

2.—Current Intramural Research and Development Expenditures, by Industry, 1963-66

Industry	1963 ¹	1964 ¹	1965 ¹	1966 ¹
	\$'000	\$'000	\$'000	\$'000
Mines.....	5,151	6,818	8,404	8,817
Gas and oil wells.....	688	1,293	1,826	1,873
Manufacturing—				
Food and beverages.....	3,788	4,543	5,422	6,097
Rubber.....	1,903	2,099	2,485	3,115
Textiles.....	2,597	2,816	3,366	3,220
Wood.....	154	195	300	297
Furniture and fixtures.....	118	127	114	121
Paper.....	10,985	14,389	14,460	16,174
Primary metals (ferrous).....	3,014	3,777	5,603	4,016
Primary metals (non-ferrous).....	9,054	9,183	9,671	10,348
Metal fabricating.....	3,646	3,170	3,296	3,167
Machinery.....	6,496	7,743	8,154	8,879
Aircraft and parts.....	30,846	40,526	54,469	50,838
Other transportation equipment.....	675	1,811	1,590	1,840
Electrical products.....	30,956	40,015	55,824	60,504
Non-metallic mineral products.....	1,916	1,889	1,784	2,104
Petroleum products.....	7,699	8,655	11,715	15,657
Drugs and medicines.....	4,413	5,583	6,929	8,349
Other chemical products.....	17,985	20,308	22,926	24,860
Scientific and professional instruments.....	5,007	5,366	7,477	7,872
Other manufacturing.....	2,344	3,470	3,776	4,100
Totals, Manufacturing.....	143,596	175,665	219,761	231,558
Transportation and other utilities.....	3,172	3,181	3,339	3,672
Other non-manufacturing.....	987	1,396	1,679	2,063
Totals, All Industries.....	153,594	188,353	235,009	247,983

¹ Forecast by respondents.

Because of difficulties of interpretation and estimation, the figures shown in Table 3 cannot be more than approximations. However, they do indicate that the research and development performed within an industrial group may be for the benefit of some other related industry or for a new 'industry'. Furthermore, company groups may have been assigned to one industry, whereas the activities of the group, including research and development, may actually cover several industries. The relevant table in *Industrial Research and Development Expenditures in Canada, 1965*, which gives the distribution by industry, shows this more clearly. For example, about three quarters of the research and development for rubber products and almost one half of that for textiles are performed by the chemical industry; also, research and development for the aircraft industry is largely for other products—about \$27,000,000 is spent on aircraft, \$10,000,000 on guided missiles and space vehicles, and \$22,000,000 on other transportation equipment.

3.—Current Intramural Research and Development Expenditures, by Product Group, 1965

Product Group	Amount	P.C. of Total	Product Group	Amount	P.C. of Total
Food and beverages.....	5.2	2.2	Electronic components.....	44.2	18.8
Rubber products.....	3.2	1.3	Electrical industrial apparatus.....	5.6	2.4
Textiles.....	6.5	2.8	Household electrical products.....	2.0	0.9
Forest products.....	12.8	5.5	Other electrical products.....	2.5	1.1
Smelting and refining.....	19.3	8.2	Petroleum and coal products.....	12.1	5.2
Rolling, casting and extruding.....	3.4	1.4	Drugs and medicines.....	7.3	3.1
Fabricated metal products.....	3.1	1.3	Industrial chemicals.....	5.7	2.4
Machinery.....	11.8	5.0	Plastics and synthetic resins.....	7.0	3.0
Scientific and professional instruments.....	5.3	2.3	Other chemicals and chemical products.....	7.5	3.2
Aircraft.....	26.9	11.5	Other.....	8.8	3.7
Guided missiles and space vehicles.....	9.9	4.2			
Motor vehicles.....	3.1	1.3			
Other transportation and equipment.....	21.7	9.2	Totals, All Groups.....	235.0	100.0