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## Working Paper

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# Federal government payments to industry, 1997-1998 to 2001-2002

Science, Innovation and Electronic Information Division (SIEID)  
7-A, R.H. Coats Building, Ottawa, K1A 0T6

Telephone: 1 800 263-1136

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1997-1998 to 2001-2002**

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**Prepared by:**

Lloyd Lizotte  
Science and Innovation Surveys Section  
Science, Innovation and Electronic Information Division (SIEID)  
Statistics Canada

## Table of contents

	<b>Page</b>
<b>Introduction</b> .....	6
<b>Highlights</b> .....	6
<b>Text tables</b>	
1. Concentration of federal S&T payments among selected industries, 1997-1998 to 2001-2002.....	7
2. Concentration of federal S&T payments by major department or agency, 1997-1998 to 2001-2002 .....	9
3. Concentration of federal R&D payments among selected industries, 1997-1998 to 2001-2002 .....	10
4. Federal R&D payments by major industry, department and type, 1997-1998 to 2001-2002.....	11
5. Concentration of federal R&D payments by major department or agency, 1997-1998 to 2001-2002.....	12
6. Concentration of federal S&T payments among selected industries, by region, 2001-2002 .....	13
7. Concentration of federal R&D payments among selected industries, by region, 2001-2002.....	14
<b>Appendix I tables</b>	
1. Total federal payments to industry for S&T and R&D, by industry group, 1997-1998 to 2001-2002 .....	16
2. Total federal S&T payments to industry, by industry group, 1997-1998 to 2001-2002 .....	17
3. Total federal payments to industry for S&T contracts, by industry group, 1997-1998 to 2001-2002 .....	18
4. Total federal payments to industry for S&T grants and contributions, by industry group, 1997-1998 to 2001-2002.....	19
5. Total federal R&D payments to industry, by industry group, 1997-1998 to 2001-2002.....	20
6. Total federal payments to industry for R&D contracts, by industry group, 1997-1998 to 2001-2002.....	21
7. Total federal payments to industry for R&D grants and contributions, by industry group, 1997-1998 to 2001-2002.....	22
8. Total federal S&T payments to industry, by department or agency, 1997-1998 to 2001-2002.....	23
9. Total federal R&D payments to industry, by department or agency, 1997-1998 to 2001-2002 .....	24
10. Total federal payments to industry for S&T contracts, by department or agency, 1997-1998 to 2001-2002.....	25
11. Total federal payments to industry for R&D contracts, by department or agency, 1997-1998 to 2001-2002.....	25
12. Total federal payments to industry for S&T grants and contributions, by department or agency, 1997-1998 to 2001-2002.....	26

## Table of contents – Concluded

	<b>Page</b>
13. Total federal payments to industry for R&D grants and contributions, by department or agency, 1997-1998 to 2001-2002.....	26
14. Concentration of federal R&D payments among selected industries, by region, 1997-1998.....	27
15. Concentration of federal R&D payments among selected industries, by region, 1998-1999.....	28
16. Concentration of federal R&D payments among selected industries, by region, 1999-2000.....	29
17. Concentration of federal R&D payments among selected industries, by region, 2000-2001.....	30

### **Appendix II list**

NAICS description and code.....	32
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### **Chart**

1. Estimated relative 2001-2002 federal S&T payments for selected industries.....	8
2. Concentration of federal S&T payments by major department or agency, 2001-2002.....	8
3. Estimated relative 2001-2002 federal R&D payments for selected industries .....	10
4. Concentration of federal R&D payments by major department or agency, 2001-2002.....	12

<b>Statistical publications</b> .....	<b>52</b>
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### **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

**NOTE: Due to rounding, components may not add to totals**

## **Abbreviations**

R&D	Research and Experimental Development
S&T	Science and Technology
OECD	Organization for Economic Co-operation and Development
NAICS	North American Industry Classification System
NSE	Natural Sciences and Engineering
SSH	Social Sciences and Humanities
ACOA	Atlantic Canada Opportunities Agency
AECL	Atomic Energy of Canada Limited
CSA	Canadian Space Agency
IND	Industry Canada
NRCan	Natural Resources Canada
NDEF	National Defence
NRC	National Research Council
NSERC	Natural Sciences & Engineering Research Council

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## Introduction

This document focuses on Federal Government payments to business enterprises for S&T and R&D. This paper provides an overview of currently available data on federal government support for scientific activities by industry groups.

Departments and agencies of the federal government are asked to provide a detailed listing of the recipients of federal payments made in connection with a scientific activity. The statistics presented are derived from the results of the last five of those exercises, which covered the years 1997-1998 to 2001-2002.

Extramural payments take the form of a contract, a grant or a contribution. Contracts, normally awarded as a result of competitive bidding, provide a service or perform an activity required by a federal department or agency. Almost all of these contracts are awarded to business enterprises. A grant is an unconditional payment to a recipient and the government does not necessarily receive any goods or services as a direct result. A contribution requires an agreement between the government and recipient specifying the terms and conditions under which funds will be paid to the recipient. Payments for university and industry support programs are normally in the form of a grant or contribution.

All recipients of grants, contributions or contracts in the business enterprises sector were classified (see Appendix II) with the 2002 North American Industry Classification System (Catalogue No. 12-501-XPE). This analysis covers the natural sciences and engineering only as the values for recipients of social science payments amounted to less than 5% of the total aggregate value of federal payments to the business enterprise sector.

Scientific and technological (S&T) activities are required for the generation, dissemination or initial application of the new S&T knowledge. The central activity is scientific research and experimental development (R&D). In addition there are a number of activities closely related to R&D, termed related scientific activities (RSA). Federal government RSA in the natural sciences are: scientific data collection, information services, testing and standardization, feasibility studies, museum services and education support.

R&D is creative work undertaken on a systematic basis to increase the stock of scientific and technical knowledge and to use this knowledge in new applications. From R&D activities, carried out in Canada and other countries, will come many of the new products and processes, the new ideas and ways of looking at things that will shape our future.

## Highlights

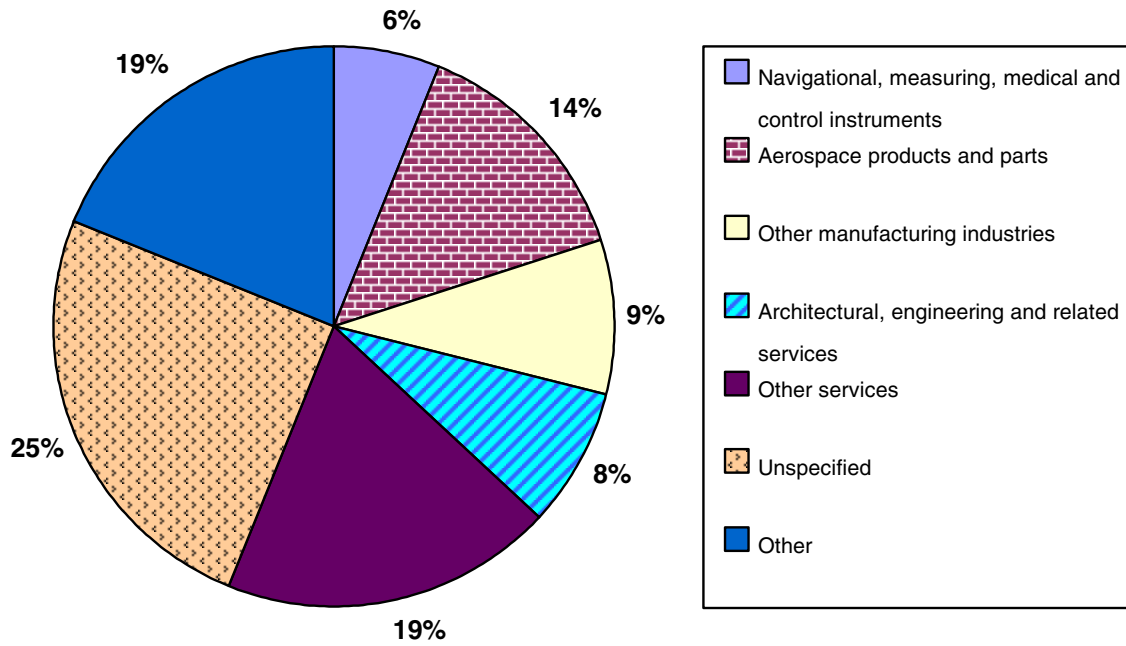
- Over the five years between 1997-1998 and 2001-2002, the Federal government distributed \$4.5 billion to business enterprises for S&T activities. More than two thirds of this amount could be distributed by industries (\$3.1 billion). The manufacturing sector obtained \$1.8 billion and the service sector received less than \$1.4 billion. More than \$1.3 billion could not be distributed by industries.
- Federal government payments are concentrated in five major industries. Aerospace products and parts, Other services, Other manufacturing industries, Architectural, engineering and related services and Navigational, measuring, medical and control instruments (see Text table 1).
- Aerospace products and parts received the largest portion of federal S&T payments. Over the course of the five years, more than \$700 million has been allocated to this industry. During the same period, Navigational, measuring, medical and control instruments and Information and cultural industries received slightly less than \$400 million and \$300 million respectively (see Table 1).
- In 2001-2002, Industry Canada accounted for 51% of the R&D payments to business enterprises, followed by the Canadian Space Agency (16%) and National Defence (12%) (see Text table 5).
- In 2001-2002, Ontario accounted for 51% of all R&D activity in Canada, with the largest concentration in Architectural, engineering and related services and Communications equipment industry. Eighty-three percent of the R&D payments to the Aerospace products and parts industry were concentrated in Quebec. This represents 48% of all R&D in this province (see Text table 7).

**Text table 1. Concentration of federal S&T payments among selected industries, 1997-1998 to 2001-2002**

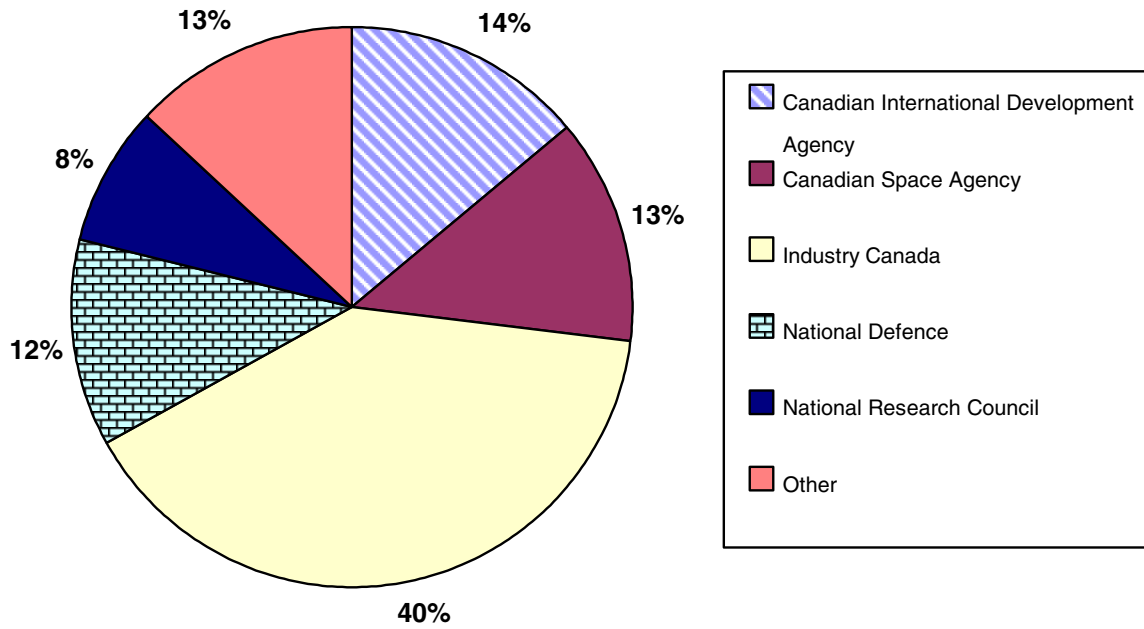
Selected industries	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	percent of payments				
Agriculture, forestry, fishing and hunting	0	0	1	1	1
Mining and oil and gas extraction	0	0	0	0	0
Utilities - Total	0	0	1	1	0
Construction	0	1	1	0	1
Machinery	1	1	1	3	5
Communications equipment	3	2	2	5	4
Navigational, measuring, medical and control instruments	3	5	23	7	6
Aerospace products and parts	19	25	8	11	14
Other manufacturing industries	10	5	12	11	9
Architectural, engineering and related services	6	5	4	9	8
Computer system design and related services	5	11	4	4	3
Scientific research and development	3	4	6	4	5
Other services	20	9	9	11	19
Unspecified	30	32	28	33	25
	in millions of dollars				
<b>Total all industries</b>	<b>867</b>	<b>920</b>	<b>901</b>	<b>813</b>	<b>1,038</b>

Source: Appendix I, Table 1.

**Chart 1. Estimated relative 2001-2002 federal S&T payments for selected industries**



**Chart 2. Concentration of federal S&T payments by major department or agency, 2001-2002**





**Text table 2. Concentration of federal S&T payments by major department or agency, 1997-1998 to 2001-2002**

Major department or agency	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	percent of total payments					percent identified by NAICS				
Atlantic Canada Opportunities Agency	1	1	2	2	1	98	96	83	92	88
Canadian Economic Development for Quebec Regions	1	0	1	1	1	77	94	73	94	81
Canadian International Development Agency	14	14	15	18	14	0	0	0	0	0
Canadian Space Agency	14	24	24	13	13	100	96	97	96	99
Environment Canada	3	4	4	4	4	63	62	52	38	25
Industry Canada	34	25	21	29	40	100	100	100	100	98
National Defence	14	13	13	14	12	51	47	38	33	64
National Research Council	9	10	10	10	8	27	28	89	82	74
Natural Resources Canada	4	4	6	4	3	95	95	98	93	96
Western Economic Diversification Canada	1	0	1	1	1	100	100	94	94	94
Other	5	5	3	4	3	82	70	88	90	83
	in millions of dollars									
<b>Total payments</b>	<b>867</b>	<b>920</b>	<b>901</b>	<b>813</b>	<b>1,038</b>	<b>70</b>	<b>68</b>	<b>72</b>	<b>67</b>	<b>75</b>

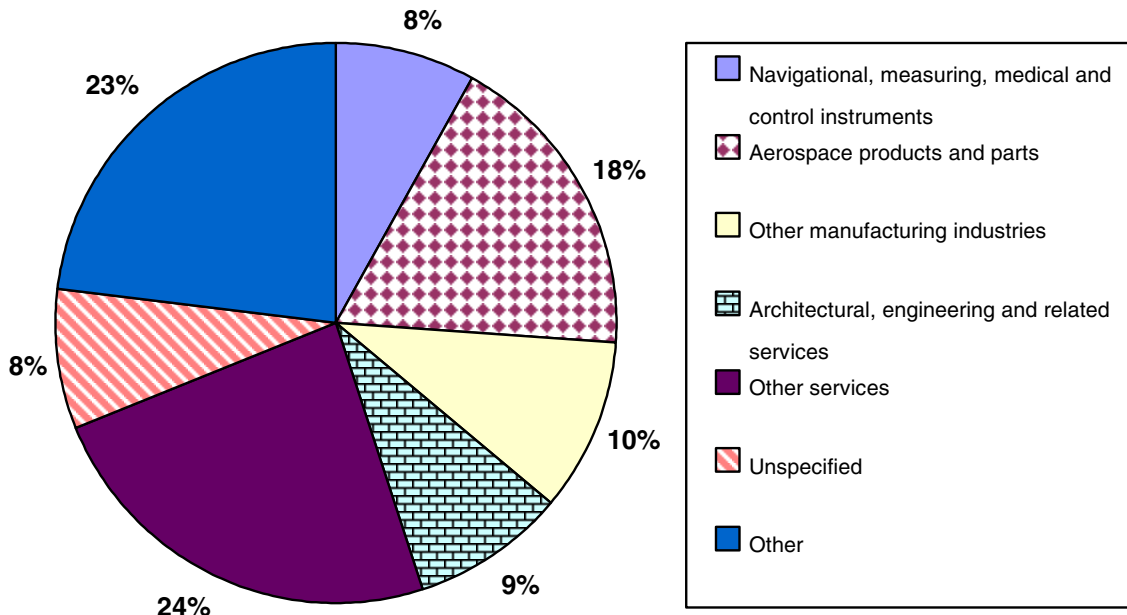
Source: Appendix I, Table 8.

