

**Table 10-1**  
**Total extramural payments for research and development, by industry and by year**

	2007	2008	2009 <sup>r</sup>	2010 <sup>r</sup>	2011 <sup>p</sup>
	millions of dollars				
<b>Total all industries</b>	<b>4,424</b>	<b>3,817</b>	<b>3,681<sup>A</sup></b>	<b>2,898<sup>A</sup></b>	<b>2,792<sup>A</sup></b>
<b>Agriculture, forestry, fishing and hunting</b>	<b>26</b>	<b>16</b>	<b>21<sup>A</sup></b>	<b>17<sup>A</sup></b>	<b>F</b>
Agriculture	9	9	13 <sup>A</sup>	11 <sup>A</sup>	F
Forestry, logging and support activities for forestry	x	6	4 <sup>A</sup>	2 <sup>A</sup>	4 <sup>A</sup>
Fishing, hunting, trapping and animal aquaculture	x	2	3 <sup>A</sup>	3 <sup>A</sup>	2 <sup>A</sup>
<b>Mining and oil and gas extraction</b>	<b>54</b>	<b>86</b>	<b>98<sup>A</sup></b>	<b>145<sup>B</sup></b>	<b>132<sup>D</sup></b>
Oil and gas extraction, contract drilling and related services	40	66	65 <sup>A</sup>	118 <sup>B</sup>	99 <sup>E</sup>
Mining and related support activities	14	19	33 <sup>A</sup>	27 <sup>D</sup>	34 <sup>A</sup>
<b>Utilities</b>	<b>101</b>	<b>104</b>	<b>106<sup>A</sup></b>	<b>98<sup>D</sup></b>	<b>F</b>
Electric power generation, transmission and distribution	91	97	100 <sup>A</sup>	91 <sup>D</sup>	F
Other utilities	10	6	7 <sup>A</sup>	7 <sup>A</sup>	5 <sup>A</sup>
<b>Construction</b>	<b>13</b>	<b>14</b>	<b>25<sup>D</sup></b>	<b>17<sup>A</sup></b>	<b>38<sup>A</sup></b>
<b>Manufacturing</b>	<b>1,910</b>	<b>1,256</b>	<b>1,193<sup>A</sup></b>	<b>806<sup>A</sup></b>	<b>904<sup>A</sup></b>
Food manufacturing	20	115	26 <sup>A</sup>	24 <sup>A</sup>	16 <sup>D</sup>
Beverage and tobacco product manufacturing	8	3	4 <sup>A</sup>	3 <sup>A</sup>	2 <sup>A</sup>
Textiles	3	2	3 <sup>A</sup>	2 <sup>A</sup>	2 <sup>A</sup>
Wood product manufacturing	21	21	21 <sup>A</sup>	11 <sup>A</sup>	12 <sup>A</sup>
Paper manufacturing	19	16	15 <sup>A</sup>	13 <sup>A</sup>	12 <sup>A</sup>
Printing and related support activities	x	x	3 <sup>A</sup>	2 <sup>A</sup>	6 <sup>A</sup>
Petroleum and coal products manufacturing	60	x	12 <sup>A</sup>	12 <sup>A</sup>	94 <sup>D</sup>
Pharmaceutical and medicine manufacturing	557	394	457 <sup>A</sup>	170 <sup>A</sup>	104 <sup>A</sup>
Other chemicals	70	61	107 <sup>B</sup>	86 <sup>A</sup>	49 <sup>A</sup>
Plastic product manufacturing	11	13	19 <sup>C</sup>	15 <sup>A</sup>	14 <sup>A</sup>
Rubber product manufacturing	10	5	3 <sup>A</sup>	2 <sup>A</sup>	1 <sup>A</sup>
Non-metallic mineral product manufacturing	7	5	7 <sup>E</sup>	9 <sup>A</sup>	6 <sup>A</sup>
Primary metal (ferrous)	x	4	5 <sup>B</sup>	2 <sup>A</sup>	3 <sup>A</sup>
Primary metal (non-ferrous)	53	35	17 <sup>A</sup>	20 <sup>A</sup>	18 <sup>A</sup>
Fabricated metal product manufacturing	21	22	26 <sup>A</sup>	22 <sup>A</sup>	16 <sup>A</sup>
Machinery manufacturing	56	55	59 <sup>A</sup>	47 <sup>A</sup>	56 <sup>D</sup>
