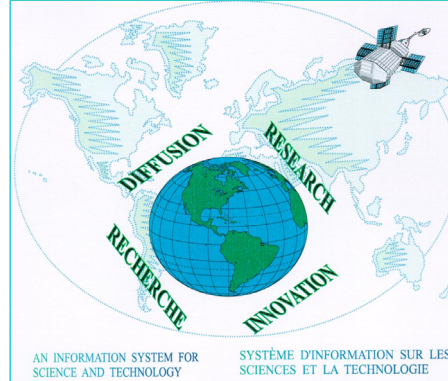


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Science, Innovation and Electronic Information Division

Federal government expenditures and personnel in the natural and social sciences, 1993-1994 to 2002-2003



**Federal government expenditures
and personnel in the
natural and social sciences
1993-1994 to 2002-2003**

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Introduction

This document presents historical tables displaying Federal Government expenditures and personnel applied to activities in science and technology (S&T). S&T can be divided into research and development (R&D) and related scientific activities (RSA) expenditures. Expenditures and personnel for each fiscal year to 2000-2001 are actual while the data for 2001-2002 and 2002-2003 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 bulletin "Science Statistics", Vol. 26 No. 5, Catalogue 88-001-XIB and the annual publication "Federal Scientific Activities 2002-2003", Catalogue No. 88-204-XIE.

Highlights

- The Federal Government planned to spend \$7.7 billion on scientific and technological activities for the estimate year 2002-2003, an increase of 3.0% over forecasted expenditures on S&T for 2001-2002.
- The central activity of S&T is scientific research and experimental development. In 2002-2003, the Federal Government is expected to spend \$5.1 billion on R&D. This includes both intramural performance and extramural funding of R&D.
- Activities in the natural sciences and engineering (NSE) will receive the bulk of Federal Government funding (78% in 2002-2003), most of which (79%) is for research and development.
- Most of the monies (80%) for the social sciences and humanities (SSH) will be spent on related scientific activities such as data collection, information services and special services and studies. Statistics Canada alone accounted for 37% of these expenditures.
- In 2002-2003, 32,335 person-years were involved in federal S&T activities, a 1.1% decrease from 2001-2002. Fifty-three percent, or 17,048 person-years, were engaged in RSA activities.

This report was prepared by Bev Watier under the direction of Lloyd Lizotte, Subject Matter Manager, Governments Sector, Science and Innovation Survey Section, Science, Innovation and Electronic Information Division.

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The following symbols are used in this Statistics Canada report :

SYMBOLS

- ... Figures not appropriate or not applicable
- 0 Amount too small to be expressed or nil
- 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 Canadian Nuclear Safety Commission, 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

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

Departments and Agencies – Concluded

NSERC	Natural Sciences and Engineering Research Council
NTA	National Transportation Agency of Canada
PC	Privy Council Office
PCA	Parks Canada Agency
PSC	Public Service Commission
PSSRB	Public Service Staff Relations Board
PW	Public Works
PW&GS	Public Works and Government Services Canada
RCMP	Royal Canadian Mounted Police
RIE	Regional Industrial Expansion
SC	Science Council of Canada
SECS	Secretary of State
SGEN	Solicitor General
SS	Supply and Services
SSHRC	Social Sciences and Humanities Research Council
STCAN	Statistics Canada
SWC	Status of Women Canada
TB	Treasury Board
TPT	Transport
TSBC	Transportation Safety Board of Canada
URC	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, 1993-1994 to 2002-2003^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
1993-94	58	20	77	4	19	23	62	39	5,951
1994-95	59	19	78	4	18	22	63	37	5,827
1995-96	57	20	77	4	19	23	61	39	5,693
1996-97	56	19	75	4	21	25	60	40	5,694
1997-98	58	19	77	4	20	24	62	39	5,509
1998-99	58	19	77	4	19	23	62	38	5,802
1999-2000	58	19	78	4	18	22	62	37	6,252
2000-2001 ^r	58	19	76	4	20	24	62	38	6,707
2001-2002 ^P	59	17	76	4	20	24	63	37	7,435
2002-2003 ^P	62	16	78	4	18	22	66	34	7,658

TABLE 2.

Federal Government Expenditures on S&T, by Science Type and by Performer¹, 1993-1994 to 2002-2003^P

Sector of performance	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
Total sciences:										
Intramural.....	3,457	3,399	3,427	3,575	3,351	3,455	3,658	4,043	4,391	4,235
Canadian business enterprises.....	954	930	885	801	927	952	926	847	934	886
Higher education.....	973	983	933	894	860	989	1,173	1,320	1,551	1,951
Canadian non-profit institutions.....	116	127	103	112	110	122	181	154	237	242
Provincial and municipal governments...	43	44	47	33	12	14	18	37	32	35
Other Canadian performers.....	95	47	39	32	27	36	66	56	57	82
Foreign.....	313	297	259	247	222	233	229	250	232	228
TOTAL.....	5,951	5,827	5,693	5,694	5,509	5,802	6,252	6,707	7,435	7,658
Natural sciences:										
Intramural.....	2,570	2,519	2,486	2,507	2,417	2,459	2,648	2,872	3,020	3,050
Canadian business enterprises.....	915	885	846	767	892	924	896	816	901	855
Higher education.....	804	818	773	737	702	836	1,002	1,139	1,332	1,716
Canadian non-profit institutions.....	56	67	59	66	57	56	128	98	177	175
Provincial and municipal governments...	38	40	43	30	9	11	15	22	17	20
Other Canadian performers.....	54	31	26	26	19	31	42	33	35	46
Foreign.....	162	166	144	140	126	134	134	144	145	136
TOTAL.....	4,599	4,526	4,377	4,273	4,222	4,450	4,866	5,124	5,627	5,999
Social sciences:										
Intramural.....	887	880	941	1,068	934	996	1,010	1,171	1,371	1,184
Canadian business enterprises.....	39	45	40	34	35	29	30	32	33	31
Higher education.....	169	165	159	157	158	153	171	181	220	234
Canadian non-profit institutions.....	60	59	44	46	53	65	52	56	60	67
Provincial and municipal governments...	5	4	4	3	3	3	1	15	15	15
Other Canadian performers.....	42	16	13	6	8	6	26	23	22	36
Foreign.....	150	132	115	107	96	99	95	105	87	92
TOTAL.....	1,352	1,301	1,316	1,421	1,287	1,352	1,386	1,582	1,808	1,659

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, 1993-1994 to 2002-2003^P

Sector of performance	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
Total sciences:										
Intramural.....	1,757	1,754	1,727	1,792	1,720	1,743	1,859	2,080	2,216	2,227
Canadian business enterprises.....	773	756	665	573	721	749	713	624	692	659
Higher education.....	814	835	797	761	725	842	1,010	1,170	1,391	1,782
Canadian non-profit institutions	66	74	59	75	71	82	130	76	185	199
Provincial and municipal governments...	35	33	38	27	6	9	13	34	29	32
Other Canadian performers	55	29	27	23	16	29	46	35	39	53
Foreign.....	178	177	151	141	120	124	118	131	128	119
TOTAL.....	3,677	3,657	3,465	3,391	3,379	3,578	3,890	4,150	4,680	5,071
Natural sciences:										
Intramural.....	1,694	1,694	1,669	1,724	1,651	1,667	1,774	1,995	2,128	2,135
Canadian business enterprises.....	770	750	662	570	720	747	711	622	691	658
Higher education.....	729	749	713	680	644	762	913	1,063	1,254	1,633
Canadian non-profit institutions	33	43	34	52	47	43	109	48	154	159
Provincial and municipal governments...	32	30	37	25	4	8	13	19	14	17
Other Canadian performers	49	25	23	21	15	27	37	27	30	42
Foreign.....	127	131	114	110	94	97	95	104	106	96
TOTAL.....	3,434	3,422	3,252	3,181	3,174	3,350	3,653	3,879	4,376	4,740
Social sciences:										
Intramural.....	63	60	58	68	69	76	85	85	88	92
Canadian business enterprises.....	2	5	3	3	2	3	2	2	1	1
Higher education.....	85	86	85	81	80	80	97	107	137	148
Canadian non-profit institutions	33	30	24	24	24	39	21	28	32	40
Provincial and municipal governments...	3	3	1	2	2	1	1	15	15	15
Other Canadian performers	6	4	4	2	1	2	9	8	9	11
Foreign.....	52	46	38	31	27	27	23	27	22	23
TOTAL.....	244	235	213	210	205	228	237	271	304	331

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, 1993-1994 to 2002-2003^P

Year	Federal Government	Canadian business enterprise	Higher Education	Canadian non-profit institutions	Other ¹ Canadian	Foreign	Total
in millions of dollars							
Total sciences:							
1993-94	1,562	773	814	66	90	178	3,482
1994-95	1,548	756	835	74	62	177	3,452
1995-96	1,565	665	797	59	65	151	3,302
1996-97	1,651	573	761	75	49	141	3,250
1997-98	1,567	721	725	71	22	120	3,225
1998-99	1,606	749	842	82	38	124	3,441
1999-2000	1,715	713	1,010	130	59	118	3,745
2000-2001 ^r	1,811	624	1,170	76	69	131	3,881
2001-2002 ^P	1,906	692	1,391	185	68	128	4,370
2002-2003 ^P	1,909	659	1,782	199	85	119	4,752
Natural sciences:							
1993-94	1,499	770	729	33	81	127	3,240
1994-95	1,489	750	749	43	55	131	3,217
1995-96	1,507	662	713	34	60	114	3,090
1996-97	1,583	570	680	52	46	110	3,041
1997-98	1,498	720	644	47	19	94	3,021
1998-99	1,531	747	762	43	35	97	3,214
1999-2000	1,630	711	913	109	50	95	3,509
2000-2001 ^r	1,727	622	1,063	48	46	104	3,611
2001-2002 ^P	1,819	691	1,254	154	44	106	4,067
2002-2003 ^P	1,818	658	1,633	159	59	96	4,423
Social sciences:							
1993-94	63	2	85	33	9	52	244
1994-95	60	5	86	30	7	46	235
1995-96	58	3	85	24	5	38	213
1996-97	67	3	81	24	3	31	209
1997-98	68	2	80	24	3	27	204
1998-99	75	3	80	39	3	27	227
1999-2000	85	2	97	21	9	23	237
2000-2001 ^r	84	2	107	28	23	27	270
2001-2002 ^P	86	1	137	32	24	23	303
2002-2003 ^P	91	1	148	40	26	23	329

^r Other Canadian includes provincial and municipal governments

TABLE 5.

