

Will Harness Moon When World Famous Fundy Tides Are Dammed For U.S. Hydro-Electric Power

Canada Takes No Part in Project

State of Maine to Develop 200,000 Horsepower From Bay of Fundy.

By JAMES MONTAGNES,
Central Press Canadian Writer

Washington. — Because President Roosevelt likes to summer at Campobello Island, New Brunswick, the tidal waters of the Bay of Fundy on the American side are to be harnessed to provide electric power for the State of Maine, and perhaps for New Brunswick. The vast works relief program in the United States has appropriated a preliminary \$10,000,000 to harness the tides for the first time in history, and at least \$37,000,000 is expected to be spent on this project which relies on the attraction of the ocean waters to the far-distant moon.

For many years the high tides of the Bay of Fundy, rising a maximum of 27 feet, a minimum of 16 feet, and on a yearly average 18.6 feet, have been studied by power engineers. Negotiations have been carried on consistently between Canada and the United States, for the tides cross the international water boundary running through Passamaquoddy Bay and the Bay of Fundy. The scheme has not met with too much enthusiasm on the Canadian side, the fisheries and canneries expecting harm to their industry with the building of dams and power houses. On the American side the sardine canners have backed the scheme, trusting to engineering assurances that the dams would not harm their industry. Governor Brann of Maine has been in favor. President Roosevelt knows the tides because of his holidays on Campobello Island, and has shown his interest

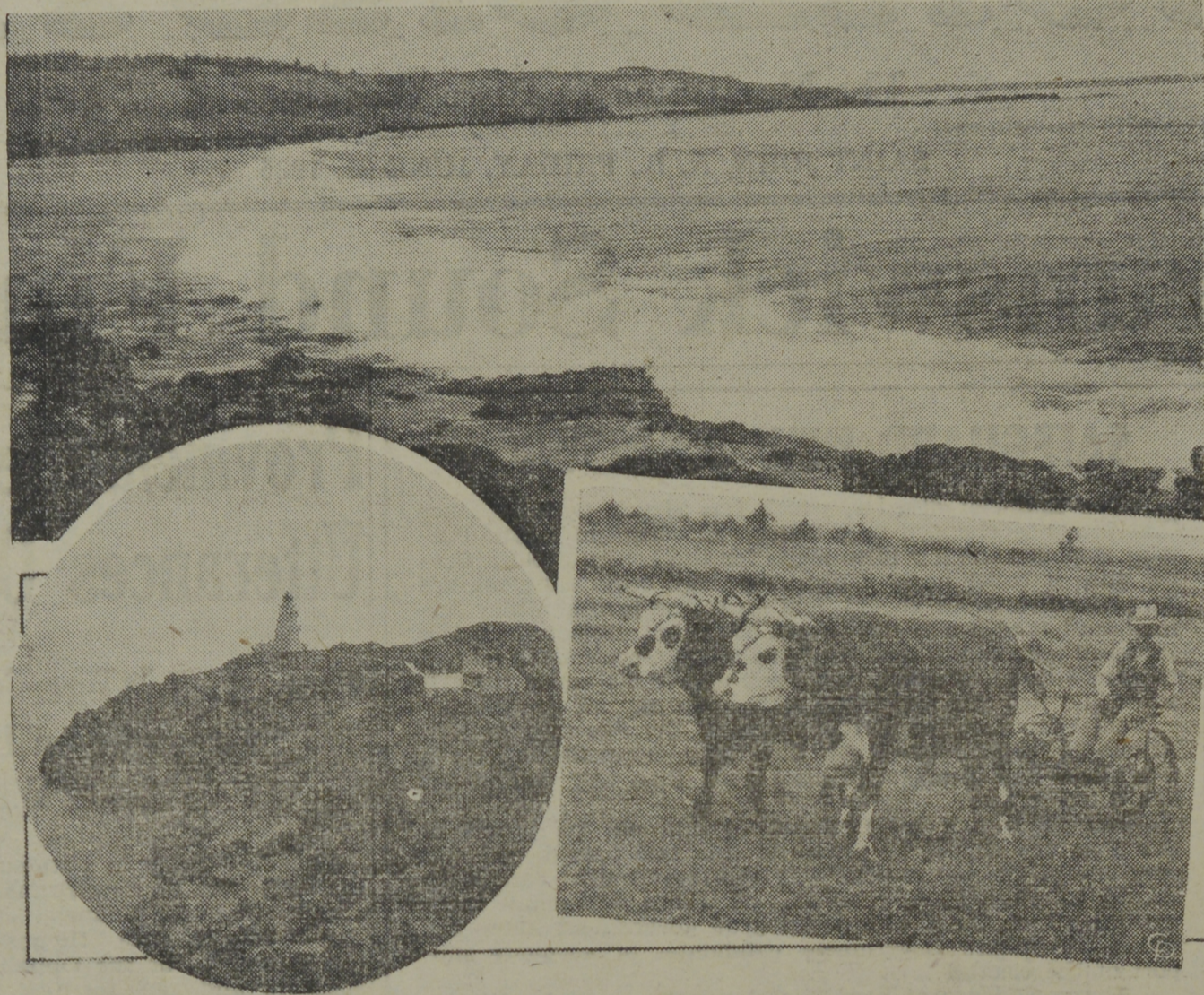
An All-U.S. Project

Because of non-participation by Canada, the power development is to be entirely in United States waters. The tides flow up Passamaquoddy Bay and Cobscook Bay, and out again into the Bay of Fundy, so to the ocean. Cobscook Bay is entirely in the United States, and all its entrances from Passamaquoddy Bay are to be dammed. As the waters from the latter bay flow into Cobscook Bay through the dams, they will drive turbines generating electricity, and the waters will flow out from a lower set of dams into the ocean.

