

of pulp wood for export more ruthless cutting, damage to forests and depreciation of the same took place annually than the Forestry Association could hope to offset by the preservation of limits controlled and owned by the Crown or Canadian manufacturers. At the same time I mentioned the fact to your Assistant Secretary that I was not competent to give a paper on forestry or the preservation of forests, but that if it would be acceptable to your Association, I would endeavor to show that Canada was not pursuing a proper policy for the preservation of her forests as an asset, nor getting the best possible results.

As you are all probably aware, pulp, whilst being a manufactured article from pulp wood, is still only a basis of raw material for the manufacture of paper. The two principal grades of pulp in use to-day are mechanical or ground wood pulp, and chemical or sulphite pulp. Mechanical or ground wood pulp is almost explained by its name, as the process of manufacture is very simple, consisting principally of grinding wood into pulp. Chemical or sulphite pulp is a very much more intricate process of manufacture, and consists in treating the wood by chemical process, and thus separating the fibres of the wood by the extraction of resinous material. In the manufacture of paper 70% to 75% of the pulp used is mechanical, and the balance, 25% to 30%, is chemical. Paper made altogether from mechanical pulp would not be satisfactory for newspaper or any of the finer grades, as the fibres of the pulp are too short to give the paper sufficient strength, so that it is necessary to use a proportion of sulphite pulp, which by its process of manufacture retains the long fibres of the wood, and thus gives the strength to the paper.

The first consideration, therefore, to the manufacturer of pulp is his raw material and power. An enormous quantity of water power, on account of its cheapness, is necessary for the manufacture of mechanical pulp, and therefore it is usual for a pulp manufacturer to locate his mill at a point where there is good water power and where his source of supply of pulp wood is close at hand. A pulp manu-