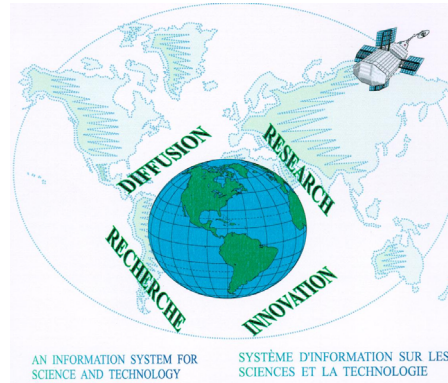




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Federal Government Expenditures and Personnel in the Natural and Social Sciences, 1992-1993 to 2001-2002^p



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AN INFORMATION SYSTEM FOR SCIENCE AND TECHNOLOGY

This document presents historical tables displaying Federal Government expenditures and personnel applied to activities in science and technology. Expenditures and personnel for each fiscal year to 1999-2000 are actual while the data for 2000-2001 and 2001-2002 are forecasts and estimates respectively.

As the data are designed primarily for use by those with some knowledge of the government's scientific activities, a minimum of explanatory material accompanies the statistics.

This report is organized into four main sections of statistical data. The first section presents combined data on the natural and social sciences, the second, data on the natural sciences alone, the third, data on the social sciences alone and the fourth, data on personnel. The note to readers contains definitions of the terms used to categorize science expenditures as well as some notes on the limitations of the data. **Readers are urged to read this latter section before drawing their own conclusions from the data.**

This working paper is a supplement to the service bulletins "Science Statistics", Vol. 25 No. 9, Catalogue 88-001-XIB and the annual publication "Federal Scientific Activities 2001-2002", Catalogue No. 88-204-XIE.

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The following symbols are used in this Statistics Canada report :

SYMBOLS

...	Figures not appropriate or not applicable
--	Amount too small to be expressed
E	Use with caution
r	Revised figures
P	Preliminary figures
R&D	Research and development
RSA	Related scientific activities
S&T	Science and technology activities

NOTE

Due to rounding, components may not add to totals.

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NOTES TO READERS

SCOPE AND LIMITATIONS OF THE DATA

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

- Expenditures by federal agencies which do not receive budgetary appropriations, e.g., Petrocan, Canadian National Railways, Air Canada.
- Non-budgetary expenditures for advances, loans, etc.

DEFINITIONS

Federal departments and agencies in receipt of budgetary appropriations are requested to identify those resources reported in Main Estimates which are to be used in scientific and technological (S&T) activities in both natural and social sciences.

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

NATURAL AND SOCIAL SCIENCES

The term, natural sciences, embraces those disciplines of study concerned with understanding, exploring, developing or utilizing the natural world. It covers the physical sciences, the life sciences, including the medical and agricultural sciences and engineering.

The term, social sciences, is to be regarded as synonymous with social sciences and humanities. Thus it embraces all disciplines involved in the study of human actions and conditions and the social, economic and institutional mechanisms affecting humans. Included are such disciplines as anthropology, demography, economics, geography, history, languages, literature and linguistics, law, library science, philosophy, political science, psychology, religious studies, social work, sociology, and urban and regional studies.

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

SCIENTIFIC AND TECHNOLOGICAL ACTIVITIES

There are two main categories of scientific and technological activities;

- Scientific research and experimental development (R&D) is defined as creative work undertaken on a systematic basis in order to increase the stock of knowledge, including the knowledge of humans, their culture and society, and the use of this stock of knowledge to devise new applications.
- Related scientific activities (RSA) are defined as those activities which complement and extend R&D by contributing to the generation, dissemination and application of scientific and technological knowledge. Enumerated below are the sub-groupings of related scientific activities divided by field of science.

Natural Sciences

Scientific data collection
Information services
Special services and studies
Education support

Social Sciences

General purpose data collection
Information services
Special services and studies
Education support

INTRAMURAL AND EXTRAMURAL PERFORMANCE

Intramural S&T is defined as those activities carried out primarily by the federal government. Considered to be intramural are those activities or services provided by outside agencies but directly controlled and managed by in-house personnel. Examples include computer services, provision of ship and plane services, construction of laboratory, test or prototype equipment. Intramural also includes those activities performed by one federal government department or agency on behalf of another on a cost recovery basis.

An activity is considered to be extramurally performed if the management as well as the performance is entrusted to a non-federal organization. The six extramural performing sectors are: Canadian business enterprises, Higher education, Canadian non-profit institutions, Canadian provincial and municipal governments, Foreign performers, and Other performers.

Intramural performance includes:

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

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

Extramural performers include:

Canadian business enterprises - business and government enterprises including public utilities and government-owned firms. Incorporated consultants who provide scientific and engineering services are also included. Industrial research institutes located at Canadian universities are considered to be in the university sector.

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

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

Canadian provincial and municipal governments - departments and agencies of provincial and municipal governments. However, provincial utilities are included in the Canadian Business Enterprises sector.

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

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

CONTRACTS, GRANTS AND CONTRIBUTIONS

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

A contract is a legal agreement between two or more parties which will usually specify the nature and general objective of the S&T activity to be performed and the provision of the service according to an agreed schedule and cost

A grant is an unconditional payment for which service is not necessarily expected (information, goods, etc.). It is to be noted, however, that prospective recipients may have to satisfy certain eligibility requirements.

A contribution is an agreement between the recipient which specifies the terms and conditions under which funds will be paid. The payments are conditional upon performance or achievement and the recipients use of the funds is subject to audit.

In this report the term "grants" encompasses both grants and contributions. Data subdivided by type of funding are collected only for R&D activities.

PERSONNEL

Federal Employees: "permanent", temporary and casual staff of all departments and agencies of the Federal Government, as well as the Atomic Energy Control Board, Atomic Energy of Canada Limited, Canada Mortgage and Housing Corporation, Canadian Broadcasting Corporation, the Canadian Human Rights Commission, the Canadian International Development Agency, the Commissioner of Official Languages, the International Development Research Centre, the International Joint Commission, the Law Reform Commission of Canada, the Medical Research Council of Canada, the National Capital Commission, the National Energy Board, the National Film Board, the National Library of Canada, the National Museums of Canada, the National Research Council Canada, the Natural Sciences and Engineering Research Council of Canada, the Privy Council Office, the National Archives of Canada, the Public Service Commission of Canada, the Royal Canadian Mounted Police, and the Social Sciences and Humanities Research Council of Canada.

Person-years: a measure of the time actually devoted to the conduct of scientific activities. An employee who is engaged in scientific activities for about four months (e.g. a summer term employee), or one who works about a third of the time on scientific activities, would have a person-year equivalence of 0.3.

Scientific and Professional: groups engaged in the application of a comprehensive body of knowledge acquired through university graduation or groups in which membership in Canada is generally controlled by legal licensing bodies.

Administrative and Foreign Service: groups engaged in the planning, execution, conduct and control of programs serving the public interest, relations between Canada and other countries and the requirements of internal management in the Public Service of Canada.

Technical: groups engaged in the conduct of analytical, experimental and investigative duties in all the sciences and the performance of similar technical duties in which the requisite knowledge and skills are normally acquired through completion of secondary school education and specialized training.

Administrative Support: groups such as clerical and regulatory; communications; data processing; office equipment operation; secretarial, stenographic, typing, and telephone operation.

Operational: groups engaged in the performance of a craft or of unskilled work. It refers to groups such as correctional, general services, postal operations, and printing operations.

From 1996-97 data on personnel resources have been compressed from seven to three principal categories. Scientific and Professional includes Executive; Technical; and Administrative Support includes Administrative and Foreign Service, Operational and Military.

Abbreviations Departments and Agencies

AGR	Agriculture and Agri-Food Canada
ACOA	Atlantic Canada Opportunities Agency
AECB	Atomic Energy Control Board
AECL	Atomic Energy of Canada Limited
BC	Bank of Canada
CCRA	Canada Customs and Revenue Agency
CBC	Canadian Broadcasting Corporation
CCA	Consumer and Corporate Affairs
CCMD	Canadian Centre for Management Development
CED(Qué)	Canada Economic Development (Québec Regions)
CFIA	Canadian Food Inspection Agency
CFI	Canadian Foundation for Innovation
CH	Canadian Heritage
CIHR	Canadian Institutes of Health Research
CHRC	Canadian Human Rights Commission
CIDA	Canadian International Development Agency
CITT	Canadian International Trade Tribunal
CMC	Canadian Museum of Civilization
CMN	Canadian Museum of Nature
CNSC	Canadian Nuclear Safety Commission
CMHC	Canada Mortgage and Housing Corporation
CSA	Canadian Space Agency
C&I	Citizenship and Immigration
COL	Commissioner of Official Languages
COMM	Communications
ECC	Economic Council of Canada
EPC	Emergency Preparedness Canada
E&I	Employment and Immigration
EMR	Energy, Mines and Resources
ENV	Environment
EA	External Affairs
FORD	Federal Office of Regional Development Québec
FIN	Finance
F&O	Fisheries and Oceans
FA&IT	Foreign Affairs and International Trade Canada
FOR	Forestry
GC	Genome Canada
GTA	Grain Transportation Agency
HC	Health Canada
HRDC	Human Resources Development Canada
IAND	Indian Affairs and Northern Development
IND	Industry Canada
ISTC	Industry Science and Technology Canada
IDRC	International Development Research Centre
IJC	International Joint Commission
IC	Investment Canada
JUS	Justice
LAB	Labour
M&C	Multiculturalism and Citizenship Canada
MRC	Medical Research Council
NA	National Archives
NCC	National Capital Commission

Departments and Agencies - Concluded

NDEF	National Defence
NEB	National Energy Board
NFB	National Film Board
NGC	National Gallery of Canada
NHW	National Health and Welfare
NL	National Library
NMST	National Museum of Science and Technology
NRCan	Natural Resources Canada
NRC	National Research Council
NSERC	Natural Sciences and Engineering Research Council
NTA	National Transportation Agency of Canada
PCA	Parks Canada Agency
PCO	Privy Council Office
PSC	Public Service Commission
PSSRB	Public Service Staff Relations Board
PW	Public Works
PW&GS	Public Works and Government Services Canada
NREV	Revenue Canada
RIE	Regional Industrial Expansion
RCMP	Royal Canadian Mounted Police
S&T	Science and Technology
SC	Science Council of Canada
SECS	Secretary of State
SSHRC	Social Sciences and Humanities Research Council
SGEN	Solicitor General
STCAN	Statistics Canada
SWC	Status of Women Canada
SS	Supply and Services
TPT	Transport
TSBC	Transportation Safety Board of Canada
TB	Treasury Board
URC's	University Research Councils
WEDO	Western Economic Diversification Office

TABLE 1.

Federal Government Expenditures on Science and Technology Activities (S&T), by Activity and by Science Type, 1992-1993 to 2001-2002^P

Year	Natural sciences			Social sciences			Natural and social sciences		
	R&D	RSA	Total	R&D	RSA	Total	R&D	RSA	Total
		%			%			%	in millions of dollars
1992-93 ^r	58	19	77	4	19	23	62	38	5,780
1993-94 ^r	58	20	77	4	19	23	62	39	5,951
1994-95 ^r	59	19	78	4	18	22	63	37	5,827
1995-96 ^r	57	20	77	4	19	23	61	39	5,693
1996-97 ^r	56	19	75	4	21	25	60	40	5 694
1997-98 ^r	58	19	77	4	20	24	62	39	5,509
1998-99 ^r	58	19	77	4	19	23	62	38	5,802
1999-2000 ^r	58	19	77	4	18	22	62	37	6,252
2000-2001 ^P	58	19	77	4	19	23	62	38	6,846
2001-2002 ^P	59	18	77	4	19	23	63	37	7,391

TABLE 2.

Federal Government Expenditures on S&T, by Science Type and by Performer¹, 1992-1993 to 2001-2002^P

Sector of performance	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
Total sciences :										
Intramural.....	3,349	3,457	3,399	3,427	3,575	3,351	3,455	3,658	3,942	4,108
Canadian business enterprises.....	952	954	930	885	801	927	952	926	1,104	1,159
Higher education	980	973	983	933	894	860	989	1,173	1,354	1,598
Canadian non-profit institutions	99	116	127	103	112	110	122	181	136	232
Provincial and municipal governments ...	23	43	44	47	33	12	14	18	17	15
Other Canadian performers	89	95	47	39	32	27	36	66	65	66
Foreign	288	313	297	259	247	222	233	229	228	214
TOTAL	5,780	5,951	5,827	5,693	5,694	5,509	5,802	6,252	6,846	7,391
Natural sciences :										
Intramural	2,464	2,570	2,519	2,486	2,507	2,417	2,459	2,648	2,774	2,841
Canadian business enterprises	913	915	885	846	767	892	924	896	1,070	1,126
Higher education	805	804	818	773	737	702	836	1,002	1,171	1,389
Canadian non-profit institutions	48	56	67	59	66	57	56	128	77	170
Provincial and municipal governments....	17	38	40	43	30	9	11	15	16	14
Other Canadian performers	55	54	31	26	26	19	31	42	37	37
Foreign	157	162	166	144	140	126	134	134	134	131
TOTAL	4,459	4,599	4,526	4,377	4,273	4,222	4,450	4,866	5,279	5,708
Social sciences:										
Intramural	884	887	880	941	1,068	934	996	1,010	1,168	1,267
Canadian business enterprises	39	39	45	40	34	35	29	30	33	33
Higher education	175	169	165	159	157	158	153	171	183	209
Canadian non-profit institutions	51	60	59	44	46	53	65	52	59	61
Provincial and municipal governments ...	6	5	4	4	3	3	3	1	1	1
Other Canadian performers	35	42	16	13	6	8	6	26	28	29
Foreign	131	150	132	115	107	96	99	95	94	83
TOTAL	1,321	1,352	1,301	1,316	1,421	1,287	1,352	1,386	1,567	1,683

As reported by the funder, the federal government, not by the performers.

