

National Maple Syrup • DIGEST •

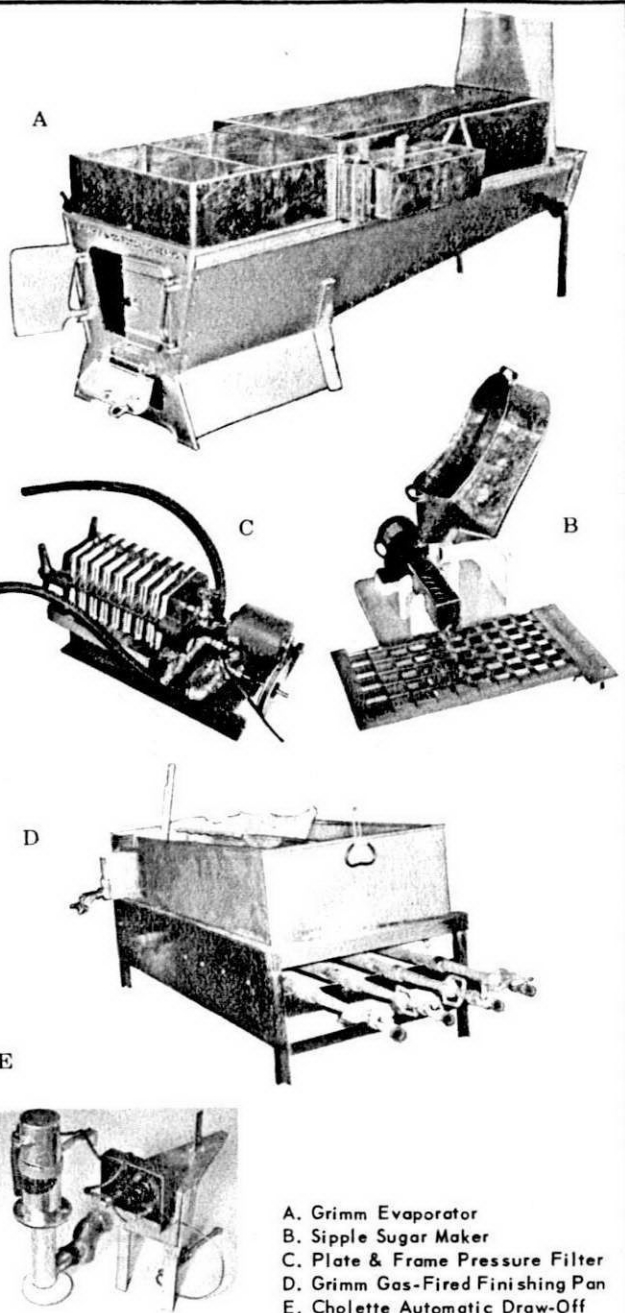


Vol. 6, No. 4

DECEMBER, 1967

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MAPLE SYRUP DIGEST**

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The following issues of the
Digest have been printed to date:

- Vol. 1, No. 1, 2, 3, 4
- Vol. 2, No. 1, 2, 3
- Vol. 3, No. 1, 2, 3, 4
- Vol. 4, No. 1, 2, 3, 4
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We still have a supply of most
of them but they are getting scarce,
and they are expensive to mail. If
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COVER PICTURE

Our cover picture this month
was taken last April at the Geauga
County Maple Festival in Chardon,
Ohio, and shows both beauty and
brass. Pictured, left to right, is Ture
Johnson, Burton, Ohio, newly elected
chairman of the National Maple Syrup
Council; Sheila Anderson, Kennedy,
N.Y., National Maple Queen of 1967;
Gordon Brookman, South Dayton,
N.Y., New York delegate to National
Council; and Adin Reynolds, Aniwa,
Wisconsin, past chairman of the
National Council.

We think the picture shows three
pretty good looking guys and a really
good looking girl. See *NATIONAL
MAPLE QUEEN* in this issue.

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Editorial

This editorial writing is getting to be somewhat of a chore. I just can't think of anything to write about. Maybe that's why ministers move so often - - they run out of ideas. After they move they can just pull an old sermon out of the file each week and no one knows it's a "repeat." I remember once when I was a kid one of the elder members accused our minister of buying his sermons in Sears Roebuck. Maybe so, but I haven't found any place yet to buy editorials.

I seriously considered skipping it this issue, but after having such a wonderful trip to Maine to attend the annual meeting of the National Maple Syrup Council, I decided I had to write something. This was one of the nicest trips my wife and I have ever taken, and I can't begin to express my thanks and appreciation to the Maine Maple Producers Association and especially to Ted Harding. Ted represents Maine on the National Council, was responsible for inviting the council to hold its meeting in his home state this year, and unless I'm 100% wrong, he pretty well engineered the whole job, single-handedly. And he certainly did a bang up job.

The meeting was held in Belfast, where we stayed in cottages on Penobscot bay, one of the larger of the many inlets that make the coast of Maine 2500 beautiful miles long - one fourth of the total Atlantic coast. We started a day early, stayed off the turnpikes, and loafed up along the coast. We found you could get accommodations in a quiet inlet where all kinds of boats docked (there was everything from small lobsterboats to three masted yachts) or you could stay at a cottage on a point projecting out into the ocean.

