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Federal government expenditures on scientific activities, 2006/2007

This bulletin presents recent statistical information on the performance and funding of federal government expenditures on scientific activities, 2006/2007. The statistics presented are derived from the survey of science and technology (S&T) activities of federal departments and agencies. The data in this publication are consistent with expenditures of departments and agencies as reported in the Main Estimates 2006/2007, but do not reflect changes to 2006/2007 spending plans which may result from supplementary estimates or other departmental planning decisions.

Highlights

- ▶ The federal government's science and technology (S&T) spending intentions for 2006/2007 are \$9.2 billion, 62% of which will be allocated to research and experimental development (R&D) and 38% to related scientific activities (RSA). Relative to 2005/2006, this is a slight decline of 0.5% for science and technology (S&T) activities and 1.5% for research and experimental development (R&D). On the other hand, federal expenditures on related scientific activities (RSA) are expected to increase by 1.3%.
- ▶ Between 1998 and 2001, federal government spending on science and technology (S&T), research and experimental development (R&D) and related scientific activities (RSA) grew an average of 8.8% a year (in constant dollars). Between 2002 and 2005, however, the growth rate was just 0.5% for science and technology (S&T) spending by the federal government (in constant dollars).
- ▶ For 2006/2007, the federal government's Main Estimates are up 6.8%. This increase will cause a decline in federal spending on science and technology (S&T), research and experimental development (R&D) and related scientific activities (RSA) as a percentage of the Main Estimates.
- ▶ In 2006/2007, 53% (\$4.9 billion) of the science and technology (S&T) expenditures will be earmarked for activities performed by the federal government itself. For research and experimental development (R&D) and related scientific activities (RSA), the percentage of intramural spending will be 38% and 77%.
- ▶ The majority of federal government funding will go to natural science and engineering activities (75% in 2006/2007), including (73%) for research and experimental development (R&D).
- ▶ For 2006/2007, 71% of federal government funding allocated to the social sciences and humanities will be spent on related scientific activities, such as data collection, information services as well as special services and studies.

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- ▶ The federal government departments and agencies with the largest estimated expenditures on science and technology (S&T) activities in 2006/2007 are the Natural Sciences and Engineering Research Council, the National Research Council of Canada, Environment Canada, the Canadian Institutes of Health Research and Statistics Canada, which together account for 42% of the federal government's total science and technology expenditures.

The questionnaire on scientific activities is designed to correspond as much as possible to the system of budgetary estimates used by the federal government. This is done to ease the response burden, assist in editing and, most importantly, to produce comparable data for policy planning and program evaluation. Thus the questionnaire covers the same time span as the Estimates including: proposed estimates for the coming fiscal year, i.e. 2006/2007; forecast expenditures for the current fiscal year, i.e. 2005/2006 and, actual expenditures for the past fiscal year, i.e. 2004/2005 (also reported in the Public Accounts).

As well as the expenditures attributable to program budgets, there are additional costs attributable to scientific activities which must be included if a full picture of the resources devoted to science activities is to be obtained. These include other sources of funds and other S&T costs which are defined below:

Budgetary sources - as expressed in the Main Estimates:

- Own departmental budget.
- Other federal agencies - transfers into the program from other federal government departments and agencies, net of transfers out.

External sources:

Income from other sources such as industry and provincial governments.

Other S&T costs:

Non-program costs (indirect costs) are costs that are not part of the budgets of scientific programs and include services provided by other departments, such as:

- accommodation by Public Works and Government Services Canada and own department
- employer's share of health and employment insurance premiums paid by Treasury Board
- employee compensation under Workers Compensation Acts paid by Social Development Canada
- cost of legal services provided by the Department of Justice Canada
- cheques issue cost by Public Works and Government Services Canada
- overhead - portion of a central administration program costs attributable to scientific activities

Note to users

For the 2005-2006 and 2006-2007 fiscal years, non-program costs have been calculated differently to prior years. This is due to the fact the federal departments *Part III Report on Plans and Priorities; 2006-2007 Estimates* are not yet available. Once these documents are available, the estimates will be revised.

In order to calculate non-program costs for fiscal years 2005-2006 and 2006-2007, information on services provided without charge by other departments and counts of full-time equivalents published in the *Part III Report on Plans and Priorities; 2005-2006 Estimates* have been used. The non-program costs for 2004-2005 have been calculated using federal departments *2004-2005 Departmental Performance Reports* (www.tbs.gc.ca).

If there has been any additional funding to the federal science and technology based departments for 2005-2006 and 2006-2007, these figures will appear in the revised estimates once the *Part III Report on Plans and Priorities; 2006-2007 Estimates* have been tabled.

Table 1 Federal expenditures on science and technology (S&T), research and experimental development (R&D) and related scientific activities (RSA) in current dollars and in constant 1997 dollars, 1995 to 2006

Year	Current dollars					Constant 1997 dollars				
	S&T				GDP implicit price index ²	S&T				
	Main Estimates ¹	Total S&T	R&D	RSA		Main Estimates ¹	Total S&T	R&D	RSA	
in millions of dollars						in millions of dollars				
1995/1996	164,191	5,693	3,465	2,228	97.2	168,921	5,857	3,565	2,292	
1996/1997	156,985	5,694	3,391	2,303	98.8	158,892	5,763	3,432	2,331	
1997/1998	149,555	5,509	3,379	2,130	100.0	149,555	5,509	3,379	2,130	
1998/1999	145,457	5,802	3,578	2,224	99.6	146,041	5,825	3,592	2,233	
1999/2000	151,559	6,252	3,890	2,362	101.3	149,614	6,172	3,840	2,332	
2000/2001	156,157	6,707	4,150	2,557	105.5	148,016	6,357	3,934	2,424	
2001/2002	165,234	8,169	4,989	3,180	106.7	154,858	7,656	4,676	2,980	
2002/2003	170,367	8,014	4,927	3,087	107.8	158,040	7,434	4,571	2,864	
2003/2004 ^f	175,937	8,765	5,462	3,303	111.3	158,075	7,875	4,907	2,968	
2004/2005 ^f	183,290	8,935	5,455	3,480	114.7	159,799	7,790	4,756	3,034	
2005/2006 ^p	185,863	9,228	5,751	3,477	118.3	157,112	7,801	4,861	2,939	
2006/2007 ^p	198,595	9,185	5,663	3,523	..	..	..	..	..