**Text table 3. Concentration of federal R&D payments among selected industries, 1997-1998 to 2001-2002**

Selected industries	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	percent of payments				
Agriculture, forestry, fishing and hunting	1	0	1	0	1
Mining and oil and gas extraction	0	0	0	0	0
Utilities - Total	0	1	1	1	0
Construction	0	0	1	1	0
Machinery	1	1	2	4	7
Communications equipment	4	2	3	6	5
Navigational, measuring, medical and control instruments	3	6	29	9	8
Aerospace products and parts	23	31	9	15	18
Other manufacturing industries	13	7	14	14	10
Architectural, engineering and related services	7	5	5	11	9
Computer system design and related services	6	13	4	5	4
Scientific research and development	3	5	7	5	6
Other services	22	9	10	13	24
Unspecified	17	20	14	16	8
	in millions of dollars				
<b>Total all industries</b>	<b>697</b>	<b>745</b>	<b>717</b>	<b>621</b>	<b>825</b>

Source: Appendix I, Table 5.

**Chart 3. Estimated relative 2001-2002 federal R&D payments for selected industries**



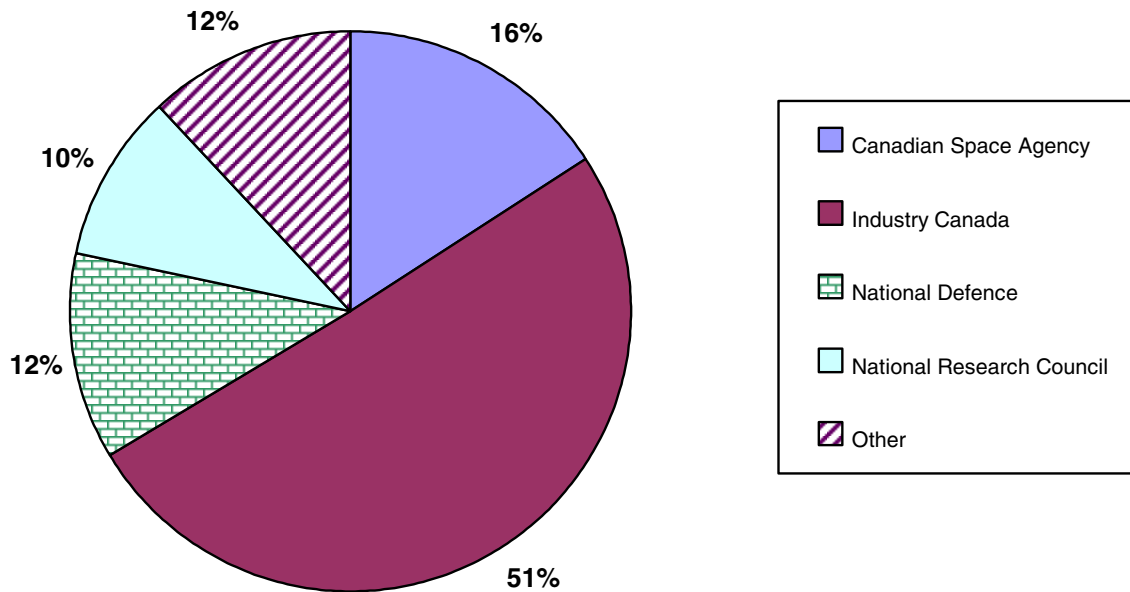
**Text table 4. Federal R&D payments by major industry, department and type, 1997-1998 to 2001-2002**

Industry	Payment	Department	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	
			in millions of dollars					percent					
Aerospace products and parts	Grants and contributions	IND	118.0	127.5	64.4	90.6	117.8	72.8	54.4	96.4	98.0	81.1	
		Other	0.3	1.5	0.6	0.4	0.4	0.2	0.7	0.8	0.4	0.3	
		<b>Total</b>	<b>118.3</b>	<b>129.0</b>	<b>65.0</b>	<b>91.0</b>	<b>118.2</b>	<b>73.0</b>	<b>55.1</b>	<b>97.2</b>	<b>98.4</b>	<b>81.4</b>	
	Contracts	CSA	40.3	104.2	0.7	0.2	2.1	24.9	44.5	1.1	0.2	1.4	
		NDEF	3.1	0.8	1.1	1.2	24.9	1.9	0.3	1.7	1.3	17.1	
		Other	0.3	0.3	0.1	0.0	0.0	0.2	0.1	0.0	0.1	0.1	
		<b>Total</b>	<b>43.7</b>	<b>105.3</b>	<b>1.9</b>	<b>1.4</b>	<b>27.0</b>	<b>27.0</b>	<b>44.9</b>	<b>2.8</b>	<b>1.6</b>	<b>18.6</b>	
	<b>Total</b>	<b>162.0</b>	<b>234.3</b>	<b>66.8</b>	<b>92.4</b>	<b>145.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>		
	Architectural, engineering and related services	Grants and contributions	ACOA	1.3	1.2	0.3	1.5	0.1	2.5	3.0	1.0	2.2	0.1
			IND	9.7	7.4	4.5	3.2	7.0	19.2	19.0	13.1	4.7	9.6
NRCan			2.8	3.2	3.1	4.1	3.0	5.5	8.2	9.1	6.0	4.2	
NRC			4.4	3.7	6.4	7.3	6.4	8.6	9.4	18.6	10.8	8.8	
NSERC			4.8	0.6	0.5	0.3	0.2	9.4	1.5	1.6	0.5	0.3	
Other			0.4	0.0	0.9	1.0	0.8	0.9	0.2	2.3	1.6	1.0	
<b>Total</b>			<b>23.4</b>	<b>16.1</b>	<b>15.7</b>	<b>17.4</b>	<b>17.5</b>	<b>46.1</b>	<b>41.3</b>	<b>45.7</b>	<b>25.8</b>	<b>24.0</b>	
Contracts		AECL	1.1	1.4	0.5	0.0	0.1	2.1	3.5	1.5	0.1	0.1	
		CSA	14.4	7.2	5.3	37.4	43.1	28.3	18.4	15.5	55.5	59.1	
		NDEF	6.6	6.5	5.7	4.5	4.8	13.1	16.7	16.7	6.7	6.6	
		NRCan	1.9	2.8	2.7	2.1	1.3	3.7	7.1	7.8	3.0	1.8	
		TC	2.0	3.7	3.4	4.8	5.8	3.9	9.4	9.9	7.2	8.0	
		Other	1.3	1.3	1.0	1.2	0.3	2.8	3.6	2.9	1.7	0.4	
		<b>Total</b>	<b>27.3</b>	<b>22.9</b>	<b>18.6</b>	<b>50.0</b>	<b>55.4</b>	<b>53.9</b>	<b>58.7</b>	<b>54.3</b>	<b>74.2</b>	<b>76.0</b>	
<b>Total</b>		<b>50.7</b>	<b>39.1</b>	<b>34.3</b>	<b>67.3</b>	<b>72.9</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>		
Computer system design and related services		Grants and contributions	ACOA	1.8	1.6	2.9	4.7	2.1	4.4	1.6	9.2	16.1	6.5
			IND	2.7	1.2	1.5	0.4	1.4	6.4	1.2	4.7	1.5	4.3
	NRC		1.7	3.7	12.0	8.0	11.6	4.2	3.9	38.3	27.8	35.7	
	Other		1.6	0.6	1.6	2.1	1.4	3.6	0.6	5.1	7.2	4.1	
	<b>Total</b>		<b>7.8</b>	<b>7.1</b>	<b>18.0</b>	<b>15.2</b>	<b>16.5</b>	<b>18.6</b>	<b>7.3</b>	<b>57.3</b>	<b>52.6</b>	<b>50.6</b>	
	Contracts	CSA	12.2	71.4	2.7	4.9	4.5	29.2	74.2	8.6	16.8	13.9	
		NDEF	19.7	15.1	9.3	7.8	10.8	47.1	15.7	29.6	27.1	33.3	
		NRCan	1.3	1.6	0.6	0.5	0.0	3.2	1.7	2.1	1.9	0.0	
		Other	0.8	1.1	0.8	0.5	0.8	1.9	1.1	2.4	1.6	2.2	
		<b>Total</b>	<b>34.0</b>	<b>89.2</b>	<b>13.4</b>	<b>13.7</b>	<b>16.1</b>	<b>81.4</b>	<b>92.7</b>	<b>42.7</b>	<b>47.4</b>	<b>49.4</b>	
<b>Total</b>	<b>41.8</b>	<b>96.2</b>	<b>31.4</b>	<b>28.9</b>	<b>32.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>			

**Text table 5. Concentration of federal R&D payments by major department or agency, 1997-1998 to 2001-2002**

Major department or agency	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	percent of total payments					percent identified by NAICS				
Atlantic Canada Opportunities Agency	1	2	2	2	1	98	96	83	92	88
Canadian Economic Development for Quebec Regions	1	1	1	1	1	77	94	73	94	81
Canadian Space Agency	17	30	30	16	16	100	96	97	98	99
Environment Canada	1	1	1	1	1	22	38	17	16	14
Industry Canada	43	30	27	38	51	100	100	100	100	98
National Defence	15	14	15	18	12	57	51	42	36	84
National Research Council	11	13	12	14	10	27	28	89	82	74
Natural Resources Canada	4	4	7	5	3	95	96	98	93	97
Western Economic Diversification Canada	1	0	1	1	1	100	100	97	94	94
Other	6	5	4	4	4	78	66	90	92	86
	in millions of dollars									
<b>Total payments</b>	<b>697</b>	<b>745</b>	<b>717</b>	<b>621</b>	<b>825</b>	<b>83</b>	<b>80</b>	<b>87</b>	<b>84</b>	<b>92</b>

**Chart 4. Concentration of federal R&D payments by major department or agency, 2001-2002**



**Text table 6. Concentration of federal S&T payments among selected industries, by region, 2001-2002**

Selected industries	Atlantic Provinces	Que. <sup>1</sup>	Mtl.	Ont. <sup>2</sup>	Tor.	Man.	Sask.	Alta.	B.C.	NCR	Total <sup>3</sup>
in thousands of dollars											
Agriculture, forestry, fishing and hunting	2,066	256	1,781	437	0	33	192	75	454	212	5,506
Mining and oil and gas extraction	136	170	85	533	1,547	0	15	310	147	5	2,948
Utilities – Total	59	97	161	75	1,238	0	0	70	41	0	1,741
Construction	543	195	660	2,615	162	44	609	10	284	334	5,456
Machinery	736	1,883	36,445	5,603	6,384	25	144	277	1,382	0	52,879
Communications equipment	0	0	4,146	22,801	1,617	5	18	777	2,915	10,205	42,484
Navigational, measuring, medical and control instruments	7,595	149	1,828	602	27,418	9,458	4,837	690	11,564	1,609	65,752
Aerospace products and parts	4,154	9	120,659	1,079	18,108	8	0	180	586	358	145,141
Other manufacturing industries	3,733	15,608	4,719	8,518	31,819	866	656	1,260	17,489	7,441	92,247
Architectural, engineering and related services	4,373	3,013	7,975	3,602	38,351	1,085	396	2,254	4,798	10,402	76,363
Computer system design and related services	4,342	3,310	4,152	2,278	3,794	322	258	1,717	3,913	9,469	33,555
Scientific research and development	1,740	1,461	7,120	7,774	6,428	560	484	6,919	3,764	10,849	47,114
Other services	5,575	12,885	12,619	7,516	11,081	912	1,394	3,191	5,016	145,761	206,024
Unspecified industry code	5,717	7,347	6,491	10,746	6,449	1,416	1,069	9,035	5,774	6,091	261,093
<b>Total all industries</b>	<b>40,769</b>	<b>46,383</b>	<b>208,841</b>	<b>74,179</b>	<b>154,396</b>	<b>14,734</b>	<b>10,072</b>	<b>26,765</b>	<b>58,127</b>	<b>202,736</b>	<b>1,038,303</b>
<b>Percent</b>	<b>3.9</b>	<b>4.5</b>	<b>20.1</b>	<b>7.1</b>	<b>14.9</b>	<b>1.4</b>	<b>1.0</b>	<b>2.6</b>	<b>5.6</b>	<b>19.5</b>	<b>100.0</b>

1. Excluding Montréal (Mtl.) and National Capital Region (NCR).

2. Excluding Toronto (Tor.) and National Capital Region (NCR).

3. Includes region unallocated and Yukon, Northwest Territories and Nunavut .

**Text table 7. Concentration of federal R&D payments among selected industries, by region, 2001-2002**

Selected industries	Atlantic Provinces	Que. <sup>1</sup>	Mtl.	Ont. <sup>2</sup>	Tor.	Man.	Sask.	Alta.	B.C.	NCR	Total <sup>3</sup>
in thousands of dollars											
Agriculture, forestry, fishing and hunting	2,057	244	1,761	391	0	33	183	75	422	212	5,378
Mining and oil and gas extraction	136	170	85	533	1,547	0	15	310	147	5	2,948
Utilities – Total	59	97	157	75	1,238	0	0	68	23	0	1,717
Construction	543	195	660	2,615	156	41	75	10	62	109	4,466
Machinery	736	1,817	36,445	5,603	6,344	25	144	277	1,382	0	52,773
Communications equipment	0	0	4,146	22,789	1,616	5	6	777	2,915	10,119	42,373
Navigational, measuring, medical and control instruments	7,595	145	1,828	535	27,414	9,458	4,837	690	11,490	1,609	65,603
Aerospace products and parts	4,154	9	120,659	1,079	18,108	8	0	180	586	358	145,141
Other manufacturing industries	3,674	15,572	4,645	8,399	31,401	866	628	1,069	17,288	7,430	91,110
Architectural, engineering and related services	4,148	2,999	7,921	3,420	38,070	336	392	2,194	4,365	8,979	72,928
Computer system design and related services	4,259	3,310	4,120	2,252	3,713	322	258	1,716	3,581	9,008	32,539
Scientific research and development	1,711	1,448	7,050	7,744	6,131	559	484	6,911	3,474	10,722	46,249
Other services	4,791	11,443	11,698	7,202	10,482	741	675	3,084	4,540	144,220	198,950
Unspecified industry code	4,824	6,648	5,980	9,638	5,412	752	1,046	8,397	3,967	5,476	63,042
<b>Total all industries</b>	<b>38,687</b>	<b>44,097</b>	<b>207,155</b>	<b>72,275</b>	<b>151,632</b>	<b>13,146</b>	<b>8,743</b>	<b>25,758</b>	<b>54,242</b>	<b>198,247</b>	<b>825,217</b>
<b>Percent</b>	<b>4.7</b>	<b>5.3</b>	<b>25.1</b>	<b>8.8</b>	<b>18.4</b>	<b>1.6</b>	<b>1.1</b>	<b>3.1</b>	<b>6.6</b>	<b>24.0</b>	<b>100.0</b>

1. Excluding Montréal (Mtl.) and National Capital Region (NCR).
2. Excluding Toronto (Tor.) and National Capital Region (NCR).
3. Includes region unallocated and Yukon, Northwest Territories and Nunavut.