Federal Government Expenditures on Related Scientific Activities (RSA), by Science Type and by Performer¹, 1993-1994 to 2002-2003^P

Sector of performance	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
Total sciences:										
Intramural	1,700	1,646	1,699	1,783	1,631	1,712	1,799	1,963	2,175	2,007
Canadian business enterprises	181	174	221	228	206	203	212	223	242	227
Higher education.....	159	147	135	133	135	147	164	150	161	169
Canadian non-profit institutions.....	51	53	45	37	40	40	51	77	52	43
Provincial and municipal governments.....	9	11	9	6	6	5	5	3	3	2
Other Canadian performers.....	40	17	12	11	11	9	20	21	18	29
Foreign.....	134	121	107	105	101	109	111	119	104	109
TOTAL	2,274	2,170	2,228	2,303	2,130	2,224	2,362	2,557	2,755	2,587
Natural sciences:										
Intramural	876	825	816	783	766	792	874	877	891	915
Canadian business enterprises	145	135	184	197	172	177	185	193	211	198
Higher education.....	75	69	60	58	58	74	89	76	78	83
Canadian non-profit institutions.....	23	24	25	14	11	14	19	50	23	15
Provincial and municipal governments.....	5	10	6	5	4	3	3	2	3	2
Other Canadian performers.....	5	6	4	5	4	4	4	6	5	5
Foreign.....	36	35	30	30	33	37	39	41	39	41
TOTAL	1,164	1,104	1,125	1,091	1,048	1,100	1,213	1,245	1,251	1,259
Social sciences:										
Intramural	824	820	883	1,000	866	920	925	1,086	1,284	1,092
Canadian business enterprises	37	40	37	31	33	26	28	30	31	29
Higher education.....	84	78	75	76	77	73	75	74	83	86
Canadian non-profit institutions.....	27	29	20	23	29	26	31	28	28	28
Provincial and municipal governments.....	3	1	3	1	2	2	2	1	0	0
Other Canadian performers.....	35	12	8	5	7	5	16	15	13	25
Foreign.....	98	86	77	75	69	72	72	78	65	68
TOTAL	1,109	1,066	1,103	1,211	1,082	1,124	1,149	1,312	1,504	1,328

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

TABLE 6.

Federal Government Expenditures on S&T, by Science Type, 1993-1994 to 2002-2003^P

Year	R&D Expenditure			RSA Expenditures			Total all activities
	Current	Capital	Total	Current	Capital	Total	
in millions of dollars							
Total sciences:							
1993-94	3,483	195	3,677	2,109	164	2,274	5,951
1994-95	3,452	205	3,657	1,999	171	2,170	5,827
1995-96	3,302	163	3,465	2,081	147	2,228	5,693
1996-97	3,250	141	3,391	2,164	139	2,303	5,694
1997-98	3,225	154	3,379	2,040	91	2,130	5,509
1998-99	3,441	137	3,578	2,135	89	2,224	5,802
1999-2000	3,745	144	3,890	2,286	76	2,362	6,252
2000-2001 ^f	3,881	269	4,150	2,455	101	2,556	6,707
2001-2002 ^P	4,370	310	4,681	2,684	70	2,754	7,435
2002-2003 ^P	4,752	319	5,071	2,494	93	2,587	7,658
Natural sciences:							
1993-94	3,240	194	3,434	1,043	121	1,164	4,599
1994-95	3,217	205	3,422	993	111	1,104	4,526
1995-96	3,090	162	3,252	1,054	71	1,125	4,377
1996-97	3,041	140	3,181	1,029	62	1,091	4,273
1997-98	3,021	153	3,174	1,000	48	1,048	4,222
1998-99	3,214	136	3,350	1,058	41	1,100	4,450
1999-2000	3,509	144	3,653	1,177	37	1,213	4,866
2000-2001 ^f	3,611	268	3,879	1,199	46	1,245	5,124
2001-2002 ^P	4,067	309	4,376	1,218	33	1,251	5,627
2002-2003 ^P	4,423	317	4,740	1,228	31	1,259	5,999
Social sciences:							
1993-94	243	0	243	1,066	43	1,109	1,352
1994-95	235	0	235	1,007	59	1,066	1,301
1995-96	213	0	213	1,027	76	1,103	1,316
1996-97	209	1	210	1,134	77	1,211	1,421
1997-98	204	1	205	1,039	43	1,082	1,287
1998-99	227	1	228	1,076	48	1,124	1,352
1999-2000	237	0	237	1,109	40	1,149	1,386
2000-2001 ^f	270	1	271	1,255	56	1,311	1,582
2001-2002 ^P	303	1	304	1,466	37	1,503	1,808
2002-2003 ^P	329	1	330	1,267	61	1,328	1,659

All Sciences

TABLE 7.

Federal Government Expenditures on S&T, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
R&D:										
Current expenditures	3,319	3,287	3,140	3,086	3,062	3,241	3,559	3,698	4,153	4,527
Administration of extramural programs ..	163	164	162	164	163	200	186	183	217	225
Capital expenditures	195	205	163	141	154	137	144	269	310	319
Sub-total R&D.....	3,677	3,657	3,465	3,391	3,379	3,578	3,890	4,150	4,680	5,071
RSA:										
Data collection	969	882	923	1,048	1,004	1,059	1,146	1,277	1,497	1,247
Information services.....	527	543	539	482	425	432	446	438	464	484
Special services and studies	406	369	447	463	436	452	485	531	502	536
Education support.....	176	170	139	139	142	157	168	163	173	176
Administration of extramural programs ..	32	36	34	33	32	35	40	46	49	51
Capital expenditures	164	171	147	139	91	89	77	102	70	93
Sub-total RSA.....	2,274	2,170	2,228	2,303	2,130	2,224	2,362	2,557	2,755	2,587
TOTAL	5,951	5,827	5,693	5,694	5,509	5,802	6,252	6,707	7,435	7,658

TABLE 8.

Federal Government Expenditures on S&T, by Department or Agency, 1993-1994 to 2002-2003^P

Department or Agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AECL	161	169	168	240	174	135	132	136	136	149
AGR.....	366	356	358	368	359	351	387	363	355	344
BC	39	36	35	39	41	45	41	42	48	56
CFI.....	...	...	...	...	2	31	118	188	239	482
CFIA .....	...	...	...	28	30	30	32	37	40	44
CH ²	8	84	82	82	78	1	1	1	11	1
CIDA.....	333	308	334	339	303	314	335	358	359	335
CIHR.....	...	...	...	...	...	...	317	392	516	592
CMC	46	56	53	56	55	54	55	58	65	87
CSA	387	320	299	253	230	343	305	310	348	337
EMR.....	352	...	...	...	...	...	...	...	...	...
ENV	663	549	529	456	453	427	538	479	602	543
F&O	239	237	244	246	204	281	287	367	319	317
FA&IT	52	60	58	59	58	49	54	45	48	52
FOR.....	115	...	...	...	...	...	...	...	...	...
HC	191	180	201	214	210	204	236	229	199	216
HRDC	62	66	60	60	65	74	60	69	69	74
IDRC.....	115	102	88	88	78	85	82	84	76	79
IND ³	374	388	324	291	407	343	301	336	406	383
MRC	259	265	252	242	238	277	...	...	...	...
NA	43	62	65	46	36	35	35	41	50	56
NDEF.....	256	252	233	253	311	304	335	315	354	331
NL.....	58	49	49	43	42	40	42	48	51	51
NRC.....	503	505	481	479	524	554	597	655	719	738
NRCan ⁴.....	...	464	475	430	396	386	421	437	432	419
NSERC	496	494	471	453	436	499	549	568	618	681
PCA ².....	...	...	...	...	...	82	68	90	91	91
SSHRC	102	103	101	93	96	104	127	145	175	208
STCAN.....	347	353	406	535 ⁵	400	437	461	576	728 ⁵	511
TB.....	37	36	35	32	35	37	44	47	59	37
Other.....	347	333	292	269	248	280	292	291	322	444
TOTAL.....	5,951	5,827	5,693	5,694	5,509	5,802	6,252	6,707	7,435	7,658

See footnotes at end of section.

TABLE 9.

Federal Government Intramural Expenditures on S&T, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
R&D:										
Current expenditures.....	1,399	1,384	1,403	1,486	1,403	1,406	1,528	1,628	1,689	1,684
Administration of extramural programs	163	164	162	164	163	200	186	183	217	225
Capital expenditures.....	195	205	163	141	154	137	144	269	310	319
Sub-total R&D.....	1,757	1,754	1,727	1,792	1,720	1,743	1,859	2,080	2,216	2,228
RSA:										
Data collection.....	860	787	840	972	926	979	1,063	1,198	1,414	1,171
Information services	433	460	457	408	364	370	380	371	393	416
Special services and studies	202	184	213	221	207	223	231	238	241	268
Education support	9	8	9	11	11	15	9	8	8	8
Administration of extramural programs	32	36	34	33	32	35	40	46	49	51
Capital expenditures.....	164	171	147	139	91	89	77	102	70	93
Sub-total RSA.....	1,700	1,646	1,699	1,783	1,631	1,712	1,799	1,963	2,175	2,007
TOTAL.....	3,457	3,399	3,427	3,575	3,351	3,455	3,658	4,043	4,391	4,235

TABLE 10.

Federal Government Intramural Expenditures on S&T, by Department or Agency, 1993-1994 to 2002-2003^P

Department or Agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AECL	142	146	148	219	154	114	123	128	126	129
AGR.....	348	335	343	362	354	348	366	347	335	327
BC	39	36	35	39	41	45	41	42	48	56
CFIA .....	...	...	...	28	30	30	32	37	40	43
CH ²	0	78	76	78	72	...	...	...	...	...
CIDA	10	12	13	15	14	15	17	16	19	19
CMC	46	56	53	56	55	54	55	58	65	87
CMN	22	25	29	33	25	23	23	26	28	29
CSA	86	61	72	64	55	86	55	174	224	216
CSTM	18	24	24	25	24	23	24	26	26	29
EMR.....	297	...	...	...	...	...	...	...	...	...
ENV	615	484	464	399	404	369	419	427	487	482
F&O	226	229	223	238	196	271	277	327	308	311
FA&IT	10	10	11	11	11	10	11	10	11	11
FIN.....	24	22	20	19	20	22	26	25	27	28
FOR	88	...	...	...	...	...	...	...	...	...
HC	144	137	149	163	170	174	209	193	167	183
HRDC	16	16	29	32	28	24	25	29	32	32
IDRC.....	31	30	28	39	41	45	48	43	39	41
IND ³	131	149	137	103	99	108	100	90	90	92
NA.....	41	60	63	44	34	33	33	38	46	52
NDEF.....	149	150	131	153	164	163	193	175	189	182
NGC.....	30	34	37	33	46	49	42	44	45	46
NL.....	58	49	48	43	42	40	42	48	51	51
NRC.....	389	377	357	350	394	403	456	506	569	605
NRCan ⁴.....	...	382	402	370	347	334	343	374	370	359
PCA ².....	...	...	...	...	...	80	65	87	88	88
STCAN.....	347	353	406	534 ⁵	400	437	461	575	727 ⁵	511
TB.....	36	35	35	32	34	37	44	47	59	37
TPT.....	11	10	5	6	7	8	6	7	7	7
Other.....	103	99	89	87	90	110	122	144	168	182
TOTAL.....	3,457	3,399	3,427	3,575	3,351	3,455	3,658	4,043	4,391	4,235

See footnotes at end of section.

TABLE 11.

Federal Government Payments to Canadian Business Enterprises for S&T, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
R&D	773	756	665	573	721	749	713	624	692	659
RSA:										
Data collection.....	46	44	47	45	46	47	43	45	48	48
Information services	7	12	14	15	11	11	13	15	16	16
Special services and studies	125	116	156	166	146	141	154	160	174	159
Education support	4	3	3	3	3	3	3	3	3	4
TOTAL	954	930	885	801	927	952	926	847	934	886

TABLE 12.