1. Part 1, Government Expenditure Plan, Estimates.
 2. CANSIM II Table 384-0036.

Chart 1 Federal expenditures on science and technology (S&T), research and experimental development (R&D) and related scientific activities (RSA) as a percentage of the Main Estimates

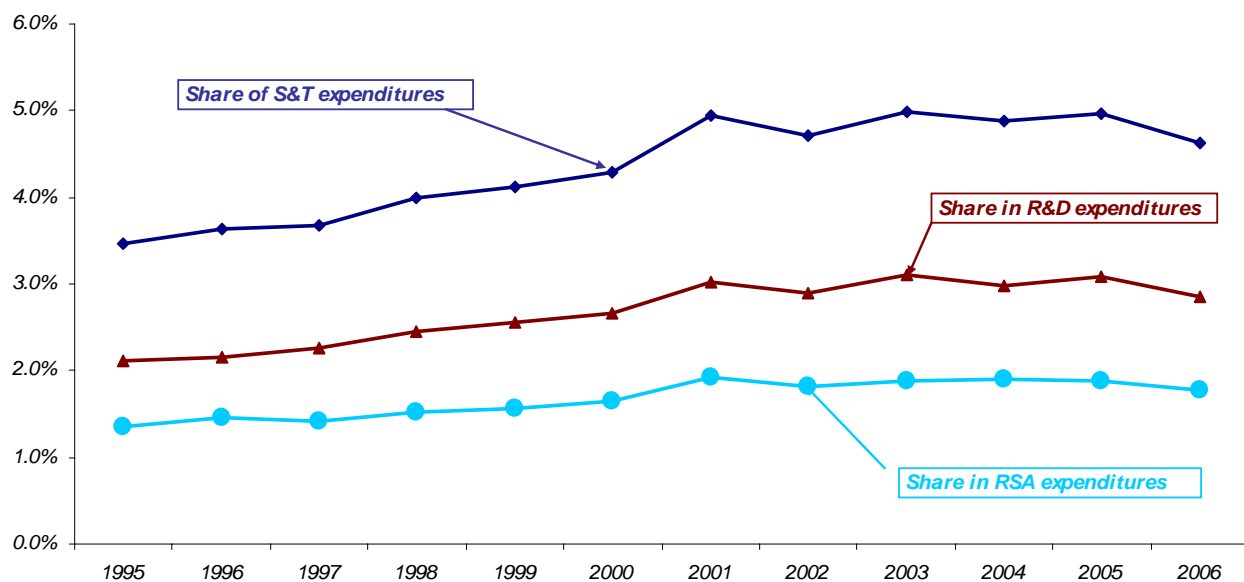


Table 2 Growth rate of federal expenditures on science and technology (S&T), research and experimental development (R&D) and related scientific activities (RSA) in current dollars and constant 1997 dollars

Year	Growth rate of S&T expenditures		Growth rate of R&D expenditures		Growth rate of RSA expenditures	
	percent		percent		percent	
	Constant 1997 dollars	Current dollars	Constant 1997 dollars	Current dollars	Constant 1997 dollars	Current dollars
1996	-1.6	0.0	-3.7	-2.1	1.7	3.4
1997	-4.4	-3.2	-1.5	-0.4	-8.6	-7.5
1998	5.7	5.3	6.3	5.9	4.8	4.4
1999	5.9	7.8	6.9	8.7	4.4	6.2
2000	3.0	7.3	2.4	6.7	3.9	8.3
2001	20.4	21.8	18.9	20.2	23.0	24.4
2002	-2.9	-1.9	-2.3	-1.2	-3.9	-2.9
2003	5.9	9.4	7.4	10.9	3.6	7.0
2004	-1.1	1.9	-3.1	-0.1	2.2	5.4
2005	0.1	3.3	2.2	5.4	-3.1	-0.1
2006	..	-0.5	..	-1.5	..	1.3

Chart 2 Growth rate of federal expenditures on science and technology (S&T), research and experimental development (R&D) and related scientific activities (RSA) in current dollars and constant 1997 dollars

