3       11        41         IDRC       5       39       16       53       58         169         FINARCE        11       145       21       24       35        236         FISHERIES AND OCEANS        45       12       11       30        98         F&0        45       12       11       30        98         INDIAN AFFAIRS & NORTHERN DEVELOPMENT       1       31       5       4       4       3        98         F&0								and and serve	
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ENV-PC        54       7       74       32       2        169         EA        7       72        38        117         EA        7       72        38         117         CIDA       1       8       18       3       11         41         IDEC       5       39       16       53       58         169         FINAMCE       FIN       11       145       21       24       35        236         FINERES AND OCEANS       5       12       11       30        236         FAO        45       12       11       30        236         FRO-FM        45       12       11       30        98         INDIAN AFFAIRS & NORTHERN DEVELOPMENT        45       4       4       3        50         IAND-NA       1       31       5       4       4       3        55         IAND-NA       1							1		
EXTERNAL AFFAIRS       7       72        38         117         EA        7       72        38         117         CIDA       1       8       18       3       11        141         IDEC       5       39       16       53       58         169         FINAMCE       FIN-FEP       11       145       21       24       35         236         FIN-FEP       11       145       21       24       35        236         FISHERIES AND OCEANS        45       12       11       30        236         F&0        45       12       11       30        98         INDIAN AFFAIRS & NORTHERN DEVELOPMENT        45       12       11       30        98         IAND-NA       1       31       5       4       4       3        50         IAND-NA       1       31       5       4       4       3        46         IN							2	dage and here	
EA-CIA        7       72        38        117         CIDA       1       8       18       3       11        41         IDEC       5       39       16       53       58         169         FINANCE        11       145       21       24       35         236         FIN-FEP       11       145       21       24       35         236         FIN-FEP       11       145       21       24       35         236         FIN-FEP       11       145       21       24       35         236         F80        45       12       11       30         98         INDIAN AFFAIRS & NORTHERN DEVELOPMENT        45       12       11       30        98         IAND-NA       1       31       5       4       4       3        50         IAND-NA       1       31       5       4       4       3        46<	EXTERNAL AFFAIL	RS					-		100
CIDA       1       8       18       3       11        41         IDRC       5       39       16       53       58         169         FINANCE       FIN       11       145       21       24       35         236         FIN-FEP       11       145       21       24       35         236         FIN-FEP       11       145       21       24       35         236         FIN-FEP       11       145       21       24       35         236         F8.0        45       12       11       30         98         INDIAN AFFAIRS & NORTHERN DEVELOPMENT        45       12       11       30        98         IAND-NA       1       31       5       4       4       3        98         IAND-NA       1       31       5       4       4       3        46         INDUSTRY TRADE AND COMMERCE         3       1       1       1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
IDEC       5       39       16       53       58         169         FINAHCE       FIN-FEP       11       145       21       24       35        236         FIN-FEP       11       145       21       24       35        236         FISHERIES AND OCEANS       F80        45       12       11       30        236         F80        45       12       11       30        98         INDIAN AFFAIRS & NORTHERN DEVELOPMENT        45       12       11       30        98         IAND-1IA       2       23       6       4       4       3        50         IAND-NA       1       31       5       4       4       3        46         INDUSTRY TRADE AND COMMERCE         1       1       1       1       1       1       1         ITC        5        3        1       1       1       1       1       1       1       1       1       1       1       1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
FINANCE       I1       145       21       24       35        236         FIN-FEP       11       145       21       24       35        236         FISHERIES AND OCEANS       F80        45       12       11       30        236         F80        45       12       11       30        98         INDIAN AFFAIRS & NORTHERN DEVELOPMENT       45       12       11       30        98         IAND       2       33       6       4       4       3        98         IAND-IA       2       23       6       4       4       3        98         IAND-IA       2       2       1       0        98       98         IAND-NA       1       31       5       4       4       3        98         INDUSTRY TRADE AND COMMERCE       1       1       1        46         ITC        5        1       1        11         ITC-TI        3        1									
FIN-FEP       11       145       21       24       35         236         FISHERIES AND OCEANS       F80        45       12       11       30        98         F80        45       12       11       30        98         INDIAN AFFAIRS & NORTHERN DEVELOPMENT        45       12       11       30        98         IAND AFFAIRS & NORTHERN DEVELOPMENT        44       4       3        98         IAND-IIA       2       2       1       0        50        50         IAND-NA       1       31       5       4       4       3        46         INDUSTRY TRADE AND COMMERCE        5        1       1        11         ITC        5        1       1       1        14         ITC-TI        3        1       1        4									
FISHERIES AND OCEANS       45       12       11       30        98         F&0        45       12       11       30        98         INDIAN AFFAIRS & NORTHERN DEVELOPMENT       12       11       30        98         IAND-IA       2       33       6       4       4       3        98         IAND-IA       2       23       1       0        50				21					236
F&O        45       12       11       30        98         F&O-FM        45       12       11       30        98         INDIAN AFFAIRS & NORTHERN DEVELOPMENT        98        98         IAND       2       33       6       4       4       3        98         IAND-IA       2       22       1       0         98         IAND-IA       2       22       1       0         50         IAND-NA       1       31       5       4       4       3        46         INDUSTRY TRADE AND COMMERCE        5       3       1       1       1        46         ITC        5        1       1        4         ITC-TI        5        1       1        7         ITC-TOUR         3        1        4			140	<i>4</i> 1	24	35		BAN Buch und	236
INDIAN AFFAIRS & NORTHERN DEVELOPMENT         IAND       2       33       6       4       4       3        50         IAND-IIA       2       2       1       0         50         IAND-IA       1       31       5       4       4       3        46         INDUSTRY TRADE AND COMMERCE        5       3       1       1       1        46         ITC        5        1       1       1        46         ITC-TI        5        1       1        11       1         ITC-TOUR        5        1       1        4			45	12	11	30			98
IAND       2       33       6       4       4       3        50         IAND-IIA       2       2       1       0         5         IAND-NA       1       31       5       4       4       3        56         INDUSTRY TRADE AND COMMERCE        5       3       1       1       1        46         ITC        5        1       1       1        11         ITC-TI        5        1       1        7         ITC-TOUR         3         1        4		Nontart	45				dame hand addre		
IAND-NA     1     31     5     4     4     3      46       INDUSTRY TRADE AND COMMERCE      5     3     1     1     1      46       ITC      5     3     1     1     1      11       ITC-TI      5      1     1      7       ITC-TOUR      3       1      4				6	1	4	7		50
IAND-NA     1     31     5     4     4     3      46       INDUSTRY TRADE AND COMMERCE      5     3     1     1     1      46       ITC      5     3     1     1     1      11       ITC-TI      5      1     1      7       ITC-TOUR      3       1      4		22	2		Ø				
ITC      5     3     1     1     1      11       ITC-TI      5      1     1      7       ITC-TOUR      3      1     1      7	IAND-NA	1	31			4	3		
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ITC-TOUR 1 4						1	1		
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						gibilit allows sales		Ann free alle	

## FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, BY CATEGORY, 1981-82

( FULL-TIME EQUIVALENT PERSON-YEARS )