Federal Government Payments to Canadian Business Enterprises for S&T, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
ACOA	15	14	11	5	7	11	8	15	6	14
AECL	14	20	15	17	14	16	7	5	6	16
CED (Qué) ¹	23	20	15	9	9	5	5	4	6	8
CIDA.....	114	105	161	162	141	144	158	165	181	164
CSA	266	217	185	142	143	223	215	102	91	85
EMR.....	34	...	...	...	...	...	...	...	...	...
ENV	19	27	29	32	26	34	31	29	35	36
F&O	9	5	19	5	5	8	1	1	1	1
FOR.....	10	...	...	...	...	...	...	...	...	...
IND ³	216	223	174	177	299	223	191	237	303	280
NDEF.....	90	88	88	85	120	118	122	120	138	128
NRC.....	65	73	76	82	82	99	89	89	96	83
NRCan ⁴.....	...	41	31	30	27	34	53	35	34	33
TPT.....	14	18	13	9	9	9	8	9	9	9
WEDO.....	18	15	14	8	5	2	11	6	4	4
Other.....	47	64	54	38	40	26	27	30	24	25
TOTAL	954	930	885	801	927	952	926	847	934	886

See footnotes at end of section.

TABLE 13.

Federal Government Payments to the Higher Education Sector for S&T, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
R&D	814	835	797	761	725	842	1,010	1,170	1,391	1,782
RSA:										
Data collection.....	11	10	11	10	10	11	10	8	7	5
Information services	9	9	10	11	10	11	12	10	11	12
Special services and studies	3	4	4	4	3	2	5	2	3	2
Education support	135	125	110	109	113	123	136	130	140	150
TOTAL	973	983	933	894	860	989	1,173	1,320	1,551	1,951

TABLE 14.

Federal Government Payments to the Higher Education Sector for S&T, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AGR.....	3	5	4	1	1	1	1	1	1	1
CED (Qué) ¹	3	10	5	8	3	5	0	0	0	0
CFI.....	...	...	...	...	...	27	114	183	231	474
CIHR.....	...	...	...	...	...	...	289	350	453	525
CIDA.....	70	64	62	63	58	57	60	53	61	56
EMR.....	6	...	...	...	...	...	...	...	...	...
ENV	9	16	15	8	10	10	10	10	10	7
FA&IT	16	16	14	14	18	14	16	13	13	14
HC	17	21	25	26	18	15	14	8	7	7
IND ³	14	5	4	1	0	0	0	0	0	0
MRC	241	246	233	221	217	250	...	...	...	...
NDEF.....	6	6	6	8	7	5	4	4	6	4
NRC.....	32	35	35	33	36	39	39	44	40	41
NRCan ⁴.....	...	7	5	3	2	2	4	7	7	7
NSERC	443	443	421	413	392	447	491	504	547	608
SSHRC	81	80	81	75	77	82	99	114	138	166
Other.....	32	29	23	20	21	35	32	29	37	41
TOTAL	973	983	933	894	860	989	1,173	1,320	1,551	1,951

See footnotes at end of section.

TABLE 15.

Federal Government Expenditures on R&D, by Department or Agency, 1993-1994 to 2002-2003^P

Department or Agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AECL	155	163	163	240	174	135	132	136	136	149
AGR.....	328	323	328	350	340	335	370	354	347	336
BC	9	8	8	10	11	11	13	12	13	15
CED (Qué) ¹	30	35	24	28	22	23	12	10	17	22
CFI.....	...	...	...	...	2	31	118	188	239	482
CFIA .....	...	...	...	12	13	11	10	13	14	16
CH ²	0	1	2	1	1	0	0	0	10	0
CIHR.....	...	...	...	...	...	...	304	384	505	580
CIDA.....	61	62	51	52	48	49	50	57	53	50
CMC	4	5	5	5	5	5	5	5	5	5
CSA	379	314	291	245	224	337	300	298	338	323
EMR.....	271	...	...	...	...	...	...	...	...	...
ENV	135	174	163	135	127	116	196	144	214	157
F&O.....	114	114	99	95	78	109	110	130	123	122
FOR.....	106	...	...	...	...	...	...	...	...	...
HC	53	58	63	74	65	54	55	64	59	60
HRDC	35	35	22	18	17	31	15	20	22	27
IDRC.....	103	89	78	76	64	67	71	76	69	72
IND ³	317	322	268	230	345	274	239	288	357	333
MRC	249	257	244	234	229	266	...	...	...	...
NDEF.....	251	248	229	223	264	263	294	274	313	289
NRC.....	441	449	419	429	470	499	530	591	648	671
NRCan ⁴.....	...	374	403	372	350	345	376	388	383	372
NSERC	439	440	425	410	393	443	481	500	551	606
SSHRC	68	69	70	64	65	68	92	105	127	151
WEDO.....	24	13	14	12	7	13	24	17	14	14
Other.....	105	104	96	76	65	93	93	96	123	219
TOTAL.....	3,677	3,657	3,465	3,391	3,379	3,578	3,890	4,150	4,680	5,071

See footnotes at end of section.

TABLE 16.

Federal Government Current Expenditures on R&D, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AECL.....	151	155	156	240	173	133	131	136	132	148
AGR.....	310	304	307	315	307	302	344	320	315	305
CED (Qué) ¹	30	35	24	28	22	23	12	10	17	22
CFI.....	...	...	...	...	2	31	118	188	239	482
CIHR.....	...	...	...	...	...	...	304	383	504	579
CIDA.....	61	62	51	52	48	49	50	57	53	50
CSA.....	348	308	286	244	223	336	298	194	202	195
EMR.....	248	...	...	...	...	...	...	...	...	...
ENV.....	126	153	149	125	119	109	187	132	192	139
F&O.....	99	101	93	92	76	108	109	129	122	121
FOR.....	98	...	...	...	...	...	...	...	...	...
HC.....	51	56	62	73	64	52	54	54	59	59
HRDC.....	35	35	22	18	17	31	15	20	22	27
IDRC.....	103	89	78	76	64	67	71	76	69	72
IND ³	284	281	225	224	342	272	238	286	356	332
MRC.....	249	256	244	234	229	265	...	...	...	...
NDEF.....	237	229	217	210	248	251	259	264	302	279
NRC.....	407	403	393	390	417	453	486	533	578	576
NRCan ⁴.....	...	348	377	343	318	315	353	357	353	343
NSERC.....	439	439	424	409	393	443	481	500	551	606
SSHRC.....	68	69	70	64	65	68	92	104	126	150
Other.....	138	129	124	113	98	133	143	138	178	267
TOTAL.....	3,482	3,452	3,302	3,250	3,225	3,441	3,745	3,881	4,370	4,752

See footnotes at end of section..

TABLE 17.

Federal Government Expenditures on Intramural R&D, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
In-house R&D	1,293	1,273	1,275	1,361	1,283	1,284	1,401	1,493	1,553	1,554
R&D contracts	8	20	28	35	37	37	37	30	30	29
Supporting contracts	82	79	88	84	76	78	82	96	96	91
Research fellowships	16	12	12	6	7	7	9	9	10	10
Administration of extramural programs	163	164	162	164	164	200	186	183	217	225
Capital expenditures	195	205	163	141	154	137	144	269	310	319
TOTAL.....	1,757	1,754	1,727	1,792	1,720	1,743	1,859	2,080	2,216	2,227

TABLE 18.

Federal Government Expenditures on Intramural R&D, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AECL	136	140	143	219	154	114	123	128	126	129
AGR.....	313	306	317	346	338	332	351	339	327	319
CSA	79	54	63	57	49	81	51	166	219	205
EMR.....	223	...	...	...	...	...	...	...	...	...
ENV	120	146	131	113	106	93	115	125	142	137
F&O.....	110	111	89	92	75	105	108	128	121	120
FOR.....	80	...	...	...	...	...	...	...	...	...
HC	34	29	33	41	40	39	43	41	38	36
IND ³	77	85	82	43	38	39	39	42	41	42
NDEF.....	145	146	127	136	140	142	173	154	168	162
NRC.....	326	321	294	300	340	349	389	442	498	537
NRCan ⁴.....	...	305	342	320	309	303	307	334	330	321
Other.....	114	111	106	125	131	146	160	181	206	219
TOTAL.....	1,757	1,754	1,727	1,792	1,720	1,743	1,859	2,080	2,216	2,227

See footnotes at end of section.

TABLE 19.

Federal Government Payments to Canadian Business Enterprises for R&D, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
Contracts	409	367	341	267	295	381	362	227	240	234
Grants and contributions	361	382	321	299	422	363	340	393	446	419
Research fellowships	3	6	3	7	4	5	12	4	6	6
TOTAL.....	773	756	665	573	721	749	713	624	692	659

TABLE 20.

Federal Government Payments to Canadian Business Enterprises for R&D, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AECL	14	20	15	17	14	16	7	5	6	16
AGR.....	7	6	3	2	0	0	0	0	0	0
CED (Qué) ¹	23	19	15	9	8	4	5	3	6	8
CSA	266	217	185	142	143	223	214	100	89	83
EMR.....	27	...	...	...	...	...	...	...	...	...
ENV	4	9	13	10	8	10	8	8	11	10
FOR.....	10	...	...	...	...	...	...	...	...	...
IND ³	214	223	173	177	299	223	191	237	303	280
NDEF.....	90	88	88	73	105	107	110	108	127	117
NRC.....	65	73	76	82	82	99	89	89	96	83
NRCan ⁴.....	...	35	27	23	20	27	47	28	28	27
NSERC	3	18	17	11	15	10	10	12	4	5
TPT.....	11	13	12	8	7	7	7	7	8	8
Other.....	39	35	41	19	20	23	25	27	14	22
TOTAL.....	773	756	665	573	721	749	713	624	692	659

See footnotes at end of section.

TABLE 21.

Federal Government Contracts to Canadian Business Enterprises for R&D, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
AECL	14	20	15	17	14	16	7	5	6	16
CSA	266	217	185	142	143	222	213	88	78	73
EMR.....	17	...	...	...	...	...	...	...	...	...
ENV	4	8	12	9	8	10	8	8	11	10
F&O.....	2	2	8	1	1	1	0	0	0	0
NDEF.....	81	88	88	73	105	107	110	108	127	117
NRCan ⁴.....	...	15	12	10	11	12	10	6	6	6
TPT.....	11	12	11	8	7	7	7	7	8	8
Other.....	14	5	10	7	6	6	7	5	4	4
TOTAL.....	409	367	341	267	295	381	362	227	240	234

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
ACOA	15	14	11	5	7	11	8	15	6	14
CED (Qué) ¹	23	19	15	9	8	4	5	3	6	8
EMR.....	11	...	...	...	...	...	...	...	...	...
FOR.....	9	...	...	...	...	...	...	...	...	...
IND ³	208	223	173	177	299	223	191	237	303	280
NRC.....	65	73	76	81	82	99	88	89	96	83
NRCan ⁴.....	...	20	16	13	10	15	37	22	22	21
NSERC	3	18	17	11	15	10	10	12	4	5
WEDO.....	13	11	12	6	4	2	11	6	4	4
Other.....	17	10	4	4	1	4	2	13	11	10
TOTAL.....	364	388	324	306	426	368	352	397	452	425

See footnotes at end of section.

TABLE 23.

Federal Government Payments to the Higher Education Sector for R&D, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
Contracts	33	29	30	26	25	23	21	22	23	21
Grants and contributions	736	761	724	702	671	789	958	1,118	1,334	1,725
Research fellowships	45	45	43	32	29	30	31	30	34	36
TOTAL.....	814	835	797	761	725	842	1,010	1,170	1,391	1,782

TABLE 24.