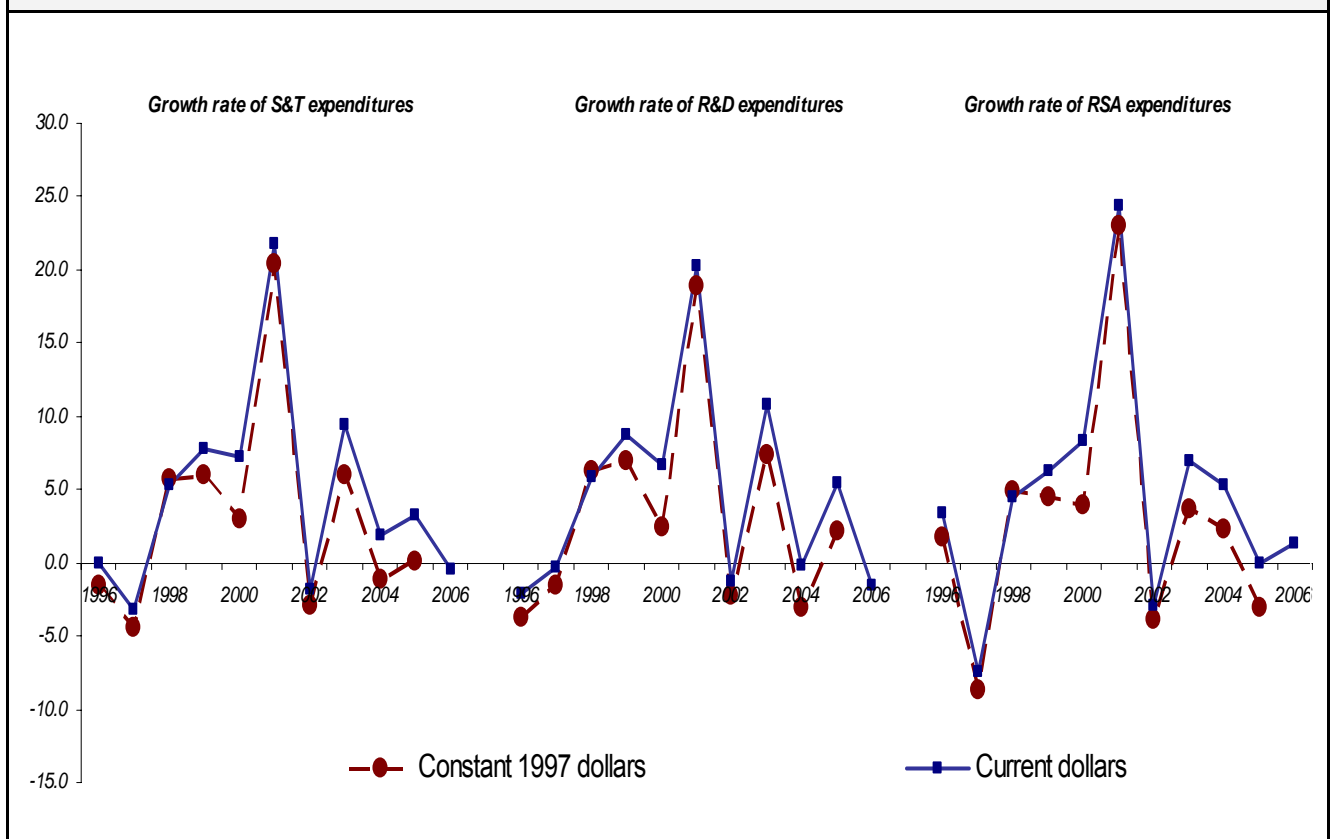


Table 3 Federal science and technology (S&T) spending estimates for selected departments and agencies, 2006/2007						
Department or agency	Total estimated expenditures on science	Sources of expenditures on science				
		External sources	Other S&T costs		Budgetary sources	
			Indirect non-program costs	Other federal agencies ¹	Own department	
in millions of dollars						
Agriculture and Agri-Food Canada	341	0	16	-16	341	
Atomic Energy of Canada Limited	201	22	0	0	179	
Canadian Space Agency	370	0	4	-8	374	
Environment Canada	602	69	44	26	463	
Fisheries and Oceans Canada	273	25	16	7	225	
Health Canada	317	8	26	1	282	
Industry Canada	377	0	13	-2	366	
National Defence	412	10	13	-14	403	
National Research Council	770	20	20	38	692	
Natural Resources Canada	494	8	23	3	460	
Statistics Canada	795	39	64	91	601	

1. Negative amounts denote net transfer from budget for S&T.

Table 4 Federal science and technology (S&T) spending by activity, 1997/1998 to 2006/2007										
Scientific activity	1997/ 1998	1998/ 1999	1999/ 2000	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004 ^f	2004/ 2005 ^f	2005/ 2006 ^p	2006/ 2007 ^p
in millions of dollars										
Research & Development (R&D):										
Current expenditures	3,062	3,241	3,559	3,770	4,571	4,492	5,033	5,033	5,314	5,259
Administration of extramural programs	163	200	186	182	213	227	257	269	282	275
Capital expenditures	154	137	144	198	205	208	172	152	154	128
<i>Sub-total R&D*</i>	<i>3,379</i>	<i>3,578</i>	<i>3,890</i>	<i>4,150</i>	<i>4,989</i>	<i>4,927</i>	<i>5,462</i>	<i>5,455</i>	<i>5,751</i>	<i>5,663</i>
Related Scientific Activities (RSA):										
Data collection	964	1,022	1,105	1,231	1,611	1,498	1,618	1,702	1,699	1,717
Information services	465	469	486	484	618	679	663	679	708	717
Special services and studies	436	452	485	531	513	588	615	666	644	655
Education support	142	157	168	163	286 ¹	177	206	230	253	267
Administration of extramural programs	32	35	40	46	49	54	56	58	58	61
Capital expenditures	91	89	77	102	103	91	145	146	115	106
<i>Sub-total RSA*</i>	<i>2,130</i>	<i>2,224</i>	<i>2,362</i>	<i>2,557</i>	<i>3,180</i>	<i>3,087</i>	<i>3,303</i>	<i>3,480</i>	<i>3,477</i>	<i>3,523</i>
Total*	5,509	5,802	6,252	6,707	8,169	8,014	8,765	8,935	9,228	9,185

* Due to rounding, components may not add to the totals.

1. Includes a \$125 million grant to the Pierre Elliott Trudeau Foundation.

Table 5 Federal intramural science and technology (S&T) spending by activity, 1997/1998 to 2006/2007

Scientific activity	1997/ 1998	1998/ 1999	1999/ 2000	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004 ^f	2004/ 2005 ^f	2005/ 2006 ^p	2006/ 2007 ^p
in millions of dollars										
Research & Development (R&D):										
Current expenditures	1,403	1,406	1,528	1,700	1,684	1,754	1,655	1,662	1,725	1,741
Administration of extramural programs	163	200	186	182	213	227	257	269	282	275
Capital expenditures	154	137	144	198	205	208	172	152	154	128
<i>Sub-total R&D*</i>	<i>1,720</i>	<i>1,743</i>	<i>1,859</i>	<i>2,080</i>	<i>2,102</i>	<i>2,190</i>	<i>2,083</i>	<i>2,084</i>	<i>2,162</i>	<i>2,145</i>
Related Scientific Activities (RSA):										
Data collection	886	942	1,022	1,152	1,518	1,393	1,393	1,479	1,578	1,602
Information services	404	408	420	417	522	595	584	587	634	637
Special services and studies	207	223	231	238	253	295	311	326	310	323
Education support	11	15	9	8	8	13	7	7	7	7
Administration of extramural programs	32	35	40	46	49	54	57	58	58	61
Capital expenditures	91	89	77	102	103	91	145	146	115	106
<i>Sub-total RSA*</i>	<i>1,631</i>	<i>1,712</i>	<i>1,799</i>	<i>1,963</i>	<i>2,453</i>	<i>2,440</i>	<i>2,496</i>	<i>2,601</i>	<i>2,703</i>	<i>2,736</i>
Total*	3,351	3,455	3,658	4,043	4,555	4,630	4,579	4,685	4,865	4,881

* Due to rounding, components may not add to the totals.

