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1980-81

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Federal Scientific Establishments, 1980-81

This is a list of all federal establishments engaged in activities in the natural sciences and engineering as reported in mid-1981 by departments and agencies of the Federal Government. A scientific establishment is considered to be a unit or group of units, with a budget and at one location, which performs scientific activities.

The sum of the expenditures of the establishments may not equal the total federal intramural scientific expenditures reported in publications of Statistics Canada or the Ministry of State for Science and Technology. However, they should be a reasonable approximation.

This type of listing is meant to serve as an updated inventory base facilitating future surveys, detailed studies or other projects (e.g., directories of scientific establishments, regional scientific activities, etc.). Statistics on the regional performance of scientific activities by other sectors are sometimes available from the Centre.

We would be grateful for notification of errors and omissions, as well as suggestions concerning the questionnaire. The form used in 1981 is reproduced at the end of the listing.

Please forward any comments to:

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ABBREVIATIONS

Departments:

AGR - Agriculture
AECB - Atomic Energy Control Board
AECL - Atomic Energy of Canada Limited
CCA - Consumer and Corporate Affairs
CIDA - Canadian International Development Agency
CMHC - Canada Mortgage and Housing Corporation
COMM - Communications
EMR - Energy, Mines and Resources
ENV - Environment
F & O - Fisheries and Oceans
IAND - Indian Affairs and Northern Development
IDRC - International Development Research Centre
ITC - Industry, Trade and Commerce
MRC - Medical Research Council
ND - National Defence
NEB - National Energy Board
NFB - National Film Board
NHW - National Health and Welfare
NM - National Museums
NRC - National Research Council
NSERC - Natural Sciences and Engineering Research Council
PW - Public Works
SLSA - St. Lawrence Seaway Authority
TPT - Transport

Scientific Activities:

R & D - Research and Development
RSA - Related Scientific Activities

TABLE 1. Federal Natural Science Establishments, Staff and Expenditures by Region, 1980-81

Province	Staff			Intramural scientific expenditures		
	Scientific & professional person-years	Other	Total	Current	Capital	Total
					\$000,000	
Yukon and Northwest Territories	18	6	24	1	--	1
British Columbia	457	1,180	1,637	65	7	72
Alberta	408	860	1,268	44	5	49
Saskatchewan	196	507	703	24	2	26
Manitoba	409	1,100	1,509	56	4	60
Ontario (excluding Ottawa)	1,427	2,941	4,368	150	16	166
Quebec (excluding Hull)	372	1,128	1,500	51	8	59
New Brunswick	105	282	387	24	1	25
Nova Scotia	399	1,104	1,503	57	10	67
Prince Edward Island	19	77	96	3	--	3
Newfoundland	101	194	295	16	1	17
National Capital Region	3,583	6,071	9,654	401	43	444
TOTAL	7,494	15,450	22,944	892	98	990

TABLE 2.1 Staff of Federal Natural Science Establishments, by Department or Agency and by Region, 1980-81

Department or agency	Yukon and N.W.T.	B.C.	Alberta	Sask.	Man.	Ontario (excl. Ottawa)	Québec (excl. Hull)	N.B.	N.S.	P.E.I.	Nfld.	N.C.R.	Total
person-years													
AGR	-	287	472	392	348	345	339	140	147	95	35	1,332	3,932
AECB	-	-	-	-	-	-	-	-	-	-	-	7	7
AECL	-	-	-	-	711	1,661	-	-	-	-	-	-	2,372
CCA	-	-	-	-	-	-	-	-	-	-	-	386	386
CIDA	-	-	-	-	-	-	-	-	-	-	-	16	16
CMHC	-	-	-	-	-	-	-	-	-	-	-	39	39
COMM	-	-	-	-	-	-	-	-	-	-	-	559	559
EMR	6	66	183	4	1	25	-	-	100	-	1	1,859	2,245
ENV	16	502	433	192	279	1,761	357	134	270	-	56	383	4,383
F & O	-	521	-	-	145	214	40	113	677	-	202	270	2,182
LAND	2	-	-	-	-	-	-	-	-	-	-	50	52
IDRC	-	-	-	-	-	-	-	-	-	-	-	62	62
ITC	-	-	-	-	-	-	-	-	-	-	-	162	162
MRC	-	-	-	-	-	-	-	-	-	-	-	39	39
ND	-	139	177	-	-	245	626	-	210	-	-	468	1,865
NEB	-	-	-	-	-	-	-	-	-	-	-	43	43
NFB	-	-	-	-	-	-	10	-	-	-	-	-	10
NHW	-	25	3	-	22	77	51	-	15	-	-	721	914
NM	-	-	-	-	-	-	-	-	-	-	-	327	327
NRC	-	97	-	115	3	40	39	-	84	1	1	2,755	3,135
NSERC	-	-	-	-	-	-	-	-	-	-	-	75	75
PW	-	-	-	-	-	-	-	-	-	-	-	63	63
SLSA	-	-	-	-	-	-	-	-	-	-	-	18	18
TPT	-	-	-	-	-	-	38	-	-	-	-	20	58
TOTAL	24	1,637	1,268	703	1,509	4,368	1,500	387	1,503	96	295	9,654	22,944

TABLE 2.2 Intramural Scientific Expenditures of Federal Natural Science Establishments, by Department or Agency, and by Region, 1980-81

Department or agency	Yukon and N.W.T.	B.C.	Alberta	Sask.	Man.	Ontario (excl. Ottawa)	Québec (excl. Hull)	N.B.	N.S.	P.E.I.	Nfld.	N.C.R.	Total
\$000,000													
AGR	-	10	17	13	12	12	12	5	9	3	1	46	140
AECB	-	-	-	-	-	-	-	-	-	-	-	-	-
AECL	-	-	-	-	27	48	-	-	-	-	-	-	75
CCA	-	-	-	-	-	-	-	-	-	-	-	15	15
CIDA	-	-	-	-	-	-	-	-	-	-	-	1	1
CMHC	-	-	-	-	-	-	-	-	-	-	-	2	2
COMM	-	-	-	-	-	-	-	-	-	-	-	41	41
EMR	-	3	8	1	-	1	-	-	6	-	-	91	110
ENV	-	22	16	7	12	83	13	4	9	-	2	18	186
F & O	-	26	-	-	6	10	3	17	30	-	13	6	111
IAND	-	-	-	-	-	-	-	-	-	-	-	2	2
IDRC	-	-	-	-	-	-	-	-	-	-	-	3	3
ITC	-	-	-	-	-	-	-	-	-	-	-	6	6
MRC	-	-	-	-	-	-	-	-	-	-	-	2	2
ND	-	6	9	-	-	9	24	-	8	-	-	16	72
NEB	-	-	-	-	-	-	-	-	-	-	-	1	1
NFB	-	-	-	-	-	-	1	-	-	-	-	-	1
NHW	-	1	-	-	1	2	1	-	-	-	-	26	32
NM	-	-	-	-	-	-	-	-	-	-	-	15	15
NRC	-	4	-	5	2	1	4	-	4	-	-	138	160
NSERC	-	-	-	-	-	-	-	-	-	-	-	3	3
PW	-	-	-	-	-	-	-	-	-	-	-	4	4
SLSA	-	-	-	-	-	-	-	-	-	-	-	-	-
TPT	-	-	-	-	-	-	1	-	-	-	-	7	8
TOTAL	1	72	49	26	60	166	59	25	67	3	17	444	990

-- Amount too small to be expressed.