**Appendix I**  
**Tables 1 to 17**

**Table 1. Total federal payments to industry for S&T and R&D, by industry group, 1997-1998 to 2001-2002**

Industries	S&T					R&D				
	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					in millions of dollars				
<b>Agriculture, forestry, fishing and hunting</b>										
Agriculture	1	0	2	2	2	1	0	2	2	2
Forestry and logging	1	1	5	3	2	1	1	5	3	2
Fishing, hunting and trapping	1	1	2	1	1	1	1	2	1	1
<b>Total agriculture, forestry, fishing and hunting</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>6</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>6</b>	<b>5</b>
<b>Mining and oil and gas extraction</b>										
Oil and gas extraction	1	0	0	0	2	1	1	1	0	2
Mining	1	1	1	1	1	0	1	0	1	1
<b>Total mining and oil and gas extraction</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>
<b>Utilities</b>										
Electric power	0	3	5	3	1	0	3	5	3	1
Other utilities	0	1	1	1	1	0	0	1	1	1
<b>Total utilities</b>	<b>0</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>4</b>	<b>2</b>
<b>Construction</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>4</b>
<b>Manufacturing</b>										
Food	0	1	2	2	2	0	1	2	2	1
Beverage and tobacco	0	0	0	0	0	0	0	0	0	0
Textile	1	0	1	0	0	0	0	1	0	0
Wood products	0	1	9	5	6	0	1	9	5	6
Paper	8	5	15	6	4	8	5	15	6	4
Printing	0	0	0	0	0	0	0	1	0	0
Petroleum and coal products	0	0	0	0	0	0	0	0	0	0
Pharmaceutical and medicine	4	6	9	6	9	4	6	9	6	9
Other chemicals	2	6	18	13	8	2	6	18	13	8
Plastic products	1	1	2	1	2	1	2	2	1	2
Rubber products	0	0	0	2	1	0	0	0	2	1
Non-metallic mineral products	1	0	1	1	1	1	0	1	1	1
Primary metal (ferrous)	0	0	0	0	0	0	0	0	0	0
Primary metal (non-ferrous)	2	0	1	0	0	2	0	1	0	0
Fabricated metal products	3	3	3	3	3	3	3	3	3	3
Machinery	4	6	12	23	53	4	5	12	23	53
Computer and peripheral equipment	8	4	12	15	18	8	4	11	15	18
Communications equipment	27	17	20	39	43	27	17	20	39	42
Semiconductor and other electronic components	2	1	2	16	17	2	1	2	16	17
Navigational, measuring, medical and control instruments	22	42	207	52	66	22	42	207	52	66
Other computer and electronic products	1	0	2	1	1	1	0	2	1	1
Electrical equipment, appliance and components	4	6	9	11	11	4	6	8	11	11
Motor vehicle and parts	18	13	14	2	2	17	13	14	2	2
Aerospace products and parts	162	235	67	93	145	162	234	67	93	145
All other transportation equipment	31	0	1	0	0	31	0	1	0	0
Furniture and related products	0	1	0	0	0	0	0	0	0	0
Other manufacturing industries	8	3	6	7	7	8	3	6	7	7
<b>Total manufacturing</b>	<b>309</b>	<b>351</b>	<b>413</b>	<b>298</b>	<b>399</b>	<b>307</b>	<b>349</b>	<b>412</b>	<b>298</b>	<b>397</b>
<b>Services</b>										
Wholesale trade	6	8	9	11	8	5	7	9	10	7
Retail trade	5	2	2	2	1	5	2	2	2	1
Transportation and warehousing	4	5	2	2	4	4	3	1	2	4
Information and cultural industries	99	21	11	16	137	96	21	11	16	137
Finance, insurance and real estate	3	2	5	6	4	3	1	4	5	3
Architectural, engineering and related services	54	43	37	72	76	51	39	34	67	73
Computer system design and related services	44	100	34	31	34	42	96	31	29	33
Management, scientific and technical consulting services	21	13	17	14	13	16	10	12	11	12
Scientific research and development	25	36	50	33	47	24	33	49	32	46
Health care and social assistance	1	2	4	5	14	1	2	4	5	14
All other services	29	31	39	37	25	18	21	31	31	21
<b>Total services</b>	<b>291</b>	<b>263</b>	<b>210</b>	<b>229</b>	<b>363</b>	<b>265</b>	<b>235</b>	<b>188</b>	<b>210</b>	<b>351</b>
<b>Unspecified industry code</b>	<b>260</b>	<b>296</b>	<b>256</b>	<b>271</b>	<b>261</b>	<b>120</b>	<b>152</b>	<b>96</b>	<b>99</b>	<b>63</b>
<b>Total all industries</b>	<b>867</b>	<b>920</b>	<b>901</b>	<b>813</b>	<b>1,038</b>	<b>697</b>	<b>745</b>	<b>717</b>	<b>621</b>	<b>825</b>



**Table 2. Total federal S&T payments to industry, by industry group, 1997-1998 to 2001-2002**

Industries	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
<b>Agriculture, forestry, fishing and hunting</b>										
Agriculture	1	0	2	2	2	0	0	0	0	0
Forestry and logging	1	1	5	3	2	0	0	1	1	1
Fishing, hunting and trapping	1	1	2	1	1	0	0	0	0	0
<b>Total agriculture, forestry, fishing and hunting</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>6</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Mining and oil and gas extraction</b>										
Oil and gas extraction	1	0	0	0	2	0	0	0	0	0
Mining	1	1	1	1	1	0	0	0	0	0
<b>Total mining and oil and gas extraction</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Utilities</b>										
Electric power	0	3	5	3	1	0	0	1	1	0
Other utilities	0	1	1	1	1	0	0	0	0	0
<b>Total utilities</b>	<b>0</b>	<b>4</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>Construction</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>4</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>Manufacturing</b>										
Food	0	1	2	2	2	0	0	0	0	0
Beverage and tobacco	0	0	0	0	0	0	0	0	0	0
Textile	1	0	1	0	0	0	0	0	0	0
Wood products	0	1	9	5	6	0	0	1	1	1
Paper	8	5	15	6	4	1	1	2	1	0
Printing	0	0	0	0	0	0	0	0	0	0
Petroleum and coal products	0	0	0	0	0	0	0	0	0	0
Pharmaceutical and medicine	4	6	9	6	9	1	1	1	1	1
Other chemicals	2	6	18	13	8	0	1	2	2	1
Plastic products	1	1	2	1	2	0	0	0	0	0
Rubber products	0	0	0	2	1	0	0	0	0	0
Non-metallic mineral products	1	0	1	1	1	0	0	0	0	0
Primary metal (ferrous)	0	0	0	0	0	0	0	0	0	0
Primary metal (non-ferrous)	2	0	1	0	0	0	0	0	0	0
Fabricated metal products	3	3	3	3	3	0	0	1	0	0
Machinery	4	6	12	23	53	1	1	1	3	5
Computer and peripheral equipment	8	4	12	15	18	1	0	1	2	2
Communications equipment	27	17	20	39	43	3	2	2	5	4
Semiconductor and other electronic components	2	1	2	16	17	0	0	0	2	2
Navigational, measuring, medical and control instruments	22	42	207	52	66	3	5	23	7	6
Other computer and electronic products	1	0	2	1	1	0	0	0	0	0
Electrical equipment, appliance and components	4	6	9	11	11	0	1	1	1	1
Motor vehicle and parts	18	13	14	2	2	2	1	2	0	0
Aerospace products and parts	162	235	67	93	145	19	25	8	11	14
All other transportation equipment	31	0	1	0	0	4	0	0	0	0
Furniture and related products	0	1	0	0	0	0	0	0	0	0
Other manufacturing industries	8	3	6	7	7	1	0	1	1	1
<b>Total manufacturing</b>	<b>309</b>	<b>351</b>	<b>413</b>	<b>298</b>	<b>399</b>	<b>36</b>	<b>38</b>	<b>46</b>	<b>37</b>	<b>38</b>
<b>Services</b>										
Wholesale trade	6	8	9	11	8	1	1	1	1	1
Retail trade	5	2	2	2	1	1	0	0	0	0
Transportation and warehousing	4	5	2	2	4	1	1	0	0	0
Information and cultural industries	99	21	11	16	137	11	3	1	2	13
Finance, insurance and real estate	3	2	5	6	4	0	0	1	1	1
Architectural, engineering and related services	54	43	37	72	76	6	5	4	9	8
Computer system design and related services	44	100	34	31	34	5	11	4	4	3
Management, scientific and technical consulting services	21	13	17	14	13	3	1	2	2	1
Scientific research and development	25	36	50	33	47	3	4	6	4	5
Health care and social assistance	1	2	4	5	14	0	0	0	0	1
All other services	29	31	39	37	25	3	3	4	5	2
<b>Total services</b>	<b>291</b>	<b>263</b>	<b>210</b>	<b>229</b>	<b>363</b>	<b>34</b>	<b>29</b>	<b>23</b>	<b>28</b>	<b>35</b>
<b>Unspecified industry code</b>	<b>260</b>	<b>296</b>	<b>256</b>	<b>271</b>	<b>261</b>	<b>30</b>	<b>32</b>	<b>28</b>	<b>33</b>	<b>25</b>
<b>Total all industries</b>	<b>867</b>	<b>920</b>	<b>901</b>	<b>813</b>	<b>1,038</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 3. Total federal payments to industry for S&T contracts, by industry group, 1997-1998 to 2001-2002**

Industries	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
<b>Agriculture, forestry, fishing and hunting</b>										
Agriculture	0	0	0	0	0	0	0	0	0	0
Forestry and logging	0	0	0	0	0	0	0	0	0	0
Fishing, hunting and trapping	0	0	0	0	0	0	0	0	0	0
<b>Total agriculture, forestry, fishing and hunting</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Mining and oil and gas extraction</b>										
Oil and gas extraction	0	0	0	0	0	0	0	0	0	0
Mining	0	0	1	1	1	0	0	0	0	0
<b>Total mining and oil and gas extraction</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Utilities</b>										
Electric power	0	2	0	0	1	0	0	0	0	0
Other utilities	0	0	0	0	0	0	0	0	0	0
<b>Total utilities</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Construction</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Manufacturing</b>										
Food	0	0	0	0	0	0	0	0	0	0
Beverage and tobacco	0	0	0	0	0	0	0	0	0	0
Textile	0	0	0	0	0	0	0	0	0	0
Wood products	0	0	0	0	0	0	0	0	0	0
Paper	0	0	0	0	1	0	0	0	0	0
Printing	0	0	0	0	0	0	0	0	0	0
Petroleum and coal products	0	0	0	0	0	0	0	0	0	0
Pharmaceutical and medicine	0	0	0	0	0	0	0	0	0	0
Other chemicals	0	1	1	1	2	0	0	0	0	1
Plastic products	0	0	0	0	0	0	0	0	0	0
Rubber products	0	0	0	0	0	0	0	0	0	0
Non-metallic mineral products	0	0	0	0	0	0	0	0	0	0
Primary metal (ferrous)	0	0	0	0	0	0	0	0	0	0
Primary metal (non-ferrous)	1	0	0	0	0	0	0	0	0	0
Fabricated metal products	1	1	1	0	1	1	0	0	0	0
Machinery	1	1	1	1	1	1	0	0	0	0
Computer and peripheral equipment	7	3	7	5	6	2	1	2	2	2
Communications equipment	24	7	8	7	11	8	2	2	3	4
Semiconductor and other electronic components	1	0	0	0	0	0	0	0	0	0
Navigational, measuring, medical and control instruments	10	21	182	24	39	3	5	46	9	13
Other computer and electronic products	0	0	0	0	0	0	0	0	0	0
Electrical equipment, appliance and components	0	3	5	7	9	0	1	1	3	3
Motor vehicle and parts	4	1	1	0	0	1	0	0	0	0
Aerospace products and parts	44	106	2	2	27	14	25	1	1	9
All other transportation equipment	1	0	1	0	0	0	0	0	0	0
Furniture and related products	0	1	0	0	0	0	0	0	0	0
Other manufacturing industries	2	2	3	3	1	1	1	1	1	1
<b>Total manufacturing</b>	<b>96</b>	<b>147</b>	<b>212</b>	<b>50</b>	<b>98</b>	<b>31</b>	<b>35</b>	<b>53</b>	<b>19</b>	<b>33</b>
<b>Services</b>										
Wholesale trade	4	6	3	2	3	1	1	1	1	1
Retail trade	3	1	0	0	0	1	0	0	0	0
Transportation and warehousing	2	3	1	2	3	0	1	0	0	1
Information and cultural industries	19	2	2	1	1	6	0	1	0	0
Finance, insurance and real estate	3	2	2	2	1	1	1	0	1	0
Architectural, engineering and related services	31	26	21	55	58	10	6	5	21	20
Computer system design and related services	36	93	16	16	16	12	22	4	6	6
Management, scientific and technical consulting services	15	9	11	9	10	5	2	3	4	3
Scientific research and development	9	13	7	9	10	3	3	2	3	3
Health care and social assistance	0	0	0	0	2	0	0	0	0	1
All other services	16	20	20	12	11	5	5	5	5	4
<b>Total services</b>	<b>138</b>	<b>175</b>	<b>83</b>	<b>108</b>	<b>115</b>	<b>44</b>	<b>41</b>	<b>21</b>	<b>41</b>	<b>39</b>
<b>Unspecified industry code</b>	<b>78</b>	<b>97</b>	<b>100</b>	<b>104</b>	<b>80</b>	<b>25</b>	<b>23</b>	<b>25</b>	<b>39</b>	<b>27</b>
<b>Total all industries</b>	<b>313</b>	<b>423</b>	<b>400</b>	<b>265</b>	<b>299</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 4. Total federal payments to industry for S&T grants and contributions, by industry group, 1997-1998 to 2001-2002**