Table 6 Federal science and technology (S&T) spending by science and by performing sector,¹ 1997/1998 to 2006/2007

Sector of performance	1997/ 1998	1998/ 1999	1999/ 2000	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004 ^f	2004/ 2005 ^f	2005/ 2006 ^p	2006/ 2007 ^p
in millions of dollars										
Total sciences:										
Intramural	3,351	3,455	3,658	4,043	4,555	4,630	4,579	4,685	4,865	4,881
Canadian business enterprises	927	952	926	847	1,109	998	1,039	979	1,059	1,041
Higher education	860	989	1,173	1,320	1,739	1,803	2,255	2,396	2,709	2,735
Canadian non-profit institutions	110	122	181	154	400	200	514	444	238	183
Provincial and municipal government	12	14	18	37	31	34	32	22	39	10
Foreign	222	233	229	250	282	284	288	358	275	294
Other Canadian performers	27	37	67	56	53	65	57	51	44	41
Total*	5,509	5,802	6,252	6,707	8,169	8,014	8,765	8,935	9,228	9,185
Natural sciences:										
Intramural	2,417	2,459	2,648	2,872	3,166	3,308	3,277	3,341	3,424	3,406
Canadian business enterprises	892	924	896	816	1,071	965	998	942	1,016	999
Higher education	702	836	1,002	1,139	1,341	1,583	1,761	1,848	2,082	2,101
Canadian non-profit institutions	57	56	128	98	226 ²	130	459 ⁵	397 ⁷	195	142
Provincial and municipal government	9	11	15	22	14	29	27	20	38	10
Foreign	126	134	134	144	157	168	168	202	146	167
Other Canadian performers	19	31	42	33	30	42	33	31	29	28
Total*	4,222	4,450	4,866	5,124	6,005	6,225	6,723	6,780	6,929	6,853
Social sciences:										
Intramural	934	996	1,010	1,171	1,389	1,322	1,302	1,344	1,441	1,475
Canadian business enterprises	35	29	30	32	38	33	41	37	43	42
Higher education	158	153	171	181	398 ³	220	494 ⁶	549 ⁸	627 ⁹	634 ⁹
Canadian non-profit institutions	53	65	52	56	174 ⁴	70	55	47	43	41
Provincial and municipal government	3	3	3	15	17	5	5	2	1	1
Foreign	96	99	95	106	125	116	120	156	129	127
Other Canadian performers	8	6	25	23	23	23	24	21	15	14
Total*	1,287	1,352	1,386	1,583	2,164	1,789	2,042	2,155	2,299	2,333

* Due to rounding, components may not add to the totals.

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

2. Includes \$100 million for the Sustainable Development Technology Fund (Environment Canada and Natural Resources Canada each provided \$50 million).

3. Includes \$200 million for indirect costs of university research funded by the Social Sciences and Humanities Research Council.

4. Includes a \$125 million grant to the Pierre Elliott Trudeau Foundation.

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

6. Includes \$225 million for indirect costs of university research funded by the Social Sciences and Humanities Research Council.

7. Includes \$100 million for the Sustainable Development Technology Fund funded by Environment Canada.

8. Includes \$245 million for indirect costs of university research funded by the Social Sciences and Humanities Research Council.

9. Includes \$260 million for indirect costs of university research funded by the Social Sciences and Humanities Research Council.

Table 7 Federal research and experimental development (R&D) spending by science and by performing sector,¹ 1997/1998 to 2006/2007

Sector of performance	1997/ 1998	1998/ 1999	1999/ 2000	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004 ^f	2004/ 2005 ^f	2005/ 2006 ^p	2006/ 2007 ^p
in millions of dollars										
Total sciences:										
Intramural	1,720	1,743	1,859	2,080	2,102	2,190	2,083	2,084	2,162	2,145
Canadian business enterprises	721	749	713	624	862	726	770	704	724	713
Higher education	725	842	1,010	1,170	1,595	1,644	2,059	2,173	2,455	2,465
Canadian non-profit institutions	71	82	130	76	233	142	340	260	185	128
Provincial and municipal government	6	9	13	34	26	26	22	15	34	6
Foreign	120	124	118	131	136	153	144	185	164	181
Other Canadian performers	16	29	46	35	35	46	43	33	28	26
Total*	3,379	3,578	3,890	4,150	4,989	4,927	5,462	5,455	5,751	5,663
Natural sciences:										
Intramural	1,651	1,667	1,774	1,995	2,010	2,073	1,964	1,965	2,045	2,027
Canadian business enterprises	720	747	711	622	857	722	766	700	720	708
Higher education	644	762	913	1,063	1,265	1,495	1,661	1,734	1,961	1,974
Canadian non-profit institutions	47	43	109	48	202 ²	107	310 ⁴	242	168	116
Provincial and municipal government	4	8	13	19	9	24	18	14	33	6
Foreign	94	97	95	104	112	123	112	135	111	128
Other Canadian performers	15	27	37	27	25	37	29	25	22	21
Total*	3,174	3,350	3,653	3,879	4,480	4,581	4,860	4,815	5,061	4,979
Social sciences:										
Intramural	69	76	85	85	92	117	120	118	116	118
Canadian business enterprises	2	3	2	2	5	4	4	4	5	5
Higher education	80	80	97	107	330 ³	149	398 ⁵	439 ⁶	494 ⁷	491 ⁷
Canadian non-profit institutions	24	39	21	28	31	35	30	18	16	12
Provincial and municipal government	2	1	1	15	17	2	4	2	1	0
Foreign	27	27	23	27	24	30	32	50	53	53
Other Canadian performers	1	2	9	8	10	9	14	9	5	5
Total*	205	228	237	271	509	346	602	640	690	684

* Due to rounding, components may not add to the totals.