But Maine is still mostly unspoiled country. We noticed there was still plenty of room left, and we were traveling in the heavily populated area along the coast. We didn't go on upstate, but back in the mountains there's probably places

Ture Johnson New Chairman of National Council



Ture Johnson of Burton, Ohio, was elected Chairman of the National Maple Syrup Council at the annual meeting held October 4th and 5th in Belfast, Maine. Mr. Johnson is county forester of Geauga County, has

they don't even know they've got because nobody's ever been there before. Maine is actually a relatively sparsely populated state. This isn't because it's a new state; a large percentage of the homes were built in the 1700's, making it one of the oldest in the union. Maybe it's because it's hard to find a place flat enough to build a house. Anyway, it's still a long way from the solid miles of gas stations and hot dog stands that I've seen in some other resort areas. There were antique shops almost everywhere but this added to the colonial atmosphere and their presence almost compelled the visitors to join in the relaxed and unhurried way of life of the natives.

The highlight of our trip came the first afternoon. Through the courtesy of the Maine Maple Producers Association, we were given a free bus trip to Acadia National Park on Mt. Desert Island. This is really an island located just off the coast but connected to the mainland by a causeway. A forest ranger

been a leader of the maple industry in that area for many years and has represented Ohio on the National Council ever since the council was organized. He succeeds Adin Reynolds who has served the council for the past two years.

Other officers elected at the meeting are: Edward Curtis, Honesdale, Pennsylvania, Vice Chairman; and Floyd Moore, Ocqueoc, Michigan, Secretary-Treasurer. Mr. Curtis is president of the Pennsylvania Maple Producers Assoc. and delegate to the National Council. Mr. Moore represents the producers of Michigan who will host the National Maple Queen Contest of 1968 at the Vermontville Maple Festival.

accompanied each of the two buses, explaining the history of the park, calling our attention to points of interest and answering all kinds of questions.

The bus took us to the top of Mount Cadillac, which is only 1530 ft. high but since the bottom of it sets in the ocean, and one side goes almost straight up, it's still quite a heap of real estate. As far as I could see the park wasn't worth anything except to look at, but boy, it sure can stand a lot of lookin'. It's supposed to be the most beautiful park east of the Rockies, and you don't need to stretch your imagination much to believe it.

Since I'm running out of room and ideas at the same time, I better sign off. I hope to have the minutes of the meeting to print in our next issue to keep you posted on what's happening in the Council. Once again, I want to thank the Maine Maple Producers and say that they should be proud just to have the privilege of living in the state of Maine.

from the chairman

My dear folks associated with Maple Syrup.

We have just returned from the National Maple Syrup Council meeting in Maine. The hospitality of the folks was great, and the foliage on our favorite tree (maple) was in full bloom in many areas, a gorgeous sight to behold. I wish more producers would give of their time to attend these meetings, as this is not a "yes" group to anyone. Everyone is fighting for your welfare, better price, better cans, better marketing, better everything. If anyone of you feel you would like to be heard.

quoted or damned, please let us know, as we will get you tuned into the correct frequency.

There is much that has been printed relative to maple syrup from the Research Lab in Philadelphia; and now at our meeting in Maine we find out the Forest Service Research station in Burlington, Vt. has issued 9 publications, have 15 more publications complete and in the hands of printers, and they are working on 14 more publications to be in the printer's hands prior to the spring of 1968. If all of you producers reading this Digest do not take advantage

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of writing to these Research centers for any of these publications, then all I can say is, "too bad for you." After all, this information is for you, it has cost money to get this reliable information for you, this is no guess stuff, this is authentic, proven, right in our own maple groves. I sure wish I could still be here 100 years from now when we are tapping trees with average sap sweetness of 6% and better.

Maple Institutes and meetings will be held in various sections of our maple belt, and we plead with all of you producers to come to these meetings and listen. If you have any thoughts on the subject matter being presented you too can be heard by voicing your opinions. I am sure you will pick up something worthwhile for your attendance time. If nothing more you will be with a bunch of "sweet" people.

Ture Z. Johnson

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Vermont Maplerama

by Doug Webb and Ruth Wright

Franklin County, a natural spot for the second Maple-rama August 11th and 12th, were two days which those who attended will long remember.

As the cool August day of the 11th unfolded, people started arriving to register for the program. This took place at the River Bend Farm, the home of Mr. and Mrs. Art Toof, Jr. in Fairfax, who graciously offered their farm as a central point for the event.

Registration and tickets for the events were handled by Mrs. Ruth Wright of Enosburg Falls, who did an excellent job as chairman of the tickets and other information which people wanted to know. Also on hand for the early arrivals was Eric Nye, of Georgia, who arranged to have coffee for everyone. This seemed to be much appreciated on this cool morning.

After everyone had registered and had their lunch, which was served at River Bend Farm by a caterer, they boarded buses which were waiting to take everyone through some of the real good maple country of Franklin County. Each bus had a guide with a loud speaker, calling attention to the most interesting points



The Leader Evaporator Co. entertains the Vermont Maplerama at their plant in St. Albans, Vt.

winding along the country roads.

In about a half hour we arrived at our first planned stop, the Leader Evaporator Company in St. Albans, Vermont. After a conducted tour, through the plant of the World's largest manufacturer of maple equipment, we again boarded our buses for another twenty minute ride which took us to the sugar house of Mr. and Mrs. Alden Ballard in Georgia, Vermont.

Here we saw the only natural gas maple syrup operation in Vermont. Mr. Ballard was very cooperative and actually had his evaporator boiling, (water of course). Everyone

enjoyed this stop very much.

