

Table 5-1
Total intramural research and development expenditures by industry

	2007 ^r	2008 ^r	2009 ^p	2010 ^p	2011 ^p
	millions of dollars				
Total	16,756	16,409^A	15,110^A	14,895^A	15,646^A
Agriculture, forestry, fishing and hunting	179	130^A	106^A	101^B	105^C
Agriculture	97	100 ^A	92 ^A	87 ^B	92 ^C
Forestry and logging	76	21 ^A	6 ^A	6 ^D	6 ^D
Fishing, hunting and trapping	6	8 ^A	8 ^A	8 ^C	8 ^C
Mining and oil and gas extraction	781	946^A	940^A	859^A	842^A
Oil and gas extraction	714	903 ^A	836 ^A	760 ^A	738 ^A
Mining	67	42 ^A	105 ^A	99 ^A	103 ^A
Utilities	288	214^A	173^A	178^A	171^A
Electric power	240	169 ^A	140 ^A	x	x
Other utilities	48	45 ^A	33 ^A	x	x
Construction	97	116^A	104^A	104^D	105^C
Manufacturing	8,427	7,643^A	7,360^A	7,082^A	7,650^B
Food	158	178 ^A	154 ^A	160 ^A	198 ^D
Beverage and tobacco	25	15 ^A	17 ^A	19 ^A	25 ^D
Textile	49	45 ^A	39 ^A	44 ^B	48 ^E
Wood products	112	213 ^B	91 ^A	97 ^C	95 ^D
Paper	283	145 ^A	64 ^A	59 ^C	56 ^C
Printing	46	50 ^A	53 ^A	52 ^B	57 ^B
Petroleum and coal products	225	217 ^A	323 ^A	270 ^E	270 ^D
Pharmaceutical and medicine	975	678 ^A	614 ^A	649 ^A	F
Other chemicals	187	253 ^A	288 ^C	252 ^C	F
Plastic products	143	136 ^A	125 ^A	130 ^B	140 ^B
Rubber products	89	35 ^A	30 ^B	30 ^C	32 ^B
Non-metallic mineral products	78	65 ^A	69 ^A	63 ^B	68 ^B
Primary metal (ferrous)	61	79 ^A	67 ^A	62 ^D	64 ^C
Primary metal (non-ferrous)	290	255 ^A	207 ^A	F	180 ^D
Fabricated metal products	258	256 ^A	227 ^A	228 ^B	265 ^B
Machinery	543	546 ^A	591 ^B	601 ^B	691 ^C
Computer and peripheral equipment	110	105 ^A	59 ^A	44 ^C	47 ^C
Communications equipment	1,487	1,468 ^A	1,504 ^A	1,138 ^A	1,381 ^A
Semiconductor and other electronic components	849	452 ^A	505 ^A	514 ^A	499 ^A
Navigational, measuring, medical and control instruments	402	416 ^A	416 ^A	403 ^A	364 ^B
Other computer and electronic products	24	22 ^A	20 ^A	21 ^D	22 ^D
Electrical equipment, appliance and components	261	161 ^A	148 ^B	148 ^B	152 ^B
Motor vehicle and parts	509	422 ^A	277 ^A	296 ^B	345 ^E
Aerospace products and parts	925	998 ^A	1,103 ^A	1,255 ^A	1,358 ^B
All other transportation equipment	70	161 ^A	148 ^D	121 ^E	132 ^E
Furniture and related products	42	47 ^A	39 ^A	38 ^B	45 ^D
Other manufacturing industries	225	222 ^A	182 ^A	210 ^E	218 ^D
Services	6,984	7,361^A	6,427^A	6,570^A	6,773^B
Wholesale trade	976	1,372 ^A	1,235 ^B	1,239 ^A	1,302 ^B
Retail trade	58	52 ^A	47 ^A	50 ^D	F
Transportation and warehousing	80	118 ^A	92 ^A	77 ^D	F
Information and cultural industries	1,476	1,371 ^A	1,120 ^A	1,133 ^B	1,207 ^C
Finance, insurance and real estate	436	408 ^A	340 ^A	349 ^C	303 ^D
Architectural, engineering and related services	494	426 ^A	377 ^A	415 ^B	454 ^C
Computer system design and related services	1,286	1,234 ^A	1,069 ^A	1,097 ^A	1,123 ^C
Management, scientific and technical consulting services	79	75 ^A	62 ^A	68 ^B	F
Scientific research and development services	1,295	1,651 ^A	1,634 ^A	1,695 ^B	1,713 ^C
Health care and social assistance	351	F	134 ^A	127 ^A	F
All other services	452	342 ^A	318 ^A	321 ^B	333 ^E

Note(s): Components may not add to totals due to rounding.