Industries	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
<b>Agriculture, forestry, fishing and hunting</b>										
Agriculture	1	1	2	2	2	0	0	0	0	0
Forestry and logging	1	1	5	2	2	0	0	1	1	1
Fishing, hunting and trapping	1	0	2	1	1	0	0	1	0	0
<b>Total agriculture, forestry, fishing and hunting</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>Mining and oil and gas extraction</b>										
Oil and gas extraction	1	0	1	0	2	0	0	0	0	0
Mining	1	1	0	1	0	0	0	0	0	0
<b>Total mining and oil and gas extraction</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Utilities</b>										
Electric power	0	1	5	3	1	0	1	1	1	0
Other utilities	0	1	1	1	0	0	0	0	0	0
<b>Total utilities</b>	<b>0</b>	<b>2</b>	<b>6</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>Construction</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Manufacturing</b>										
Food	0	1	2	2	2	0	0	0	0	0
Beverage and tobacco	0	0	0	0	0	0	0	0	0	0
Textile	1	0	1	0	0	0	0	0	0	0
Wood products	0	1	9	5	6	0	0	2	1	1
Paper	8	5	14	6	3	1	1	3	1	1
Printing	0	0	0	0	0	0	0	0	0	0
Petroleum and coal products	0	0	0	0	0	0	0	0	0	0
Pharmaceutical and medicine	4	6	8	6	9	1	1	2	1	1
Other chemicals	1	5	16	12	6	0	1	3	2	1
Plastic products	1	2	2	1	2	0	0	0	0	0
Rubber products	0	0	0	2	1	0	0	0	0	0
Non-metallic mineral products	1	0	1	1	1	0	0	0	0	0
Primary metal (ferrous)	0	0	0	0	0	0	0	0	0	0
Primary metal (non-ferrous)	1	0	1	0	0	0	0	0	0	0
Fabricated metal products	1	2	2	2	2	0	1	1	1	0
Machinery	3	4	11	23	53	1	1	2	4	7
Computer and peripheral equipment	1	1	5	10	12	0	0	1	2	2
Communications equipment	3	10	13	32	32	1	2	3	6	4
Semiconductor and other electronic components	1	1	2	16	17	0	0	0	3	2
Navigational, measuring, medical and control instruments	12	21	26	28	26	2	4	5	5	4
Other computer and electronic products	1	0	2	1	1	0	0	0	0	0
Electrical equipment, appliance and components	4	2	4	4	2	1	1	1	1	0
Motor vehicle and parts	14	12	13	2	2	3	2	3	0	0
Aerospace products and parts	118	129	65	91	118	22	26	13	17	16
All other transportation equipment	31	0	0	0	0	6	0	0	0	0
Furniture and related products	0	0	0	0	0	0	0	0	0	0
Other manufacturing industries	6	2	4	4	6	1	1	1	1	1
<b>Total manufacturing</b>	<b>212</b>	<b>204</b>	<b>201</b>	<b>248</b>	<b>301</b>	<b>39</b>	<b>41</b>	<b>40</b>	<b>45</b>	<b>40</b>
<b>Services</b>										
Wholesale trade	2	2	7	9	5	1	0	1	1	1
Retail trade	2	1	2	2	1	0	0	0	0	0
Transportation and warehousing	3	2	1	0	2	1	0	0	0	0
Information and cultural industries	79	20	8	15	136	14	4	2	3	18
Finance, insurance and real estate	0	0	3	5	3	0	0	1	1	0
Architectural, engineering and related services	23	16	16	17	19	4	3	3	3	3
Computer system design and related services	8	7	18	15	17	2	2	4	3	2
Management, scientific and technical consulting services	6	4	6	4	3	1	1	1	1	1
Scientific research and development	16	23	42	24	37	3	5	9	4	5
Health care and social assistance	1	2	4	5	11	0	1	1	1	2
All other services	13	11	20	25	14	2	2	4	5	2
<b>Total services</b>	<b>153</b>	<b>88</b>	<b>127</b>	<b>121</b>	<b>248</b>	<b>28</b>	<b>18</b>	<b>26</b>	<b>22</b>	<b>34</b>
<b>Unspecified industry code</b>	<b>183</b>	<b>198</b>	<b>155</b>	<b>167</b>	<b>181</b>	<b>33</b>	<b>40</b>	<b>31</b>	<b>31</b>	<b>25</b>
<b>Total all industries</b>	<b>554</b>	<b>497</b>	<b>501</b>	<b>548</b>	<b>739</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 5. Total federal R&D payments to industry, by industry group, 1997-1998 to 2001-2002**

Industries	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
<b>Agriculture, forestry, fishing and hunting</b>										
Agriculture	1	0	2	2	2	1	0	0	0	0
Forestry and logging	1	1	5	3	2	0	0	1	0	1
Fishing, hunting and trapping	1	1	2	1	1	0	0	0	0	0
<b>Total agriculture, forestry, fishing and hunting</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>6</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>Mining and oil and gas extraction</b>										
Oil and gas extraction	1	1	1	0	2	0	0	0	0	0
Mining	0	1	0	1	1	0	0	0	0	0
<b>Total mining and oil and gas extraction</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Utilities</b>										
Electric power	0	3	5	3	1	0	1	1	1	0
Other utilities	0	0	1	1	1	0	0	0	0	0
<b>Total utilities</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>Construction</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>Manufacturing</b>										
Food	0	1	2	2	1	0	0	0	0	0
Beverage and tobacco	0	0	0	0	0	0	0	0	0	0
Textile	0	0	1	0	0	0	0	0	0	0
Wood products	0	1	9	5	6	0	0	1	1	1
Paper	8	5	15	6	4	1	1	2	1	1
Printing	0	0	1	0	0	0	0	0	0	0
Petroleum and coal products	0	0	0	0	0	0	0	0	0	0
Pharmaceutical and medicine	4	6	9	6	9	1	1	1	1	1
Other chemicals	2	6	18	13	8	0	1	3	2	1
Plastic products	1	2	2	1	2	0	0	0	0	0
Rubber products	0	0	0	2	1	0	0	0	0	0
Non-metallic mineral products	1	0	1	1	1	0	0	0	0	0
Primary metal (ferrous)	0	0	0	0	0	0	0	0	0	0
Primary metal (non-ferrous)	2	0	1	0	0	0	0	0	0	0
Fabricated metal products	3	3	3	3	3	0	0	1	1	0
Machinery	4	5	12	23	53	1	1	2	4	7
Computer and peripheral equipment	8	4	11	15	18	1	1	2	2	2
Communications equipment	27	17	20	39	42	4	2	3	6	5
Semiconductor and other electronic components	2	1	2	16	17	0	0	0	3	2
Navigational, measuring, medical and control instruments	22	42	207	52	66	3	6	29	9	8
Other computer and electronic products	1	0	2	1	1	0	0	0	0	0
Electrical equipment, appliance and components	4	6	8	11	11	1	1	1	2	1
Motor vehicle and parts	17	13	14	2	2	3	2	2	0	0
Aerospace products and parts	162	234	67	93	145	23	31	9	15	18
All other transportation equipment	31	0	1	0	0	5	0	0	0	0
Furniture and related products	0	0	0	0	0	0	0	0	0	0
Other manufacturing industries	8	3	6	7	7	1	0	1	1	1
<b>Total manufacturing</b>	<b>307</b>	<b>349</b>	<b>412</b>	<b>298</b>	<b>397</b>	<b>44</b>	<b>47</b>	<b>57</b>	<b>48</b>	<b>48</b>
<b>Services</b>										
Wholesale trade	5	7	9	10	7	1	1	1	1	1
Retail trade	5	2	2	2	1	1	0	0	0	0
Transportation and warehousing	4	3	1	2	4	1	1	0	0	0
Information and cultural industries	96	21	11	16	137	14	3	2	3	17
Finance, insurance and real estate	3	1	4	5	3	0	0	1	1	0
Architectural, engineering and related services	51	39	34	67	73	7	5	5	11	9
Computer system design and related services	42	96	31	29	33	6	13	4	5	4
Management, scientific and technical consulting services	16	10	12	11	12	2	1	2	2	2
Scientific research and development	24	33	49	32	46	3	5	7	5	6
Health care and social assistance	1	2	4	5	14	0	0	0	1	1
All other services	18	21	31	31	21	3	3	4	5	3
<b>Total services</b>	<b>265</b>	<b>235</b>	<b>188</b>	<b>210</b>	<b>351</b>	<b>38</b>	<b>32</b>	<b>26</b>	<b>34</b>	<b>43</b>
<b>Unspecified industry code</b>	<b>120</b>	<b>152</b>	<b>96</b>	<b>99</b>	<b>63</b>	<b>17</b>	<b>20</b>	<b>14</b>	<b>16</b>	<b>8</b>
<b>Total all industries</b>	<b>697</b>	<b>745</b>	<b>717</b>	<b>621</b>	<b>825</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 6. Total federal payments to industry for R&D contracts, by industry group, 1997-1998 to 2001-2002**

Industries	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
<b>Agriculture, forestry, fishing and hunting</b>										
Agriculture	0	0	0	0	0	0	0	0	0	0
Forestry and logging	0	0	0	0	0	0	0	0	0	0
Fishing, hunting and trapping	0	0	0	0	0	0	0	0	0	0
<b>Total agriculture, forestry, fishing and hunting</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Mining and oil and gas extraction</b>										
Oil and gas extraction	0	0	0	0	0	0	0	0	0	0
Mining	0	0	1	1	1	0	0	0	0	0
<b>Total mining and oil and gas extraction</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Utilities</b>										
Electric power	0	1	0	0	0	0	1	0	0	0
Other utilities	0	0	0	0	0	0	0	0	0	0
<b>Total utilities</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Construction</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>Manufacturing</b>										
Food	0	0	0	0	0	0	0	0	0	0
Beverage and tobacco	0	0	0	0	0	0	0	0	0	0
Textile	0	0	0	0	0	0	0	0	0	0
Wood products	0	0	0	0	0	0	0	0	0	0
Paper	0	0	0	0	1	0	0	0	0	1
Printing	0	0	0	0	0	0	0	0	0	0
Petroleum and coal products	0	0	0	0	0	0	0	0	0	0
Pharmaceutical and medicine	0	0	0	0	0	0	0	0	0	0
Other chemicals	0	1	1	1	2	0	0	0	1	1
Plastic products	0	0	0	0	0	0	0	0	0	0
Rubber products	0	0	0	0	0	0	0	0	0	0
Non-metallic mineral products	0	0	0	0	1	0	0	0	0	0
Primary metal (ferrous)	0	0	0	0	0	0	0	0	0	0
Primary metal (non-ferrous)	1	0	0	0	0	0	0	0	0	0
Fabricated metal products	1	1	1	0	1	1	0	0	0	0
Machinery	1	1	1	0	0	0	0	0	0	0
Computer and peripheral equipment	7	3	7	5	6	3	1	2	2	2
Communications equipment	24	7	8	7	11	9	2	3	3	5
Semiconductor and other electronic components	1	0	0	1	0	0	0	0	0	0
Navigational, measuring, medical and control instruments	10	21	182	24	39	4	6	51	11	16
Other computer and electronic products	1	0	0	0	0	0	0	0	0	0
Electrical equipment, appliance and components	0	4	5	7	9	0	1	1	3	4
Motor vehicle and parts	4	1	1	0	0	1	0	0	0	0
Aerospace products and parts	44	105	2	2	27	16	28	1	1	11
All other transportation equipment	0	0	1	0	0	0	0	0	0	0
Furniture and related products	0	0	0	0	0	0	0	0	0	0
Other manufacturing industries	2	2	2	3	1	1	0	1	1	1
<b>Total manufacturing</b>	<b>96</b>	<b>146</b>	<b>211</b>	<b>50</b>	<b>98</b>	<b>35</b>	<b>38</b>	<b>59</b>	<b>22</b>	<b>41</b>
<b>Services</b>										
Wholesale trade	3	5	2	1	2	1	1	1	1	1
Retail trade	3	1	0	0	0	1	0	0	0	0
Transportation and warehousing	1	1	1	1	3	0	0	0	1	1
Information and cultural industries	17	1	2	1	1	6	0	1	0	0
Finance, insurance and real estate	2	1	0	1	0	1	0	0	0	0
Architectural, engineering and related services	28	23	19	50	55	11	6	4	22	23
Computer system design and related services	34	89	14	14	16	13	23	4	6	7
Management, scientific and technical consulting services	10	6	6	7	9	4	3	2	3	4
Scientific research and development	8	10	7	9	10	3	3	2	4	4
Health care and social assistance	0	0	0	0	2	0	0	0	0	1
All other services	6	14	11	8	8	2	4	3	4	3
<b>Total services</b>	<b>112</b>	<b>151</b>	<b>62</b>	<b>92</b>	<b>106</b>	<b>42</b>	<b>40</b>	<b>17</b>	<b>41</b>	<b>44</b>
<b>Unspecified industry code</b>	<b>61</b>	<b>81</b>	<b>80</b>	<b>81</b>	<b>31</b>	<b>23</b>	<b>21</b>	<b>23</b>	<b>36</b>	<b>13</b>
<b>Total all industries</b>	<b>269</b>	<b>380</b>	<b>357</b>	<b>225</b>	<b>239</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 7. Total federal payments to industry for R&D grants and contributions, by industry group, 1997-1998 to 2001-2002**

Industries	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
<b>Agriculture, forestry, fishing and hunting</b>										
Agriculture	1	0	2	2	2	1	0	0	0	0
Forestry and logging	1	1	5	2	2	0	1	1	1	1
Fishing, hunting and trapping	1	1	2	1	1	0	0	1	0	0
<b>Total agriculture, forestry, fishing and hunting</b>	<b>3</b>	<b>2</b>	<b>9</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>
<b>Mining and oil and gas extraction</b>										
Oil and gas extraction	1	0	1	0	2	0	0	0	0	0
Mining	0	1	0	1	0	0	0	0	0	0
<b>Total mining and oil and gas extraction</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Utilities</b>										
Electric power	0	1	4	3	1	0	0	1	1	0
Other utilities	0	1	1	1	0	0	0	1	0	0
<b>Total utilities</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>
<b>Construction</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>Manufacturing</b>										
Food	0	1	2	2	2	0	0	1	1	0
Beverage and tobacco	0	0	0	0	0	0	0	0	0	0
Textile	1	0	0	0	0	0	0	0	0	0
Wood products	0	1	9	5	6	0	0	2	1	1
Paper	8	5	14	5	3	2	1	4	1	1
Printing	0	0	0	0	0	0	0	0	0	0
Petroleum and coal products	0	0	0	0	0	0	0	0	0	0
Pharmaceutical and medicine	4	6	9	6	9	1	2	2	2	1
Other chemicals	1	5	16	12	6	0	2	5	3	1
Plastic products	1	1	2	1	2	0	0	0	0	0
Rubber products	0	0	0	2	0	0	0	0	0	0
Non-metallic mineral products	1	0	1	1	0	0	0	0	0	0
Primary metal (ferrous)	0	0	0	0	0	0	0	0	0	0
Primary metal (non-ferrous)	1	0	1	0	0	0	0	0	0	0
Fabricated metal products	1	2	2	2	3	1	1	1	1	1
Machinery	3	4	11	23	53	1	1	3	6	9
Computer and peripheral equipment	0	1	5	10	12	0	0	1	2	2
Communications equipment	3	10	13	32	31	1	3	4	8	5
Semiconductor and other electronic components	1	1	2	16	17	0	0	1	4	3
Navigational, measuring, medical and control instruments	12	21	26	28	27	3	6	7	7	5
Other computer and electronic products	1	0	2	2	1	0	0	1	1	0
Electrical equipment, appliance and components	4	2	4	4	2	1	1	1	1	1
Motor vehicle and parts	14	12	13	2	2	3	3	4	1	0
Aerospace products and parts	118	129	65	91	118	28	35	18	23	20
All other transportation equipment	31	0	0	0	0	7	0	0	0	0
Furniture and related products	0	0	0	0	0	0	0	0	0	0
Other manufacturing industries	6	2	4	4	6	1	1	1	1	1
<b>Total manufacturing</b>	<b>211</b>	<b>203</b>	<b>201</b>	<b>248</b>	<b>300</b>	<b>49</b>	<b>56</b>	<b>56</b>	<b>63</b>	<b>51</b>
<b>Services</b>										
Wholesale trade	2	1	7	9	4	1	1	2	2	1
Retail trade	2	1	2	1	1	0	0	0	0	0
Transportation and warehousing	3	2	1	0	2	1	0	0	0	0
Information and cultural industries	79	20	8	15	136	19	6	2	3	23
Finance, insurance and real estate	0	0	3	4	3	0	0	1	1	1
Architectural, engineering and related services	23	16	16	17	18	5	5	5	4	3
Computer system design and related services	8	7	18	15	16	2	2	5	4	3
Management, scientific and technical consulting services	6	4	6	4	3	1	1	2	1	1
Scientific research and development	16	23	42	24	37	4	6	12	6	6
Health care and social assistance	1	2	3	5	11	0	0	1	1	2
All other services	13	8	20	24	14	3	2	5	8	2
<b>Total services</b>	<b>153</b>	<b>84</b>	<b>126</b>	<b>118</b>	<b>245</b>	<b>36</b>	<b>23</b>	<b>35</b>	<b>30</b>	<b>42</b>
<b>Unspecified industry code</b>	<b>59</b>	<b>71</b>	<b>16</b>	<b>18</b>	<b>32</b>	<b>14</b>	<b>20</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Total all industries</b>	<b>428</b>	<b>365</b>	<b>360</b>	<b>396</b>	<b>586</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 8. Total federal S&T payments to industry, by department or agency, 1997-1998 to 2001-2002**