All aboard again, back to River Bend Farm, and on to lodging facilities which were handled by the Madonna Area Association, and not far from River Bend Farm and the evening program.

After a short rest, the evening program, which was held at the new Memorial Gym in Jeffersonville, got under way at 7:00 p.m.

Starting with a beef barbecue (everyone seemed to enjoy this very much), twenty exhibits for Maple-rama, handled by Ray Foulds, Extension Forester, University of Vermont, were on display around the hall where the barbecue was served.

Chairman for the evening program was Sam Hudson, Jr., our Franklin County Forester. It consisted of a discussion of Taxation of Maple Orchards and Woodland. The panel consisted of Senior Forester, Robert A. Farrington, from the Vermont Department of Forests and Parks; John E. Long, Deputy Commissioner, Vermont Tax Department; and Elbert Moulton, Commissioner of the Vermont Development Department. After a lively question and answer period the program ended at 10:00 p.m.

After a good nights rest, the second day started with a pancake breakfast at Madonna Mt. Ski area.



River Bend Farm Sugarhouse owned by Mr. & Mrs. Art Toof, Fairfax, Vt.

After enjoying all the pancakes and good Franklin County Fancy Maple Syrup they could eat, those who wished, took a ride on the chair lift to see the most beautiful view in Vt.

All aboard, and on our way through the most thickly populated maple country in the world. It was estimated by the Maple-rama committee that we passed by sugar orchards on the tour where 250,000 buckets were hung.

Our first stop was at Mr. and Mrs. Guy Green in Enosburg Falls. Here we saw a steam operated evaporator which Mr. Green had ingeniously invented to his own specifications. A most interesting stop.



Mr. & Mrs. Robert Howrigan's "Misty Maples Farm" sugarhouse.



The sugarhouse at Proctor Research Farm, Underhill, Vt.

All aboard again through more maple country, and a stop at Misty-Maples Farm, (isn't this a fascinating name?) owned by Mr. and Mrs. Robert Howrigan. Here we saw a brand new sugar house which housed two large evaporators, one fired by oil, the other by wood. Rob and his family are great sugar makers, and were wonderful hosts for our Maple-rama guests.

Now on to our last stop, by way of Pleasant Valley, to the University of Vermont Proctor Research Farm in Underhill, the home of Maple research. We arrived a little after noon, and a caterer had lunch waiting our arrival.

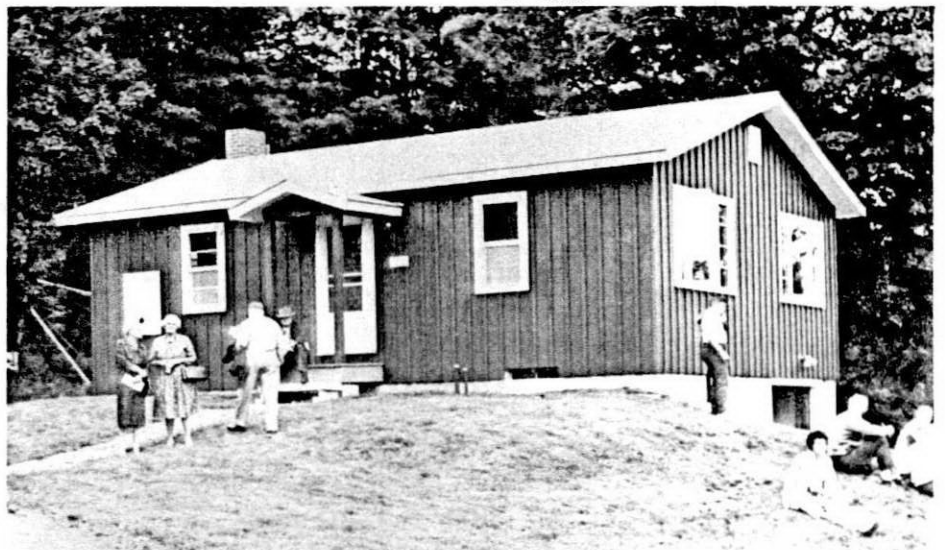
Dr. James Marvin, Director of the farm and Mr. Long and his staff

then took us on a tour explaining the many different types of research which they are carrying on at the Research Center. Dr. Marvin and staff were wonderful hosts and made us feel right at home. Everyone agreed this was really one of the highlights of this Maple-rama.

It was a great pleasure for the Franklin County Sugar Makers Association to be host for the second Vermont Maple-rama.

As one of our guests said, as we pulled back in at River Bend Farm and our tour ended, "I feel sad to think it's over, we have had such a wonderful time".

Many thanks to all who worked so hard to make this the success it was.



The new building which houses the scientific equipment at the Proctor Research Farm.

National Maple Queen

by Gordon Brookman

Sheila Anderson, of Kennedy, N.Y., was chosen New York State Maple Queen at the State Contest held at the Franklinville Maple Festival, Saturday, April 1st, 1967.

The following Saturday, April 8th, Sheila won the National Maple Queen Contest at the Geauga County Maple Festival in Chardon, Ohio, in competition with other girls from Maine to Wisconsin. The Geauga County Festival Committee should be complimented on the fair and orderly way they treated the candidates and chaperones.

