Water Powers of Canada

Estimates have been made by the writer as the result of careful exploration work to within reasonable distance of the cities of Vancouver and Victoria there are possibilities of the economic development of water powers aggregating 750,000 H.P. These was powers are all situated within an area of 20,000 square miles, thus representing 371.2 For each square mile of territory. Outside of this area a rough estimate of the water popossibilities of the Province would bring this figure up to 3,000,000 H.P., or nearly equathe estimate for Ontario, and in the writer's opinion this amount is conservative, althountil much further investigations have been made, such an estimate is merely an intelliguess.

The capitalist and manufacturer seeking for opportunities of developing new indust will find a fertile field in British Columbia for utilizing these water powers in addition their use in supplying electrical energy for cities and towns. Already large Porticement plants using about 8,000 H.P. of electrical energy are in operation on Vancou Island, paper pulp is being manufactured on a large scale, and smelting plants are be operated by water-powers.

In view of the value of these water-powers it might be useful to refer to some of more important uses to which they may be applied.

In the field of pulp manufacture, Canada is a great paper making country, and following figures indicate to what extent:

	Tons per Annum	Value	24 hou Horse Po required
Mechanical Pulp	 800,000	\$12,400,000	210,000
Chemical pulp	 272,000	10,336,000	7,50
News paper	 480,000	18,240,000	20,000
Total	 1,552,000	40,976,000	237,500

Of that output British Columbia at the present time produces in value about 8 Bearing in mind the vast forests in the Province, and in many places the existence of la water powers in close proximity to unlimited areas of spruce, hemlock and balsam fr which the fibre is produced, that industry alone is an inviting one. It is, however, in field of electric-chemistry that some of the greatest opportunities are offered, but in electro-chemical industries it must be borne in mind that the construction of hydro-elect plants must be carried out, so as to produce electrical energy as economically as is done the large plants in Norway, Sweden, and Switzerland. In British Columbia, however there are in many of the water-powers somewhat similar conditions to those that obtain Scandinavian territory, i.e., powers that can be developed economically under high head In the writer's opinion, excluding the cost of transmission lines, many of these includes some low head plants, can be developed as complete installations from \$60 to \$100.