



Catalogue no. 88F0006XIE — No. 05
ISSN: 1706-8967
ISBN: 0-662-35931-3

Working Paper

Science, Innovation and Electronic Information Division working papers

Provincial distribution of federal expenditures and personnel on science and technology, 1995-96 to 2001-2002

Science, Innovation and Electronic Information Division (SIEID)
7-A, R.H. Coats Building, Ottawa, K1A 0T6

Telephone: 1 800 263-1136

This paper represents the views of the author and does not necessarily reflect the opinions of Statistics Canada.



Statistics
Canada Statistique
Canada

Canada

**Provincial distribution of federal expenditures and
personnel on science and technology
1995-96 to 2001-2002**

88F0006XIE2004005
ISSN: 1706-8967
ISBN: 0-662-35931-3

Science, Innovation and Electronic Information Division (SIEID)
7-A, R.H. Coats Building
Statistics Canada
Ottawa, ON K1A 0T6

How to obtain more information:
National inquiries line: 1 800 263-1136
E-Mail inquiries: infostats@statcan.ca

February 2004

Prepared by:

Science, Innovation and Electronic Information Division (SIEID)
Statistics Canada

Table of contents

Tables	Page
1. Federal expenditures on science and technology (S&T), by science, by province and territories and sector of performance, 2001-2002	10
2. Federal expenditures on R&D, by science, by province and territories and sector of performance, 2001-2002	11
3. Federal expenditures on S&T, by province and territories, 1995-96 to 2001-2002	12
4. Federal expenditures on R&D, by province and territories, 1995-96 to 2001-2002	13
5. Federal expenditures on intramural S&T, by province and territories, 1995-96 to 2001-2002	14
6. Federal expenditures on intramural R&D, by province and territories, 1995-96 to 2001-2002	15
7. Federal expenditures on extramural S&T, by province and territories, 1995-96 to 2001-2002	16
8. Federal expenditures on extramural R&D, by province and territories, 1995-96 to 2001-2002	17
9. Federal government R&D payments to Canadian industry, by province and territories, 1995-96 to 2001-2002	18
10. Federal government R&D payments to the higher education sector, by province and territories, 1995-96 to 2001-2002	19
11. Federal expenditures on extramural S&T, by science, activity and by province and territories, 2001-2002	20
12. Federal expenditures on extramural S&T, by department or agency and by province and territories, 2001-2002	21
13. Federal expenditures on extramural R&D, by department or agency and by province and territories, 2001-2002	21
14. Federal government grants and contracts to Canadian industry for R&D in the natural sciences, by province and territories, 2001-2002.....	22
15. Intramural expenditures of federal scientific establishments, by science, activity and by province and territories, 2001-2002	23
16. Intramural expenditures of federal scientific establishments, by department or agency, activity and by province and territories, 2001-2002	24
17. Intramural expenditures of federal scientific establishments performing natural science activities, by department or agency, activity and by province and territories, 2001-2002	25
18. Personnel of federal establishments performing S&T activities, by science, activity, category and by province and territories, 2001-2002	26
19. Personnel of federal establishments performing S&T activities, by department or agency and by province and territories, 2001-2002	27

Table of contents - Concluded

	Page
20. Scientific and professional personnel of federal establishments performing S&T Activities, by department or agency and by province and territories, 2001-2002	28
21. Personnel of federal establishments performing R&D activities, by department or agency and by province and territories, 2001-2002.....	29
22. Scientific and professional personnel of federal establishments performing R&D activities, by department or agency and by province and territories, 2001-2002	29
23. Staff and expenditures of scientific establishments, by department or agency and by province and territories, 2001-2002	30
24. Staff and expenditures of scientific establishments, by province and territories and by department or agency, 2001-2002	36
25. Federal expenditures on extramural S&T, by census metropolitan areas, activity and science, 2001-2002.....	40
How to order publications	41

Symbols

0 amount too small to be expressed, nil or zero

⌈ revised figures

... figures not appropriate or not applicable

Note

Due to rounding of data, the tables may not add to the sum of their components.

Published by authority of the Minister responsible for Statistics Canada

© Minister of Industry, 2004

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without prior written permission from Licence Services, Marketing Division, Statistics Canada, Ottawa, Ontario, Canada K1A 0T6

Introduction

This document presents the geographical distribution of Federal Government expenditures on science and technology (S&T). The statistics presented in this report are supplements of data published in the Service Bulletin "Science Statistics" Vol. 28, No. 3, Catalogue 88-001XIE. S&T expenditures can be divided into research and development (R&D) and related scientific activities (RSA) expenditures. In this document, there are two other divisions which can be applied to any expenditure. They are science type and intramural versus extramural expenditures. The terms "natural sciences" and "social sciences" are to be regarded as synonymous with "natural sciences and engineering" and "social sciences and humanities" respectively.

Included in this report are tables presenting expenditures and staff of federal government scientific establishments for the fiscal year 2001-2002.

In 2001-2002, the federal government spent a total of \$8,169 million on S&T. Of this amount, \$4,864 million, or 60%, was spent in the provinces and territories. The rest consists of categories of expenditures which are not distributed geographically. They are the following:

- All federal expenditures in the National Capital Region (NCR) for the performance of S&T in federal institutions (intramural S&T), whose expenditures were \$2,603 million;
- All payments abroad for S&T of \$282 million; and
- Various other categories of federal expenditures which could not be assigned geographically, amounting to \$420 million.

Expenditures and personnel for S&T performed by the federal government in the National Capital Region (NCR) are excluded from the provincial totals and are reported separately. The NCR is, in effect, treated as a separate entity, however, these data distributed geographically, are presented.

Estimates of S&T activities by region may be easily misunderstood. For example, the financial data are identified with the region of the physical location of an S&T unit. It would be wrong to assume all of the expenditures of a unit are spent in the region of location. Supplies and equipment can be purchased from other regions or countries. Furthermore, in cases such as the National Capital Region, labour moves freely between the two provinces so that even wages and salaries paid by a unit are partly spent outside the area of location.

We are grateful to the departments and agencies who completed our questionnaires. Without their co-operation a provincial representation such as this could not be prepared.

This report was prepared by **Yvonne Tremblay** under the direction of **Lloyd Lizotte**, Subject Matter Manager, Science Innovation and Electronic Information Division.

Department/Program names and abbreviations

ACOA	-	ATLANTIC CANADA OPPORTUNITIES AGENCY
AECL	-	ATOMIC ENERGY OF CANADA LIMITED
AGR	-	AGRICULTURE AND AGRI-FOOD CANADA
BC	-	BANK OF CANADA
C&I	-	CITIZENSHIP AND IMMIGRATION
CCMD	-	CANADIAN CENTRE FOR MANAGEMENT DEVELOPMENT
CCRA	-	CANADA CUSTOMS AND REVENUE AGENCY
CED(QUÉ)	-	CANADA ECONOMIC DEVELOPMENT (QUEBEC REGIONS)
CFI	-	CANADA FOUNDATION FOR INNOVATION
CFIA	-	CANADIAN FOOD INSPECTION AGENCY
CHRC	-	CANADIAN HUMAN RIGHTS COMMISSION
CIDA	-	CANADIAN INTERNATIONAL DEVELOPMENT AGENCY
CIHR	-	CANADIAN INSTITUTES OF HEALTH RESEARCH
CMC	-	CANADIAN MUSEUM OF CIVILIZATION
CMHC	-	CANADA MORTGAGE & HOUSING CORPORATION
CMN	-	CANADIAN MUSEUM OF NATURE
CNSC	-	CANADIAN NUCLEAR SAFETY COMMISSION
COL	-	COMMISSIONER OF OFFICIAL LANGUAGES
CSA	-	CANADIAN SPACE AGENCY
CSTM	-	CANADA SCIENCE AND TECHNOLOGY MUSEUM
ENV	-	ENVIRONMENT
F&O	-	FISHERIES & OCEANS
FA&IT	-	FOREIGN AFFAIRS AND INTERNATIONAL TRADE
FIN	-	FINANCE
GC	-	GENOME CANADA
HC	-	HEALTH CANADA
HRDC	-	HUMAN RESOURCES DEVELOPMENT CANADA
IAND	-	INDIAN AFFAIRS & NORTHERN DEVELOPMENT
IDRC	-	INTERNATIONAL DEVELOPMENT RESEARCH CENTRE
IND	-	INDUSTRY CANADA
JUS	-	JUSTICE
NA	-	NATIONAL ARCHIVES
NDEF	-	NATIONAL DEFENCE

NEB	-	NATIONAL ENERGY BOARD
NFB	-	NATIONAL FILM BOARD
NGC	-	NATIONAL GALLERY OF CANADA
NL	-	NATIONAL LIBRARY
NRC	-	NATIONAL RESEARCH COUNCIL
NRCan	-	NATURAL RESOURCES CANADA
NSERC	-	NATURAL SCIENCES & ENGINEERING RESEARCH COUNCIL
PC	-	PRIVY COUNCIL
PCA	-	PARKS CANADA AGENCY
PSC	-	PUBLIC SERVICE COMMISSION
PW&GS	-	PUBLIC WORKS & GOVERNMENT SERVICES
RCMP	-	ROYAL CANADIAN MOUNTED POLICE
SGEN	-	SOLICITOR GENERAL
SSHRC	-	SOCIAL SCIENCES & HUMANITIES RESEARCH COUNCIL
STC	-	STATISTICS CANADA
TB	-	TREASURY BOARD
TC	-	TRANSPORT CANADA
WEDO	-	WESTERN ECONOMIC DIVERSIFICATION OFFICE

S&T	-	Science and Technology (R&D + RSA = S&T)
R&D	-	Research and Development
RSA	-	Related Scientific Activities
NSE	-	Natural Sciences and Engineering
SSH	-	Social Sciences and Humanities
NCR	-	National Capital Region

ELECTRONIC PUBLICATIONS AVAILABLE AT
www.statcan.ca



Statistical tables

TABLE 1. Federal expenditures on S&T, by science, by province and territories and sector of performance, 2001-2002

