L-Available and Developed Water Power in Canada, by Provinces, Jan. 1, 1933.

Province.	Available 24-hour Power at 80 p.c. Efficiency,		Turbine
	At Ordinary Minimum Flow.	At Ordinary Six Months' Flow.	Installation.
	h.p.	h.p.	h.p.
Prince Edward Island	3,000	5,300	2,439
	20,800	128,300	112,167
New Brunswick.	68,600	169,100	133,681
	8,459,000	13,064,000	3,357,320
Ontario	5,339,000	6,949,000	2,208,105
Manitoba	3,309,000	5,344,500	390,925
Saskatchewan	542,000	1,082,000	42,035
	390,000	1,049,500	71,597
British Columbia Yukon and Northwest Territories	1,931,000	5,103,500	713,792
	294,000	731,000	13,199
Canada	20,317,400	33,617,200	7,045,260

The figures of available power in the above table are based upon rapids, falls and power sites of which the actual existent drop, or the head of possible concentration, is definitely known or at least well established. Innumerable rapids and falls of greater or smaller power capacity, not as yet recorded, are scattered on rivers and streams from coast to coast and will only become available for tabulation as more detailed survey work is undertaken and completed. This is particularly true of the less explored northern districts. Nor is any consideration given to the power concentrations which are feasible on rivers and streams of gradual gradient, where economic heads may be created by the construction of power dams, excepting only at points where definite studies have been carried out and the results made matters of record.

The turbine installation in the above table represents the actual water wheels installed throughout the Dominion, but these figures should not be placed in direct comparison with the available power figures for the purpose of deducing therefrom the percentage of the available water-power resources developed to date. The actual water-wheel installation throughout the Dominion averages 30 p.c. greater than corresponding maximum available power figures calculated at ordinary six months' flow. The figures quoted above, therefore, indicate that the "at present recorded water-power resources" of the Dominion will permit of a turbine installation of about 43,000,000 h.p. In other words, the present turbine installation represents less than one-sixth of the present recorded water-power resources.

The above figures may be said to represent the minimum water-power possibilities of the Dominion. To illustrate, detailed analyses of the water-power resources of the provinces of New Brunswick and Nova Scotia have disclosed most advantageous reservoir facilities for regulating stream flow. It is estimated that the two provinces possess within their respective borders 200,000 and 300,000 commercial h.p.

Recent Increase in Turbine Installation.—Table 2 shows the yearly increase in turbine installation, by provinces, from 1900 to 1932 inclusive. During the four years immediately preceding the War nearly 1,000,000 h.p. was installed, during the following eight years approximately the same installation was made, while in the latest ten years the gain was 4,036,915 h.p.