Sheila is now in her second year, studying to be a teacher, at Fredonia State University at Fredonia, N.Y. She has poise, personality, beauty and common sense. She has done her best to promote maple whenever and wherever possible and will continue her duties until her



On the New York Maple Tour, Sheila Anderson, National Maple Queen, passes out "Maple Kisses" made by Clayton and Lillian Virkler of Lowville, N.Y., to Mrs. Fred E. Winch, Jr., and Mrs. Robert R. Morrow.

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successor is chosen next April.

Sheila is an ideal example of many teenagers today. She helps her father on his farm with chores, her mother with the house work, and her brothers and sisters with their problems. She has been active in 4H work, is a good cook, teaches Sunday School, likes sports and has a hobby of photography. She was Miss Kennedy in their Firemans' Queen Contest, and Chautauqua County Dairy Princess in 1966. Besides keeping up with her school work, she is active in various school activities and works summers in Sear's store in Jamestown to help pay her way through college.

We are proud to have a girl of her caliber represent us as National Maple Queen and hope one of equal

ability can be chosen next spring.

The New York State Maple Queen contest will be held at the Franklinville Maple Festival, Franklinville, N.Y.

The Ohio Maple Queen Contest will be held at the Geauga County Maple Festival in Chardon, Ohio, April 19 & 20, 1968.

The National Maple Queen contest will be held at the Vermontville Maple Festival, Vermontville, Michigan, April 26 & 27, 1968.

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Planting Sugar Maples

By F.E. Winch, Jr.
Extension Forester
Cornell University

SUGAR MAPLE FOR PLANTING FOR ROADSIDE BEAUTY OR MAPLE SIRUP PRODUCTION

In the past, sugar maple has been planted as two or three year seedlings. Results have been indifferent since rabbits, deer, and mice prefer maple as winter food over all other species. Sites have been indifferent as well and weed control has not been easily attained.

1) Selecting the Site:

A well-drained deep soil where maximum root development may be attained is essential. Sugar maple cannot stand poor drainage nor wet feet. It likes soil well supplied with moisture but not wet. Avoid sites where road water, especially that contaminated with salt, runs over the roots.

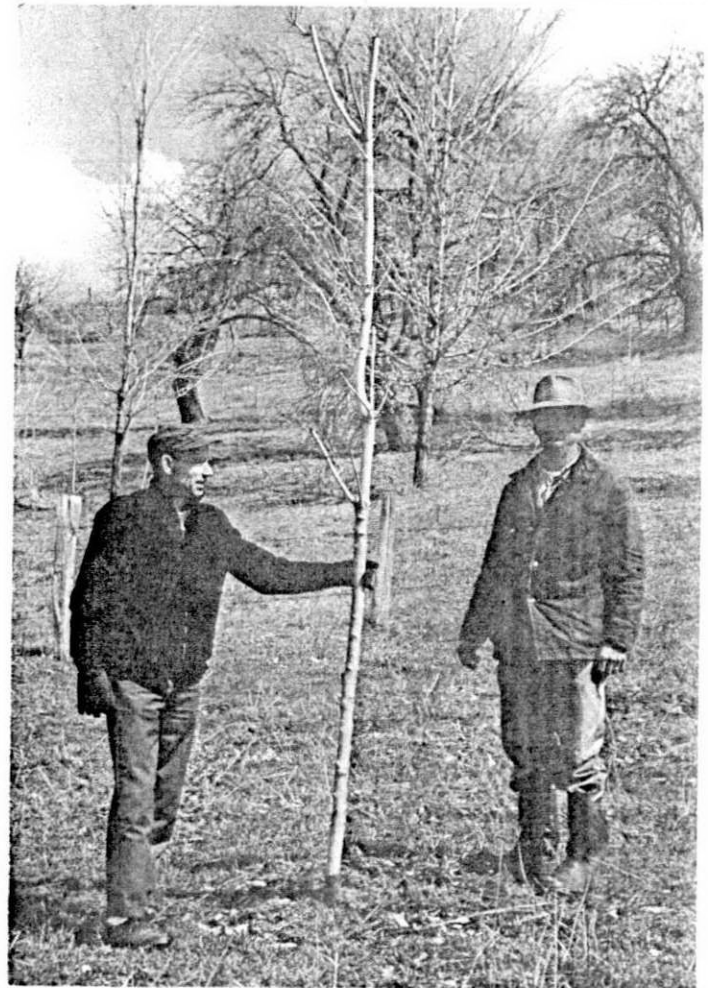
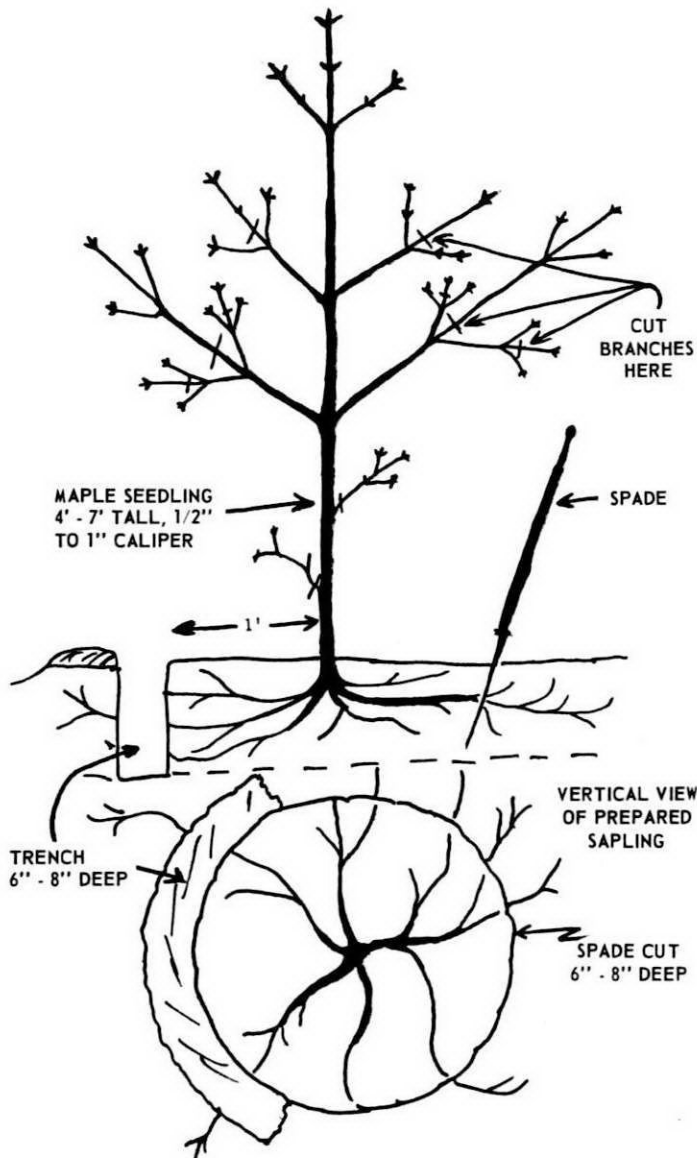
2) Selection of the Tree for Planting:

Open grown trees, or at least those in full sunlight should be selected. Those in heavy shade will

sun-scald when moved into full sun. Trees from 4 to 7 feet in height will be easily lifted and moved. These trees will range from 1/2 to 1 inch in diameter near ground level. Straight, vigorous trees should be selected.

3) Spacing:

Spacing for trees may be variable depending on the use to be made of the trees, the amount and shape of the land and other variable factors. Generally where one row of trees is to be planted they should be spaced not closer than 30 feet apart. Where several rows are to be used many spacings may be acceptable. A general rule is that the ultimate sugar bush should contain 40 trees per acre over 25 inches in diameter,



County Agent Charles Hebblethwaite and Merritt Vossler of Wellsville, New York, with one of the larger trees planted in 1966, the driest year in Allegany County's recent history. Ninety-eight percent of the 100 trees on this acre were growing vigorously in 1967.

these would be 33 feet apart. More likely the spacing will be approximately 15 to 20 feet in rows and rows 20 to 35 feet apart, about 100 trees per acre.

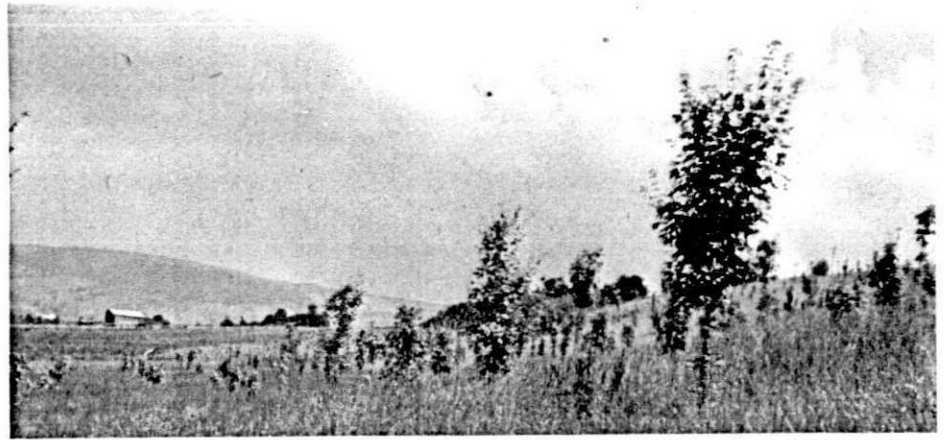
4) Preparation of the Tree for Moving:

From 9 to 12 months before moving, the tree should be prepared - - - roots, especially a mass of "hair" or feeder roots, must be developed ahead of moving, in order to hold soil and take up the needed nutrients. To do this, it is best to start by either digging a trench a spade length in depth (6"-8") about 1 foot from the stem cutting the roots all the way around the tree. Refill the trench with humus, straw, sawdust or shavings. A second way would be to drive the spade into the ground in a circle 1 foot from the stem around the tree. Place the spade upright and jump on it to cut all roots. (See attached diagram)

5) Moving the Tree:

Trees prepared as above will be ready to move as soon as frost goes out the following spring. Holes may be prepared the previous fall with tractor scoop or if available small tractor back-hoe. Pile dirt on downhill side of holes on sloping land.

Dig the tree with a tractor-



An earlier group of trees planted by Vossler show exceptionally rapid growth after fertilization. Of nearly 12 acres of trees planted at the rate of 100 per acre over the last few years, over 95% grew - - the rest were replanted to make a 100% stand.

mounted scoop or light back-hoe. In recently thawed fresh soil the scoop may be forced under the tree to a depth of 6-10 inches and tree and whole prepared root system lifted and loaded on stone boat or low-bed wagon. Excess soil may be removed but most of the soil in the 2-foot diameter ball should be left if possible.