Province and territories	Federal government	Canadian business enterprises	Higher education	Other ¹ Canadian performers	Total
millions of dollars					
Total sciences					
Newfoundland and Labrador	61	9	20	5	95
Prince Edward Island	19	3	3	1	26
Nova Scotia	153	21	47	5	226
New Brunswick	46	8	24	4	82
Quebec	527	258	444	153	1,382
Ontario	500	440	601	103	1,644
Manitoba	148	15	42	6	211
Saskatchewan	90	10	57	7	164
Alberta	159	27	172	117	475
British Columbia	219	60	214	33	526
Yukon, N.W.T., and Nunavut	30	1	0	2	33
Canada (Excluding NCR)	1,952	852	1,624	436	4,864
National Capital Region*	2,603	...	...	...	2,603
Canada (Including NCR)	4,555	852	1,624	436	7,467
Natural sciences					
Newfoundland and Labrador	59	9	14	4	86
Prince Edward Island	18	3	2	0	23
Nova Scotia	136	21	35	4	196
New Brunswick	45	8	9	3	65
Quebec	493	256	350	19	1,118
Ontario	465	429	463	62	1,419
Manitoba	139	15	33	4	191
Saskatchewan	87	10	49	5	151
Alberta	149	27	138	113	427
British Columbia	204	58	174	27	463
Yukon, N.W.T., and Nunavut	26	1	0	1	28
Canada (Excluding NCR)	1,821	837	1,267	242	4,167
National Capital Region*	1,345	...	...	...	1,345
Canada (Including NCR)	3,166	837	1,267	242	5,512
Social sciences					
Newfoundland and Labrador	2	0	6	1	9
Prince Edward Island	1	0	1	1	3
Nova Scotia	17	0	12	1	30
New Brunswick	1	0	15	1	17
Quebec	34	2	94	134	264
Ontario	35	11	138	41	225
Manitoba	9	0	9	2	20
Saskatchewan	3	0	8	2	13
Alberta	10	0	34	4	48
British Columbia	15	2	40	6	63
Yukon, N.W.T., and Nunavut	4	0	0	1	5
Canada (Excluding NCR)	131	15	357	194	697
National Capital Region*	1,258	...	...	...	1,258
Canada (Including NCR)	1,389	15	357	194	1,955

¹ Includes Canadian non-profit institutions, provincial and municipal governments and other Canadian performers.

* Federal intramural expenditures only.

TABLE 2. Federal expenditures on R&D, by science, by province and territories and sector of performance, 2001-2002

Province and territories	Federal government	Canadian business enterprises	Higher education	Other ¹ Canadian performers	Total
millions of dollars					
Total sciences					
Newfoundland and Labrador	27	8	19	3	57
Prince Edward Island	16	3	2	1	22
Nova Scotia	70	20	27	4	121
New Brunswick	26	7	22	3	58
Quebec	372	252	412	23	1,059
Ontario	328	423	518	84	1,353
Manitoba	77	13	39	4	133
Saskatchewan	63	9	43	6	121
Alberta	98	26	159	111	394
British Columbia	97	54	200	29	380
Yukon, N.W.T., and Nunavut	3	1	0	1	5
Canada (Excluding NCR)	1,177	816	1,441	269	3,703
National Capital Region*	926	...	...	...	926
Canada (Including NCR)	2,103	816	1,441	269	4,629
Natural sciences					
Newfoundland and Labrador	27	8	15	2	52
Prince Edward Island	16	3	1	0	20
Nova Scotia	70	20	19	3	112
New Brunswick	26	7	9	2	44
Quebec	372	252	347	16	987
Ontario	326	421	432	55	1,234
Manitoba	77	13	32	3	125
Saskatchewan	63	9	37	5	114
Alberta	98	26	136	108	368
British Columbia	97	54	172	25	348
Yukon, N.W.T., and Nunavut	3	1	0	0	4
Canada (Excluding NCR)	1,175	814	1,200	219	3,408
National Capital Region*	836	...	...	...	836
Canada (Including NCR)	2,011	814	1,200	219	4,244
Social sciences					
Newfoundland and Labrador	0	0	4	1	5
Prince Edward Island	0	0	1	1	2
Nova Scotia	0	0	8	1	9
New Brunswick	0	0	13	1	14
Quebec	0	0	65	7	72
Ontario	2	2	86	29	119
Manitoba	0	0	7	1	8
Saskatchewan	0	0	6	1	7
Alberta	0	0	23	3	26
British Columbia	0	0	28	4	32
Yukon, N.W.T., and Nunavut	0	0	0	1	1
Canada (Excluding NCR)	2	2	241	50	295
National Capital Region*	90	...	...	...	90
Canada (Including NCR)	92	2	241	50	385

¹ Includes Canadian non-profit institutions, provincial and municipal governments and other Canadian performers.

* Federal intramural expenditures only.

TABLE 3. Federal expenditures on S&T, by province and territories, 1995-96 to 2001-2002

Province and territories	Year						
	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002
millions of dollars							
Total sciences							
Newfoundland and Labrador	90	79	71	86	87	101	95
Prince Edward Island	17	17	14	17	20	29	26
Nova Scotia	199	199	175	200	192	220	226
New Brunswick	81	67	65	75	76	68	82
Quebec	792	824	787	788	834	1,017	1,382
Ontario	1,071	1,077	1,141	1,143	1,309	1,347	1,644
Manitoba	176	184	149	136	161	190	211
Saskatchewan	108	93	120	122	131	148	164
Alberta	252	248	247	254	300	327	475
British Columbia	383	347	373	446	529	479	526
Yukon, N.W.T., and Nunavut	14	17	16	15	20	28	33
Canada (Excluding NCR)	3,183	3,152	3,158	3,282	3,659	3,954	4,864
National Capital Region*	1,926	1,967	1,819	1,942	1,981	2,130	2,603
Canada (Including NCR)	5,109	5,119	4,977	5,224	5,640	6,084	7,467
Natural sciences							
Newfoundland and Labrador	85	73	65	79	81	93	86
Prince Edward Island	16	17	14	17	19	27	23
Nova Scotia	171	171	150	172	172	186	196
New Brunswick	77	63	61	71	68	64	65
Quebec	730	762	733	734	772	944	1,118
Ontario	965	969	1,037	1,035	1,200	1,210	1,419
Manitoba	163	172	137	122	147	172	191
Saskatchewan	103	88	115	116	125	140	151
Alberta	233	228	231	238	284	301	427
British Columbia	346	316	340	419	495	439	463
Yukon, N.W.T., and Nunavut	8	10	11	9	15	21	28
Canada (Excluding NCR)	2,898	2,869	2,895	3,012	3,377	3,597	4,167
National Capital Region*	1,100	1,026	979	1,046	1,058	1,089	1,345
Canada (Including NCR)	3,998	3,895	3,874	4,058	4,435	4,686	5,512

* Federal intramural expenditures only.

TABLE 4. Federal expenditures on R&D, by province and territories, 1995-96 to 2001-2002

Province and territories	Year						
	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002
millions of dollars							
Total sciences							
Newfoundland and Labrador	56	45	40	47	53	64	57
Prince Edward Island	16	15	13	16	17	24	22
Nova Scotia	123	121	107	120	120	135	121
New Brunswick	58	48	46	55	53	50	58
Quebec	654	666	639	629	671	843	1,059
Ontario	856	868	913	935	1,045	1,058	1,353
Manitoba	129	115	94	85	101	122	133
Saskatchewan	84	74	96	86	102	118	121
Alberta	199	191	196	204	249	264	394
British Columbia	282	247	262	334	400	320	380
Yukon, N.W.T., and Nunavut	2	6	5	4	8	12	5
Canada (Excluding NCR)	2,459	2,397	2,411	2,515	2,819	3,010	3,703
National Capital Region*	805	771	757	812	821	889	926
Canada (Including NCR)	3,264	3,168	3,168	3,327	3,640	3,899	4,629
Natural sciences							
Newfoundland and Labrador	55	45	39	46	51	61	52
Prince Edward Island	16	14	13	15	17	23	20
Nova Scotia	120	118	104	117	117	130	112
New Brunswick	57	47	45	54	52	48	44
Quebec	627	643	617	608	643	809	987
Ontario	814	826	873	882	996	994	1,234
Manitoba	126	113	91	82	97	118	125
Saskatchewan	83	73	95	85	101	116	114
Alberta	193	184	190	198	241	253	368
British Columbia	261	234	251	322	385	302	348
Yukon, N.W.T., and Nunavut	2	6	5	4	8	11	4
Canada (Excluding NCR)	2,354	2,303	2,323	2,413	2,708	2,865	3,408
National Capital Region*	750	704	689	736	736	805	836
Canada (Including NCR)	3,104	3,007	3,012	3,149	3,444	3,670	4,244

* Federal intramural expenditures only.

TABLE 5. Federal expenditures on intramural S&T, by province and territories, 1995-96 to 2001-2002

Province and territories	Year						
	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002
millions of dollars							
Total sciences							
Newfoundland and Labrador	55	55	48	57	56	63	61
Prince Edward Island	11	11	11	11	15	20	19
Nova Scotia	149	154	134	152	142	168	153
New Brunswick	50	49	45	50	48	42	46
Quebec	324	349	328	350	373	488	527
Ontario	385	474	445	398	482	516	500
Manitoba	127	138	107	92	110	128	148
Saskatchewan	72	61	92	84	82	87	90
Alberta	141	140	136	129	142	160	159
British Columbia	176	162	171	176	210	218	219
Yukon, N.W.T., and Nunavut	11	15	15	14	17	23	30
Canada (Excluding NCR)	1,501	1,608	1,532	1,513	1,677	1,913	1,952
National Capital Region*	1,926	1,967	1,819	1,942	1,981	2,130	2,603
Canada (Including NCR)	3,427	3,575	3,351	3,455	3,658	4,043	4,555
Natural sciences							
Newfoundland and Labrador	52	50	44	53	53	59	59
Prince Edward Island	10	10	11	11	14	19	18
Nova Scotia	125	129	113	129	123	140	136
New Brunswick	49	47	44	49	47	41	45
Quebec	298	321	306	327	353	460	493
Ontario	362	449	430	384	468	492	465
Manitoba	119	130	99	84	103	118	139
Saskatchewan	69	58	89	80	79	83	87
Alberta	132	129	130	122	137	150	149
British Columbia	164	148	162	166	200	203	204
Yukon, N.W.T., and Nunavut	6	10	10	8	13	18	26
Canada (Excluding NCR)	1,386	1,481	1,438	1,413	1,590	1,783	1,821
National Capital Region*	1,100	1,026	979	1,046	1,058	1,089	1,345
Canada (Including NCR)	2,486	2,507	2,417	2,459	2,648	2,872	3,166

* Federal intramural expenditures only.

