

# The Canadian Engineer

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## WATER POWERS ON THE WINNIPEG RIVER

FROM A REPORT TO HIS HONOR, JUDGE H. A. ROBSON, PUBLIC UTILITIES COMMISSION, WINNIPEG, PREPARED BY THE WATER POWER BRANCH, DEPARTMENT OF THE INTERIOR; J. B. CHALLIES, B.A.Sc., SUPERINTENDENT. J. T. JOHNSTON, HYDRAULIC ENGINEER

It has long been recognized that there is an enormous reserve of potential water power on the Winnipeg River within the province of Manitoba. The rapidity with which the existing developments on the river have been, and are being increased to their capacity, and

visible to commit itself with respect to any further developments on the river until it had first caused to be made a complete survey and investigation of the whole river, with a view to securing such information as would enable the dictation of developments which would con-

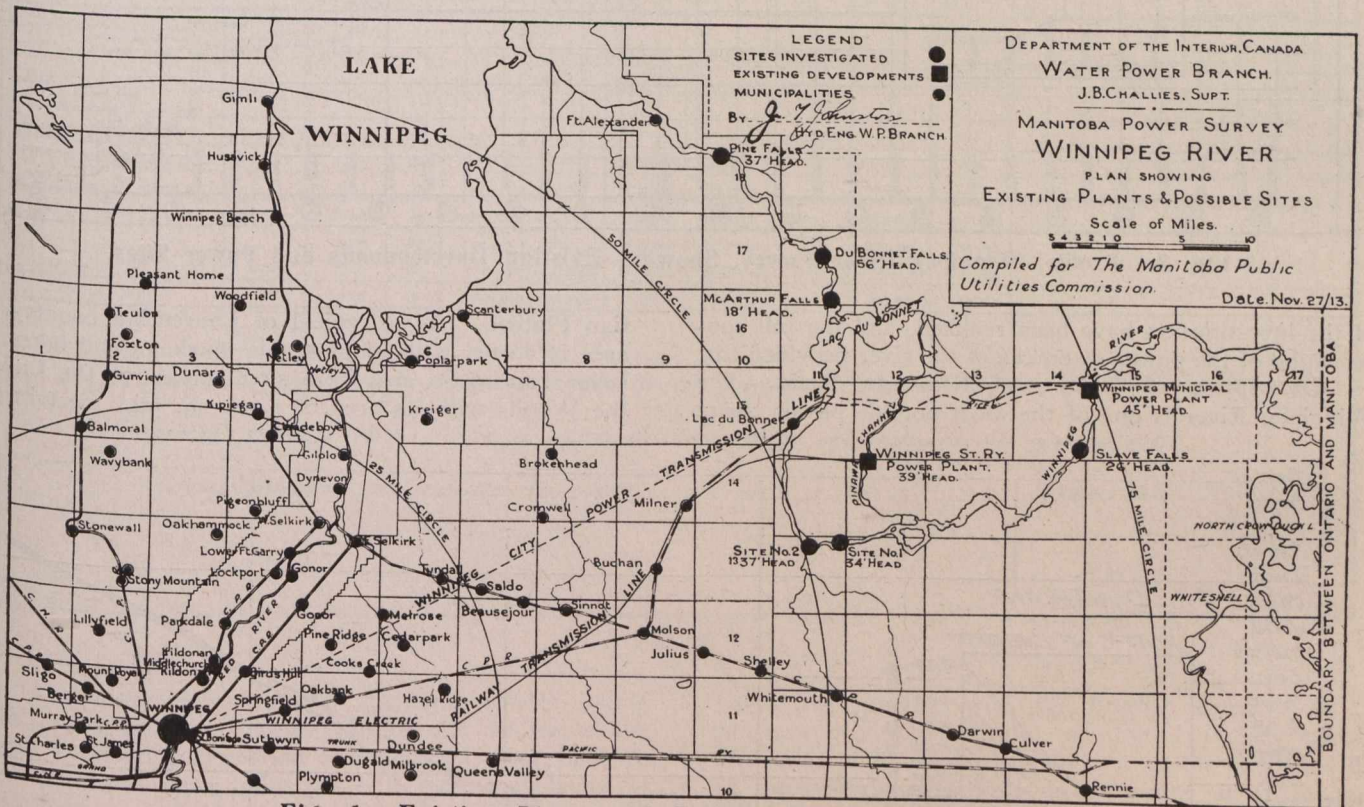


Fig. 1.—Existing Plants and Possible Sights Around Winnipeg.

the active interest that has been taken in the undeveloped power sites of the river, have compelled the Dominion Government to give the water power resources on this river careful and full consideration. Within the last few years there have been presented to the Dominion Government many applications for power privileges on this river; schemes have been proposed for the utilization of various portions of the natural fall, some contemplating the combination of several falls by the concentration of their respective drops at one power site, and others simply proposing the utilization of the drop at a particular fall. These have been so varied and so conflicting, and at the same time supported by such reputable engineering advice, that the government found it inad-

template the maximum possible advantageous utilization of the water power resources of the river. These investigations were started early in the year 1911, under the consulting advice of Mr. J. B. McRae, C.E., of Ottawa, and the field work has proceeded vigorously to completion under charge of Mr. D. L. McLean. For the purpose of this report for the Public Utilities Commission, which had to be completed by December 15th, 1913, plans based on this field work have been rushed to completion, and a preliminary provisional estimate made by the engineers of the Water Power Branch, of the best method of concentrating the various separate falls of the river to enable all the natural fall to be utilized for power purposes, and at the same time have each unit develop-