



Service Bulletin

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## Estimates of total spending on research and development in the health field in Canada, 1988 to 2005

Research and development (R&D) is a measure of a country's economic prosperity. Recently, our readers have expressed interest in the health field. How much R&D is Canada performing in the health field and who is funding this research? A methodology has been devised in order to estimate how much of the Gross Domestic Expenditures on R&D (GERD) are relevant to Health R&D. This service bulletin presents details of expenditures on health R&D performance and funding.

### Highlights

- ▶ R&D in the health field has gained importance in Canada in the past several years. Preliminary estimates of the gross expenditures on health R&D in Canada was \$6.0 billion for 2005. This reflects an increase of 7% (\$379 million) over 2004 (table 1).
- ▶ As a percentage of the 2005 GERD, health R&D represents 23% whereas ten years ago, it represented just 16%. When compared to expenditures per capita, in 2005 Canada will spend \$184 dollars per person on health R&D while only \$75 was spent per person in 1995 (table 1).
- ▶ The higher education sector is, by far, the largest performer of health R&D. In 2005, it showed an increase of \$336 million (10%). Compared to expenditures in this sector in 1995 (\$1,428 million), they have more than doubled (\$3,681 million) in 2005. This sector includes Canadian universities and teaching hospitals. In 2005, it performed 62% (\$3.7 billion) of total health GERD. The second largest performer is the business enterprise sector representing 33% (\$2.0 billion) of health GERD in 2005 (table 2, chart 2).
- ▶ The largest funders of health GERD were the business enterprise sector and the higher education sector with a contribution of about \$1.6 billion each in 2005. They were followed by the federal government sector, which contributed \$1.2 billion (table 2).

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- ▶ Table 2 examines the data historically. Health GERD data by performing sector reflects an average annual increase of 13% in the business sector, 11% in the federal government sector and 10% in the higher education sector over the past 10 years. The major funders of health GERD; business enterprises and higher education sectors respectively show an 11% and 8% average annual increase over the same period.
- ▶ When examining the regional distribution of health GERD, data are only available for the higher education sector (table 3). We see that Ontario and Quebec are the provinces where most activities are taking place. This is due primarily to the large number of universities and teaching hospitals located in these two provinces.

## Definitions:

R&D is defined as creative work undertaken on a systematic basis in order to increase the stock of scientific and technical knowledge and the use of this knowledge to devise new applications. Expenditures on R&D are an important indicator of the effort devoted to creative activity in science and technology.

Gross Domestic Expenditures on Research and Development (GERD) represent all R&D performed in a country's national territory during a given year. The GERD includes R&D performed within a country and funded from abroad but excludes payments sent abroad for R&D performed in other countries.

## Methodology:

**Federal government sector:** The Health GERD figures include scientific activities aimed at protecting, promoting and restoring human health, broadly interpreted to include health aspects of nutrition and food hygiene. They range from preventative medicine, including all aspects of medical and surgical treatment, both for individuals and groups, and the provision of hospital and home care, to social medicine and paediatric and geriatric research.

Federal government R&D expenditures in the health field from 1988 until 2005<sup>P</sup> are derived from the survey of Federal Science Expenditures and Personnel. Data were collected from responses to a question on health as a socio-economic objective for Federal R&D spending. Federal government data are published in Catalogue No. 88-204-XIE.

**Provincial government:** R&D expenditures in the health field are based on values from provincial science surveys which identify their intramural R&D expenditures in the health socio-economic objective field.

**Business enterprise sector:** The Pharmaceutical and medicine manufacturing industry North American Industry Classification System (NAICS) 325410 is the most significant source of health R&D in the Business enterprise sector. Other NAICS industries which are prevalent in Health R&D include: Pharmaceuticals and Pharmacy supplies wholesale- Distributors (414510), Testing Laboratories (541380), Research and Development in the Physical, Engineering and Life Sciences (541710) and Health Care and Social Assistance (NAICS 62) industries. Data originate from the R&D in Canadian Industry Survey conducted by Statistics Canada.