TABLE 6. Federal expenditures on intramural R&D, by province and territories, 1995-96 to 2001-2002

Province and territories	Year						
	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002
millions of dollars							
Total sciences							
Newfoundland and Labrador	27	25	23	26	25	30	27
Prince Edward Island	9	10	10	10	12	16	16
Nova Scotia	77	79	71	77	72	88	70
New Brunswick	29	32	29	31	32	27	26
Quebec	218	226	211	226	249	350	372
Ontario	259	348	302	276	309	314	328
Manitoba	71	77	59	48	58	68	77
Saskatchewan	52	47	74	54	60	62	63
Alberta	98	94	96	94	108	116	98
British Columbia	81	77	83	85	106	111	97
Yukon, N.W.T., and Nunavut	1	6	5	4	7	9	3
Canada (Excluding NCR)	922	1,021	963	931	1,038	1,191	1,177
National Capital Region*	805	771	757	812	821	889	926
Canada (Including NCR)	1,727	1,792	1,720	1,743	1,859	2,080	2,103
Natural sciences							
Newfoundland and Labrador	27	25	23	26	25	30	27
Prince Edward Island	9	10	10	10	12	16	16
Nova Scotia	77	79	71	77	72	88	70
New Brunswick	29	32	29	31	32	27	26
Quebec	217	225	211	226	249	349	372
Ontario	257	348	302	276	309	314	326
Manitoba	71	77	58	48	58	68	77
Saskatchewan	52	47	74	54	60	62	63
Alberta	98	94	96	94	108	116	98
British Columbia	81	77	83	85	106	111	97
Yukon, N.W.T., and Nunavut	1	6	5	4	7	9	3
Canada (Excluding NCR)	919	1,020	962	931	1,038	1,190	1,175
National Capital Region*	750	704	689	736	736	805	836
Canada (Including NCR)	1,669	1,724	1,651	1,667	1,774	1,995	2,011

* Federal intramural expenditures only.

TABLE 7. Federal expenditures on extramural S&T, by province and territories, 1995-96 to 2001-2002

Province and territories	Year						
	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001	2001-2002
millions of dollars							
Total sciences							
Newfoundland and Labrador	35	24	23	28	31	38	34
Prince Edward Island	6	6	3	6	5	9	7
Nova Scotia	51	46	41	48	55	52	73
New Brunswick	31	18	19	25	23	26	36
Quebec	468	475	459	438	461	529	855
Ontario	685	602	696	745	827	831	1,144
Manitoba	50	46	43	44	51	62	63
Saskatchewan	36	32	28	38	49	61	74
Alberta	111	107	111	125	158	167	316
British Columbia	206	186	201	270	319	261	307
Yukon, N.W.T., and Nunavut	3	2	2	1	3	5	3
Canada	1,682	1,544	1,626	1,769	1,982	2,041	2,912
Natural sciences							
Newfoundland and Labrador	33	23	21	26	28	35	27
Prince Edward Island	6	6	3	6	5	8	5
Nova Scotia	46	42	37	43	49	45	60
New Brunswick	29	16	17	23	21	23	20
Quebec	432	441	427	406	419	484	625
Ontario	604	520	608	651	731	718	954
Manitoba	45	42	37	38	44	53	52
Saskatchewan	34	30	26	36	46	57	64
Alberta	101	99	101	116	147	151	278
British Columbia	182	169	178	253	295	237	259
Yukon, N.W.T., and Nunavut	2	1	1	1	2	3	2
Canada	1,514	1,388	1,457	1,599	1,787	1,814	2,346

TABLE 8. Federal expenditures on extramural R&D, by province and territories, 1995-96 to 2001-2002

Province and territories	Year						
	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001	2001-2002
millions of dollars							
Total sciences							
Newfoundland and Labrador	29	19	17	21	28	34	30
Prince Edward Island	6	6	2	5	5	8	6
Nova Scotia	45	42	37	43	48	47	51
New Brunswick	29	16	17	24	21	23	32
Quebec	437	440	428	403	422	493	687
Ontario	598	519	610	659	735	744	1,025
Manitoba	44	38	36	37	43	54	56
Saskatchewan	32	27	22	32	42	56	58
Alberta	100	96	100	110	141	148	296
British Columbia	190	170	179	249	294	209	283
Yukon, N.W.T., and Nunavut	1	1	0	0	1	3	2
Canada	1,512	1,376	1,448	1,584	1,780	1,819	2,526
Natural sciences							
Newfoundland and Labrador	28	18	16	20	26	31	25
Prince Edward Island	6	6	2	5	5	7	4
Nova Scotia	42	39	34	40	45	42	42
New Brunswick	28	15	16	23	20	21	18
Quebec	411	418	406	382	394	460	615
Ontario	558	477	571	606	687	680	908
Manitoba	41	36	33	34	39	50	48
Saskatchewan	31	26	21	31	41	54	51
Alberta	94	90	94	104	133	137	270
British Columbia	169	157	168	237	279	191	251
Yukon, N.W.T., and Nunavut	1	1	0	0	1	2	1
Canada	1,410	1,284	1,362	1,482	1,670	1,675	2,233

TABLE 9. Federal government R&D payments to Canadian industry, by province and territories, 1995-96 to 2001-2002

Province and territories	Year						
	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001	2001-2002
millions of dollars							
Total sciences							
Newfoundland and Labrador	7	6	6	9	10	11	8
Prince Edward Island	2	2	2	4	2	5	3
Nova Scotia	15	15	16	10	10	12	20
New Brunswick	14	3	8	9	8	5	7
Quebec	211	209	226	176	158	187	252
Ontario	283	215	328	312	267	235	423
Manitoba	18	11	11	10	12	11	13
Saskatchewan	12	6	6	8	8	8	9
Alberta	23	20	24	21	25	21	26
British Columbia	47	48	58	117	142	49	54
Yukon, N.W.T., and Nunavut	--	--	--	--	--	1	1
Canada	633	535	685	676	642	545	816
Natural sciences							
Newfoundland and Labrador	7	6	6	9	9	11	8
Prince Edward Island	2	2	2	4	2	5	3
Nova Scotia	15	15	16	10	10	12	20
New Brunswick	14	3	8	9	8	5	7
Quebec	211	209	226	176	158	186	252
Ontario	282	213	327	311	267	235	421
Manitoba	17	11	11	10	12	11	13
Saskatchewan	12	6	6	8	8	8	9
Alberta	23	20	24	21	25	21	26
British Columbia	47	48	58	117	142	49	54
Yukon, N.W.T., and Nunavut	--	--	--	--	--	1	1
Canada	631	533	684	675	641	544	814

TABLE 10. Federal government R&D payments to the higher education sector, by province and territories, 1995-96 to 2001-2002

Province and territories	Year						
	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001	2001-2002
millions of dollars							
Total sciences							
Newfoundland and Labrador	9	8	9	10	15	18	19
Prince Edward Island	1	1	1	1	2	2	2
Nova Scotia	23	20	20	23	36	31	27
New Brunswick	8	7	7	11	10	11	22
Quebec	206	205	185	209	252	291	412
Ontario	276	257	246	292	360	456	518
Manitoba	23	21	20	23	28	34	39
Saskatchewan	17	19	14	22	27	41	43
Alberta	73	74	73	85	104	114	159
British Columbia	131	120	120	131	149	152	200
Yukon, N.W.T., and Nunavut	0	0	0	0	0	0	0
Canada	768	733	695	807	983	1,150	1,441
Natural sciences							
Newfoundland and Labrador	8	7	9	9	13	16	15
Prince Edward Island	1	1	1	1	2	2	1
Nova Scotia	21	18	18	21	33	28	19
New Brunswick	7	6	7	10	9	10	9
Quebec	183	184	164	190	226	264	347
Ontario	248	234	221	267	327	419	432
Manitoba	21	19	19	21	25	32	32
Saskatchewan	16	18	13	21	26	40	37
Alberta	68	68	67	80	97	105	136
British Columbia	121	108	110	120	135	138	172
Yukon, N.W.T., and Nunavut	0	0	0	0	0	0	0
Canada	695	665	629	740	893	1,054	1,200

TABLE 11. Federal expenditures on extramural S&T, by science, activity and by province and territories, 2001-2002

Science/Activity	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T., & Nvt.	Canada
millions of dollars												
Total sciences												
<u>R&D</u>												
Grants	29	6	38	31	619	899	46	50	284	270	1	2,273
Contracts	1	0	13	1	68	126	10	8	12	13	1	253
Total	30	6	51	32	687	1,025	56	58	296	283	2	2,526
<u>S&T</u>												
Grants	31	6	59	34	780	1,001	50	65	302	289	2	2,619
Contracts	3	1	14	2	75	143	13	9	14	18	1	293
Total	34	7	73	36	855	1,144	63	74	316	307	3	2,912
Natural sciences												
<u>R&D</u>												
Grants	24	4	29	17	548	785	38	43	258	238	1	1,985
Contracts	1	0	13	1	67	123	10	8	12	13	0	248
Total	25	4	42	18	615	908	48	51	270	251	1	2,233
<u>S&T</u>												
Grants	24	4	46	18	553	824	39	56	264	243	1	2,072
Contracts	3	1	14	2	72	130	13	8	14	16	1	274
Total	27	5	60	20	625	954	52	64	278	259	2	2,346
Social sciences												
<u>R&D</u>												
Grants	5	1	9	14	71	114	8	7	26	32	1	288
Contracts	0	1	0	0	1	3	0	0	0	0	0	5
Total	5	2	9	14	72	117	8	7	26	32	1	293
<u>S&T</u>												
Grants	7	2	13	16	227	177	11	9	38	46	1	547
Contracts	0	0	0	0	3	13	0	1	0	2	0	19
Total	7	2	13	16	230	190	11	10	38	48	1	566

TABLE 12. Federal expenditures on extramural S&T, by department or agency and by province and territories, 2001-2002

Department or agency	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T., & Nvt.	Canada
millions of dollars												
ACOA	3	1	4	4	0	0	0	0	0	0	0	12
CED(QUE)	0	0	0	0	13	0	0	0	0	0	0	13
CFI	1	0	3	0	85	81	3	21	21	16	0	231
CIHR	3	1	12	0	135	183	15	5	55	42	0	451
CSA	0	0	0	0	27	93	9	6	3	6	0	144
ENV	1	0	1	1	5	10	2	2	53	4	1	80
F&O	2	0	1	0	0	1	0	0	0	3	0	7
FA&IT	0	0	0	0	0	10	0	0	0	0	0	10
GC	0	0	2	0	10	12	0	0	2	7	0	33
HC	1	0	1	1	7	13	1	2	2	2	1	31
HRDC	0	0	0	1	2	21	0	0	1	1	0	26
IND	3	0	0	0	280	263	0	0	3	20	0	569
NDEF	0	0	12	0	33	42	1	0	8	5	0	101
NRC	3	2	4	4	18	33	3	7	8	54	0	136
NRCan	1	0	1	2	9	17	1	5	53	8	0	97
NSERC	10	1	19	7	127	204	13	14	58	72	0	525
SSHRC	6	1	12	5	94	132	9	8	34	41	0	342
TC	0	0	0	0	4	5	0	0	1	0	0	10
WEDO	0	0	0	0	0	0	2	2	8	18	0	30
Other	0	1	1	11	6	24	4	2	6	8	1	64
TOTAL	34	7	73	36	855	1,144	63	74	316	307	3	2,912