TABLE 3.1 Federal Natural Science Establishments in the Yukon and Northwest Territories, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
ENERGY, MINES & RESOURCES	-	6	6	0.3	-	0.3		100
<u>Minerals & Earth Sciences</u>	-	6	6	0.3	-	0.3		100
Alert	-	1	1	0.1	-	0.1		100
Mould Bay	-	1	1	0.1	-	0.1		100
Resolute	-	1	1	0.1	-	0.1		100
Yellowknife	-	3	3	0.1	-	0.1		100
ENVIRONMENT	16	-	16	0.6	--	0.6	25	75
<u>Environment Conservation</u>	16	-	16	0.6	--	0.6	25	75
Yellowknife	16	-	16	0.6	--	0.6	25	75
INDIAN AFFAIRS & NORTHERN DEVELOPMENT	2	-	2	0.1	--	0.1	100	
Igloolik	1	-	1	--	--	--	100	
Inuvik	1	-	1	--	--	--	100	
TOTAL	18	6	24	1.0	--	1.0	25	75

TABLE 3.2 Federal Natural Science Establishments in British Columbia, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional person-years	Other	Total	Current \$000,000	Capital	Total	R & D %	R.S.A.
AGRICULTURE	74	213	287	9.5	0.8	10.3	99	1
<u>Administration</u>	4	1	5	--	-	--		100
Summerland	1	-	1	--	-	--		100
Sidney	1	-	1	--	-	--		100
Vancouver	2	1	3	--	-	--		100
<u>Research</u>	69	211	280	9.4	0.8	10.2	100	
Agassiz	13	45	58	2.0	0.1	2.1	100	
Kamloops	6	23	29	0.9	--	1.0	100	
Prince George	2	13	15	0.4	--	0.4	100	
Sidney	7	22	29	0.9	0.2	1.1	100	
Summerland	23	71	94	3.1	0.2	3.3	100	
Vancouver	18	37	55	2.1	0.2	2.3	100	
<u>Food Regulation & Inspection</u>	1	1	2	0.1	--	0.1	100	
Vancouver	1	1	2	0.1	--	0.1	100	
ENERGY, MINES & RESOURCES	36	30	66	2.5	0.2	2.7	75	25
<u>Minerals & Earth Sciences</u>	36	30	66	2.5	0.2	2.7	75	25
Penticton	-	1	1	--	-	--		100
Sidney	12	9	21	0.6	0.1	0.7	50	50
Vancouver	24	20	44	1.9	0.1	2.0	85	15

TABLE 3.2 Federal Natural Science Establishments in British Columbia, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional person-years	Other	Total	Current \$000,000	Capital	Total	R & D %	R.S.A.
ENVIRONMENT	155	347	502	21.0	0.8	21.8	17	83
<u>Atmospheric Environment</u>	37	157	194	11.4	0.1	11.4		100
Vancouver	37	157	194	11.4	0.1	11.4		100
<u>Environment Conservation</u>	53	79	132	4.8	0.6	5.4	8	92
Vancouver	23	73	96	3.3	0.5	3.8	11	89
Delta	30	6	36	1.6	0.1	1.7		100
<u>Canadian Forestry Services</u>	59	111	170	4.6	0.1	4.7	70	30
Victoria	59	111	170	4.6	0.1	4.7	70	30
<u>Parks Canada</u>	6	-	6	0.2	--	0.2		100
Pacific Rim	2	-	2	0.1	-	0.1		100
Kootenay	2	-	2	0.1	-	0.1		100
Mt. Revelstoke	1	-	1	--	--	--		100
Yoho	1	-	1	--	--	--		100
FISHERIES & OCEANS	86	435	521	23.4	2.8	26.2	43	57
Nanaimo	30	150	180	8.9	0.3	9.2	40	60
Sidney	40	253	293	13.2	2.4	15.6	45	55
West Vancouver	8	12	20	0.7	0.1	0.8	45	55
Vancouver	8	20	28	0.6	--	0.6	50	50

TABLE 3.2 Federal Natural Science Establishments in British Columbia, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - concluded

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional person-years	Other	Total	Current \$000,000	Capital	Total	R & D %	R.S.A.
NATIONAL DEFENCE	54	85	139	4.6	1.8	6.4	100	
Esquimalt	54	85	139	4.6	1.8	6.4	100	
NATIONAL HEALTH & WELFARE	11	14	25	0.7	--	0.7		100
<u>Health Protection</u>	11	14	25	0.7	--	0.7		100
Vancouver	11	14	25	0.7	--	0.7		100
NATIONAL RESEARCH COUNCIL	41	56	97	3.7	0.5	4.2	96	4
<u>Scientific & Industrial Research</u>	41	56	97	3.7	0.5	4.2	96	4
Penticton	11	10	21	0.8	0.1	0.9	100	
Revelstoke	1	2	3	0.1	--	0.1	100	
Vancouver	6	15	21	0.7	0.2	0.9	80	20
Victoria	23	29	52	2.1	0.2	2.3	100	
TOTAL	457	1,180	1,637	65.4	6.9	72.3	53	47

TABLE 3.3 Federal Natural Science Establishments in Alberta, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	106	366	472	16.0	0.5	16.5	99	1
<u>Administration</u>	2	2	4	0.1	-	0.1		100
Lethbridge	2	2	4	0.1	-	0.1		100
<u>Research</u>	98	345	443	15.2	0.5	15.7	100	
Beaverlodge	11	46	57	1.7	0.1	1.8	100	
Fort Vermillion	1	9	10	0.3	-	0.3	100	
Lacombe	18	70	88	3.2	0.1	3.3	100	
Lethbridge	68	220	288	10	0.3	10.3	100	
<u>Food Regulation & Inspection</u>	6	19	25	0.7	--	0.8	100	
Lethbridge	6	19	25	0.7	--	0.8	100	
ENERGY, MINES & RESOURCES	93	90	183	7.4	0.4	7.8	87	13
<u>Minerals & Earth Sciences</u>	93	90	183	7.4	0.4	7.8	87	13
Calgary	82	77	159	6.7	0.1	6.8	86	14
Meanook	1	-	1	--	-	--		100
Priddis	1	1	2	0.1	-	0.1	10	90
Sherwood Park	9	12	21	0.6	0.3	0.9	100	

