Pioneers Learn Art of Making Maple Syrup, Sugar from Indians

manufacturers of maple syrup in Halton and district is gradually diminishing, the thick - running, golden brown liquid still holds a glimmer of the pioneer spirit.

It's not certain how long sugar and syrup have been made from the sap of the maple tree. However, white men learned the art from the Indians. With a few modern improvements, the gathering of Nature's sweet bonus goes on today much as it did before the earliest pioneers walked in wonder through this land .-

There is a legend which tells how an Indian woman was cooking meat for her brave's supper in the sap of the maple, and, being called away from her cooking, allowed the sap to boil away. Her husband returned and found, to his delight, that a sweet liquid of delicious flayor had been produced. Henceforth, the Indians used the method to provide an added delicacy to their diet, the government magazine Syl-

va records. The white man adopted the Indians' process and for many years that cane sugar became cheap and of domestic supply.

The area of maple sugar and syr-Appalachians into Kentucky and syrup.

followed the crude methods used hind. Syrup is commonly marketed by the Indians for making syrup, in gallon or half-gallon tin cans This consisted of cutting a diagonal and may be canned either hot or slash in the bark of the tree and | cold, fixing a wooden spout in a notch at the bottom of the slash so that ing-off para, separate from the evthe sap dripped into a vessel made aporator. The syrup is heated until from birch bark. The sap was then it boils at 238 degrees F. to 240 deboiled in a kettle over an open fire grees F. at sea level to obtain sugar

White Man Improves The white man has improved considerably on these crude methods, but the technique has not fundamentally altered in the last 100 years, except for the introduction of evaporators. These affected a great saving in fuel and man-hours When the weather becomes such that the temperature in the daytime is well above freezing, and goes down below 32 degrees F. at night, it is time to tap. The tapping time usually comes between late February and late March. The length of the season is dependent on the weather and may last from eight to ten days to a month or so.

As there is usually a fair depth of snow in the bush at tapping time, the first step in tapping is to break out roads, so that it will be easy to get around to tap the trees and collect the sap. The trees are tapped at about three to four feet above ground. The old brace-andbit used for drilling the tap-hole into the tree has been replaced to some extent by the more modern power drill, much as the power saw acre. Cull and over-mature trees is replacing the axe. The tap-hole produce quite well as long as they extends two to three inches into the tree or about the distance of tems. the sapwood.

There is some flow of sap in the heartwood, but it has been found that about 80 per cent. of the sap flow is in the sapwood and that the sap from the heartwood is of poor quality. A spile is driven into the tap-hole and a bucket hung

The sap must be collected fresh as bacteria, and other organisms soon get into it and their action may cause an unpleasant flavor. This is particularly true later in he season when the weather gets warmer. It is the chief cause of the so-called "buddy sap."

Early Piencers

In early pioneer days, most of the sap was collected in buckets suspended from each end of a yoke fitted over a man's shoulders. Teams and sleighs with sap tanks were used later. Now, tractors are replacing horses to hauf the sleighs. (It is of interest that cost of collection with a team was found to be slightly less than the cost with a tractor in a recent economic in-

vastigation in Ohio.) Boiling of the sap is carried out in the "sugar house", centre of sugar bush activity, in evaporators with corrugated bottoms over wood fires. The corrugation increases the surface heated and speeds up the

The standard syrup is a liquid which boils at 219 degrees F, at sea level. A reduction of - degree F. is allowed for every rise of 500 feet in

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maple sugar and syrup were the only sugar used by most settlers in THE RUN OF THE SAP is now over, but as a result of the few the northern part of the United short weeks of hard work in tapping, gathering, boiling and States and Canada. It was not un- marketing many Canadian homes have fresh maple syrup on their tables, a distinctively Canadian product. Here an Esquesing town- of a Quebec blacksmith who ran ers, dirty rags, old toys. If you replaced maple sugar as the source ship farmer collects sap to take to the boiling pans. This picture was taken in March, at the height of the run.

up production extends from the altitude. This liquid will weigh Atlantic coast to Wisconsin and about 13.2 lbs. per imperial gallon. Minnesota and from the south It will contain 65 per cent, solids slopes of the Laurentian Shield in by weight or about 85 lbs. of sugar Canada to southern Ohio and Pen- per imperial gallon. Hydrometers nsylvania. It dips south along the are used to check the density of the

The hot syrup is usually put In Canada, Quebec is the major through filters to remove the malproducer, with Ontario second. A ate of lime and any other material small quantity is produced in the which may have precipitated out-Maritime provinces. Production has during boiling, then placed in setdeclined in Ontario in the past few thing cans for 24 hours. The cans have a spigot, so the syrup can be The white man for many years drawn off, leaving the sediment be-

Maple sugar is made in a sugarwhich is 80 per cent. solid sugar. This is called tub sugar or soft sugar. The syrup must be stirred during sugaring-off to prevent burn-

New Equipment New equipment for the maple syrup industry which has appeared recently includes a vinylite collecting bag which fits over a special

spile, a power-driven tapping machine run by a small gasoline motor and plastic piping for piping sap to the storage tank and for fittings. Tests have shown that the amount of sap produced by a tree of given diameter is directly proportonal to the total crown area of the tree. The yield increases greatly with an increase in diameter. The average annual syrup yield per acre of sugar bush has been shown

to be 6.96 gallons. Usually the yield per_acre is much higher in forest stands than open stands. The stand composition has been found to have little effect on yield except as it affects tree form and the number of maples per have healthy crowns and root sys-

This has not been a good year for maple syrup in this locality.

In normal years one out of four manufacturing companies in Canada operates at a loss.



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A NIGHT TO REMEMBER

These were the things they re nembered, that night. John Jacob Astor said, "We as afer here."

