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Distribution of federal expenditures on science and technology by province and territories, 2003/2004

This service bulletin presents the geographic distribution of federal government science and technology expenditures. Data on federal government expenditures on science and technology are found in Volume 29, No. 7 of this publication series, released in December 2005. Science and technology (S&T) expenditures are the sum of expenditures on research and development (R&D) and on related scientific activities (RSA).

Highlights

- ▶ Of the total \$8.8 billion spent on S&T in 2003/2004 by the federal government, by region the federal departments have distributed \$8.0 billion. The remaining expenditures were either not identified by region or were paid to foreign performers.
- ▶ In 2003/2004, of the \$8.0 billion, one-third was spent in the National Capital Region (\$2.6 billion) down from 37% in 1997/1998. In 2003/2004 one-quarter of federal science and technology expenditures occurred in Ontario (\$2.0 billion) while 17% was spent in Quebec (\$1.3 billion). The Ontario and Quebec figures exclude funding for S&T performed by the federal government in its own departments and agencies within the National Capital Region (NCR).
- ▶ While the proportion of the federal government science and technology spending in the provinces and territories (excluding the NCR) has increased from 63% in 1997/1998 to 67% in 2003/2004, not all provinces saw increases in their share of this spending.
- ▶ When compared to 2002/2003 data, 2003/2004 regional distribution registered strong increases in Prince Edward Island (\$8 million), Yukon, Northwest Territories and Nunavut (\$11 million), Ontario (\$457 million) and Alberta (\$75 million). Spending in the other provinces showed minor increases or slight decreases from the previous year.
- ▶ There are two federal S&T programs reported in 2003/2004 which are responsible for the large increase in Ontario. They are the Canadian Foundation for Climate and Atmospheric Sciences and Sustainable Development Technology Fund.

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- ▶ In 2003/2004, the federal government awarded \$716 million in R&D grants and contracts in the natural sciences to Canadian business enterprise (Table 9). About 44% of the total was allocated to business enterprises in Ontario, and 31% to those in Quebec.
- ▶ Federal government R&D grants and contracts to the higher education sector increased by 23.6% in 2003/2004. The three granting councils that are responsible for the majority of this increase are the Social Sciences & Humanities Research Council (SSHRC), the Natural Sciences & Engineering Research Council (NSERC) and the Canadian Institutes of Health Research (CIHR).

As shown in Table 1, \$5.3 billion, or 67%, of the total federal government's expenditures on S&T 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 \$2,642 million;
- All payments made abroad for S&T, which amounted to \$288 million;
- Various other payments of federal expenditures which could not be assigned geographically, amounting to \$501 million.

The reason for treating the intramural S&T expenditures in the NCR as a separate category is the following: whether or not these expenditures accrue to one side of the Ottawa River or the other depends on the location of the particular federal agency performing the S&T and could change merely as a result of the way in which office space is allocated within the NCR.

S&T expenditures can be divided into R&D and RSA expenditures. In this bulletin, there are two other characteristics that 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" (NSE) and "social sciences and humanities" (SSH) respectively. Definitions of these and other terms are given in the annual publication, "Federal Scientific Activities" (Catalogue number 88-204-XIE).

Tables

Table 1 is a historical presentation of identified federal S&T spending in the provinces and territories. Tables 2 and 3 provide details of the identified federal R&D spending for the year 2003/2004.

Table 3 provides a distribution of the intramural R&D spending of selected government departments. Tables 4 and 5 deal with spending on S&T in the natural sciences.

Tables 6 and 9 demonstrate the allocation of extramural grants and contracts. Table 6 presents the value of grants and contracts to the higher education sector for R&D, while Table 9 provides the same information for the business enterprise sector, but for R&D in the natural sciences only.

Tables 7 and 8 provide details of the identified federal S&T and R&D spending for the year 2003/2004. The difference in the values in the two tables provides the same level of detail for RSA.

Finally, Tables 10 and 11 provide detail for the NCR. Table 10 gives the intramural expenditures which have been excluded from the provincial and territorial distribution. Table 11 provides sectoral detail for the year 2003/2004.