TABLE 3.3 Federal Natural Science Establishments in Alberta, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - concluded

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
ENVIRONMENT	157	276	433	15.5	0.4	15.9	34	66
<u>Atmospheric Environment</u>	66	206	272	9.8	0.1	9.9		100
Edmonton	66	206	272	9.8	0.1	9.9		100
<u>Environment Conservation</u>	36	-	36	1.5	--	1.5	75	25
Edmonton	36	-	36	1.5	--	1.5	75	25
<u>Canadian Forestry Services</u>	47	70	117	4.0	0.3	4.3	100	
Edmonton	47	70	117	4.0	0.3	4.3	100	
<u>Parks Canada</u>	8	-	8	0.2	-	0.2		100
Banff	4	-	4	0.1	-	0.1		100
Elk Island	1	-	1	--	-	--		100
Jasper	1	-	1	--	-	--		100
Waterton	2	-	2	0.1	-	0.1		100
NATIONAL DEFENCE	50	127	177	5.4	3.5	8.9	100	
Ralston	50	127	177	5.4	3.5	8.9	100	
NATIONAL HEALTH & WELFARE	2	1	3	0.1	-	0.1	100	
<u>Medical Services</u>	2	1	3	0.1	-	0.1	100	
Edmonton	2	1	3	0.1	-	0.1	100	
TOTAL	408	860	1,268	44.4	4.8	49.2	76	24

TABLE 3.4 Federal Natural Science Establishments in Saskatchewan, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	95	297	392	12.2	0.7	12.9	99	1
<u>Administration</u>	3	2	5	0.1	-	0.1		100
Regina	-	1	1	--	-	--		100
Saskatoon	2	1	3	--	-	--		100
Swift Current	1	-	1	--	-	--		100
<u>Research</u>	89	295	384	11.8	0.7	12.5	100	
Indian Head	2	21	23	0.5	--	0.5	100	
Melfort	8	39	47	1.4	0.1	1.5	100	
Regina	14	36	50	1.5	0.1	1.6	100	
Saskatoon	39	102	141	4.7	0.4	5.1	100	
Swift Current	26	97	123	3.7	0.1	3.8	100	
<u>Food Regulation & Inspection</u>	3	-	3	0.2	--	0.2	100	
Saskatoon	3	-	3	0.2	--	0.2	100	
ENERGY, MINES & RESOURCES	-	4	4	0.5	0.3	0.8	100	
<u>Minerals & Earth Sciences</u>	-	4	4	0.5	0.3	0.8	100	
Prince Albert	-	4	4	0.5	0.3	0.8	100	

TABLE 3.4 Federal Natural Science Establishments in Saskatchewan, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - concluded

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional person-years	Other	Total	Current \$000,000	Capital	Total	R & D %	R.S.A.
ENVIRONMENT	54	138	192	6.4	0.7	7.1	18	82
<u>Environment Conservation</u>	54	138	192	6.4	0.7	7.1	18	82
Regina	32	134	166	5.4	0.6	6.0	4	96
Saskatoon	20	2	22	0.8	—	0.8	100	
Webb	2	2	4	0.2	—	0.2	100	
NATIONAL RESEARCH COUNCIL	47	68	115	4.6	0.4	5.0	92	8
<u>Scientific & Industrial Research</u>	47	68	115	4.6	0.4	5.0	92	8
Saskatoon	47	68	115	4.6	0.4	5.0	92	8
TOTAL	196	507	703	23.7	2.1	25.8	75	25

TABLE 3.5 Federal Natural Science Establishments in Manitoba, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	92	256	348	11.3	0.7	12.0	85	15
<u>Administration</u>	2	2	4	0.1	-	0.1		100
Winnipeg	2	2	4	0.1	-	0.1		100
<u>Canadian Grain Commission</u>	17	67	84	2.8	0.1	2.9	48	52
Winnipeg	17	67	84	2.8	0.1	2.9	48	52
<u>Research</u>	73	186	259	8.4	0.6	9.0	100	
Brandon	15	67	82	2.7	0.3	3.0	100	
Morden	15	44	59	1.7	0.1	1.8	100	
Winnipeg	43	75	118	4.0	0.2	4.2	100	
<u>Food Regulation & Inspection</u>	-	1	1	--	-	--	100	
Winnipeg	-	1	1	--	-	--	100	
ATOMIC ENERGY OF CANADA LTD.	208	503	711	24.1	2.9	27.0	94	6
Pinawa	208	503	711	24.1	2.9	27.0	94	6
ENERGY, MINES & RESOURCES	-	1	1	--	-	--		100
<u>Minerals & Earth Sciences</u>	-	1	1	--	-	--		100
Flin Flon	-	1	1	--	-	--		100

TABLE 3.5 Federal Natural Science Establishments in Manitoba, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - concluded

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
ENVIRONMENT	54	225	279	11.9	0.1	12.0		100
<u>Atmospheric Environment</u>	47	225	272	11.6	0.1	11.7		100
Winnipeg	47	225	272	11.6	0.1	11.7		100
<u>Environment Conservation</u>	7	-	7	0.3	--	0.3		100
Winnipeg	7	-	7	0.3	--	0.3		100
FISHERIES & OCEANS	45	100	145	5.6	0.4	6.0	45	55
Winnipeg	45	100	145	5.6	0.4	6.0	45	55
NATIONAL HEALTH & WELFARE	9	13	22	0.6	--	0.6		100
<u>Health Protection</u>	9	13	22	0.6	--	0.6		100
Winnipeg	9	13	22	0.6	--	0.6		100
NATIONAL RESEARCH COUNCIL	1	2	3	1.9	0.2	2.1	98	2
<u>Scientific & Industrial Research</u>	1	2	3	1.9	0.2	2.1	98	2
Gimli	-	-	-	1.8	0.2	2.0	100	
Thompson	-	1	1	--	-	--	100	
Winnipeg	1	1	2	0.1	-	0.1		100
TOTAL	409	1,100	1,509	55.4	4.3	59.7	68	32

TABLE 3.6 Federal Natural Science Establishments in Ontario (excluding Ottawa), Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	88	257	345	11.4	0.7	12.1	99	1
<u>Administration</u>	3	2	5	0.1	--	0.1		100
Harrow	1	--	1	--	--	--		100
London	2	1	3	0.1	--	0.1		100
Vineland	--	1	1	--	--	--		100
<u>Research</u>	85	255	340	11.3	0.7	12.0	100	
Delhi	10	31	41	1.4	0.1	1.5	100	
Harrow	29	86	115	3.8	0.3	4.1	100	
Kapuskasing	1	24	25	0.7	0.1	0.8	100	
London	27	49	76	2.6	0.1	2.7	100	
Thunder Bay	--	6	6	0.2	--	0.2	100	
Trenton	3	18	21	0.6	--	0.6	100	
Vineland Station	15	41	56	2.0	0.1	2.1	100	
ATOMIC ENERGY OF CANADA LTD.	435	1,226	1,661	43.2	4.5	47.7	95	5
Chalk River	435	1,226	1,661	43.2	4.5	47.7	95	5