TABLE 13. Federal expenditures on extramural R&D, by department or agency and by province and territories, 2001-2002

Department or agency	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T., & Nvt.	Canada
millions of dollars												
ACOA	3	1	4	4	0	0	0	0	0	0	0	12
CED (QUE)	0	0	0	0	13	0	0	0	0	0		13
CFI	1	0	3	0	85	81	3	21	21	16	0	231
CIHR	3	1	11	0	134	181	15	5	54	42	0	446
CSA	0	0	0	0	26	91	9	6	3	6	0	141
ENV	0	0	0	0	2	3	0	0	50	2	0	57
F&O	0	0	1	0	0	0	0	0	0	1	0	2
GC	0	0	2	0	10	12	0	0	2	7	0	33
HC	0	0	1	1	5	8	1	2	1	2	1	22
HRDC	0	0	0	0	1	16	0	0	1	1	0	19
IND	2	0	0	0	155	263	1	0	3	20	0	444
NDEF	0	0	12	0	33	42	1	0	8	5	0	101
NRC	4	2	4	4	18	33	3	6	8	54	0	136
NRCan	1	0	0	1	9	15	1	4	52	8	0	91
NSERC	10	1	3	7	125	173	13	3	56	71	0	462
SSHRC	5	0	8	3	65	89	6	6	24	29	0	235
TC	0	0	0	0	4	4	0	0	1	0	0	9
WEDO	0	0	0	0	0	0	2	2	8	18	0	30
Other	1	1	2	12	2	14	1	3	4	1	1	42
TOTAL	30	6	51	32	687	1,025	56	58	296	283	2	2,526

TABLE 14. Federal government grants and contracts to Canadian industry for R&D in the natural sciences, by province and territories, 2001-2002

Department or agency/ program	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T., & Nvt.	Canada
millions of dollars												
A. Grants												
ACOA	2.4	0.8	3.2	3.8	0	0	0	0	0	0	0	10.2
CED(QUE)	0	0	0	0	10.5	0	0	0	0	0	0	10.5
IND:												
TPC	2.6	0	0	0	154.5	108.5	1.1	0	2.9	20.1	0	289.7
Other	0	0	0	0	0	125.0	0	0	0	0	0	125.0
Total	2.6	0	0	0	154.5	233.5	1.1	0	2.9	20.1	0	414.7
NRC:												
IRAP	2.7	1.9	4.1	3.1	14.5	29.2	1.7	2.3	6.8	14.0	0.3	80.6
Total	2.7	1.9	4.1	3.1	14.5	29.2	1.7	2.3	6.8	14.0	0.3	80.6
WEDO	0	0	0	0	0	0	0.2	1.0	6.0	2.1	0	9.3
Other	0	0	0.2	0	9.3	42.9	0.2	0.3	1.1	6.4	0	60.4
Total	7.7	2.7	7.5	6.9	188.8	305.6	3.2	3.6	16.8	42.6	0.3	585.7
% of Grants	1.3	0.5	1.3	1.2	32.2	52.2	0.5	0.6	2.8	7.3	0.1	100.0
B. Contracts												
CSA	0.1	0	0.2	0.2	23.4	61.3	8.5	5.1	0.5	5.0	0	104.3
NDEF	0	0	12.0	0	31.8	40.3	0.5	0.1	7.7	4.1	0	96.5
NRCan	0	0.3	0	0.1	1.0	2.1	0	0	0.3	1.2	0	5.0
Other	0	0	0.3	0	7.4	11.7	0.9	0	0.5	1.3	0.2	22.3
Total	0.1	0.3	12.5	0.3	63.6	115.4	9.9	5.2	9.0	11.6	0.2	228.1
% of Contracts	0	0.1	5.5	0.1	27.9	50.6	4.3	2.3	4.0	5.1	0.1	100.0
Total, Grants and Contracts	7.8	3.0	20.0	7.2	252.4	421.0	13.1	8.8	25.8	54.2	0.5	813.8
% of Total	1.0	0.3	2.4	0.9	31.0	51.7	1.6	1.1	3.2	6.7	0.1	100.0

TABLE 15. Intramural expenditures of federal scientific establishments, by science, activity and by province and territories, 2001-2002

Province and territories	Natural sciences		Social sciences		Total sciences	
	R&D	S&T	R&D	S&T	R&D	S&T
millions of dollars						
Newfoundland and Labrador	27	59	0	2	27	61
Prince Edward Island	16	18	0	1	16	19
Nova Scotia	70	136	0	17	70	153
New Brunswick	26	45	0	1	26	46
Quebec	372	493	0	34	372	527
Ontario	326	465	2	35	328	500
Manitoba	77	139	0	9	77	148
Saskatchewan	63	87	0	3	63	90
Alberta	98	149	0	10	98	159
British Columbia	97	204	0	15	97	219
Yukon, N.W.T., and Nunavut	3	26	0	4	3	30
Canada (Excluding NCR)	1,175	1,821	2	131	1,177	1,952
National Capital Region	836	1,345	90	1,258	926	2,603
Quebec	33	137	8	156	41	293
Ontario	803	1,208	82	1,102	885	2,310
Canada (Including NCR)	2,011	3,166	92	1,389	2,103	4,555

TABLE 16. Intramural expenditures of federal scientific establishments, by department or agency, activity and by province and territories, 2001-2002

Department or agency	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T., & Nvt.	Canada	NCR
millions of dollars													
S&T													
AECL	0	0	0	0	0	153	11	0	0	0	0	164	4
AGR	2	14	11	13	56	35	23	38	55	18	0	265	60
CSA	0	0	0	0	144	0	0	0	0	0	0	144	18
ENV	3	0	15	6	86	189	29	23	24	42	5	422	84
F&O	38	3	58	12	33	26	29	1	3	73	6	282	25
HC	0	0	1	0	6	7	28	0	3	1	0	46	223
NDEF	0	0	18	0	54	13	0	0	13	0	0	98	44
NRC	11	0	18	1	68	18	16	20	5	29	0	186	384
NRCan	2	0	13	11	36	23	1	1	36	35	13	171	284
STC	0	0	10	0	12	19	4	2	7	10	0	64	662
Other	5	2	9	3	32	17	7	5	13	11	6	110	815
TOTAL	61	19	153	46	527	500	148	90	159	219	30	1,952	2,603
R&D													
AECL	0	0	0	0	0	153	11	0	0	0	0	164	4
AGR	2	14	11	13	56	35	23	38	55	18	0	265	53
CSA	0	0	0	0	141	0	0	0	0	0	0	141	11
ENV	1	0	3	1	18	80	3	6	2	8	0	122	25
F&O	14	1	22	5	13	10	12	1	1	29	2	110	9
NDEF	0	0	15	0	54	13	0	0	13	0	0	95	44
NRC	9	0	14	0	55	14	13	17	0	23	0	145	351
NRCan	1	0	3	7	22	21	0	0	21	18	1	94	149
Other	0	1	2	0	13	2	15	1	6	1	0	41	280
TOTAL	27	16	70	26	372	328	77	63	98	97	3	1,177	926

TABLE 17. Intramural expenditures of federal scientific establishments performing natural science activities, by department or agency, activity and by province and territories, 2001-2002

Department or agency	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T., & Nvt.	Canada	NCR
millions of dollars													
S&T													
AECL	0	0	0	0	0	153	11	0	0	0	0	164	4
AGR	2	14	11	13	56	35	23	38	55	18	0	265	54
CSA	0	0	0	0	144	0	0	0	0	0	0	144	18
ENV	3	0	15	6	83	188	29	23	24	42	5	418	82
F&O	36	3	56	12	32	26	29	1	3	72	5	275	21
HC	0	0	1	0	6	7	28	0	3	1	0	46	210
NDEF	0	0	18	0	54	11	0	0	14	0	0	97	44
NRC	11	0	18	1	68	18	16	20	5	29	0	186	384
NRCan	2	0	13	11	36	23	1	1	36	35	13	171	284
Other	5	1	4	2	14	4	2	4	9	7	3	55	244
TOTAL	59	18	136	45	493	465	139	87	149	204	26	1,821	1,345
R&D													
AECL	0	0	0	0	0	153	11	0	0	0	0	164	4
AGR	2	14	11	13	56	35	23	38	55	18	0	265	53
CSA	0	0	0	0	141	0	0	0	0	0	0	141	11
ENV	1	0	3	1	18	80	3	6	2	8	0	122	25
F&O	14	1	22	5	13	10	12	1	1	29	2	110	9
HC	0	0	0	0	2	2	15	0	3	0	0	22	43
NDEF	0	0	15	0	54	11	0	0	13	0	0	93	44
NRC	9	0	14	0	55	14	13	17	0	23	0	145	351
NRCan	1	0	3	7	22	21	0	0	21	18	1	94	149
Other	0	1	2	0	11	0	0	1	3	1	0	19	147
TOTAL	27	16	70	26	372	326	77	63	98	97	3	1,175	836

TABLE 18. Personnel of federal establishments performing S&T activities, by science, activity, category and by province and territories, 2001-2002

Science / Activity / Category	N.L.	P.E.I.	N.S.	N.B.	Que.*	Ont.*	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T., & Nvt.	Sub-Total	NCR	Total
person-years														
Total sciences														
<u>R&D</u> S&P	81	33	209	70	853	933	215	173	290	286	6	3,149	2,457	5,606
TOTAL (R&D)	218	131	596	218	2,114	2,050	534	528	874	642	17	7,922	5,817	13,739
<u>S&T</u> S&P	190	43	478	150	1,165	1,325	393	224	469	618	83	5,138	7,960	13,098
TOTAL (S&T)	499	161	1,271	397	3,061	3,291	1,051	720	1,327	1,564	203	13,545	20,490	34,035
Natural sciences														
<u>R&D</u> S&P	81	33	209	70	851	914	215	173	290	286	6	3,128	2,122	5,250
TOTAL (R&D)	218	131	596	218	2,109	2,024	534	528	874	642	17	7,891	5,149	13,040
<u>S&T</u> S&P	179	39	454	144	1,125	1,259	373	222	456	599	75	4,925	4,669	9,594
TOTAL (S&T)	461	150	1,100	379	2,847	2,932	949	691	1,242	1,429	160	12,340	9,901	22,241
Social sciences														
<u>R&D</u> S&P	0	0	0	0	2	19	0	0	0	0	0	21	335	356
TOTAL (R&D)	0	0	0	0	5	26	0	0	0	0	0	31	668	699
<u>S&T</u> S&P	11	4	24	6	40	66	20	2	13	19	8	213	3,291	3,504
TOTAL (S&T)	38	11	171	18	214	359	102	29	85	135	43	1,205	10,589	11,794

* Excluding the National Capital Region.