Department or agency	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
Atlantic Canada Opportunities Agency	7	11	14	15	10	1	1	2	2	1
Atomic Energy of Canada Limited	13	16	5	5	6	1	2	1	1	1
Canada Mortgage and Housing Corporation	1	2	1	2	2	0	0	0	0	0
Canadian Economic Development for Quebec Regions	8	4	5	5	11	1	0	1	1	1
Canadian International Development Agency	124	127	139	147	148	14	14	15	18	14
Canadian Nuclear Safety Commission	0	0	1	1	1	0	0	0	0	0
Canadian Space Agency	122	222	215	102	132	14	24	24	13	13
Environment Canada	25	34	32	30	36	3	4	4	4	4
Fisheries and Oceans Canada	5	7	1	1	2	1	1	0	0	0
Health Canada	0	2	1	1	3	0	0	0	0	0
Industry Canada	299	224	191	237	415	34	25	21	29	40
National Defence	118	117	120	118	127	14	13	13	14	12
National Research Council	76	94	89	84	81	9	10	10	10	8
Natural Resources Canada	31	36	54	36	28	4	4	6	4	3
Natural Sciences and Engineering Research Council	18	11	12	15	15	2	1	1	2	1
Public Works and Government Services	2	1	1	1	3	0	0	0	0	0
Transport Canada	9	9	8	6	8	1	1	1	1	1
Western Economic Diversification Canada	6	2	11	6	9	1	0	1	1	1
Other	3	1	1	1	1	0	0	0	0	0
<b>Total</b>	<b>867</b>	<b>920</b>	<b>901</b>	<b>813</b>	<b>1,038</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 9. Total federal R&D payments to industry, by department or agency, 1997-1998 to 2001-2002**

Department or agency	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
Atlantic Canada Opportunities Agency	7	11	14	15	10	1	2	2	2	1
Atomic Energy of Canada Limited	13	16	5	5	6	2	2	1	1	1
Canada Mortgage and Housing Corporation	1	1	1	1	1	0	0	0	0	0
Canadian Economic Development for Quebec Regions	8	4	5	5	11	1	1	1	1	1
Canadian Space Agency	122	221	214	100	130	17	30	30	16	16
Environment Canada	8	11	8	8	11	1	1	1	1	1
Fisheries and Oceans Canada	1	3	0	1	2	0	0	0	0	0
Health Canada	0	1	0	1	2	0	0	0	0	0
Industry Canada	299	223	191	237	415	43	30	27	38	51
National Defence	105	107	111	108	97	15	14	15	18	12
National Research Council	76	94	89	84	81	11	13	12	14	10
Natural Resources Canada	25	29	48	30	26	4	4	7	5	3
Natural Sciences and Engineering Research Council	18	12	12	13	12	3	2	2	2	2
Public Works and Government Services	1	0	0	0	3	0	0	0	0	0
Transport Canada	8	8	7	6	8	1	1	1	1	1
Western Economic Diversification Canada	4	2	11	6	9	1	0	1	1	1
Other	1	2	1	1	1	0	0	0	0	0
<b>Total</b>	<b>697</b>	<b>745</b>	<b>717</b>	<b>621</b>	<b>825</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>



**Table 10. Total federal payments to industry for S&T contracts, by department or agency, 1997-1998 to 2001-2002**

Department or agency	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
Atomic Energy of Canada Limited	13	16	5	5	6	4	4	2	2	2
Canada Mortgage and Housing Corporation	1	1	1	1	0	0	0	0	0	0
Canadian Nuclear Safety Commission	0	0	1	1	1	0	0	0	1	1
Canadian Space Agency	122	221	213	90	106	39	52	54	34	35
Environment Canada	23	34	32	27	36	7	8	8	10	12
Fisheries and Oceans Canada	5	1	1	1	3	2	0	0	0	1
Health Canada	0	2	1	1	3	0	1	0	0	1
National Defence	118	117	120	118	127	38	28	30	45	42
Natural Resources Canada	17	21	17	13	5	6	5	4	5	2
Public Works and Government Services	2	1	1	1	3	1	0	0	1	1
Transport Canada	9	8	8	6	8	3	2	2	2	3
Other	3	1	0	1	1	0	0	0	0	0
<b>Total</b>	<b>313</b>	<b>423</b>	<b>400</b>	<b>265</b>	<b>299</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 11. Total federal payments to industry for R&D contracts, by department or agency, 1997-1998 to 2001-2002**

Department or agency	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
Atomic Energy of Canada Limited	13	16	5	5	6	5	4	2	2	3
Canadian Space Agency	121	221	213	88	104	45	58	60	39	44
Environment Canada	7	10	8	8	11	3	3	2	4	5
Fisheries and Oceans Canada	1	1	0	0	2	0	0	0	0	1
Health Canada	0	1	0	1	2	0	1	0	1	1
National Defence	105	107	111	108	97	39	28	31	48	40
Natural Resources Canada	11	14	11	6	5	4	4	3	3	2
Public Works and Government Services	1	0	0	1	3	1	0	0	0	1
Transport Canada	8	8	7	6	8	3	2	2	3	3
Other	2	2	2	2	1	0	0	0	0	0
<b>Total</b>	<b>269</b>	<b>380</b>	<b>357</b>	<b>225</b>	<b>239</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 12. Total federal payments to industry for S&T grants and contributions, by department or agency, 1997-1998 to 2001-2002**

Department or agency	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
Atlantic Canada Opportunities Agency	7	11	14	15	10	1	2	3	3	1
Canada Mortgage and Housing Corporation	0	0	0	0	1	0	0	0	0	0
Canadian Economic Development for Quebec Regions	8	4	5	5	11	2	1	1	1	2
Canadian International Development Agency	124	127	139	147	148	22	26	28	27	20
Canadian Space Agency	0	1	1	12	26	0	0	0	2	4
Environment Canada	1	0	1	3	1	0	0	0	1	0
Fisheries and Oceans Canada	1	7	0	0	0	0	1	0	0	0
Industry Canada	299	223	191	237	415	54	45	38	43	56
National Research Council	76	94	89	84	81	14	19	18	15	11
Natural Resources Canada	14	16	38	24	22	3	3	8	4	3
Natural Sciences and Engineering Research Council	18	12	12	15	15	3	2	2	3	2
Western Economic Diversification Canada	6	2	11	6	9	1	1	2	1	1
Other	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>554</b>	<b>497</b>	<b>501</b>	<b>548</b>	<b>739</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 13. Total federal payments to industry for R&D grants and contributions, by department or agency, 1997-1998 to 2001-2002**

Department or agency	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002
	in millions of dollars					percent				
Atlantic Canada Opportunities Agency	7	11	14	15	10	2	3	4	4	2
Canadian Economic Development for Quebec Regions	8	4	5	5	11	2	1	1	1	2
Canadian Space Agency	0	1	1	12	26	0	0	0	3	4
Fisheries and Oceans Canada	1	2	0	0	0	0	1	0	0	0
Industry Canada	299	223	191	237	415	70	61	53	60	71
National Research Council	76	94	89	84	81	18	26	25	21	14
Natural Resources Canada	14	16	37	23	22	3	4	11	6	3
Natural Sciences and Engineering Research Council	18	12	12	13	12	4	3	3	3	2
Western Economic Diversification Canada	4	2	11	6	9	1	1	3	2	2
Other	1	0	0	1	0	0	0	0	0	0
<b>Total</b>	<b>428</b>	<b>365</b>	<b>360</b>	<b>396</b>	<b>586</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table 14. Concentration of federal R&D payments among selected industries, by region, 1997-1998**

Selected industry	Atlantic Provinces	Que. <sup>1</sup>	Mtl.	Ont. <sup>2</sup>	Tor.	Man.	Sask.	Alta.	B.C.	NCR	Total <sup>3</sup>
in thousands of dollars											
Agriculture, forestry, fishing and hunting	1,367	32	39	0	28	8	148	593	139	135	2,489
Mining and oil and gas extraction	0	181	143	300	0	0	0	667	139	0	1,430
Utilities – Total	0	45	297	0	25	0	0	0	86	0	453
Construction	76	366	36	216	0	15	0	88	235	13	1,045
Machinery	390	1,086	112	772	1,348	0	7	149	22	366	4,252
Communications equipment	0	0	69	1,838	8,320	0	0	0	1,773	15,150	27,150
Navigational, measuring, medical and control instruments	470	182	9,959	642	1,507	6,663	196	0	536	1,565	21,720
Aerospace products and parts	10	186	128,756	2,536	29,823	0	0	0	0	700	162,011
Other manufacturing industries	3,122	7,948	15,412	5,702	38,506	106	143	913	16,305	3,471	91,628
Architectural, engineering and related services	5,140	2,665	10,486	1,719	4,256	353	96	2,568	5,739	17,682	50,704
Computer system design and related services	5,041	3,109	2,488	442	1,544	42	130	2,840	11,099	15,053	41,788
Scientific research and development	588	970	4,094	7,373	1,002	228	329	2,943	6,145	444	24,116
Other services	4,887	3,657	9,357	10,438	7,431	270	1,837	2,800	2,625	104,693	148,016
Unspecified industry code	10,888	22,544	1,518	35,934	5,748	2,334	3,662	10,290	13,333	1,169	120,322
<b>Total all industries</b>	<b>31,979</b>	<b>42,971</b>	<b>182,766</b>	<b>67,912</b>	<b>99,538</b>	<b>10,019</b>	<b>6,548</b>	<b>23,851</b>	<b>58,176</b>	<b>160,441</b>	<b>697,124</b>
<b>Percent</b>	<b>4.6</b>	<b>6.2</b>	<b>26.2</b>	<b>9.7</b>	<b>14.3</b>	<b>1.4</b>	<b>0.9</b>	<b>3.4</b>	<b>8.3</b>	<b>23.0</b>	<b>100.0</b>

1. Excluding Montréal (Mtl.) and National Capital Region (NCR).
2. Excluding Toronto (Tor.) and National Capital Region (NCR).
3. Includes region unallocated and Yukon, Northwest Territories and Nunavut.

**Table 15. Concentration of federal R&D payments among selected industries, by region, 1998-1999**

Selected industry	Atlantic Provinces	Que. <sup>1</sup>	Mtl.	Ont. <sup>2</sup>	Tor.	Man.	Sask.	Alta.	B.C.	NCR	Total <sup>3</sup>
in thousands of dollars											
Agriculture, forestry, fishing and hunting	1,378	22	8	7	212	100	0	405	36	27	2,195
Mining and oil and gas extraction	101	320	336	0	42	0	21	512	6	0	1,338
Utilities – Total	0	48	63	0	2,487	0	79	0	507	0	3,184
Construction	1,078	210	534	427	0	2	0	0	60	6	2,317
Machinery	41	767	141	1,196	1,678	0	0	0	1,480	0	5,303
Communications equipment	635	0	2,461	9,605	1,395	0	0	1,863	113	725	16,797
Navigational, measuring, medical and control instruments	2,651	944	13,632	3,121	5,299	7,482	4,657	0	1,649	2,668	42,103
Aerospace products and parts	1,456	0	92,532	0	136,461	0	0	0	3,692	172	234,313
Other manufacturing industries	2,967	4,337	7,393	5,349	7,651	59	11	1,015	15,808	5,949	50,539
Architectural, engineering and related services	4,058	3,717	12,075	1,484	5,413	226	62	3,166	2,108	6,741	39,050
Computer system design and related services	3,558	1,202	1,985	1,351	2,016	0	0	1,659	70,887	13,564	96,222
Scientific research and development	87	1,051	2,367	3,418	3,863	217	421	2,325	7,529	11,963	33,241
Other services	5,411	2,182	7,266	3,331	9,488	50	180	1,670	2,550	34,196	66,324
Unspecified industry code	9,231	16,510	2,225	22,357	7,418	2,356	2,672	7,947	10,103	1,837	151,878
<b>Total all industries</b>	<b>32,652</b>	<b>31,310</b>	<b>143,018</b>	<b>51,646</b>	<b>183,423</b>	<b>10,492</b>	<b>8,103</b>	<b>20,562</b>	<b>116,528</b>	<b>77,848</b>	<b>744,804</b>
<b>Percent</b>	<b>4.4</b>	<b>4.2</b>	<b>19.2</b>	<b>6.9</b>	<b>24.6</b>	<b>1.4</b>	<b>1.1</b>	<b>2.8</b>	<b>15.6</b>	<b>10.5</b>	<b>100.0</b>

1. Excluding Montreal (Mtl.) and National Capital Region (NCR).
2. Excluding Toronto (Tor.) and National Capital Region (NCR).
3. Includes region unallocated and Yukon, Northwest Territories and Nunavut.

**Table 16. Concentration of federal R&D payments among selected industries, by region, 1999-2000**

Selected industry	Atlantic Provinces	Que. <sup>1</sup>	Mtl.	Ont. <sup>2</sup>	Tor.	Man.	Sask.	Alta.	B.C.	NCR	Total <sup>3</sup>
in thousands of dollars											
Agriculture, forestry, fishing and hunting	2,061	297	4,321	407	25	104	165	43	1,437	105	8,974
Mining and oil and gas extraction	120	59	0	395	89	0	0	669	18	0	1,350
Utilities – Total	395	98	33	120	4,514	1	22	39	483	0	5,705
Construction	181	772	523	2,241	375	36	61	298	45	404	4,967
Machinery	769	2,920	168	1,865	4,504	57	195	153	1,268	24	11,923
Communications equipment	105	66	4,758	5,792	1,994	0	49	1,994	272	5,216	20,246
Navigational, measuring, medical and control instruments	1,800	510	10,766	1,162	90,115	7,322	4,205	295	88,521	2,579	207,277
Aerospace products and parts	9	0	56,872	165	8,950	11	0	15	818	0	66,840
Other manufacturing industries	4,191	13,074	16,712	5,507	12,286	1,412	939	3,057	30,875	17,267	105,367
Architectural, engineering and related services	2,988	1,983	4,726	1,999	6,572	536	133	3,774	1,711	9,793	34,257
Computer system design and related services	4,917	3,679	2,703	1,114	3,324	666	309	4,096	2,837	7,769	31,414
Scientific research and development	1,395	1,603	3,790	2,719	4,015	437	581	3,529	2,835	28,548	49,452
Other services	7,551	4,090	14,480	6,262	6,178	1,255	833	5,623	9,093	17,759	73,197
Unspecified industry code	3,596	3,852	2,533	2,216	2,337	625	675	1,025	1,601	2,335	96,126
<b>Total all industries</b>	<b>30,078</b>	<b>33,003</b>	<b>122,385</b>	<b>31,964</b>	<b>145,278</b>	<b>12,462</b>	<b>8,167</b>	<b>24,610</b>	<b>141,814</b>	<b>91,799</b>	<b>717,095</b>
<b>Percent</b>	<b>4.2</b>	<b>4.6</b>	<b>17.1</b>	<b>4.5</b>	<b>20.3</b>	<b>1.7</b>	<b>1.1</b>	<b>3.4</b>	<b>19.8</b>	<b>12.8</b>	<b>100.0</b>

1. Excluding Montreal (Mtl.) and National Capital Region (NCR).
2. Excluding Toronto (Tor.) and National Capital Region (NCR).
3. Includes region unallocated and Yukon, Northwest Territories and Nunavut.