TABLE 3.

Federal Government Expenditures on Research and Development (R&D), by Science Type and by Performer¹, 1992-1993 to 2001-2002^P

Sector of performance	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
Total sciences :										
Intramural.....	1,716	1,757	1,754	1,727	1,792	1,720	1,743	1,859	1,909	1,953
Canadian business enterprises.....	768	773	756	665	573	721	749	713	854	924
Higher education.....	820	814	835	797	761	725	842	1,010	1,200	1,426
Canadian non-profit institutions	50	66	74	59	75	71	82	130	88	186
Provincial and municipal governments ...	12	35	33	38	27	6	9	13	14	12
Other Canadian performers	53	55	29	27	23	16	29	46	43	45
Foreign	168	178	177	151	141	120	124	118	104	101
TOTAL	3,587	3,677	3,657	3,465	3,391	3,379	3,578	3,890	4,211	4,646
Natural sciences :										
Intramural	1,656	1,694	1,694	1,669	1,724	1,651	1,667	1,774	1,822	1,867
Canadian business enterprises	762	770	750	662	570	720	747	711	853	923
Higher education	733	729	749	713	680	644	762	913	1,091	1,298
Canadian non-profit institutions	25	33	43	34	52	47	43	109	58	151
Provincial and municipal governments....	10	32	30	37	25	4	8	13	13	11
Other Canadian performers	48	49	25	23	21	15	27	37	32	32
Foreign	119	127	131	114	110	94	97	95	81	80
TOTAL	3,353	3,434	3,422	3,252	3,181	3,174	3,350	3,653	3,951	4,363
Social sciences:										
Intramural	61	63	60	58	68	69	76	85	86	86
Canadian business enterprises	5	2	5	3	3	2	3	2	1	1
Higher education	86	85	86	85	81	80	80	97	109	128
Canadian non-profit institutions	26	33	30	24	24	24	39	21	29	35
Provincial and municipal governments ...	2	3	3	1	2	2	1	1	--	--
Other Canadian performers	5	6	4	4	2	1	2	9	11	13
Foreign	48	52	46	38	31	27	27	23	23	21
TOTAL	233	244	235	213	210	205	228	237	260	283

As reported by the funder, the federal government, not by the performers.

TABLE 4.

Federal Government Current Expenditures on R&D, by Science Type and by Performer, 1992-1993 to 2001-2002^P

Year	Federal government	Canadian business enterprise	Higher education	Canadian non-profit institutions	Other Canadian	Foreign	Total
in millions of dollars							
Total Sciences :							
1992-93 ^f	1,515	768	819	50	65	167	3,386
1993-94 ^f	1,562	773	814	66	90	178	3,482
1994-95 ^f	1,548	756	835	74	62	177	3,452
1995-96 ^f	1,565	665	797	59	65	151	3,302
1996-97 ^f	1,651	573	761	75	49	141	3,250
1997-98 ^f	1,567	721	725	71	22	120	3,225
1998-99 ^f	1,606	749	842	82	38	124	3,441
1999-2000 ^f	1,715	713	1,010	130	59	118	3,745
2000-2001 ^P	1,768	854	1,200	88	57	104	4,071
2001-2002 ^P	1,786	924	1,426	186	57	101	4,479
Natural Sciences :							
1992-93 ^f	1,455	762	733	25	58	119	3,152
1993-94 ^f	1,499	770	729	33	81	127	3,240
1994-95 ^f	1,489	750	749	43	55	131	3,217
1995-96 ^f	1,507	662	713	34	60	114	3,090
1996-97 ^f	1,583	570	680	52	46	110	3,041
1997-98 ^f	1,498	720	644	47	19	94	3,021
1998-99 ^f	1,531	747	762	43	35	97	3,214
1999-2000 ^f	1,630	711	913	109	50	95	3,509
2000-2001 ^P	1,682	853	1,091	58	46	81	3,811
2001-2002 ^P	1,701	923	1,298	151	44	80	4,196
Social Sciences :							
1992-93 ^f	60	5	86	26	7	48	233
1993-94 ^f	63	2	85	33	9	52	244
1994-95 ^f	59	5	86	30	7	46	235
1995-96 ^f	58	3	85	24	5	38	213
1996-97 ^f	67	3	81	24	3	31	209
1997-98 ^f	68	2	80	24	3	27	204
1998-99 ^f	75	3	80	39	3	27	227
1999-2000 ^f	85	2	97	21	9	23	237
2000-2001 ^P	86	1	109	29	11	23	260
2001-2002 ^P	85	1	128	35	13	21	283

TABLE 5.

Federal Government Expenditures on Related Scientific Activities (RSA), by Science Type and by Performer¹, 1992-1993 to 2001-2002^P

Sector of performance	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
Total sciences :										
Intramural	1,632	1,700	1,646	1,699	1,783	1,631	1,712	1,799	2,034	2,155
Canadian business enterprises	184	181	174	221	228	206	203	212	250	235
Higher education	160	159	147	135	133	135	147	164	154	172
Canadian non-profit institutions	49	51	53	45	37	40	40	51	49	46
Provincial and municipal governments	10	9	11	9	6	6	5	5	3	3
Other Canadian performers	36	40	17	12	11	11	9	20	22	21
Foreign	121	134	121	107	105	101	109	111	123	113
TOTAL	2,193	2,274	2,170	2,228	2,303	2,130	2,224	2,362	2,635	2,745
Natural sciences :										
Intramural	808	876	825	816	783	766	792	874	952	974
Canadian business enterprises	151	145	135	184	197	172	177	185	218	203
Higher education	71	75	69	60	58	58	74	89	80	91
Canadian non-profit institutions	23	23	24	25	14	11	14	19	19	20
Provincial and municipal governments	7	5	10	6	5	4	3	3	3	3
Other Canadian performers	7	5	6	4	5	4	4	4	4	5
Foreign	38	36	35	30	30	33	37	39	53	50
TOTAL	1,104	1,164	1,104	1,125	1,091	1,048	1,100	1,213	1,329	1,346
Social sciences:										
Intramural	824	824	820	883	1,000	866	920	925	1,082	1,181
Canadian business enterprises	33	37	40	37	31	33	26	28	32	31
Higher education	89	84	78	75	76	77	73	75	75	82
Canadian non-profit institutions	26	27	29	20	23	29	26	31	30	26
Provincial and municipal governments	4	3	1	3	1	2	2	2	1	0
Other Canadian performers	30	35	12	8	5	7	5	16	18	16
Foreign	83	98	86	77	75	69	72	72	70	62
TOTAL	1,089	1,109	1,066	1,103	1,211	1,082	1,124	1,149	1,307	1,399

As reported by the funder, the federal government, not by the performers.

TABLE 6.

Federal Government Expenditures on S&T, by Science Type, 1992-1993 to 2001-2002^P

Year	R&D Expenditure			RSA Expenditures			Total all activities
	Current	Capital	Total	Current	Capital	Total	
in millions of dollars							
Total Sciences :							
1992-93 ^f	3,386	201	3,587	2,058	134	2,193	5,780
1993-94 ^f	3,483	195	3,677	2,109	164	2,274	5,951
1994-95 ^f	3,452	205	3,657	1,999	171	2,170	5,827
1995-96 ^f	3,302	163	3,465	2,081	147	2,228	5,693
1996-97 ^f	3,250	141	3,391	2,164	139	2,303	5,694
1997-98 ^f	3,225	154	3,379	2,040	91	2,130	5,509
1998-99 ^f	3,441	137	3,578	2,135	89	2,224	5,802
1999-2000 ^f	3,745	144	3,890	2,286	76	2,362	6,252
2000-2001 ^P	4,071	140	4,211	2,557	78	2,635	6,846
2001-2002 ^P	4,479	167	4,646	2,676	69	2,745	7,391
Natural Sciences :							
1992-93 ^f	3,153	201	3,353	1,013	91	1,104	4,457
1993-94 ^f	3,240	194	3,434	1,043	121	1,164	4,599
1994-95 ^f	3,217	205	3,422	993	111	1,104	4,526
1995-96 ^f	3,090	162	3,252	1,054	71	1,125	4,377
1996-97 ^f	3,041	140	3,181	1,029	62	1,091	4,273
1997-98 ^f	3,021	153	3,174	1,000	48	1,048	4,222
1998-99 ^f	3,214	136	3,350	1,058	41	1,100	4,450
1999-2000 ^f	3,509	144	3,653	1,177	37	1,213	4,866
2000-2001 ^P	3,811	140	3,951	1,284	45	1,329	5,279
2001-2002 ^P	4,196	167	4,363	1,310	36	1,346	5,708
Social Sciences :							
1992-93 ^f	233	--	233	1,046	43	1,089	1,322
1993-94 ^f	243	--	243	1,066	43	1,109	1,352
1994-95 ^f	235	--	235	1,007	59	1,066	1,301
1995-96 ^f	213	--	213	1,027	76	1,103	1,316
1996-97 ^f	209	1	210	1,134	77	1,211	1,421
1997-98 ^f	204	1	205	1,039	43	1,082	1,287
1998-99 ^f	227	1	228	1,076	48	1,124	1,352
1999-2000 ^f	237	--	237	1,109	40	1,149	1,386
2000-2001 ^P	260	--	260	1,274	33	1,307	1,567
2001-2002 ^P	283	--	283	1,366	33	1,399	1,683

All Sciences

TABLE 7.

Federal Government Expenditures on S&T, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
R&D :										
Current expenditures	3,227	3,319	3,287	3,140	3,086	3,062	3,241	3,559	3,865	4,260
Administration of extramural programs	159	163	164	162	164	163	200	186	205	219
Capital expenditures	201	195	205	163	141	154	137	144	140	167
Sub-total R&D	3,587	3,677	3,657	3,465	3,391	3,379	3,578	3,890	4,211	4,646
RSA :										
Data collection	901	969	882	923	1,048	1,004	1,059	1,146	1,314	1,442
Information services	524	527	543	539	482	425	432	446	498	500
Special services and studies	418	406	369	447	463	436	452	485	527	494
Education support	181	176	170	139	139	142	157	168	174	197
Administration of extramural programs	34	32	36	34	33	32	35	40	45	43
Capital expenditures	134	164	171	147	139	91	89	77	78	69
Sub-total RSA	2,193	2,274	2,170	2,228	2,303	2,130	2,224	2,362	2,635	2,745
TOTAL	5,780	5,951	5,827	5,693	5,694	5,509	5,802	6,252	6,846	7,391

TABLE 8.

Federal Government Expenditures on S&T, by Department or Agency, 1992-1993 to 2001-2002^P

Department or Agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL	167	161	169	168	240	174	135	132	136	147
AGR	357	366	356	358	368	359	351	387	354	363
BC	35	39	36	35	39	41	45	41	41	51
CCA	34	...	...	...	...	...	...	...	...	...
CFI .....	...	...	...	...	...	2	31	118	187	306
CFIA .....	...	...	...	...	28	30	30	32	36	33
CH ² .....	...	8	84	82	82	78	1	1	1	1
CIDA	342	333	308	334	339	303	314	335	372	344
CIHR .....	...	...	...	...	...	...	...	317	411	476
CMC	46	46	56	53	56	55	54	55	61	60
COMM	52	...	...	...	...	...	...	...	...	...
CSA	371	387	320	299	253	230	343	305	343	355
EA	54	...	...	...	...	...	...	...	...	...
E&I	42	...	...	...	...	...	...	...	...	...
EMR	334	352	...	...	...	...	...	...	...	...
ENV	631	663	549	529	456	453	427	538	498	571
F&O	231	239	237	244	246	204	281	287	325	323
FA&IT .....	...	52	60	58	59	58	49	54	46	48
FOR	99	115	...	...	...	...	...	...	...	...
HC	174	191	180	201	214	210	204	236	275	260
HRDC .....	...	62	66	60	60	65	74	60	78	78
IDRC	107	115	102	88	88	78	85	82	80	76
IND ³ .....	...	374	388	324	291	407	343	301	412	486
ISTC	258	...	...	...	...	...	...	...	...	...
MRC	257	259	265	252	242	238	277	...	...	...
NA	40	43	62	65	46	36	35	35	41	46
NDEF	275	256	252	233	253	311	304	335	325	324
NL	53	58	49	49	43	42	40	42	48	49
NRC	513	503	505	481	479	524	554	597	649	658
NRCan ⁴ .....	...	...	464	475	430	396	386	421	401	408
NSERC	501	496	494	471	453	436	499	549	563	613
PCA ² .....	...	...	...	...	...	...	82	68	68	69
SSHRC	103	102	103	101	93	96	104	127	152	183
STCAN	351	347	353	406	535 ⁵	400	437	461	591	683 ⁵
TB	28	37	36	35	32	35	37	44	44	36
Other	325	347	333	292	269	248	280	291	308	344
TOTAL	5,780	5,951	5,827	5,693	5,694	5,509	5,802	6,252	6,846	7,391

See footnotes at end of section.

TABLE 9.

Federal Government Intramural Expenditures on S&T, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
R&D :										
Current expenditures	1,357	1,399	1,384	1,403	1,486	1,403	1,406	1,528	1,563	1,567
Administration of extramural programs	159	163	164	162	164	163	200	186	205	219
Capital expenditures	201	195	205	163	141	154	137	144	140	167
Sub-total R&D	1,716	1,757	1,754	1,727	1,792	1,720	1,743	1,859	1,909	1,953
RSA :										
Data collection	796	860	787	840	972	926	979	1,063	1,225	1,361
Information services	442	433	460	457	408	364	370	380	429	429
Special services and studies	216	202	184	213	221	207	223	231	247	244
Education support	10	9	8	9	11	11	15	9	10	9
Administration of extramural program	34	32	36	34	33	32	35	40	45	43
Capital expenditures	134	164	171	147	139	91	89	77	78	69
Sub-total RSA	1,632	1,700	1,646	1,699	1,783	1,631	1,712	1,799	2,034	2,155
TOTAL.....	3,349	3,457	3,399	3,427	3,575	3,351	3,455	3,658	3,942	4,108

TABLE 10.