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

2. Includes \$100 million for the Sustainable Development Technology Fund (Environment Canada and Natural Resources Canada each provided \$50 million).

3. Includes \$200 million for indirect costs of university research funded by the Social Sciences and Humanities Research Council.

4. Includes \$50 million for the Canadian Foundation for Climate and Atmospheric Sciences funded by Environment Canada.

5. Includes \$225 million for indirect costs of university research funded by the Social Sciences and Humanities Research Council.

6. Includes \$245 million for indirect costs of university research funded by the Social Sciences and Humanities Research Council.

7. Includes \$260 million for indirect costs of university research funded by the Social Sciences and Humanities Research Council.

Table 8 Federal spending on related scientific activities (RSA) by science and by performing sector,¹ 1997/1998 to 2006/2007

Sector of performance	1997/ 1998	1998/ 1999	1999/ 2000	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004 ^f	2004/ 2005 ^f	2005/ 2006 ^p	2006/ 2007 ^p
in millions of dollars										
Total sciences:										
Intramural	1,631	1,712	1,799	1,963	2,453	2,440	2,496	2,601	2,703	2,736
Canadian business enterprises	206	203	212	223	247	272	269	275	335	329
Higher education	135	147	164	150	144	159	196	223	254	270
Canadian non-profit institutions	40	40	51	77	168	58	174	184	54	55
Provincial and municipal government	6	5	5	3	5	8	10	7	5	4
Foreign	101	109	111	119	145	131	144	173	111	113
Other Canadian performers	11	9	20	21	18	19	14	18	16	15
Total*	2,130	2,224	2,362	2,557	3,180	3,087	3,303	3,480	3,477	3,523
Natural sciences:										
Intramural	766	792	874	876	1,156	1,236	1,314	1,376	1,379	1,379
Canadian business enterprises	172	177	185	193	214	243	232	242	296	292
Higher education	58	74	89	76	76	88	100	114	120	127
Canadian non-profit institutions	11	14	20	50	25	23	148 ³	155 ⁴	27	27
Provincial and municipal government	5	3	3	3	5	5	9	6	4	4
Foreign	33	37	39	41	45	45	56	67	35	39
Other Canadian performers	4	4	5	6	5	5	4	6	7	6
Total*	1,048	1,100	1,213	1,245	1,526	1,644	1,864	1,965	1,868	1,873
Social sciences:										
Intramural	866	920	926	1,087	1,297	1,205	1,182	1,225	1,324	1,357
Canadian business enterprises	33	26	28	30	33	29	37	33	39	37
Higher education	77	73	75	74	68	71	95	109	133	144
Canadian non-profit institutions	29	26	31	27	143 ²	35	26	29	27	28
Provincial and municipal government	2	2	2	1	1	3	1	1	0	0
Foreign	69	72	72	78	100	87	87	106	76	74
Other Canadian performers	7	5	16	15	13	14	10	12	10	9
Total*	1,083	1,125	1,149	1,312	1,655	1,444	1,439	1,515	1,609	1,649

* Due to rounding, components may not add to the totals.

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

2. Includes a \$125 million grant to the Pierre Elliott Trudeau Foundation.

3. Includes \$125 million for the Sustainable Development Technology Fund funded by Environment Canada.

4. Includes \$100 million for the Sustainable Development Technology Fund funded by Environment Canada.

Table 9 Federal science and technology (S&T) spending by major¹ department or agency, 1997/1998 to 2006/2007

Department or agency	1997/ 1998	1998/ 1999	1999/ 2000	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004 ^t	2004/ 2005 ^t	2005/ 2006 ^p	2006/ 2007 ^p
	in millions of dollars									
Agriculture and Agri-Food Canada	359	351	387	363	337	320	334	340	367	341
Atlantic Canada Opportunities Agency	7	29	27	27	14	51	63	101	63	63
Atomic Energy of Canada Limited	174	135	132	136	178	147	179	148	182	201
Bank of Canada	41	45	41	42	48	67	69	68	70	73
Canada Economic Development (Québec Regions)	23	23	13	10	17	27	32	51	58	36
Canada Foundation for Innovation	2	31	118	188	239	332	365	271	444	443
Canada Mortgage and Housing Corporation	20	25	30	35	24	27	31	33	29	30
Canada Science and Technology Museum	24	23	24	26	29	30	34	44	28	28
Canadian International Development Agency	303	314	335	358	387	352	366	415	374	376
Canadian Food Inspection Agency	30	30	32	37	38	54	47	46	53	49
Canadian Institutes of Health Research	...	...	317	392	529	628	693	759	767	781
Canadian Museum of Civilization	55	55	55	58	64	83	127	127	90	74
Canadian Museum of Nature	26	23	24	26	28	31	31	30	59	62
Canadian Space Agency	230	343	305	310	330	320	269	276	336	370
Environment Canada ²	453	427	538	479	626	574	776	675	632	602
Fisheries and Oceans Canada	204	281	287	367	319	363	283	291	279	273
Foreign Affairs and International Trade Canada	58	49	54	45	48	48	45	31	31	31
Genome Canada	...	...	...	...	34	62	86	85	93	62
Health Canada	210	204	236	229	311	342	332	284	303	317
Industry Canada	407	343	301	336	687	424	434	426	449	377
International Development Research Centre	78	85	82	84	76	86	89	108	117	122
Library and Archives Canada	...	...	...	...	...	...	...	83	88	80
National Defence	311	304	335	315	315	358	403	430	431	412
National Gallery of Canada	46	49	42	44	45	51	54	59	57	57
National Research Council	524	554	597	655	719	793	778	793	720	770
Natural Resources Canada	396	386	421	437	554	511	651	632	514	494
Natural Sciences and Engineering Research Council	436	499	549	568	588	653	732	808	870	890
Parks Canada Agency	...	82	68	90	95	100	103	109	108	108
Public Health Agency of Canada	...	...	...	...	...	...	...	61	75	60
Social Sciences and Humanities Research Council	96	104	127	145	362 ³	188	460 ⁴	523 ⁵	576 ⁶	584 ⁶
Treasury Board	35	37	44	47	57	47	44	32	33	34
Statistics Canada	400	437	461	576	727	579	581	610	750	795
<i>Total of Major Departments*</i>	<i>4,947</i>	<i>5,266</i>	<i>5,981</i>	<i>6,422</i>	<i>7,826</i>	<i>7,647</i>	<i>8,490</i>	<i>8,747</i>	<i>9,045</i>	<i>8,996</i>
Other	562	535	271	285	344	367	275	188	183	189
Total*	5,509	5,802	6,252	6,707	8,169	8,014	8,765	8,935	9,228	9,185