**The higher education sector:** Health R&D statistics are derived from Statistics Canada's revised higher education R&D estimates (STC Catalogue 88-001 Vol. 29, No. 6) which identify R&D performed in the health field. The revised estimates are based on the assumption that the total R&D expenditures are equal to the sum of: a) sponsored research expenditures (including all teaching hospitals); b) indirect expenditures on sponsored research; c) a value for the fraction of faculty members' time assumed to be devoted to sponsored and non-sponsored research; and d) indirect expenditures related to faculty members' time on research. Statistics Canada uses Canadian Association of University Business Officers (CAUBO) and Centre for Education Statistics data in order to compile the estimates.

Due to the nature of the estimation system for Higher Education R&D (HERD) statistics, higher education is the only sector of performance where a regional breakdown of health R&D is available (see Table 4).

**Private non-profit sector:** Values used for estimating health R&D expenditures in the private non-profit (PNP) sector are those identified as health-related in survey responses. Please contact SIEID for further information on the PNP sector (see last page for coordinates).

**Table 1 Gross domestic expenditures on R&D in the health field, compared to total GERD, 1988 to 2005**

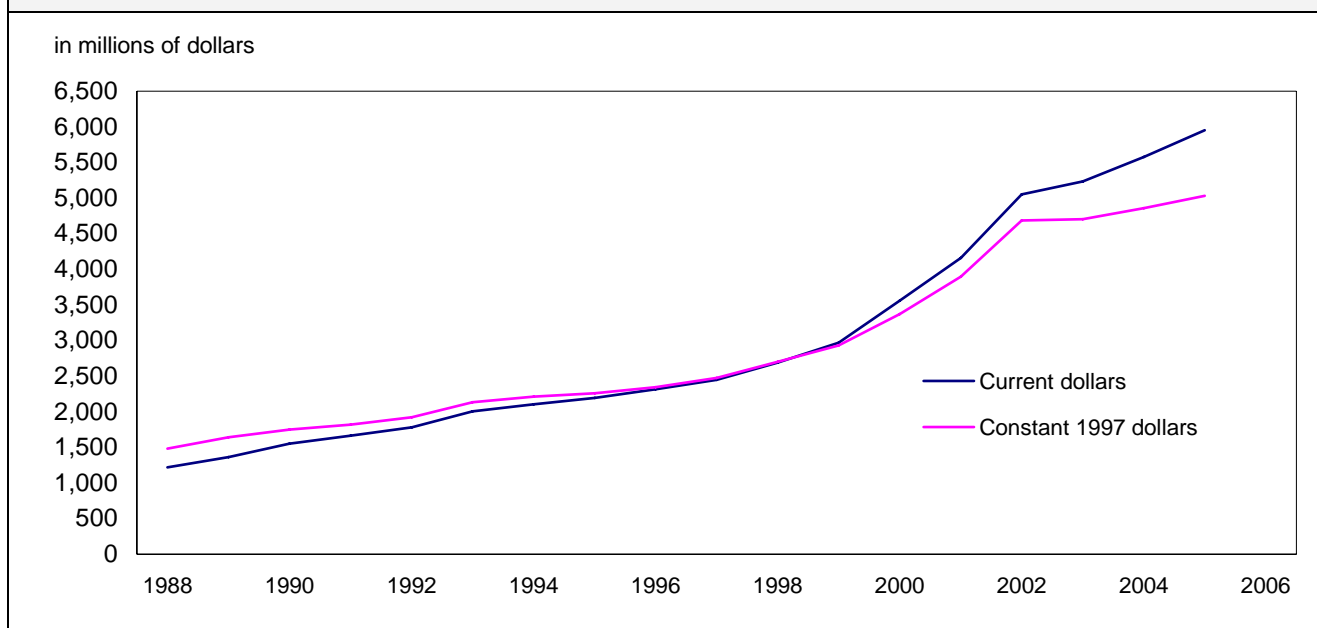
Year	Health R&D		Population <sup>1</sup> in thousands	Health R&D/Capita dollars	GERD <sup>2</sup>		Health R&D/GERD percent
	in millions of dollars	in millions of 1997 dollars <sup>3</sup>			in millions of dollars	in millions of 1997 dollars <sup>3</sup>	
1988	1,221	1,482	26,795	46	9,045	10,977	13.5
1989	1,365	1,585	27,282	50	9,516	11,052	14.3
1990	1,551	1,747	27,698	56	10,260	11,554	15.1
1991	1,665	1,820	28,031	59	10,767	11,767	15.5
1992	1,783	1,923	28,367	63	11,338	12,231	15.7
1993	2,006	2,134	28,682	70	12,184	12,962	16.5
1994	2,105	2,213	28,999	73	13,342	14,029	15.8
1995	2,196	2,259	29,302	75	13,754	14,150	16.0
1996	2,317	2,345	29,611	78	13,816	13,984	16.8
1997 <sup>f</sup>	2,447	2,447	29,907	82	14,634	14,634	16.7
1998 <sup>f</sup>	2,692	2,703	30,157	89	16,088	16,153	16.7
1999 <sup>f</sup>	2,967	2,929	30,404	98	17,637	17,411	16.8
2000 <sup>f</sup>	3,560	3,374	30,689	116	20,635	19,559	17.3
2001 <sup>f</sup>	4,159	3,898	31,021	134	23,206	21,749	17.9
2002 <sup>f</sup>	5,050	4,685	31,373	161	23,382	21,690	21.6
2003 <sup>f</sup>	5,234	4,703	31,669	165	23,992	21,556	21.8
2004 <sup>f</sup>	5,574	4,860	31,974	174	25,259	22,022	22.1
2005 <sup>p</sup>	5,953	5,032	32,271	184	26,268	22,205	22.7