Federal Government Intramural Expenditures on S&T, by Department or Agency, 1992-1993 to 2001-2002^P

Department or Agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL	146	142	146	148	219	154	114	123	127	131
AGR	338	348	335	343	362	354	348	366	334	343
BC	35	39	36	35	39	41	45	41	41	51
CCA	32	...	...	...	...	...	...	...	...	...
CFIA .....	...	...	...	...	28	30	30	32	36	33
CH ² .....	...	--	78	76	78	72	...	...	...	...
CIDA	10	10	12	13	15	14	15	17	17	17
CMC	46	46	56	53	56	55	54	55	61	60
CMN	20	22	25	29	33	25	23	23	26	25
COMM	39	...	...	...	...	...	...	...	...	...
CSA	88	86	61	72	64	55	86	55	77	82
EA	12	...	...	...	...	...	...	...	...	...
E&I	14	...	...	...	...	...	...	...	...	...
EMR	283	297	...	...	...	...	...	...	...	...
ENV	585	615	484	464	399	404	369	419	437	458
F&O	211	226	229	223	238	196	271	277	312	311
FA&IT .....	...	10	10	11	11	11	10	11	10	10
FIN	24	24	22	20	19	20	22	26	24	24
FOR	83	88	...	...	...	...	...	...	...	...
HC	127	144	137	149	163	170	174	209	247	242
HRDC .....	..	16	16	29	32	28	24	25	36	36
IDRC	32	31	30	28	39	41	45	48	47	45
IND ³ .....	...	131	149	137	103	99	108	100	104	107
ISTC	32	...	...	...	...	...	...	...	...	...
NA	37	41	60	63	44	34	33	33	39	43
NDEF	165	149	150	131	153	164	163	193	180	178
NGC	29	30	34	37	33	46	49	42	42	46
NL	53	58	49	48	43	42	40	42	48	49
NMST	18	18	24	24	25	24	23	24	26	25
NRC	397	389	377	357	350	394	403	456	504	526
NRCan ⁴ .....	...	...	382	402	370	347	334	343	327	333
PCA ² .....	...	...	...	...	...	...	80	65	65	66
STCAN	351	347	353	406	534 ⁵	400	437	461	591	682 ⁵
TB	28	36	35	35	32	34	37	44	44	36
TPT	11	11	10	5	6	7	8	6	7	8
Other	103	103	99	89	87	90	110	122	133	141
TOTAL	3,349	3,457	3,399	3,427	3,575	3,351	3,455	3,658	3,942	4,108

See footnotes at end of section.

TABLE 11.

Federal Government Payments to Canadian Business Enterprises for S&T, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
R&D	768	773	756	665	573	721	749	713	854	924
RSA :										
Data collection	46	46	44	47	45	46	47	43	48	48
Information services	8	7	12	14	15	11	11	13	15	14
Special services and studies	128	125	116	156	166	146	141	154	183	170
Education support	3	4	3	3	3	3	3	3	3	3
TOTAL	952	954	930	885	801	927	952	926	1,104	1,159

TABLE 12.

Federal Government Payments to Canadian Business Enterprises for S&T, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
ACOA	15	15	14	11	5	7	11	8	7	5
AECL	15	14	20	15	17	14	16	7	8	15
CED (Qué) ¹	19	23	20	15	9	9	5	5	4	2
CIDA	121	114	105	161	162	141	144	158	191	175
COMM	11	...	...	...	...	...	...	...	...	...
CSA	254	266	217	185	142	143	223	215	240	243
EMR	35	34	...	...	...	...	...	...	...	...
ENV	18	19	27	29	32	26	34	31	34	36
F&O	15	9	5	19	5	5	8	1	1	1
FOR	10	10	...	...	...	...	...	...	...	...
IND ³ .....	...	216	223	174	177	299	223	191	298	369
ISTC	209	...	...	...	...	...	...	...	...	...
NDEF	95	90	88	88	85	120	118	122	125	127
NRC	61	65	73	76	82	82	99	89	97	85
NRCan ⁴.....	...	...	41	31	30	27	34	53	51	51
TPT	15	14	18	13	9	9	9	8	9	9
WEDO.....	16	18	15	14	8	5	2	11	10	10
Other.....	43	47	64	54	38	40	26	27	29	31
TOTAL	952	954	930	885	801	927	952	926	1,104	1,159

See footnotes at end of section.

TABLE 13.

Federal Government Payments to the Higher Education Sector for S&T, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^r	1993-94 ^r	1994-95 ^r	1995-96 ^r	1996-97 ^r	1997-98 ^r	1998-99 ^r	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
R&D	820	814	835	797	761	725	842	1,010	1,200	1,426
RSA :										
Data collection	9	11	10	11	10	10	11	10	11	5
Information services	10	9	9	10	11	10	11	12	11	15
Special services and studies	4	3	4	4	4	3	2	5	5	4
Education support	138	135	125	110	109	113	123	136	127	147
TOTAL	980	973	983	933	894	860	989	1,173	1,354	1,598

TABLE 14.

Federal Government Payments to the Higher Education Sector for S&T, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AGR	3	3	5	4	1	1	1	1	1	1
CED (Qué) ¹	5	3	10	5	8	3	5	--	--	--
CFI.....	...	...	...	...	...	...	27	114	182	300
CIHR.....	...	...	...	...	...	...	...	289	373	433
CIDA.....	77	70	64	62	63	58	57	60	54	60
EA.....	18	...	...	...	...	...	...	...	...	...
EMR	7	6	...	...	...	...	...	...	...	...
ENV	5	9	16	15	8	10	10	10	10	10
FA&IT .....	...	16	16	14	14	18	14	16	13	14
HC	19	17	21	25	26	18	15	14	15	4
IND ³ .....	...	14	5	4	1	--	--	--	--	0
ISTC	4	...	...	...	...	...	...	...	...	...
MRC	238	241	246	233	221	217	250	...	...	...
NDEF.....	7	6	6	6	8	7	5	4	4	4
NRC.....	37	32	35	35	33	36	39	39	39	40
NRCan ⁴.....	...	...	7	5	3	2	2	4	4	4
NSERC	448	443	443	421	413	392	447	491	500	544
SSHRC	79	81	80	81	75	77	82	99	115	142
Other.....	33	32	29	23	20	21	35	32	44	42
TOTAL	980	973	983	933	894	860	989	1,173	1,354	1,598

See footnotes at end of section.

TABLE 15.

Federal Government Expenditures on R&D, by Department or Agency, 1992-1993 to 2001-2002^P

Department or Agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL	159	155	163	163	240	174	135	132	136	147
AGR	319	328	323	328	350	340	335	370	338	345
BC	4	9	8	8	10	11	11	13	12	14
CED (Qué) ¹	28	30	35	24	28	22	23	12	10	6
CFI .....	...	...	...	...	...	2	31	118	187	306
CFIA .....	...	...	...	...	12	13	11	10	15	13
CH ² .....	...	--	1	2	1	1	--	--	--	--
CIHR .....	...	...	...	...	...	...	...	304	403	458
CIDA	69	61	62	51	52	48	49	50	41	39
CMC	4	4	5	5	5	5	5	5	5	5
COMM	44	...	...	...	...	...	...	...	...	...
CSA	360	379	314	291	245	224	337	300	324	341
E&I	22	...	...	...	...	...	...	...	...	...
EMR	268	271	...	...	...	...	...	...	...	...
ENV	119	135	174	163	135	127	116	196	149	195
F&O	111	114	114	99	95	78	109	110	124	123
FOR	92	106	...	...	...	...	...	...	...	...
HC	49	53	58	63	74	65	54	55	65	55
HRDC .....	...	35	35	22	18	17	31	15	23	25
IDRC	95	103	89	78	76	64	67	71	70	66
IND ³ .....	...	317	322	268	230	345	274	239	346	420
ISTC	242	...	...	...	...	...	...	...	...	...
MRC	247	249	257	244	234	229	266	...	...	...
NDEF	270	251	248	229	223	264	263	294	283	283
NRC	458	441	449	419	429	470	499	530	582	599
NRCan ⁴ .....	...	...	374	403	372	350	345	376	357	362
NSERC	445	439	440	425	410	393	443	481	495	539
SSHRC	69	68	69	70	64	65	68	92	110	133
WEDO	22	24	13	14	12	7	13	24	43	43
Other	91	105	103	95	76	64	93	98	93	129
TOTAL	3,587	3,677	3,657	3,465	3,391	3,379	3,578	3,890	4,211	4,646

See footnotes at end of section.

TABLE 16.

Federal Government Current Expenditures on R&D, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL.....	148	151	155	156	240	173	133	131	134	144
AGR.....	281	310	304	307	315	307	302	344	315	321
CED (Qué) ¹	28	30	35	24	28	22	23	12	10	6
CFI.....	...	...	...	...	...	2	31	118	187	306
CIHR.....	...	...	...	...	...	...	...	304	403	457
CIDA.....	69	61	62	51	52	48	49	50	41	39
COMM.....	38	...	...	...	...	...	...	...	...	...
CSA.....	330	348	308	286	244	223	336	298	324	341
EMR.....	244	248	...	...	...	...	...	...	...	...
ENV.....	110	126	153	149	125	119	109	187	137	186
F&O.....	103	99	101	93	92	76	108	109	122	122
FOR.....	85	98	...	...	...	...	...	...	...	...
HC.....	48	51	56	62	73	64	52	54	58	52
HRDC.....	...	35	35	22	18	17	31	15	23	25
IDRC.....	95	103	89	78	76	64	67	71	70	66
IND ³.....	...	284	281	225	224	342	272	238	344	413
ISTC.....	242	...	...	...	...	...	...	...	...	...
MRC.....	247	249	256	244	234	229	265	...	...	...
NDEF.....	246	237	229	217	210	248	251	259	252	252
NRC.....	418	407	403	393	390	417	453	486	547	535
NRCan ⁴.....	...	...	348	377	343	318	315	353	335	341
NSERC.....	445	439	439	424	409	393	443	481	495	539
SSHRC.....	68	68	69	70	64	65	68	92	110	133
Other.....	140	138	128	123	113	98	133	143	164	201
TOTAL.....	3,386	3,482	3,452	3,302	3,250	3,225	3,441	3,745	4,071	4,479

See footnotes at end of section..

TABLE 17.

Federal Government Expenditures on Intramural R&D, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
In-house R&D	1,246	1,293	1,273	1,275	1,361	1,283	1,284	1,401	1,447	1,446
R&D Contracts	10	8	20	28	35	38	37	37	37	37
Supporting contracts	84	82	79	88	84	76	78	82	69	74
Research fellowships	16	16	12	12	6	7	7	9	10	10
Administration of extramural programs	159	163	164	162	164	164	200	186	205	219
Capital expenditures	201	195	205	163	141	154	137	144	140	167
TOTAL	1,716	1,757	1,754	1,727	1,792	1,720	1,743	1,859	1,909	1,953

TABLE 18.

Federal Government Expenditures on Intramural R&D, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
AECL	138	136	140	143	219	154	114	123	126	131
AGR	304	313	306	317	346	338	332	351	319	326
COMM	31	...	...	...	...	...	...	...	...	...
CSA	78	79	54	63	57	49	81	51	58	69
EMR	226	223	...	...	...	...	...	...	...	...
ENV	107	120	146	131	113	106	93	115	126	123
F&O	101	110	111	89	92	75	105	108	122	121
FOR	76	80	...	...	...	...	...	...	...	...
HC	23	34	29	33	41	40	39	43	52	43
IND ³ .....	...	77	85	82	43	38	39	39	38	41
ISTC	21	...	...	...	...	...	...	...	...	...
NDEF	159	145	146	127	136	140	142	173	160	157
NRC	343	326	321	294	300	340	349	389	437	465
NRCan ⁴ .....	...	...	305	342	320	309	303	307	291	296
Other	109	114	111	106	125	131	146	160	180	181
TOTAL	1,716	1,757	1,754	1,727	1,792	1,720	1,743	1,859	1,909	1,953

See footnotes at end of section.

TABLE 19.

Federal Government Payments to Canadian Business Enterprises for R&D, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
Contracts	406	409	367	341	267	295	381	362	380	377
Grants and contributions	360	361	382	321	299	422	363	340	462	534
Research fellowships	2	3	6	3	7	4	5	12	12	12
TOTAL.....	768	773	756	665	573	721	749	713	854	924

TABLE 20.

Federal Government Payments to Canadian Business Enterprises for R&D, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL	15	14	20	15	17	14	16	7	8	15
AGR.....	6	7	6	3	2	--	--	--	0	0
CED (Qué) ¹	19	23	19	15	9	8	4	5	4	2
COMM	11	...	...	...	...	...	...	...	...	...
CSA	254	266	217	185	142	143	223	214	239	243
EMR.....	26	27	...	...	...	...	...	...	...	...
ENV	5	4	9	13	10	8	10	8	10	10
FOR.....	10	10	...	...	...	...	...	...	...	...
IND ³.....	...	214	223	173	177	299	223	191	298	369
ISTC	206	...	...	...	...	...	...	...	...	...
NDEF	95	90	88	88	73	105	107	110	113	115
NRC.....	61	65	73	76	82	82	99	89	97	85
NRCan ⁴.....	...	...	35	27	23	20	27	47	45	45
NSERC	2	3	18	17	11	15	10	10	10	11
TPT.....	12	11	13	12	8	7	7	7	8	8
Other.....	46	39	35	41	19	20	23	25	22	21
TOTAL.....	768	773	756	665	573	721	749	713	854	924

See footnotes at end of section.

TABLE 21.