* Due to rounding, components may not add to the totals.

1. Represent departments and agencies with the highest expenditures over the last three years.

2. Environment Canada resources include large one-time grants and contributions to initiatives outside of the department which did not result in increases in departmental expenditures (\$60M for Climate and Atmospheric Sciences in 1999/2000, \$50M for the Sustainable Development Technology Fund in 2001/2002, \$50M for the Canadian Foundation for Climate and Atmospheric Sciences and \$125M for the Sustainable Development Technology Fund in 2003/2004 and \$100M for the Sustainable Development Technology Fund in 2004/2005).

3. Includes \$200 million for indirect costs of university research.

4. Includes \$225 million for indirect costs of university research.

5. Includes \$245 million for indirect costs of university research.

6. Includes \$260 million for indirect costs of university research.

Table 10 Federal intramural science and technology (S&T) spending by major¹ department or agency, 1997/1998 to 2006/2007

Department or agency	1997/ 1998	1998/ 1999	1999/ 2000	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004 ^t	2004/ 2005 ^t	2005/ 2006 ^p	2006/ 2007 ^p
	in millions of dollars									
Agriculture and Agri-Food Canada	354	348	366	347	325	298	316	328	336	336
Atomic Energy of Canada Limited	154	114	123	128	168	136	168	141	172	190
Bank of Canada	41	45	41	42	48	67	69	68	70	73
Canada Economic Development (Québec Regions)	2	2	3	2	4	4	8	13	15	10
Canada Mortgage and Housing Corporation	15	20	24	29	18	21	26	26	23	24
Canada Revenue Agency	...	9	9	9	9	9	10	9	13	14
Canada Science and Technology Museum	24	23	24	26	29	30	34	44	28	28
Canadian International Development Agency	14	15	17	16	17	21	22	24	26	26
Canadian Food Inspection Agency	30	30	32	37	38	54	47	45	53	49
Canadian Institutes of Health Research	...	...	15	22	33	40	45	54	53	50
Canadian Museum of Civilization	55	54	55	58	64	83	127	127	90	74
Canadian Museum of Nature	25	23	23	26	28	30	31	30	59	62
Canadian Space Agency	55	86	55	174	162	162	105	112	140	158
Environment Canada	404	369	419	427	506	508	533	506	555	529
Finance	20	22	26	25	28	29	28	31	29	29
Fisheries and Oceans Canada	196	271	277	327	307	348	280	276	265	259
Health Canada	170	174	209	193	269	297	280	258	269	291
Industry Canada	99	108	100	90	107	102	98	110	120	124
International Development Research Centre	41	45	48	43	39	38	42	42	45	47
Library and Archives Canada	...	...	...	...	...	...	...	80	85	78
National Defence	164	163	193	175	142	188	205	246	237	171
National Gallery of Canada	46	49	42	44	45	51	54	59	57	57
National Research Council	394	403	456	506	570	645	643	656	587	638
Natural Resources Canada	347	334	343	374	455	449	456	458	436	419
Natural Sciences and Engineering Research Council	19	22	25	29	35	39	38	42	46	45
Parks Canada Agency	...	80	65	87	93	99	101	107	107	106
Public Health Agency of Canada	...	...	...	...	...	...	...	38	51	39
Social Development Canada	...	...	...	...	...	...	4	10	13	16
Social Sciences and Humanities Research Council	9	11	12	16	18	20	23	25	25	25
Statistics Canada	400	437	461	575	726	579	581	609	749	794
Transport Canada	7	8	6	7	11	15	15	13	12	10
Treasury Board	34	37	44	47	57	47	44	32	33	34
<i>Total of Major Departments*</i>	<i>3,119</i>	<i>3,303</i>	<i>3,513</i>	<i>3,877</i>	<i>4,348</i>	<i>4,409</i>	<i>4,433</i>	<i>4,616</i>	<i>4,799</i>	<i>4,808</i>
Other	232	152	145	166	207	221	146	69	66	73
Total*	3,351	3,455	3,658	4,043	4,555	4,630	4,579	4,685	4,865	4,881

* Due to rounding, components may not add to the totals.

1. Represent departments and agencies with the highest expenditures over the last three years.

Table 11 Federal research and experimental development (R&D) spending by major¹ department or agency, 1997/1998 to 2006/2007