TABLE 19. Personnel of federal establishments performing S&T activities, by department or agency and by province and territories, 2001-2002

Department or agency	N.L.	P.E.I.	N.S.	N.B.	Que.*	Ont.*	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T. & Nvt.	Sub-Total	NCR	Total
	person-years ¹													
ACOA	6	3	7	14	0	0	0	0	0	0	0	30	0	30
AECL	0	0	0	0	0	869	65	0	0	0	0	934	16	950
AGR	21	113	93	107	461	295	185	313	464	152	0	2,203	517	2,720
BC	0	0	3	0	3	6	0	0	2	2	0	16	222	238
CCRA	2	0	0	0	3	5	9	0	0	3	0	22	96	118
CED(QUE)	0	0	0	0	32	0	0	0	0	0	0	32	0	32
CFIA	16	7	33	9	51	20	10	62	49	35	0	293	137	430
CIDA	0	0	0	0	0	0	0	0	0	0	0	0	203	203
CIHR	0	0	0	0	0	0	0	0	0	0	0	0	173	173
CMC	0	0	0	0	0	0	0	0	0	0	0	0	421	421
CMHC	0	0	5	0	12	19	0	0	12	10	0	58	55	113
CMN	0	0	0	0	0	0	0	0	0	0	0	0	164	164
CNSC	0	0	0	0	0	0	0	0	0	0	0	0	8	8
COL	0	0	0	0	0	0	0	0	0	0	0	0	9	9
CSA	0	0	0	0	407	0	0	0	0	0	0	407	54	461
CSTM	0	0	0	0	0	0	0	0	0	0	0	0	261	261
ENV	26	2	122	46	484	1,014	169	142	160	289	52	2,506	507	3,013
F&O	299	29	447	100	259	200	221	10	21	553	42	2,179	194	2,373
FA&IT	0	0	0	0	0	0	0	0	0	0	0	0	57	57
FIN	0	0	0	0	0	0	0	0	0	0	0	0	270	270
GC	0	0	0	0	0	0	0	0	0	0	0	0	22	22
HC	0	0	6	0	55	90	168	0	9	16	0	344	2,127	2,471
HRDC	0	0	0	0	0	0	0	0	0	0	0	0	476	476
IAND	0	0	0	0	0	0	0	0	0	0	0	0	6	6
IDRC	0	0	0	0	0	0	0	0	0	0	0	0	142	142
IND	0	0	0	0	0	0	0	0	0	0	0	0	950	950
JUS	0	0	0	0	0	0	0	0	0	0	0	0	58	58
NA	0	0	0	0	0	0	0	0	0	0	0	0	601	601
NDEF	0	0	212	0	371	168	1	0	164	0	0	916	512	1,428
NEB	0	0	0	0	0	0	0	0	11	0	0	11	0	11
NGC	0	0	0	0	0	0	0	0	0	0	0	0	254	254
NL	0	0	0	0	0	0	0	0	0	0	0	0	465	465
NRC	82	2	100	5	416	89	105	148	5	155	0	1,107	2,505	3,612
NRCan	22	0	89	101	307	186	3	6	323	212	35	1,284	1,877	3,161
NSERC	0	0	0	0	0	0	0	0	0	0	0	0	264	264
PCA	25	5	69	15	73	169	80	19	41	46	74	616	187	803
PW&GS	0	0	0	0	0	0	0	0	0	0	0	0	61	61
SGEN	0	0	0	0	0	0	0	0	0	0	0	0	35	35
SSHRC	0	0	0	0	0	0	0	0	0	0	0	0	148	148
STC	0	0	85	0	105	161	35	20	61	91	0	559	5,761	6,320
TB	0	0	0	0	0	0	0	0	0	0	0	0	464	464
TC	0	0	0	0	20	0	0	0	0	0	0	20	43	63
WEDO	0	0	0	0	0	0	0	0	5	0	0	5	0	5
Other	0	0	0	0	2	0	0	0	0	0	0	3	168	171
TOTAL	499	161	1,271	397	3,061	3,291	1,051	720	1,327	1,564	203	13,545	20,490	34,035

* Excluding the National Capital Region.

¹ Including Administration of Extramural Programs Personnel.

TABLE 20. Scientific and professional personnel of federal establishments performing S&T activities, by department or agency and by province and territories, 2001-2002

Department or agency	N.L.	P.E.I.	N.S.	N.B.	Que.*	Ont.*	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T., & Nvt.	Sub- Total	NCR	Total
person-years ¹														
AECL	0	0	0	0	0	464	33	0	0	0	0	497	2	499
AGR	5	27	22	26	110	70	44	75	111	36	0	526	148	674
CCRA	2	0	0	0	3	5	9	0	0	3	0	22	96	118
CFIA	4	3	13	3	20	7	5	18	12	12	0	97	42	139
CMC	0	0	0	0	0	0	0	0	0	0	0	0	77	77
CMHC	0	0	3	0	8	12	0	0	8	8	0	40	42	80
CMN	0	0	0	0	0	0	0	0	0	0	0	0	95	95
CSA	0	0	0	0	179	0	0	0	0	0	0	179	28	207
CSTM	0	0	0	0	0	0	0	0	0	0	0	0	22	22
ENV	20	1	95	35	218	462	82	70	79	123	25	1,210	261	1,471
F&O	111	11	171	39	104	76	84	4	8	211	16	834	88	922
FIN	0	0	0	0	0	0	0	0	0	0	0	0	214	214
HC	0	0	2	0	26	37	57	0	6	1	0	129	1,381	1,510
HRDC	0	0	0	0	0	0	0	0	0	0	0	0	311	311
IND	0	0	0	0	0	0	0	0	0	0	0	0	415	415
NA	0	0	0	0	0	0	0	0	0	0	0	0	114	114
NDEF	0	0	74	0	132	48	0	0	42	0	0	296	289	585
NGC	0	0	0	0	0	0	0	0	0	0	0	0	38	38
NL	0	0	0	0	0	0	0	0	0	0	0	0	212	212
NRC	26	0	26	0	149	20	53	47	0	65	0	386	1,006	1,392
NRCan	11	0	52	41	179	79	1	3	170	139	16	691	978	1,669
PCA	11	1	18	6	17	41	25	7	21	19	26	193	62	255
STC	0	0	0	0	0	0	0	0	0	0	0	0	1,391	1,391
Other	0	0	2	0	20	4	0	0	12	1	0	40	648	688
TOTAL	190	43	478	150	1,165	1,325	393	224	469	618	83	5,138	7,960	13,098

* Excluding the National Capital Region.

¹ Including Administration of Extramural Programs Personnel.

TABLE 21. Personnel of federal establishments performing R&D activities, by department or agency and by province and territories, 2001-2002

Department or agency	N.L.	P.E.I.	N.S.	N.B.	Que.*	Ont.*	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T., & Nvt.	Sub-Total	NCR	Total
person-years ¹														
AECL	0	0	0	0	0	869	65	0	0	0	0	934	16	950
AGR	21	113	93	107	461	295	185	313	464	152	0	2,203	461	2,664
CSA	0	0	0	0	385	0	0	0	0	0	0	385	31	416
ENV	2	0	8	3	158	400	16	52	14	48	0	701	143	844
F&O	108	8	168	35	96	79	87	4	8	215	17	825	70	895
HC	0	0	1	0	19	34	89	0	7	0	0	150	515	665
IDRC	0	0	0	0	0	0	0	0	0	0	0	0	118	118
IND	0	0	0	0	0	0	0	0	0	0	0	0	422	422
NDEF	0	0	212	0	371	168	0	0	164	0	0	915	383	1,298
NRC	67	0	83	0	352	66	87	128	0	112	0	895	1,612	2,507
NRCan	13	0	23	59	212	139	0	3	203	107	0	759	930	1,689
NSERC	0	0	0	0	0	0	0	0	0	0	0	0	233	233
STC	0	0	0	0	0	0	0	0	0	0	0	0	194	194
Other	7	10	8	14	60	0	5	28	14	8	0	155	689	844
TOTAL	218	131	596	218	2,114	2,050	534	528	874	642	17	7,922	5,817	13,739

* Excluding the National Capital Region.

¹ Including Administration of Extramural Programs Personnel.

TABLE 22. Scientific and professional personnel of federal establishments performing R&D activities, by department or agency and by province and territories, 2001-2002

Department or agency	N.L.	P.E.I.	N.S.	N.B.	Que.*	Ont.*	Man.	Sask.	Alta.	B.C.	Yukon, N.W.T., & Nvt.	Sub-Total	NCR	Total
person-years ¹														
AECL	0	0	0	0	0	464	33	0	0	0	0	497	2	499
AGR	5	27	22	26	110	70	44	75	111	36	0	526	110	636
CSA	0	0	0	0	178	0	0	0	0	0	0	178	25	203
ENV	2	0	8	3	85	232	16	37	13	25	0	421	91	512
F&O	40	3	63	13	36	29	33	2	3	81	6	309	32	341
HC	0	0	1	0	15	18	33	0	4	0	0	71	282	353
IND	0	0	0	0	0	0	0	0	0	0	0	0	171	171
NDEF	0	0	74	0	132	48	0	0	42	0	0	296	233	529
NRC	26	0	26	0	149	0	53	47	0	65	0	366	600	966
NRCan	8	0	14	28	123	72	0	2	112	77	0	436	475	911
NSERC	0	0	0	0	0	0	0	0	0	0	0	0	11	11
STC	0	0	0	0	0	0	0	0	0	0	0	0	124	124
Other	0	3	1	0	25	0	3	10	5	2	0	49	301	350
TOTAL	81	33	209	70	853	933	215	173	290	286	6	3,149	2,457	5,606

* Excluding the National Capital Region.

¹ Including Administration of Extramural Programs Personnel.