JUSTICE         1         21         9          20          14          15           JUST-CUIO          21         6          6          16           CHEC          1         2          28          16           CHEC          1         2          28          38           LASS          16          28          38           LASS          16          28         65           MICHARL PEENCE          17         29         20         43          168           MICHARL PEENCE           16          168          168           MICHARL PEENCE            17         17         29         20         163           17           MICHARL PEENUE         1         39         773         2         101          27         26          27         26          <	DEPARTMENT OR AGENCY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMIN. & FOREIGN SERVICE	TECHNICAL	ADMINIS- TRATIVE SUPPORT	OPERATIONAL	MILITARY	TOTAL
JUST - M.         1         21         9          20          51           JUST - M.         -<	JUSTICE				a) ann ann spin ann ade ann ann <u>ann</u> daor mar (Bin dao				
JUST-ADM DUST-ADM CHEC		1	21	9		20	and then also		51
CHECC          1         2          25           Liess         3         24         31         20         37          116           National Defence          17         2          16          39         653           Note -service          17         2          16          39         653           Note -service          16          16          39         653           Note -service          17         2	JUST-ADM		21	3	A80 (0a)		and sales when		
LEC         4         i         4          28           38           LEBOUR         3         24         31         20         37           38           MDEF          17         2          16          30         655           MDTONAL LEPLEN AND GELFARE          17         2          16          30         655           MITONAL LEPLEN AND GELFARE          17         2          16          30         655           MHAMMS         2         18         9          11          411           MHAMMS         2         18         9          11          411           MHAMMS         1         39         73         2         101          216           MEEV         1         39         73         2         101          216           MEEV         1         39         73         2         101          216           MEEV         1         39 <td></td> <td>1</td> <td></td> <td>6</td> <td></td> <td>6</td> <td></td> <td></td> <td>13</td>		1		6		6			13
LABOUR LABOUR 10000 1000 1000 1000 1000 1000 1000 1000 1000 1		A	1			29			
LAB         3         24         31         20         37           116           METCONAL DEFENCE         17         2          16          30         655           METCONAL HEALTH AND VELFARE         7         15         16         28          16          30         655           METONAL HEALTH AND VELFARE         5         47         15         16         28          111          141           METONAL EVENCE         1         6         5         4         3          17         METONAL EVENCE             17           METONAL EVENCE         1         6         5         4         3                                     17         25           216			*	4					50
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		3	24	31	20	37			116
NBEF-SEP          17         2          16          30         65           NHI-NAL         B         71         29         20         41          16         16         16         16         16         17         37         2         101          27         76         76         76         76         76         76         76         77         37         2         16         17         78          16         17         77         77		CE	4 100						05
NATIONAL HEALTH AND WELFARE HH-4-DDM       5       47       15       16       28									
NHM         8         71         29         20         41          16           HHH-HSS         2         16         9          11          111           HHH-HSS         1         6         5         4         3          11           HHH-HSS         1         6         5         4         3          17           HHH-HSS         1         39         73         2         101          216           NATIONAL FEVENUE         1         39         73         2         101          216           NATIONAL FEVENUE         1         39         73         2         101          216           PEC         1          25          4          27           COL         1          25          4          28           ECC         3         63         225         17         35          143           PBL             28         5		H AND WELES		C		10		30	63
HHU-ADM       5       47       15       16       28				29	20	41	un. 00 0.0		168
NHU-MS  <	NHW-ADM	5			16		war old has		
NHU-HP                17           METONAL REVENUE         39         73         2         101          216           METONAL REVENUE         39         73         2         101          216           POST OFFICE         2         11         2         3         9          27           POST OFFICE         2         1         25          4          27           PCOL         1          25          4          143           PUEL LC MORKS             144         1         12         3         5          143           PECIONAL ECONOMIC EXPANSION         14         1         12         3         5          28         SCIENCE AND TECHNORY         ST         161         17         165         165         16         18         5         21          165           SECCS -0          1          1          178 <td< td=""><td></td><td>2</td><td>18</td><td></td><td></td><td></td><td></td><td></td><td>40</td></td<>		2	18						40
NHR-15         1         6         5         4         3           17           NRTCONAL REVENUE         1         39         73         2         181           216           NEW         1         39         73         2         181           216           PST OFFICE         2         11         2         3         9           216           PC         1          25         17         35           27           PL              143           36           PUBLIC MORKS             143         1         123         5          37           PGCINAL ECONOMIC EXAMISION         14         1         123         10           28           SCT         6         14         1         167         5         53         2          11           NRC-STR <td></td> <td>and the case</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AND then then</td> <td></td>		and the case						AND then then	
NEC                       216           NEEL/TAX         1         39         73         2         181          216          216           NEEL/TAX         1         39         73         2         181           216           POSTOFFICE         2         11         2         3         9          27           POSTOFFICE         2         11         2         3         9          27           POSTOFFICE         2         11          25          4          143           PUBLIC WORKS             144         1         3         10          28           SCIENCE AND TECHNORGY         144         1         3         10          28           SCIENCE AND TECHNORGY         5         16         18         5         21		1	6	5	4	3		chief dans finan	17
NERV         1         39         73         2         181          216           MREV.TOK         1         39         73         2         181          217         218           POST OFFICE         2         11         2         3         9          217         218           POST OFFICE         2         11         2         3         9          217           PC             217         35          218           POST OFFICE         3         63         25         17         35          143           PULLIC MORKS             148          128           COME         8         42         1         121         18          128           COME         8         42         14         123         18          128           SCIENCE AND TECHNOLOGY         14         1         3         18          180          180           SECS-SIE									
NREW-TRX         1         39         73         2         181          216           POGT OFICE         2         11         2         3         9          27           POGT OFICE         2         11         2         3         9          27           POC              27           POC              27           POC              27           PULLIC WORKS             143           PULTC         8         42            143           SCIENCE AND TECHNOLOGY         23         11         67         533         2          161           NRC-STI            161         17          178           SECC OFST          16         18         5         21          178           SECSC-SCS	NATIONAL REVEN	UE							
POST OFFICE       2       11       2       3       9        27         PRIVY COUNCIL             27         COL       1        25        4         143         DUBLIC MORKS          14         143         PUBLIC MORKS           144        144         PUBLIC MORKS           144       1       128         PUBLIC MORKS           128         CMIC       23       14       1       12       3       18        128         REC INRUL ECONOMIC EXPRINSION       REC       1       1       1       128        28         SCIENCE AND TECHNOLOGY       5       16       18       5       21        28         SECS        23       122       1        178        178         SECS-TRA       <		1							
PD     2     11     2     3     9      27       PC       25      4      11       PC     1      25      4      11       PC     3     63     25     17     35      143       PUL       143       143       PUL         143       PUL         143       PUL         143       PUL         143       PUL            PUL           PUL           PUL           PUL            PUL            RC-STI            SECS-OL <th< td=""><td></td><td>1</td><td>39</td><td>13</td><td>6</td><td>101</td><td>and into the</td><td></td><td>210</td></th<>		1	39	13	6	101	and into the		210
PRI/PC       COL       1        25        4        133         PUBLIC MORKS            143         PHAPTS            143         PUBLIC MORKS            143         PCC       2       14       1       12       3       5        37         REE            28       5        37         SCIENCE AND TECHNOLOGY           28       5        27         SCIENCE AND TECHNOLOGY           28        28         SCIENCE AND TECHNOLOGY           28        28         SCIENCE AND TECHNOLOGY           28        28         SECS-STRA		2	11	2	3	9			27
PC       1       1       25       1       36         ECC       3       63       25       17       35       11       143         PML       1       11       11       11       11       11       11       11         PML       11       <			A A		-	Ŭ			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
PUBLIC MORKS									
PH     TT     TT     TT     TT     TT     TT       PH     PTS     TT     TT     TT     TT     TT     TT       CCMAC     8     42     1     51     18     TT     TT       REE     14     1     12     3     5     TT     77       REE     14     1     73     18     TT     78       SCIENCE AND TECHNOLOGY     14     1     3     18     TT     78       SCIENCE AND TECHNOLOGY     11     67     5     53     2     TT       NRC     11     67     5     53     2     TT     161       NRC     TT     TT     TT     TT     TT     TT     78       SECS     TT     TT     TT     TT     TT     TT     78       SECS     SECS-OL     TT     1     TT     TT     178       SECS-TRA     TT     128     TT     14     TT     TT       SECS-TRA     TT     128     TT     TT     TT     TT       SECS-TRA     TT     TT     TT     TT     TT     TT     TT       SECS-TRA     TT     TT     TT     TT<		3	63	25	17	35	date and man		143
PH-PTS               128           NCC         2         14         1         12         3         5          37           REGIONAL EXPANSION         14         1         3         18           28           SCIENCE AND TECHNOLOGY         14         1         3         18           28           SCIENCE AND TECHNOLOGY         23         11         67         5         53         2          161           NEC-SIR              28           SECCS         1              28           SECS          1            178           65           SECS          1         1          178          178          178           SECS          1         1          178          178          178						400 Ten 100			
CMPC     8     42     1     51     18      12       REC     2     14     1     12     3     5      37       REE     14     1     12     3     10      28       SCIENCE AND TECHNOLOGY     14     1     3     10      28       ST     23     11     67     5     53     2        NRC-SIR         28       SECENTRAY OF STATE     5     16     18     5     21        SECES     5     16     18     5     21      178       SECES     1     1     1     1      178       SECES     1     1     2     3     10     1        SECES     1				88 Ar 10					ada ada ada
PECIONAL ECONOMIC EXPANSION       14       1       3       10         28         ST       23       11       67       5       53       2        161         NRC             161         NRC-SIR             161         NRC-SIR             161         NRC-SIR              161         NRC-SIR               178         SECS       5       16       18       5       21         65         SECS-OL        1        1         65         SECS-OL        1       1        49        169         SECS-CIT        1       1        43       SGEN         <			42	1	51				
REE       1       14       1       3       10        20         SCIENCE AND TECHNOLOGY       23       11       67       5       53       2        161         NRC              28         NRC               28         NRC                 28         NRC-SII                     28         SEC       5       16       18       5       21         178         65       SECS        21       1        178        178        163        163        163        163         163         163         163				1	12	3	5	quega artica da se	37
SCIENCE AND TECHNOLOGY       11       67       5       53       2        161         NRC       11		MIC EXPHNSI		1	7	10	and your other		20
ST       23       11       67       5       53       2        161         NRC		CHNOLOGY	14	1	3	10			20
NRC-SIR                               65           SECR          3         122         3         50           65           SECS          1          1          178           SECS-OL          1          1          163           SECS-SE          120          10         1          43           SECS-CIT          1229         3          100         1          43           SGEN-ADM          29         3          100         1          43           SGEN-ADM          29         3          100         1          43           SGEN-ADM          29         3          100         1			11	67	5	53	2		161
NRC-STI                   65           SECR          1         1          1          65           SECS          1         1          1          65           SECS-OL         1          1          1          178           SECS-SES          2         1          49          169           SECS-CIT          1         2          49          169           SECS-CIT          1         2          178         3           SGEN-ADM          1         2          169         1          43           SGEN-ADM          29         3          10         1          43           SGEN-ADM          29         3          10         1          43           SUPPLY AND SERVICES        <					that that sho		and show many	the set on	
NSERC           65         SEC       5       16       18       5       21         65         SECS        3       122       3       50        178         SECS-OL       1       1        1        2       1        2       1        49        49        169       3       <									
Sc       5       16       18       5       21         65         SECRETARY OF STATE       3       122       3       50        1       1        178         SECS-OL        1        1        2        2         SECS-FES        128        49        169       3         SECS-CIT        128        49        169       3         SECS-CIT        128        49        3       3         SECS-CIT        128        49        169       3         SECS-CIT        129       3        10       1        43         SGEN-ADM        29       3        10       1        43         SGEN-ADM        29       3        10       1        43         SGEN-SUPP       -        0        0       0        20		and the star	All out the						
SECRETARY OF STATE       3       122       3       50        1 </td <td></td> <td>5</td> <td>16</td> <td>18</td> <td>5</td> <td>21</td> <td></td> <td></td> <td>65</td>		5	16	18	5	21			65
SECS-OL       1        1        2       1        1        2       1        1        1       2        1       1        1									
SECS-ES        2       1        4        1        4         SECS-TRA        128        49        163       3         PSC             3         SOLICITOR GENERAL       29       3        18       1        43         SGEN-ADM        29       3        10       1        43         SGEN-ADM        29       3        10       1        43         SGEN-ADM        29       3        10       1        43         SUPPLY AND SERVICES        0        0        0        0         STCAN       31       767       832       766       3.011       82        26         TPT-ADM        2        0        27       2489        23         TPT-ADM        2       2       15       2 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
SECS-TRA        120        49        169         SECS-CIT        1       2         3         SOLICITOR GENERAL                 3         SGEN-ADM        29       3        10       1        43         SGEN-ADM        29       3        10       1        43         SGEN-ADM        29       3        10       1        43         SUPPLY AND SERVICES        0        0        43         SS-SUPP        0        0		from spin and			1				
SECS-CIT            3         PSC        29       3        10       1        43         SGEN        29       3        10       1        43         SGEN        29       3        10       1        43         SGEN        29       3        10       1        43         SUPPLY AND SERVICES         0        0        0         SS-SUPP        0        0        0        0         SS-SUPP        0        0	SECS-TRA								
SOLICITOR GENERAL       29       3        10       1        43         SGEN ADM        29       3        10       1        43         RCMP        29       3        10       1        43         SUPPLY AND SERVICES         0          0         SS-SUPP        0        0        0        0         STCAN       31       767       832       766       3.011       82        5.489         TRANSPORT       2       4       3       16       2        5.489         TPT-ADM        2       4       3       16       2        5.489         TPT-ADM        2       2       2        2.6        5.489         TPT-ADM        2       2       2       10        2.7       2.3         TPT-ADM         0       0       0        2.3			and she was		2				
SGEN        29       3        10       1        43         SGEN-ADM        29       3        10       1        43         RCMP         10       1        43         SUPPLY AND SERVICES         0         43         SS-SUPP         0         0        43         SS-SUPP         0         0        43         SS-SUPP         0       0        0       0       0        5.489         TRANSPORT        2       4       3       16       2        5.489         TPT-ADM        2       4       3       16       2        26         TPT-ADM        2       2       2       15       2        23       1         TPT-AIR       2       2       2       15 <td></td> <td></td> <td></td> <td>10 To</td> <td>again and a man</td> <td>And some from</td> <td>man adm www</td> <td></td> <td></td>				10 To	again and a man	And some from	man adm www		
SGEN-ADM        29       3        10       1        43         SUPPLY AND SERVICES        0        0        0        43         SS       SS        0        0        0        0         SS       SS        0        0        0        0         STCAN       31       767       832       766       3,011       82        5,489         TRANSPORT        2       4       3       16       2        26         TPT       2       4       3       16       2        26         TPT-ADM        2         27        27         TPT-AIR       2       2       2       15       2        23         TPT-SUR        0       0       0         23         TPT-SUR        0       0       0         68		RAL	20	7		10	1		17
RCMP       III       IIII       IIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					100 000 000		1		
SUPPLY AND SERVICES       0        0        0         SS        0        0        0         STCAN       31       767       832       766       3.011       82        5.489         TRANSPORT       2       4       3       16       2        26         TPT-ADM        2       4       3       16       2        26         TPT-ADM        2         27									
SS-SUPP      0      0      0       STCAN     31     767     832     766     3.011     82      5.489       TRANSPORT     2     4     3     16     2      26       TPT     2     4     3     16     2      26       TPT-ADM      2       27     27       TPT-AIR     2     2     15     2      23       TPT-SUR      0     0     0      10       CTC     2     40     1     10     15      68       TREASURY BOARD     25     17     146     2     42      232       TB-ADM     25     17     146     2     42      232		VICES							
STCAN     31     767     832     766     3.011     82      5.489       TRANSPORT     2     4     3     16     2      26       TPT-ADM      2       26       TPT-ADM      2       26       TPT-ADM      2     2     15     2      27       TPT-AIR     2     2     2     15     2      23       TPT-SUR      0     0     0      10       CTC     2     40     1     10     15      68       TREASURY BOARD     25     17     146     2     42      232       TB-ADM     25     17     146     2     42      232	SS		100 0a0 ant					and only only	
TRANSPORT       2       4       3       16       2         26         TPT       ADM        2         2        2       2       2       16       2        2       2       2       1       2        2       2       2       1	SS-SUPP					0			
TPT       2       4       3       16       2         26         TPT-ADM        2          27       27       27       27       27       27       27       27       27       27       27       27       27       27       27       27       27       27       23       23       17       16       2       17       17       23       17       17       17       17       17       16       15         23       17       16       10       15         68         TREASURY BOARD       25       17       146       2       42         232         TB-ADM       25       17       146       2       42         232         TB-ADM       25       17       146       2       42         232	TRANSPORT	51	ror	032	100	3,011	62		3,463
TPT-ADM      2       2      2       TPT-MAR           2       TPT-AIR     2     2     2     15     2       23       TPT-SUR      0     0     0       1       CTC     2     40     1     10     15      68       TREASURY BOARD     25     17     146     2     42      232       TB-ADM     25     17     146     2     42      232	TPT	2	4	3	16	2			26
TPT-MAR     2     2     2     15     2      23       TPT-AIR     2     2     15     2      23       TPT-SUR      0     0     0      10       CTC     2     40     1     10     15      68       TREASURY BOARD     25     17     146     2     42      232       TB-ADM     25     17     146     2     42      232	TPT-ADM								
TPT-SUR          0         0         0         0          1           CTC         2         40         1         10         15           68           TREASURY BOARD         25         17         146         2         42          232           TB-ADM         25         17         146         2         42          232	TPT-MAR								
CTC         2         40         1         10         15          68           TREASURY BOARD         25         17         146         2         42          232           TB-ADM         25         17         146         2         42          232	TFT-AIR	2	2	2		2	and any sur-		
TREASURY BOARD         25         17         146         2         42          232           TB-ADM         25         17         146         2         42          232	CTC	2				15			
TB         25         17         146         2         42          232           TB-ADM         25         17         146         2         42          232	TREASURY BOARD	L .	-70	X		10			
	TB	25			2				232
TOTOI 107 2 720 1 957 1 400 4 446 247 78 14 647		25	17	146	2	42			232
	TOTOL	107		1 057	1 /00	A 145	2/2	70	10 0/2