1. CANSIM II, table 051-0001.

2. Estimates of Canadian Research and Development Expenditures (GERD), Canada 1994 to 2005 and by Province 1994 to 2003, no. 88F0006XIE No. 020, December 2005. CANSIM II, table 358-0001.

3. CANSIM II, table 384-0036.

**Chart 1 Gross domestic expenditures on R&D in the health field, in current and in constant 1997 dollars, 1988 to 2005**



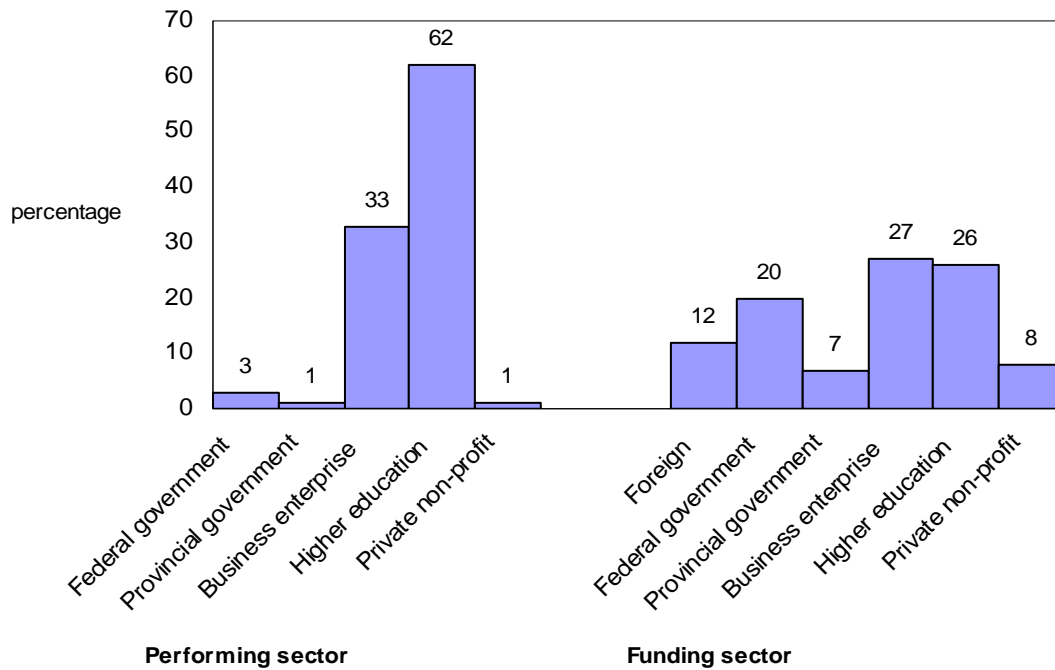
**Table 2 Gross domestic expenditures on R&D in the health field, by performing sector and funding sector, 1988 to 2005**