TABLE 23. Staff and expenditures of scientific establishments, by the department or agency and by province and territories, 2001-2002

Department or agency / province	Natural sciences				Social sciences			
	Staff		Intramural expenditures		Staff		Intramural expenditures	
	R&D	Total	R&D	Total	R&D	Total	R&D	Total
	person-years		millions of dollars		person-years		millions of dollars	
ACOA								
N.L.	6	6	0	0	0	0	0	0
P.E.I.	3	3	0	0	0	0	0	0
N.S.	7	7	1	1	0	0	0	0
N.B.	14	14	1	1	0	0	0	0
ACOA - TOTAL	30	30	2	2	0	0	0	0
AECL								
Ontario*	869	869	153	153	0	0	0	0
Manitoba	65	65	11	11	0	0	0	0
NCR (Ontario)	16	16	4	4	0	0	0	0
AECL - TOTAL	950	950	168	168	0	0	0	0
AGR								
N.L.	21	21	2	2	0	0	0	0
P.E.I.	113	113	14	14	0	0	0	0
N.S.	93	93	11	11	0	0	0	0
N.B.	107	107	13	13	0	0	0	0
Quebec*	460	460	56	56	0	0	0	0
Ontario*	295	295	35	35	0	0	0	0
Manitoba	185	185	23	23	0	0	0	0
Saskatchewan	313	313	38	38	0	0	0	0
Alberta	464	464	55	55	0	0	0	0
B.C.	152	152	18	18	0	0	0	0
NCR (Ontario)	461	461	53	54	0	56	0	6
AGR - TOTAL	2,664	2,664	318	319	0	56	0	6
BC								
N.S.	0	0	0	0	0	3	0	0
Quebec*	0	0	0	0	0	3	0	1
Ontario*	0	0	0	0	0	6	0	1
Alberta	0	0	0	0	0	2	0	0
B.C.	0	0	0	0	0	2	0	1
NCR (Ontario)	0	0	0	0	59	222	13	45
BC - TOTAL	0	0	0	0	59	238	13	48
C&I								
NCR (Ontario)	0	0	0	0	0	24	0	3
CCMD								
NCR (Ontario)	0	0	0	0	0	8	0	1
CCRA								
N.L.	0	0	0	0	0	2	0	0
Quebec*	0	0	0	0	0	3	0	0
Ontario*	0	0	0	0	0	5	0	0
Manitoba	0	0	0	0	0	9	0	1
B.C.	0	0	0	0	0	3	0	0
NCR (Ontario)	0	0	0	0	0	96	0	8
CCRA - TOTAL	0	0	0	0	0	118	0	9
CED(QUE)								
Quebec*	32	32	4	4	0	0	0	0

TABLE 23. Staff and expenditures of scientific establishments, by the department or agency and by province and territories, 2001-2002 – Continued

Department or agency / province	Natural sciences				Social sciences			
	Staff		Intramural expenditures		Staff		Intramural expenditures	
	R&D	Total	R&D	Total	R&D	Total	R&D	Total
	person-years		millions of dollars		millions of dollars	person-years		millions of dollars
CFI								
NCR (Ontario)	30	30	8	8	0	0	0	0
CFIA								
N.L.	0	16	0	1	0	0	0	0
P.E.I.	8	8	1	1	0	0	0	0
N.S.	1	33	0	3	0	0	0	0
N.B.	0	9	0	1	0	0	0	0
Quebec*	12	51	1	3	0	0	0	0
Ontario	0	20	0	1	0	0	0	0
Manitoba	5	10	1	1	0	0	0	0
Saskatchewan	28	62	1	3	0	0	0	0
Alberta	8	49	1	6	0	0	0	0
B.C.	8	35	1	4	0	0	0	0
NCR (Ontario)	45	137	6	13	0	0	0	0
CFIA - TOTAL	115	430	12	37	0	0	0	0
CIDA								
NCR (Quebec)	18	118	1	10	5	85	1	7
CIHR								
NCR (Ontario)	169	173	32	32	0	0	0	0
CMC								
NCR (Quebec)	0	0	0	0	51	391	5	57
NCR (Ontario)	0	0	0	0	1	30	0	7
CMC - TOTAL	0	0	0	0	52	421	5	64
CMHC								
N.S.	0	2	0	0	0	3	0	0
Quebec*	0	4	0	0	0	8	0	1
Ontario*	0	6	0	1	0	13	0	1
Alberta	0	3	0	0	0	7	0	1
B.C.	0	4	0	0	0	8	0	1
NCR (Ontario)	15	17	2	4	17	38	3	9
CMHC - TOTAL	15	36	2	5	17	77	3	13
CMN								
NCR (Quebec)	23	131	2	23	0	0	0	0
NCR (Ontario)	0	33	1	5	0	0	0	0
CMN - TOTAL	23	164	3	28	0	0	0	0
CNSC								
NCR (Ontario)	3	8	0	1	0	0	0	0
COL								
(Ontario)	0	0	0	0	0	9	0	1
CSA								
Quebec*	385	407	141	144	0	0	0	0
NCR (Ontario)	31	54	11	18	0	0	0	0
CSA - TOTAL	416	461	152	162	0	0	0	0

TABLE 23. Staff and expenditures of scientific establishments, by the department or agency and by province and territories, 2001-2002 – Continued

Department or agency / province	Natural sciences				Social sciences			
	Staff		Intramural expenditures		Staff		Intramural expenditures	
	R&D	Total	R&D	Total	R&D	Total	R&D	Total
	person-years		millions of dollars		millions of dollars	person-years		millions of dollars
CSTM								
NCR (Ontario)	0	0	0	0	0	261	0	29
ENV								
N.L.	2	26	1	3	0	0	0	0
P.E.I.	0	2	0	0	0	0	0	0
N.S.	8	122	3	15	0	0	0	0
N.B.	3	46	1	6	0	0	0	0
Quebec*	153	470	18	83	5	14	1	3
Ontario*	400	1,014	80	188	0	0	0	0
Manitoba	16	169	3	29	0	0	0	0
Saskatchewan	52	142	6	23	0	0	0	0
Alberta	14	160	2	24	0	0	0	0
B.C.	48	289	8	42	0	0	0	0
Yk., N.W.T. & Nvt.	0	52	0	5	0	0	0	0
NCR (Quebec)	132	339	24	51	0	3	0	0
NCR (Ontario)	11	154	1	31	0	11	0	2
ENV - TOTAL	839	2,985	147	500	5	28	1	5
F&O								
N.L.	108	271	14	36	0	28	0	2
P.E.I.	8	21	1	3	0	8	0	0
N.S.	168	424	22	56	0	23	0	2
N.B.	35	88	5	12	0	12	0	1
Quebec*	96	242	13	32	0	16	0	1
Ontario*	79	198	10	26	0	2	0	0
Manitoba	87	219	12	29	0	2	0	0
Saskatchewan	4	10	1	1	0	0	0	0
Alberta	8	21	1	3	0	0	0	0
B.C.	215	542	29	72	0	10	0	1
Yk., N.W.T. & Nvt.	17	42	2	5	0	0	0	0
NCR (Ontario)	69	156	9	21	1	38	0	4
F&O - TOTAL	894	2,234	119	296	1	139	0	11
FA & IT								
NCR (Ontario)	0	0	0	0	0	57	0	11
FIN								
NCR (Ontario)	0	0	0	0	0	270	0	28
GC								
NCR (Ontario)	20	20	1	1	2	2	0	0
HC								
N.S.	1	6	0	1	0	0	0	0
Quebec*	19	55	2	6	0	0	0	0
Ontario*	34	90	2	7	0	0	0	0
Manitoba	89	168	15	28	0	0	0	0
Alberta	7	9	3	3	0	0	0	0
B.C.	0	16	0	1	0	0	0	0
NCR (Ontario)	437	1,937	43	210	78	188	7	13
NCR (Quebec)	0	2	0	0	0	0	0	0
HC - TOTAL	587	2,283	65	256	78	188	7	13

TABLE 23. Staff and expenditures of scientific establishments, by the department or agency and by province and territories, 2001-2002 – Continued

Department or agency / province	Natural sciences				Social sciences			
	Staff		Intramural expenditures		Staff		Intramural expenditures	
	R&D	Total	R&D	Total	R&D	Total	R&D	Total
	person-years		millions of dollars		person-years		millions of dollars	
HRDC								
NCR (Ontario)	0	0	0	0	3	6	0	1
NCR (Quebec)	0	0	0	0	7	470	1	37
HRDC - TOTAL	0	0	0	0	10	476	1	38
IAND								
NCR (Quebec)	0	6	0	1	0	0	0	0
IDRC								
NCR (Ontario)	36	40	9	10	81	102	21	28
IND								
NCR (Quebec)	0	340	0	40	15	15	2	2
NCR (Ontario)	407	407	47	47	0	188	0	18
IND - TOTAL	407	747	47	87	15	203	2	20
JUS								
NCR (Ontario)	0	0	0	0	0	58	0	10
NA								
NCR (Quebec)	0	0	0	0	0	114	0	9
NCR (Ontario)	0	0	0	0	0	487	0	46
NA - Total	0	0	0	0	0	601	0	55
NDEF								
N.S.	212	212	15	18	0	0	0	0
Quebec*	371	371	54	54	0	0	0	0
Ontario*	142	142	11	11	26	26	2	2
Manitoba	0	1	0	0	0	0	0	0
Alberta	164	164	13	14	0	0	0	0
NCR (Quebec)	9	14	1	1	0	0	0	0
NCR (Ontario)	369	493	43	43	5	5	0	0
NDEF - TOTAL	1,267	1,397	137	141	31	31	2	2
NEB								
Alberta	0	6	0	1	0	5	0	1
NFB								
Quebec*	2	2	1	1	0	0	0	0
NGC								
NCR (Ontario)	0	0	0	0	44	254	9	45
NL								
NCR (Quebec)	0	0	0	0	0	181	0	14
NCR (Ontario)	0	0	0	0	0	284	0	39
NL - TOTAL	0	0	0	0	0	465	0	53

TABLE 23. Staff and expenditures of scientific establishments, by the department or agency and by province and territories, 2001-2002 – Continued