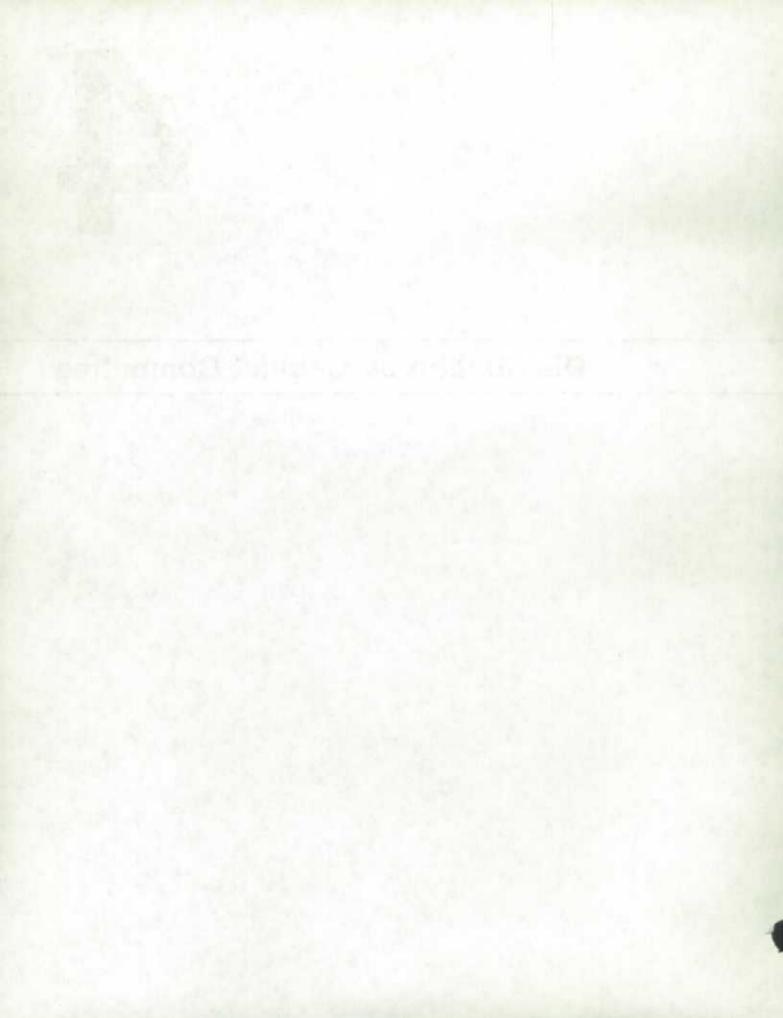
#### FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

( FULL-TIME EQUIVALENT PERSON-YEARS )

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1979-80								
INTRAMURAL R&D	22	391	158	109	217	6	18	921
INTRAMURAL RSA	139	1,839	1, 439	1,330	3,420	216	11	8,394
ADMIN. OF EXTRAMURAL PROGRAMS	12	93	103	14	120	Ø	Ø	341
TOTAL	173	2,323	1,700	1,453	3,756	222	29	9,657
1980-81								
INTRAMURAL R&D	22	351	154	101	199	6	19	851
INTRAMURAL RSA	150	1,869	1,532	1,344	3,407	230	11	8,542
ADMIN. OF EXTRAMURAL PROGRAMS	13	94	103	13	114	Ø	Ø	337
TOTAL	184	2,314	1,789	1, 457	3,720	236	30	9,730
1981-82								
INTRAMURAL R&D	26	484	156	110	185	6	19	907
INTRAMURAL RSA	154	1.881	1,596	1,375	4, 142	237	11	9,396
ADMIN. OF EXTRAMURAL PROGRAMS	13	94	104	15	118	0	0	341
TOTAL	193	2,378	1,857	1,498	4,445	243	30	10,643



# **Distribution by Cabinet Committee**



## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY COMMITTEE, BY SCIENCE ACTIVITY

					(\$	THOUSA	NDS)				100			
	ReD	TUPRI.	IC LENCES PSF		R&D	IUMAN S	CIENCES RSA R&		R&D	NATURI	AL AND HUI		SCIENCES TOTAL S&T	
	\$	ł X	\$	×	\$	x	\$	x	\$	x	\$	_×	5	×
TOTAL	1.100,308	100.0	394, 226	100.0	98,678	100.0	306,587	100.0	1, 190, 986	100.0	700,813	100.0	1,891.799	100.0
ECONOMIC DEVELOPMENT	865, 194	78.6	184,788	46.9	11,338	12.5	27,667	9.0	876,532	73.6	212,455	30.3	1,088,987	57.6
SOCIAL DEVELOPMENT	120,483	10.9	182,030	46.2	48,260	53.2	122,242	39.9	168,743	14.2	384, 272	43.4	473,0,5	25.8
EXTERNAL AFF. & DEF.	I11.089	10.1	25,212	6.4	15,765	17.4	14,030	4.6	126,845	10.7	39,242	5.6	166,087	8.8
SERVICE TO GOVERNMENT	3, 551	0.3	2, 196	0.6	15,315	16.9	142,648	46.5	18,866	1.6	144,844	20.7	163,719	8.7
1980-81 TOTAL	1,297,764	100.0	434,655	190.0	93,702	100.0	353,190	100.0	1,391,466	100.0	787,845	100.0	2, 179, 311	100.0
ECONOMIC DEVELOPMENT	1,029,647	79.3	200,942	46.2	11,623	12.4	31,432	8.9	1,041,270	74.8	232, 374	29.5	1,273,644	58.4
SOCIAL DEVELOPMENT	139,756	10.8	203,502	46.8	53,763	57.4	134, 157	38.0	193,519	13.9	337,659	42.9	531,178	24.4
EXTERNAL AFF. & DEF.	124, 101	9.6	26,161	6.0	13,996	14.9	15,897	4.5	138,097	9.9	42,058	5.3	180, 155	8.3
SERVICE TO GOVERNMENT	4,260	0.3	4,050	0.9	14,320	15.3	171,704	48.6	18,580	1.3	175,754	22.3	194, 334	8,9
1981-82 TOTAL	1,495,064	180.0	485,658	100.0	107,080	100.0	460,318	100.0	1,602,144	100.0	945,976	100.0	2,548,120	160.0
ECONOMIC DEVELOPMENT	1, 198, 508	80.2	220,628	45.4	13,810	12.9	37,997	8.3	1,212,318	75.7	258,625	27.3	1,470,943	57.7
SOCIAL DEVELOPMENT	155, 876	10.4	229,534	47.3	60, 147	56.2	149, 182	32.4	215,223	13.4	378,716	40.0	593.939	23.3
EXTERNAL AFF. & DEF.	140,072	9.4	29,247	6.0	16.070	15.0	18,006	3.9	156,142	9,7	47,253	5.0	203.395	8.0
SERVICE TO GOVERNMENT	1.408	0.1	6,249	1.3	17,053	15.9	255,133	55.4	18.461	1.2	261,382	27.6	279-84	11.0