Federal Government Payments to the Higher Education Sector for R&D, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
AGR.....	3	5	3	1	1	1	1	1	1	1
CED (Qué) ¹	3	10	5	8	3	5	0	0	0	0
CFI.....	...	...	...	...	...	27	115	183	231	474
CIHR.....	...	...	...	...	...	...	279	343	444	515
CIDA.....	22	21	20	20	19	18	18	17	20	18
CSA.....	5	6	7	5	7	7	7	8	7	7
EMR.....	6	...	...	...	...	...	...	...	...	...
ENV.....	9	15	14	7	10	9	9	8	8	5
HC.....	9	15	16	17	12	7	6	5	5	6
MRC.....	233	239	226	215	210	241	...	...	...	...
NDEF.....	6	6	6	8	7	5	4	4	6	4
NRC.....	32	35	35	33	36	39	39	44	40	41
NRCan ⁴.....	...	7	5	3	2	2	3	7	7	7
NSERC.....	394	398	383	377	355	398	431	447	492	547
SSHRC.....	61	61	63	57	57	59	77	88	107	129
Other.....	31	17	14	10	6	24	21	15	23	28
TOTAL.....	814	835	797	761	725	842	1,010	1,170	1,391	1,782

See footnotes at end of section.

TABLE 25.

Federal Government Contracts to the Higher Education Sector for R&D, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
AECL.....	1	1	2	1	1	1	0	0	0	0
AGR.....	1	0	0	0	0	0	0	0	0	0
CIDA.....	10	9	9	9	8	8	8	8	9	8
CSA.....	5	6	6	5	7	7	6	8	7	7
EMR.....	4	...	...	...	...	...	...	...	...	...
ENV.....	1	1	1	1	1	2	2	2	2	2
NDEF.....	6	6	6	5	5	3	2	3	4	3
NRC.....	1	0	0	0	0	0	0	0	0	0
NRCan ⁴.....	...	4	2	1	1	1	1	0	0	0
Other.....	4	2	4	4	2	1	2	1	1	1
TOTAL.....	33	29	30	26	25	23	21	22	23	21

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
AGR.....	2	4	3	1	1	1	1	1	1	1
CFI.....	...	...	...	...	...	27	114	183	231	474
CIHR.....	...	...	...	...	...	...	279	343	444	515
CIDA.....	12	11	11	11	10	10	10	9	11	10
EMR.....	1	...	...	...	...	...	...	...	...	...
ENV.....	8	14	13	6	8	7	7	6	6	3
HC.....	9	15	14	16	11	6	6	4	5	5
IDRC.....	5	4	3	4	2	3	3	3	3	3
MRC.....	233	239	226	215	210	241	...	...	...	...
NRC.....	31	35	35	33	36	39	39	44	40	41
NRCan ⁴.....	...	4	3	2	1	1	2	6	7	6
NSERC.....	394	398	383	377	355	398	431	447	492	547
SSHRC.....	61	61	63	57	57	59	77	88	107	129
Other.....	25	21	13	13	9	27	20	14	21	27
TOTAL.....	781	806	767	735	700	819	989	1,148	1,368	1,761

See footnotes at end of section.

TABLE 27.

Federal Government Expenditures on RSA, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AGR.....	38	33	31	18	19	17	16	9	9	8
BC	30	28	27	29	30	34	29	30	35	41
CIDA.....	272	247	283	287	255	265	285	302	306	285
CMC	41	51	49	51	51	50	50	53	60	82
CMN	18	22	25	33	24	21	21	23	24	25
CSTM	18	24	24	25	24	23	24	26	26	29
EMR.....	81	...	...	...	...	...	...	...	...	...
ENV	528	375	366	321	326	312	342	335	388	387
F&O.....	125	123	145	151	126	172	178	237	196	195
FA&IT	52	60	58	59	58	49	54	45	48	52
FIN.....	24	22	20	19	20	22	26	25	27	28
FOR.....	8	...	...	...	...	...	...	...	...	...
HC	137	123	137	139	145	150	180	164	140	156
HRDC	28	31	38	43	48	43	46	48	47	47
IDRC.....	12	13	9	12	14	17	11	8	7	7
IND ³	57	65	56	61	62	69	62	48	49	50
NA	43	62	65	46	36	35	35	41	50	56
NGC.....	24	27	30	26	37	39	34	35	36	37
NL.....	58	49	49	43	42	40	42	48	51	51
NRC.....	63	57	62	50	55	55	66	64	71	68
NRCan ⁴.....	...	91	72	58	45	41	45	49	48	47
NSERC	58	54	46	43	43	56	68	68	68	75
SSHRC	34	34	31	29	31	36	35	40	48	57
STCAN.....	337	343	397	526 ⁵	389	426	448	563	712 ⁵	495
TB.....	36	35	35	32	34	37	44	47	59	37
Other.....	152	201	173	202	216	215	221	249	250	272
TOTAL.....	2,274	2,170	2,228	2,303	2,130	2,224	2,362	2,557	2,755	2,587

See footnotes at end of section.

TABLE 28.

Federal Government Expenditures on Intramural RSA, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
AGR.....	35	29	26	16	16	15	15	8	8	8
EMR.....	75	...	...	...	...	...	...	...	...	...
ENV.....	496	338	333	286	298	276	305	301	345	345
F&O.....	116	117	133	146	121	166	169	199	187	191
HC.....	110	108	116	122	130	135	166	151	129	147
IDRC.....	10	9	8	11	13	17	10	7	6	7
IND ³	53	64	55	61	62	69	62	48	49	50
NA.....	41	60	63	44	34	33	33	38	46	52
NL.....	58	49	48	43	42	40	42	48	51	51
NRC.....	62	56	62	50	55	55	66	64	71	68
NRCan ⁴.....	...	77	60	50	38	31	37	40	40	39
STCAN.....	337	343	396	525 ⁵	389	425	447	562	711 ⁵	494
TB.....	36	35	35	32	34	37	44	47	59	37
Other.....	271	361	364	397	399	413	403	450	473	518
TOTAL.....	1,700	1,646	1,699	1,783	1,631	1,712	1,799	1,963	2,175	2,007

See footnotes at end of section.

TABLE 29.

Federal Government Payments to Canadian Business Enterprises for RSA, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
CIDA.....	113	104	160	162	140	143	157	165	181	164
EMR.....	7	...	...	...	...	...	...	...	...	...
ENV.....	14	18	16	22	17	24	22	21	24	26
F&O.....	7	3	11	5	4	5	1	1	1	0
HC.....	3	4	3	2	2	1	1	3	3	3
HRDC.....	8	7	4	2	3	3	4	4	3	3
IND ³	2	0	0	0	0	0	0	0	0	0
NDEF.....	0	0	0	12	15	11	11	11	11	11
NRCan ⁴.....	...	6	4	6	7	7	6	7	6	6
TPT.....	3	5	1	1	2	1	1	1	1	1
Other.....	24	27	22	16	16	8	9	10	12	13
TOTAL.....	181	174	221	228	206	203	212	223	242	227

See footnotes at end of section.

TABLE 30.

Federal Government Payments to the Higher Education Sector for RSA, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
CIHR.....	...	...	...	...	...	...	10	7	9	10
CIDA.....	48	43	42	43	40	39	41	36	41	38
FA&IT.....	16	16	14	14	18	14	16	13	13	14
HC.....	8	6	9	9	6	8	8	4	2	1
MRC.....	7	7	7	6	7	9	...	...	...	...
NSERC.....	49	46	38	36	37	48	60	57	55	61
SSHRC.....	20	19	19	18	20	23	21	26	31	38
Other.....	11	10	6	7	7	6	8	7	10	7
TOTAL.....	159	147	135	133	135	147	164	150	161	169

Footnotes:

¹ Formerly 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 Resources.

⁵ Census year.

Natural Sciences

TABLE 31.

Federal Government Expenditures on S&T in the Natural Sciences, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
R&D:										
Current expenditures.....	3,097	3,072	2,945	2,899	2,879	3,039	3,350	3,457	3,878	4,227
Administration of extramural programs ..	143	145	144	142	143	176	158	154	189	196
Capital expenditures.....	194	205	162	140	152	136	144	268	309	317
Sub-total R&D.....	3,434	3,422	3,252	3,181	3,174	3,350	3,653	3,879	4,376	4,740
RSA:										
Scientific data collection	632	562	575	540	565	595	670	692	728	722
Information services	145	173	180	170	143	146	154	110	115	117
Special services and studies	168	165	216	237	210	221	240	284	260	264
Education support	80	72	65	65	63	78	92	89	91	99
Administration of extramural programs ..	19	21	18	17	18	18	21	24	24	26
Capital expenditures.....	121	111	71	62	48	41	36	46	33	31
Sub-total RSA.....	1,164	1,104	1,125	1,091	1,048	1,100	1,213	1,245	1,251	1,259
TOTAL.....	4,599	4,526	4,377	4,273	4,222	4,450	4,866	5,124	5,627	5,999

TABLE 32.

Federal Government Expenditures on S&T in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
ACOA.....	35	41	34	21	7	29	27	27	16	53
AECL.....	161	169	168	240	174	135	132	136	136	149
AGR.....	354	347	348	359	350	344	380	356	348	337
CED(Qué) ¹	30	35	24	28	22	23	12	10	17	22
CFIA.....	...	...	...	28	30	30	32	37	40	44
CFI.....	...	...	...	...	2	31	119	188	239	482
CIHR.....	...	...	...	...	...	...	317	392	516	592
CIDA.....	186	178	218	222	194	200	216	231	239	223
CMN.....	22	26	29	35	26	23	23	26	28	29
CSA.....	387	320	299	253	230	343	305	310	348	337
EMR.....	352	...	...	...	...	...	...	...	...	...
ENV.....	574	544	525	452	449	423	534	475	597	539
F&O.....	233	231	238	237	194	271	279	358	308	305
FOR.....	115	...	...	...	...	...	...	...	...	...
HC.....	144	154	170	187	185	189	220	194	167	179
IDRC.....	41	35	30	27	22	19	23	29	27	29
IND ²	357	376	309	277	392	326	284	317	386	362
MRC.....	259	265	252	242	238	277	...	...	...	...
NDEF.....	251	249	230	240	294	288	319	299	338	314
NRC.....	503	505	481	479	524	554	597	655	719	738
NRCan ³.....	...	464	475	430	396	386	421	437	432	419
NSERC.....	496	494	471	453	436	499	549	568	618	681
TPT.....	29	29	21	16	19	19	17	17	18	19
WEDO.....	30	18	16	14	9	13	24	17	14	14
Other.....	40	46	39	33	29	28	36	45	76	132
TOTAL.....	4,599	4,526	4,377	4,273	4,222	4,450	4,866	5,124	5,627	5,999

See footnotes at end of section.

TABLE 33.

Federal Government Intramural Expenditures on S&T in the Natural Sciences, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
R&D:										
Current expenditures.....	1,356	1,343	1,363	1,441	1,356	1,356	1,471	1,573	1,630	1,622
Administration of extramural programs	143	145	144	142	143	176	158	154	189	196
Capital expenditures.....	194	205	162	140	152	136	144	268	309	317
Sub-total R&D.....	1,694	1,694	1,669	1,724	1,651	1,667	1,774	1,995	2,128	2,135
RSA:										
Scientific data collection	563	500	512	482	506	525	599	626	654	654
Information services	116	136	140	133	120	123	127	85	89	91
Special services and studies	52	54	70	81	68	78	84	88	83	105
Education support	5	3	5	7	6	7	7	8	8	8
Administration of extramural programs	18	21	18	17	18	18	21	24	24	26
Capital expenditures.....	121	111	71	62	48	41	36	46	33	31
Sub-total RSA.....	876	825	817	783	766	792	874	877	891	915
TOTAL.....	2,570	2,519	2,486	2,507	2,417	2,459	2,648	2,872	3,020	3,050

TABLE 34.