Province and territories	Year						
	1997/98	1998/99	1999/00	2000/01	2001/02 ^f	2002/03 ^f	2003/04
	millions of dollars						
Newfoundland and Labrador	71	86	87	101	95	117	121
Prince Edward Island	14	17	20	29	26	24	32
Nova Scotia	175	200	197	220	225	247	257
New Brunswick	65	75	72	68	82	102	100
Quebec	787	788	833	1,017	1,381	1,243	1,329
Ontario	1,141	1,143	1,309	1,347	1,653	1,582	2,039
Manitoba	149	136	161	190	211	214	195
Saskatchewan	120	122	131	148	165	151	159
Alberta	247	254	301	327	476	395	470
British Columbia	373	446	528	479	525	582	588
Yukon, Northwest Territories and Nunavut	16	15	20	28	34	35	46
Canada (Excluding NCR*)	3,158	3,282	3,659	3,954	4,873	4,692	5,336
National Capital Region*	1,819	1,942	1,981	2,130	2,603	2,608	2,642
Canada (Including NCR)	4,977	5,224	5,640	6,084	7,476	7,300	7,978

* Federal intramural expenditures only.

Province and territories	Federal government	Business enterprises	Higher education	Other ¹ Canadian performers	Total
	millions of dollars				
Newfoundland and Labrador	23	23	31	4	81
Prince Edward Island	12	5	7	1	25
Nova Scotia	66	18	58	9	151
New Brunswick	30	11	23	8	72
Quebec	314	222	513	43	1,092
Ontario	350	318	716	248 ²	1,632
Manitoba	63	8	44	5	120
Saskatchewan	54	9	51	4	118
Alberta	87	37	220	20	364
British Columbia	80	65	261	20	426
Yukon, Northwest Territories and Nunavut	5	1	0	0	6
Canada (Excluding NCR*)	1,084	717	1,924	362	4,087
National Capital Region*	999	...	...	...	999
Canada (Including NCR)	2,083	717	1,924	362	5,086

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

2. Includes \$50 million for the Canadian Foundation for Climate and Atmospheric Sciences funded by Environment Canada and \$125 million for the Sustainable Development Technology Fund funded by Natural Resources Canada.

* Federal intramural expenditures only.

Table 3 Federal intramural expenditures on R&D, by province and territories and selected departments, 2003/04

Province and territories	AECL	AGR	CSA	ENV	F&O	NDEF	NRC	NRCan	Other	Total
millions of dollars										
Newfoundland and Labrador	0	1	0	1	9	0	11	1	0	23
Prince Edward Island	0	10	0	0	1	0	0	0	1	12
Nova Scotia	0	8	0	4	14	22	14	3	1	66
New Brunswick	0	7	0	2	3	0	10	7	1	30
Quebec	0	40	94	23	8	42	69	24	14	314
Ontario	157	39	0	99	3	16	12	20	4	350
Manitoba	5	21	0	4	3	0	11	0	19	63
Saskatchewan	0	29	0	7	0	0	14	1	3	54
Alberta	0	33	0	3	0	21	3	25	2	87
British Columbia	0	14	0	11	17	0	22	14	2	80
Yukon, Northwest Territories and Canada (Excluding NCR)	0	0	0	0	4	0	0	1	0	5
	162	202	94	154	62	101	166	96	47	1,084
National Capital Region										
Ontario	6	35	1	1	6	66	398	135	302	950
Quebec	0	1	0	32	0	0	0	0	16	49
Total National Capital Region	6	36	1	33	6	66	398	135	318	999

Table 4 Federal expenditures on science and technology in the natural sciences, by province and territories, 1997/98 to 2003/04

Province and territories	Year						
	1997/98	1998/99	1999/00	2000/01	2001/02 ^f	2002/03 ^f	2003/04
millions of dollars							
Newfoundland and Labrador	65	79	81	94	86	111	111
Prince Edward Island	14	17	19	27	23	22	30
Nova Scotia	150	172	172	185	194	227	225
New Brunswick	61	71	68	64	64	96	89
Quebec	733	734	772	944	1,116	1,168	1,181
Ontario	1,037	1,035	1,199	1,210	1,428	1,441	1,797
Manitoba	137	122	147	172	191	201	174
Saskatchewan	115	116	125	140	151	144	146
Alberta	231	238	284	301	430	372	419
British Columbia	340	419	495	439	463	548	521
Yukon, Northwest Territories and Nunavut	11	9	15	21	29	31	42
Canada (Excluding NCR*)	2,895	3,012	3,377	3,597	4,175	4,361	4,735
National Capital Region*	979	1,046	1,058	1,089	1,345	1,382	1,457
Canada (Including NCR)	3,874	4,058	4,435	4,686	5,520	5,743	6,192

* Federal intramural expenditures only.