(\$ THOUSANDS)

DEPARTMENT		1979-80	aa gaa kata amay aga gaa gaa gaa Cita ama g		1980-81	a and the set of the s		1981-82	
AGENCY	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL
OB AGENCY ECONOMIC DEL AGR AGR-ADM AGR-DEL AGR-CGC CDC CLFB COMM-COMM CCA CCA-ADM CCA-COR CCA-CCA-COR CCA-CCA-COR CCA-CCA-CCA-CCA-CCA-CCA-CCA-CCA-CCA-CCA	NATURAL /ELOPMENT CA 142.400 3,134 131.745 4,686 2,835  53.489 9,613  157.106 59,026 98,080 575 88,946 1,336 39,786 109.315 109.315 109.315 82.184 88.392  1,792 1,589 201,409 187,841 13.568 121.048 	HUMAN BINET COM 1,541 491 1,050 	TOTAL 141TTEE 143.941 3.625 132.795 4.686 2.835 4.686 12.188 433 2.667 8.441 647 1.680 162.680 68.491 102.189 162.680 68.491 102.189 162.680 68.491 102.575 88.946 1.781 39.786 112.665 83.461 81.324 1.792 3.225 3.017 5.692 201.409 187.841 13.568 121.048 121.048 14.916 14.916	NATURAL 151,025 3,212 138,947 5,673 3,193  65,602 11,205 1,678 9,527  195,452 88,120 107,332 107,332 107,332 107,332 112,903 112,905 940  3,021  27,391 221,184 163,204 14,077 14,077 14,077 14,077 14,077 14,075 27,828 9,176 10,956 7,222 474 1,230,589	HUMAN 1, 857 607 1,250  600 119 5,311 2,779 489 1,439 1,439 1,439 2,72 579 1,806 4,742 1,908 2,842  465  3,500 2,106 1,761 1,761 3,510 2,106 1,761 3,813 1,645 5,543  3,813 1,645 5,543  3,805 898 898	TOTAL 152,882 3,819 140,197 5,673 3,193 600 119 70,913 13,984 489 3,117 9,799 1,806 200,194 90,020 110,174 90,020 110,174 98,555 1,890 50,325 116,403 99,914 98,629 116,403 99,914 98,629 3,813 4,6643 237,391 221,149 14,975 14,975	NATURAL 167, 874 3,729 153,074 7,556 3,515 	HUMAN 2, 271 583 1, 688 136 6,274 2, 962 649 1, 551 762 2, 199 4, 191 2, 812 2, 870 2, 742 518 3, 430 3, 325 2, 946 3, 430 3, 325 2, 946 3, 430 3, 325 2, 946 3, 430 3, 325 2, 946 3, 430 3, 325 2, 946 3, 430 3, 325 2, 946 3, 430 3, 325 2, 946 3, 430 3, 325 2, 946 3, 430 3, 325 2, 946 3, 946 3, 94 3,	TOTAL 170, 145 4, 312 154, 762 7, 556 3, 515 1, 000 136 56, 785 15, 050 3, 401 10, 238 2, 199 275, 747 151, 123 124, 624 851 111, 516 2, 089 58, 293 119, 835 127, 052 126, 143 530 4, 191 8, 833 9, 639 274, 148 254, 922 19, 226 182, 016 3, 542 15, 110
TPT TPT-ADM TPT-ADM TPT-AIR TPT-AIR TPT-SUR CTC	14,053 27,133 7,974 9,930 5,655 3,574	229 102 2,718	14,916 27,674 8,184 9,930 5,884 3,676 2,718	14,077 27,828 9,176 10,956 7,222 474	898 1.410 235 1.105 70 2,456	14,975 29,238 9,411 10,956 8,327 544 2,456	14, 293 28, 571 11, 489 11, 192 5, 884 56	907 1,390 235 1,085 70 2,745	15,110 29,961 11,674 11,192 6,969 126 2,745
TOTAL CC	1,049,982	39,005	1,088,987	1,230,589	43,055	1,273,644	1,419,136	51,807	1,470,943
SOCIAL DEVEL COMM-AC CBC CRTC NFB NLIB NMUS PA SSHRC EI EI-ADM CEIC	OPMENT CABI	NET COMMI 582 3,348 542 14,730 31,983 9,320 36,581 9,203 9,203 5,800	TTEE 582 3, 348 542 499 14, 730 50, 062 9, 320 36, 581 9, 203 9, 203 5, 800	636 21,093	663 3, 654 776 17, 179 32, 245 9, 900 42, 641 9, 529 9, 529 7, 758	663 3,654 776 636 17,179	698 20,832	759 3,974 679	759 3,974 679 698 21,572

(\$ THOUSANDS)

DEPARTMENT		1979-80	a any any and this sale and any any any first		1980-81	an man wak man jing dan disi dan bili dan man		1981-82	
OR AGENCY	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL	NATURAL	HUMAN	TOTAL
ENV-PC IAND-IIA IAND-IIA JUST-ADM JUST-ADM JUST-CUIO CHRC LRC NHW-ADM NHW-HSS NHW-HSS NHW-HS NHW-IS MRC CMHC SECS SECS-OL SECS-ES SECS-CL SECS-TRA SECN	165, 897 1, 315 7, 075 102, 837 53, 245 1, 425 2, 347  2, 347  42, 608 6, 904 135 35, 569 70, 057 2, 995     31	4, 168 2, 839 1, 329 2, 328 15, 392 5, 287 9, 618  7, 987 7, 785 317 129 4, 849 2, 490	102,837 57,4406 1,6028 4,168 2,839 1,3202 2,3200 56,5135 56,5135 70,0582 7,787 10,9885 7,787 10,9885 7,787 12990 4,8490	117,703 54,242 1,566 2,587 2,587	4,240 11,046 3,919 1,705 2,214 4,794 3,242 1,552 2,622 16,447 9,476 531 8,132 9,193 853 1555 5,226	12,612 6,506 1,705 4,801 4,794 2,242 1,230 2,622 66,240 18,211 1,440 39,613 82,031 11,901 815 522 5,260	1,621 8,170 133,936 65,470 1,723 2,640  2,640  56,392 7,891 1,621 46,880 88,590 4,146 	5,118 12,150 1,812 2,578 6,315 2,100 255 3,302 17,683 7,270 9,883 7,270 9,883 	133,936 70,588 13,873 7,030 1,812 5,218 6,215 4,215 2,160 2,205 74,277 17,774 1,6330 88,595 88,595 13,875 2,00 14,812 2,00 14,812 14,830 14,830 14,830 14,830 14,830 14,830 14,830 14,830 14,830 14,830 14,830 14,830 14,830 14,830 14,830 14,830 14,855
TOTAL CC				the one pair off the over size of the over pair of	a same badd badd over hing over over and will b		a fill fill and put and say and say and say and	209,329	593,930
EXTERNAL AFF EA EA-CIA CIDA IDRC NDEF NDEF-SER		5,028	5,028	9999 (mit) (mit)	5,512 5,512 4,364 18,221 1,796 1,796	5,512 5,512 37,117 39,034 98,492 98,492	36,663 24,407 108,249 108,249	6,176 6,176 4,873 21,043 1,984 1,984	6,176 6,176 41,536 45,450 110,233 110,233
TOTAL CC	a part with the part of the set of the set		the state wave wave some same same land the	the part and and the set of the set of the set of	the same same game way when your same same a	and the last per per the set for any one and	a new didd gave many case and had been store when been	the same and the loss and the same and the	the and for the set and the set
SERVICE TO G FIN FIN-FEP NREV-TAX PO PC COL ECC PW PW-PTS NCC PSC STCAN TB TB-ADM	5,747	CABINET CO 8, 114 8, 114 4, 168 632 1, 802 859 8, 841  1, 133 212 122, 156 10, 046 10, 046	8,114 8,114 4,168 4,168 4,168 1,802 859 8,841 5,747 1,133 212 122,156 10,046 10,046	100 800 100	1,091 148,271 11,786 11,786	8,310 1,091 148,271 11,786 11,786		11,001 11,001 6,132 6,132 1,147 549 1,172 7,392  1,913 229,953 12,927 12,927	11,001 6,132 6,132 1,147 1,147 7,657 7,657 7,657 1,913 229,953 12,927 12,927
TOTAL CC			163,710			194, 334	7,657	272,186	279,843
TOTAL									

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

## BY PERFORMER, 1979-1982

#### ECONOMIC DEVELOPMENT CABINET COMMITTEE

#### (\$ THOUSANDS)

PERFORMER	1979-	80	1980-	81	1981-	82
	\$	%	\$	%	\$	%
INTRAMURAL	656,527	( 60.3)	733,373	( 57.6)	839,201	( 57.1)
INDUSTRY	210,600	(19.3)	253,932	(19.9)	297,759	( 20.2)
UNIVERSITIES	139, 204	(12.8)	183,903	(14.4)	205,480	( 14.0)
NON-PROFIT INSTITUTIONS	9,416	( 0.9)	11,738	( 0.9)	12.985	( 0.9)
PROVINCIAL & MUNICIPAL	57, 172	( 5.3)	72,536	( 5.7)	98,455	( 6.7)
FOREIGN	6,947	( 0.6)	9,899	( 0.8)	10,304	( 0.7)
OTHER CANADIAN	9,121	( 0.8)	8,263	( 0.6)	6,759	( 0.5)
						an in the set of the s
TOTAL	1,088,987	(180.0)	1,273,644	(100.0)	1,470,943	(100.0)