Since the tides only run for two and a quarter hours, some of the electricity generated from the incoming tides is to be wired to a reservoir, already known as Haycock Reservoir, there to operate pumps to fill the reservoir. When the tides recede and the Cobscook power station becomes non-productive, the waters will be let out of Haycock Reservoir to drop 130 feet to the ocean, and this drop will be utilized to produce electricity in the usual manner in which all hydro power houses create electricity.

Could Develop 500,000 H.P.

The entire harnessing of the tidal waters of the Bay of Fundy is calculated to develop between 500,000 and 700,000 horsepower, and to cost between \$75,000,000 and \$100,000,000. But since only the American side is to be developed, not more than 200,000 horsepower of electric energy is expected. Under present conditions, this is far more than the State of Maine requires, so that New Brunswick may use some of it. Promoters and the enthusiasts, however predict that the harness-



Science, aided by President Roosevelt's work relief program in the United States, is planning to harness the moon for electrical power. The famous tides of the Bay of Fundy, New Brunswick and Maine, are to be utilized by the State of Maine to develop 200,000 horse power. Layout shows the famous tide rolling up. Right—New Brunswick oxen may soon be replaced when electricity comes. Left—lighthouse on Grand Manan Island in the Bay of Fundy near where the Cobscook Bay tidal water electric development has been started. The tides are caused by gravitational action of the moon and sun.

ing of Neptune and the moon to provide electricity will bring new industries to Maine to use up the entire production of power.

Tidal waters have so far not been developed for electric power. The highest tidal waters, except for death-dealing tidal waves which rise out of the ocean at times, are in the Bay of Fundy, caused, it is said, by the many indentations in the coastline of Maine and New Brunswick. The ocean tides pile up in these bays and inlets, accounting for the extremely high waves which flow into Cobscook and Passamaquoddy Bays. The gravitational action of the sun and moon on the earth as it rotates causes the tides. Now engineers are making surveys and borings, roads are being constructed and men are looking forward to work once more in the State of Maine, because of the vision that the action of the distant moon on the waters of the ocean can be harnessed to provide energy to drive electrical machines.

What Plants You Can Rightly Use For Garden Edging

Color Scheme, Type of the Garden Must Be Considered.

By DEAN HALLIDAY,
Central Press Garden Expert

Every year there is the same problem to be settled: What plants are to be used for edging? Much depends on whether or not you are planning for a certain color scheme or whether the garden is formal or informal.

It is far easier to plan for the informal garden, for the range of plant material which can be used

is large. The formal garden presents a more carefully planned edging, for it must be one which can be kept trimmed and neat in appearance, therefore the texture of the foliage must be considered more than the flower.

In the informal garden or the herbaceous border one can use groupings of perennials for the very earliest bloom, and then add annuals to carry the bloom, up into frost.

Most of the early blooming perennials are dwarf in size, so there is a large group of plants from which to choose including forget-me-nots, the earliest of the veronicas, a white variety, Primula Cashmereana, a lavender, blooming even before the early yellow. Groupings of grape hyacinths and scillas are interesting. Violas, dwarf bleeding heart, dwarf iris, blue phlox subulata

and violets, all give the earliest of bloom which can be followed by groups of allyssum goldentuft, rockcress, grass pinks, dwarf blue veronicas and the lovely ivory white dwarf columbine. There are several low growing dianthus and many sedums. The hardy verbenas are lovely, either venosa or veitchii. Campanulas garganica and anemone pulsatilla are very effective.

To this border edge can be added many low growing annuals such as lobelia, annual ageratum, pansies, petunias, candytuft, nasturtium, verbenas, California poppy, dwarf marigold, to carry the bloom right up to the time of frost.

Teacher—"And what lesson do we learn from the busy bee, children?"
Boy—"Not to get stung."



The above map shows where work has been started to dam the famous tides of the Bay of Fundy for electrical power.

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WAS HIS FACE RED!

Indian prisoners are adepts at smuggling forbidden articles into jails. An officer was perplexed by the quantity of tobacco which was getting into his jail. One morning in the jail garden a prisoner approached the Governor and said:

"Sahib! I can tell you how the tobacco is getting into the jail."

The Governor promised to remit his sentence by six months if he could give definite information.

"Well, Sahib! You are bringing it in yourself!"

The Governor used a pony for riding round the many enclosures and gardens of the jail. Some members of an outside gang working in the gardens and stables had hit on the idea of removing the stuffing from his saddle and replacing it with tobacco. While he attended to his office work the pony was led away to a quiet corner, the tobacco removed, and grass stuffing substituted.

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