Table 5 Federal extramural expenditures on science and technology in the natural sciences, by province and territories, 1997/98 to 2003/04

Province and territories	Year						
	1997/98	1998/99	1999/00	2000/01	2001/02 ^f	2002/03 ^f	2003/04
	millions of dollars						
Newfoundland and Labrador	21	26	28	35	27	46	53
Prince Edward Island	3	6	5	8	5	9	12
Nova Scotia	37	43	49	45	59	79	84
New Brunswick	17	23	21	23	19	30	38
Quebec	427	406	419	484	623	663	725
Ontario	608	651	731	718	963	946	1,317
Manitoba	37	38	44	53	52	62	54
Saskatchewan	26	36	46	57	65	62	59
Alberta	101	116	147	151	280	206	255
British Columbia	178	253	295	237	259	329	315
Yukon, Northwest Territories and Nunavut	1	1	2	3	2	3	3
Canada	1,457	1,599	1,787	1,814	2,354	2,435	2,915

Table 6 Federal government grants and contracts to the higher education sector for R&D, by province and territories, 1997/98 to 2003/04

Province and territories	Year						
	1997/98	1998/99	1999/00	2000/01	2001/02 ^f	2002/03 ^f	2003/04
	millions of dollars						
Newfoundland and Labrador	9	10	15	18	19	20	31
Prince Edward Island	1	1	2	2	2	3	7
Nova Scotia	20	23	36	31	43	42	58
New Brunswick	7	11	10	11	23	16	23
Quebec	185	209	252	291	421	399	513
Ontario	246	292	360	456	561	591	716
Manitoba	20	23	28	34	40	46	44
Saskatchewan	14	22	27	41	55	50	51
Alberta	73	85	104	114	164	161	220
British Columbia	120	131	149	152	202	228	261
Yukon, Northwest Territories and Nunavut	0	0	0	0	0	0	0
Canada	695	807	983	1,150	1,530	1,556	1,924

Table 7 Federal expenditures on science and technology, by science, by province and territories and sector of performance, 2003/04

Province and territories	Federal government	Business enterprises	Higher education	Other ¹ Canadian performers	Total
millions of dollars					
Total sciences:					
Newfoundland and Labrador	61	23	33	4	121
Prince Edward Island	19	5	7	1	32
Nova Scotia	158	23	63	13	257
New Brunswick	54	11	26	9	100
Quebec	480	257	544	48	1,329
Ontario	516	352	772	399	2,039
Manitoba	128	11	48	8	195
Saskatchewan	89	10	54	6	159
Alberta	173	37	235	25	470
British Columbia	216	70	278	24	588
Yukon, Northwest Territories and Nunavut	43	2	0	1	46
Canada (Excluding NCR*)	1,937	801	2,060	538	5,336
National Capital Region*	2,642	...	...	...	2,642
Canada (Including NCR)	4,579	801	2,060	538	7,978
Natural sciences:					
Newfoundland and Labrador	58	23	26	4	111
Prince Edward Island	18	5	6	1	30
Nova Scotia	141	23	49	12	225
New Brunswick	51	11	18	9	89
Quebec	456	256	426	43	1,181
Ontario	480	348	609	360 ²	1,797
Manitoba	120	11	37	6	174
Saskatchewan	87	9	44	6	146
Alberta	164	37	194	24	419
British Columbia	206	69	225	21	521
Yukon, Northwest Territories and Nunavut	39	2	0	1	42
Canada (Excluding NCR*)	1,820	794	1,635	486	4,735
National Capital Region*	1,457	...	...	...	1,457
Canada (Including NCR)	3,277	794	1,635	486	6,192
Social sciences:					
Newfoundland and Labrador	3	0	7	0	10
Prince Edward Island	1	0	1	0	2
Nova Scotia	17	0	14	1	32
New Brunswick	3	0	8	0	11
Quebec	24	1	118	5	148
Ontario	36	4	163	39	242
Manitoba	8	0	11	2	21
Saskatchewan	2	1	10	0	13
Alberta	9	0	41	1	51
British Columbia	10	1	53	3	67
Yukon, Northwest Territories and Nunavut	4	0	0	0	4
Canada (Excluding NCR*)	117	7	426	52	601
National Capital Region*	1,185	...	...	...	1,185
Canada (Including NCR)	1,302	7	426	52	1,786

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

2. Includes \$50 million for the Canadian Foundation for Climate and Atmospheric Sciences funded by Environment Canada and \$250 million for the Sustainable Development Technology Fund (Environment Canada and Natural Resources Canada each provided \$125 million).

* Federal intramural expenditures only.