Federal Government Contracts to Canadian Business Enterprises for R&D, by Department or Agency, 1991-1992 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL.....	15	14	20	15	17	14	16	7	8	15
COMM.....	6	...	...	...	...	...	...	...	...	...
CSA.....	254	266	217	185	142	143	222	213	226	214
EMR.....	14	17	...	...	...	...	...	...	...	...
ENV.....	5	4	8	12	9	8	10	8	10	10
F&O.....	6	2	2	8	1	1	1	--	--	--
NDEF.....	84	81	88	88	73	105	107	110	113	115
NRC.....	1	--	--	--	--	0	0	--	--	--
NRCan ⁴.....	...	...	15	12	10	11	12	10	10	10
TPT.....	11	11	12	11	8	7	7	7	8	8
Other.....	10	14	5	10	7	6	6	7	5	5
TOTAL.....	406	409	367	341	267	295	381	362	380	377

See footnotes at end of section.

TABLE 22.

Federal Government Grants and Research Fellowships to Canadian Business Enterprises for R&D, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
ACOA.....	15	15	14	11	5	7	11	8	7	5
CED (Qué) ¹	19	23	19	15	9	8	4	5	4	2
COMM.....	5	...	...	...	...	...	...	...	...	...
EMR.....	12	11	...	...	...	...	...	...	...	...
FOR.....	8	9	...	...	...	...	...	...	...	...
IND ³.....	...	208	223	173	177	299	223	191	298	369
ISTC.....	206	...	...	...	...	...	...	...	...	...
NRC.....	60	65	73	76	81	82	99	88	97	85
NRCan ⁴.....	...	...	20	16	13	10	15	37	35	35
NSERC.....	2	3	18	17	11	15	10	10	10	20
WEDO.....	15	13	11	12	6	4	2	11	9	10
Other.....	20	17	10	4	4	1	4	2	14	20
TOTAL.....	362	364	388	324	306	426	368	352	474	546

See footnotes at end of section.

TABLE 23.

Federal Government Payments to the Higher Education Sector for R&D, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
Contracts	38	33	29	30	26	25	23	21	22	23
Grants and contributions	734	736	761	724	702	671	789	958	1,141	1,363
Research fellowships	47	45	45	43	32	29	30	31	37	40
TOTAL	820	814	835	797	761	725	842	1,010	1,200	1,426

TABLE 24.

Federal Government Payments to the Higher Education Sector for R&D, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AGR.....	3	3	5	3	1	1	1	1	1	1
CED (Qué) ¹	5	3	10	5	8	3	5	--	--	--
CFI.....	...	...	...	...	...	...	27	115	182	300
CIHR.....	...	...	...	...	...	...	...	279	368	418
CIDA.....	24	22	21	20	20	19	18	18	17	19
CSA.....	6	5	6	7	5	7	7	7	6	6
EMR.....	7	6	...	...	...	...	...	...	...	...
ENV.....	5	9	15	14	7	10	9	9	9	8
HC.....	11	9	15	16	17	12	7	6	6	3
MRC.....	231	233	239	226	215	210	241	...	...	...
NDEF.....	7	6	6	6	8	7	5	4	4	4
NRC.....	37	32	35	35	33	36	39	39	39	40
NRCan ⁴.....	...	...	7	5	3	2	2	3	3	3
NSERC.....	401	394	398	383	377	355	398	431	443	482
SSHRC.....	61	61	61	63	57	57	59	77	91	112
Other.....	22	31	17	14	10	6	24	21	31	30
TOTAL	820	814	835	797	761	725	842	1,010	1,200	1,426

See footnotes at end of section.

TABLE 25.

Federal Government Contracts to the Higher Education Sector for R&D, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL	1	1	1	2	1	1	1	--	--	--
AGR.....	1	1	--	--	--	--	--	--	--	--
CIDA.....	11	10	9	9	9	8	8	8	8	9
CSA.....	6	5	6	6	5	7	7	6	5	6
EMR	4	4	...	...	...	...	...	...	...	...
ENV	1	1	1	1	1	1	2	2	2	3
NDEF.....	7	6	6	6	5	5	3	2	2	2
NRC.....	1	1	--	--	--	--	--	--	0	0
NRCan ⁴.....	...	...	4	2	1	1	1	1	1	1
Other.....	6	4	2	4	4	2	1	2	4	2
TOTAL	38	33	29	30	26	25	23	21	22	23

See footnotes at end of section.

TABLE 26.

Federal Government Grants and Research Fellowships to the Higher Education Sector for R&D, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AGR.....	2	2	4	3	1	1	1	1	1	1
CFI.....	...	...	...	...	...	...	27	114	182	300
CIHR.....	...	...	...	...	...	...	...	379	368	418
CIDA.....	13	12	11	11	11	10	10	10	9	11
EMR	3	1	...	...	...	...	...	...	...	...
ENV	3	8	14	13	6	8	7	9	9	6
HC	10	9	15	14	16	11	6	6	5	1
IDRC.....	4	5	4	3	4	2	3	3	3	3
MRC	231	233	239	226	215	210	241	...	...	...
NRC.....	37	31	35	35	33	36	39	39	39	40
NRCan ⁴.....	...	...	4	3	2	1	1	2	2	2
NSERC.....	401	394	398	383	377	355	398	431	443	482
SSHRC.....	61	61	61	63	57	57	59	77	91	112
Other.....	17	25	21	14	14	9	27	18	26	27
TOTAL.....	781	781	806	767	735	700	819	989	1,178	1,403

See footnotes at end of section.

TABLE 27.

Federal Government Expenditures on RSA, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AGR.....	37	38	33	31	18	19	17	16	16	17
BC	31	30	28	27	29	30	34	29	29	37
CIDA.....	273	272	247	283	287	255	265	285	331	305
CMC.....	42	41	51	49	51	51	50	50	56	56
CMN.....	16	18	22	25	33	24	21	21	23	23
EA.....	54	...	...	...	...	...	...	...	...	...
EMR.....	66	81	...	...	...	...	...	...	...	...
ENV.....	512	528	375	366	321	326	312	342	349	376
F&O.....	121	125	123	145	151	126	172	178	201	200
FA&IT.....	...	52	60	58	59	58	49	54	46	48
FIN.....	24	24	22	20	19	20	22	26	24	24
FOR.....	8	8	...	...	...	...	...	...	...	...
HC.....	125	137	123	137	139	145	150	180	210	205
HRDC.....	...	28	31	38	43	48	43	46	55	52
IDRC.....	12	12	13	9	12	14	17	11	10	10
IND ³.....	...	57	65	56	61	62	69	62	66	66
ISTC.....	15	...	...	...	...	...	...	...	...	...
NA.....	39	43	62	65	46	36	35	35	41	46
NGC.....	23	24	27	30	26	37	39	34	34	36
NL.....	53	58	49	49	43	42	40	42	48	49
NMST.....	18	18	24	24	25	24	23	24	26	25
NRC.....	55	63	57	62	50	55	55	66	67	61
NRCan ⁴.....	...	...	91	72	58	45	41	45	45	46
NSERC.....	56	58	54	46	43	43	56	68	68	74
SSHRC.....	34	34	34	31	29	31	36	35	42	50
STCAN.....	339	337	343	397	526 ⁵	389	426	448	578	670 ⁵
TB.....	28	36	35	35	32	34	37	44	44	36
Other.....	212	152	202	173	202	217	215	221	226	233
TOTAL.....	2,193	2,274	2,170	2,228	2,303	2,130	2,224	2,362	2,635	2,745

See footnotes at end of section.

TABLE 28.

Federal Government Expenditures on Intramural RSA, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AGR.....	35	35	29	26	16	16	15	15	15	16
EMR.....	57	75	...	...	...	...	...	...	...	...
ENV.....	478	496	338	333	286	298	276	305	310	335
F&O.....	110	116	117	133	146	121	166	169	191	190
HC.....	104	110	108	116	122	130	135	166	195	199
IDRC.....	10	10	9	8	11	13	17	10	10	9
IND ³.....	...	53	64	55	61	62	69	62	65	66
ISTC.....	10	...	...	...	...	...	...	...	...	...
NA.....	37	41	60	63	44	34	33	33	39	43
NL.....	53	58	49	48	43	42	40	42	48	49
NRC.....	55	62	56	62	50	55	55	66	67	61
NRCan ⁴.....	...	...	77	60	50	38	31	37	37	37
STCAN.....	339	337	343	396	525 ⁵	389	425	447	577	670 ⁵
TB.....	28	36	35	35	32	34	37	44	44	36
Other.....	316	271	360	364	396	399	413	403	436	444
TOTAL.....	1,632	1,700	1,646	1,699	1,783	1,631	1,712	1,799	2,034	2,155

See footnotes at end of section.

TABLE 29.

Federal Government Payments to Canadian Business Enterprises for RSA, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
CIDA.....	120	113	104	160	162	140	143	157	191	175
EMR.....	9	7	...	...	...	...	...	...	...	...
ENV.....	13	14	18	16	22	17	24	22	25	26
F&O.....	9	7	3	11	5	4	5	1	1	1
HC.....	2	3	4	3	2	2	1	1	1	1
HRDC.....	...	8	7	4	2	3	3	4	4	4
IND ³.....	...	2	--	--	--	0	--	--	--	0
ISTC.....	3	...	...	...	...	...	...	...	...	...
NDEF.....	0	0	0	--	12	15	11	11	11	11
NRCan ⁴.....	...	...	6	4	6	7	7	6	6	6
TPT.....	3	3	5	1	1	2	1	1	1	1
Other.....	25	24	27	22	16	16	8	9	10	10
TOTAL.....	184	181	174	221	228	206	203	212	250	235

See footnotes at end of section.

TABLE 30.

Federal Government Payments to the Higher Education Sector for RSA, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
CIHR.....	...	...	...	...	...	...	...	10	6	15
CIDA.....	53	48	43	42	43	40	39	41	37	40
EA.....	18	...	...	...	...	...	...	...	...	...
FA&IT .....	...	16	16	14	14	18	14	16	13	14
HC	8	8	6	9	9	6	8	8	8	1
MRC	8	7	7	7	6	7	9	...	...	...
NSERC	47	49	46	38	36	37	48	60	57	62
SSHRC	18	20	19	19	18	20	23	21	25	30
Other.....	8	11	10	7	8	7	6	8	8	10
TOTAL	160	159	147	135	133	135	147	164	154	172

Footnotes :

- ¹ Formally known as Federal Office of Regional Development – Québec (FORD).
- ² The Government reorganization transferred the Canadian Parks Services to the Department of Canadian Heritage in 1994-95. Parks Canada was established as a agency of the federal government by an Act of Parliament in December 1998.
- ³ Figures for Industry Canada, 1993-94 reflect the reorganization of Industry, Science and Technology Canada and program components of Communications, Consumer and Corporate Affairs and Investment Canada.
- ⁴ The Government reorganization in 1994-95 amalgamated the departments of Energy, Mines and Resources and Forestry to create the Department of Natural Resource.
- ⁵ Census year.

Natural Sciences

TABLE 31.

Federal Government Expenditures on S&T in the Natural Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^r	1993-94 ^r	1994-95 ^r	1995-96 ^r	1996-97 ^r	1997-98 ^r	1998-99 ^r	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
R&D :										
Current expenditures	3,015	3,097	3,072	2,945	2,899	2,879	3,039	3,350	3,635	4,005
Administration of extramural programs ...	138	143	145	144	142	143	176	158	176	191
Capital expenditures	201	194	205	162	140	152	136	144	140	167
Sub-total R&D	3,353	3,434	3,422	3,252	3,181	3,174	3,350	3,653	3,951	4,363
RSA :										
Scientific Data collection	562	632	562	575	540	565	595	670	716	742
Information services	165	145	173	180	170	143	146	154	161	162
Special services and studies	186	168	165	216	237	210	221	240	286	273
Education support	79	80	72	65	65	63	78	92	99	112
Administration of extramural programs ...	21	19	21	18	17	18	18	21	22	21
Capital expenditures	92	121	111	71	62	48	41	36	45	36
Sub-total RSA	1,104	1,164	1,104	1,125	1,091	1,048	1,100	1,213	1,329	1,346
TOTAL	4,459	4,599	4,526	4,377	4,273	4,222	4,450	4,866	5,279	5,708

TABLE 32.

Federal Government Expenditures on S&T in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
ACOA.....	16	35	41	34	21	7	29	27	25	14
AECL.....	167	161	169	168	240	174	135	132	136	147
AGR.....	345	354	347	348	359	350	344	380	348	356
CED(Qué) ¹	28	30	35	24	28	22	23	12	10	6
CFIA.....	...	...	...	...	28	30	30	32	36	33
CFI.....	...	...	...	...	...	2	31	119	187	306
CIHR.....	...	...	...	...	...	...	...	317	411	476
CIDA.....	200	186	178	218	222	194	200	216	251	231
CMN.....	20	22	26	29	35	26	23	23	26	26
COMM.....	46	...	...	...	...	...	...	...	...	...
CSA.....	371	387	320	299	253	230	343	305	343	355
EMR.....	334	352	...	...	...	...	...	...	...	...
ENV.....	535	574	544	525	452	449	423	534	494	567
F&O.....	221	233	231	238	237	194	271	279	316	314
FOR.....	99	115	...	...	...	...	...	...	...	...
HC.....	128	144	154	170	187	185	189	220	258	250
IDRC.....	38	41	35	30	27	22	19	23	23	22
IND ².....	...	357	376	309	277	392	326	284	396	473
ISTC.....	247	...	...	...	...	...	...	...	...	...
MRC.....	257	259	265	252	242	238	277	...	...	...
NDEF.....	271	251	249	230	240	294	288	319	309	309
NRC.....	513	503	505	481	479	524	554	597	649	660
NRCan ³.....	...	...	464	475	430	396	386	421	401	408
NSERC.....	501	496	494	471	453	436	499	549	563	613
TPT.....	28	29	29	21	16	19	19	17	19	20
WEDO.....	24	30	18	16	14	9	13	24	43	43
Other.....	70	40	46	39	33	29	28	36	35	79
TOTAL.....	4,459	4,599	4,526	4,377	4,273	4,222	4,450	4,866	5,279	5,708

See footnotes at end of section.

TABLE 33.