**Table 17. Concentration of federal R&D payments among selected industries, by region, 2000-2001**

Selected industry	Atlantic Provinces	Que. <sup>1</sup>	Mtl.	Ont. <sup>2</sup>	Tor.	Man.	Sask.	Alta.	B.C.	NCR	Total <sup>3</sup>
in thousands of dollars											
Agriculture, forestry, fishing and hunting	2,034	286	1,686	480	36	34	84	309	385	119	5,462
Mining and oil and gas extraction	92	288	24	540	112	0	10	296	79	0	1,441
Utilities – Total	348	66	91	43	3,301	0	0	15	137	0	4,001
Construction	471	150	571	317	323	54	2	185	338	705	3,126
Machinery	1,023	1,633	11,228	1,662	4,641	42	74	102	867	1,691	22,963
Communications equipment	411	54	5,807	17,492	1,664	0	40	1,626	3,973	7,368	38,435
Navigational, measuring, medical and control instruments	2,744	189	8,718	1,099	17,119	8,322	4,428	505	7,588	1,377	52,096
Aerospace products and parts	33	0	83,003	160	9,156	5	0	53	6	0	92,416
Other manufacturing industries	3,182	19,113	6,393	6,255	30,717	389	482	1,980	14,403	8,544	91,516
Architectural, engineering and related services	4,147	1,523	7,149	2,015	34,549	126	425	3,122	3,885	10,244	67,304
Computer system design and related services	6,879	5,783	1,643	908	2,408	361	316	2,302	2,076	6,255	28,933
Scientific research and development	1,256	6,413	2,394	6,339	2,410	255	380	3,456	4,378	5,163	32,444
Other services	8,520	3,695	10,259	6,329	12,956	1,092	992	5,145	8,760	23,540	81,338
Unspecified industry code	2,808	4,599	3,621	2,800	3,714	490	517	1,738	2,376	2,027	99,214
<b>Total all industries</b>	<b>33,948</b>	<b>43,792</b>	<b>142,587</b>	<b>46,439</b>	<b>123,106</b>	<b>11,170</b>	<b>7,750</b>	<b>20,834</b>	<b>49,251</b>	<b>67,033</b>	<b>620,689</b>
<b>Percent</b>	<b>5.5</b>	<b>7.1</b>	<b>23.0</b>	<b>7.5</b>	<b>19.8</b>	<b>1.8</b>	<b>1.2</b>	<b>3.4</b>	<b>7.9</b>	<b>10.8</b>	<b>100.0</b>

1. Excluding Montreal (Mtl.) and National Capital Region (NCR).
2. Excluding Toronto (Tor.) and National Capital Region (NCR).
3. Includes region unallocated and Yukon, Northwest Territories and Nunavut.

## **Appendix II**

### **NAICS description and code**

NAICS description	NAICS 2002
<b><u>AGRICULTURE, FORESTRY, FISHING AND HUNTING</u></b>	
<b>AGRICULTURE</b>	
Soybean Farming	111110
Oilseed (except Soybean) Farming	111120
Dry Pea and Bean Farming	111130
Wheat Farming	111140
Corn Farming	111150
Rice Farming	111160
Other Grain Farming	111190
Potato Farming	111211
Other Vegetable (except Potato) and Melon Farming	111219
Orange Groves	111310
Citrus (except Orange) Groves	111320
Non-Citrus Fruit and Tree Nut Farming	111330
Mushroom Production	111411
Other Food Crops Grown Under Cover	111419
Nursery and Tree Production	111421
Floriculture Production	111422
Tobacco Farming	111910
Cotton Farming	111920
Sugar-Cane Farming	111930
Hay Farming	111940
Fruit and Vegetable Combination Farming	111993
All Other Miscellaneous Crop Farming	111999
Beef Cattle Ranching and Farming, including Feedlots	112110
Dairy Cattle and Milk Production	112120
Hog and Pig Farming	112210
Chicken Egg Production	112310
Broiler and Other Meat-Type Chicken Production	112320
Turkey Production	112330
Poultry Hatcheries	112340
Combination Poultry and Egg Production	112391
All Other Poultry Production	112399
Sheep Farming	112410
Goat Farming	112420
Apiculture	112910
Horse and Other Equine Production	112920
Fur-Bearing Animal and Rabbit Production	112930
Livestock Combination Farming	112991
All Other Miscellaneous Animal Production	112999
Support Activities for Crop Production	115110
Support Activities for Animal Production	115210
<b>FORESTRY AND LOGGING</b>	
Timber Tract Operations	113110
Forest Nurseries and Gathering of Forest Products	113210
Logging (except Contract)	113311
Contract Logging	113312
Support Activities for Forestry	115310



NAICS description	NAICS 2002
<b>FISHING, HUNTING AND TRAPPING</b>	
Animal Aquaculture	112510
Salt Water Fishing	114113
Inland Fishing	114114
Hunting and Trapping	114210
<b><u>MINING AND OIL AND GAS EXTRACTION</u></b>	
<b>OIL AND GAS EXTRACTION</b>	
Conventional Oil and Gas Extraction	211113
Non-Conventional Oil Extraction	211114
Oil and Gas Contract Drilling	213111
Services to Oil and Gas Extraction	213118
<b>MINING</b>	
Bituminous Coal Mining	212114
Subbituminous Coal Mining	212115
Lignite Coal Mining	212116
Iron Ore Mining	212210
Gold and Silver Ore Mining	212220
Lead-Zinc Ore Mining	212231
Nickel-Copper Ore Mining	212232
Copper-Zinc Ore Mining	212233
Uranium Ore Mining	212291
All Other Metal Ore Mining	212299
Granite Mining and Quarrying	212314
Limestone Mining and Quarrying	212315
Marble Mining and Quarrying	212316
Sandstone Mining and Quarrying	212317
Sand and Gravel Mining and Quarrying	212323
Shale, Clay and Refractory Mineral Mining and Quarrying	212326
Diamond Mines	212392
Salt Mines	212393
Asbestos Mining	212394
Gypsum Mining	212395
Potash Mining	212396
Peat Extraction	212397
All Other Non-Metallic Mineral Mining and Quarrying	212398
Contract Drilling (except Oil and Gas)	213117
Other Support Activities for Mining	213119
<b><u>UTILITIES</u></b>	
<b>ELECTRIC POWER</b>	
Hydro-Electric Power Generation	221111
Fossil-Fuel Electric Power Generation	221112
Nuclear Electric Power Generation	221113
Other Electric Power Generation	221119
Electric Bulk Power Transmission and Control	221121
Electric Power Distribution	221122

NAICS description	NAICS 2002
<b>OTHER UTILITIES</b>	
Natural Gas Distribution	221210
Water Supply and Irrigation Systems	221310
Sewage Treatment Facilities	221320
Steam and Air-Conditioning Supply	221330
Waste Collection	562110
Waste Treatment and Disposal	562210
Remediation Services	562910
Material Recovery Facilities	562920
All Other Waste Management Services	562990
<b><u>CONSTRUCTION</u></b>	
Residential Building Construction	236110
Industrial Building and Structure Construction	236210
Commercial and Institutional Building Construction	236220
Water and Sewer Line and Related Structures Construction	237110
Oil and Gas Pipeline and Related Structures Construction	237120
Power and Communication Line and Related Structures Construction	237130
Land Subdivision	237210
Highway, Street and Bridge Construction	237310
Other Heavy and Civil Engineering Construction	237990
Poured Concrete Foundation and Structure Contractors	238110
Structural Steel and Precast Concrete Contractors	238120
Framing Contractors	238130
Masonry Contractors	238140
Glass and Glazing Contractors	238150
Roofing Contractors	238160
Siding Contractors	238170
Other Foundation, Structure and Building Exterior Contractors	238190
Electrical Contractors	238210
Plumbing, Heating and Air-Conditioning Contractors	238220
Elevator and Escalator Installation Contractors	238291
All Other Building Equipment Contractors	238299
Drywall and Insulation Contractors	238310
Painting and Wall Covering Contractors	238320
Flooring Contractors	238330
Tile and Terrazzo Contractors	238340
Finish Carpentry Contractors	238350
Other Building Finishing Contractors	238390
Site Preparation Contractors	238910
All Other Specialty Trade Contractors	238990
<b><u>MANUFACTURING</u></b>	
<b>FOOD</b>	
Dog and Cat Food Manufacturing	311111
Other Animal Food Manufacturing	311119
Flour Milling	311211
Rice Milling and Malt Manufacturing	311214
Wet Corn Milling	311221
Oilseed Processing	311224
Fat and Oil Refining and Blending	311225
Breakfast Cereal Manufacturing	311230

<b>NAICS description</b>	<b>NAICS 2002</b>
Sugar Manufacturing	311310
Chocolate and Confectionery Manufacturing from Cacao Beans	311320
Confectionery Manufacturing from Purchased Chocolate	311330
Non-Chocolate Confectionery Manufacturing	311340
Frozen Food Manufacturing	311410
Fruit and Vegetable Canning, Pickling and Drying	311420
Fluid Milk Manufacturing	311511
Butter, Cheese, and Dry and Condensed Dairy Products Manufacturing	311515
Ice Cream and Frozen Dessert Manufacturing	311520
Animal (except Poultry) Slaughtering	311611
Rendering and Meat Processing from Carcasses	311614
Poultry Processing	311615
Seafood Product Preparation and Packaging	311710
Retail Bakeries	311811
Commercial Bakeries and Frozen Bakery Product Manufacturing	311814
Cookie and Cracker Manufacturing	311821
Flour Mixes and Dough Manufacturing from Purchased Flour	311822
Dry Pasta Manufacturing	311823
Tortilla Manufacturing	311830
Roasted Nut and Peanut Butter Manufacturing	311911
Other Snack Food Manufacturing	311919
Coffee and Tea Manufacturing	311920
Flavouring Syrup and Concentrate Manufacturing	311930
Seasoning and Dressing Manufacturing	311940
All Other Food Manufacturing	311990
 <b>BEVERAGES AND TOBACCO</b>	
Soft Drink and Ice Manufacturing	312110
Breweries	312120
Wineries	312130
Distilleries	312140
Tobacco Stemming and Redrying	312210
Tobacco Product Manufacturing	312220
 <b>TEXTILE</b>	
Fibre, Yarn and Thread Mills	313110
Broad-Woven Fabric Mills	313210
Narrow Fabric Mills and Schiffli Machine Embroidery	313220
Nonwoven Fabric Mills	313230
Knit Fabric Mills	313240
Textile and Fabric Finishing	313310
Fabric Coating	313320
Carpet and Rug Mills	314110
Curtain and Linen Mills	314120
Textile Bag and Canvas Mills	314910
All Other Textile Product Mills	314990
 <b>WOOD PRODUCTS</b>	
Sawmills (except Shingle and Shake Mills)	321111
Shingle and Shake Mills	321112
Wood Preservation	321114
Hardwood Veneer and Plywood Mills	321211
Softwood Veneer and Plywood Mills	321212

NAICS description	NAICS 2002
Structural Wood Product Manufacturing	321215
Particle Board and Fibreboard Mills	321216
Waferboard Mills	321217
Wood Window and Door Manufacturing	321911
Other Millwork	321919
Wood Container and Pallet Manufacturing	321920
Manufactured (Mobile) Home Manufacturing	321991
Prefabricated Wood Building Manufacturing	321992
All Other Miscellaneous Wood Product Manufacturing	321999
 <b>PAPER</b>	
Mechanical Pulp Mills	322111
Chemical Pulp Mills	322112
Paper (except Newsprint) Mills	322121
Newsprint Mills	322122
Paperboard Mills	322130
Corrugated and Solid Fibre Box Manufacturing	322211
Folding Paperboard Box Manufacturing	322212
Other Paperboard Container Manufacturing	322219
Paper Bag and Coated and Treated Paper Manufacturing	322220
Stationery Product Manufacturing	322230
Sanitary Paper Product Manufacturing	322291
All Other Converted Paper Product Manufacturing	322299
 <b>PRINTING</b>	
Commercial Screen Printing	323113
Quick Printing	323114
Digital Printing	323115
Manifold Business Forms Printing	323116
Other Printing	323119
Support Activities for Printing	323120
 <b>PETROLEUM AND COAL PRODUCTS</b>	
Petroleum Refineries	324110
Asphalt Paving Mixture and Block Manufacturing	324121
Asphalt Shingle and Coating Material Manufacturing	324122
Other Petroleum and Coal Products Manufacturing	324190
 <b>PHARMACEUTICAL AND MEDICINE</b>	
Pharmaceutical and Medicine Manufacturing	325410
 <b>OTHER CHEMICAL</b>	
Petrochemical Manufacturing	325110
Industrial Gas Manufacturing	325120
Synthetic Dye and Pigment Manufacturing	325130
Alkali and Chlorine Manufacturing	325181
All Other Basic Inorganic Chemical Manufacturing	325189
Other Basic Organic Chemical Manufacturing	325190
Resin and Synthetic Rubber Manufacturing	325210
Artificial and Synthetic Fibres and Filaments Manufacturing	325220
Chemical Fertilizer (except Potash) Manufacturing	325313

<b>NAICS description</b>	<b>NAICS 2002</b>
Mixed Fertilizer Manufacturing	325314
Pesticide and Other Agricultural Chemical Manufacturing	325320
Paint and Coating Manufacturing	325510
Adhesive Manufacturing	325520
Soap and Cleaning Compound Manufacturing	325610
Toilet Preparation Manufacturing	325620
Printing Ink Manufacturing	325910
Explosives Manufacturing	325920
Custom Compounding of Purchased Resins	325991
All Other Miscellaneous Chemical Product Manufacturing	325999
 <b>PLASTIC PRODUCT</b>	
Unsupported Plastic Bag Manufacturing	326111
Unsupported Plastic Film and Sheet Manufacturing	326114
Unsupported Plastic Profile Shape Manufacturing	326121
Plastic Pipe and Pipe Fitting Manufacturing	326122
Laminated Plastic Plate, Sheet and Shape Manufacturing	326130
Polystyrene Foam Product Manufacturing	326140
Urethane and Other Foam Product (except Polystyrene) Manufacturing	326150
Plastic Bottle Manufacturing	326160
Plastic Plumbing Fixture Manufacturing	326191
Motor Vehicle Plastic Parts Manufacturing	326193
All Other Plastic Product Manufacturing	326198
 <b>RUBBER PRODUCT</b>	
Tire Manufacturing	326210
Rubber and Plastic Hose and Belting Manufacturing	326220
Other Rubber Product Manufacturing	326290
 <b>NON-METALLIC MINERAL PRODUCT</b>	
Pottery, Ceramics and Plumbing Fixture Manufacturing	327110
Clay Building Material and Refractory Manufacturing	327120
Glass Manufacturing	327214
Glass Product Manufacturing from Purchased Glass	327215
Cement Manufacturing	327310
Ready-Mix Concrete Manufacturing	327320
Concrete Pipe, Brick and Block Manufacturing	327330
Other Concrete Product Manufacturing	327390
Lime Manufacturing	327410
Gypsum Product Manufacturing	327420
Abrasive Product Manufacturing	327910
All Other Non-Metallic Mineral Product Manufacturing	327990
 <b>PRIMARY METAL (FERROUS)</b>	
Iron and Steel Mills and Ferro-Alloy Manufacturing	331110
Iron and Steel Pipes and Tubes Manufacturing from Purchased Steel	331210
Cold-Rolled Steel Shape Manufacturing	331221
Steel Wire Drawing	331222
Iron Foundries	331511
Steel Foundries	331514