Year	Federal government	Provincial government	Business enterprise	Higher education <sup>1</sup>	Private non-profit	Foreign	Total
in millions of dollars							
Performing sector							
1988	41	17	196	895	72	...	<b>1,221</b>
1989	50	22	233	980	80	...	<b>1,365</b>
1990	64	26	321	1,049	91	...	<b>1,551</b>
1991	55	29	324	1,156	101	...	<b>1,665</b>
1992	56	33	405	1,229	60	...	<b>1,783</b>
1993	53	29	490	1,367	67	...	<b>2,006</b>
1994	57	31	561	1,382	74	...	<b>2,105</b>
1995	63	33	593	1,428	79	...	<b>2,196</b>
1996	76	32	702	1,430	77	...	<b>2,317</b>
1997	78	32	749	1,516	72	...	<b>2,447</b>
1998	87	36	874	1,628	67	...	<b>2,692</b>
1999	103	32	961	1,823	48	...	<b>2,967</b>
2000 <sup>f</sup>	116	42	1,254	2,104	44	...	<b>3,560</b>
2001 <sup>f</sup>	152	42	1,542	2,383	40	...	<b>4,159</b>
2002 <sup>f</sup>	186	42	1,826	2,956	40	...	<b>5,050</b>
2003 <sup>f</sup>	196	44	1,856	3,086	52	...	<b>5,234</b>
2004 <sup>f</sup>	182	45	1,949	3,345	53	...	<b>5,574</b>
2005 <sup>p</sup>	171	48	1,999	3,681	54	...	<b>5,953</b>
Funding sector							
1988	255	95	198	500	138	35	<b>1,221</b>
1989	282	129	251	532	143	28	<b>1,365</b>
1990	334	145	333	558	152	29	<b>1,551</b>
1991	322	147	367	616	173	40	<b>1,665</b>
1992	317	149	442	670	138	67	<b>1,783</b>
1993	351	146	533	713	178	85	<b>2,006</b>
1994	354	148	581	721	200	101	<b>2,105</b>
1995	373	153	578	753	206	133	<b>2,196</b>
1996	347	143	632	754	239	202	<b>2,317</b>
1997	353	168	703	786	245	192	<b>2,447</b>
1998	381	171	794	864	244	238	<b>2,692</b>
1999	477	195	837	907	242	309	<b>2,967</b>
2000 <sup>f</sup>	560	233	1,054	1,000	285	428	<b>3,560</b>
2001 <sup>f</sup>	731	273	1,233	1,023	330	569	<b>4,159</b>
2002 <sup>f</sup>	952	307	1,427	1,283	386	695	<b>5,050</b>
2003 <sup>f</sup>	1,029	364	1,466	1,300	391	684	<b>5,234</b>
2004 <sup>f</sup>	1,084	391	1,547	1,409	423	720	<b>5,574</b>
2005 <sup>p</sup>	1,162	427	1,609	1,551	464	740	<b>5,953</b>

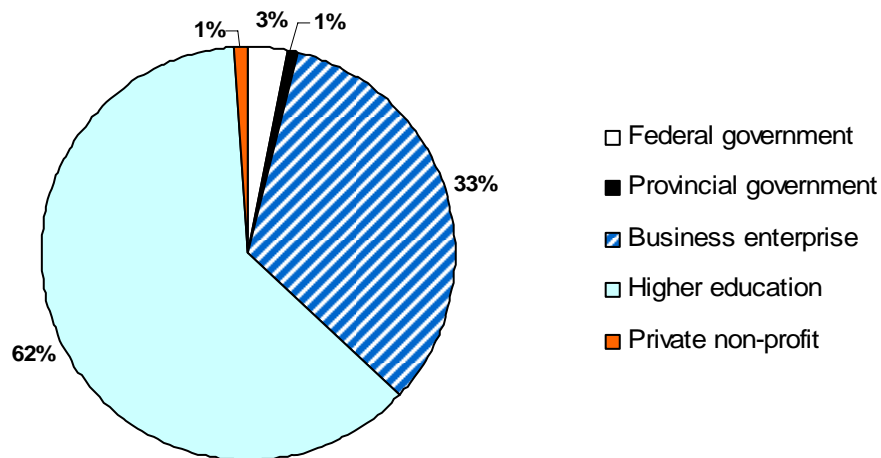
1. Includes teaching hospitals.