\*\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY PERFORMER, 1979-1982

## SOCIAL DEFELOPMENT CABINET COMMITTEE

(\$ THOUSANDS)

					85
\$	*	\$	%	\$	%
311,650	( 65.9)	346,071	( 65.2)	394, 548	( 66.4)
13,687	( 2.9)	17,891	(3,4)	19,758	( 3.3
110,132	(23,3)	128,015	(24.1)	136,792	( 23.0)
13,314	( 2.8)	13,382	( 2.5)	14, 161	( 2.4
11,610	( 2.5)	11,513	( 2.2)	13,219	( 2.2
67411	(1.4)	6,944	( 1.3)	7,356	( 1.2
6,211	( 1.3)	7,362	( 1.4)	8,105	( 1.4
	and also date they also also dell pay o	11 mil mil 62° spr we we are not see an			
473,015	(100.0)	531,178	(100.0)	593,939	(100.0)
	13,687 110,132 13,314 11,610 6,411 6,211	13.687 ( 2.9) 110.132 ( 23.3) 13.314 ( 2.8) 11.610 ( 2.5) 6.411 ( 1.4) 6.211 ( 1.3)	13.687       (2.9)       17.891         110.132       (23.3)       128.015         13.314       (2.8)       13.382         11.610       (2.5)       11.513         6.411       (1.4)       6.944         6.211       (1.3)       7.362	13,687       (2.9)       17,891       (3.4)         110,132       (23.3)       128,015       (24.1)         13,314       (2.8)       13,382       (2.5)         11,610       (2.5)       11,513       (2.2)         6,411       (1.4)       6,944       (1.3)         6,211       (1.3)       7,362       (1.4)	13,687       (2.9)       17,891       (3.4)       19,758         110,132       (23.3)       128,015       (24.1)       136,792         13,314       (2.8)       13,382       (2.5)       14,161         11,610       (2.5)       11,513       (2.2)       13,219         6,411       (1.4)       6,944       (1.3)       7,356         6,211       (1.3)       7,362       (1.4)       8,105

INTERMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

## FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES BY PERFORMER, 1979-1982

#### EXTERNAL AFFAIRS AND DEFENCE CABINET COMMITTEE

#### (\$ THOUSANDS)

PERFORMER	1979-	80	1980-	81	1981-	-82	
FERFORMER	\$	%	\$	×	\$	*	
INTRAMURAL	76,886	( 46.3)	83,388	( 46.3)	91/786	(45.1)	
INDUSTRY	45,643	(27.5)	51,679	( 28.7)	60,248	( 29.6)	
UNIVERSITIES	6,073	( 3.7)	7,614	( 4,2)	8,800	( 4.3)	
NON-PROFIT INSTITUTIONS	924	( 0.6)	370	( 0.2)	555	( 0.3)	
PROVINCIAL & MUNICIPAL	1 1	( 0.0)	100	( 0.1)	Ø	( 0.0)	
FOREIGN	35,871	(21.6)	36,470	(20.2)	41,375	( 20.3)	
OTHER CANADIAN	679	( 0.4)	534	( 0.3)	631	( 0.3)	
TOTAL	166,087	(100.0)	180, 155	(100.0)	203,395	(100.0)	

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

#### FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

#### BY PERFORMER, 1979-1982

#### SERVICE TO GOVERNMENT CABINET COMMITTEE

(\$ THOUSANDS)

PERFORMER	1979-	-80	1980-	81	1981-82			
PERFORMER	\$	*	\$	%	\$	%		
INTRAMURAL	157, 145	( 96.8)	188,668	( 97.1)	276, 161	( 98.7)		
INDUSTRY	3,465	( 2.1)	4, 414	( 2.3)	2,598	( 0.9)		
UNIVERSITIES	652	( 0.4)	240	( 0.1)	165	( 0.1)		
NON-PROFIT INSTITUTIONS	2,078	( 1.3)	721	( 8.4)	711	( 0.3)		
PROVINCIAL 8. MUNICIPAL	5	( 0.0)	Ø	( 0.0)	0	( 0.0)		
FOREIGN	242	(0.1)	194	(0.1)	179	( 0.1)		
OTHER CANADIAN	123	0.1)	97	( 0.0)	29	( 0.0)		
		5 (14 Met 100 M <sup>2</sup> ) (19 M <sup>2</sup> (19 M <sup>2</sup> ) (19 M <sup>2</sup> )	1 Mil 400 400 400 400 400 400 400 400 400					
TOTAL	163,710	(100.0)	194, 334	(100.0)	279,843	(100.0)		

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81	an ann 188 188 ann an An ann an		1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D			R&D	RSA	TOTAL
	82, 751 80, 712 247 1, 792 468 790 170, 607 170, 607	710 612 98 2,757 2,227 5,692 30,234 17,234 13,568	112,661 83,461 81,324 345 1,792 3,225 3,017 5,692 201,409 187,841 13,568	201, 107 201, 107	3,037 939 98 3,210 3,866 6,543 36,284 20,077 16,207	116, 4014 98, 629 345 940 3, 813 4, 666 6, 543 237, 391 221, 184 16, 207	232,072 232,072	1,044 936 108 3,529 7,861 9,699 42,076 22,850 19,226	127, 052 126, 143 379 530 4, 191 8, 833 9, 699 274, 148 254, 922 19, 226
TOTAL CC	876,532	212,455	1,088,987	1,041,270	232, 374	1,273,644	1,212,318	258,625	1,470,943
NMUS	542 298 2,837	582 3,348 201 14,730 47,225	582 3,348 542 499 14,730 50,062	24,857 1,528 1,528	50,447	53,338 9,900 42,641 9,529 9,529	679 456 5,759	759 3,974 242 21,572 50,371 12,009 18,569 8,479 8,479 8,479 8,479	3,974 679 21,572 56,130 12,009 45,601 10,050

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
ENV ENV-ADM ENV-EPS ENV-ECS ENV-PC IAND IAND-IIA IAND-NA JUST-ADM JUST-CUIO- CHRC LRC NHU-ADM NHU-ADM NHU-HSS NHU-MS NHU-MS	34, 463 417 4, 316 11, 657 17, 650 2, 857 2, 126 2, 126 2, 126 2, 126 1, 729 22, 244 1, 410 12, 445 135 8, 254	145,831 1,090 2,759 91,180 39,759 11,043 3,159 1,428 1,731 2,042 713 1,329 202 599 35,756 3,877 4,077 27,315	188,294 1,507 7,075 182,837 57,409 11,466 6,016 1,688 4,328 4,168 2,839 1,329 202 2,328 58,000 5,287 16,522 135 35,569	35, 968 399 5, 164 17, 826 3, 149 267 2, 882 2, 381 2, 381 2, 381 1, 777 28, 347 1, 635 13, 716 1, 440 11, 556	162,803 1,441 2,971 105,589 40,656 12,146 3,357 1,438 1,919 2,413 861 1,552 230 845 37,888	1,840 8,134 117,782 12,612 6,500 1,705 4,801 4,794 3,242 1,552 2,622 66,230	3,348 13,876 21,277 511 3,176 2,890 3,208 3,208 3,208  2,166 31,049	2,822 120,860 49,311 13,362 3,854 1,526 2,328 3,107 1,007 2,100 2,0000 2,000 2,000 2,000 2	70,588 13,873 1,812 5,218 6,215 2,105 2,105 2,25 74,075 7,274 17,774
NHIH-IS MRC CMHC SECS-OL SECS-ES SECS-TRA SECS-CIT SGEN SGEN-ADM RCMP	67,835 4,430 4,995 246		317 129	5,831 480	7,621 3,362 373 155	11,901 9,193 853 155	85,785 4,708 5,899 509	2,805 8,750 3,532 307 177	88,598 13,458 9,431 816 177
TOTAL CC	168,743	304, 272	473,015	193,519	337,659	<b>531</b> , 178	215,223	378,716	593, 939
EXTERNAL AFFA EA CIDA IDRC NDEF NDEF-SER		5,028	5,028		5,512 5,512 27,037 7,608 1,901 1,901		11,245 36,751 108,146 108,146	6,176 6,176 30,291 8,699 2,087 2,087	6,176 6,176 41,536 45,450 110,233 110,233
TOTAL CC									203, 395
SERVICE TO GO FIN FIN-FEP NREV-TAX PO PC COL ECC PW PW-PTS NCC PSC	1, 489 1, 489 243 1, 796		8,114 8,114 4,168 4,168 4,168 859 8,841 5,747 5,747 5,747 1,133 212	1, 436 1, 436 258 549 7, 819 4, 260 4, 268 661	4,000	9,507 5,257 5,257 5,558 975 8,030 8,310 8,310 1,091	1, 584 1, 584 573 549 6, 440 1, 408 1, 408 1, 331	4,548 574 1,172 952 6,249 6,249	6,132 6,132 1,147
STCAN TB TB-ADM	3, 499 113 113	118,657 9,933 9,933	122,156 18,046 10,046	4, 284 113 113	11,673	11,786	6,463 113 113	12,814	229,953 12,927 12,927
TOTAL CC					and disk last over oper year over over over o				279,843
				1,391,466					