Department or agency / province	Natural sciences				Social sciences			
	Staff		Intramural expenditures		Staff		Intramural expenditures	
	R&D	Total	R&D	Total	R&D	Total	R&D	Total
	person-years		millions of dollars		person-years		millions of dollars	
NRC								
N.L.	67	82	9	11	0	0	0	0
P.E.I.	0	2	0	0	0	0	0	0
N.S.	83	100	14	18	0	0	0	0
N.B.	0	5	0	1	0	0	0	0
Quebec*	352	416	55	68	0	0	0	0
Ontario*	66	89	14	18	0	0	0	0
Manitoba	87	105	13	16	0	0	0	0
Saskatchewan	128	148	17	20	0	0	0	0
Alberta	0	5	0	5	0	0	0	0
B.C.	112	155	23	29	0	0	0	0
NCR (Ontario)	1,612	2,505	351	384	0	0	0	0
NRC - TOTAL	2,507	3,612	496	570	0	0	0	0
NRCan								
N.L.	13	22	1	2	0	0	0	0
N.S.	23	89	3	13	0	0	0	0
N.B.	59	101	7	11	0	0	0	0
Quebec*	212	307	22	36	0	0	0	0
Ontario*	139	186	21	23	0	0	0	0
Manitoba	0	3	0	1	0	0	0	0
Saskatchewan	3	6	0	1	0	0	0	0
Alberta	203	323	21	36	0	0	0	0
B.C.	107	212	18	35	0	0	0	0
Yk., N.W.T. & Nvt.	0	35	1	13	0	0	0	0
NCR (Ontario)	930	1,877	149	284	0	0	0	0
NRCan - TOTAL	1,689	3,161	243	455	0	0	0	0
NSERC								
NCR (Ontario)	233	264	30	35	0	0	0	0
PC								
NCR (Ontario)	0	0	0	0	0	28	0	3
PCA								
N.L.	0	17	0	1	0	8	0	1
P.E.I.	0	2	0	0	0	3	0	0
N.S.	0	12	0	1	0	57	0	4
N.B.	0	9	0	1	0	6	0	1
Quebec*	0	9	0	1	0	64	0	16
Ontario*	0	23	0	1	0	146	0	12
Manitoba	0	24	0	2	0	56	0	4
Saskatchewan	0	10	0	1	0	9	0	1
Alberta	0	32	0	2	0	9	0	1
B.C.	0	25	0	2	0	21	0	2
Yk., N.W.T. & Nvt.	0	31	0	2	0	43	0	4
NCR (Quebec)	0	66	0	5	0	121	0	27
PCA - TOTAL	0	260	0	19	0	543	0	73

TABLE 23. Staff and expenditures of scientific establishments, by the department or agency and by province and territories, 2001-2002 – Concluded

Department or agency / province	Natural sciences				Social sciences				
	Staff		Intramural expenditures		Staff		Intramural expenditures		
	R&D	Total	R&D	Total	R&D	Total	R&D	Total	
	person-years		millions of dollars		millions of dollars		millions of dollars		
PSC									
NCR (Ontario)	0	0	0	0	0	71	0	7	
PW&GS									
NCR (Quebec)	37	61	4	6	0	0	0	0	
RCMP									
N.S.	1	1	0	0	0	0	0	0	
NCR (Ontario)	5	7	1	1	0	0	0	0	
RCMP TOTAL	6	8	1	1	0	0	0	0	
SGEN									
NCR (Ontario)	0	0	0	0	28	35	2	3	
SSHRC									
NCR (Ontario)	0	0	0	0	77	148	9	18	
STC									
N.S.	0	0	0	0	0	85	0	10	
Quebec*	0	0	0	0	0	105	0	12	
Ontario*	0	0	0	0	0	162	0	19	
Manitoba	0	0	0	0	0	35	0	4	
Saskatchewan	0	0	0	0	0	20	0	2	
Alberta	0	0	0	0	0	61	0	7	
B.C.	0	0	0	0	0	91	0	11	
NCR (Ontario)	0	0	0	0	194	5,761	16	661	
STC - TOTAL	0	0	0	0	194	6,320	16	726	
TB									
NCR (Ontario)	0	0	0	0	0	464	0	57	
TC									
Quebec*	15	20	5	6	0	0	0	0	
NCR (Ontario)	31	34	4	4	0	9	0	1	
TC- TOTAL	46	54	9	10	0	9	0	1	
WEDO									
Alberta	5	5	0	0	0	0	0	0	
TOTAL	13,040	22,241	2,011	3,166	699	11,794	92	1,389	

* Excluding National Capital Region.

TABLE 24. Staff and expenditures of scientific establishments, by province and territories and by department or agency, 2001-2002

Province / Department or agency	Natural sciences				Social sciences			
	Staff		Intramural expenditures		Staff		Intramural expenditures	
	R&D	Total	R&D	Total	R&D	Total	R&D	Total
	person-years		millions of dollars		person-years		millions of dollars	
Newfoundland & Labrador:								
ACOA	6	6	1	1	0	0	0	0
AGR	21	21	2	3	0	0	0	0
CCRA	0	0	0	0	0	2	0	0
CFIA	1	16	0	2	0	0	0	0
ENV	2	26	1	3	0	0	0	0
F&O	108	271	14	36	0	28	0	1
HC	0	0	0	0	0	0	0	0
NRC	67	82	9	11	0	0	0	0
NRCan	13	22	1	2	0	0	0	0
PCA	0	17	0	1	0	8	0	1
TOTAL	218	461	28	59	0	38	0	2
Prince Edward Island:								
ACOA	3	3	0	0	0	0	0	0
AGR	113	113	14	14	0	0	0	0
CFIA	7	7	1	1	0	0	0	0
ENV	0	2	0	0	0	0	0	0
F&O	8	21	1	3	0	8	0	1
NRC	0	2	0	0	0	0	0	0
PCA	0	2	0	0	0	3	0	0
TOTAL	131	150	16	18	0	11	0	1
Nova Scotia:								
ACOA	7	7	1	1	0	0	0	0
AGR	93	93	11	11	0	0	0	0
BC	0	0	0	0	0	3	0	0
CFIA	1	33	0	2	0	0	0	0
CMHC	0	2	0	0	0	3	0	0
ENV	8	122	3	15	0	0	0	0
F&O	168	424	23	56	0	23	0	2
HC	1	6	0	1	0	0	0	0
NDEF	212	212	15	18	0	0	0	0
NRC	83	100	14	18	0	0	0	0
NRCan	23	89	3	13	0	0	0	0
PCA	0	12	0	1	0	57	0	5
STC	0	0	0	0	0	85	0	10
TOTAL	596	1,100	70	136	0	171	0	17
New Brunswick:								
ACOA	14	14	1	1	0	0	0	0
AGR	107	107	12	13	0	0	0	0
CFIA	0	9	0	1	0	0	0	0
ENV	3	46	1	6	0	0	0	0
F&O	35	88	5	11	0	12	0	1
NRC	0	5	0	1	0	0	0	0
NRCan	59	101	7	11	0	0	0	0
PCA	0	9	0	1	0	6	0	0
TOTAL	218	379	26	45	0	18	0	1

TABLE 24. Staff and expenditures of scientific establishments, by province and territories and by department or agency, 2001-2002 - Continued

Province / Department or agency	Natural sciences				Social sciences			
	Staff		Intramural expenditures		Staff		Intramural expenditures	
	R&D	Total	R&D	Total	R&D	Total	R&D	Total
	person-years		millions of dollars		person-years		millions of dollars	
Quebec*:								
AGR	461	461	56	56	0	0	0	0
BC	0	0	0	0	0	3	0	1
CCRA	0	0	0	0	0	3	0	0
CED(QUE)	32	32	4	4	0	0	0	0
CFIA	11	51	1	3	0	0	0	0
CMHC	0	4	0	0	0	8	0	1
CSA	385	407	141	144	0	0	0	0
ENV	153	470	18	83	5	14	0	3
F&O	96	242	13	32	0	17	0	1
HC	19	55	2	6	0	0	0	0
NDEF	371	371	54	54	0	0	0	0
NFB	2	2	1	1	0	0	0	0
NRC	352	416	55	68	0	0	0	0
NRCan	212	307	22	36	0	0	0	0
PCA	0	9	0	1	0	64	0	16
STC	0	0	0	0	0	105	0	12
TC	15	20	5	5	0	0	0	0
TOTAL	2,109	2,847	372	493	5	214	0	34
Ontario*:								
AECL	869	869	153	153	0	0	0	0
AGR	295	295	35	35	0	0	0	0
BC	0	0	0	0	0	6	0	1
CCRA	0	0	0	0	0	5	0	0
CFIA	0	20	0	1	0	0	0	0
CMHC	0	6	0	1	0	13	0	1
ENV	400	1,014	80	188	0	0	0	0
F&O	79	198	10	26	0	2	0	0
HC	34	90	2	7	0	0	0	0
NDEF	142	142	11	11	26	26	2	2
NRC	66	89	14	18	0	0	0	0
NRCan	139	186	21	23	0	0	0	0
PCA	0	23	0	2	0	146	0	12
STC	0	0	0	0	0	161	0	19
TOTAL	2,024	2,932	326	465	26	359	2	35
Manitoba:								
AECL	65	65	11	11	0	0	0	0
AGR	185	185	23	23	0	0	0	0
CCRA	0	0	0	0	0	9	0	1
CFIA	5	10	0	1	0	0	0	0
ENV	16	169	3	29	0	0	0	0
F&O	87	219	12	29	0	2	0	0
HC	89	168	15	28	0	0	0	0
NDEF	0	1	0	0	0	0	0	0
NRC	87	105	13	16	0	0	0	0
NRCan	0	3	0	1	0	0	0	0
PCA	0	24	0	1	0	56	0	4
STC	0	0	0	0	0	35	0	4
TOTAL	534	949	77	139	0	102	0	9

TABLE 24. Staff and expenditures of scientific establishments, by province and territories and by department or agency, 2001-2002 - Continued

Province / Department or agency	Natural sciences				Social sciences			
	Staff		Intramural expenditures		Staff		Intramural expenditures	
	R&D	Total	R&D	Total	R&D	Total	R&D	Total
	person-years		millions of dollars		person-years		millions of dollars	
Saskatchewan:								
AGR	313	313	38	38	0	0	0	0
CFIA	28	62	1	3	0	0	0	0
ENV	52	142	6	23	0	0	0	0
F&O	4	10	1	1	0	0	0	0
NRC	128	148	17	20	0	0	0	0
NRCan	3	6	0	1	0	0	0	0
PCA	0	10	0	1	0	9	0	1
STC	0	0	0	0	0	20	0	2
TOTAL	528	691	63	87	0	29	0	3
Alberta:								
AGR	464	464	55	55	0	0	0	0
BC	0	0	0	0	0	2	0	0
CFIA	8	49	1	6	0	0	0	0
CMHC	0	4	0	0	0	8	0	1
ENV	14	160	3	24	0	0	0	0
F&O	8	21	1	3	0	0	0	0
HC	7	9	3	3	0	0	0	0
NDEF	164	164	14	14	0	0	0	0
NEB	0	6	0	1	0	5	0	1
NRC	0	5	0	5	0	0	0	0
NRCan	203	323	21	36	0	0	0	0
PCA	0	32	0	2	0	9	0	1
RCMP	1	0	0	0	0	0	0	0
STC	0	0	0	0	0	61	0	7
WEDO	5	5	0	0	0	0	0	0
TOTAL	874	1,242	98	149	0	85	0	10
British Columbia:								
AGR	152	152	18	18	0	0	0	0
BC	0	0	0	0	0	2	0	0
CCRA	0	0	0	0	0	3	0	0
CFIA	8	35	1	4	0	0	0	0
CMHC	0	3	0	1	0	7	0	1
ENV	48	289	8	42	0	0	0	0
F&O	215	542	29	72	0	11	0	1
HC	0	16	0	1	0	0	0	0
NRC	112	155	23	29	0	0	0	0
NRCan	107	212	18	35	0	0	0	0
PCA	0	25	0	2	0	21	0	2
STC	0	0	0	0	0	91	0	11
TOTAL	642	1,429	97	204	0	135	0	15
Yukon, Northwest Territories, and Nunavut:								
ENV	0	52	0	5	0	0	0	0
F&O	17	42	2	5	0	0	0	0
NRCan	0	35	1	13	0	0	0	0
PCA	0	31	0	3	0	43	0	4
TOTAL	17	160	3	26	0	43	0	4