As mentioned in the methodology section, higher education R&D expenditures are estimated by Statistics Canada using financial data collected through the CAUBO survey and the survey of University and College Academic Staff System conducted by the Centre for Education Statistics of Statistics Canada.

**Chart 2 Gross domestic expenditures on R&D in the health field, by performer and funder, 2005**



**Chart 3 Gross domestic expenditures on R&D in the health field, by performer, 2005**



The estimates are made at the university level. This allows us to make available provincial statistics for the higher education sector. Because estimates are made by field of science, health sciences being one of the fields, we are able to identify Health R&D performed by the higher education sector by province.

This provides interesting detail as the higher education sector is the largest performer of health R&D (42% in 2003). As with all provincial R&D data published by Science, Innovation and Electronic Information Division (SIED), 2003 data are the most recent data available.

The following 2 tables show regional distribution of R&D in the health field performed by the higher education sector.

<b>Table 3 Higher education sector GERD in the health field by funder and province, 2003</b>							
Province	Funding sector						Total
	Federal government	Provincial government	Business enterprise	Higher education <sup>1</sup>	Private non-profit	Foreign	
in millions of dollars							
Newfoundland and Labrador	8.5	0.3	6.1	19.8	1.3	0.0	<b>36.0</b>
Prince Edward Island	1.5	0.2	0.0	1.7	0.0	0.0	<b>3.4</b>
Nova Scotia	18.6	2.1	15.3	50.9	20.0	0.4	<b>107.3</b>
New Brunswick	3.0	1.1	0.0	6.0	0.0	0.0	<b>10.1</b>
Quebec	282.2	100.1	60.5	332.6	94.6	6.1	<b>876.1</b>
Ontario	293.7	107.1	135.2	597.4	163.8	17.4	<b>1,314.6</b>
Manitoba	22.4	4.7	4.3	35.4	15.6	0.7	<b>83.1</b>
Saskatchewan	15.8	8.9	0.0	33.3	7.0	0.3	<b>65.3</b>
Alberta	85.8	54.7	27.3	132.1	27.7	2.4	<b>330.0</b>
British Columbia	82.2	26.2	18.6	90.6	39.1	3.0	<b>259.7</b>
<b>Canada<sup>2</sup></b>	<b>813.7</b>	<b>305.4</b>	<b>267.3</b>	<b>1,299.8</b>	<b>369.1</b>	<b>30.3</b>	<b>3,085.6</b>

1. Includes teaching hospitals.

2. Includes Nunavut, the Northwest Territories and Yukon.

<b>Table 4 Higher education sector GERD in the health field by provincial population, 2003</b>			
Province	Population <sup>1</sup>	Health R&D in the higher education sector	Health R&D in the higher education sector / capita
	in thousands	in millions of dollars	in dollars
Newfoundland and Labrador	519	36	69
Prince Edward Island	137	4	29
Nova Scotia	936	107	114
New Brunswick	751	10	13
Quebec	7,494	876	117
Ontario	12,260	1,315	107
Manitoba	1,162	83	71
Saskatchewan	995	65	65
Alberta	3,160	330	104
British Columbia	4,155	260	63
<b>Canada<sup>2</sup></b>	<b>31,669</b>	<b>3,086</b>	<b>97</b>

1. CANSIM, table 051-0001.

2. Includes Nunavut, the Northwest Territories and Yukon.

## Historical tables

In this service bulletin, we publish the Health GERD matrix from 1994 to 2005, however the tables are available back to 1988. If you require 1988 to 1993 matrix's, please contact us and the information will be given, free of charge.

As with the Canadian GERD, we display the Health GERD as a matrix of performing and funding sectors. Based on what is reported by the performer, the matrix illustrates how much R&D in the Health field each sector performed over a 12 month period, and also which sector financed the R&D that was performed.

