Table 2 presents a summary of the water-power resources of Canada according to the records of the Dominion Water and Power Bureau as at Dec. 31, 1949. In the case of developed power, the figures for 1948 are listed for comparative purposes.

2.—Available and Developed Water Power, by Provinces, 1948 and 1949

Province or Territory	Available 24-Hour Power at 80 p.c. Efficiency, December, 1949		Turbine Installation	
	At Ordinary Minimum Flow	At Ordinary Six-Month Flow	Dec. 31, 1948	Dec. 31, 1949
	h.p.	h.p.	h.p.	h.p.
Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan	1,135,000 500 25,500 123,000 8,459,000 5,407,200 3,309,000 542,000	2,585,000 3,000 156,000 334,000 13,064,000 7,261,000 5,344,000 1,082,000	2,617 140,884 133,347 5,939,697 2,894,240 503,700 111,835	262,050 2,617 145,384 133,347 6,130,097 2,896,540 557,700 111,835
Alberta British Columbia Yukon and Northwest Territories	507,800	1,258,000 10,998,000 814,000	106,560 1,009,769 28,069	107,225 1,238,069 28,469
Canada	26,914,500	42,899,000	10,870,718	11,613,333

The figures listed in the first and second columns of Table 2 represent 24-hour power and are based upon rapids, falls and power sites of which the actual drop, or the head possible of concentration, has been measured or at least carefully estimated. Many unrecorded rapids and falls of undetermined power capacity exist on rivers and streams from coast to coast (particularly in the less-explored northern districts); these will become available for tabulation only as more detailed survey work is completed. Unless definite studies have been carried out and the results made matters of record, no consideration has been given to the power concentrations that are feasible on rivers and streams of gradual gradient, where economic heads possibly may be created by the construction of power dams. Thus, with regard to possible sites, the listed figures of available power (under two conditions of stream flow) represent only the minimum water-power possibilities of Canada.

The third and fourth columns give the total capacity of the water wheels actually installed; these figures should not be placed in direct comparison with those in the first and second columns to deduce the percentage of the available water-power resources developed. At developed sites, the water-wheel installation averages 30 p.c. greater than the corresponding calculated maximum available power figures included in the second column and covering the same sites. The above figures, therefore, indicate that the at present recorded water-power resources will permit of a turbine installation of more than 55,000,000 h.p.; also, that the turbine installation at Dec. 31, 1949, represents roughly only 21 p.c. of recorded water-power resources.

Table 3 shows clearly the consistent growth in capacity since the beginning of the century and the heavy increase in installation during the war years 1942 and 1943. During 1949 as a result of the great post-war activity in hydro-electric construction, more than 480,000 h.p. was added to the total capacity of the country; many other new plants and additions are under construction.