Federal Government Intramural Expenditures on S&T in the Natural Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
R&D :										
Current expenditures	1,316	1,356	1,343	1,363	1,441	1,356	1,356	1,471	1,506	1,510
Administration of extramural programs	138	143	145	144	142	143	176	158	176	191
Capital expenditures.....	201	194	205	162	140	152	136	144	140	167
Sub-total R&D	1,656	1,694	1,694	1,669	1,724	1,651	1,667	1,774	1,822	1,867
RSA :										
Scientific data collection	493	563	500	512	482	506	525	599	640	670
Information services	133	116	136	140	133	120	123	127	134	132
Special services and studies	64	52	54	70	81	68	78	84	104	106
Education support	5	5	3	5	7	6	7	7	8	8
Administration of extramural programs	21	18	21	18	17	18	18	21	22	21
Capital expenditures	92	121	111	71	62	48	41	36	45	36
Sub-total RSA	808	876	825	817	783	766	792	874	952	974
TOTAL	2,464	2,570	2,519	2,486	2,507	2,417	2,459	2,648	2,774	2,841

TABLE 34.

Federal Government Intramural Expenditures on S&T in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
AECL	146	142	146	148	219	154	114	123	127	131
AGR.....	328	338	330	337	355	348	341	360	328	336
CCA.....	28	...	...	...	...	...	...	...	...	...
CFIA .....	...	...	...	...	28	30	30	32	36	33
CMN	20	22	25	29	33	25	23	23	26	25
COMM	33	...	...	...	...	...	...	...	...	...
CSA	88	86	61	72	64	55	86	55	77	82
EMR.....	283	297	...	...	...	...	...	...	...	...
ENV	490	527	479	460	395	401	365	415	432	454
F&O	202	221	223	217	229	186	262	268	304	302
FOR.....	83	88	...	...	...	...	...	...	...	...
HC	110	127	131	143	158	165	172	207	245	242
IND ².....	...	115	138	123	90	85	91	84	88	93
ISTC	22	...	...	...	...	...	...	...	...	...
NDEF.....	161	145	147	128	142	151	151	181	168	166
NRC.....	397	389	377	357	350	394	403	456	504	526
NRCan ³.....	...	...	382	402	370	347	334	343	327	333
TPT.....	11	11	10	5	6	7	8	6	7	7
Other.....	62	62	70	65	68	69	79	95	105	111
TOTAL	2,464	2,570	2,519	2,486	2,507	2,417	2,459	2,648	2,774	2,841

See footnotes at end of section.

TABLE 35.

Federal Government Payments to Canadian Business Enterprises for S&T in the Natural Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
R&D	762	770	750	662	570	720	747	711	853	923
RSA :										
Scientific data collection	36	36	29	39	37	38	44	40	46	45
Information services	6	5	9	10	14	8	8	9	11	10
Special services and studies	107	102	95	133	144	124	123	133	158	146
Education support	2	2	2	2	2	2	2	2	3	3
TOTAL	913	915	885	846	767	892	924	896	1,070	1,126

TABLE 36.

Federal Government Payments to Canadian Business Enterprises for S&T in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
ACOA	15	15	14	11	5	7	11	9	7	4
AECL	15	14	20	15	17	14	16	7	8	15
CED (Qué) ¹	19	23	20	15	9	8	4	5	4	2
CIDA	104	98	90	142	143	124	127	139	171	155
COMM	11	...	...	...	...	...	...	...	...	...
CSA	254	266	217	185	142	143	223	214	239	243
EMR	35	34	...	...	...	...	...	...	...	...
ENV	17	18	27	29	32	26	34	31	34	36
F&O	15	8	5	19	5	5	7	1	1	1
FOR	10	10	...	...	...	...	...	...	...	...
IND ² .....	...	216	223	174	177	299	223	192	299	369
ISTC	209	...	...	...	...	...	...	...	...	...
NDEF	95	90	88	88	85	118	117	120	123	125
NRC	61	65	73	76	82	82	99	89	97	85
NRCan ³.....	...	...	41	31	30	27	34	53	51	51
TPT.....	15	14	18	13	9	9	8	7	8	9
WEDO.....	16	18	15	14	8	5	2	11	10	10
Other.....	22	26	34	34	23	25	19	18	18	21
TOTAL	913	915	885	846	767	892	924	896	1,070	1,126

See footnotes at end of section.

TABLE 37.

Federal Government Payments to the Higher Education Sector for S&T in the Natural Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
R&D	733	729	749	713	680	644	762	913	1,091	1,298
RSA :										
Scientific data collection	5	8	7	8	7	6	9	8	8	4
Information services	2	2	2	2	2	1	2	4	3	5
Special services and studies	2	1	2	2	1	1	1	3	3	3
Education support	62	63	58	49	48	49	63	74	67	79
TOTAL	805	804	818	773	737	702	836	1,002	1,171	1,389

TABLE 38.

Federal Government Payments to the Higher Education Sector for S&T in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
AGR.....	3	3	5	3	1	1	1	1	1	1
CED (Qué) ¹	5	3	10	5	8	3	5	--	--	--
CFI.....	...	...	...	...	...	--	27	115	182	300
CIHR.....	...	...	...	...	...	...	...	289	373	433
CIDA.....	22	20	18	17	18	16	16	17	15	17
CSA.....	6	5	6	7	5	7	7	7	6	6
EMR.....	7	6	...	...	...	...	...	...	...	...
ENV.....	5	9	16	15	8	10	10	10	10	10
FOR.....	3	2	...	...	...	...	...	...	...	...
HC.....	7	7	9	13	13	6	7	6	6	1
IND ².....	...	14	5	4	1	--	--	--	--	0
ISTC.....	4	...	...	...	...	...	...	...	...	...
MRC.....	238	241	246	233	221	217	250	...	...	...
NDEF.....	7	6	6	6	6	5	3	3	3	3
NRC.....	37	32	35	35	33	36	39	39	39	40
NRCan ³.....	...	...	7	5	3	2	2	4	4	4
NSERC.....	449	443	443	421	413	392	447	491	500	544
Other.....	12	13	12	9	7	7	22	20	32	30
TOTAL	805	804	818	773	737	702	836	1,002	1,171	1,389

See footnotes at end of section.

TABLE 39.

Federal Government Expenditures on R&D in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
ACOA.....	16	35	41	34	21	7	29	27	25	14
AECL.....	159	155	163	163	240	174	135	132	136	147
AGR.....	319	328	323	328	350	340	334	370	338	345
CED (Qué) ¹	28	30	35	24	28	22	23	12	10	6
CFI.....	...	...	...	...	...	2	31	118	187	306
CIHR.....	...	...	...	...	...	...	...	304	403	458
CIDA.....	51	45	45	36	37	35	34	35	26	24
COMM.....	44	...	...	...	...	...	...	...	...	...
CSA.....	360	379	314	291	245	224	337	300	324	341
EMR.....	268	271	...	...	...	...	...	...	...	...
ENV.....	116	132	173	163	134	126	115	196	148	194
F&O.....	111	114	114	99	95	78	109	110	124	123
FOR.....	92	106	...	...	...	...	...	...	...	...
HC.....	30	37	42	49	60	51	45	47	58	51
IDRC.....	37	41	35	30	27	21	18	21	21	20
IND ².....	...	317	322	268	230	345	274	239	346	420
ISTC.....	242	...	...	...	...	...	...	...	...	...
MRC.....	247	249	257	244	234	229	266	...	...	...
NDEF.....	267	248	246	227	215	259	259	290	280	279
NRC.....	458	441	449	419	429	470	499	530	582	599
NRCan ³.....	...	...	374	403	372	351	345	376	357	362
NSERC.....	445	439	440	425	410	393	443	481	495	539
TPT.....	21	22	21	19	15	15	16	14	17	17
WEDO.....	22	24	13	14	12	7	13	24	43	43
Other.....	20	21	15	16	28	24	26	27	31	75
TOTAL.....	3,353	3,434	3,422	3,252	3,181	3,174	3,350	3,653	3,951	4,363

See footnotes at end of section.

TABLE 40.

Federal Government Current Expenditures on R&D in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
ACOA	16	35	41	34	21	7	29	27	25	14
AECL	148	151	155	156	240	173	133	131	134	144
AGR.....	281	310	302	307	315	307	302	344	315	321
CED (Qué) ¹	28	30	35	24	28	22	23	12	10	6
CFI.....	...	...	...	...	...	2	31	118	187	306
CIHR.....	...	...	...	...	...	...	...	304	403	457
CIDA.....	51	45	45	37	37	35	34	35	26	24
COMM.....	38	...	...	...	...	...	...	...	...	...
CSA.....	330	348	308	286	244	223	336	298	324	341
EMR.....	244	248	...	...	...	...	...	...	...	...
ENV.....	107	123	152	149	125	118	109	187	137	186
F&O.....	103	99	101	93	92	76	108	108	122	122
FOR.....	85	98	...	...	...	...	...	...	...	...
HC.....	29	34	40	47	58	50	42	45	51	48
IDRC.....	37	41	35	30	27	21	18	21	21	20
IND ².....	...	284	281	225	224	342	272	238	344	413
ISTC.....	242	...	...	...	...	...	...	...	...	...
MRC.....	247	249	256	244	234	229	265	...	...	...
NDEF.....	243	234	227	215	202	243	247	255	248	248
NRC.....	418	407	403	393	390	417	453	486	547	535
NRCan ³.....	...	...	348	377	343	318	315	353	335	341
NSERC.....	445	439	439	424	409	393	443	481	495	539
TPT.....	20	20	20	19	15	15	16	14	16	17
WEDO.....	22	24	13	14	12	7	13	23	43	43
Other.....	18	21	16	16	25	23	26	29	28	71
TOTAL	3,152	3,240	3,217	3,090	3,041	3,021	3,214	3,509	3,811	4,196

See footnotes at end of section.

TABLE 41.

Federal Government Expenditures on Intramural R&D in the Natural Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^r	1993-94 ^r	1994-95 ^r	1995-96 ^r	1996-97 ^r	1997-98 ^r	1998-99 ^r	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
In-house R&D	1,208	1,252	1,234	1,237	1,317	1,237	1,235	1,346	1,392	1,390
R&D contracts.....	10	6	19	27	35	37	35	37	36	37
Supporting contracts	83	82	78	87	84	75	78	81	68	73
Research fellowships	16	16	12	12	6	7	7	9	10	10
Administration of extramural programs	138	143	145	144	142	143	176	158	176	191
Capital expenditures.....	201	194	205	162	140	152	136	144	140	167
TOTAL	1,656	1,694	1,694	1,669	1,724	1,651	1,667	1,774	1,822	1,867

TABLE 42.

Federal Government Expenditures on Intramural R&D in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^r	1993-94 ^r	1994-95 ^r	1995-96 ^r	1996-97 ^r	1997-98 ^r	1998-99 ^r	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
AECL	138	136	140	143	219	154	114	123	127	131
AGR.....	304	313	306	317	346	338	332	351	319	326
COMM	31	...	...	...	...	...	...	...	...	...
CSA	78	79	54	63	57	49	81	51	58	69
EMR.....	226	223	...	...	...	...	...	...	...	...
ENV	105	117	145	131	113	106	93	114	126	123
F&O.....	101	110	111	89	92	75	105	108	122	121
FOR.....	76	80	...	...	...	...	...	...	...	...
HC	21	32	28	32	40	38	38	42	51	43
IND ² .....	...	77	85	82	43	38	39	39	38	41
ISTC	21	...	...	...	...	...	...	...	...	...
NDEF.....	157	142	144	125	129	137	140	171	158	155
NRC.....	343	326	321	294	300	340	349	389	437	465
NRCan ³.....	...	...	305	342	320	309	303	307	291	296
TPT.....	7	8	7	5	5	6	7	6	7	7
Other.....	43	46	43	42	54	56	63	73	72	90
TOTAL.....	1,656	1,694	1,694	1,669	1,724	1,651	1,667	1,774	1,822	1,867

See footnotes at end of section.

TABLE 43.

Federal Government Payments to Canadian Business Enterprises for R&D in the Natural Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
Contracts	403	407	365	339	265	294	379	360	379	376
Grants and contributions	357	360	379	320	298	422	363	340	462	534
Research fellowships	2	3	6	3	7	4	5	12	12	12
TOTAL.....	762	770	750	662	570	720	747	711	853	923

TABLE 44.

Federal Government Payments to Canadian Business Enterprises for R&D in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
ACOA	15	15	14	11	5	7	11	8	7	4
AECL	15	14	20	15	17	14	16	7	8	14
AGR	6	7	5	3	2	--	--	--	0	0
CED (Qué) ¹	19	23	19	15	9	8	4	5	4	2
COMM	11	...	...	...	...	...	...	...	...	...
CSA	254	266	217	185	142	143	223	214	239	243
EMR	26	27	...	...	...	...	...	...	...	...
ENV	5	4	9	13	10	8	10	8	10	10
FOR	10	10	...	...	...	...	...	...	...	...
IND ² .....	...	214	223	173	177	299	223	191	298	369
ISTC	206	...	...	...	...	...	...	...	...	...
NDEF	95	90	88	88	73	105	107	110	113	115
NRC	61	65	73	76	82	82	99	89	97	85
NRCan ³ .....	...	...	35	27	23	20	27	47	45	45
TPT	12	11	13	12	8	7	7	7	8	8
WEDO	15	13	11	12	6	4	2	11	10	10
Other	12	11	23	32	16	23	18	14	14	18
TOTAL.....	762	770	750	662	570	720	747	711	853	923

See footnotes at end of section.

TABLE 45.