NAICS description	NAICS 2002
<b>PRIMARY METAL (NON-FERROUS)</b>	
Primary Production of Alumina and Aluminum	331313
Aluminum Rolling, Drawing, Extruding and Alloying	331317
Non-Ferrous Metal (except Aluminum) Smelting and Refining	331410
Copper Rolling, Drawing, Extruding and Alloying	331420
Non-Ferrous Metal (except Copper and Aluminum) Rolling, Drawing, Extruding and Alloying	331490
Non-Ferrous Die-Casting Foundries	331523
Non-Ferrous Foundries (except Die-Casting)	331529
<b>FABRICATED METAL PRODUCT</b>	
Forging	332113
Stamping	332118
Cutlery and Hand Tool Manufacturing	332210
Prefabricated Metal Building and Component Manufacturing	332311
Concrete Reinforcing Bar Manufacturing	332314
Other Plate Work and Fabricated Structural Product Manufacturing	332319
Metal Window and Door Manufacturing	332321
Other Ornamental and Architectural Metal Products Manufacturing	332329
Power Boiler and Heat Exchanger Manufacturing	332410
Metal Tank (Heavy Gauge) Manufacturing	332420
Metal Can Manufacturing	332431
Other Metal Container Manufacturing	332439
Hardware Manufacturing	332510
Spring (Heavy Gauge) Manufacturing	332611
Other Fabricated Wire Product Manufacturing	332619
Machine Shops	332710
Turned Product and Screw, Nut and Bolt Manufacturing	332720
Coating, Engraving, Heat Treating and Allied Activities	332810
Metal Valve Manufacturing	332910
Ball and Roller Bearing Manufacturing	332991
All Other Miscellaneous Fabricated Metal Product Manufacturing	332999
<b>MACHINERY</b>	
Agricultural Implement Manufacturing	333110
Construction Machinery Manufacturing	333120
Mining and Oil and Gas Field Machinery Manufacturing	333130
Sawmill and Woodworking Machinery Manufacturing	333210
Rubber and Plastics Industry Machinery Manufacturing	333220
Paper Industry Machinery Manufacturing	333291
All Other Industrial Machinery Manufacturing	333299
Commercial and Service Industry Machinery Manufacturing	333310
Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing	333413
Heating Equipment and Commercial Refrigeration Equipment Manufacturing	333416
Industrial Mould Manufacturing	333511
Other Metalworking Machinery Manufacturing	333519
Turbine and Turbine Generator Set Unit Manufacturing	333611
Other Engine and Power Transmission Equipment Manufacturing	333619
Pump and Compressor Manufacturing	333910
Material Handling Equipment Manufacturing	333920
All Other General-Purpose Machinery Manufacturing	333990

NAICS description	NAICS 2002
<b>COMPUTER AND PERIPHERAL EQUIPMENT</b>	
Computer and Peripheral Equipment Manufacturing	334110
<b>COMMUNICATIONS EQUIPMENT</b>	
Telephone Apparatus Manufacturing	334210
Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing	334220
Other Communications Equipment Manufacturing	334290
<b>SEMICONDUCTOR AND OTHER ELECTRONIC COMPONENT</b>	
Semiconductor and Other Electronic Component Manufacturing	334410
<b>NAVIGATIONAL, MEASURING, MEDICAL AND CONTROL INSTRUMENTS</b>	
Navigational and Guidance Instruments Manufacturing	334511
Measuring, Medical and Controlling Devices Manufacturing	334512
<b>OTHER COMPUTER AND ELECTRONIC PRODUCT</b>	
Audio and Video Equipment Manufacturing	334310
Manufacturing and Reproducing Magnetic and Optical Media	334610
<b>ELECTRICAL EQUIPMENT, APPLIANCE AND COMPONENT</b>	
Electric Lamp Bulb and Parts Manufacturing	335110
Lighting Fixture Manufacturing	335120
Small Electrical Appliance Manufacturing	335210
Major Kitchen Appliance Manufacturing	335223
Other Major Appliance Manufacturing	335229
Power, Distribution and Specialty Transformers Manufacturing	335311
Motor and Generator Manufacturing	335312
Switchgear and Switchboard, and Relay and Industrial Control Apparatus Manufacturing	335315
Battery Manufacturing	335910
Communication and Energy Wire and Cable Manufacturing	335920
Wiring Device Manufacturing	335930
All Other Electrical Equipment and Component Manufacturing	335990
<b>MOTOR VEHICLE AND PARTS</b>	
Automobile and Light-Duty Motor Vehicle Manufacturing	336110
Heavy-Duty Truck Manufacturing	336120
Motor Vehicle Body Manufacturing	336211
Truck Trailer Manufacturing	336212
Motor Home, Travel Trailer and Camper Manufacturing	336215
Motor Vehicle Gasoline Engine and Engine Parts Manufacturing	336310
Motor Vehicle Electrical and Electronic Equipment Manufacturing	336320
Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing	336330
Motor Vehicle Brake System Manufacturing	336340
Motor Vehicle Transmission and Power Train Parts Manufacturing	336350
Motor Vehicle Seating and Interior Trim Manufacturing	336360
Motor Vehicle Metal Stamping	336370
Other Motor Vehicle Parts Manufacturing	336390

NAICS description	NAICS 2002
<b>AEROSPACE PRODUCT AND PARTS</b>	
Aerospace Product and Parts Manufacturing	336410
<b>ALL OTHER TRANSPORTATION EQUIPMENT</b>	
Railroad Rolling Stock Manufacturing	336510
Ship Building and Repairing	336611
Boat Building	336612
Other Transportation Equipment Manufacturing	336990
<b>FURNITURE AND RELATED PRODUCT</b>	
Wood Kitchen Cabinet and Counter Top Manufacturing	337110
Upholstered Household Furniture Manufacturing	337121
Other Wood Household Furniture Manufacturing	337123
Household Furniture (except Wood and Upholstered) Manufacturing	337126
Institutional Furniture Manufacturing	337127
Wood Office Furniture, including Custom Architectural Woodwork, Manufacturing	337213
Office Furniture (except Wood) Manufacturing	337214
Showcase, Partition, Shelving and Locker Manufacturing	337215
Mattress Manufacturing	337910
Blind and Shade Manufacturing	337920
<b>OTHER MANUFACTURING INDUSTRIES</b>	
Hosiery and Sock Mills	315110
Other Clothing Knitting Mills	315190
Cut and Sew Clothing Contracting	315210
Men's and Boys' Cut and Sew Underwear and Nightwear Manufacturing	315221
Men's and Boys' Cut and Sew Suit, Coat and Overcoat Manufacturing	315222
Men's and Boys' Cut and Sew Shirt Manufacturing	315226
Men's and Boys' Cut and Sew Trouser, Slack and Jean Manufacturing	315227
Other Men's and Boys' Cut and Sew Clothing Manufacturing	315229
Women's and Girls' Cut and Sew Lingerie, Loungewear and Nightwear Manufacturing	315231
Women's and Girls' Cut and Sew Blouse and Shirt Manufacturing	315232
Women's and Girls' Cut and Sew Dress Manufacturing	315233
Women's and Girls' Cut and Sew Suit, Coat, Tailored Jacket and Skirt Manufacturing	315234
Other Women's and Girls' Cut and Sew Clothing Manufacturing	315239
Infants' Cut and Sew Clothing Manufacturing	315291
Fur and Leather Clothing Manufacturing	315292
All Other Cut and Sew Clothing Manufacturing	315299
Clothing Accessories and Other Clothing Manufacturing	315990
Leather and Hide Tanning and Finishing	316110
Footwear Manufacturing	316210
Other Leather and Allied Product Manufacturing	316990
Medical Equipment and Supplies Manufacturing	339110
Jewellery and Silverware Manufacturing	339910
Sporting and Athletic Goods Manufacturing	339920
Doll, Toy and Game Manufacturing	339930
Office Supplies (except Paper) Manufacturing	339940
Sign Manufacturing	339950
All Other Miscellaneous Manufacturing	339990



NAICS description	NAICS 2002
<b><u>SERVICES</u></b>	
<b>WHOLESALE TRADE</b>	
Live Animal Wholesaler-Distributors	411110
Oilseed and Grain Wholesaler-Distributors	411120
Nursery Stock and Plant Wholesaler-Distributors	411130
Other Farm Product Wholesaler-Distributors	411190
Petroleum Product Wholesaler-Distributors	412110
General-Line Food Wholesaler-Distributors	413110
Dairy and Milk Products Wholesaler-Distributors	413120
Poultry and Egg Wholesaler-Distributors	413130
Fish and Seafood Product Wholesaler-Distributors	413140
Fresh Fruit and Vegetable Wholesaler-Distributors	413150
Red Meat and Meat Product Wholesaler-Distributors	413160
Other Specialty-Line Food Wholesaler-Distributors	413190
Non-Alcoholic Beverage Wholesaler-Distributors	413210
Alcoholic Beverage Wholesaler-Distributors	413220
Cigarette and Tobacco Product Wholesaler-Distributors	413310
Clothing and Clothing Accessories Wholesaler-Distributors	414110
Footwear Wholesaler-Distributors	414120
Piece Goods, Notions and Other Dry Goods Wholesaler-Distributors	414130
Home Entertainment Equipment Wholesaler-Distributors	414210
Household Appliance Wholesaler-Distributors	414220
China, Glassware, Crockery and Pottery Wholesaler-Distributors	414310
Floor Covering Wholesaler-Distributors	414320
Linen, Drapery and Other Textile Furnishings Wholesaler-Distributors	414330
Other Home Furnishings Wholesaler-Distributors	414390
Jewellery and Watch Wholesaler-Distributors	414410
Book, Periodical and Newspaper Wholesaler-Distributors	414420
Photographic Equipment and Supplies Wholesaler-Distributors	414430
Sound Recording Wholesalers	414440
Video Cassette Wholesalers	414450
Toy and Hobby Goods Wholesaler-Distributors	414460
Amusement and Sporting Goods Wholesaler-Distributors	414470
Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors	414510
Toiletries, Cosmetics and Sundries Wholesaler-Distributors	414520
New and Used Automobile and Light-Duty Truck Wholesaler-Distributors	415110
Truck, Truck Tractor and Bus Wholesaler-Distributors	415120
Recreational and Other Motor Vehicles Wholesaler-Distributors	415190
Tire Wholesaler-Distributors	415210
Other New Motor Vehicle Parts and Accessories Wholesaler-Distributors	415290
Used Motor Vehicle Parts and Accessories Wholesaler-Distributors	415310
Electrical Wiring and Construction Supplies Wholesaler-Distributors	416110
Plumbing, Heating and Air-Conditioning Equipment and Supplies Wholesaler-Distributors	416120
Metal Service Centres	416210
General-Line Building Supplies Wholesaler-Distributors	416310
Lumber, Plywood and Millwork Wholesaler-Distributors	416320
Hardware Wholesaler-Distributors	416330
Paint, Glass and Wallpaper Wholesaler-Distributors	416340
Other Specialty-Line Building Supplies Wholesaler-Distributors	416390
Farm, Lawn and Garden Machinery and Equipment Wholesaler-Distributors	417110
Construction and Forestry Machinery, Equipment and Supplies Wholesaler-Distributors	417210
Mining and Oil and Gas Well Machinery, Equipment and Supplies Wholesaler-Distributors	417220
Industrial Machinery, Equipment and Supplies Wholesaler-Distributors	417230
Computer, Computer Peripheral and Pre-Packaged Software Wholesaler-Distributors	417310

NAICS description	NAICS 2002
Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors	417320
Office and Store Machinery and Equipment Wholesaler-Distributors	417910
Service Establishment Machinery, Equipment and Supplies Wholesaler-Distributors	417920
Professional Machinery, Equipment and Supplies Wholesaler-Distributors	417930
All Other Machinery, Equipment and Supplies Wholesaler-Distributors	417990
Recyclable Metal Wholesaler-Distributors	418110
Recyclable Paper and Paperboard Wholesaler-Distributors	418120
Other Recyclable Material Wholesaler-Distributors	418190
Stationery and Office Supplies Wholesaler-Distributors	418210
Other Paper and Disposable Plastic Product Wholesaler-Distributors	418220
Agricultural Feed Wholesaler-Distributors	418310
Seed Wholesaler-Distributors	418320
Agricultural Chemical and Other Farm Supplies Wholesaler-Distributors	418390
Chemical (except Agricultural) and Allied Product Wholesaler-Distributors	418410
Log and Wood Chip Wholesaler-Distributors	418910
Mineral, Ore and Precious Metal Wholesaler-Distributors	418920
Second-Hand Goods (except Machinery and Automotive) Wholesaler-Distributors	418930
All Other Wholesaler-Distributors	418990
Farm Product Agents and Brokers	419110
Petroleum Product Agents and Brokers	419120
Food, Beverage and Tobacco Agents and Brokers	419130
Personal and Household Goods Agents and Brokers	419140
Motor Vehicle and Parts Agents and Brokers	419150
Building Material and Supplies Agents and Brokers	419160
Machinery, Equipment and Supplies Agents and Brokers	419170
Other Wholesale Agents and Brokers	419190
 <b>RETAIL TRADE</b>	
New Car Dealers	441110
Used Car Dealers	441120
Recreational Vehicle Dealers	441210
Motorcycle, Boat and Other Motor Vehicle Dealers	441220
Automotive Parts and Accessories Stores	441310
Tire Dealers	441320
Furniture Stores	442110
Floor Covering Stores	442210
Window Treatment Stores	442291
Print and Picture Frame Stores	442292
All Other Home Furnishings Stores	442298
Appliance, Television and Other Electronics Stores	443110
Computer and Software Stores	443120
Camera and Photographic Supplies Stores	443130
Home Centres	444110
Paint and Wallpaper Stores	444120
Hardware Stores	444130
Other Building Material Dealers	444190
Outdoor Power Equipment Stores	444210
Nursery and Garden Centres	444220
Supermarkets and Other Grocery (except Convenience) Stores	445110
Convenience Stores	445120
Meat Markets	445210
Fish and Seafood Markets	445220
Fruit and Vegetable Markets	445230
Baked Goods Stores	445291
Confectionery and Nut Stores	445292

NAICS description	NAICS 2002
All Other Specialty Food Stores	445299
Beer, Wine and Liquor Stores	445310
Pharmacies and Drug Stores	446110
Cosmetics, Beauty Supplies and Perfume Stores	446120
Optical Goods Stores	446130
Food (Health) Supplement Stores	446191
All Other Health and Personal Care Stores	446199
Gasoline Stations with Convenience Stores	447110
Other Gasoline Stations	447190
Men's Clothing Stores	448110
Women's Clothing Stores	448120
Children's and Infants' Clothing Stores	448130
Family Clothing Stores	448140
Clothing Accessories Stores	448150
Fur Stores	448191
All Other Clothing Stores	448199
Shoe Stores	448210
Jewellery Stores	448310
Luggage and Leather Goods Stores	448320
Sporting Goods Stores	451110
Hobby, Toy and Game Stores	451120
Sewing, Needlework and Piece Goods Stores	451130
Musical Instrument and Supplies Stores	451140
Book Stores and News Dealers	451210
Pre-Recorded Tape, Compact Disc and Record Stores	451220
Department Stores	452110
Warehouse Clubs and Superstores	452910
Home and Auto Supplies Stores	452991
All Other Miscellaneous General Merchandise Stores	452999
Florists	453110
Office Supplies and Stationery Stores	453210
Gift, Novelty and Souvenir Stores	453220
Used Merchandise Stores	453310
Pet and Pet Supplies Stores	453910
Art Dealers	453920
Manufactured (Mobile) Home Dealers	453930
Beer and Wine-Making Supplies Stores	453992
All Other Miscellaneous Store Retailers (except Beer and Wine-Making Supplies Stores)	453999
Electronic Shopping and Mail-Order Houses	454110
Vending Machine Operators	454210
Fuel Dealers	454310
Other Direct Selling Establishments	454390
 <b>TRANSPORTATION AND WAREHOUSING</b>	
Scheduled Air Transportation	481110
Non-Scheduled Chartered Air Transportation	481214
Non-Scheduled Specialty Flying Services	481215
Short-Haul Freight Rail Transportation	482112
Mainline Freight Rail Transportation	482113
Passenger Rail Transportation	482114
Deep Sea, Coastal and Great Lakes Water Transportation (except by Ferries)	483115
Deep Sea, Coastal and Great Lakes Water Transportation by Ferries	483116
Inland Water Transportation (except by Ferries)	483213
Inland Water Transportation by Ferries	483214
General Freight Trucking, Local	484110