Federal Government Intramural Expenditures on S&T in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AECL	142	146	148	219	154	114	123	128	126	129
AGR.....	338	330	337	355	348	341	360	340	328	320
CFIA .....	...	...	...	28	30	30	32	37	40	43
CMN	22	25	29	33	25	23	23	26	28	29
CSA	86	61	72	64	55	86	55	174	224	216
EMR.....	297	...	...	...	...	...	...	...	...	...
ENV	527	479	460	395	401	365	415	423	482	477
F&O	221	223	217	229	186	262	268	317	296	299
FOR.....	88	...	...	...	...	...	...	...	...	...
HC	127	131	143	158	165	172	207	189	163	176
IND ²	115	138	123	90	85	91	84	71	70	71
NDEF	145	147	128	142	151	151	181	163	176	170
NRC.....	389	377	357	350	394	403	456	506	569	605
NRCan ³.....	...	382	402	370	347	334	343	374	370	359
TPT.....	11	10	5	6	7	8	6	7	7	7
Other.....	62	70	65	68	69	79	95	117	141	149
TOTAL.....	2,570	2,519	2,486	2,507	2,417	2,459	2,648	2,872	3,020	3,050

See footnotes at end of section.

TABLE 35.

Federal Government Payments to Canadian Business Enterprises for S&T in the Natural Sciences, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
R&D	770	750	662	570	720	747	711	623	690	658
RSA:										
Scientific data collection	36	29	39	37	38	44	40	42	45	45
Information services	5	9	10	14	8	8	9	10	11	11
Special services and studies	102	95	133	144	124	123	133	139	152	138
Education support	2	2	2	2	2	2	2	2	3	3
TOTAL	915	885	846	767	892	924	896	816	901	855

TABLE 36.

Federal Government Payments to Canadian Business Enterprises for S&T in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
ACOA	15	14	11	5	7	11	9	15	6	14
AECL	14	20	15	17	14	16	7	5	6	16
CED (Qué) ¹	23	20	15	9	8	4	5	3	6	8
CIDA	98	90	142	143	124	127	139	147	161	146
CSA	266	217	185	142	143	223	214	102	91	85
EMR.....	34	...	...	...	...	...	...	...	...	...
ENV	18	27	29	32	26	34	31	29	35	36
F&O	8	5	19	5	5	7	1	1	1	1
FOR	10	...	...	...	...	...	...	...	...	...
IND ²	216	223	174	177	299	223	192	237	303	280
NDEF	90	88	88	85	118	117	120	118	137	127
NRC	65	73	76	82	82	99	89	89	96	83
NRCan ³.....	...	41	31	30	27	34	53	35	34	33
TPT	14	18	13	9	9	8	7	8	9	9
WEDO.....	18	15	14	8	5	2	11	6	4	4
Other.....	26	34	34	23	25	19	18	21	12	13
TOTAL	915	885	846	767	892	924	896	816	901	855

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, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
R&D	729	749	713	680	644	762	913	1,063	1,254	1,633
RSA:										
Scientific data collection	8	7	8	7	6	9	8	5	5	4
Information services	2	2	2	2	1	2	4	2	2	2
Special services and studies	1	2	2	1	1	1	3	0	1	0
Education support	63	58	49	48	49	63	74	69	70	77
TOTAL	804	818	773	737	702	836	1,002	1,139	1,332	1,716

TABLE 38.

Federal Government Payments to the Higher Education Sector for S&T in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AGR.....	3	5	3	1	1	1	1	1	1	1
CED (Qué) ¹	3	10	5	8	3	5	0	0	0	0
CFI.....	...	...	...	...	0	27	115	183	231	474
CIHR.....	...	...	...	...	...	...	289	350	453	525
CIDA.....	20	18	17	18	16	16	17	15	17	16
CSA.....	5	6	7	5	7	7	7	9	8	7
EMR.....	6	...	...	...	...	...	...	...	...	...
ENV.....	9	16	15	8	10	10	10	10	10	7
FOR.....	2	...	...	...	...	...	...	...	...	...
HC.....	7	9	13	13	6	7	6	1	1	0
IND ²	14	5	4	1	0	0	0	0	0	0
MRC.....	241	246	233	221	217	250	...	...	...	...
NDEF.....	6	6	6	6	5	3	3	3	4	3
NRC.....	32	35	35	33	36	39	39	44	40	41
NRCan ³.....	...	7	5	3	2	2	4	7	7	7
NSERC.....	443	443	421	413	392	447	491	504	547	608
Other.....	13	12	9	7	7	22	20	12	13	27
TOTAL	804	818	773	737	702	836	1,002	1,139	1,332	1,716

See footnotes at end of section.

TABLE 39.

Federal Government Expenditures on R&D in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
ACOA	35	41	34	21	7	29	27	27	16	53
AECL	155	163	163	240	174	135	132	136	136	149
AGR	328	323	328	350	340	334	370	354	347	336
CED (Qué) ¹	30	35	24	28	22	23	12	10	17	22
CFI .....	...	...	...	...	2	31	118	188	239	482
CIHR .....	...	...	...	...	...	...	304	384	505	580
CIDA	45	45	36	37	35	34	35	41	38	37
CSA	379	314	291	245	224	337	300	298	338	323
EMR	271	...	...	...	...	...	...	...	...	...
ENV	132	173	163	134	126	115	196	144	213	156
F&O	114	114	99	95	78	109	110	130	123	122
FOR	106	...	...	...	...	...	...	...	...	...
HC	37	42	49	60	51	45	47	41	36	35
IDRC	41	35	30	27	21	18	21	28	26	27
IND ²	317	322	268	230	345	274	239	287	355	331
MRC	249	257	244	234	229	266	...	...	...	...
NDEF	248	246	227	215	259	259	290	270	309	285
NRC	441	449	419	429	470	499	530	591	648	671
NRCan ³ .....	...	374	403	372	351	345	376	388	383	372
NSERC	439	440	425	410	393	443	481	500	551	606
TPT	22	21	19	15	15	16	14	15	16	16
WEDO	24	13	14	12	7	13	24	17	14	14
Other	21	15	16	27	25	25	27	30	66	123
TOTAL	3,434	3,422	3,252	3,181	3,174	3,350	3,653	3,879	4,376	4,740

See footnotes at end of section.

TABLE 40.

Federal Government Current Expenditures on R&D in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
ACOA	35	41	34	21	7	29	27	27	16	53
AECL	151	155	156	240	173	133	131	136	132	148
AGR	310	302	307	315	307	302	344	320	315	305
CED (Qué) ¹	30	35	24	28	22	23	12	10	17	22
CFI .....	...	...	...	...	2	31	118	188	239	482
CIHR .....	...	...	...	...	...	...	304	383	504	579
CIDA	45	45	37	37	35	34	35	41	38	37
CSA	348	308	286	244	223	336	298	194	202	195
EMR	248	...	...	...	...	...	...	...	...	...
ENV	123	152	149	125	118	109	187	131	191	138
F&O	99	101	93	92	76	108	108	129	122	121
FOR	98	...	...	...	...	...	...	...	...	...
HC	34	40	47	58	50	42	45	30	36	34
IDRC	41	35	30	27	21	18	21	28	26	27
IND ²	284	281	225	224	342	272	238	284	354	330
MRC	249	256	244	234	229	265	...	...	...	...
NDEF	234	227	215	202	243	247	255	260	299	275
NRC	407	403	393	390	417	453	486	533	578	576
NRCan ³ .....	...	348	377	343	318	315	353	357	353	343
NSERC	439	439	424	409	393	443	481	500	551	606
TPT	20	20	19	15	15	16	14	14	15	16
WEDO	24	13	14	12	7	13	23	17	14	14
Other	21	16	16	25	23	25	29	29	65	122
TOTAL	3,240	3,217	3,090	3,041	3,021	3,214	3,509	3,611	4,067	4,423

See footnotes at end of section.

TABLE 41.

Federal Government Expenditures on Intramural R&D in the Natural Sciences, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
In-house R&D	1,252	1,234	1,237	1,317	1,237	1,235	1,346	1,440	1,497	1,495
R&D contracts.....	6	19	27	35	37	35	37	28	28	27
Supporting contracts	82	78	87	84	75	78	81	96	95	90
Research fellowships	16	12	12	6	7	7	9	9	10	10
Administration of extramural programs	143	145	144	142	143	176	158	154	189	196
Capital expenditures.....	194	205	162	140	152	136	144	268	309	317
TOTAL.....	1,694	1,694	1,669	1,724	1,651	1,667	1,774	1,995	2,128	2,135

TABLE 42.

Federal Government Expenditures on Intramural R&D in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AECL	136	140	143	219	154	114	123	128	126	129
AGR.....	313	306	317	346	338	332	351	339	327	319
CSA	79	54	63	57	49	81	51	166	219	205
EMR.....	223	...	...	...	...	...	...	...	...	...
ENV	117	145	131	113	106	93	114	125	141	137
F&O	110	111	89	92	75	105	108	128	121	120
FOR.....	80	...	...	...	...	...	...	...	...	...
HC	32	28	32	40	38	38	42	40	36	35
IND ²	77	85	82	43	38	39	39	41	39	40
NDEF.....	142	144	125	129	137	140	171	153	166	160
NRC.....	326	321	294	300	340	349	389	442	498	537
NRCan ³.....	...	305	342	320	309	303	307	334	330	321
TPT.....	8	7	5	5	6	7	6	6	6	6
Other.....	51	48	46	60	61	66	73	93	119	126
TOTAL.....	1,694	1,694	1,669	1,724	1,651	1,667	1,774	1,995	2,128	2,135

See footnotes at end of section.

TABLE 43.

Federal Government Payments to Canadian Business Enterprises for R&D in the Natural Sciences, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
Contracts	407	365	339	265	294	379	360	225	239	233
Grants and contributions	360	379	320	298	422	363	340	393	446	419
Research fellowships	3	6	3	7	4	5	12	4	6	6
TOTAL.....	770	750	662	570	720	747	711	622	691	658

TABLE 44

Federal Government Payments to Canadian Business Enterprises for R&D in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
ACOA	15	14	11	5	7	11	8	15	6	14
AECL	14	20	15	17	14	16	7	5	6	16
AGR.....	7	5	3	2	0	0	0	0	0	0
CED (Qué) ¹	23	19	15	9	8	4	5	3	6	8
CSA	266	217	185	142	143	223	214	100	89	83
EMR.....	27	...	...	...	...	...	...	...	...	...
ENV	4	9	13	10	8	10	8	8	11	10
FOR.....	10	...	...	...	...	...	...	...	...	...
IND ²	214	223	173	177	299	223	191	237	303	280
NDEF.....	90	88	88	73	105	107	110	108	127	117
NRC.....	65	73	76	82	82	99	89	89	96	83
NRCan ³.....	...	35	27	23	20	27	47	28	28	27
TPT.....	11	13	12	8	7	7	7	7	8	8
WEDO.....	13	11	12	6	4	2	11	6	4	4
Other.....	11	23	32	16	23	18	14	16	7	8
TOTAL.....	770	750	662	570	720	747	711	622	691	658

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
AECL	14	20	15	17	14	16	7	5	6	16
CSA	266	217	185	142	143	222	213	88	78	73
EMR.....	17	...	...	...	...	...	...	...	...	...
ENV	4	8	12	9	8	10	8	8	11	10
F&O	2	2	8	1	1	1	0	0	0	0
NDEF	81	87	88	73	105	107	110	108	127	117
NRCan ³ .....	...	15	12	10	11	12	10	6	6	6
TPT.....	11	12	11	8	7	7	7	7	8	8
Other.....	12	4	8	5	5	4	5	3	3	3
TOTAL.....	407	365	339	265	294	379	360	225	239	233

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
ACOA	15	14	11	5	7	11	8	15	6	14
CED (Qué)	23	19	15	9	8	4	5	3	6	8
CSA	0	0	0	0	0	1	1	12	11	10
EMR.....	11	...	...	...	...	...	...	...	...	...
FOR	9	...	...	...	...	...	...	...	...	...
IND ²	208	223	173	177	299	223	191	237	303	280
NRC.....	65	73	76	81	82	99	88	89	96	83
NRCan ³ .....	...	20	16	13	10	15	37	22	22	21
NSERC	3	18	17	11	14	10	10	12	4	5
WEDO.....	13	11	12	6	4	2	11	6	4	4
Other.....	16	7	3	3	2	3	1	1	0	0
TOTAL.....	363	385	323	305	426	368	352	397	452	425

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, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
Contracts	23	19	21	16	16	15	13	14	14	13
Grants and contributions	670	695	659	641	608	725	873	1,022	1,207	1,585
Research fellowships	36	35	33	23	21	22	28	27	33	35
TOTAL.....	729	749	713	680	644	762	913	1,063	1,254	1,633

TABLE 48.