<b>Gross domestic expenditures on R&amp;D (GERD) in the health field, 1994 to 2005</b>						
Funding sector	Performing sector					Total <sup>1</sup>
	Federal government	Provincial governments	Business enterprise	Higher education <sup>2</sup>	Private non-profit	
in millions of dollars						
<b>1994</b>						
Federal government	57	0	6	283	8	<b>354</b>
Provincial governments	0	31	8	94	15	<b>148</b>
Business enterprise	0	0	460	109	12	<b>581</b>
Higher education <sup>2</sup>	0	0	0	721	0	<b>721</b>
Private non-profit	0	0	0	166	34	<b>200</b>
Foreign	0	0	87	9	5	<b>101</b>
<b>Total<sup>1</sup></b>	<b>57</b>	<b>31</b>	<b>561</b>	<b>1,382</b>	<b>74</b>	<b>2,105</b>
<b>1995</b>						
Federal government	63	0	9	294	7	<b>373</b>
Provincial governments	0	33	8	97	15	<b>153</b>
Business enterprise	0	0	458	105	15	<b>578</b>
Higher education <sup>2</sup>	0	0	0	753	0	<b>753</b>
Private non-profit	0	0	0	169	37	<b>206</b>
Foreign	0	0	118	10	5	<b>133</b>
<b>Total<sup>1</sup></b>	<b>63</b>	<b>33</b>	<b>593</b>	<b>1,428</b>	<b>79</b>	<b>2,196</b>
<b>1996</b>						
Federal government	76	0	10	255	6	<b>347</b>
Provincial governments	0	32	6	89	16	<b>143</b>
Business enterprise	0	0	505	118	9	<b>632</b>
Higher education <sup>2</sup>	0	0	0	754	0	<b>754</b>
Private non-profit	0	0	0	200	39	<b>239</b>
Foreign	0	0	181	14	7	<b>202</b>
<b>Total<sup>1</sup></b>	<b>76</b>	<b>32</b>	<b>702</b>	<b>1,430</b>	<b>77</b>	<b>2,317</b>
<b>1997</b>						
Federal government	78	0	8	261	6	<b>353</b>
Provincial governments	0	32	7	111	18	<b>168</b>
Business enterprise	0	0	559	134	10	<b>703</b>
Higher education <sup>2</sup>	0	0	0	786	0	<b>786</b>
Private non-profit	0	0	0	208	37	<b>245</b>
Foreign	0	0	175	16	1	<b>192</b>
<b>Total<sup>1</sup></b>	<b>78</b>	<b>32</b>	<b>749</b>	<b>1,516</b>	<b>72</b>	<b>2,447</b>

1. As data are not provided specifically by "Health Field", this is STC's best estimate.

2. Includes teaching hospitals.

<b>Gross domestic expenditures on R&amp;D (GERD) in the health field, 1994 to 2005 (continued)</b>						
Funding sector	Performing sector					Total <sup>1</sup>
	Federal government	Provincial governments	Business enterprise	Higher education <sup>2</sup>	Private non-profit	
in millions of dollars						
<b>1998</b>						
Federal government	87	0	9	275	10	<b>381</b>
Provincial governments	0	36	8	111	16	<b>171</b>
Business enterprise	0	0	641	145	8	<b>794</b>
Higher education <sup>2</sup>	0	0	0	864	0	<b>864</b>
Private non-profit	0	0	0	213	31	<b>244</b>
Foreign	0	0	216	20	2	<b>238</b>
<b>Total<sup>1</sup></b>	<b>87</b>	<b>36</b>	<b>874</b>	<b>1,628</b>	<b>67</b>	<b>2,692</b>
<b>1999</b>						
Federal government	103	0	6	362	6	<b>477</b>
Provincial governments	0	32	6	145	12	<b>195</b>
Business enterprise	0	0	665	167	5	<b>837</b>
Higher education <sup>2</sup>	0	0	0	907	0	<b>907</b>
Private non-profit	0	0	0	219	23	<b>242</b>
Foreign	0	0	284	23	2	<b>309</b>
<b>Total<sup>1</sup></b>	<b>103</b>	<b>32</b>	<b>961</b>	<b>1,823</b>	<b>48</b>	<b>2,967</b>
<b>2000</b>						
Federal government	116	0	8	433	3	<b>560</b>
Provincial governments	0	42	4	176	11	<b>233</b>
Business enterprise	0	0	835	211	8	<b>1,054</b>
Higher education <sup>2</sup>	0	0	0	1,000	0	<b>1,000</b>
Private non-profit	0	0	0	264	21	<b>285</b>
Foreign	0	0	407	20	1	<b>428</b>
<b>Total<sup>1</sup></b>	<b>116</b>	<b>42</b>	<b>1,254</b>	<b>2,104</b>	<b>44</b>	<b>3,560</b>
<b>2001</b>						
Federal government	152	0	12	564	3	<b>731</b>
Provincial governments	0	42	5	214	12	<b>273</b>
Business enterprise	0	0	991	236	6	<b>1,233</b>
Higher education <sup>2</sup>	0	0	0	1,023	0	<b>1,023</b>
Private non-profit	0	0	0	312	18	<b>330</b>
Foreign	0	0	534	34	1	<b>569</b>
<b>Total<sup>1</sup></b>	<b>152</b>	<b>42</b>	<b>1,542</b>	<b>2,383</b>	<b>40</b>	<b>4,159</b>