"You cannot sink this boat." "We've struck an iceberg!" "I'll see you later." "Be brave."

unsinkable" Titanio struck an ice- Buckner, gave a splendid account berg and sank. Of 2,207 on board, of the convention. Mrs. B. Mowat only 705 survived.

are now famous. Benjamin Guggenheim and his er. valet, dressed in evening clothes. We've dressed in our best and are prepared to go down like gentlemen." he said. And many others, sensitive,

heartbreaking, heroic. Some other

legends — like the band playing

Nearer My God to Thee - were roven fanciful. The book also has many pictures -photographs of scribbled messagthe survivors in the boats, the

O Canada were written by the son furniture, loosely piled newspapaway from home to live in the want to look safe, feel safe, be safe

ents of the voyage.

Festival Winners Guests of I.O.D.E.

The May meeting of the Duke of Devonshire chapter I.O.D.E. was held at the home of Mrs. Joseph Jany, with the regent, Mrs. J. Whitham, presiding. Six participants in the recent North Halton Music Festival gave a delightful musical program preceding the business meeting. They were Heather and Janice Leyland, Gwen Bean, Helen and Bernie Benton and Jon Hurst, accompanied by Helen Landsborough.

The chapter's delegate to the Provincial chapter annual meeting in Of course, it was the night the Hamilton in April, Mrs. Robert told the members about the clos-The book includes anecdotes that ing banquet and how much everyone enjoyed the after-dirner speak-

> Refreshments were served by the hostesses for the evening, Mrs. Wilfred Coles, Mrs. Ken Blow and Mrs. Les Davies.

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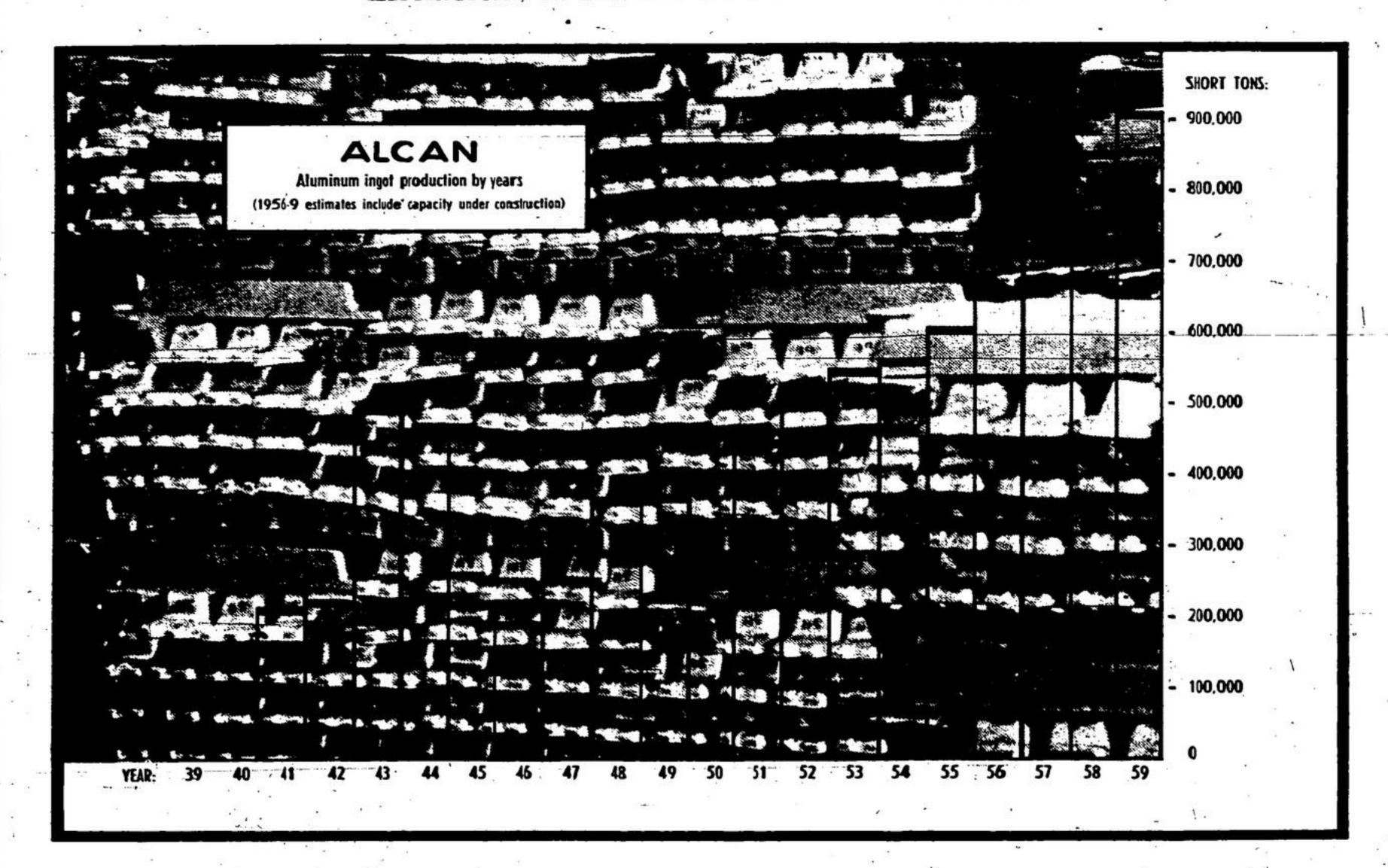
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the fact is that the demands go up at a rate faster than new production can be pushed to completion at Isle Maligne in Quebec and Kitimat in British Columbia.

Steady increase in productive capacity has been accompanied by a corresponding increase in employment and payroll. Today in Canada there are 20,500 Alcan employees.

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