Federal Government Payments to the Higher Education Sector for R&D in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
AGR.....	3	5	3	1	1	1	1	1	1	1
CFI.....	...	...	...	...	...	27	114	183	231	474
CIHR.....	...	...	...	...	...	...	279	343	444	515
CIDA.....	12	11	11	11	10	10	10	9	10	9
EMR.....	6	...	...	...	...	...	...	...	...	...
ENV.....	9	15	14	7	10	9	9	8	8	5
HC.....	3	6	8	8	3	1	1	0	0	0
IND ²	14	5	4	1	0	0	0	0	0	0
MRC.....	233	239	226	215	210	241	...	...	...	...
NDEF.....	6	6	6	6	5	3	3	3	4	3
NRC.....	32	35	35	33	36	39	39	44	40	41
NRCan ³.....	...	7	5	3	2	2	3	7	7	7
NSERC.....	394	398	383	377	355	398	431	447	492	547
Other.....	17	22	18	18	12	31	23	18	17	31
TOTAL.....	729	749	713	680	644	762	913	1,063	1,254	1,633

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AECL.....	1	1	2	1	1	1	0	0	0	0
AGR.....	1	0	0	0	0	0	0	0	0	0
CSA.....	5	6	6	5	7	7	6	8	7	7
EMR.....	4	...	...	...	...	...	...	...	...	...
ENV.....	1	1	1	1	1	2	2	2	2	2
NDEF.....	6	6	6	5	5	3	2	3	4	3
NRC.....	1	0	0	0	0	0	0	0	0	0
NRCan ³.....	...	4	2	1	1	1	1	0	0	0
TPT.....	2	1	1	1	0	0	0	0	0	1
Other.....	2	0	3	2	1	1	2	1	1	0
TOTAL.....	23	19	21	16	16	15	13	14	14	13

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AGR.....	2	4	3	0	1	1	1	1	1	1
CFI.....	...	...	...	...	...	27	114	183	231	474
CIHR.....	...	...	...	...	...	...	279	343	444	515
CIDA.....	12	11	11	11	10	10	10	9	10	9
EMR.....	1	...	...	...	...	...	...	...	...	...
ENV.....	8	14	13	6	8	7	7	6	6	3
HC.....	3	6	7	8	3	1	1	0	0	0
IDRC.....	3	3	1	2	1	1	1	1	1	1
IND ²	13	5	4	1	0	0	0	0	0	0
MRC.....	233	239	226	215	210	241	...	....	...	...
NRC.....	31	35	35	33	36	39	39	44	40	41
NRCan ³.....	...	4	3	2	1	1	2	6	7	6
NSERC.....	394	398	383	377	355	398	431	447	492	547
Other.....	6	11	6	9	4	21	16	9	8	23
TOTAL.....	706	730	692	664	629	747	901	1,049	1,240	1,620

See footnotes at end of section.

TABLE 51.

Federal Government Expenditures on RSA in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AECL.....	6	6	6	0	0	0	0	0	0	0
AGR.....	25	26	21	9	10	9	10	2	1	1
CFIA.....	...	...	...	15	17	19	22	24	26	28
CIHR.....	...	...	...	...	...	...	12	8	10	12
CIDA.....	141	133	181	185	160	165	182	190	201	186
CMN.....	18	22	25	33	24	21	21	23	24	25
EMR.....	81	...	...	...	...	...	...	...	...	...
ENV.....	442	370	362	317	323	308	338	331	384	382
F&O.....	119	116	139	142	116	162	170	228	184	183
FOR.....	8	...	...	...	...	...	...	...	...	...
HC.....	107	112	121	127	133	144	173	153	130	144
IDRC.....	0	0	0	0	0	2	2	1	1	1
IND ²	40	54	42	47	47	52	45	30	31	31
MRC.....	10	9	8	8	9	11	...	...	...	...
NRC.....	63	57	62	50	55	55	66	64	71	68
NRCan ³.....	...	91	72	58	45	41	45	49	48	47
NSERC.....	58	54	46	43	43	56	68	68	68	75
Other.....	46	54	40	57	66	55	59	74	72	76
TOTAL.....	1,164	1,104	1,125	1,091	1,048	1,100	1,213	1,245	1,251	1,259

See footnotes at end of section.

TABLE 52.

Federal Government Expenditures on Intramural RSA in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
AECL	6	6	5	0	0	0	0	0	0	0
AGR.....	24	25	20	9	10	9	8	1	1	1
CFIA .....	...	...	...	15	17	19	22	24	26	28
CMN	18	22	24	31	23	21	21	23	24	25
EMR.....	75	...	...	...	...	...	...	...	...	...
ENV	410	333	329	282	295	272	301	298	340	340
F&O	111	111	128	137	111	157	161	190	176	180
FOR.....	8	...	...	...	...	...	...	...	...	...
HC	95	104	111	118	127	135	165	150	127	142
IDRC.....	0	0	0	0	0	1	2	1	1	1
IND ²	37	53	41	47	47	52	45	30	31	31
NRC.....	62	56	62	50	55	55	66	64	71	68
NRCan ³.....	...	77	60	50	38	31	37	40	40	38
Other.....	30	38	36	44	43	40	46	56	54	61
TOTAL.....	876	825	816	783	766	792	874	877	891	915

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
CIDA	97	89	141	143	124	126	139	147	161	145
EMR.....	7	...	...	...	...	...	...	...	...	...
ENV	14	18	16	22	17	24	22	21	24	26
F&O	6	3	10	4	4	4	1	1	1	0
HC	2	2	1	1	0	0	1	1	1	1
NDEF.....	0	0	0	12	13	10	10	10	10	10
NRCan ³.....	...	6	4	6	7	7	6	7	6	6
TPT.....	3	5	1	1	1	1	1	1	1	1
Other.....	16	12	11	8	6	5	5	5	7	9
TOTAL.....	145	135	184	197	172	177	185	193	211	198

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ¹	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
CIHR.....	...	...	...	...	...	...	10	7	9	10
CIDA.....	8	7	6	7	6	6	7	6	6	6
HC.....	5	3	5	5	3	6	5	1	1	0
IAND.....	3	5	3	2	1	0	1	1	1	1
MRC.....	7	7	7	6	7	9	...	...	...	...
NSERC.....	49	46	38	36	37	48	60	57	55	61
Other.....	3	1	1	2	4	5	6	4	6	5
TOTAL.....	75	69	60	58	58	74	89	76	78	83

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, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
R&D:										
Current expenditures.....	223	216	195	188	184	203	209	241	275	300
Administration of extramural programs	20	19	18	22	20	24	28	29	28	29
Capital expenditures.....	1	1	1	0	1	1	1	1	1	2
Sub-total R&D.....	244	235	213	210	205	228	237	271	304	331
RSA:										
General purpose data collection	337	320	348	508	439	464	476	584	769	526
Information services	382	369	359	311	282	286	292	329	349	367
Special services and studies	237	204	231	226	226	230	245	246	242	262
Education support	97	98	74	74	79	79	77	75	83	87
Administration of extramural programs	13	15	15	15	14	17	19	22	24	25
Capital expenditures.....	43	60	76	77	43	48	40	56	37	61
Sub-total RSA.....	1,109	1,066	1,103	1,211	1,082	1,124	1,149	1,312	1,504	1,328
TOTAL.....	1,352	1,301	1,316	1,421	1,287	1,352	1,386	1,582	1,808	1,659

TABLE 56.

Federal Government Expenditures on S&T in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AGR.....	12	9	10	9	9	7	7	7	7	7
BC	39	36	35	39	41	45	41	42	48	56
CH ¹	8	75	75	75	70	1	1	1	11	1
CIDA.....	147	130	116	117	109	114	119	127	120	112
CMC.....	46	56	53	56	55	54	55	58	65	87
CMHC.....	18	19	15	13	14	17	22	24	18	20
CSTM.....	18	24	24	25	24	23	24	26	26	29
ENV.....	89	5	4	4	3	4	4	4	5	5
FA&IT.....	52	60	58	59	58	49	54	45	48	52
FIN.....	24	22	20	19	20	22	26	25	27	28
HC.....	47	26	31	27	25	15	17	35	33	37
HRDC.....	62	66	60	60	65	74	60	69	69	74
IDRC.....	74	67	58	61	57	65	59	55	49	50
IND ²	17	12	15	14	15	17	17	19	20	20
NA.....	43	62	65	46	36	35	35	41	50	56
NGC.....	30	34	37	33	46	49	42	44	45	46
NL.....	58	49	49	43	42	40	42	48	51	51
PCA ¹.....	...	...	...	...	...	74	54	71	72	72
PCO.....	28	4	2	0	0	0	5	5	5	17
SSHRC.....	102	103	101	93	96	104	127	145	175	208
STCAN.....	347	353	406	535 ³	400	437	461	576	728 ³	512
TB.....	37	36	35	32	35	37	44	47	59	37
Other.....	54	53	47	61	67	69	70	68	77	82
TOTAL.....	1,352	1,301	1,316	1,421	1,287	1,352	1,386	1,582	1,808	1,659

See footnotes at end of section.

TABLE 57.

Federal Government Intramural Expenditures on S&T in the Social Sciences, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
R&D:										
Current expenditures.....	43	40	40	45	48	51	57	55	59	62
Administration of extramural programs	20	19	18	22	20	24	28	29	28	29
Capital expenditures.....	1	1	1	1	1	1	1	1	1	1
Sub-total R&D.....	63	60	58	68	69	76	85	85	88	92
RSA:										
General purpose data collection	297	287	328	490	421	454	464	572	760	518
Information services	317	323	317	275	244	247	253	286	305	325
Special services and studies	150	131	143	140	139	145	147	150	158	163
Education support	5	5	4	4	5	8	2	0	0	0
Administration of extramural programs	13	15	15	15	14	17	19	22	24	25
Capital expenditures.....	43	59	76	77	43	48	40	56	37	61
Sub-total RSA.....	824	820	883	1,000	866	920	925	1,086	1,284	1,092
TOTAL.....	887	880	941	1,068	934	996	1,010	1,171	1,371	1,184

TABLE 58.