Table 8 Federal expenditures on R&D, by science, by province and territories and sector of performance, 2003/04

Province and territories	Federal government	Canadian business enterprises	Higher education	Other ¹ Canadian performers	Total
millions of dollars					
Total sciences					
Newfoundland and Labrador	23	23	31	4	81
Prince Edward Island	12	5	7	1	25
Nova Scotia	66	18	58	9	151
New Brunswick	30	11	23	8	72
Quebec	314	222	513	43	1,092
Ontario	350	318	716	248	1,632
Manitoba	63	8	44	5	120
Saskatchewan	54	9	51	4	118
Alberta	87	37	220	20	364
British Columbia	80	65	261	20	426
Yukon, N.W.T., and Nunavut	5	1	0	0	6
Canada (Excluding NCR)	1,084	717	1,924	362	4,087
National Capital Region*	999	...	...	...	999
Canada (Including NCR)	2,083	717	1,924	362	5,086
Natural sciences					
Newfoundland and Labrador	23	23	25	4	75
Prince Edward Island	12	5	6	1	24
Nova Scotia	66	18	45	8	137
New Brunswick	30	11	17	8	66
Quebec	314	222	405	40	981
Ontario	348	317	573	227	1,465
Manitoba	63	8	34	5	110
Saskatchewan	54	9	42	4	109
Alberta	87	37	183	19	326
British Columbia	80	65	213	18	376
Yukon, N.W.T., and Nunavut	5	1	0	0	6
Canada (Excluding NCR)	1,082	716	1,543	334	3,675
National Capital Region*	881	...	...	...	881
Canada (Including NCR)	1,963	716	1,543	334	4,556
Social sciences					
Newfoundland and Labrador	0	0	6	0	6
Prince Edward Island	0	0	1	0	1
Nova Scotia	0	0	13	1	14
New Brunswick	0	0	6	0	6
Quebec	0	0	108	3	111
Ontario	2	1	143	21	167
Manitoba	0	0	10	0	10
Saskatchewan	0	0	9	0	9
Alberta	0	0	37	1	38
British Columbia	0	0	48	2	50
Yukon, N.W.T., and Nunavut	0	0	0	0	0
Canada (Excluding NCR)	2	1	381	28	412
National Capital Region*	118	...	...	...	118
Canada (Including NCR)	120	1	381	28	530

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

* Federal intramural expenditures only.

Table 9 Federal government grants and contracts to business enterprise for R&D in the natural sciences, by province and territories, 2003/04

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	6.7	2.9	8.0	6.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	24.6
CED(QUE)	0.0	0.0	0.0	0.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	18.7
IND:												
TPC	11.8	0.0	0.0	0.0	120.7	117.1	0.5	0.0	8.6	29.7	0.0	288.4
Other	0.0	0.0	0.0	0.0	0.0	33.7	0.0	0.0	0.0	0.0	0.0	33.7
Total	11.8	0.0	0.0	0.0	120.7	150.8	0.5	0.0	8.6	29.7	0.0	322.1
NRC:												
IRAP	3.8	1.9	4.4	3.7	19.0	21.7	1.8	2.2	8.9	14.4	0.5	82.3
Total	3.8	1.9	4.4	3.7	19.0	21.7	1.8	2.2	8.9	14.4	0.5	82.3
WEDC	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	6.4	1.9	0.0	9.7
Other	0.0	0.6	0.2	0.1	16.1	44.6	0.5	0.4	5.5	15.5	0.0	83.5
Total	22.3	5.4	12.6	9.8	174.5	218.1	3.2	3.6	29.4	61.5	0.5	540.9
% of Grants	4.1	1.0	2.3	1.8	32.3	40.3	0.6	0.7	5.4	11.4	0.1	100.0
B. Contracts												
CSA	0.0	0.0	0.0	0.0	23.3	54.8	4.2	5.6	0.2	0.6	0.0	88.7
NDEF	0.0	0.0	6.0	0.3	22.8	32.1	0.0	0.0	5.2	1.8	0.0	68.2
NRCan	0.0	0.2	0.0	0.4	0.5	0.9	0.0	0.0	0.8	0.3	0.0	3.1
Other	0.1	0.0	0.0	0.2	0.8	11.5	0.6	0.1	1.1	0.7	0.0	15.1
Total	0.1	0.2	6.0	0.9	47.4	99.3	4.8	5.7	7.3	3.4	0.0	175.1
% of Contracts	0.1	0.1	3.4	0.5	27.1	56.7	2.7	3.3	4.2	1.9	0.0	100.0
Total, Grants and Contracts	22.4	5.6	18.6	10.7	221.9	317.4	8.1	9.3	36.6	64.9	0.5	716.0
% of Total	3.1	0.8	2.6	1.5	31.0	44.3	1.1	1.3	5.1	9.1	0.1	100.0

Table 10 Federal intramural expenditures on science and technology in the National capital region, 1997/98 to 2003/04

