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Power to New York From St. Lawrence

Suggested Transmission of Energy at High Voltage to Industrial Centres Of United States

At a recent meeting of the American Institute of Civil Engineers, Mr. Perey H. Thomas, a prominent expert authority on long distance transmission, urged the construction of super-power stations to generate electric energy to supply Boston, New York, Philadelphia and Washington and intermediate cities. To achieve this, he suggested that electric energy be obtained from the Cedar rapids of the St. Lawrence and that "super power" plants be erected at the anthracite and bituminous mines of Pennsylvania.

The area it is proposed to supply with electric energy is the most populous and highly developed industrial section of the United States. Such supply would only be possible by the use of a higher Such supply would only voltage than heretofore considered practicable, 250,000 volts, which permits the transmission of electric energy over distances hitherto believed to be beyond economic range. The scheme is of particular interest to Canada, as the proposed market could readily absorb all the power produced by the Long Sault as well is the surplus from Cedar rapids.

Mr. Thomas, in presenting the cheme, stated that the most mportant advantages of the proet are the conservation of coal and the relief of railways from the urden of hauling it. To conserve el most effectively requires both he development of as much waterower as may be economically astified and the burning of coal in most economical manner, as rell as the use of low grades of coal. ther advantages are mutual supcheaper production.

The proposed system consists of main 250,000-volt line, connecting ashington with Boston, via Balti-Wilmington, Philadelphia, wark, New York, New Haven nd Providence. This line would efed from a group of large stations the nearest bituminous and athracite coal-fields. Each group such powers would feed the main

The Commission of Conservation

Write to the Commission of Conservation for information respecting the natural resources of Canada. Parliament created it to get this information for you. For a decade, its experts have been investigating Canada's natural wealth and how best to develop it. Its reports and files are filled with information on lands, fisheries, game, minerals, forests, water-powers and town planning and the problems relating to their efficient utilization



PROPOSED SUPER-POWER SUPPLY, WASHINGTON - NEW YORK - BOSTON

of about 250 miles long which Grow the Small probably where it crossed the Hudson river. The total distance to New York will be about 300 miles.—L. G. Denis.

Wood Protection

The effect of the lumber scarcity, and its antecedent, the depletion of the forest, is being felt by the ambitious householder who undertakes to make his own repairs ort and interchange of power or improvements. Costs of material etween the various plants, leading are rapidly mounting, and the expense entailed causes a delay in making repairs.

In many cases, however, the necessity for repairs is due to delay in protecting woodwork. By the and expense of renewal would be obviated. It is remarkable how little thought is given to the protection of wood where it is exposed through a tap line. The absorption and drying out of mois- a considerable amount of neglect. ergy generated in the suggested ture are conducive to decay. By rige plant or group of plants on painting the woodwork, moisture e St. Lawrence river would feed is excluded and the life of the wood main line by another tap line will be greatly lengthened.

Fruits at Home

In the process of getting the most out of the backyard garden. many amateur gardeners have overlooked the cultivation of small

Fresh fruit on the table has almost become a luxury. The high prices which these fruits are commanding, and their growing scarcity on the market, are due largely to lack of help and the enhanced eost of picking and transportation.

use of paint, much of the labour as fresh fruit and for baking and preserving purposes, should make their cultivation much more extensive. There are no fruits that respond more quickly to good Large fruit and productive bushes however, can only be expected when they are given proper atten-

Soil Fertility in Western Canada

Conservation of the Soil and Rotation for Drought Areas, Etc., Subjects for Conference at Winnipeg

"Our farmers are not all conservationists. . The fertility problem on the prairies is a somewhat different one from that of the older provinces. We have an abundantly fertile soil, but a scientist has recently esti-mated that, if we shipped away only 100 million bushels of wheat annually from Saskatchewan we would ship away fertility-nitrogen phosphorus and potash—with a market value of \$23,560,000 not including freight. We are not concerned about bringing back fertility; but we are deeply concerned

about the conservation of fertility."
In addressing the eighth annual meeting of the Commission of Conservation, Dr. W. J. Rutherford, of the University of Saskatchewan, gave expression to the above opin-

The marked variation in crop yield in the Prairie Provinces, as shown by the following table of production of spring wheat, raises the question as to whether it is not possible to stabilize production, either by the inaguration of more efficient methods of farming, more suitable rotation of crops for drought areas, or other soil conservation measures:

PRODUCTION OF SPRING WHEAT

	M	ANIFOBA	
	Acres	Yield Per acre	Bushels
1910	2,755,818	12.35	34,039,773
1911	3,081,542	20.22	62,309,000
1912	2,824,000	22.20	62,684,000
1913	2,785,000	19.01	52,943,000
1914	2,601,000	14.75	38,365,000
1915	2,797,719	24.76	69, 274, 000
1916	2,721,896	10.88	29,606,000
1917	2,445,000	16.75	40,953,800
1918	2,908,968	16.25	48, 142, 100
1919	2,880,301	14.25	40,975,300
	SABKA	TCHEWAN	
1910	4,226,992	15.84	66,964,653
1911	5,253,836	20.75	109,017,000
1912	5,579,000	19.16	103,895,000
1913	5,716,000	21.35	121,465,000
1914	5,344,000	13.74	73,427,000
1915	8,919,292	25.12	224,050,000
1916	9,016,851	16.33	147,235,000
1917	8,263,250	14.25	117,751,300
1918	9,249,260	10.00	92,493,000
1919	10,587,363	8.50	89,994,000
	Az	BERTA	
1910	674,665	9.98	6,736,680
1911	1,334,186	21.64	28,872,000
1912	1,378,000	21.54	29,675,000
1913	1,310,000	23.00	30,130 000
1914	1,150,000	21.00	24, 150, 000
1915	2,098,123	31.12	65, 289, 000
1916	2,586,798	24.95	64,539,000
1917	2,845,600	18.25	51,932,000
1918	3,848,494	6.00	23,091,000
1010	4 941 909	0.00	20,001,000