At the site, the prepared holes should be checked to see that the prepared tree can be planted slightly deeper than it was in the growing spot. Set in place with the stem vertical and bring mineral soil around the roots and firm in place. Excess soil should be used to form

a disk-shaped depression around the tree.

If this is done where sap gathering is the practice, a gathering tank of water should be hauled to the planting site and each tree should be soaked in with 20-30 gallons of water. This will firm the tree in the soil. No further watering should be needed in a normal year.

6) Pruning to Balance Top and Roots:

Each tree should be pruned to attain as nearly as possible a balance between top and root. Since roots will not function as they should the first year, this means a drastic pruning back of all the side limbs or branches. Remove all ill-formed and scraggly lower branches. Reduce the length of laterals about two-thirds for lower branches and one-third for upper branches, but leave at least one good set of buds on all branchlets that are left (see diagram) but do not cut top.

7) Fertilizing:

If some of the new permeable packaged fertilizers are available, two to three 2-ounce packages should be placed in the hole before the tree is set. These will be effective for a period of two to three years or longer. Where general dry bulk fertilizers are used, no fertilizing need be done the first year of planting. The following spring one of two methods of fertilizing should be used: (1) Punch holes into the

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Gerald Lyndaker, Croghan, New York, inserting 2 oz. pre-packaged fertilizer into the soil near the tree he planted in 1966. Such fertilizer, available to the roots when soil has high moisture content, are a new innovation.

perimeter of the planting hole 4-5 inches deep and apply 1 pint total, of fertilizer for every 1 inch of diameter. Distribute into the holes. (2) Spread an equal amount of fertilizer on the soil at the perimeter of the planting hole.

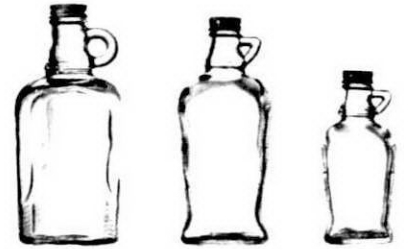
8) Weed Control:

In order to keep moisture available for tree and to keep fertilizer from being wasted, some form of weed control should be practiced. Consult your county agent for recommendations for the use of simazine, amitrole or amizine.

9) Protection Against Animals:

In no case should the small trees be unprotected from damage by rabbits or hares. This may easily be done by reducing the rabbit or hare but a single rabbit will cause considerable damage in a young stand, especially one which has been fertilized. Wrapping the stem with plastic or aluminum foil or with wire collars to a height above which

the rabbit can reach is very helpful. Mice, too, will cause considerable damage but this may be prevented by the same type of application.



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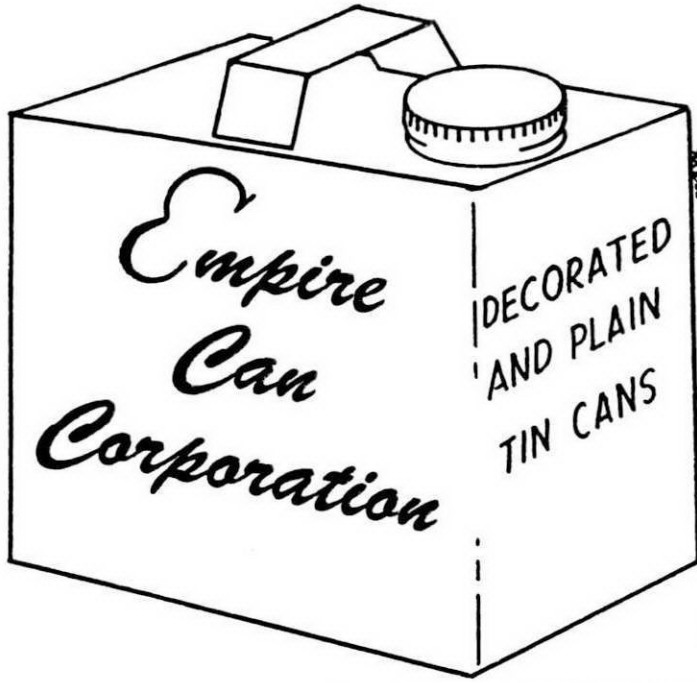
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New York Maple Tour

by Neal Handy
Lewis Co. Extension Agent

More than 300 maple producers and officials connected with the maple industry were impressed with the hospitality extended by Lewis County during the New York State 1967 Maple Tour held August 17 and 18.

The throng participating in the tour came from the New England states, Michigan, Pennsylvania, Ontario and Quebec. Local hostelries and campsites were filled by the visitors.



Joe and Irving Yancey still rely on horses for tapping and gathering sap. Two teams carried tour visitors through the 8000 bucket bush on underslung sap rigs.

The tour started Thursday at the J.P. Lewis sugar bush, near High Falls. Duane Wicks, President of the Lewis County Maple Producers' Association, welcomed the group to Lewis County and said that, "the members of the county association would do everything that could possibly be done to make everyone's visit to Lewis County a rewarding

experience." Registration was held, and Robert Bramhall, woodlands manager of the Lewis Company, explained the production operations. The sugar house and sugar bush were toured, thinning practices were observed, and they heard about fertilization experiments and how fertilization influences sap flow and sugar content of sap. Figuring the syrup at \$5.00 per gallon there was a return of \$315.00 per thousand taps minus the cost of the fertilization \$113.00 leaving a profit of \$202.00 per thousand taps over the unfertilized trees.