TABLE 3.6 Federal Natural Science Establishments in Ontario (excluding Ottawa), Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional person-years	Other	Total	Current \$000,000	Capital	Total	R & D %	R.S.A.
ENERGY, MINES & RESOURCES	16	9	25	0.9	--	0.9	100	
<u>Minerals & Earth Sciences</u>	16	9	25	0.9	--	0.9	100	
Elliot Lake	16	9	25	0.9	--	0.9	100	
ENVIRONMENT	743	1,018	1,761	75.2	7.5	82.7	26	74
<u>Atmospheric Environment</u>	451	705	1,156	57.5	5.7	63.2	9	91
Toronto	38	136	174	5.1	0.1	5.2		100
Downsview	413	569	982	52.4	5.6	58.0	10	90
<u>Environment Conservation</u>	155	88	243	8.9	0.9	9.9	81	19
Burlington	155	88	243	8.9	0.9	9.9	81	19
<u>Environment Protection</u>	38	95	133	1.7	0.5	2.2	80	20
Burlington	38	95	133	1.7	0.5	2.2	80	20
<u>Canadian Forestry Services</u>	99	130	229	7.0	0.4	7.4	75	25
Chalk River	23	5	28	0.9	0.2	1.1	75	25
Saulte Ste. Marie	76	125	201	6.2	0.2	6.3	75	25
FISHERIES & OCEANS	45	169	214	9.5	0.8	10.3	45	55
Burlington	45	169	214	9.5	0.8	10.3	45	55

TABLE 3.6 Federal Natural Science Establishments in Ontario (excluding Ottawa), Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - concluded

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
NATIONAL DEFENCE	55	190	245	6.6	2.0	8.6	100	
Downsview	55	190	245	6.6	2.0	8.6	100	
NATIONAL HEALTH & WELFARE	35	42	77	2.4	--	2.4		100
<u>Health Protection</u>	31	41	72	2.1	--	2.1		100
Scarborough	31	41	72	2.1	--	2.1		100
<u>Medical Services</u>	4	1	5	0.3	--	0.3	100	
Downsview	4	1	5	0.3	--	0.3	100	
NATIONAL RESEARCH COUNCIL	10	30	40	1.4	0.1	1.5	82	18
<u>Scientific & Industrial Research</u>	10	30	40	1.4	0.1	1.5	82	18
Don Mills	3	1	4	0.2	-	0.2		100
Kingston	1	-	1	--	-	--		100
Lake Traverse	1	23	24	0.9	0.1	1.0	100	
London	1	-	1	--	-	--		100
Thorold	1	-	1	--	-	--		100
Toronto	3	6	9	0.2	--	0.2	100	
TOTAL	1,427	2,941	4,368	150.6	15.6	166.2	57	43

TABLE 3.7 Federal Natural Science Establishments in Quebec (excluding Hull), Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	71	268	339	10.7	0.8	11.5	99	1
<u>Administration</u>	2	1	3	0.1	-	0.1		100
Ste Foy	1	1	2	0.1	-	0.1		100
St-Jean	1	-	1	--	-	--		100
<u>Research</u>	69	267	336	10.6	0.8	11.4	100	
Kamouraska	4	35	39	1.1	--	1.1	100	
L'Assomption	5	25	30	0.8	0.1	0.9	100	
Lennoxville	13	70	83	2.6	0.2	2.8	100	
Normandin	2	23	25	0.6	0.1	0.7	100	
Québec	1	16	17	0.6	0.1	0.7	100	
Ste Foy	24	51	75	2.8	0.1	2.9	100	
St-Jean	20	47	67	2.1	0.2	2.3	100	

TABLE 3.7 Federal Natural Science Establishments in Quebec (excluding Hull), Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
ENVIRONMENT	91	266	357	12.5	0.5	13.0	23	77
<u>Environment Conservation</u>	16	15	31	0.9	--	0.9		100
Ste -Foy	16	15	31	0.9	--	0.9		100
<u>Atmospheric Environment</u>	38	168	206	7.8	0.2	8.1		100
Ville St Laurent	38	168	206	7.8	0.2	8.1		100
<u>Canadian Forestry Services</u>	37	83	120	3.8	0.2	4.0	75	25
Ste -Foy	37	83	120	3.8	0.2	4.0	75	25
FISHERIES & OCEANS	15	25	40	2.6	0.3	2.9	45	55
Ste Anne de Bellevue	15	25	40	2.6	0.3	2.9	45	55
NATIONAL DEFENCE	133	493	626	19.3	4.8	24.1	100	
Courcellette	133	493	626	19.3	4.8	24.1	100	
NATIONAL HEALTH & WELFARE	23	28	51	1.5	--	1.5		100
<u>Health Protection</u>	23	28	51	1.5	--	1.5		100
Longueuil	23	28	51	1.5	--	1.5		100

TABLE 3.7 Federal Natural Science Establishments in Quebec (excluding Hull), Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - concluded

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
NATIONAL FILM BOARD	2	8	10	0.5	--	0.6	75	25
Montreal	2	8	10	0.5	--	0.6	75	25
NATIONAL RESEARCH COUNCIL	23	16	39	2.2	1.9	4.1	83	17
<u>Scientific & Industrial Research</u>	23	16	39	2.2	1.9	4.1	83	17
Montreal	20	15	35	2.0	1.9	3.9	88	12
Quebec	3	1	4	0.1	-	0.1		100
TRANSPORT	14	24	38	1.1	-	1.1	61	39
<u>Administration</u>	14	24	38	1.1	-	1.1	61	39
Montreal	14	24	38	1.1	-	1.1	61	39
TOTAL	372	1,128	1,500	50.4	8.3	58.8	75	25

TABLE 3.8 Federal Natural Science Establishments in New Brunswick, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	29	111	140	4.4	0.3	4.7	98	2
<u>Administration</u>	2	1	3	0.1	-	0.1		100
Fredericton	2	1	3	0.1	-	0.1		100
<u>Research</u>	26	108	134	4.2	0.3	4.5	100	
Buctouche	3	5	8	0.2	0.1	0.3	100	
Fredericton	23	103	126	4.0	0.2	4.2	100	
<u>Food Regulation & Inspection</u>	1	2	3	0.1	--	0.1	100	
Sackville	1	2	3	0.1	--	0.1	100	
ENVIRONMENT	39	95	134	3.8	0.1	3.9	64	36
<u>Canadian Forestry Services</u>	39	95	134	3.8	0.1	3.9	64	36
Fredericton	39	95	134	3.8	0.1	3.9	64	36
FISHERIES & OCEANS	37	76	113	15.4	1.1	16.5	60	40
St. Andrews	37	76	113	15.4	1.1	16.5	60	40
TOTAL	105	282	387	23.6	1.5	25.1	68	32