1. As data are not provided specifically by "Health Field", this is STC's best estimate.

2. Includes teaching hospitals.



<b>Gross domestic expenditures on R&amp;D (GERD) in the health field, 1994 to 2005 (concluded)</b>						
Funding sector	Performing sector					Total <sup>1</sup>
	Federal government	Provincial governments	Business enterprise	Higher education <sup>2</sup>	Private non-profit	
in millions of dollars						
<b>2002</b>						
Federal government	186	0	11	752	3	<b>952</b>
Provincial governments	0	42	2	249	14	<b>307</b>
Business enterprise	0	0	1,159	261	7	<b>1,427</b>
Higher education <sup>2</sup>	0	0	0	1,283	0	<b>1,283</b>
Private non-profit	0	0	0	371	15	<b>386</b>
Foreign	0	0	654	40	1	<b>695</b>
<b>Total<sup>1</sup></b>	<b>186</b>	<b>42</b>	<b>1,826</b>	<b>2,956</b>	<b>40</b>	<b>5,050</b>
<b>2003</b>						
Federal government	196	0	11	814	8	<b>1,029</b>
Provincial governments	0	44	2	306	12	<b>364</b>
Business enterprise	0	0	1,190	267	9	<b>1,466</b>
Higher education <sup>2</sup>	0	0	0	1,300	0	<b>1,300</b>
Private non-profit	0	0	0	369	22	<b>391</b>
Foreign	0	0	653	30	1	<b>684</b>
<b>Total<sup>1</sup></b>	<b>196</b>	<b>44</b>	<b>1,856</b>	<b>3,086</b>	<b>52</b>	<b>5,234</b>
<b>2004</b>						
Federal government	182	0	12	882	8	<b>1,084</b>
Provincial government	0	45	2	332	12	<b>391</b>
Business enterprise	0	0	1,249	289	9	<b>1,547</b>
Higher education <sup>2</sup>	0	0	0	1,409	0	<b>1,409</b>
Private non-profit	0	0	0	400	23	<b>423</b>
Foreign	0	0	686	33	1	<b>720</b>
<b>Total<sup>1</sup></b>	<b>182</b>	<b>45</b>	<b>1,949</b>	<b>3,345</b>	<b>53</b>	<b>5,574</b>
<b>2005</b>						
Federal government	171	0	12	971	8	<b>1,162</b>
Provincial government	0	48	2	365	12	<b>427</b>
Business enterprise	0	0	1,282	318	9	<b>1,609</b>
Higher education <sup>2</sup>	0	0	0	1,551	0	<b>1,551</b>
Private non-profit	0	0	0	440	24	<b>464</b>
Foreign	0	0	703	36	1	<b>740</b>
<b>Total<sup>1</sup></b>	<b>171</b>	<b>48</b>	<b>1,999</b>	<b>3,681</b>	<b>54</b>	<b>5,953</b>

1. As data are not provided specifically by "Health Field", this is STC's best estimate.

2. Includes teaching hospitals.

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

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

Current publications of the Science and Innovation 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***, 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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