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PULP AND NEWS-PAPER MANUFACTURE

By J. STADLER

To be read before a Monthly Meeting, March 5th, 1914

The subject of this paper is the power consumption in the manufacture of news-paper, and in the production of the fibre for the making of the paper, that is, the ground-wood and sulphite process.

The fibre used in the making of news-paper is produced entirely from wood. The wood used is principally spruce, hemlock and balsam. The other coniferous woods are used in smaller quantities.

News-paper is usually manufactured from 75% mechanical pulp (ground-wood) and 25% chemical pulp (sulphite pulp). Under ordinary conditions one cord of wood is required to make one ton of ground-wood, and two cords of wood are required to make one ton of sulphite pulp; hence for the production of news-paper one and a quarter cords of wood are used for every ton of news-paper made.

That Canada may be classified as a papermaking country can be seen from the following figures:—

	Daily Pro- duction	Production in tons per annum	Value of Product (Dollars)	Daily H.P. required per 24 hrs.
Mechanical Pulp.....	3,180 tons	800,000	12,400,000	210,000
Chemical Pulp.....	905 tons	272,000	10,336,000	7,500
News-paper	1,580 tons	480,000	18,240,000	20,000

In addition to the above, Canada is producing large quantities of chemical pulp made by the sulphate and the soda processes, from which