Federal Government Contracts to Canadian Business Enterprises for R&D in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL.....	15	14	20	15	17	14	16	7	8	15
COMM.....	5	...	...	...	...	...	...	...	...	...
CSA	254	266	217	185	142	143	222	213	226	214
EMR.....	14	17	...	...	...	...	...	...	...	...
ENV	5	4	8	12	9	8	10	8	10	10
F&O.....	6	2	2	8	1	1	1	--	--	--
NDEF	84	81	87	88	73	105	107	110	113	115
NRC	1	--	--	--	--	0	0	--	--	--
NRCan ³.....	...	...	15	12	10	11	12	10	10	10
TPT	11	11	12	11	8	7	7	7	8	8
Other.....	8	12	4	8	5	5	4	5	4	4
TOTAL	403	407	365	339	265	294	379	360	379	376

See footnotes at end of section.

TABLE 46.

Federal Government Grants and Research Fellowships to Canadian Business Enterprises for R&D in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
ACOA.....	15	15	14	11	5	7	11	8	7	4
CED (Qué).....	19	23	19	15	9	8	4	5	4	2
COMM.....	5	...	...	...	...	...	...	...	...	...
EMR.....	12	11	...	...	...	...	...	...	...	...
FOR.....	8	9	...	...	...	...	...	...	...	...
IND ².....	...	208	223	173	177	299	223	191	298	369
ISTC.....	206	...	...	...	...	...	...	...	...	...
NRC.....	60	65	73	76	81	82	99	88	96	85
NRCan ³.....	...	...	20	16	13	10	15	37	35	35
NSERC.....	2	3	18	17	11	14	10	10	10	11
WEDO.....	15	13	11	12	6	4	2	11	10	10
Other.....	17	16	7	3	3	2	4	2	14	30
TOTAL	359	363	385	323	305	426	368	352	474	546

See footnotes at end of section.

TABLE 47.

Federal Government Payments to the Higher Education Sector for R&D in the Natural Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
Contracts	27	23	19	21	16	16	15	13	13	14
Grants and contributions	668	670	695	659	641	608	725	873	1,044	1,246
Research fellowships	39	36	35	33	23	21	22	28	34	38
TOTAL	733	729	749	713	680	644	762	913	1,091	1,298

TABLE 48.

Federal Government Payments to the Higher Education Sector for R&D in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AGR.....	3	3	5	3	1	1	1	1	1	1
CFI.....	...	...	...	...	...	...	27	114	182	300
CIHR.....	...	...	...	...	...	...	...	279	368	418
CIDA.....	13	12	11	11	11	10	10	10	10	10
EMR.....	7	6	...	...	...	...	...	...	...	...
ENV	5	9	15	14	7	10	9	9	9	8
HC	4	3	6	8	8	3	1	1	2	1
IND ² .....	...	14	5	4	1	--	--	0	0	0
ISTC	3	...	...	...	...	...	...	...	...	...
MRC	231	233	239	226	215	210	241	...	...	...
NDEF.....	7	6	6	6	6	5	3	3	3	3
NRC.....	37	32	35	35	33	36	39	39	39	40
NRCan ³.....	...	...	7	5	3	2	2	3	3	3
NSERC	401	394	398	383	377	355	398	431	443	482
Other.....	20	15	20	17	17	12	30	23	31	32
TOTAL.....	733	729	749	713	680	644	762	913	1,091	1,298

See footnotes at end of section.

TABLE 49.

Federal Government Contracts to the Higher Education Sector for R&D in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL	1	1	1	2	1	1	1	--	--	--
AGR.....	1	1	0	--	--	--	--	--	--	--
CSA	6	5	6	6	5	7	7	6	5	6
EMR	4	4	...	...	...	...	...	...	...	...
ENV	1	1	1	1	1	1	2	2	2	2
NDEF.....	7	6	6	6	5	5	3	2	2	2
NRC.....	1	1	--	--	--	--	--	--	0	0
NRCan ³.....	...	...	4	2	1	1	1	1	1	1
TPT.....	2	2	1	1	1	--	--	--	--	1
Other.....	4	2	--	3	2	1	1	2	3	2
TOTAL	27	23	19	21	16	16	15	13	13	14

See footnotes at end of section.

TABLE 50.

Federal Government Grants and Research Fellowships to the Higher Education Sector for R&D in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AGR.....	2	2	4	3	--	1	1	1	1	1
CFI .....	...	...	...	...	...	...	27	114	182	300
CIHR.....	...	...	...	...	...	...	...	279	368	418
CIDA.....	13	12	11	11	11	10	10	10	10	10
EMR	3	1	...	...	...	...	...	...	...	...
ENV.....	3	8	14	13	6	8	7	7	7	6
HC.....	2	3	6	7	8	3	1	1	1	--
IDRC.....	3	3	3	1	2	1	1	1	1	1
IND ² .....	...	13	5	4	1	--	--	0	0	0
ISTC.....	3	...	...	...	...	...	...	...	...	...
MRC.....	231	233	239	226	215	210	241	...	...	...
NRC.....	37	31	35	35	33	36	39	39	39	40
NRCan ³.....	...	...	4	3	2	1	1	2	2	2
NSERC.....	401	394	398	383	377	355	398	431	443	482
Other	9	6	11	6	9	4	21	16	24	24
TOTAL	707	706	730	692	664	629	747	901	1,078	1,284

See footnotes at end of section.

TABLE 51.

Federal Government Expenditures on RSA in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL.....	8	6	6	6	0	0	0	0	0	0
AGR.....	26	25	26	21	9	10	9	10	9	11
CFIA.....	...	...	...	...	15	17	19	22	21	21
CIHR.....	...	...	...	...	...	...	...	12	7	18
CIDA.....	150	141	133	181	185	160	165	182	225	207
CMN.....	16	18	22	25	33	24	21	21	24	23
EMR.....	66	81	...	...	...	...	...	...	...	...
ENV.....	419	442	370	362	317	323	308	338	346	373
F&O.....	111	119	116	139	142	116	162	170	192	191
FOR.....	8	8	...	...	...	...	...	...	...	...
HC.....	98	107	112	121	127	133	144	173	200	200
IDRC.....	--	--	--	--	--	--	2	2	2	2
IND ².....	...	40	54	42	47	47	52	45	50	52
ISTC.....	5	...	...	...	...	...	...	...	...	...
MRC.....	10	10	9	8	8	9	11	...	...	...
NRC.....	55	63	57	62	50	55	55	66	67	61
NRCan ³.....	...	...	91	72	58	45	41	45	45	46
NSERC.....	56	58	54	46	43	43	56	68	68	74
Other.....	75	46	54	40	57	66	55	59	73	67
TOTAL.....	1,104	1,164	1,104	1,125	1,091	1,048	1,100	1,213	1,329	1,346

See footnotes at end of section.

TABLE 52.

Federal Government Expenditures on Intramural RSA in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AECL	8	6	6	5	0	0	0	0	0	0
AGR	24	24	25	20	9	10	9	8	9	10
CFIA .....	...	...	...	...	15	17	19	22	21	21
CMN	16	18	22	24	31	23	21	21	23	23
EMR	57	75	...	...	...	...	...	...	...	...
ENV	386	410	333	329	282	295	272	301	307	331
F&O	101	111	111	128	137	111	157	161	182	181
FOR	7	8	...	...	...	...	...	...	...	...
HC	89	95	104	111	118	127	135	165	195	199
IDRC	--	--	--	--	--	--	1	2	2	2
IND ² .....	...	37	53	41	47	47	52	45	49	52
NRC	55	62	56	62	50	55	55	66	67	61
NRCan ³ .....	...	...	77	60	50	38	31	37	37	37
Other	64	29	38	36	43	43	39	46	60	57
TOTAL	808	876	825	816	783	766	792	874	952	974

See footnotes at end of section.

TABLE 53.

Federal Government Payments to Canadian Business Enterprises for RSA in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
CIDA	103	97	89	141	143	124	126	139	170	155
EMR	9	7	...	...	...	...	...	...	...	...
ENV	13	14	18	16	22	17	24	22	25	26
F&O	8	6	3	10	4	4	4	1	1	1
HC	2	2	2	1	1	--	--	1	--	--
NDEF	--	--	--	--	12	13	10	10	10	10
RNCan ³ .....	...	...	6	4	6	7	7	6	6	6
TPT	3	3	5	1	1	1	1	1	1	1
Other	13	16	12	11	8	6	6	5	5	4
TOTAL	151	145	135	184	197	172	177	185	218	203

See footnotes at end of section.

TABLE 54.

Federal Government Payments to the Higher Education Sector for RSA in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
CIHR.....	...	...	...	...	...	...	...	10	6	15
CIDA.....	9	8	7	6	7	6	6	7	6	6
HC.....	4	5	3	5	5	3	6	5	4	--
IAND.....	2	3	5	3	2	1	--	1	--	1
CRM.....	8	7	7	7	6	7	9	...	...	...
NSERC.....	47	49	46	38	36	37	48	60	57	62
Other.....	1	3	1	1	2	4	5	6	7	7
TOTAL.....	71	75	69	60	58	58	74	89	80	91

Footnotes:

¹ Formerly known as Federal Office of Regional Development - Québec (FORD).

² Figures for Industry Canada, 1993-94 reflect the reorganization of Industry, Science and Technology Canada and program components of Communications, Consumer and Corporate Affairs and Investment Canada.

³ The Government reorganization in 1994-95 amalgamated the departments of Energy, Mines and Resources and Forestry to create the Department of Natural Resources.

Social Sciences

TABLE 55.

Federal Government Expenditures on S&T in the Social Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
R&D :										
Current expenditures	213	223	216	195	188	184	203	209	231	256
Administration of extramural programs.....	20	20	19	18	22	20	24	28	29	28
Capital expenditures	1	1	1	1	--	1	1	1	--	1
Sub-total R&D.....	233	244	235	213	210	205	228	237	260	283
RSA :										
General purpose data collection	339	337	320	348	508	439	464	476	598	700
Information services	359	382	369	359	311	282	286	292	337	338
Special services and studies	232	237	204	231	226	226	230	245	240	221
Education support	102	97	98	74	74	79	79	77	75	85
Administration of extramural programs.....	13	13	15	15	15	14	17	19	23	22
Capital expenditures	43	43	60	76	77	43	48	40	33	33
Sub-total RSA.....	1,089	1,109	1,066	1,103	1,211	1,082	1,124	1,149	1,307	1,399
TOTAL.....	1,321	1,352	1,301	1,316	1,421	1,287	1,352	1,386	1,567	1,683

TABLE 56.

Federal Government Expenditures on S&T in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
AGR.....	12	12	9	10	9	9	7	7	7	7
BC.....	35	39	36	35	39	41	45	41	41	51
CH ¹.....	...	8	75	75	75	70	1	1	1	1
CIDA.....	142	147	130	116	117	109	114	119	121	113
CMC.....	46	46	56	53	56	55	54	55	61	60
CMHC.....	18	18	19	15	13	14	17	22	18	19
EA.....	54	...	...	...	...	...	...	...	...	...
E&I.....	42	...	...	...	...	...	...	...	...	...
ENV.....	96	89	5	4	4	3	4	4	4	4
FA&IT.....	...	52	60	58	59	58	49	54	46	48
FIN.....	24	24	22	20	19	20	22	26	24	24
HC.....	46	47	26	31	27	25	15	17	17	10
HRDC.....	...	62	66	60	60	65	74	60	78	78
IDRC.....	69	74	67	58	61	57	65	59	57	54
IND ².....	...	17	12	15	14	15	17	17	16	14
ISTC.....	10	...	...	...	...	...	...	...	...	...
NA.....	40	43	62	65	46	36	35	35	41	46
NGC.....	29	30	34	37	33	46	49	42	42	46
NL.....	53	58	49	49	43	42	40	42	48	49
NMST.....	18	18	24	24	25	24	23	24	26	25
PCA ¹.....	...	...	...	...	...	...	74	54	54	55
PCO.....	24	28	4	2	--	--	--	5	6	3
SSHRC.....	103	102	103	101	93	96	104	127	152	183
STCAN.....	351	347	353	406	535 ³	400	437	461	591	683 ³
TB.....	28	37	36	35	32	35	37	44	44	36
Other.....	81	54	53	47	61	67	69	70	72	74
TOTAL.....	1,321	1,352	1,301	1,316	1,421	1,287	1,352	1,386	1,567	1,683

See footnotes at end of section.

TABLE 57.

Federal Government Intramural Expenditures on S&T in the Social Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^r	1993-94 ^r	1994-95 ^r	1995-96 ^r	1996-97 ^r	1997-98 ^r	1998-99 ^r	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
R&D :										
Current expenditures	40	43	40	40	45	48	51	57	57	57
Administration of extramural programs	20	20	19	18	22	20	24	28	29	28
Capital expenditures	1	1	1	1	1	1	1	1	--	1
Sub-total R&D	61	63	60	58	68	69	76	85	86	86
RSA :										
General purpose data collection	303	297	287	328	490	421	454	464	585	690
Information services	308	317	323	317	275	244	247	253	296	296
Special services and studies	152	150	131	143	140	139	145	147	143	138
Education support	6	5	5	4	4	5	8	2	1	1
Administration of extramural programs	13	13	15	15	15	14	17	19	23	22
Capital expenditures	43	43	59	76	77	43	48	40	33	33
Sub-total RSA	824	824	820	883	1,000	866	920	925	1,082	1,181
TOTAL	884	887	880	941	1,068	934	996	1,010	1,168	1,267

TABLE 58.

Federal Government Intramural Expenditures on S&T in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
BC	35	39	36	35	39	41	45	41	41	51
CH ¹ .....	...	--	70	70	72	65	...	...	...	...
CMC	46	46	56	53	56	55	54	55	61	60
CMHC	12	13	13	10	9	10	13	17	13	15
EA	12	...	...	...	...	...	...	...	...	...
E&I	14	...	...	...	...	...	...	...	...	...
ENV	95	88	5	4	4	3	4	4	4	4
FA&IT .....	...	10	10	11	11	11	10	11	10	10
FIN	24	24	22	20	19	20	22	26	24	24
HC	17	17	6	6	5	4	2	2	2	1
HRDC .....	...	16	16	29	32	28	23	25	36	36
IDRC	24	23	23	21	30	32	39	37	36	34
IND ² .....	...	16	11	14	14	15	17	17	16	14
ISTC	10	...	...	...	...	...	...	...	...	...
NA	37	41	60	63	44	34	33	33	39	43
NGC	29	30	34	37	33	46	49	42	42	46
NL	53	58	49	48	43	42	39	42	48	49
NMST	18	18	24	24	25	24	23	24	26	25
PCA ¹ .....	...	...	...	...	...	...	74	53	53	54
STCAN	351	347	353	406	534 ³	400	437	461	591	682 ³
TB	28	36	35	35	32	34	37	44	44	36
Other	80	65	57	55	66	70	75	76	82	83
TOTAL	884	887	880	941	1,068	934	996	1,010	1,168	1,267

See footnotes at end of section.