Activity and science	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04
millions of dollars							
TOTAL NCR							
R&D							
SSH	68	76	85	84	90	115	118
NSE	689	735	736	805	836	900	881
Total	757	811	821	889	926	1,015	999
RSA							
SSH	772	821	838	957	1,168	1,111	1,067
NSE	290	310	322	284	509	482	576
Total	1,062	1,131	1,160	1,241	1,677	1,593	1,643
TOTAL S&T							
SSH	840	897	923	1,041	1,258	1,226	1,185
NSE	979	1,045	1,058	1,089	1,345	1,382	1,457
Total	1,819	1,942	1,981	2,130	2,603	2,608	2,642
NCR (ONTARIO)							
R&D							
SSH	63	70	79	77	82	105	108
NSE	675	711	709	773	803	845	842
Total	738	781	788	850	885	950	950
RSA							
SSH	646	700	722	825	1,020	925	936
NSE	201	213	228	200	405	384	475
Total	847	913	950	1,025	1,425	1,309	1,411
TOTAL S&T							
SSH	709	770	801	902	1,102	1,030	1,044
NSE	876	924	937	973	1,208	1,229	1,317
Total	1,585	1,694	1,737	1,875	2,310	2,259	2,361
NCR (QUEBEC)							
R&D							
SSH	5	6	6	7	8	10	10
NSE	14	24	27	32	33	55	39
Total	19	30	33	39	41	65	49
RSA							
SSH	126	121	116	132	148	186	131
NSE	89	97	94	84	104	98	101
Total	215	218	210	216	252	284	232
TOTAL S&T							
SSH	131	127	122	139	156	196	141
NSE	103	121	121	116	137	153	140
Total	234	248	243	255	293	349	281

Table 11 Federal expenditures on science and technology in the National capital region, 2003/04					
Activity and science	Federal government	Business enterprises	Higher education	Other ¹ Canadian performers	Total
millions of dollars					
NCR (ONTARIO)					
R&D					
SSH	108	0	22	14	144
NSE	842	128	73	179	1,222
Total	950	128	95	193	1,366
RSA					
SSH	936	2	3	12	953
NSE	475	10	5	129	619
Total	1,411	12	8	141	1,572
TOTAL S&T					
SSH	1,044	2	25	26	1,097
NSE	1,317	138	78	308	1,841
Total	2,361	140	103	334	2,938
NCR (QUEBEC)					
R&D					
SSH	10	0	1	0	11
NSE	39	2	1	0	42
Total	49	2	2	0	53
RSA					
SSH	131	0	0	0	131
NSE	101	1	0	0	102
Total	232	1	0	0	233
TOTAL S&T					
SSH	141	0	1	0	142
NSE	140	3	1	0	144
Total	281	3	2	0	286

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

Note of appreciation

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- 0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- ^p preliminary
- ^r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published

This publication was prepared by **Gisèle Bellefeuille** under the direction of **Lloyd Lizotte**, Subject Matter Manager, Science, Innovation and Electronic Information Division.

NOTE

Due to rounding, components may not add to totals.

Departments, Agencies and Programs

ACOA	Atlantic Canada Opportunities Agency
AECL	Atomic Energy of Canada Limited
AGR	Agriculture and Agri-Food Canada
CED(QUE)	Canada Economic Development (Quebec Regions)
CSA	Canadian Space Agency
ENV	Environment Canada
F&O	Fisheries and Oceans
IRAP	Industrial Research Assistance Program
IND	Industry Canada
NDEF	National Defence
NRC	National Research Council
NRCan	Natural Resources Canada
NSE	Natural Sciences and Engineering
SSH	Social Sciences and Humanities
TPC	Technology Partnerships Canada
WEDC	Western Economic Diversification Canada

Current publications of the Science and Technology Surveys Section include:

Industrial Research and Development, 2005 Intentions, (with 2004 preliminary estimates and 2003 actual expenditures), Catalogue No. 88-202-XIE, annual. It presents statistics on research and development (R&D) activities performed and funded by Canadian business enterprises. The report covers current and capital expenditures on R&D, R&D as a percent of performing company revenues, R&D expenditures by province, the company's country of control, personnel engaged in R&D and payments for technological services.

<http://www.statcan.ca:8096/bsolc/english/bsolc?catno=88-202-X>

Federal Scientific Activities, 2004-2005, Catalogue No. 88-204-XIE, annual. It presents statistics on the federal government's activities in science and technology (S&T). It covers expenditures and person-years by type of science, performing sectors, provinces, Federal departments and agencies.

<http://www.statcan.ca:8096/bsolc/english/bsolc?catno=88-204-X>