

cu. feet comprised 39 p.c. logs and bolts, 32 p.c. pulpwood, 26 p.c. fuelwood, and the remaining 3 p.c. miscellaneous products. Approximately 6 p.c. of the logs and bolts and pulpwood were exported in unmanufactured form.

The more efficient utilization of timber that has been cut is one factor related to forest depletion. There is little doubt that in the past too high a percentage of the sawn log was discarded. Changes of great significance have been taking place in the uses of wood, permitting the utilization of sizes and qualities previously considered unmerchantable. The development of the manufacture of rayon, cellophane and numerous other products in the cellulose industry is rapidly extending the use of wood. The increasing demand for plastic-wood products, fibre board and laminated wood is resulting in greater use of inferior classes of wood, and therefore in the more complete utilization of forest resources and in the elimination of much waste.

4.—Average Annual Forest Depletion during the Ten-Year Period 1942-51 and 1952

Item	Usable Wood		Percentage of Depletion	
	Average 1942-51	1952 ^a	1942-51	1952 ^a
	M. cu. ft.	M. cu. ft.		
Products Utilized—				
Logs and Bolts—				
Domestic use.....	1,127,126	1,365,560	31.2	31.5
Exported.....	13,611	9,834	0.4	0.2
Pulpwood—				
Domestic use.....	777,568	986,776	21.5	22.8
Exported.....	162,128	211,927	4.5	4.9
Fuelwood.....	752,578	841,229	20.9	19.4
Other products.....	101,598	129,837	2.8	3.0
Average Annual Utilization.....	2,934,609	3,545,163	81.3	81.8
Wastage—				
By forest fires.....	175,453	289,656	4.9	6.7
By insects and disease.....	500,000	500,000	13.8	11.5
Average Annual Wastage.....	675,453	789,656	18.7	18.2
Average Annual Depletion.....	3,610,062	4,334,819	100.0	100.0

Although all the utilization and most of the wastage occurs on the currently *occupied productive* forest area of approximately 257,000 sq. miles (where commercial cutting is concentrated), it is from the *accessible productive* forest of 578,000 sq. miles that the forest production of the future will be obtained. Merchantable timber on the *accessible productive* forest is estimated at 275,268,000,000 cu. feet, of which approximately 125,000,000,000 cu. feet may be considered to be located on the *occupied* area. The average annual depletion for the decade 1942-51 amounted to 1.3 p.c. of the *accessible productive* volume or to 2.9 p.c. of the volume on the *occupied* portion. The depletion for 1952, however, shows an appreciable increase over the average, being 1.6 p.c. of the *accessible*, and 3.5 p.c. of the *occupied* portion. These rates are indicative of the fact that in many localities severe over-cutting is taking place, whereas the annual growth is not being used on the less accessible portions of the productive forest. This situation emphasizes the urgent need for increased protection and management of the commercial forests, if forest growth is to balance depletion and the forest industries are to maintain their dominant place in Canada's development.