Department or agency	1997/ 1998	1998/ 1999	1999/ 2000	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004 ^t	2004/ 2005 ^t	2005/ 2006 ^p	2006/ 2007 ^p
	in millions of dollars									
Agriculture and Agri-Food Canada	340	335	370	354	329	267	252	247	259	233
Atlantic Canada Opportunities Agency	7	29	27	27	14	51	63	101	63	63
Atomic Energy of Canada Limited	174	135	132	136	178	147	179	148	182	201
Bank of Canada	11	11	13	12	13	25	28	28	26	28
Canada Economic Development (Québec Regions)	22	23	12	10	17	25	28	45	54	33
Canadian Food Inspection Agency	13	11	10	13	12	19	17	15	19	18
Canadian Foundation for Innovation	2	31	118	188	239	332	365	271	444	443
Canadian Institutes of Health Research	...	...	304	384	522	622	687	749	757	771
Canadian International Development Agency	49	49	50	57	56	53	62	85	64	69
Canadian Space Agency	224	337	300	298	317	309	256	263	322	353
Environment Canada ²	127	116	196	144	222	207	264	209	230	219
Fisheries and Oceans Canada	78	109	110	130	123	140	71	74	80	78
Genome Canada	...	...	...	...	34	62	86	85	93	62
Health Canada	65	54	55	65	102	105	103	56	57	57
Industry Canada	345	274	239	288	503	371	376	327	375	296
International Development Research Centre	64	67	71	76	65	67	66	82	89	93
National Defence	264	262	294	274	281	261	282	296	310	282
National Research Council	470	499	530	591	644	718	699	691	627	680
Natural Resources Canada ³	351	345	376	388	335	285	420	378	305	293
Natural Sciences and Engineering Research Council	393	443	481	500	517	573	638	706	760	774
Public Health Agency of Canada	...	...	...	...	...	...	...	35	39	30
Social Sciences and Humanities Research Council	65	68	92	105	325 ⁴	148	402 ⁵	444 ⁶	490 ⁷	486 ⁷
Statistics Canada	11	12	13	13	16	19	20	21	18	20
Western Economic Diversification Canada	7	13	24	17	30	26	25	28	18	18
<i>Total of Major Departments*</i>	<i>3,080</i>	<i>3,222</i>	<i>3,819</i>	<i>4,069</i>	<i>4,894</i>	<i>4,833</i>	<i>5,385</i>	<i>5,382</i>	<i>5,678</i>	<i>5,595</i>
Other	298	355	71	82	95	94	77	72	73	68
Total*	3,379	3,578	3,890	4,150	4,989	4,927	5,462	5,455	5,751	5,663

* Due to rounding, components may not add to the totals.

1. Represent departments and agencies with the highest expenditures over the last three years.

2. Environment Canada resources include large one-time grants and contributions to initiatives outside of the department which did not result in increases in departmental expenditures (\$60M for Climate and Atmospheric Sciences in 1999/2000, \$50M for the Sustainable Development Technology Fund in 2001/2002, \$50M for the Canadian Foundation for Climate and Atmospheric Sciences and \$125M for the Sustainable Development Technology Fund in 2003/2004).

3. New program structures combined with stricter interpretation of the definitions of R&D and RSA, have led to a significant change in Natural Resources Canada's reporting of resources as compared to previous years (effective as of 2001/2002).

4. Includes \$200 million for indirect costs of university research.

5. Includes \$225 million for indirect costs of university research.

6. Includes \$245 million for indirect costs of university research.

7. Includes \$260 million for indirect costs of university research.

Table 12 Federal intramural research and experimental development (R&D) spending by major¹ department or agency, 1997/1998 to 2006/2007

Department or agency	1997/ 1998	1998/ 1999	1999/ 2000	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004 ^f	2004/ 2005 ^f	2005/ 2006 ^p	2006/ 2007 ^p
in millions of dollars										
Agriculture and Agri-Food Canada	338	332	351	339	318	246	238	236	231	231
Atomic Energy of Canada Limited	154	114	123	128	168	136	168	141	172	190
Bank of Canada	11	11	13	12	13	25	28	28	26	28
Canada Economic Development (Québec Regions)	2	2	3	2	4	4	5	9	11	7
Canada Mortgage and Housing Corporation	4	6	7	8	5	6	7	7	7	8
Canadian Food Inspection Agency	13	11	10	13	12	19	17	15	18	18
Canadian Foundation for Innovation	2	3	4	5	8	7	10	8	9	13
Canadian Institutes of Health Research	...	...	15	21	32	39	45	53	53	49
Canadian Space Agency	49	81	51	166	152	154	95	101	128	143
Environment Canada	106	93	115	125	147	182	187	182	200	190
Fisheries and Oceans Canada	75	105	108	128	119	138	68	72	77	76
Health Canada	40	39	43	41	72	80	75	51	49	51
Industry Canada	38	39	39	42	48	49	43	44	51	48
International Development Research Centre	27	28	38	36	31	27	28	28	30	32
National Defence	140	142	173	154	139	161	167	202	223	151
National Gallery of Canada	9	10	9	9	9	10	11	12	11	11
National Research Council	340	349	389	442	496	570	564	554	495	549
Natural Resources Canada ²	309	303	307	334	243	233	231	213	233	224
Natural Sciences and Engineering Research Council	17	20	22	25	31	35	33	36	40	39
Public Health Agency of Canada	...	...	...	...	...	...	...	23	28	21
Social Sciences and Humanities Research Council	5	6	7	8	9	12	14	15	15	14
Statistics Canada	11	12	14	13	16	19	20	21	18	20
<i>Total of Major Departments*</i>	<i>1,690</i>	<i>1,707</i>	<i>1,836</i>	<i>2,054</i>	<i>2,071</i>	<i>2,151</i>	<i>2,052</i>	<i>2,048</i>	<i>2,126</i>	<i>2,110</i>
Other	30	36	23	26	31	39	31	36	32	35
Total*	1,720	1,743	1,859	2,080	2,102	2,190	2,083	2,084	2,162	2,145

* Due to rounding, components may not add to the totals.

1. Represent departments and agencies with the highest expenditures over the last three years.
2. New program structures combined with stricter interpretation of the definitions of R&D and RSA, have led to a significant change in Natural Resources Canada's reporting of resources as compared to previous years (effective as of 2001/2002).