The entire syrup produced here is put up in plastic pint containers and disposed of as gifts to friends and customers of the company.

The touring group, which included Extension agents and maple industry leaders from throughout the state, went next to the farm of Ellwood and Marie Stoddard at Lowville.

A tour of the roadside sugar house and market was taken, and general operation of the facilities was explained. Mr. & Mrs. Clayton Virkler, of Lowville R.D., who operate a large dairy farm and have developed a special retail and wholesale market for maple syrup and candies, were co-hosts. They fur-



Ellwood Stoddard's sugarhouse at Lowville, N.Y. Inside, the group watched closed circuit TV showing Clayton and Lillian Virkler's automatic taffy machines making "Maple Kisses."

nished samples of maple kisses to the visitors. Lewis County cheese and milk were also served at the Stoddard farm through the courtesy of the Lewis County Chamber of Commerce.

A closed circuit T.V. show originating in the Virklers' candy kitchen showed Mr. and Mrs. Virkler making maple kisses. Equipment used included a power taffy pulling device and a cutting and wrapping machine that converted 20 pounds of taffy into wrapped maple kisses in a few minutes.

Accompanying the group for the day and distributing kisses in decorative baskets was Miss Sheila Anderson, Chatauga County, National Maple Queen, and Miss Rita Yousey, Croghan, Lewis County Maple Queen. Mr. C.F. (Neil) Handy, Lewis County Extension Agent, who served as general chairman of the tour, was toastmaster at the evening's program at Snow Ridge, Turin. Chair lift rides were enjoyed by the group, followed by a chicken barbecue.

Greetings were extended by Cyril Seymour, mayor of Turin, and Donald Rogers, president of the Lewis County Chamber of Commerce. The two queens were introduced as were Lloyd Sipple, editor of the National Maple Digest, Max Neal, New York Maple Producers Association President, and Leland Beebe, of the maple marketing division of the New York Farm Bureau, Inc. Fred Winch, extension forester at Cornell University, addressed the group on "My Impressions of Euro-



Gerald Lyndaker's modern sugarhouse near Belfort, N.Y. Gerald is installing an entirely new outfit consisting of two oil fired flue pans and a steam heated finishing pan powered by a 20 H.P. boiler.

pean Forestry."

One of the highlights of the evening was a special presentation to Dr. C.O. Willets, of Philadelphia, director of maple research for the U.S. Department of Agriculture. Dr. Willets, a pioneer and famous name in the modernization of the maple industry, and now planning retirement, was presented with a carved wooden likeness of himself, created by a professional carver in Sweden. The presentation was made by Mr. Sipple.

Another presentation was made by Mr. Neal to H.W. Cook, a maple equipment dealer in DeRuyter, who was given a plaque for outstanding service to the maple industry in New York.

Friday morning the group went to the Joseph and Irving Yancey sugar house at Belfort, which the Yancey family has operated since 1841. Horses are used to gather wood and sap and this season 800 gallons of syrup were produced. Good woodland management practices were also observed.

Michael Virkler, of Castorland, showed the touring group some samples of blister maple from which he had made a table. The tree had been in the Yancey sugarbush. Wagon rides were enjoyed by the group.

The tourists then proceeded to the sugar house and candy kitchen at the Gerald and Catherine Lyndaker farm in Croghan. Here they viewed plastic tubing suspended by wires, underground tanks for sap, two new oil fired evaporators in the process of installation, and a steam powered syrup finishing pan about to be installed.

Maple plantations were observed and plans were reviewed for establishing an Agricultural Conservation cost sharing practice for establishing stands of sugar maple trees. Lemonade, coffee, Lewis County cheese and Croghan bologna, were provided through the courtesy of the Lewis County Chamber of Commerce.

The Verne and Duane Wicks

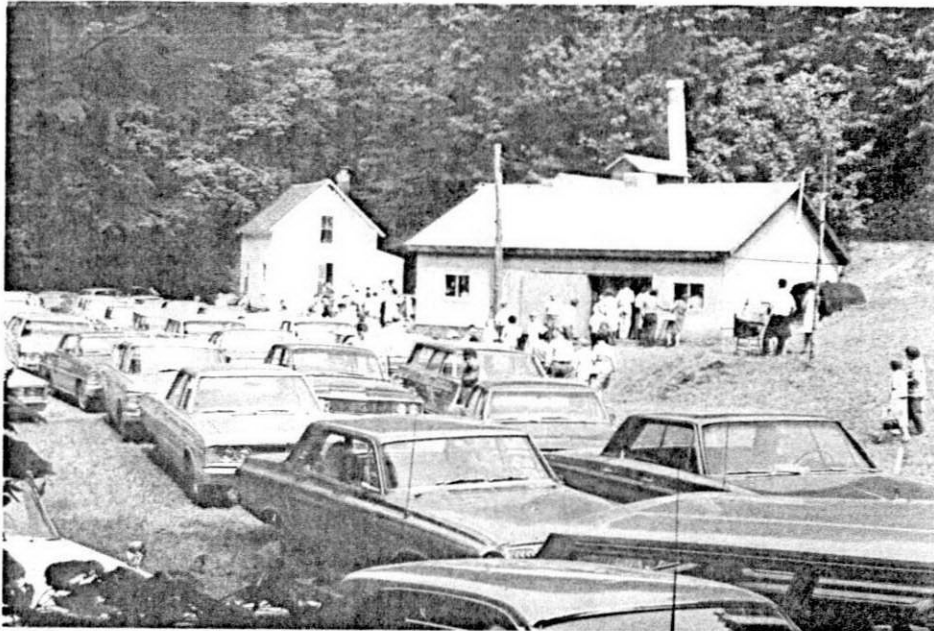
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Although located a mile from the highway, good roads and plenty of parking space allowed all cars of the tour to be driven to this sugarhouse operated by Verne and Duane Wicks, Harrisville, N.Y.

farm in Harrisville was the final morning stop on the tour. Here the guests observed a new central evaporator plant in the county's largest

syrup operation. The Wicks, father and son, operate adjoining sugarbushes, and have 10,000 taps and made 1,700 gallons of syrup this

year.