TABLE 59.

Federal Government Payments to Canadian Business Enterprises for S&T in the Social Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
R&D	5	2	5	3	2	1	2	2	1	1
RSA :										
General purpose data collection	10	10	15	8	8	8	3	3	3	3
Information services	2	2	3	4	1	3	3	4	4	4
Special services and studies	21	24	21	23	22	21	19	21	25	24
Education support	1	1	1	1	1	1	1	1	1	1
TOTAL	39	39	45	40	34	35	29	30	33	33

TABLE 60.

Federal Government Payments to Canadian Business Enterprises for S&T in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AGR.....	1	1	3	2	1	1	--	--	--	--
CBC.....	5	5	6	5	5	5	...	...	...	...
CIDA.....	17	16	15	19	19	17	17	18	20	20
CMHC.....	2	3	3	2	2	2	2	3	3	3
E&I.....	7	...	...	...	...	...	...	...	...	...
FA&IT .....	...	--	6	1	1	0	0	0	0	0
HC	1	1	2	3	2	2	1	1	1	1
HRDC .....	...	8	9	5	3	3	3	4	4	4
JUS.....	1	1	--	1	1	1	0	--	--	--
Other.....	5	4	1	2	0	4	6	4	5	5
TOTAL	39	39	45	40	34	35	29	30	33	33

TABLE 61.

Federal Government Payments to the Higher Education Sector for S&T in the Social Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
R&D	86	85	86	85	81	80	80	97	109	128
RSA :										
General purpose data collection	4	3	3	4	3	4	2	3	4	1
Information services	7	7	7	8	9	8	9	9	9	10
Special services and studies	2	2	2	2	3	2	2	2	2	2
Education support	76	72	67	61	61	64	61	62	60	68
TOTAL	175	169	165	159	157	158	153	171	183	209

TABLE 62.

Federal Government Payments to the Higher Education Sector for S&T in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
CIDA.....	55	50	46	45	45	42	41	42	38	43
EA.....	18	...	...	...	...	...	...	...	...	...
FA&IT .....	...	16	16	14	14	18	14	16	13	14
HC	12	10	12	12	13	12	7	8	9	3
HRDC .....	...	5	5	2	3	4	4	3	2	2
IDRC.....	2	2	1	1	2	1	2	2	2	2
SSHRC	79	81	80	81	75	77	82	98	115	142
Other.....	9	5	5	4	5	4	3	2	4	3
TOTAL	175	169	165	159	157	158	153	171	183	209

TABLE 63.

Federal Government Expenditures on R&D in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
BC	4	9	8	8	10	11	11	12	12	13
CMHC.....	18	16	17	15	15	14	15	15	15	14
CIDA.....	5	5	5	4	4	4	5	5	5	5
E&I.....	22	...	...	...	...	...	...	...	...	...
HC	19	16	16	14	14	14	9	9	7	3
HRDC .....	...	35	35	22	18	17	31	15	23	25
IDRC.....	58	62	54	49	49	43	50	50	49	46
SECS.....	2	--	...	...	...	...	...	...	...	...
SGEN	6	5	5	5	4	4	4	4	4	4
SSHRC	69	68	69	70	64	65	68	92	110	133
STCAN	12	10	10	10	9 ³	11	12	13	14	13 ³
Other.....	19	17	15	16	22	21	23	22	21	27
TOTAL	233	244	235	213	210	205	228	237	260	283

See footnotes at end of section.

TABLE 64.

Federal Government Expenditures on Intramural R&D in the Social Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
In-house R&D	37	41	39	38	44	46	49	55	55	55
R&D contracts.....	1	1	1	1	1	1	1	1	1	1
Supporting contracts	1	1	1	1	1	1	1	1	1	1
Research fellowships	0	0	0	0	0	0	0	0	0	0
Administration of extramural programs	20	20	19	18	22	20	24	28	29	28
Capital expenditures.....	1	1	1	1	--	1	1	1	--	1
TOTAL	61	63	60	58	68	69	76	85	86	86

TABLE 65.

Federal Government Expenditures on Intramural R&D in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
BC	4	9	8	8	10	11	11	13	12	14
CMC	4	4	5	5	5	5	5	5	5	5
CMHC.....	3	3	3	2	2	2	3	4	3	4
HC	2	2	1	1	1	2	1	1	1	--
IDRC.....	15	14	14	13	19	19	23	28	28	26
NDEF.....	2	3	2	2	6	3	2	2	2	2
NGC.....	6	6	7	7	7	9	10	8	8	9
SGEN	3	3	3	3	2	2	2	2	2	2
SSHRC.....	5	5	5	5	5	5	6	7	9	9
STCAN	12	10	10	10	9 ³	11	12	13	14	13 ³
Other.....	5	4	2	2	1	0	1	2	2	2
TOTAL	61	63	60	58	68	69	76	85	86	86

See footnotes at end of section.

TABLE 66.

Federal Government Payments to Canadian Business Enterprises for R&D in the Social Sciences, by Activity, 1992-1993 to 2001-2002^P

Activity	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
Contracts	2	2	2	2	1	1	2	2	1	1
Grants and contributions	3	--	3	1	2	--	--	--	--	--
Research fellowships	0	0	0	0	0	0	0	0	0	0
TOTAL.....	5	2	5	3	3	2	3	2	1	1

TABLE 67.

Federal Government Payments to Canadian Business Enterprises for R&D in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
AGR.....	--	--	2	--	--	0	0	0	0	0
CMHC.....	1	1	1	1	1	1	1	1	1	1
E&I.....	3	...	...	...	...	...	...	...	...	...
HC.....	--	--	--	--	--	--	1	1	--	--
HRDC.....	...	--	2	1	1	--	--	0	0	0
Other.....	1	1	--	1	--	--	--	--	--	--
TOTAL	5	2	5	3	3	2	3	2	1	1

TABLE 68.

Federal Government Payments to the Higher Education Sector for R&D in the Social Sciences, by Activity, 1992-1993 to 2002-2002^P

Activity	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
Contracts	12	10	10	9	10	9	8	8	8	9
Grants and contributions	66	65	67	65	62	63	64	85	97	117
Research fellowships	8	9	10	10	10	8	8	3	4	2
TOTAL.....	86	85	86	85	81	80	80	97	109	128

TABLE 69.

Federal Government Payments to the Higher Education Sector for R&D in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
CIDA.....	11	10	10	9	9	9	8	9	8	9
E&I.....	3	...	...	...	...	...	...	...	...	...
HC.....	7	6	9	8	9	9	5	5	5	2
HRDC.....	...	4	4	2	2	3	3	2	2	2
IDRC.....	2	2	1	1	2	1	2	2	2	2
SSHRC.....	61	61	61	63	57	57	59	77	91	112
Other.....	3	2	1	1	2	1	3	2	2	1
TOTAL	86	85	86	85	81	80	80	97	109	128

TABLE 70.

Federal Government Expenditures on RSA in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
BC	31	30	28	27	29	30	34	29	29	37
CH ¹ .....	...	7	75	74	74	69	1	1	1	1
CIDA	123	131	114	101	102	95	99	104	106	98
CMC	42	41	51	49	51	50	50	50	56	56
CMHC	12	13	14	11	10	10	12	16	13	14
EA	54	...	...	...	...	...	...	...	...	...
E&I	20	...	...	...	...	...	...	...	...	...
ENV	93	86	5	4	4	3	4	4	4	4
FA&IT .....	...	52	60	58	59	58	49	54	46	48
FIN	24	24	22	20	19	20	22	26	24	24
HC	28	30	11	16	12	11	6	8	10	6
HRDC .....	...	28	31	38	43	48	43	46	55	52
IND ² .....	...	17	12	15	14	15	17	17	16	14
ISTC	10	...	...	...	...	...	...	...	...	...
IDRC	11	11	13	9	12	14	16	9	9	8
NA	40	43	62	65	46	36	35	35	41	46
NGC	23	24	27	30	26	37	39	34	34	36
NL	53	58	49	49	43	42	40	42	48	49
NMST	18	18	24	24	25	24	23	24	26	25
PCA ¹ .....	...	...	...	...	...	...	74	54	54	55
SSHRC	34	34	34	31	29	31	36	35	42	50
STCAN	339	337	343	397	526 ³	389	426	448	578	670 ³
TB	28	36	35	35	32	34	37	44	44	36
Other	106	89	57	50	56	67	62	69	71	70
TOTAL	1,089	1,109	1,066	1,103	1,211	1,082	1,124	1,149	1,307	1,399

See footnotes at end of section.

TABLE 71.

Federal Government Expenditures on Intramural RSA in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^r	1993-94 ^r	1994-95 ^r	1995-96 ^r	1996-97 ^r	1997-98 ^r	1998-99 ^r	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
	in millions of dollars									
AGR	11	11	4	6	7	6	6	7	6	6
BC	31	30	28	27	29	30	34	29	29	37
CH ¹ .....	...	--	70	70	72	65	...	...	...	...
CMC	42	41	51	49	51	50	50	50	56	56
CMHC	9	10	10	8	7	8	10	13	10	11
EA	12	...	...	...	...	...	...	...	...	...
E&I	14	...	...	...	...	...	...	...	...	...
ENV	92	86	5	4	4	3	4	4	4	4
FA&IT .....	...	10	10	11	11	11	10	11	10	10
FIN	24	24	22	20	19	20	22	26	24	24
HC	15	15	4	5	4	2	1	1	1	..
HRDC .....	...	15	15	29	32	28	23	24	35	35
IDRC	18	18	17	16	23	24	26	8	8	8
IND ² .....	...	16	11	14	14	15	17	17	16	14
ISTC	10	...	...	...	...	...	...	...	...	...
NA	37	41	60	63	44	34	33	34	39	43
NGC	23	24	27	30	26	37	39	34	34	36
NL	53	58	49	48	43	42	40	42	48	49
NMST	18	18	24	24	25	24	23	24	26	25
PCA ¹ .....	...	...	...	...	...	...	74	53	53	54
STCAN	339	337	343	396	525 ³	389	425	447	577	670 ³
TB	28	36	35	35	32	34	37	44	44	36
Other	57	43	43	37	44	54	57	57	62	63
TOTAL	824	824	820	883	1,000	866	920	925	1,082	1,181

See footnotes at end of section.

TABLE 72.

Federal Government Payments to Canadian Business Enterprises for RSA in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
CBC	5	5	6	5	5	5	...	...	...	...
CIDA	17	16	15	19	19	17	17	18	20	20
CMHC	1	2	2	1	1	1	1	2	2	2
E&I	4	...	...	...	...	...	...	...	...	...
HC	--	1	2	2	1	1	--	--	1	1
HRDC .....	...	8	7	4	2	3	3	4	4	4
JUS	1	1	--	1	1	1	0	--	--	--
Other	5	4	8	5	2	5	5	6	5	4
TOTAL	33	37	40	37	31	33	26	28	32	31

TABLE 73.

Federal Government Payments to the Higher Education Sector for RSA in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^r	1993-94 ^r	1994-95 ^r	1995-96 ^r	1996-97 ^r	1997-98 ^r	1998-99 ^r	1999-2000 ^r	2000-2001 ^P	2001-2002 ^P
in millions of dollars										
CIDA	44	40	37	36	36	33	33	34	31	34
CMHC	1	1	1	--	--	--	--	--	--	--
EA	18	...	...	...	...	...	...	...	...	...
FA&IT .....	...	16	16	14	14	18	14	16	13	14
IDRC	0	0	0	0	0	0	0	--	--	--
HC	4	3	3	4	4	3	2	3	4	1
SSHRC	18	20	19	19	18	20	23	21	25	30
Other	4	4	2	2	4	3	1	1	2	3
TOTAL	89	84	78	75	76	77	73	75	75	82

Footnotes:

¹ The Government reorganization transferred the Canadian Parks Services to the Department of Canadian Heritage in 1994-95.

² Figures for Industry Canada, 1993-94 reflect the reorganization of Industry, Science and Technology Canada and program components of Communications, Consumer and Corporate Affairs and Investment Canada.

³ Census year.

Federal Government Personnel

TABLE 74.

Federal Government Personnel Engaged in Scientific Activities, 1992-1993 to 2001-2002^P

Year	Natural Sciences	Social Sciences	Total
		person-years ¹	
All scientific activities²:			
1992-93.....	24,518	9,971	34,489
1993-94.....	24,300	9,845	34,145
1994-95.....	23,516	9,833	33,349
1995-96.....	22,355	9,650	32,005
1996-97.....	21,006	9,588	30,594
1997-98.....	20,313	9,475	29,787
1998-99.....	19,891	9,594	29,485
1999-2000 ^f	20,773	9,938	30,711
2000-2001 ^P	20,890	10,436	31,326
2001-2002 ^P	20,942	10,739	31,681
R&D²:			
1992-93 ^f	16,635	637	17,271
1993-94 ^f	16,600	638	17,237
1994-95 ^f	16,114	618	16,732
1995-96 ^f	14,971	584	15,555
1996-97 ^f	14,260	576	14,836
1997-98 ^f	13,427	526	13,952
1998-99 ^f	13,217	512	13,729
1999-2000 ^f	13,497	583	14,080
2000-2001 ^P	13,580	561	14,141
2001-2002 ^P	13,569	553	14,122

¹ Totals may not add due to rounding.