Table 13 Federal spending on related scientific activities (RSA) by major¹ department or agency, 1997/1998 to 2006/2007

Department or agency	1997/ 1998	1998/ 1999	1999/ 2000	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004 ^r	2004/ 2005 ^r	2005/ 2006 ^p	2006/ 2007 ^p
in millions of dollars										
Agriculture and Agri-Food Canada	19	17	16	9	8	53	82	94	108	108
Bank of Canada	30	34	29	30	35	42	41	40	44	46
Canada Mortgage and Housing Corporation	13	17	21	24	18	19	22	23	19	20
Canada Revenue Agency	...	9	9	9	9	9	10	9	13	14
Canadian Food Inspection Agency	17	19	22	24	26	35	30	30	35	32
Canadian International Development Agency	255	265	285	302	331	299	304	330	310	308
Canada Science & Technology Museum	24	23	24	26	29	30	34	44	28	28
Canadian Museum of Civilization	50	50	50	53	59	77	122	121	85	68
Canadian Museum of Nature	24	21	21	23	26	28	28	27	55	59
Canadian Space Agency	6	5	5	12	14	12	13	13	14	17
Environment Canada	326	312	342	335	404	366	512	466	402	383
Finance	20	22	26	25	28	29	28	31	29	29
Fisheries and Oceans Canada	126	172	178	237	196	222	212	216	200	196
Foreign Affairs and International Trade Canada	58	49	54	45	48	48	45	31	31	31
Health Canada	145	150	180	164	210	236	229	229	247	260
Industry Canada	62	69	62	48	185	53	59	99	74	81
International Development Research Centre	14	17	11	8	11	20	23	26	28	29
Library and Archives Canada	...	...	...	...	...	...	...	83	88	80
National Defence	47	41	41	41	34	97	121	134	120	131
National Gallery of Canada	37	39	34	35	36	41	43	47	45	45
National Research Council	55	55	66	64	74	75	79	102	93	90
Natural Resources Canada ²	45	41	45	49	219	226	232	254	209	202
Natural Sciences and Engineering Research Council	43	56	69	68	71	80	95	102	110	117
Parks Canada Agency	...	81	66	89	94	100	102	109	108	108
Public Health Agency of Canada	...	...	...	...	...	...	...	26	36	30
Social Development Canada	...	...	...	...	...	...	10	10	14	20
Social Sciences and Humanities Research Council	31	36	35	40	37	40	58	79	87	99
Statistics Canada	389	426	448	563	711	560	562	589	732	775
<i>Total of Major Departments*</i>	<i>1,870</i>	<i>2,062</i>	<i>2,182</i>	<i>2,367</i>	<i>2,967</i>	<i>2,842</i>	<i>3,138</i>	<i>3,396</i>	<i>3,396</i>	<i>3,439</i>
Other	260	162	180	190	213	245	165	84	81	84
Total*	2,130	2,224	2,362	2,557	3,180	3,087	3,303	3,480	3,477	3,523

* Due to rounding, components may not add to the totals.

1. Represent departments and agencies with the highest expenditures over the last three years.

2. New program structures combined with stricter interpretation of the definitions of R&D and RSA, have led to a significant change in Natural Resources Canada's reporting of resources as compared to previous years (effective as of 2001/2002).

Table 14 Federal science and technology (S&T) spending by socio-economic objective, 2002/2003 to 2004/2005

Socio-economic objective	2002/2003 ^f		2003/2004 ^f		2004/2005	
	Intramural	Extramural	Intramural	Extramural	Intramural	Extramural
in millions of dollars						
Exploration and exploitation of the earth	466	83	382	123	414	98
Infrastructure and general planning of land use:						
Transport	112	28	112	33	96	34
Telecommunication	42	25	40	29	58	31
Other	162	32	162	35	145	32
Pollution and protection of the environment	359	188	393	313	396	281
Public Health	344	906	362	1,006	407	1,051
Production, distribution and rational utilization of energy	216	80	249	215	231	186
Agricultural production and technology:						
Agriculture	414	98	396	97	405	89
Fishing	141	23	172	26	168	36
Forestry	91	44	92	62	92	58
Industrial production and technology	246	685	270	810	272	797
Social structures and relationships	997	241	999	262	1,005	291
Exploration and exploitation of space	191	184	135	202	141	194
Non-oriented research	270	242	275	406	283	458
Other civil research	17	2	17	1	19	2
Defence	177	169	193	198	233	184
Other	22	353	26	368	32	429
Total S&T expenditures *	4,271¹	3,384	4,275¹	4,188	4,398¹	4,250

* Due to rounding, components may not add to the totals.

1. Non-program (indirect costs) are excluded.

Table 15 Federal research and experimental development (R&D) spending by socio-economic objective, 2002/2003 to 2004/2005

Socio-economic objective	2002/2003 ^f		2003/2004 ^f		2004/2005	
	Intramural	Extramural	Intramural	Extramural	Intramural	Extramural
in millions of dollars						
Exploration and exploitation of the earth	141	59	85	75	98	55
Infrastructure and general planning of land use:						
Transport	65	25	56	19	53	27
Telecommunication	37	24	35	27	43	30
Other	39	28	38	31	38	28
Pollution and protection of the environment	174	141	179	171	181	155
Public Health	186	866	196	960	203	988
Production, distribution and rational utilization of energy	214	75	245	210	199	181
Agricultural production and technology:						
Agriculture	287	90	275	86	269	79
Fishing	55	16	42	23	44	26
Forestry	74	41	72	56	71	49
Industrial production and technology	189	657	189	778	174	732
Social structures and relationships	61	149	60	170	62	190
Exploration and exploitation of space	179	179	121	197	125	190
Non-oriented research	202	213	206	376	208	428
Other civil research	14	2	14	1	15	2
Defence	152	100	157	116	191	94
Other	6	72	6	82	10	119
Total S&T expenditures *	2,075¹	2,737	1,976¹	3,379	1,983¹	3,371

* Due to rounding, components may not add to the totals.

1. Non-program (indirect costs) are excluded.

174

44

92

62

92

58

Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- ^p preliminary
- ^r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- ^E use with caution
- F too unreliable to be published

This publication was prepared by **Karim El Hassani** under the direction of **Lloyd Lizotte**, Subject Matter Manager, Science and Technology Surveys Section, Science, Innovation and Electronic Information Division.

<http://www.statcan.ca:8096/bsolc/english/bsolc?catno=88-001-X>

Current publications of the Science and Technology Surveys section include:

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

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

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

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

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