TABLE 3.9 Federal Natural Science Establishments in Nova Scotia, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	34	113	147	4.8	4.4	9.2	99	1
<u>Administration</u>	1	1	2	--	-	--		100
Kentville	1	1	2	--	-	--		100
<u>Research</u>	33	112	145	4.8	4.4	9.2	100	
Halifax	1	-	1	0.1	--	0.1	100	
Kentville	29	82	111	3.7	4.4	8.1	100	
Nappan	3	30	33	1.0	--	1.0	100	
ENERGY, MINES & RESOURCES	51	49	100	4.9	1.1	6.0	85	15
<u>Minerals & Earth Sciences</u>	51	49	100	4.9	1.1	6.0	85	15
Dartmouth	48	49	97	4.8	1.1	5.9	85	15
Sydney	3	-	3	0.1	-	0.1	100	
ENVIRONMENT	56	214	270	8.9	0.2	9.1		100
<u>Atmospheric Environment</u>	49	185	234	7.9	0.1	8.0		100
Bedford	49	185	234	7.9	0.1	8.0		100
<u>Environment Conservation</u>	7	29	36	1.0	0.1	1.1	1	99
Halifax	7	29	36	1.0	0.1	1.1	1	99

TABLE 3.9 Federal Natural Science Establishments in Nova Scotia, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - concluded

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
FISHERIES & OCEANS	145	532	677	28.0	2.3	30.3	44	56
Dartmouth	122	496	618	25.2	2.2	27.4	45	55
Halifax	23	36	59	2.8	0.1	2.9	40	60
NATIONAL DEFENCE	66	144	210	6.2	1.7	7.9	100	
Dartmouth	66	144	210	6.2	1.7	7.9	100	
NATIONAL HEALTH & WELFARE	6	9	15	0.4	--	0.4		100
<u>Health Protection</u>	6	9	15	0.4	--	0.4		100
Halifax	6	9	15	0.4	--	0.4		100
NATIONAL RESEARCH COUNCIL	41	43	84	3.9	0.3	4.2	96	4
<u>Scientific & Industrial Research</u>	41	43	84	3.9	0.3	4.2	96	4
Halifax	41	43	84	3.9	0.3	4.2	96	4
TOTAL	399	1,104	1,503	57.1	10.0	67.1	59	41

TABLE 3.10 Federal Natural Science Establishments in Prince Edward Island, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	19	76	95	3.0	0.1	3.1	99	1
<u>Administration</u>	1	1	2	--	-	--		100
Charlottetown	1	1	2	--	-	--		100
<u>Research</u>	18	75	93	3.0	0.1	3.1	100	
Charlottetown	18	75	93	3.0	0.1	3.1	100	
NATIONAL RESEARCH COUNCIL	-	1	1	--	-	--		100
<u>Scientific & Industrial Research</u>	-	1	1	--	-	--		100
Charlottetown	-	1	1	--	-	--		100
TOTAL	19	77	96	3.0	0.1	3.1	99	1

TABLE 3.11 Federal Natural Science Establishments in Newfoundland, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	6	29	35	1.0	—	1.1	100	
<u>Research</u>	6	29	35	1.0	—	1.1	100	
St. John's	6	29	35	1.0	—	1.1	100	
ENERGY, MINES & RESOURCES	1	—	1	0.2	0.1	0.3	100	
<u>Minerals & Earth Sciences</u>	1	—	1	0.2	0.1	0.3	100	
Shoe Cove	1	—	1	0.2	0.1	0.3	100	
ENVIRONMENT	25	31	56	1.6	0.1	1.6	70	30
<u>Canadian Forestry Services</u>	25	31	56	1.6	0.1	1.6	70	30
St. John's	25	31	56	1.6	0.1	1.6	70	30
FISHERIES & OCEANS	69	133	202	13.0	0.3	13.3	45	55
St. John's	69	133	202	13.0	0.3	13.3	45	55
NATIONAL RESEARCH COUNCIL	—	1	1	—	0.3	0.4	90	10
<u>Scientific & Industrial Research</u>	—	1	1	—	0.3	0.4	90	10
St. John's	—	1	1	—	0.3	0.4	90	10
TOTAL	101	194	295	15.8	0.8	16.7	53	47

TABLE 3.12 Federal Natural Science Establishments in the National Capital Region, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	356	976	1,332	44.5	1.6	46.2	93	7
<u>Administration</u>	33	45	78	3.2	—	3.2		100
<u>Research</u>	294	858	1,152	38.0	1.5	39.6	100	
<u>Food Regulation & Inspection</u>	29	73	102	3.3	0.1	3.4	100	
ATOMIC ENERGY CONTROL BOARD	6	1	7	0.2	—	0.2	100	
CANADIAN INTERNATIONAL DEVELOPMENT AGENCY	—	16	16	0.6	—	0.6	26	74
CANADIAN MORTGAGE & HOUSING CORPORATION	21	18	39	2.2	—	2.2	65	35
COMMUNICATIONS	207	352	559	28.4	13.0	41.4	99	1
CONSUMER & CORPORATE AFFAIRS	181	205	386	14.3	0.2	14.5		100
<u>Consumer Affairs</u>	11	42	53	2.0	0.2	2.2		100
<u>Corporate Affairs Bureau</u>	170	163	333	12.3	0.1	12.4		100
ENERGY, MINES & RESOURCES	709	1,150	1,859	84.4	6.2	90.6	67	33
<u>Minerals & Earth Sciences</u>	691	1,146	1,837	83.7	6.2	89.9	67	33
<u>Energy</u>	18	4	22	0.7	—	0.7	56	44

TABLE 3.12 Federal Natural Science Establishments in the National Capital Region, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
ENVIRONMENT	253	130	383	17.3	0.9	18.2	53	47
<u>Environment Administration</u>	8	15	23	0.8	-	0.8	48	52
<u>Environment Conservation</u>	146	66	212	9.7	0.5	10.2	51	49
<u>Environmental Protection</u>	58	14	72	2.8	0.4	3.1	80	20
<u>Canadian Forestry Services</u>	34	35	69	3.8	--	3.8	38	62
<u>Parks Canada</u>	7	-	7	0.2	--	0.2		100
FISHERIES & OCEANS	101	169	270	5.8	0.1	5.9	45	55
INDIAN AFFAIRS & NORTHERN DEVELOPMENT	26	24	50	1.8	--	1.9	64	36
INDUSTRY, TRADE & COMMERCE	2	160	162	6.2	-	6.2	100	
<u>Grains & Oilseeds</u>	-	3	3	0.1	-	0.1	100	
<u>Trade - Industrial</u>	2	157	159	6.1	-	6.1	100	
INTERNATIONAL DEVELOPMENT RESEARCH CENTRE	32	30	62	3.5	-	3.5	92	8
MEDICAL RESEARCH COUNCIL	2	37	39	1.5	--	1.6	92	8
NATIONAL DEFENCE	208	260	468	13.1	2.9	16.0	85	15
NATIONAL ENERGY BOARD	30	13	43	1.4	-	1.4		100