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81	ann dad ann ann ann blid ann blid Bar blid abd		1981-82	
DEPARTMENT OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
ECONOMIC DEVE AGR AGR-ADM AGR-DEV	LOPMENT CA 133,991 127,969 4 686	BINET COM 8,409 3,134 3,776 1,499	4ITTEE 142,400 3,134 131,745 4,686 2,835	143, 486 136, 310 5, 673	7,539 3,212 2,637	151,025 3,212 138,947 5,673 3,193	161,465	6,409 3,729 818	167,874 3,729 153,074 7,556 3,515
CLFB		9,613	53,489 9,613	65,573	29 11,205	65,602 11,205	50,477		50,511 12,088
COMM-COMM CCA CCA-ADM CCA-CON CCA-COR CCA-COR CCA-CICP	ann ann ann	1,504 8,109	1,504 8,109	along and	1,678 9,527	1,678 9,527	and and and and	1,850 10,238	1,850 10,238
TIMD	123,028 58,639 64,389 575 75,410 36,120	34,078 387 33,691 13,536 1,336 3,666	157,106 59,026 98,080 575 88,946 1,336 39,786	160,696 87,652 73,044 768 83,084 45,825	34,756 468 34,288 15,471 1,425 4,500		229,163 147,487 81,676 851 93,267 53,705	41,772 1,566 40,206 18,249 1,571 4,588	270,935 149,053 121,892 851 111,516 1,571 58,293
F&O F&O ITC ITC-TI ITC-TOUR ITC-GO	54,511 54,511 81,701 79,909 1,792	54,804 54,804 483 483 	109,315 109,315 82,184 80,392	56,684	56,219 56,219 650 650	112,903 112,903 97,808 96,868	63,205 63,205 123,077	53,200 53,200 650 650	116,405
LOB REE		1,589	1,589		3,021	3,021	4000 0000 4000 0000 4000 4000	6,427	6,427
ST NRC NRC-SIR NRC-STI NSERC	170,607 170,607 110,300	30,802 17,234 13,568 10,748	201,409 187,841 13,568 121,048	201,107 201,107 147,028	36/284 20,077 16,207 16,176	16,207	232,072 232,072 159,908	42,076 22,850 19,226 22,108	274,148 254,922 19,226 182,016
SC SS-SUPP TPT-ADM TPT-AAR TPT-AAR TPT-AIR TPT-SUR CTC	11,823 11,823 13,645 6,908 3,518 3,164 55	2,230 2,230 13,488 1,066 6,412 2,491 3,519	14,053 14,053 27,133 7,974 9,930 5,655 3,574	11,825 11,825 16,413 7,993 5,363 3,002 55	2,252 2,252 11,415 1,183 5,593 4,220 419	14,077 14,077 27,828 9,176 10,956 7,222 474			
TOTAL CC	865,194	184.788	1.049.982	1,029,647	200,942	1,230,589	1,198,508	220,628	1,419,136
SOCIAL DEVEL COMM-AC CBC CRTC NFB NLIB NMUS PA SSHRC EI	OPMENT CAB	INET COMMI 201 16,828	TTEE 499 18,079	-	224	636 21,093	456 2,173	242 18,659	 698 20,832 
ÊI-ADM CEIC	and the test	alan alan kutu					ann and blat	Ann 499 699	

# FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

BY DEPARTMENT OR AGENCY, BY CABINET COMMITTEE

(\$ THOUSANDS)

EPARTMENT		1979-80			1980-81			1981-82	
DR AGENCY	Re.D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
ENM-ADM ENM-EPS ENM-AES	33,653 417 4,316 11,657	132,244 898 2,759 91,180	165,897 1,315 7,075 102,837	35, 147 399 5, 163 12, 114	148,077 1,180 2,971 105,589	183,224 1,579 8,134 117,703	40,468 432 5,348 13,876	170,452 1,189 2,822 120,060	210,920 1,621 8,170 133,930
ENV-ECS ENV-PC IAND	16, 946 317 1, 734	36,299 1,108 613	53,245 1,425 2,347	17, 122 349 1, 895	37,120 1,217 692	54,242 1,566 2,587	20,430 382	45,040	65,478 1,723 2,648
IAND-IIA IAND-NA		613	2,347	1,895	692	2,587	1,857	783	2,64
JUST JUST-ADM	and the second			and and one			was and soft	wate sense wate	
JUST-CUIO						and and and			
CHRC									
NHW NHW-ADM	13,565	29,043	42,608	19,555	30,233	49,788	21,720	34,672	56,39
NHW-HSS NHW-MS NHW-HP	5,176 135 8,254	1,728	6,904 135 35,569	6,559 1,440 11,556	2,176	8,735 1,440 39,613	5,708 1,621 14,391	2,183 32,489	7,89 1,62 46,88
NHW-IS MRC CMHC	67,835 2,116	2,222 879	70,057 2,995	79,467 2,068	2,564	82,031 3,769	85,785	2,805	88,59 4,14
SECS-OL					and and and	unit ally skile	with third size	And 1070 1000	100 CT 100
SECS-ES			www much Mine	dark with arts			onno telas unas	delle and inter-	eres dans som
SECS-TRA SECS-CIT		were anyo duct		water dashi wawa					
SGEN			-						
C C 1994 1 C C C L L	31	and any and	31	130		130	342	50	39
OTAL CC				139,756	203,502	343,258	155,076	229, 534	384,61
XTERNAL AFFA		FENCE CAB	INET COMMIT	TEE		1999 - 19			
EA-CIA	and the test	the set of the set		and the second		and the sec			
CIDA IDRC NDEF NDEF-SER	8,500 17,822 84,758 84,758	23,687 775 750 750	32,187 18,597 85,508 85,508	8,595 19,590 95,916 95,916	24,158 1,223 780 780	32,753 20,813 96,696 96,696	9,620 23,037 107,415 107,415	27,043 1,370 834 834	24.49
TOTAL CC	111,080	25,212	136,292	124, 101	26,161	150,262	140,072	29,247	169,31
ERVICE TO GO	VERNMENT C	ABINET CON	MITTEE	Burg style side.	and you like	Mine and son	with all all	ally ally sky	
FIN-FEP	0.02 Mar. 40.0		and which being	dard some first	darg why why			-	1000 1000 alba
NREV TAU	ever man man	and and		direct and with	10.00 mm mm	www.mark.go.mg			
NREV-TAX PO	Manut white the	Mine white solution	and the way	and the same	der and der		the fue the	Mark and Add	
PC				Man Guile Allin	and a surface starts		India Adult 1999	ALL 1997 ALL	All Distance
COL			many spec illust	-	-				
ECC PW	3,551	2,196	5,747	4,260	4,050	8,310	1,408	6,249	7,65
PH-PTS	3,551	2,196	5,747	4,260	4,050	8,310	1,408	6,249	7,65
PSC		duel failt failt		and start start			tant allow that		
STCAN				and, differ tilted	And shirth much	100 000 100			
TB TB-ADM		Andre andre Miller	400 404 404	ana 1999 www.	mp and one	ans me me			and man per
TOTAL CC	3,551	2,196	5,747	4,260	4,050	8,310	1,408	6,249	7,65
TOTAL 1	, 100, 308		1,494,534	1,297,764			1,495,064	485,658	

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

## ECONOMIC DEVELOPMENT CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1979-80								
INTRAMURAL R&D	42	4, 543	294	3,993	1,286	2, 336	0	12, 494
INTRAMURAL RSA	16	778	219	1,149	694	386	0	3,243
ADMIN. OF EXTRAMURAL PROGRAMS	7	142	249	18	175	26	0	616
TOTAL	65	S, 462	763	5, 159	2, 155		Ø	16, 353
1980-81								
INTRAMURAL R&D	45	4,578	296	4, 022	1,251	2,333	Ø	12,524
INTRAMURAL RSA	19	776	218	1,166	675	377	0	3,231
ADMIN. OF EXTRAMURAL PROGRAMS	7	144	303	17	213	26	0	709
TOTAL	70	5,498	817	5, 205	2, 139	2,736	0	16, 465
1981-82								
INTRAMURAL R&D	46	4,702	299	4,008	1,265	2,355	0	12,675
INTRAMURAL RSA	18	776	238	1.129	691	436	0	3,288
ADMIN. OF EXTRAMURAL PROGRAMS	8	141	305	19	218	26	8	718
TOTAL	72	5,619	841	5, 156	2, 174	2,817	0	16, 680

#### SOCIAL DEVELOPMENT CABINET COMMITTEE

#### FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1979-80								
INTRAMURAL R&D	5	517	165	187	120	57	0	1,051
INTRAMURAL RSA	19	1,131	259	1,632	776	193	Ø	4,010
ADMIN. OF EXTRAMURAL PROSEAMS	7	23	20	2	39	0	Ø	90
TOTAL	31	1,672	444	1,820	935	250	0	5, 151
1980-81								
INTRAMURAL Re.D	5	533	165	189	125	57	0	1,074
INTRAMURAL RSA	19	1.211	259	1,705	773	192	Ø	4, 158
ADMIN. OF EXTRAMURAL PROGRAMS	6	21	23	2	37	Ø	Ø	88
TOTAL	30	1,765	447	1,895	935	249	Ø	5, 321
1981-82								
	9	554	158	192	125	57	۵	1,095
INTRAMURAL RSA	28	1,212	259	1,725	769	184	0	4, 176
ADMIN. OF EXTRAMURAL PROGRAMS	6	21	23	2	37	0	Ø	88
TOTAL	42	1,787	448	1,918	9.31	241	PI	5, 359

#### EXTERNAL AFFAIRS AND DEFENCE CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

( FULL-TIME	EQUIVALENT	PERSON-YEARS	)
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ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1979-80								
INTRAMURAL R&D	12	503	94	495	232	271	154	1,760
INTRAMURAL RSA	0	7	3	Ø	23	Ø	Ø	33
ADMIN. OF EXTRAMURAL PROGRAMS	2	45	14	8	34	Ø	10	114
TOTAL	14	556	110	503	289	271	164	1,906
1980-81								
INTRAMURAL R&D	12	538	94	497	231	268	158	1,797
INTRAMURAL RSA	Ø	8	3	Ø	23	Ø	Ø	34
ADMIN. OF EXTRAMURAL PROGRAMS	2	46	15	7	36	Ø	10	116
TOTAL	14	<mark>59</mark> 2	I 12	504	290	268	168	1,947
1981-82								
INTRAMURAL R&D	12	538	94	497	232	267	159	1,798
INTRAMURAL RSA	Ø	8	3	Ø	23	Ø	Ø	34
ADMIN. OF EXTRAMURAL PROGRAMS	3	52	14	7	38	Ø	10	124
TOTAL	15	598	111	504	293	267	169	1,955

#### SERVICE TO GOVERNMENT CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1979-80	40 40 40 as		ting and and dath and ann and had all and ann and the Red WH AND	and the same and and any same safe same same sing of the same		n an die aan ook een mee me me we me ver verver w		
INTROMURAL R&D	Ø	6	0	1	0	Ø	Ø	7
INTRAMURAL RSA	Ø	27	?	4	1	Ø	Ø	39
ADMIN. OF EXTRAMURAL PROGRAMS	Ð	8	Ø	4	Ø	0	Ø	12
TOTAL	0	41	7	9	1	0	0	58
1980-81								
INTRAMURAL R&D	Ø	6	0	1	0	Ø	Ø	7
INTRAMURAL RSA	0	31	7	6	1	0.	Ø	45
ADMIN. OF EXTRAMURAL PROGRAMS	Ø	8	Ø	3	Ø	Ø	Ø	11
TOTAL	0	45	7	9	1	Ø	Ø	63
1981-82								
INTRAMURAL R&D	0	5	Ø	Ø	Ø	Ø	Ø	5
INTRAMURAL RSA	Ø	29	9	6	2	Ø	Ø	47
ADMIN. OF EXTRAMURAL PROGRAMS	0	9	0	3	Ø	0	0	12
TOTAL	0	42	9	9	2		0	63