Federal Government Intramural Expenditures on S&T in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
BC	39	36	35	39	41	45	41	42	48	56
CH ¹	0	70	70	72	65	...	...	...	...	...
CMC	46	56	53	56	55	54	55	58	65	87
CMHC	13	13	10	9	10	13	17	20	14	16
CSTM	18	24	24	25	24	23	24	26	26	29
ENV	88	5	4	4	3	4	4	4	5	5
FA&IT	10	10	11	11	11	10	11	10	11	11
FIN	24	22	20	19	20	22	26	25	27	28
HC	17	6	6	5	4	2	2	4	4	7
HRDC	16	16	29	32	28	23	25	29	32	32
IDRC	23	23	21	30	32	39	37	30	26	27
IND ²	16	11	14	14	15	17	17	19	20	20
NA	41	60	63	44	34	33	33	38	46	52
NGC	30	34	37	33	46	49	42	44	45	46
NL	58	49	48	43	42	39	42	48	51	51
PCA ¹ .....	...	...	...	...	...	74	53	70	71	71
STCAN	347	353	406	534 ³	400	437	461	575	727 ³	511
TB	36	35	35	32	34	37	44	47	59	37
Other	65	57	55	66	70	75	76	82	94	98
TOTAL	887	880	941	1,068	934	996	1,010	1,171	1,371	1,184

See footnotes at end of section.

TABLE 59.

Federal Government Payments to Canadian Business Enterprises for S&T in the Social Sciences, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
R&D	2	5	3	3	2	3	2	2	1	1
RSA:										
General purpose data collection	10	15	8	8	8	3	3	3	3	3
Information services	2	3	4	1	3	3	4	5	5	5
Special services and studies	24	21	23	22	21	19	21	21	23	21
Education support	1	1	1	1	1	1	1	1	1	1
TOTAL	39	45	40	34	35	29	30	32	33	31

TABLE 60.

Federal Government Payments to Canadian Business Enterprises for S&T in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AGR.....	1	3	2	1	1	0	0	0	0	0
CBC.....	5	6	5	5	5	...	...	...	...	...
CIDA.....	16	15	19	19	17	17	18	18	20	18
CMHC.....	3	3	2	2	2	2	3	2	2	2
FA&IT	0	6	1	1	0	0	0	0	0	0
HC	1	2	3	2	2	1	1	3	2	2
HRDC	8	9	5	3	3	3	4	4	3	3
JUS.....	1	0	1	1	1	0	0	0	0	0
Other.....	4	1	2	0	4	6	4	5	6	6
TOTAL	39	45	40	34	35	29	30	32	33	31

TABLE 61.

Federal Government Payments to the Higher Education Sector for S&T in the Social Sciences, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
R&D	85	86	85	81	80	80	97	107	137	148
RSA:										
General purpose data collection	3	3	4	3	4	2	2	3	1	1
Information services	7	7	8	9	8	9	9	8	10	10
Special services and studies	2	2	2	3	2	2	2	2	2	2
Education support	72	67	61	61	64	61	62	61	70	73
TOTAL	169	165	159	157	158	153	171	181	220	234

TABLE 62.

Federal Government Payments to the Higher Education Sector for S&T in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
CIDA.....	50	46	45	45	42	41	42	39	44	40
FA&IT	16	16	14	14	18	14	16	13	13	14
HC	10	12	12	13	12	7	8	7	6	7
HRDC	5	5	2	3	4	4	3	3	3	2
IDRC.....	2	1	1	2	1	2	2	2	2	2
SSHRC	81	80	81	75	77	82	98	114	138	166
Other.....	5	5	4	5	4	3	2	3	14	3
TOTAL	169	165	159	157	158	153	171	181	220	234

TABLE 63.

Federal Government Expenditures on R&D in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
BC	9	8	8	10	11	11	12	12	13	15
CIDA	16	17	15	15	14	15	15	16	15	14
CMHC	5	5	4	4	4	5	5	6	5	6
HC	16	16	14	14	14	9	9	23	22	25
HRDC	35	35	22	18	17	31	15	20	22	27
IDRC	62	54	49	49	43	50	50	48	43	44
SECS	0	...	...	...	...	...	...	...	...	...
SGEN	5	5	5	4	4	4	4	4	4	5
SSHRC	68	69	70	64	65	68	92	105	127	151
STCAN	10	10	10	9 ³	11	12	13	13	16 ³	17
Other	18	16	16	23	22	23	22	24	37	27
TOTAL	244	235	213	210	205	228	237	271	304	331

See footnotes at end of section.

TABLE 64.

Federal Government Expenditures on Intramural R&D in the Social Sciences, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
In-house R&D	41	39	38	44	46	49	55	52	56	59
R&D contracts	1	1	1	1	1	1	1	2	2	2
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	19	18	22	20	24	28	29	28	29
Capital expenditures	1	1	1	0	1	1	1	1	1	1
TOTAL	63	60	58	68	69	76	85	85	88	92

TABLE 65.

Federal Government Expenditures on Intramural R&D in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
BC	9	8	8	10	11	11	13	12	13	15
CMC	4	5	5	5	5	5	5	5	5	5
CMHC.....	3	3	2	2	2	3	4	4	4	4
HC	2	1	1	1	2	1	1	2	1	2
IDRC.....	14	14	13	19	19	23	28	23	21	22
NDEF.....	3	2	2	6	3	2	2	2	2	2
NGC.....	6	7	7	7	9	10	8	9	9	9
SGEN	3	3	3	2	2	2	2	2	2	3
SSHRC	5	5	5	5	5	6	7	9	10	10
STCAN.....	10	10	10	9 ³	11	12	13	13	16 ³	17
Other.....	4	2	2	2	0	1	2	4	5	3
TOTAL.....	63	60	58	68	69	76	85	85	88	92

See footnotes at end of section.

TABLE 66.

Federal Government Payments to Canadian Business Enterprises for R&D in the Social Sciences, by Activity, 1993-1994 to 2002-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
Contracts	2	2	2	1	1	2	2	1	1	1
Grants and contributions	0	3	1	2	0	0	0	1	0	0
Research fellowships	0	0	0	0	0	0	0	0	0	0
TOTAL.....	2	5	3	3	2	3	2	2	1	1

TABLE 67.

Federal Government Payments to Canadian Business Enterprises for R&D in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
AGR.....	0	2	0	0	0	0	0	0	0	0
CMHC.....	1	1	1	1	1	1	1	1	1	1
HC.....	0	0	0	0	0	1	1	0	0	0
HRDC.....	0	2	1	1	0	0	0	0	0	0
Other.....	1	0	1	1	1	1	0	1	0	0
TOTAL.....	2	5	3	3	2	3	2	2	1	1

TABLE 68.

Federal Government Payments to the Higher Education Sector for R&D in the Social Sciences, by Activity, 1993-1994 to 2003-2003^P

Activity	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
Contracts.....	10	10	9	10	9	8	8	8	9	8
Grants and contributions.....	65	67	65	62	63	64	85	96	127	139
Research fellowships.....	9	10	10	10	8	8	3	3	1	1
TOTAL.....	85	86	85	81	80	80	97	107	137	148

TABLE 69.

Federal Government Payments to the Higher Education Sector for R&D in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
CIDA.....	10	10	9	9	9	8	9	8	9	8
HC.....	6	9	8	9	9	5	5	4	5	6
HRDC.....	4	4	2	2	3	3	2	2	2	2
IDRC.....	2	1	1	2	1	2	2	2	2	2
SSHRC.....	61	61	63	57	57	59	77	88	107	129
Other.....	2	1	2	2	1	3	2	3	12	1
TOTAL.....	85	86	85	81	80	80	97	107	137	148

TABLE 70.

Federal Government Expenditures on RSA in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
BC	30	28	27	29	30	34	29	30	35	41
CH ¹	7	75	74	74	69	1	1	1	1	1
CIDA	131	114	101	102	95	99	104	111	105	99
CMC	41	51	49	51	50	50	50	53	60	82
CMHC	13	14	11	10	10	12	16	18	13	14
CSTM	18	24	24	25	24	23	24	26	26	29
ENV	86	5	4	4	3	4	4	4	5	4
FA&IT	52	60	58	59	58	49	54	45	48	52
FIN	24	22	20	19	20	22	26	25	27	28
HC	30	11	16	12	11	6	8	11	10	12
HRDC	28	31	38	43	48	43	46	48	47	47
IND ²	17	12	15	14	15	17	17	18	18	19
IDRC	11	13	9	12	14	16	9	7	6	6
NA	43	62	65	46	36	35	35	41	50	56
NGC	24	27	30	26	37	39	34	35	36	37
NL	58	49	49	43	42	40	42	48	51	51
PCA ¹ .....	...	...	...	...	...	74	54	71	72	72
SSHRC	34	34	31	29	31	36	35	40	48	57
STCAN	337	343	397	526 ³	389	426	448	563	712 ³	495
TB	36	35	35	32	34	37	44	47	59	37
Other	89	56	50	55	66	61	69	70	75	89
TOTAL	1,109	1,066	1,103	1,211	1,082	1,124	1,149	1,312	1,504	1,328

See footnotes at end of section.

TABLE 71.

Federal Government Expenditures on Intramural RSA in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	in millions of dollars									
AGR.....	11	4	6	7	6	6	7	7	7	7
BC	30	28	27	29	30	34	29	30	35	41
CH ¹	0	70	70	72	65	...	...	...	...	...
CMC	41	51	49	51	50	50	50	53	60	82
CMHC.....	10	10	8	7	8	10	13	15	10	12
CSTM	18	24	24	25	24	23	24	26	26	29
ENV	86	5	4	4	3	4	4	4	5	4
FA&IT	10	10	11	11	11	10	11	10	11	11
FIN.....	24	22	20	19	20	22	26	25	27	28
HC	15	4	5	4	2	1	1	2	3	5
HRDC	15	15	29	32	28	23	24	29	31	31
IDRC.....	18	17	16	23	24	26	8	6	5	6
IND ²	16	11	14	14	15	17	17	18	18	19
NA	41	60	63	44	34	33	34	38	46	52
NGC.....	24	27	30	26	37	39	34	35	36	37
NL.....	58	49	48	43	42	40	42	48	51	51
PCA ¹.....	...	...	...	...	...	74	53	70	71	71
STCAN.....	337	343	396	525 ³	389	425	447	562	711 ³	494
TB.....	36	35	35	32	34	37	44	47	59	37
Other.....	34	35	28	32	44	46	57	61	72	75
TOTAL.....	824	820	883	1,000	866	920	925	1,086	1,284	1,092

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
CBC.....	5	6	5	5	5	...	...	...	...	...
CIDA.....	16	15	19	19	17	17	18	18	20	18
CMHC.....	2	2	1	1	1	1	2	2	2	2
HC.....	1	2	2	1	1	0	0	2	2	2
HRDC.....	8	7	4	2	3	3	4	4	3	3
JUS.....	1	0	1	1	1	0	0	0	0	0
Other.....	4	8	5	2	5	5	4	4	4	4
TOTAL.....	37	40	37	31	33	26	28	30	31	29

TABLE 73.

