

THE WATERDOWN REVIEW

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WILL HARNESS RIVER

ST. LAWRENCE WILL FURNISH 5,000,000 HORSE POWER.

Five Dams Are to Be Built, and the Scheme Now Being Perfected is to Be One of the Greatest Engineering Undertakings in the History of the World.

FOR generations a dream of the engineers of the country has been the harnessing of the St. Lawrence river. Like the building of the Panama Canal, it remained in the dream stage for many years. Long dismissed by the cautious as a task too huge to be attempted, the St. Lawrence project is now being seriously considered.

For the last eight or nine months hearings have been held as to the best use for navigation and power purposes of the St. Lawrence river. These hearings have been held before the International Joint Commission, composed of three members from the United States and three Canadian members, who were originally appointed for the purpose of adjusting all differences between the United States and Canada respecting boundary streams. The commission has now before it for consideration recommendations that, if adopted, will mean, probably, the eventual building of five dams in the St. Lawrence (two internationally located and three wholly in Canada), which will produce, when completed, 5,000,000 horse power, 4,000,000 of which will be available for use in Canada and 1,000,000 in New York State and vicinity. The cost of construction is figured at approximately \$1,300,000,000.

The projected dams and power houses at different points in the St. Lawrence will, according to experts, release within a radius of 300 miles power at less than half the cost of present steam power, thus relieving the coal situation and providing new resources of power for lighting systems, traction systems and all kinds of manufacturing undertakings. Instead of the present slack water navigation between Montreal and Lake Ontario, and the score of locks now in use along the 120 miles of the St. Lawrence, there will be only six locks, making vast open stretches for speeding up navigation.

Through this series of dams and power houses it is believed that it will be possible to increase the flow of the St. Lawrence river by controlling the level of Lake Erie. Where now a minimum of 150,000 cubic feet of water per second must be figured on, this vast project undertakes to "balance the flow" of the St. Lawrence river, using Lake Ontario and Lake Erie as reservoirs, and thus make available for navigation and power approximately 200,000 cubic feet per second.

Of course the engineering difficulties to be met with are gigantic. The first steps have already been taken in using diamond drills to find rock bottom on the river bed, approximately sixty feet below the surface of the water. The depth of foundations at the proposed sites, and the general difficulties incident to uncovering these foundations, are matters which complicate the undertaking.

Another problem to be met is that of ice on the river. The proposed plant must be so designed that it can safely and automatically handle as much as 5,000 tons of ice per minute, an amount equal to a trainload of ice three-quarters of a mile long every minute. Ice defences to break up blocks are necessary. In addition, the masonry around the control system through which the water rushes must be heated to a temperature above 32 degrees Fahrenheit, so that the water will not freeze on the masonry and block the flow.

The first section to be built will be a great dam and power house stretching across the St. Lawrence from the American to the Canadian side. Such a structure will cost approximately \$300,000,000.

Complete plans for the work extending over five years or more have been drawn up by the offices of Hugh L. Cooper of New York. Mr. Cooper, who is an expert hydraulic engineer and who built the Mississippi Water Power Project, says: "No engineering proposal in the past even approximates in magnitude and far-reaching influence upon the general public the engineering proposal that is now before this International Joint Commission with respect to the St. Lawrence river. Aside from releasing 5,000,000 horse power, the engineering plans will show and competent engineering authorities will agree that the problems of preserving the scenic beauty at Niagara Falls and facilitating navigation on the Great Lakes system while bringing to highest development the water powers of

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the region may be solved in a way that will stand out as a world monument to engineering—an achievement compared to which all past achievements, however great they seemed at the time of the accomplishment, will look small.

"The World War has removed from the normal available man supply more than 20,000,000 men. Probably 85 per cent. of these men belonged to the laboring class. It has been known for a long time that one of the quickest helps for this labor shortage will come from the hydro-electric engineering branch of the profession. Our modern civilization requires, normally, one horse power for every five of its people. Every hydro-electric horse power saves, on the average, ten tons of coal per annum.

"This is to show how the public is dependent upon and interested in the most efficient development of all undeveloped water-power resources."

First Cable Message.

The first Atlantic cable message to Canada was on August 12, 1858, from Queen Victoria.

Cauliflower is handled in the same way as cabbage. If cauliflower gets a severe setback in transplanting to the field, it will tend to cause it to go to seed instead of to form a good head. More especially is this so with the early crop in the warm summer weather. In many small gardens it is generally grown as a fall crop. The plants are slower growers than cabbage and will do better if started about two weeks earlier if we wish a maximum number of good heads. When the cauliflower shows a head about two inches in diameter the outer leaves should be drawn together and tied so as to exclude the light, thus giving a pure white head. Cauliflowers that have not fully developed may be dug up, roots and all, and hung in a cool cellar. They will continue to grow, giving a delicious head after the ordinary season of cauliflower is over. Fully developed heads may be cut off, wrapped in oil paper and stored in a cold room at 32 deg. F. to 34 deg. F. Here they will keep well till Christmas time.—A. H. MacLennan, Vegetable Specialist, Toronto.

The trees in the apple orchard may be scraped down so as to make more effective the later spraying of the trunk and main branches. Egg masses of the Tussock Moth, conspicuously white against the dark bark, may be removed by means of a wire brush or hook on a pole.

Long-tailed lambs are unsightly, and are apt to become very filthy.

Carrier Pigeons in 1099.

According to the poet Tasso, carrier pigeons were employed for the transmission of messages during the siege of Jerusalem in the year 1099.

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Lost

On Tuesday evening between my home and Waterdown, pocket book containing a sum of money. Liberal reward to finder. Geo. Willis.

Lost

In Waterdown on Monday July 18, a dark grey raincoat. Finder enquire for owner at Review.

For Sale

Fresh Milch Cow and calf. Apply to Chas. Rankin, Waterdown Road.

NOTICE

Will the party who borrowed Eager's Shoe Stretcher kindly return same.

For Sale

Team of Horses, weight 2800, or will exchange for light Truck car or cattle. Phone 36-4

For Sale

No. 4 Sharples Cream Separator good as new. 1 Corn Sheller good as new, and 2 single Cultivators. Apply to Albert Feilde, Waterdown. Phone 12 ring 14.

For Sale

A quantity of Second crop Lucerne Hay. Thos. Hunter, phone 43-13.

Notice

2 Returned Soldiers will take any kind of work by the hour. R. H. Clarke and C. O. Edge. Phone 115-J Waterdown

For Sale

Lucerne Hay in any quantity, either in the field or barn. Apply to Peter Ray.

For Sale

Eight-roomed, Pressed Brick House. Hot water heated, hardwood lower floor, double garage. Apply to Mrs. R. Attridge. Phone 10 ring 3, Waterdown.

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Young Beagle Bitch, black, tan and white. Tag No. 296. Roy Kerns, Freeman.

All Kinds

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Bill's Pension.
 "Well, Bill, what are you going to do when you get demobilized?"
 "I live on me pension, of course."
 "You don't think yer gonn' to get a pension from the Army, do yer?"
 "No not army—old-age pension, I mean."

War Knits.

He (after he had watched her knitting for an hour) — What are you knitting?
 She— I don't know yet.

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