TABLE 3.12 Federal Natural Science Establishments in the National Capital Region, Staff and Expenditures, by Department or Agency, by Program and by Scientific Activity, 1980-81 - concluded

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
NATIONAL HEALTH & WELFARE	405	316	721	24.2	1.5	25.7	53	47
<u>Health & Social Services</u>	5	12	17	0.7	-	0.7	71	29
<u>Health Protection</u>	379	300	679	22.6	1.4	24.0	50	50
<u>Medical Services</u>	21	4	25	0.9	0.1	1.0	100	
NATIONAL MUSEUMS	29	298	327	14.6	0.3	14.9	7	93
NATIONAL RESEARCH COUNCIL	932	1,823	2,755	123.6	14.6	138.2	78	22
<u>Scientific & Industrial Research</u>	873	1,659	2,532	109.1	14.4	123.5	87	13
<u>Scientific & Technical Information</u>	59	164	223	14.5	0.2	14.7		100
NATURAL SCIENCES & ENGINEERING RESEARCH COUNCIL	5	70	75	3.1	-	3.1	89	11
PUBLIC WORKS	45	18	63	3.0	1.0	4.0	35	65
ST. LAWRENCE SEAWAY AUTHORITY	18	-	18	0.4	-	0.4		100
TRANSPORT	15	5	20	6.6	0.4	7.0	13	87
<u>Air</u>	12	5	17	0.2	0.1	0.3	98	2
<u>Marine</u>	3	-	3	6.4	0.3	6.7	9	91
<u>Surface</u>	-	-	-	-	-	-		100
TOTAL	3,583	6,071	9,654	400.7	42.7	443.7	70	30

TABLE 4. Federal Natural Science Establishments, Staff and Expenditures, by Department or Agency, by Program, by Scientific Activity, by Region, 1980-81

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
AGRICULTURE	970	2,962	3,932	129.2	10.6	139.8	99	1
Administration	53	58	111	3.8	—	3.8		100
British Columbia	4	1	5	—	—	—		100
Alberta	2	2	4	0.1	—	0.1		100
Saskatchewan	3	2	5	0.1	—	0.1		100
Manitoba	2	2	4	0.1	—	0.1		100
Ontario (excluding Ottawa)	3	2	5	0.1	—	0.1		100
Quebec (excluding Hull)	2	1	3	0.1	—	0.1		100
New Brunswick	2	1	3	0.1	—	0.1		100
Nova Scotia	1	1	2	—	—	—		100
Prince Edward Island	1	1	2	—	—	—		100
National Capital Region	33	45	78	3.2	—	3.2		100
Research	860	2,741	3,601	118.1	10.4	128.5	100	
British Columbia	69	211	280	9.4	0.7	10.1	100	
Alberta	98	345	443	15.2	0.5	15.7	100	
Saskatchewan	89	295	384	11.9	0.7	12.6	100	
Manitoba	73	186	259	8.4	0.5	8.9	100	
Ontario (excluding Ottawa)	85	255	340	11.4	0.7	12.1	100	
Quebec (excluding Hull)	69	267	336	10.6	0.8	11.4	100	
New Brunswick	26	108	134	4.2	0.4	4.6	100	
Nova Scotia	33	112	145	4.8	4.4	9.2	100	
Prince Edward Island	18	75	93	3.0	0.1	3.1	100	
Newfoundland	6	29	35	1.0	—	1.1	100	
National Capital Region	294	858	1,152	38.0	1.5	39.6	100	

TABLE 4. Federal Natural Science Establishments, Staff and Expenditures, by Department or Agency, by Program, by Scientific Activity, by Region, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
<u>Food Regulation & Inspection</u>	40	96	136	4.4	0.2	4.6	100	
British Columbia	1	1	2	0.1	--	0.1	100	
Alberta	6	19	25	0.7	--	0.8	100	
Saskatchewan	3	-	3	0.2	--	0.2	100	
Manitoba	-	1	1	--	-	--	100	
New Brunswick	1	2	3	0.1	--	0.1	100	
National Capital Region	29	73	102	3.3	0.1	3.4	100	
<u>Canadian Grain Commission</u>	17	67	84	2.8	0.1	2.9	48	52
Manitoba	17	67	84	2.8	0.1	2.9	48	52
ATOMIC ENERGY CONTROL BOARD	6	1	7	0.2	-	0.2	100	
National Capital Region	6	1	7	0.2	-	0.2	100	
ATOMIC ENERGY OF CANADA LTD.	643	1,729	2,372	67.3	7.4	74.7	94	6
Manitoba	208	503	711	24.1	2.9	27.0	94	6
Ontario (excluding Ottawa)	435	1,226	1,661	43.2	4.5	47.7	95	5

TABLE 4. Federal Natural Science Establishments, Staff and Expenditures, by Department or Agency, by Program, by Scientific Activity, by Region, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
CONSUMER & CORPORATE AFFAIRS	181	205	386	14.3	0.2	14.5		100
<u>Consumer Affairs</u>	11	42	53	2.0	0.2	2.2		100
<u>National Capital Region</u>	11	42	53	2.0	0.2	2.2		100
<u>Corporate Affairs Bureau</u>	170	163	333	12.3	0.1	12.4		100
<u>National Capital Region</u>	170	163	333	12.3	0.1	12.4		100
CANADIAN INTERNATIONAL DEVELOPMENT AGENCY	-	16	16	0.6	-	0.6	26	74
National Capital Region	-	16	16	0.6	-	0.6	26	74
CANADA MORTGAGE & HOUSING CORPORATION	21	18	39	2.2	-	2.2	65	35
National Capital Region	21	18	39	2.2	-	2.2	65	35
COMMUNICATIONS	207	352	559	28.4	13.0	41.4	99	1
National Capital Region	207	352	559	28.4	13.0	41.4	99	1
ENERGY, MINES & RESOURCES	906	1,339	2,245	101.1	8.4	109.5	70	30