Federal Government Payments to the Higher Education Sector for RSA in the Social Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
in millions of dollars										
CIDA.....	40	37	36	36	33	33	34	31	35	32
CMHC.....	1	1	0	0	0	0	0	0	0	0
FA&IT.....	16	16	14	14	18	14	16	13	13	14
HC.....	3	3	4	4	3	2	3	3	1	1
SSHRC.....	20	19	19	18	20	23	21	26	31	38
Other.....	4	2	2	4	3	1	1	1	3	1
TOTAL.....	84	78	75	76	77	73	75	74	83	86

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, 1993-1994 to 2002-2003^P

Year	Natural Sciences	Social Sciences	Total
		person-years ¹	
All scientific activities²:			
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.....	20,773	9,938	30,711
2000-2001 ^f	21,349	10,790	32,139
2001-2002 ^P	21,674	11,026	32,701
2002-2003 ^P	22,089	10,246	32,335
R&D²:			
1993-94.....	16,600	638	17,237
1994-95.....	16,114	618	16,732
1995-96.....	14,971	584	15,555
1996-97.....	14,260	576	14,836
1997-98.....	13,427	526	13,952
1998-99.....	13,217	512	13,729
1999-2000.....	13,497	583	14,080
2000-2001 ^f	14,120	592	14,712
2001-2002 ^P	14,354	586	14,941
2002-2003 ^P	14,699	588	15,286

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, 1993-1994 to 2002-2003^P

Year	Natural Sciences			Social Sciences			Total
	person-years ¹						
All scientific activities:	S&P	AEP	Total	S&P	AEP	Total	Total
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.....	8,344	338	8,681	2,926	124	3,050	11,732
1999-2000.....	8,652	353	9,005	3,000	137	3,137	12,142
2000-2001 ^f	8,836	322	9,158	3,220	161	3,382	12,540
2001-2002 ^P	9,115	355	9,470	3,265	163	3,427	12,896
2002-2003 ^P	9,224	371	9,595	3,164	164	3,327	12,923
R&D:							
1993-94.....	6,007	378	6,385	179	78	257	6,641
1994-95.....	5,984	331	6,315	176	82	258	6,573
1995-96.....	5,668	319	5,987	173	69	242	6,229
1996-97.....	5,763	269	6,032	216	64	279	6,312
1997-98.....	5,338	271	5,609	180	60	240	5,848
1998-99.....	5,356	260	5,617	174	62	236	5,852
1999-2000.....	5,474	275	5,749	202	67	269	6,018
2000-2001 ^f	5,588	250	5,838	213	79	292	6,130
2001-2002 ^P	5,780	284	6,064	205	80	285	6,349
2002-2003 ^P	5,873	299	6,172	204	81	285	6,457

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, 1993-1994 to 2002-2003^P

Category	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	person-years									
Executive.....	713	682	653	...	...	...	...	...	...	...
Scientific and professional ¹	11,536	11,917	11,327	11,770	11,544	11,732	12,142	12,540	12,896	12,923
Administrative and foreign service.....	4,510	4,458	4,590	...	...	...	...	...	...	...
Technical.....	8,526	8,196	7,846	7,773	7,653	7,426	7,775	7,854	7,939	7,835
Administrative support ¹	5,674	5,001	4,786	11,051	10,590	10,327	10,794	11,745	11,865	11,577
Operational.....	2,992	2,906	2,726	...	...	...	...	...	...	...
Military.....	195	188	76	...	...	...	...	...	...	...
TOTAL.....	34,145	33,349	32,005	30,594	29,787	29,485	30,711	32,139	32,701	32,335

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, 1993-1994 to 2002-2003^P

Category	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	person-years ¹									
Executive	253	232	229	...	...	...	...	...	...	...
Scientific and professional ²	6,389	6,341	5,999	6,312	5,848	5,852	6,018	6,130	6,349	6,457
Administrative and foreign service.....	1,603	1,550	1,560	...	...	...	...	...	...	...
Technical	4,523	4,689	4,296	4,098	3,906	3,824	3,870	3,818	3,813	3,862
Administrative support ²	2,272	1,863	1,727	4,426	4,198	4,053	4,192	4,764	4,779	4,967
Operational	2,019	1,883	1,677	...	...	...	...	...	...	...
Military	179	173	67	...	...	...	...	...	...	...
TOTAL.....	17,237	16,732	15,555	14,836	13,952	13,729	14,080	14,712	14,941	15,286

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, 1993-1994 to 2002-2003^P

Category	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^r	2001-2002 ^P	2002-2003 ^P
	person-years									
Executive	370	342	329	...	...	...	...	...	...	...
Scientific and professional ¹	8,839	9,158	8,709	8,937	8,655	8,681	9,005	9,158	9,470	9,595
Administrative and foreign service.....	2,301	2,217	2,231	...	...	...	...	...	...	...
Technical	6,782	6,474	6,131	6,020	5,816	5,553	5,833	5,742	5,813	5,893
Administrative support ¹	3,333	2,707	2,591	6,049	5,842	5,657	5,935	6,449	6,392	6,600
Operational	2,507	2,453	2,308	...	...	...	...	...	...	...
Military	168	166	54	...	...	...	...	...	...	...
TOTAL.....	24,300	23,516	22,355	21,006	20,313	19,891	20,773	21,349	21,674	22,089

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	person-years									
AECL	2,572	2,568	2,560	1,700	1,460	1,195	1,170	886	950	1,000
AGR.....	3,651	3,555	3,291	2,910	2,519	2,499	2,477	2,800	2,408	2,408
CSA	355	355	370	392	344	324	377	419	470	544
EMR.....	2,607	...	...	...	...	...	...	...	...	...
ENV ¹	3,916	3,493	3,389	2,940	2,887	2,819	2,976	2,965	3,110	3,202
F&O	2,084	2,008	2,231	2,191	1,993	1,928	2,130	2,267	2,234	2,226
FOR	993	...	...	...	...	...	...	...	...	...
HC	1,270	1,347	1,271	1,547	1,834	1,782	1,894	1,809	1,621	1,596
NDEF.....	1,756	1,611	1,195	1,292	1,310	1,409	1,402	1,459	1,533	1,533
NRC.....	3,325	3,307	3,099	3,097	3,202	3,266	3,310	3,426	3,610	3,688
NRCAN.....	...	3,562	3,265	3,052	2,848	2,698	2,807	2,870	3,117	3,146
Other.....	1,771	1,710	1,684	1,885	1,916	1,971	2,230	2,448	2,621	2,746
TOTAL.....	24,300	23,516	22,355	21,006	20,313	19,891	20,773	21,349	21,674	22,089

^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, 1993-1994 to 2002-2003^P

Category	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	person-years ¹									
Executive	229	208	204	...	...	...	...	...	...	...
Scientific and professional ²	6,156	6,107	5,783	6,032	5,609	5,617	5,749	5,838	6,064	6,172
Administrative and foreign service	1,490	1,448	1,461	...	...	...	...	...	...	...
Technical	4,448	4,620	4,231	4,039	3,837	3,761	3,795	3,750	3,750	3,798
Administrative support ²	2,108	1,697	1,570	4,188	3,981	3,839	3,953	4,532	4,540	4,728
Operational	2,007	1,874	1,668	...	...	...	...	...	...	...
Military	162	160	54	...	...	...	...	...	...	...
TOTAL.....	16,600	16,114	14,971	14,260	13,427	13,217	13,497	14,120	14,354	14,699

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 81.

Federal Government Personnel Engaged in R&D Activities in the Natural Sciences, by Department or Agency, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	person-years ¹									
AECL	2,147	2,024	2,015	1,700	1,460	1,195	1,170	866	950	1,000
AGR.....	3,327	3,244	3,011	2,820	2,427	2,426	2,410	2,800	2,408	2,408
EMR.....	2,179	...	...	...	...	...	...	...	...	...
ENV	765	810	972	827	767	732	826	812	851	872
F&O	1,042	1,004	902	876	797	771	852	893	886	882
FOR.....	833	...	...	...	...	...	...	...	...	...
NDEF.....	1,705	1,567	1,144	1,136	1,149	1,282	1,275	1,264	1,338	1,338
NRC.....	2,926	2,897	2,692	2,651	2,729	2,777	2,808	2,758	2,891	2,957
NRCAN.....	...	2,976	2,646	2,536	2,371	2,284	2,306	2,386	2,484	2,506
Other.....	1,676	1,592	1,589	1,714	1,727	1,750	1,850	2,341	2,546	2,736
TOTAL.....	16,600	16,114	14,971	14,260	13,427	13,217	13,497	14,120	14,354	14,699

^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, 1993-1994 to 2002-2003^P

Category	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	person-years									
Executive	343	341	324	...	...	...	...	...	...	...
Scientific and professional ¹	2,697	2,759	2,618	2,833	2,889	3,051	3,137	3,382	3,427	3,327
Administrative and foreign service.....	2,209	2,242	2,359	...	...	...	...	...	...	...
Technical	1,744	1,723	1,715	1,752	1,837	1,873	1,942	2,112	2,127	1,942
Administrative support ¹	2,341	2,295	2,195	5,003	4,748	4,670	4,859	5,296	5,473	4,977
Operational	485	453	417	...	...	...	...	...	...	...
Military	27	22	22	...	...	...	...	...	...	...
TOTAL.....	9,845	9,833	9,650	9,588	9,475	9,594	9,938	10,790	11,026	10,246

^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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	person-years									
BC	178	165	161	156	142	134	206	219	237	238
CH ¹	3	620	558	502	477	...	...	...	...	...
CMC	525	578	510	485	484	463	437	421	425	425
ENV ¹	746	30	28	27	14	25	25	27	28	28
FIN	283	255	231	220	239	236	267	289	270	305
HC	89	65	63	74	38	24	17	33	37	48
HRDC ²	251	363	338	273	268	337	428	450	454	451
IDRC	159	162	147	119	119	126	132	98	104	103
IND	210	133	127	146	153	162	174	196	200	201
NA	420	395	379	343	338	362	380	364	391	391
NGC	269	259	239	239	242	248	250	225	225	225
NL	504	500	475	449	427	416	431	424	469	469
PCA ¹ .....	...	...	...	...	...	450	418	521	521	521
STCAN	4,489	4,607	4,894	5,004	4,959	5,042	5,096	5,811	5,818	5,023
TB	376	397	371	349	335	305	375	411	427	381
Other	1,343	1,304	1,129	1,202	1,240	1,264	1,302	1,301	1,420	1,437
TOTAL	9,845	9,833	9,650	9,588	9,475	9,594	9,938	10,790	11,026	10,246

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, 1993-1994 to 2002-2003^P

Category	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	person-years ¹									
Executive	24	24	25	...	...	...	...	...	...	...
Scientific and professional ²	233	234	217	279	240	236	269	292	285	285
Administrative and foreign service.....	113	103	98	...	...	...	...	...	...	...
Technical	75	69	65	58	69	63	75	68	63	64
Administrative support ²	164	166	157	238	217	213	239	232	239	239
Operational	12	9	9	...	...	...	...	...	...	...
Military	17	13	13	...	...	...	...	...	...	...
TOTAL.....	638	618	584	576	526	512	583	592	586	588

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, 1993-1994 to 2002-2003^P

Department or agency	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-2001 ^f	2001-2002 ^P	2002-2003 ^P
	person-years ¹									
BC	25	23	22	24	40	38	64	59	59	59
CMC	99	109	97	58	58	56	53	52	52	52
CMHC.....	28	28	22	20	20	17	19	17	21	22
NDEF.....	37	35	35	100	20	15	15	15	15	15
NGC.....	54	51	47	47	48	47	47	42	42	42
STCAN.....	118	118	127	125	144	141	158	167	151	151
Other.....	277	254	234	202	196	198	227	240	246	247
TOTAL.....	638	618	584	576	526	512	583	592	586	588

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

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