² Including administration of extramural programs personnel.

TABLE 75.

Federal Government Scientists and Professionals² (S&P) Engaged in Scientific Activities, 1992-1993 to 2001-2002^P

Year	Natural Sciences			Social Sciences			Total
	person-years ¹						
All scientific activities :							
	S&P	AEP	Total	S&P	AEP	Total	Total
1992-93.....	8,676	487	9,163	2,830	119	2,949	12,112
1993-94.....	8,689	519	9,209	2,909	130	3,040	12,248
1994-95.....	9,059	440	9,500	2,952	148	3,099	12,599
1995-96.....	8,611	428	9,039	2,811	131	2,942	11,981
1996-97.....	8,574	363	8,937	2,708	125	2,833	11,770
1997-98.....	8,302	353	8,655	2,772	117	2,889	11,544
1998-99 ^f	8,344	338	8,681	2,926	124	3,050	11,732
1999-2000 ^f	8,652	353	9,005	3,000	137	3,137	12,142
2000-2001 ^P	8,949	375	9,325	3,096	143	3,239	12,564
2000-2001 ^P	8,976	372	9,348	3,192	139	3,331	12,679
R&D :							
1992-93 ^f	5,972	345	6,317	185	75	260	6,577
1993-94 ^f	6,007	378	6,385	179	78	257	6,641
1994-95 ^f	5,984	331	6,315	176	82	258	6,573
1995-96 ^f	5,668	319	5,987	173	69	242	6,229
1996-97 ^f	5,763	269	6,032	216	64	279	6,312
1997-98 ^f	5,338	271	5,609	180	60	240	5,848
1998-99 ^f	5,356	260	5,617	174	62	236	5,852
1999-2000 ^f	5,474	275	5,749	202	67	269	6,018
2000-2001 ^P	5,723	297	6,020	185	68	253	6,273
2001-2002 ^P	5,751	295	6,045	183	62	245	6,290

¹ Totals may not add due to rounding.

² Personnel in the scientific and professional and executive categories.

TABLE 76.

Federal Government Personnel Engaged in Scientific Activities by Category, 1992-1993 to 2001-2002^P

Category	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
person-years										
Executive	752	712	682	652	...	...	...	...	...	...
Scientific and Professional ¹	11,360	11,536	11,917	11,327	11,770	11,544	11,732	12,142	12,564	12,679
Administrative and Foreign Service	4,416	4,510	4,458	4,590	...	...	...	...	...	...
Technical	8,402	8,526	8,196	7,846	7,773	7,653	7,426	7,775	7,849	7,880
Administrative Support ¹	6,369	5,674	5,001	4,786	11,051	10,590	10,327	10,794	10,912	11,122
Operational	2,996	2,992	2,906	2,726	...	...	...	...	...	...
Military	194	195	188	76	...	...	...	...	...	...
TOTAL	34,489	34,145	33,349	32,005	30,594	29,787	29,485	30,711	31,326	31,681

¹ Questions on Personnel resources have been compressed from seven to three principal categories: Scientific & Professional (including Executive); Technical; and, Administrative Support (which includes Administrative and Foreign Service, Operational and Military).

TABLE 77.

Federal Government Personnel Engaged in R&D Activities, by Category, 1992-1993 to 2001-2002^P

Category	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	person-years ¹									
Executive	266	253	232	229	...	...	...	...	...	...
Scientific and professional ²	6,311	6,389	6,341	5,999	6,312	5,848	5,852	6,018	6,273	6,290
Administrative and foreign service	1,513	1,603	1,550	1,560	...	...	...	...	...	...
Technical	4,483	4,523	4,689	4,296	4,098	3,906	3,824	3,870	3,800	3,708
Administrative support ²	2,424	2,272	1,863	1,727	4,426	4,198	4,053	4,192	4,068	4,124
Operational	2,097	2,019	1,883	1,677	...	...	...	...	...	...
Military	177	179	173	67	...	...	...	...	...	...
TOTAL	17,271	17,237	16,732	15,555	14,836	13,952	13,729	14,080	14,141	14,122

¹ Including employees engaged in the administration of extramural research and development.

² Questions on Personnel resources have been compressed from seven to three principal categories: Scientific & Professional (including Executive); Technical; and, Administrative Support (which includes Administrative and Foreign Service, Operational and Military).

TABLE 78.

Federal Government Personnel Engaged in Scientific Activities in the Natural Sciences, by Category, 1992-1993 to 2001-2002^P

Category	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	person-years									
Executive	387	370	342	329	...	...	...	...	...	...
Scientific and professional ¹	8,777	8,839	9,158	8,709	8,937	8,655	8,681	9,005	9,325	9,348
Administrative and foreign service	2,257	2,301	2,217	2,231	...	...	...	...	...	...
Technical	6,751	6,782	6,474	6,131	6,020	5,816	5,553	5,833	5,770	5,713
Administrative support ¹	3,688	3,333	2,707	2,591	6,049	5,842	5,657	5,935	5,795	5,881
Operational	2,493	2,507	2,453	2,308	...	...	...	...	...	...
Military	167	168	166	54	...	...	...	...	...	...
TOTAL	24,518	24,300	23,516	22,355	21,006	20,313	19,891	20,773	20,890	20,942

¹ Questions on Personnel resources have been compressed from seven to three principal categories: Scientific & Professional (including Executive); Technical; and, Administrative Support (which includes Administrative and Foreign Service, Operational and Military).

TABLE 79.

Federal Government Personnel Engaged in Scientific Activities in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	person-years									
AECL	2,762	2,572	2,568	2,560	1,700	1,460	1,195	1,170	1,031	1,030
AGR.....	3,606	3,651	3,555	3,291	2,910	2,519	2,499	2,477	2,521	2,531
CSA	341	355	355	370	392	344	324	377	419	429
EMR	2,638	2,607	...	...	...	...	...	...	...	...
ENV ¹	3,873	3,916	3,493	3,389	2,940	2,887	2,819	2,976	2,966	2,960
F&O	2,198	2,084	2,008	2,231	2,191	1,993	1,928	2,130	2,130	2,261
FOR	957	993	...	...	...	...	...	...	...	...
HC	1,302	1,270	1,347	1,271	1,547	1,834	1,782	1,894	2,078	1,882
NDEF.....	1,765	1,756	1,611	1,195	1,292	1,310	1,409	1,402	1,453	1,533
NRC.....	3,220	3,325	3,307	3,099	3,097	3,202	3,266	3,310	3,063	3,127
NRCAN.....	...	...	3,562	3,265	3,052	2,848	2,698	2,807	2,845	2,699
Other.....	1,856	1,771	1,710	1,684	1,885	1,916	1,971	2,230	2,384	2,490
TOTAL.....	24,518	24,300	23,516	22,355	21,006	20,313	19,891	20,773	20,890	20,942

^f The Government reorganization transferred the Canadian Parks Services to the Department of Canadian Heritage for 1994-95.

TABLE 80.

Federal Government Personnel Engaged in R&D Activities in the Natural Sciences, by Category, 1992-1993 to 2001-2002^P

Category	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	person-years ¹									
Executive	240	229	208	204	...	...	...	...	...	...
Scientific and Professional ²	6,077	6,156	6,107	5,783	6,032	5,609	5,617	5,749	6,020	6,045
Administrative and										
Foreign Service	1,403	1,490	1,448	1,461	...	...	...	...	...	...
Technical	4,408	4,448	4,620	4,231	4,039	3,837	3,761	3,795	3,725	3,636
Administrative Support ²	2,260	2,108	1,697	1,570	4,188	3,981	3,839	3,953	3,835	3,888
Operational	2,086	2,007	1,874	1,668	...	...	...	...	...	...
Military	161	162	160	54	...	...	...	...	...	...
TOTAL	16,635	16,600	16,114	14,971	14,260	13,427	13,217	13,497	13,580	13,569

^f Including employees engaged in the administration of extramural research and development

² Questions on Personnel resources have been compressed from seven to three principal categories: Scientific & Professional (including Executive); Technical; and, Adminincludes Administrative and Foreign Service, Operational and Military).

TABLE 81.

Federal Government Personnel Engaged in R&D Activities in the Natural Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	person-years ¹									
AECL	2,240	2,147	2,024	2,015	1,700	1,460	1,195	1,170	1,031	1,030
AGR.....	3,294	3,327	3,244	3,011	2,820	2,427	2,426	2,410	2,452	2,456
EMR	2,212	2,179	...	...	...	...	...	...	...	...
ENV	772	765	810	972	827	767	732	826	835	833
F&O	1,099	1,042	1,004	902	876	797	771	852	852	904
FOR	812	833	...	...	...	...	...	...	...	...
NDEF.....	1,712	1,705	1,567	1,144	1,136	1,149	1,282	1,275	1,332	1,406
NRC.....	2,796	2,926	2,897	2,692	2,651	2,729	2,777	2,808	2,694	2,750
NRCAN.....	...	...	2,976	2,646	2,536	2,371	2,284	2,306	2,345	2,224
Other.....	1,698	1,676	1,592	1,589	1,714	1,727	1,750	1,850	2,039	1,966
TOTAL.....	16,635	16,600	16,114	14,971	14,260	13,427	13,217	13,497	13,580	13,569

^f Including employees engaged in the administration of extramural research and development.

TABLE 82.

Federal Government Personnel Engaged in Scientific Activities in the Social Sciences, by Category, 1992-1993 to 2001-2002^P

Category	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	person-years									
Executive	366	343	341	324	...	...	...	...	...	...
Scientific and professional ¹	2,583	2,697	2,759	2,618	2,833	2,889	3,051	3,137	3,239	3,331
Administrative and foreign service	2,160	2,209	2,242	2,359	...	...	...	...	...	...
Technical	1,651	1,744	1,723	1,715	1,752	1,837	1,873	1,942	2,079	2,167
Administrative support ¹	2,681	2,341	2,295	2,195	5,003	4,748	4,670	4,859	5,118	5,240
Operational	503	485	453	417	...	...	...	...	...	...
Military	27	27	22	22	...	...	...	...	...	...
TOTAL.....	9,971	9,845	9,833	9,650	9,588	9,475	9,594	9,938	10,436	10,739

^f Questions on Personnel resources have been compressed from seven to three principal categories: Scientific & Professional (including Executive); Technical; and, Administrative Support (which includes Administrative and Foreign Service, Operational and Military).

TABLE 83.

Federal Government Personnel Engaged in Scientific Activities in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or agency	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	person-years									
BC	202	178	165	161	156	142	134	206	219	219
CH .....	...	3	620	558	502	477	...	...	...	...
CMC	525	525	578	510	485	484	463	437	421	425
E&I ²	188	...	...	...	...	...	...	...	...	...
ENV ¹	829	746	30	28	27	14	25	25	27	27
FIN.....	280	283	255	231	220	239	236	267	289	290
HC	97	89	65	63	74	38	24	17	18	12
HRDC .....	...	251	363	338	273	268	337	428	445	448
IDRC.....	145	159	162	147	119	119	126	132	129	117
IND .....	...	210	133	127	146	153	162	174	183	183
ISTC	126	...	...	...	...	...	...	...	...	...
NA	400	420	395	379	343	338	362	380	363	416
NGC.....	260	269	259	239	239	242	248	250	225	225
NL.....	500	504	500	475	449	427	416	431	425	425
PCA ¹.....	...	...	...	...	...	...	450	418	418	418
STCAN.....	4,617	4,489	4,607	4,894	5,004	4,959	5,042	5,096	5,560	5,818
TB.....	273	376	397	371	349	335	305	375	411	377
Other.....	1,530	1,343	1,304	1,129	1,202	1,240	1,264	1,302	1,303	1,339
TOTAL.....	9,971	9,845	9,833	9,650	9,588	9,475	9,594	9,938	10,436	10,739

¹ The government reorganization transferred Canadian Parks Services to the Department of Canadian Heritage for 1994-95. Parks Canada was established as an agency of the federal government by an Act of Parliament in December 1998.

² The government reorganization transferred the Employment program to the Department of Human Resources Development for 1994-95.

TABLE 84.

Federal Government Personnel Engaged in R&D Activities in the Social Sciences, by Category, 1992-1993 to 2001-2002^P

Category	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	person-years ¹									
Executive	25	24	24	25	...	...	...	...	...	...
Scientific and professional ²	237	233	234	217	279	240	236	269	253	245
Administrative and foreign service.....	110	113	103	98	...	...	...	...	...	...
Technical	75	75	69	65	58	69	63	75	76	72
Administrative support ²	164	164	166	157	238	217	213	239	232	236
Operational	11	12	9	9	...	...	...	...	...	...
Military	17	17	13	13	...	...	...	...	...	...
TOTAL.....	637	638	618	584	576	526	512	583	561	553

¹ Including employees engaged in the administration of extramural research and development.

² Questions on Personnel resources have been compressed from seven to three principal categories: Scientific & Professional (including Executive); Technical; and, Administrative Support (which includes Administrative and Foreign Service, Operational and Military).

TABLE 85.

Federal Government Personnel Engaged in R&D Activities in the Social Sciences, by Department or Agency, 1992-1993 to 2001-2002^P

Department or Agency	1992-93 ^f	1993-94 ^f	1994-95 ^f	1995-96 ^f	1996-97 ^f	1997-98 ^f	1998-99 ^f	1999-2000 ^f	2000-2001 ^P	2001-2002 ^P
	person-years ¹									
BC	13	25	23	22	24	40	38	64	59	59
CMC	99	99	109	97	58	58	56	53	52	52
CMHC.....	27	28	28	22	20	20	17	19	22	22
NDEF.....	36	37	35	35	100	20	15	15	15	15
NGC.....	51	54	51	47	47	48	47	47	42	42
STCAN.....	133	118	118	127	125	144	141	158	136	136
Other.....	278	277	254	234	202	196	198	227	235	227
TOTAL.....	637	638	618	584	576	526	512	583	561	553

¹ Including employees engaged in the administration of extramural research and development.

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