TABLE 4. Federal Natural Science Establishments, Staff and Expenditures, by Department or Agency, by Program, by Scientific Activity, by Region, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
<u>Minerals & Earth Sciences</u>	888	1,335	2,223	100.4	8.4	108.8	70	30
British Columbia	36	30	66	2.5	0.2	2.7	75	25
Yukon & Northwest Territories	-	6	6	0.3	-	0.3		100
Alberta	93	90	183	7.4	0.4	7.8	87	13
Saskatchewan	-	4	4	0.5	0.3	0.8	100	
Manitoba	-	1	1	--	-	--		100
Ontario	16	9	25	0.9	--	0.9	100	
Nova Scotia	51	49	100	4.9	1.1	6.0	85	15
Newfoundland	1	-	1	0.2	0.1	0.3	100	
National Capital Region	691	1,146	1,837	83.7	6.2	89.9	67	33
<u>Energy</u>	18	4	22	0.7	-	0.7	56	44
National Capital Region	18	4	22	0.7	-	0.7	56	44
ENVIRONMENT	1,643	2,740	4,383	174.8	11.3	186.0	26	74
<u>Atmospheric Environment</u>	688	1,646	2,334	106.1	6.4	112.4	5	95
British Columbia	37	157	194	11.4	0.1	11.4		100
Alberta	66	206	272	9.8	0.1	9.9		100
Manitoba	47	225	272	11.6	0.1	11.7		100
Ontario (excluding Ottawa)	451	705	1,156	57.5	5.7	63.2	9	91
Quebec (excluding Hull)	38	168	206	7.8	0.2	8.1		100
Nova Scotia	49	185	234	7.9	0.1	8.0		100

TABLE 4. Federal Natural Science Establishments, Staff and Expenditures, by Department or Agency, by Program, by Scientific Activity, by Region, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
<u>Environmental Protection</u>	96	109	205	4.5	0.9	5.3	80	20
Ontario (excluding Ottawa)	38	95	133	1.7	0.5	2.2	80	20
National Capital Region	58	14	72	2.8	0.4	3.1	80	20
<u>Environment Administration</u>	8	15	23	0.8	-	0.8	48	52
National Capital Region	8	15	23	0.8	-	0.8	48	52
<u>Environment Conservation</u>	490	415	905	34.2	2.8	37.0	43	57
British Columbia	53	79	132	4.8	0.6	5.4	8	92
Yukon & Northwest Territories	16	-	16	0.6	--	0.6	25	75
Alberta	36	-	36	1.5	--	1.5	75	25
Saskatchewan	54	138	192	6.4	0.7	7.1	18	82
Manitoba	7	-	7	0.3	--	0.3		100
Ontario	155	88	243	8.9	0.9	9.9	81	19
Quebec	16	15	31	0.9	--	0.9		100
Nova Scotia	7	29	36	1.0	0.1	1.1	1	99
National Capital Region	146	66	212	9.7	0.5	10.2	51	49
<u>Canadian Forestry Services</u>	340	555	895	28.6	1.2	29.8	71	29
British Columbia	59	111	170	4.6	0.1	4.7	70	30
Alberta	47	70	117	4.0	0.3	4.3	100	
Ontario (excluding Ottawa)	99	130	229	7.0	0.4	7.4	75	25
Quebec (excluding Hull)	37	83	120	3.8	0.2	4.0	75	25
New Brunswick	39	95	134	3.8	0.1	3.9	64	36
Newfoundland	25	31	56	1.6	0.1	1.6	70	30
National Capital Region	34	35	69	3.8	--	3.8	38	62

TABLE 4. Federal Natural Science Establishments, Staff and Expenditures, by Department or Agency, by Program, by Scientific Activity, by Region, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
Parks Canada	21	-	21	0.6	--	0.6		100
British Columbia	6	-	6	0.2	--	0.2		100
Alberta	8	-	8	0.2	-	0.2		100
National Capital Region	7	-	7	0.2	--	0.2		100
FISHERIES & OCEANS	543	1,639	2,182	103.3	8.2	111.5	45	55
British Columbia	86	435	521	23.4	2.8	26.2	43	57
Manitoba	45	100	145	5.6	0.4	6.0	45	55
Ontario (excluding Ottawa)	45	169	214	9.5	0.8	10.3	45	55
Quebec (excluding Hull)	15	25	40	2.6	0.3	2.9	45	55
New Brunswick	37	76	113	15.4	1.1	16.5	60	40
Nova Scotia	145	532	677	28.0	2.3	30.3	44	56
Newfoundland	69	133	202	13.0	0.3	13.3	45	55
National Capital Region	101	169	270	5.8	0.1	5.9	45	55
INDIAN AFFAIRS & NORTHERN DEVELOPMENT	28	24	52	1.9	--	2.0	65	35
Yukon & Northwest Territories	2	-	2	0.1	--	0.1	100	
National Capital Region	26	24	50	1.8	--	1.9	64	36
INTERNATIONAL DEVELOPMENT RESEARCH CENTRE	32	30	62	3.5	-	3.5	92	8
National Capital Region	32	30	62	3.5	-	3.5	92	8

TABLE 4. Federal Natural Science Establishments, Staff and Expenditures, by Department or Agency, by Program, by Scientific Activity, by Region, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
INDUSTRY, TRADE & COMMERCE	2	160	162	6.2	-	6.2	100	
<u>Grains & Oilseeds</u>	-	3	3	0.1	-	0.1	100	
National Capital Region	-	3	3	0.1	-	0.1	100	
<u>Trade Industrial</u>	2	157	159	6.1	-	6.1	100	
National Capital Region	2	157	159	6.1	-	6.1	100	
MEDICAL RESEARCH COUNCIL	2	37	39	1.5	--	1.6	92	8
National Capital Region	2	37	39	1.5	--	1.6	92	8
NATIONAL DEFENCE	566	1,299	1,865	55.2	17.7	71.9	97	3
British Columbia	54	85	139	4.6	1.8	6.4	100	
Alberta	50	127	177	5.4	3.5	8.9	100	
Ontario (excluding Ottawa)	55	190	245	6.6	2.0	8.6	100	
Quebec (excluding Hull)	133	493	626	19.3	4.8	24.1	100	
Nova Scotia	66	144	210	6.2	1.7	7.9	100	
National Capital Region	208	260	468	13.1	2.9	16.0	85	15
NATIONAL ENERGY BOARD	30	13	43	1.4	-	1.4		100
National Capital Region	30	13	43	1.4	-	1.4		100
NATIONAL FILM BOARD	2	8	10	0.5	--	0.6	75	25
Quebec	2	8	10	0.5	--	0.6	75	25

TABLE 4. Federal Natural Science Establishments, Staff and Expenditures, by Department or Agency, by Program, by Scientific Activity, by Region, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
NATIONAL HEALTH & WELFARE	491	423	914	30.0	1.6	31.6	42	58
<u>Health & Social Services</u>	5	12	17	0.7	--	0.7	71	29
National Capital Region	5	12	17	0.7	--	0.7	71	29
<u>Health Protection</u>	459	405	864	28.0	1.5	29.5	41	59
British Columbia	11	14	25	0.7	--	0.7		100
Manitoba	9	13	22	0.6	--	0.7		100
Ontario (excluding Ottawa)	31	41	72	2.1	0.1	2.1		100
Quebec (excluding Hull)	23	28	51	1.5	--	1.5		100
Nova Scotia	6	9	15	0.4	--	0.4		100
National Capital Region	379	300	679	22.6	1.4	24.0	50	50
<u>Medical Services</u>	27	6	33	1.3	0.1	1.4	100	
Alberta	2	1	3	0.1	--	0.1	100	
Ontario	4	1	5	0.3	--	0.3	100	
National Capital Region	21	4	25	0.9	0.1	1.0	100	
NATIONAL MUSEUMS	29	298	327	14.6	0.3	14.9	7	93
National Capital Region	29	298	327	14.6	0.3	14.9	7	93

