

### 3.—Intramural Research and Development Expenditures, by Industry, 1961-64

Industry	1961	1962 <sup>1</sup>	1963	1964
	\$	\$	\$	\$
Mining, quarrying and oil wells.....	4,820,816	5,305,551	6,560,188	6,540,782
Manufacturing—				
Foods and beverages.....	2,591,487	2,499,484	4,299,244	5,019,982
Rubber products.....	1,425,008	1,576,587	1,873,549	1,890,000
Textile products.....	1,487,152	1,562,364	1,875,104	1,984,415
Wood products.....	98,050	148,136	171,703	204,700
Furniture and fixtures.....	113,140	123,952	117,821	105,590
Paper products.....	6,545,370	7,201,684	9,089,560	10,228,722
Primary metal.....	7,053,761	8,217,319	10,434,484	11,111,600
Metal fabricating.....	2,361,759	3,093,503	4,160,003	3,004,136
Machinery.....	5,309,036	5,836,531	6,982,317	6,881,366
Electrical apparatus and supplies.....	28,179,519	28,435,263	33,288,516	37,241,774
Non-metallic mineral products.....	1,488,330	1,502,480	1,852,082	1,907,074
Products of petroleum and coal.....	5,529,202	6,450,932	7,583,466	8,875,000
Chemicals and chemical products.....	19,573,959	21,321,895	24,449,969	22,820,425
Other manufacturing (incl. tobacco and tobacco products, leather products, clothing and knitting mills, and miscellaneous).....	3,863,690	6,018,869	7,625,468	9,021,108
Transportation, storage, communication and other utilities.....	3,185,165	3,642,448	4,029,545	9,338,000
Other non-manufacturing (incl. construction industry, scientific and engineering services and trade associations).....	2,990,862	3,279,228	4,635,726	5,781,930
Totals (excl. transportation equipment).....	96,616,306	106,216,226	129,038,743	141,856,514
Transportation equipment.....	17,366,655	18,291,984	31,132,110	48,159,000
Totals, All Industries.....	113,982,961	124,508,210	160,170,853	190,015,514

<sup>1</sup> Estimates based on companies' intentions.

Among the product groups, the largest percentage of research and development expenditures was made in 1963 for the electrical products group, which accounted for 22.9 p.c. of the total compared with 18.9 p.c. in 1961. The chemicals group, including drugs and medicines, which accounted for 20.0 p.c. in 1961 and was in first place in that year, declined to 10.6 p.c. in 1963. The transportation equipment group as a whole received 18.8 p.c. of the total in 1963, of which aircraft and parts accounted for 16.7 p.c. as compared with 15.7 p.c. in 1961.

### 4.—Intramural Research and Development Expenditures, by Product Group, 1963

Product Group	Amount	P.C. of Total	Product Group	Amount	P.C. of Total
				\$	
Aircraft and parts.....	26,729,646	16.7	Machinery (except electrical).....	8,271,375	5.2
Chemicals (except drugs and medicines).....	12,964,859	8.0	Motor vehicles and parts.....	2,941,619	1.8
Drugs and medicines.....	4,148,723	2.8	Petroleum and natural gas.....	6,480,500	4.1
Electrical equipment (except electronics).....	9,443,139	5.9	Primary metals.....	12,906,529	8.0
Electronics.....	27,292,687	17.0	Professional and scientific instruments.....	4,092,137	2.6
Fabricated metals.....	2,146,454	1.3	Other.....	33,834,268	21.3
Forest Products—					
Pulp and paper.....	7,509,970	4.8			
Other.....	1,468,927	0.9			
			<b>Totals.....</b>	<b>160,170,853</b>	<b>100.0</b>

The sources of research funds for intramural research and development in the different industries are shown in Table 5 for 1963. These figures are not comparable with those published for previous years.