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
			TOTAL	R&D	RSA	TOTAL	R&D		TOTAL
ECONOMIC DEVE	LOPMENT CA	BINET COM	ITTEE				re link one das das sis and and one one one are	ten ga ten das sid aid sid ga das da	a milita mana dan dan dan ana ana dan dan
AGR	50	1,491	1,541	50	1,807	1,857	50	2,221	2,271
HGR-HUM OCP-DEV	50	1 000	1 050		607 1,200	607	50	583 1,638	583 1,688
AGR-RI			1,000	50  50	17200	17230			1,000
AGR-ADM AGR-DEV AGR-RI AGR-CGC CDC CLFB COMM-COMM				Tel: 000 and	Band over over				
CDC CLFB	62	412	479 79	96	600 23	600 119	110	1,000	1,000
COMM-COMM	1,491	3, 646 753 433	5,137	96 752	4,559	5,311	1,474	4,800	6,274
CCA	1,822	753	2,575	2,067	712 489	2,779	1,893	1,069	2,962
CCA-ADM CCA-CON CCA-COR CCA-COR CCA-CICP ED EMP	1 107	433	433	1 470	489	489		649  428	649
CCA-COR	722		1, 163 332 647	1,439	-	1,439	1,001	able fam area	1,551
CCA-CICP	327	320	647	272 356	223	272 579	342	420	762
ED		1,600	1,600		1,806	1,806		2,199	2,199
EMR-ENER	1,869	3,705	5,574	1,646	3,096	4,742	1,424	3,388	4,812
EMR-MES	1,869	2,240	4,109	1,646	1,900	2.842	1,424	2,070	2,070
AECB					465		data been data	and the sec	
AECL		445		and the set	4.00		54m 655 644		
EHV-FOR		443	445	the des on	465	465	And the set	518	518
F&O	790 790 1,050	2,560	3,350	825	2,675	3,500	854	2,576	3,430
F8.0-FM	790	2.560	3,350	825	0 075	3,500	854 854	2,576	3.430
ITC	1,050	227 129	1,277	1.719	387	2,106	2,931	394	3,325
ITC-TI ITC-TOUR ITC-GO	247	98	1,277 932 345	1,472 247	2,675 387 289 98	1,761 345	221	394 286 108	2,946
ITC-GO			titles shall used	some diese proce			they done uses	and the same	
LAB	468	2,757	3,225	603 800	3,210	3,813	662 972	3,529	4, 191
REE	468 790	638 5,692	1,428	800	845 6,543	1,645	972	1,434	2,406
NRC		5,632	3,636		67 343	6,343		3,639	3,633
NRC-SIR		-							
NRC-STI									
NSERC	1,245	1,236	2,481	1,494	1 511	3,005	1 070	1,712	3,542
		E 40	0.07	77.44	1,511 557	898	7 45	ECO	0.07
SS-SUPP	323	540	863	341 341 170 100	557	898	345	562	907
TPT ODM	216	325	541	170	1,240	1,410 235	170	1.220	1,390
TPT-MAR		120	210	100	135		345 345 170 100  70	135	230
TPT-AIR	24	205	229		1,105	1,105	min low size	1,085	1,085
TPT-SUR	102		102	70		70	70		70
SS-SUPP TPT TPT-ADM TPT-AADM TPT-AIR TPT-AIR TPT-SUR CTC	1,095	1,623	2,718	1,060	1,396	2,456	1,095	1,650	2,745
TOTAL CC				11,623	31,432	43,055	13,810	37,997	51,807
SOCIAL DEVELO	PMENT CABI	NET COMMIT	TEE				a the first and shift due has not our due the shift		n Mal had and and and and and
COMM-AC CIBC		582	582		663	663		759 3,974	759
			3, 348 542	776	3,654	3,654		3,974	3,974
CRTC	542	and the same			and the same	663 3,654 776	679	and fulfy fulfy	679
NLIB		14,730	14,730		17, 179	17,179	and data low	21,572	21,572
	1,586	201221	21,303	1,809	30,436	32,245	3,586	31,712	35,298
PA SSHRC	21 207	9,320	9,320		9,900	9,900		12,009	12,009
EI	1,292	7,911	36,581 9,203	24,857 1,528	8,001	42,641 9,529	27,033	18,568 8,479	45,601
SSHRC EI EI-ADM	1,292		9,203	1,528	8,001	9,529	1,571	8,479	10,050
CEIC		5,800	5,800		7,758	7,758		8,371	8,371

# FEDERAL EXPENDITURES ON SCIENTIFIC ACTIVITIES

#### BY DEPARTMENT OR AGENCY, BY CABINET COMMITTEE

(\$ THOUSANDS)

DEPARTMENT		1979-80			1980-81			1981-82	
DEPARTMENT OR AGENCY	R&D	RSA	TOTAL	R&D	RSA	TOTAL	R&D	RSA	TOTAL
ENV-ADM ENV-EPS	810	13, 587 192	14, 397 192	821	14,726 261	15, 547 261	976	16,600 308	17,576
ENV-AES ENV-ECS ENV-PC IAND IAND-IIA IAND-NA JUST JUST-CUIO CHRC LRC NHW NHW-ADM NHW-HSS	704 106 1,123 260 863 2,126 2,126 1,729 8,679 8,679 1,410 7,269	3,460 9,935 2,546 1,428 1,118 2,042 713 1,329 202 599 6,713 3,877 2,349	4,164 10,041 3,669 1,688 1,981 4,168 2,839 1,329 2,328 15,392 2,328 15,392 5,287 9,618	704 117 1,254 267 987 2,381 2,381 2,381  1,777 8,792 1,635 7,157	3,536 10,929 2,665 1,438 1,227 2,413 861 1,552 230 845 7,655 4,805 2,319	4,240 11,046 3,919 2,214 4,794 3,242 1,552 2,622 16,447 6,440 9,476	847 129 1,319 286 1,033 3,208 3,208 3,208 2,166 9,320 1;660 7,660	4, 271 12, 021 3, 071 1, 526 1, 545 3, 107 1, 007 2, 100 2, 100 2, 100 1, 136 8, 363 5, 610 2, 223	5.118 12,150 4,390 1,812 2,578 6,315 2,100 255 3,302 17,683 7,270 9,883
NHW-MS NHW-HP NHW-IS		487	 487	andy any you more any out	531		anto basis more anto takis silas	530	530
MRC CMHC SECS-OL SECS-ES SECS-ES SECS-CIT SEN SGEN-ADM RCMP	2,314 4,995 246	5,673 2,790 71 129 2,189 401 714 714	7,987 7,785 317 129 4,849 2,490 2,485 2,485	2,212 5,831 480 2,854 2,497 1,725 1,725	5,920 3,362 373	8,132 9,193 853	509	A 100 PT	9,312 9,431 816
TOTAL CC	and she was not use one one was the								
EXTERNAL AFFA EA CIDA CIDA IDRC NDEF NDEF-SER			ANTER COMMENT	900 YT					
TOTAL CC									
SERVICE TO GO FIN FIN-FEP NREV NREV-TAX PO PC COL ECC PW PW-PTS	Mill any faile	8,114	8,114	1,436 1,436 258 549 7,019	9,507 9,507 3,821 3,821 300  975 1,011	9,507 9,507 5,257 5,257 558 549 975 8,030	1,584	11 001	11,001 11,001 6,132 6,132 1,147 549 1,172 7,392
PW-PTS NCC	638	495	1 1 6 6		430	1,091	and the same	582	date with some
PSC STCAN TB TB-ADM	212	nam with man	212 122,156 10,046 10,046		man built over	and here ever	All a start water		and the serv
TOTAL CC	15,315	142,648	157,963	14,320	171,704	186,024	17,053	255, 133	272, 186
TOTAL									the set of the set of the set of

\*\* INTRAMURAL EXPENDITURES DO NOT INCLUDE NON-PROGRAM COSTS

#### ECONOMIC DEVELOPMENT CABINET COMMITTEE

#### FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1979-80								
INTRAMURAL R&D	S	77	12	22	26	1	0	142
INTRAMURAL RSA	51	264	169	69	203	2	Ø	758
ADMIN. OF EXTRAMURAL PROGRAMS	Ø	11	Ø	Ø	1	Ø	Ø	13
TOTAL	57	35 I	181	91	230	n man man man man pag akin yan pag man na ser	0	913
1980-81								
INTRAMURAL R&D	6	76	19	17	27	1	Ø	146
INTRAMURAL RSA	55	276	166	77	209	2	Ø	785
ADMIN. OF EXTRAMURAL PROGRAMS	Ø	11	Ø	Ø	1	Ø	Ø	12
TOTAL	61	363	186	94	237	3	0	943
1981-82								
INTRAMURAL R&D	8	122	18	18	28	1	Ø	194
INTRAMURAL RSA	58	243	167	76	216	2	Ø	762
ADMIN, OF EXTRAMURAL PROGRAMS	Ø	7	Ø	Ø	1	в	0	в
TOTAL	66	371	186	94	244	3	0	964

#### SOCIAL DEVELOPMENT CABINET COMMITTEE

#### FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERAT IONAL	MILITARY	TOTAL
1979-80								
INTRAMURAL R&D	1 I	137	96	33	88	2	Ø	367
INTRAMURAL RSA	27	669	298	489	676	172	Ø	2, 33 [
ADMIN. OF EXTRAMURAL PROGRAMS	6	47	67	6	80	Ø	Ø	205
TOTAL	44	853	461	528	B44	174	0	2,903
1980-81								
INTRAMURAL R&D	11	134	96	34	88	3	0	367
INTRAMURAL RSA	24	680	290	491	660	166	0	2.311
ADMIN. OF EXTRAMURAL PROGRAMS	7	49	68	8	76	0	0	208
Total	42	863	454	533	824	169	0	2,885
1981-82								
INTRAMURAL R&D	14	139	96	34	86	3	0	371
INTRAMURAL RSA	25	693	275	480	676	150	0	2,299
ADMIN. OF EXTRAMURAL PROGRAMS	7	49	68	В	76	0	0	208
TOTAL	46	881	439	522	838	153	0	2,878