TABLE 4. Federal Natural Science Establishments, Staff and Expenditures, by Department or Agency, by Program, by Scientific Activity, by Region, 1980-81 - continued

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
NATIONAL RESEARCH COUNCIL	1,095	2,040	3,135	141.4	18.4	159.8	80	20
<u>Scientific & Industrial Research</u>	1,036	1,876	2,912	127.0	18.2	145.1	88	12
British Columbia	41	56	97	3.7	0.5	4.2	96	4
Saskatchewan	47	68	115	4.6	0.4	5.0	92	8
Manitoba	1	2	3	1.9	0.2	2.1	98	2
Ontario (excluding Ottawa)	10	30	40	1.4	0.1	1.5	82	18
Quebec (excluding Hull)	23	16	39	2.2	1.9	4.1	83	17
Nova Scotia	41	43	84	3.9	0.3	4.2	96	4
Prince Edward Island	-	1	1	-	-	-		100
Newfoundland	-	1	1	-	0.3	0.4	90	10
National Capital Region	873	1,659	2,532	109.1	14.4	123.5	87	13
<u>Scientific & Technical Information</u>	59	164	223	14.5	0.2	14.7		100
National Capital Region	59	164	223	14.5	0.2	14.7		100
NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL	5	70	75	3.1	-	3.1	89	11
National Capital Region	5	70	75	3.1	-	3.1	89	11
PUBLIC WORKS	45	18	63	3.0	1.0	4.0	34	66
National Capital Region	45	18	63	3.0	1.0	4.0	34	66
ST. LAWRENCE SEAWAY AUTHORITY	18	-	18	0.4	-	0.4		100
National Capital Region	18	-	18	0.4	-	0.4		100

TABLE 4. Federal Natural Science Establishments, Staff and Expenditures, by Department or Agency, by Program, by Scientific Activity, by Region, 1980-81 - concluded

Department or agency and program	Staff			Intramural scientific expenditures			Activity	
	Scientific & professional	Other	Total	Current	Capital	Total	R & D	R.S.A.
	person-years			\$000,000			%	
TRANSPORT	29	29	58	7.7	0.4	8.1	20	80
<u>Administration</u>	14	24	38	1.1	-	1.1	61	39
Quebec (excluding Hull)	14	24	38	1.1	-	1.1	61	39
<u>Air</u>	12	5	17	0.2	0.1	0.3	98	2
National Capital Region	12	5	17	0.2	0.1	0.3	98	2
<u>Marine</u>	3	-	3	6.4	0.3	6.7	9	91
National Capital Region	3	-	3	6.4	0.3	6.7	9	91
<u>Surface</u>	-	-	-	--	-	--		100
National Capital Region	-	-	-	--	-	--		100
TOTAL	7,494	15,450	22,944	891.8	98.5	989.5	66	34

ANNEXES A AND B TO THE SPRING OPERATIONAL PLANS
SCIENCE ADDENDUM 1982/83

Regional Science Activities in 1980/81

Departments and agencies of the federal government are asked to identify the regional distribution of their scientific activities.

To assist you in completing these annexes, computer print-outs are attached of expenditure data already reported in the Main Estimates Science Addenda (1981/82). You may find this intramural expenditure data useful as a guide to the total amounts which should be listed under intramural regional headings (Annex B). Similarly, the existing listings of extramural payments may help you to complete Annex A. The person-year print-out may be helpful in completing the corresponding portion of Annex B.

Annex A, 'Extramural Payments' asks for a listing of recipients of federal payments made in connection with a scientific activity.

This information is being collected jointly on behalf of Statistics Canada and the Ministry of State for Science and Technology (MOSST) under Section 11 of the Statistics Act which states:

"The Minister may enter into an agreement with any department of any municipal or other corporation for the exchange of information collected jointly with such department or corporation from a respondent and for subsequent tabulation or publication based on such information".

Included in this section of the act is the following provision:

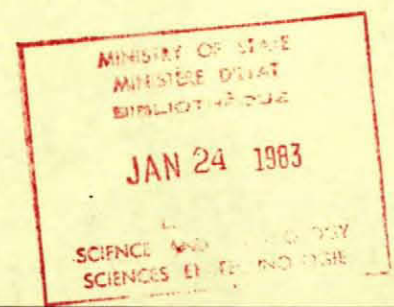
"The agreement shall not apply in respect of any respondent who gives notice in writing to the Chief Statistician that he objects to the sharing of the information between Statistics Canada and the department or corporation as the case may be".

Statistics Canada and MOSST have such an agreement for sharing information gathered in Annex A and the joint agreement shall not apply to data provided by a department or agency which has given the required notice to the office of the Chief Statistician.

When such notice has been given, such specified data will be held by Statistics Canada alone, as provided for in the Statistics Act.

MOSST and Statistics Canada will maintain as confidential data obtained under this agreement.

Annex B, 'Federal Establishments and Activities in the Natural Sciences', can be filled out using the table format provided on the back of the sheet.



ANNEX B

Federal Establishments and Activities in the Natural Sciences

Regional information is required for government decentralization studies and for estimates of the regional balance of total science expenditures. The limited information requested in this annex will serve as an updated inventory base facilitating future surveys, detailed studies or other projects (e.g., directories of scientific establishments, regional scientific activities, etc.).

For each of the programs for which you are reporting scientific expenditures, please list, by province and location, all establishments performing or sponsoring activities within the natural sciences.

For purposes of this survey an establishment is to be considered a unit or group of units at a given location performing scientific activities. If departments now have a definition of their establishments, it is acceptable for the purposes of this annex.

Please list the name and location of each establishment as well as details of expenditures and resources, as indicated in the table. (Supporting contracts are part of an establishment's intramural expenditures).

Please forward the completed sheet to:

Science Statistics Centre
270 Albert Street
Room 916
Ottawa, Ontario.
K1A 1A1

ANNEX B

1980/81

Natural Science Establishments and Activities
 Etablissements et activités en science naturelles

Information provided by:
 Information donnée par:

Officer - Agent: _____
 Department - Ministère: _____
 Program - Programme: _____

Telephone: _____

Establishment - Etablissement (Please include complete address) (s.v.p. inclus l'adresse complete)	Intramural scientific expenditures - Dépenses scientifiques intra-muros			Scientific personnel - Personnel scientifique			Activity - Activité	
	Current - Courantes	Capital - En capital	Total	Scientific & professional - Sciences et professions	Other - Autres	Total	R & D - R-D	R.S.A. - A.S.C.
		\$000					% of total scientific expenditures - % des dépenses scientifiques totales	