NAICS description	NAICS 2002
General Freight Trucking, Long Distance, Truck-Load	484121
General Freight Trucking, Long Distance, Less Than Truck-Load	484122
Used Household and Office Goods Moving	484210
Bulk Liquids Trucking, Local	484221
Dry Bulk Materials Trucking, Local	484222
Forest Products Trucking, Local	484223
Other Specialized Freight (except Used Goods) Trucking, Local	484229
Bulk Liquids Trucking, Long Distance	484231
Dry Bulk Materials Trucking, Long Distance	484232
Forest Products Trucking, Long Distance	484233
Other Specialized Freight (except Used Goods) Trucking, Long Distance	484239
Urban Transit Systems	485110
Interurban and Rural Bus Transportation	485210
Taxi Service	485310
Limousine Service	485320
School and Employee Bus Transportation	485410
Charter Bus Industry	485510
Other Transit and Ground Passenger Transportation	485990
Pipeline Transportation of Crude Oil	486110
Pipeline Transportation of Natural Gas	486210
Pipeline Transportation of Refined Petroleum Products	486910
All Other Pipeline Transportation	486990
Scenic and Sightseeing Transportation, Land	487110
Scenic and Sightseeing Transportation, Water	487210
Scenic and Sightseeing Transportation, Other	487990
Air Traffic Control	488111
Other Airport Operations	488119
Other Support Activities for Air Transportation	488190
Support Activities for Rail Transportation	488210
Port and Harbour Operations	488310
Marine Cargo Handling	488320
Marine Salvage Services	488331
Ship Piloting Services	488332
Other Navigational Services to Shipping	488339
Other Support Activities for Water Transportation	488390
Motor Vehicle Towing	488410
Other Support Activities for Road Transportation	488490
Marine Shipping Agencies	488511
Other Freight Transportation Arrangement	488519
Other Support Activities for Transportation	488990
Postal Service	491110
Couriers	492110
Local Messengers and Local Delivery	492210
General Warehousing and Storage	493110
Refrigerated Warehousing and Storage	493120
Farm Product Warehousing and Storage	493130
Other Warehousing and Storage	493190
 <b>INFORMATION AND CULTURAL INDUSTRIES</b>	
Newspaper Publishers	511110
Periodical Publishers	511120
Book Publishers	511130
Database and Directory Publishers	511140
Other Publishers	511190
Software Publishers	511210

<b>NAICS description</b>	<b>NAICS 2002</b>
Motion Picture and Video Production	512110
Motion Picture and Video Distribution	512120
Motion Picture and Video Exhibition	512130
Post-Production and Other Motion Picture and Video Industries	512190
Record Production	512210
Integrated Record Production/Distribution	512220
Music Publishers	512230
Sound Recording Studios	512240
Other Sound Recording Industries	512290
Radio Broadcasting	515110
Television Broadcasting	515120
Pay and Specialty Television	515210
Internet Publishing and Broadcasting	516110
Wired Telecommunications Carriers	517110
Wireless Telecommunications Carriers (except Satellite)	517210
Telecommunications Resellers	517310
Satellite Telecommunications	517410
Cable and Other Program Distribution	517510
Other Telecommunications	517910
Internet Service Providers	518111
Web Search Portals	518112
Data Processing, Hosting, and Related Services	518210
News Syndicates	519110
Libraries	519121
Archives	519122
All Other Information Services	519190
 <b>FINANCE, INSURANCE AND REAL ESTATE</b>	
Monetary Authorities - Central Bank	521110
Personal and Commercial Banking Industry	522111
Corporate and Institutional Banking Industry	522112
Local Credit Unions	522130
Other Depository Credit Intermediation	522190
Credit Card Issuing	522210
Sales Financing	522220
Consumer Lending	522291
All Other Non-Depository Credit Intermediation	522299
Mortgage and Non-mortgage Loan Brokers	522310
Central Credit Unions	522321
Other Financial Transactions Processing and Clearing House Activities	522329
Other Activities Related to Credit Intermediation	522390
Investment Banking and Securities Dealing	523110
Securities Brokerage	523120
Commodity Contracts Dealing	523130
Commodity Contracts Brokerage	523140
Securities and Commodity Exchanges	523210
Miscellaneous Intermediation	523910
Portfolio Management	523920
Investment Advice	523930
All Other Financial Investment Activities	523990
Direct Individual Life, Health and Medical Insurance Carriers	524111
Direct Group Life, Health and Medical Insurance Carriers	524112
Direct General Property and Casualty Insurance Carriers	524121
Direct, Private, Automobile Insurance Carriers	524122
Direct, Public, Automobile Insurance Carriers	524123
Direct Property Insurance Carriers	524124

<b>NAICS description</b>	<b>NAICS 2002</b>
Direct Liability Insurance Carriers	524125
Other Direct Insurance (except Life, Health and Medical) Carriers	524129
Life Reinsurance Carriers	524131
Accident and Sickness Reinsurance Carriers	524132
Automobile Reinsurance Carriers	524133
Property Reinsurance Carriers	524134
Liability Reinsurance Carriers	524135
General and Other Reinsurance Carriers	524139
Insurance Agencies and Brokerages	524210
Claims Adjusters	524291
All Other Insurance Related Activities	524299
Trusted Pension Funds	526111
Non-Trusted Pension Funds	526112
Equity Funds - Canadian	526911
Equity Funds - Foreign	526912
Mortgage Funds	526913
Money Market Funds	526914
Bond and Income / Dividend Funds - Canadian	526915
Bond and Income / Dividend Funds - Foreign	526916
Balanced Funds / Asset Allocation Funds	526917
Other Open-Ended Funds	526919
Mortgage Investment Funds	526920
Segregated (except Pension) Funds	526930
Securitization Vehicles	526981
All Other Miscellaneous Funds and Financial Vehicles	526989
Lessors of Residential Buildings and Dwellings (except Social Housing Projects)	531111
Lessors of Social Housing Projects	531112
Lessors of Non-Residential Buildings (except Mini-Warehouses)	531120
Self-Storage Mini-Warehouses	531130
Lessors of Other Real Estate Property	531190
Offices of Real Estate Agents and Brokers	531210
Real Estate Property Managers	531310
Offices of Real Estate Appraisers	531320
Other Activities Related to Real Estate	531390
Passenger Car Rental	532111
Passenger Car Leasing	532112
Truck, Utility Trailer and RV (Recreational Vehicle) Rental and Leasing	532120
Consumer Electronics and Appliance Rental	532210
Formal Wear and Costume Rental	532220
Video Tape and Disc Rental	532230
Other Consumer Goods Rental	532290
General Rental Centres	532310
Construction, Transportation, Mining, and Forestry Machinery and Equipment Rental and Leasing	532410
Office Machinery and Equipment Rental and Leasing	532420
Other Commercial and Industrial Machinery and Equipment Rental and Leasing	532490
Lessors of Non-Financial Intangible Assets (Except Copyrighted Works)	533110
 <b>ARCHITECTURAL, ENGINEERING AND RELATED SERVICES</b>	
Architectural Services	541310
Landscape Architectural Services	541320
Engineering Services	541330
Drafting Services	541340
Building Inspection Services	541350
Geophysical Surveying and Mapping Services	541360
Surveying and Mapping (except Geophysical) Services	541370
Testing Laboratories	541380

NAICS description	NAICS 2002
<b>COMPUTER SYSTEM DESIGN AND RELATED SERVICES</b>	
Computer Systems Design and Related Services	541510
<b>MANAGEMENT, SCIENTIFIC AND TECHNICAL CONSULTING SERVICES</b>	
Administrative Management and General Management Consulting Services	541611
Human Resource and Executive Search Consulting Services	541612
Other Management Consulting Services	541619
Environmental Consulting Services	541620
Other Scientific and Technical Consulting Services	541690
<b>SCIENTIFIC RESEARCH AND DEVELOPMENT</b>	
Research and Development in the Physical, Engineering and Life Sciences	541710
Research and Development in the Social Sciences and Humanities	541720
<b>HEALTH CARE AND SOCIAL ASSISTANCE</b>	
Offices of Physicians	621110
Offices of Dentists	621210
Offices of Chiropractors	621310
Offices of Optometrists	621320
Offices of Mental Health Practitioners (except Physicians)	621330
Offices of Physical, Occupational, and Speech Therapists and Audiologists	621340
Offices of All Other Health Practitioners	621390
Family Planning Centres	621410
Out-Patient Mental Health and Substance Abuse Centres	621420
Community Health Centres	621494
All Other Out-Patient Care Centres	621499
Medical and Diagnostic Laboratories	621510
Home Health Care Services	621610
Ambulance (except Air Ambulance) Services	621911
Air Ambulance Services	621912
All Other Ambulatory Health Care Services	621990
General (except Paediatric) Hospitals	622111
Paediatric Hospitals	622112
Psychiatric and Substance Abuse Hospitals	622210
Specialty (except Psychiatric and Substance Abuse) Hospitals	622310
Nursing Care Facilities	623110
Residential Developmental Handicap Facilities	623210
Residential Substance Abuse Facilities	623221
Homes for the Psychiatrically Disabled	623222
Community Care Facilities for the Elderly	623310
Transition Homes for Women	623991
Homes for Emotionally Disturbed Children	623992
Homes for the Physically Handicapped or Disabled	623993
All Other Residential Care Facilities	623999
Child and Youth Services	624110
Services for the Elderly and Persons with Disabilities	624120
Other Individual and Family Services	624190
Community Food Services	624210
Community Housing Services	624220
Emergency and Other Relief Services	624230
Vocational Rehabilitation Services	624310
Child Day-Care Services	624410

NAICS description	NAICS 2002
<b>ALL OTHER SERVICES</b>	
Offices of Lawyers	541110
Offices of Notaries	541120
Other Legal Services	541190
Offices of Accountants	541212
Tax Preparation Services	541213
Bookkeeping, Payroll and Related Services	541215
Interior Design Services	541410
Industrial Design Services	541420
Graphic Design Services	541430
Other Specialized Design Services	541490
Advertising Agencies	541810
Public Relations Services	541820
Media Buying Agencies	541830
Media Representatives	541840
Display Advertising	541850
Direct Mail Advertising	541860
Advertising Material Distribution Services	541870
Specialty Advertising Distributors	541891
All Other Services Related to Advertising	541899
Marketing Research and Public Opinion Polling	541910
Photographic Services	541920
Translation and Interpretation Services	541930
Veterinary Services	541940
All Other Professional, Scientific and Technical Services	541990
Holding Companies	551113
Head Offices	551114
Office Administrative Services	561110
Facilities Support Services	561210
Employment Placement Agencies	561310
Temporary Help Services	561320
Employee Leasing Services	561330
Document Preparation Services	561410
Telephone Call Centres	561420
Business Service Centres	561430
Collection Agencies	561440
Credit Bureaus	561450
Other Business Support Services	561490
Travel Agencies	561510
Tour Operators	561520
Other Travel Arrangement and Reservation Services	561590
Investigation Services	561611
Security Guard and Patrol Services	561612
Armoured Car Services	561613
Security Systems Services (except Locksmiths)	561621
Locksmiths	561622
Exterminating and Pest Control Services	561710
Window Cleaning Services	561721
Janitorial Services (except Window Cleaning)	561722
Landscaping Services	561730
Carpet and Upholstery Cleaning Services	561740
Duct and Chimney Cleaning Services	561791
All Other Services to Buildings and Dwellings	561799
Packaging and Labelling Services	561910
Convention and Trade Show Organizers	561920



NAICS description	NAICS 2002
All Other Support Services	561990
Elementary and Secondary Schools	611110
Community Colleges and C.E.G.E.P.s	611210
Universities	611310
Business and Secretarial Schools	611410
Computer Training	611420
Professional and Management Development Training	611430
Technical and Trade Schools	611510
Fine Arts Schools	611610
Athletic Instruction	611620
Language Schools	611630
All Other Schools and Instruction	611690
Educational Support Services	611710
Theatre (except Musical) Companies	711111
Musical Theatre and Opera Companies	711112
Dance Companies	711120
Musical Groups and Artists	711130
Other Performing Arts Companies	711190
Sports Teams and Clubs	711211
Horse Race Tracks	711213
Other Spectator Sports	711218
Live Theatres and Other Performing Arts Presenters with Facilities	711311
Sports Stadiums and Other Presenters with Facilities	711319
Performing Arts Promoters (Presenters) without Facilities	711321
Festivals without Facilities	711322
Sports Presenters and Other Presenters without Facilities	711329
Agents and Managers for Artists, Athletes, Entertainers and Other Public Figures	711410
Independent Artists, Writers and Performers	711510
Non-Commercial Art Museums and Galleries	712111
Museums (except Art Museums and Galleries)	712119
Historic and Heritage Sites	712120
Zoos and Botanical Gardens	712130
Other Heritage Institutions	712190
Amusement and Theme Parks	713110
Amusement Arcades	713120
Casinos (except Casino Hotels)	713210
Lotteries	713291
All Other Gambling Industries	713299
Golf Courses and Country Clubs	713910
Skiing Facilities	713920
Marinas	713930
Fitness and Recreational Sports Centres	713940
Bowling Centres	713950
All Other Amusement and Recreation Industries	713990
Hotels	721111
Motor Hotels	721112
Resorts	721113
Motels	721114
Casino Hotels	721120
Bed and Breakfast	721191
Housekeeping Cottages and Cabins	721192
All Other Traveller Accommodation	721198
RV (Recreational Vehicle) Parks and Campgrounds	721211
Hunting and Fishing Camps	721212
Recreational (except Hunting and Fishing) and Vacation Camps	721213
Rooming and Boarding Houses	721310

NAICS description	NAICS 2002
Full-Service Restaurants	722110
Limited-Service Eating Places	722210
Food Service Contractors	722310
Caterers	722320
Mobile Food Services	722330
Drinking Places (Alcoholic Beverages)	722410
General Automotive Repair	811111
Automotive Exhaust System Repair	811112
Other Automotive Mechanical and Electrical Repair and Maintenance	811119
Automotive Body, Paint and Interior Repair and Maintenance	811121
Automotive Glass Replacement Shops	811122
Car Washes	811192
All Other Automotive Repair and Maintenance	811199
Electronic and Precision Equipment Repair and Maintenance	811210
Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	811310
Home and Garden Equipment Repair and Maintenance	811411
Appliance Repair and Maintenance	811412
Reupholstery and Furniture Repair	811420
Footwear and Leather Goods Repair	811430
Other Personal and Household Goods Repair and Maintenance	811490
Barber Shops	812114
Beauty Salons	812115
Unisex Hair Salons	812116
Other Personal Care Services	812190
Funeral Homes	812210
Cemeteries and Crematoria	812220
Coin-Operated Laundries and Dry Cleaners	812310
Dry Cleaning and Laundry Services (except Coin-Operated)	812320
Linen and Uniform Supply	812330
Pet Care (except Veterinary) Services	812910
Photo Finishing Laboratories (except One-Hour)	812921
One-Hour Photo Finishing	812922
Parking Lots and Garages	812930
All Other Personal Services	812990
Religious Organizations	813110
Grant-Making and Giving Services	813210
Social Advocacy Organizations	813310
Civic and Social Organizations	813410
Business Associations	813910
Professional Organizations	813920
Labour Organizations	813930
Political Organizations	813940
Other Membership Organizations	813990
Private Households	814110
Defence Services	911110
Federal Courts of Law	911210
Federal Correctional Services	911220
Federal Police Services	911230
Federal Regulatory Services	911240
Other Federal Protective Services	911290
Federal Labour and Employment Services	911310
Immigration Services	911320
Other Federal Labour, Employment and Immigration Services	911390
Foreign Affairs	911410
International Assistance	911420
Other Federal Government Public Administration	911910

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<b>NAICS description</b>	<b>NAICS 2002</b>
Provincial Courts of Law	912110
Provincial Correctional Services	912120
Provincial Police Services	912130
Provincial Fire-Fighting Services	912140
Provincial Regulatory Services	912150
Other Provincial Protective Services	912190
Provincial Labour and Employment Services	912210
Other Provincial and Territorial Public Administration	912910
Municipal Courts of Law	913110
Municipal Correctional Services	913120
Municipal Police Services	913130
Municipal Fire-Fighting Services	913140
Municipal Regulatory Services	913150
Other Municipal Protective Services	913190
Other Local, Municipal and Regional Public Administration	913910
Aboriginal Public Administration	914110
International and Other Extra-Territorial Public Administration	919110

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