#### EXTERNAL AFFAIRS AND DEFENCE CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. & FOREIGN SERV.	TECHNICAL	ADMINISTR. SUPPORT	OPERATIONAL	MILITARY	TOTAL
1979-80								
	Ø	Ø	1	0	8	2	18	27
INTRAMURAL RSA	2	31	66	42	73	0	11	223
ADMIN. OF EXTRAMURAL PROGRAMS	6	34	36	8	38	0	8	122
TOTAL	6	65	102	50	119	8	29	371
1980-81								
INTRAMURAL R&D	2	2	1	0	В	Ø	19	28
INTRAMURAL RSA	Ø	35	73	52	74	Ø	11	244
ADMIN. OF EXTRAMURAL PROGRAMS	6	34	35	5	36	Ø	0	115
TOTAL	6	69	189	57	117	0	30	387
1981-82								
INTRAMURAL R&D	2	0	1	Ø	8	8	19	28
INTRAMURAL RSA	8	33	71	52	74	ø	11	240
ADMIN. OF EXTRAMURAL PROGRAMS	6	38	36	4	40	Ø	0	123
TOTAL	6	71	108	56	122	0	30	391

### SERVICE TO GOVERNMENT CABINET COMMITTEE FEDERAL PERSONNEL ENGAGED IN SCIENTIFIC ACTIVITIES BY CATEGORY, BY ACTIVITY, 1979-82

ACTIVITY	EXECUTIVE	SCIENTIFIC & PROFESSIONAL	ADMINISTR. 3 FOREIGN SERV.	TECHN ICAL	ADMINISTR. SUPFORT	OFERATIONAL	MILITARY	TOTAL
1979-80	an and had and any set and out of the lot of the set of the set	ann ann hair hair ean ann ann suit ann ann ann ann ann ann ann ann ann an						
INTRAMURAL R&D	6	178	49	54	95	3	Ø	292
INTRAMURAL RSA	61	875	907	731	2, 468	42	Ø	5,083
ADMIN. OF EXTEAMURAL PEOGRAMS	0	i	Ø	Ø	1	Ø	Ø	2
TOTAL	67	1,054	956	785	2,564	45	Ø	5,470
1280-81								
INTRAMURAL F&D	5	141	37	50	76	2	0	311
INTEGMURAL ESA	71	878	1,003	724	2,464	62	Ø	5,202
PEMIN, OF EXTEAMURAL PROGRAMS	0	- 1	0	Ø	1	Ø	0	2
TOTAL	76	1,019	1,040	774	2,541	64		5,514
1981-82								
INTRAMURAL R&D	5	144	42	58	63	2	0	314
INTRAMURAL RSA	71	912	1,083	768	3, 176	85	8	6,095
ADMIN. OF EXTRAMURAL PROGRAMS	0	1	Ø	Ø	1	Ø	Ø	2
TOTAL	76	1,056	1, 125	826	3,240	87	0	6, 410

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#### SCOPE AND LIMITATIONS OF DATA

The figures reported in this document are federal budgetary expenditures on scientific activities as reported by departments and agencies in surveys at the time submissions are made for Main Estimates. While it is known that there are other indirect or "non-program" costs incurred in the conduct of these activities they are not normally part of the specific departmental program to which the science expenditures refer. These "non-program" costs may be services provided by other departments, accommodation costs, or the portion of overall administration program costs that are attributable to scientific activities.

Depending on the purposes of one's analysis, these non-program costs can be included or not. Especially in the areas of budgetary analysis it may be preferable to deal with direct program expenditures only. This is necessary to provide a consistent base for the comparison of expenditures in scientific and technological (S&T) activities with other types of expenditures in the federal sector. The application of non-program costs from administration programs for example, if done for S&T activities, would necessitate parallel adjustments to the other areas as reported in the budgetary process. For the purpose of these sorts of analysis this publication presents expenditures that do not include non-program costs.

If one's purpose is to determine the magnitude of fedeal S&T activities and relate this information to that of other sectors or other countries, then it is preferable to include non-program costs. In this context the sum of direct expenditures plus non-program costs represents the "total" cost of the federal scientific and technological effort. With appropriate caution, this figure may be compared to the total spent in industry where all costs direct and indirect may be reported. For just such analyses, among others, Statistics Canada publishes, The Annual Review of Science Statistics (Cat. No. 13-212), and reports in various numbers of the Service Bulletin (Cat. No. 13-003). The intramural expenditures reported in these will thus be greater than in this publication by the amount of non-program costs. The extramural expenditures are not affected and will be the same in both sets of publications. The total figure for intramural plus extramural expenditures naturally will differ in these two series of publications by the amount of non-program costs.

Departments and agencies are requested to identify the resources reported in their Main Estimates submissions that are to be applied to scientific and technological activities in the natural and human sciences. The basic reporting unit is the budgetary program.

Definitions of, and explanatory notes on, natural sciences, human sciences, scientific and technological activities, performance sectors, and other terms used in the publication are given below.

The natural sciences consist of disciplines concerned with understanding, exploring, developing or utilizing the natural world. Included are the engineering, mathematical, life and physical sciences.

The term <u>human sciences</u> is to be regarded as synonymous with social sciences and humanities and thus embraces all disciplines involving the study of human actions and conditions and the social, economic and institutional mechanisms affecting humans. The human sciences include such disciplines as anthropology, business administration and commerce, communications, criminology, 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.

For some programs it will be difficult to distinguish between the natural and human sciences. However, some allocation must be made and in determining this allocation, the respondent was advised to consider the dominant orientation of the projects and the area of expertise of the personnel involved.

#### NATURAL SCIENCE ACTIVITIES

Actual and planned expenditures on scientific and technological activities are classified according to the type of scientific activity and the performance sector in which the activities were or will be conducted.

Scientific and technological activities involve the generation, dissemination and initial application of scientific and technological knowledge. The two main categories are research and experimental development (R&D) and related scientific activities (RSA). In the natural sciences, the RSA group includes scientific data collection, scientific information services, testing and standardization, feasibility studies, education support, and museum services. Such activities are related to research and generally complement and extend R&D. Expenditures on construction, acquisition or preparation of land, buildings, machinery and equipment are capital expenditures. All other expenditures are current expenditures.

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 knowledge.

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. However, an R&D project 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.

In-house R&D - R&D performed by personnel of the reporting program. It may include R&D carried out on behalf of another program on a cost recovery basis.

<u>R&D contracts</u> - payments to organizations or individuals outside the federal government for the conduct of R&D by the recipient or to provide support for the federal government's in-house R&D program.

- a) <u>R&D Contracts</u> contracts to an outside institution or individual to fund R&D <u>performed</u> by the isntitution or individual. The criterion is: would the performer report the contract as intramural government-funded R&D if asked?
- b) <u>Supporting contracts</u> contracts to an outside institution or individual to provide goods or services necessary to support the in-house R&D program. Examples are contracts with data processing firms for computing services, maintenance contracts for R&D facilities, or procurement contracts for specialized equipment which is not considered capital.

Contracts for related scientific activities (RSA) are reported for the appropriate activity and performance sector.

<u>R&D grants and contributions</u> - awards to organizations or individuals for the conduct of R&D and intended to benefit the recipients rather than provide the program with goods, services or information. These funds are normally identical to that portion of the budgetary "grants and contributions" line object of expenditure which is devoted to R&D activities.

Grants and contributions for related scientific activities (RSA) are reported in the appropriate activity and performance sector.

Research fellowships - awards to individuals for advances in research training and experience. 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 rsults 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, hydrogaphic, 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. General purpose grants to educational institutions are excluded. The activity includes the support of foreign students in their studies of S&T at Canadian or foreign institutions.

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

<u>Museum services</u> - 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 is 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, e.g., R&D or RSA.

### HUMAN SCIENCE ACTIVITIES

Actual and planned expenditures on scientific and technological activities are classified according to the type of scientific activity and the performance sector in which the activities were or will be conducted.

Scientific and technological activities involve the generation, dissemination and initial application of scientific and technological knowledge. The two main categories are research and experimental development (R&D) and related scientific activities (RSA). In the human sciences, the RSA group includes general purpose data collection, information services, economic and feasibility studies, operations and policy studies, education support, and museum services. Such activities are related to research and generally complement and extend R&D.

Expenditures on construction, acquisition or preparation of land, buildings, machinery and equipment are capital expenditures. All other expenditures are current expenditures.

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.
- 4. 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.

In-house R&D - R&D performed by personnel of the reporting program. It may include R&D carried out on behalf of another program on a cost recovery basis.

<u>R&D contracts</u> - payments to organizations or individuals outside the federal government for the conduct of R&D by the recipient or to provide support for the federal government's in-house R&D program.

- a) <u>R&D Contracts</u> contracts to an outside institution or individual to fund R&D <u>performed</u> by the institution or individual. The criterion is: would the performer report the contract as intramural government-funded R&D if asked?
- b) <u>Supporting contracts</u> contracts to an outside institution or individual to provide goods or services necessary to support the in-house R&D program. Examples are contracts with data processing firms for computing services, maintenance contracts for R&D facilities, or procurement contracts for specialized equipment which is not considered capital.

Contracts for related scientific activities (RSA) are reported for the appropriate activity and performance sector.

<u>R&D grants and contributions</u> - awards to organizations or individuals for the conduct of R&D and intended to benefit the recipients rather than provide the program with goods, services or information. These funds are normally identical to that portion of the budgetary "grants and contributions" line object of expenditure which is devoted to R&D activities.

Grants and contributions for related scientific activities (RSA) are reported in the appropriate activity and performance sector.

Research fellowships - awards to individuals for advanced research training and experience. 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 costbenefit 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.

<u>Museum services</u> - 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.

#### PERFORMERS

The <u>performer</u> is the sector in which the planned scientific activity will be conducted. The basic distinction is between intramural and extramural performance. Extramural payments are classified on the basis of the performance sectors to which they are made. The six extramural performers selected are Canadian industry, Canadian universities, Canadian nonprofit 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.

<u>Canadian universities</u> - including affiliated institutes owned, administered or staffed by universities.

<u>Canadian non-profit institutions</u> - 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 agencies of these governments. Government enterprises, such as provincial utilities are included in the Canadian industry sector, and hospitals in the Canadian nonprofit 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 or municipal governments, provincial research councils and foundations.



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#### PERSONNEL CATEGORIES

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Intramural expenditures are supported by data on the number of person-years devoted to scientific and technological activities by all the employees engaged in these activities.

Person-years - a measure of the time actually devoted to the conduct of scientific activities. An employee who is engaged in scientific activities for half a year has a person-year equivalence of 0.5.

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 and close up operation; secretarial, stenographic, typing, and telephone operation.
- Operational: groups engaged in the performance of a craft or of unskilled work. If 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.