Computer and peripheral equipment manufacturing	6	8	4 <sup>A</sup>	3 <sup>A</sup>	4 <sup>A</sup>
Communications equipment manufacturing	127	162	144 <sup>A</sup>	86 <sup>A</sup>	102 <sup>A</sup>
Semiconductor and other electronic component manufacturing	x	17	14 <sup>A</sup>	15 <sup>A</sup>	15 <sup>A</sup>
Navigational, measuring, medical and control instrument manufacturing	45	48	32 <sup>A</sup>	42 <sup>A</sup>	81 <sup>A</sup>
Other computer and electronic products	x	x	2 <sup>E</sup>	2 <sup>A</sup>	2 <sup>A</sup>
Electrical equipment, appliance and component manufacturing	21	16	21 <sup>A</sup>	15 <sup>A</sup>	10 <sup>A</sup>
Motor vehicle and parts	372	100	79 <sup>C</sup>	68 <sup>C</sup>	84 <sup>A</sup>
Aerospace products and parts manufacturing	97	59	70 <sup>B</sup>	97 <sup>A</sup>	159 <sup>A</sup>
All other transportation equipment	x	11	13 <sup>D</sup>	11 <sup>A</sup>	8 <sup>A</sup>
Furniture and related product manufacturing	3	4	5 <sup>A</sup>	5 <sup>A</sup>	3 <sup>A</sup>
Other manufacturing industries	17	21	25 <sup>A</sup>	21 <sup>A</sup>	26 <sup>A</sup>
<b>Services</b>	<b>2,320</b>	<b>2,342</b>	<b>2,238<sup>A</sup></b>	<b>1,816<sup>A</sup></b>	<b>1,593<sup>A</sup></b>
Wholesale trade	301	579	611 <sup>A</sup>	402 <sup>A</sup>	300 <sup>A</sup>
Retail trade	17	18	15 <sup>A</sup>	16 <sup>A</sup>	14 <sup>A</sup>
Transportation and warehousing	63	54	49 <sup>A</sup>	27 <sup>A</sup>	18 <sup>A</sup>
Information and cultural industries	706	585	553 <sup>B</sup>	532 <sup>A</sup>	467 <sup>A</sup>
Finance, insurance and real estate	127	111	123 <sup>A</sup>	91 <sup>A</sup>	64 <sup>E</sup>
Architectural, engineering and related services	64	58	84 <sup>A</sup>	139 <sup>A</sup>	58 <sup>A</sup>
Computer systems design and related services	175	141	154 <sup>C</sup>	145 <sup>A</sup>	212 <sup>A</sup>
Management, scientific and technical consulting services	19	14	21 <sup>A</sup>	26 <sup>A</sup>	23 <sup>A</sup>
Scientific research and development services	709	666	511 <sup>A</sup>	345 <sup>A</sup>	317 <sup>A</sup>
Health care and social assistance	72	44	36 <sup>A</sup>	27 <sup>A</sup>	32 <sup>A</sup>
All other services	66	71	81 <sup>A</sup>	68 <sup>A</sup>	87 <sup>A</sup>

**Note(s):** Extramural payments are expenditures made for R&D performed by other organizations in Canada and/or in other countries. Other organizations include parent or affiliated companies, other non-related companies, private non-profit organizations, universities, hospitals, industrial and provincial research organizations, and other organizations including governments and individuals. Extramural R&D payments include expenditures by companies that performed R&D and companies that only made payments for R&D to other organizations. Components may not add to totals due to rounding.