TABLE 24. Staff and expenditures of scientific establishments, by province and territories and by department or agency, 2001-2002 - Concluded

Province / Department or agency	Natural sciences				Social sciences			
	Staff		Intramural expenditures		Staff		Intramural expenditures	
	R&D	Total	R&D	Total	R&D	Total	R&D	Total
	person-years		millions of dollars		person-years		millions of dollars	
National Capital Region:								
AECL	16	16	4	4	0	0	0	0
AGR	461	461	53	54	0	56	0	6
BC	0	0	0	0	59	222	13	45
C&I	0	0	0	0	0	24	0	3
CCMD	0	0	0	0	0	8	0	1
CCRA	0	0	0	0	0	96	0	8
CFI	30	30	8	8	0	0	0	0
CFIA	45	137	6	13	0	0	0	0
CHRC	0	0	0	0	0	0	0	0
CIDA	18	118	1	10	5	85	1	7
CIHR	169	173	32	32	0	0	0	0
CMC	0	0	0	0	52	421	5	64
CMHC	15	17	2	4	17	38	3	9
CMN	23	164	2	28	0	0	0	0
CNSC	3	8	0	1	0	0	0	0
COL	0	0	0	0	0	9	0	1
CSA	31	54	11	18	0	0	0	0
CSTM	0	0	0	0	0	261	0	29
ENV	143	493	25	82	0	14	0	2
F&O	69	156	9	21	1	38	0	4
FA&IT	0	0	0	0	0	57	0	11
FIN	0	0	0	0	0	270	0	28
GC	20	20	1	1	2	2	0	0
HC	437	1,939	43	210	78	188	7	13
HRDC	0	0	0	0	10	476	1	38
IAND	0	6	0	1	0	0	0	0
IDRC	36	40	9	10	81	102	21	28
IND	407	747	46	87	15	203	2	20
JUS	0	0	0	0	0	58	0	10
NA	0	0	0	0	0	601	0	55
NDEF	378	507	44	44	5	5	0	0
NGC	0	0	0	0	44	254	9	45
NL	0	0	0	0	0	465	0	53
NRC	1,612	2,505	351	384	0	0	0	0
NRCan	930	1,877	149	284	0	0	0	0
NSERC	233	264	30	34	0	0	0	0
PC	0	0	0	0	0	28	0	3
PCA	0	66	0	4	0	121	0	28
PSC	0	0	0	0	0	71	0	6
PW&GS	37	61	4	6	0	0	0	0
RCMP	5	7	1	1	0	0	0	0
SGEN	0	0	0	0	28	35	2	3
SSHRC	0	0	0	0	77	148	10	18
STC	0	0	0	0	194	5,761	16	662
TB	0	0	0	0	0	464	0	57
TC	31	35	4	4	0	8	0	1
TOTAL	5,149	9,901	836	1,345	668	10,589	90	1,258

* Excluding National Capital Region.

TABLE 25. Federal expenditures on extramural S&T, by census metropolitan areas, activity and science, 2001-2002

Census Metropolitan Area	S&T Total	R&D Total	NSE - S&T	NSE - R&D	SSH - S&T	SSH - R&D
millions of dollars						
Calgary	183	174	171	166	12	8
Chicoutimi	4	4	3	3	1	1
Edmonton	121	112	99	96	22	16
Halifax	61	42	51	35	10	7
Hamilton	69	53	56	45	13	8
Kitchener	84	81	74	74	10	7
London	64	59	51	51	13	8
Montréal	654	503	464	460	190	43
Ottawa-Hull	328	279	272	252	56	27
Québec	82	74	58	56	24	18
Regina	12	10	9	8	3	2
Saskatoon	60	46	53	42	7	4
Sherbrooke	28	26	22	22	6	4
St-Catharines	10	10	8	8	2	2
St-John's	32	27	25	22	7	5
Sudbury	6	5	4	4	2	1
Toronto	435	400	371	357	64	43
Trois-Rivières	58	57	55	55	3	2
Vancouver	264	249	230	226	34	23
Victoria	29	25	20	18	9	7
Windsor	15	14	11	11	4	3
Winnipeg	57	53	47	46	10	7
Non-Census Metropolitan Areas	256	223	192	176	64	47
TOTAL	2,912	2,526	2,346	2,233	566	293

How to order publications

Statistics Canada catalogued publications may be purchased from local authorized agents, other community bookstores, and Statistics Canada Regional Reference Centre or from:

Statistics Canada
Dissemination Division
Circulation Management,
120 Parkdale Avenue,
Ottawa, Ontario
K1A 0T6

Telephone: 1(613) 951-7277
National (toll free order line): 1-800-700-1033
Fax number: 1(613) 951-1584 or 1-800-889-9734
Toronto: Credit Card only (416) 973-8018
Internet: order@statcan.ca
[Http://www.statcan.ca/english/IPS/Data/88-001-XIB.htm](http://www.statcan.ca/english/IPS/Data/88-001-XIB.htm)

Catalogued publications

Statistical publication

- 88-202-XIE Industrial Research and Development, 2003 Intentions (with 2002 preliminary estimates and 2001 actual expenditures)
- 88-204-XIE Federal Scientific Activities, 2002-2003 (annual)
- 88-001-XIE Science Statistics (monthly)

Volume 27

- No. 1 Biotechnology Scientific Activities in Selected Federal Government Departments and Agencies, 2001-2002
- No. 2 Scientific and Technological (S&T) Activities of Provincial Governments, 1993-94 to 2001-2002^e
- No. 3 Distribution of Federal Expenditures on Science and Technology, by Province and Territories, 2000-2001
- No. 4 Biotechnology Research and Development (R&D) in Canadian Industry, 2000
- No. 5 Industrial Research and Development, 1999 to 2003
- No. 6 Estimates of total spending on research and development in the health field in Canada, 1988 to 2002^p
- No. 7 Research and development (R&D) personnel in Canada, 1991 to 2000
- No. 8 Federal government expenditures on scientific activities, 2003-2004^p

Volume 28

- No. 1 Estimation of research and development expenditures in the higher education sector, 2001-2002
- No. 2 Total spending on research and development in Canada, 1990 to 2003^p, and provinces, 1990 to 2001
- No. 3 Distribution of federal expenditures on science and technology by province and territories, 2001-2002

Working papers – 2003

- ST-03-01E A Comparison of International R&D Performance: An Analysis of Countries that have Significantly Increase their GERD/GDP Ratio during the Period 1989-1999, February 2003
- ST-03-02E Who's Sharing What With Whom? How Canadian Businesses Used Electronic Networks to Share Information in 2001, February 2003.
- ST-03-03E How is the Canadian Biotechnology Evolving: A Comparison of the 1997 and 1999 Biotechnology Use and Development Surveys, March 2003
- ST-03-04E Scientific and Technological Activities of Provincial Governments, 1993-94 to 2001-2002^e, March 2003
- ST-03-05E Features of Canadian biotech innovative firms: results from the biotechnology use and development survey - 2001, March 2003
- ST-03-06E Innovation is a social process, March 2003
- ST-03-07E Knowledge management in practice in Canada, 2001, March 2003
- ST-03-08E Provincial distribution of federal expenditures and personnel on science and technology, 1994-1995 to 2000-2001, April 2003
- ST-03-09E Federal government expenditures and personnel in the natural and social sciences, 1993-1994 to 2002-2003, May 2003
- ST-03-10E Estimates of total expenditures on research and development in the health field in Canada, 1988 to 2002^p, October 2003
- ST-03-11E Estimates of research and development personnel in Canada, 1979 to 2000, November 2003
- ST-03-12E Survey of intellectual property commercialization in the higher education sector, 2001, October 2003
- ST-03-13E Bioproducts development by Canadian biotechnology firms: Findings from the 2001 biotechnology use and development survey, 2001, December 2003

Working papers – 2004

- ST-04-01E Starting the new century: technological change in the Canadian private sector, 2000-2002, January 2004
- ST-04-02E Estimation of research and development expenditures in the higher education sector, 2001-2002, January, 2004
- ST-04-03E Estimates of Canadian research and development expenditures (GERD), Canada, 1992 to 2003^p, and by province 1992 to 2001, January 2004
- ST-04-04E The many guises of innovation: what we have learnt and where we are heading, 2003, January 2004

Research papers

- No. 1 The State of Science and Technology Indicators in the OECD Countries, by Benoit Godin, August 1996
- No. 2 Knowledge as a Capacity for Action, by Nico Stehr, June 1996
- No. 3 Linking Outcomes for Workers to Changes in Workplace Practices: An Experimental Canadian Workplace and Employee Survey, by Garnett Picot and Ted Wannell, June 1996
- No. 4 Are the Costs and Benefits of Health Research Measurable? by M.B. Wilk, February 1997
- No. 5 Technology and Economic Growth: A Survey, by Peter Hanel and Jorge Niosi, April 1998

- No. 6 Diffusion of Biotechnologies in Canada, by Anthony Arundel, February 1999
- No. 7 Barriers to Innovation in Services Industries in Canada, by Pierre Mohnen and Julio Rosa, November 1999
- No. 8 Explaining Rapid Growth in Canadian Biotechnology Firms, by Jorge Niosi, August 2000
- No. 9 Internationally Comparable Indicators on Biotechnology: A Stocktaking, a Proposal for Work and Supporting Material, by W.Pattinson, B. Van Beuzekom and A. Wyckoff, January 2001
- No. 10 Analysis of the Survey on Innovation, Advanced Technologies and Practices in the Construction and Related Industries, 1999, by George Seaden, Michael Guolla, Jérôme Doutriaux and John Nash, January 2001
- No. 11 Capacity to Innovate, Innovation and Impact: The Canadian Engineering Services Industry, by Daood Hamdani, March 2001
- No. 12 Patterns of Advanced Manufacturing Technology (AMT) Use in Canadian Manufacturing:1998 AMT Survey Results, by Anthony Arundel and Viki Sonntag, November 2001