

Research Work in Forestry.—In a special article on Scientific and Industrial Research in Canada, which appears at pp. 979-1012 of the 1940 Canada Year Book, a comprehensive review of all phases of scientific research work being undertaken by the various Government Departments is given. Specifically at pp. 993-995 research in forest economics, silviculture, forest fire protection and forest products appears.

Section 6.—Forest Utilization

Subsection 1.—Woods Operations

A short review of the differences in logging methods throughout Canada is given at pp. 195-196 of the 1941 Year Book.

In connection with operations in the woods it should be borne in mind that the forests not only provide the raw material for the sawmills, pulp-mills, wood distillation, charcoal, excelsior and other plants but that they also provide logs, pulpwood and bolts for export in the unmanufactured state, and fuel, poles, railway ties, posts and fence-rails, mining timber, piling and other primary products, which are finished in the woods ready for use or exportation. There are also a number of minor forest products, such as Christmas trees, maple sugar and syrup, balsam gum, resin, cascara, moss and tanbark, that all go to swell the total.

The imports and exports of forest products in the years 1937-40, are shown in Tables 16 and 17 of the chapter on External Trade.

4.—Values of Woods Operations, by Products, 1935-39¹

Product	1935	1936	1937	1938	1939
	\$	\$	\$	\$	\$
Logs and bolts.....	34,077,938	44,827,957	58,004,070	52,759,660	55,685,197
Pulpwood.....	41,195,871	48,680,200	63,057,205	53,761,999	58,302,668
Firewood.....	31,864,500	32,167,410	32,457,629	32,740,566	33,058,240
Hewn railway ties.....	3,188,651	3,190,052	3,129,207	2,222,509	2,048,186
Poles.....	1,359,736	1,563,681	2,455,345	2,824,512	2,940,361
Round mining timber.....	997,357	1,102,255	1,262,658	1,297,993	1,461,507
Fence-posts.....	976,402	1,008,178	992,610	978,679	1,111,883
Wood for distillation.....	274,797	274,077	309,892	298,110	289,230
Fence rails.....	266,253	273,282	262,160	264,480	267,437
Miscellaneous products.....	1,260,274	1,717,136	1,319,111	1,117,349	2,582,689
Totals.....	115,461,779	134,804,228	163,249,887	148,265,857	157,747,398

¹ The total value of woods operations in 1940 was \$194,567,875.

It has been estimated that operations in the woods in Canada in 1939 involved the investment of over \$198,000,000, gave employment during the logging season to more than 277,240 people and distributed over \$79,000,000 in wages and salaries. In estimating the annual drain on our forest resources, certain converting factors have been used. Each of these factors represents in cubic feet the quantity of standing timber that must be cut in the forest to produce one unit of the material in question, based on the total cubic contents of the tree.