A buffet luncheon was held at Juniper Hills Ski Lodge, Harrisville, under the direction of the Wicks, who are stockholders at Juniper Hills.

A program summarization of the tour and a report on new research and new developments in the research of maple products was given by Dr. Willets.

More than one hundred and sixty automobiles were moved around the county with great finesse. Local maple association transportation committees were assisted by the Lewis County Sheriff's department and four Cooperative Extension agents with auto radios from Jefferson County. In fact these folks did their job so well that a traveling salesman, inadvertently found himself being parked in a field adjacent to Stoddard's sugarhouse. He expressed his feelings to a member of the transportation committee and we are unable to print his nasty words.

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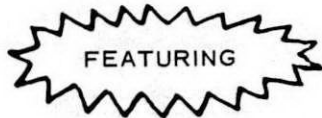
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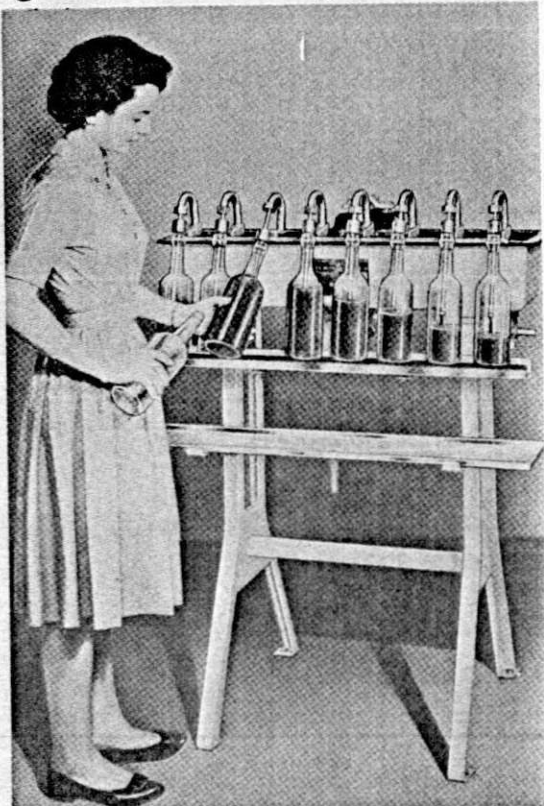
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How to Make More Syrup

Paul LaValley, Fibre Products Research Center, The J. P. Lewis Company, Beaver Falls, New York

Quotations from the Wall Street Journal - June 23, 1967

"A sticky situation - there isn't enough Maple Syrup to go around this year - now even blends are being diluted even more, and syreptitiously at that - General Foods cut from 15% to 10.5% - most producers production down 50% by bad sugar weather."

This was our cry too, "Bad Sugar Season," until we looked at some of our statistics.

To give you a little background, when we first made our plans for forest fertilization with the Ortho Division of Chevron Chemical Company we did not make plans for fertilizing the maples. However, the initial shipment was large and after fertilizing the pines and the nurseries we had enough left over to apply 250 lbs./acre to the acreage you now see as marked fertilized. (Note the darker more dense crowns). Test borings showed increased growth after the first year; the second year the sugar season showed an increase of sugar in the sap for the fertilized area. We have applied 1000 lbs. of fertilizer in four years and hopefully this will be good for 10 or more years. The increased growth has been uniform over the 5 year period and the sugar content of the sap has increased each year.

Now consider what we have gained from this work. Even though this year (1967 season) was "poor" for everyone including ourselves, the following data has been obtained.

1. Core samples show an average increased growth of 24.8% over the unfertilized stand which means the young tree can be tapped 15 to 25 years sooner.

2. We have applied approximately 3-1/4 lbs. of fertilizer costing slightly over 11-1/3 cents per tree.

3. We had an average of 1-1/3 taps per tree with an average sugar content 10-1/2% higher than the unfertilized trees.

4. We made 22.2% more syrup per tap from fertilized trees or 16% more syrup per tree.

5. Thus to conclude this analysis, figuring the syrup at \$5.00 per gallon, we made \$315.00 per thousand taps minus the cost of the fertilization \$113.00 leaving a profit of \$202.00 per M taps over the unfertilized trees.

What more proof can you have for the effects of fertilizing your sugar bush?

To help you even further, on this soil type area* we would recommend a 16-16-16, 20-10-10 or 10-20-20 fertilizer. However, outside these soil types we strongly recommend that a soil analysis be made before making a planned application. We do not recommend pulverized or dusty types of fertilizer. We do recommend peletized fertilizers as produced by Ortho.

*Gloucester, Essex, Rockland, Herman B. Becket Association

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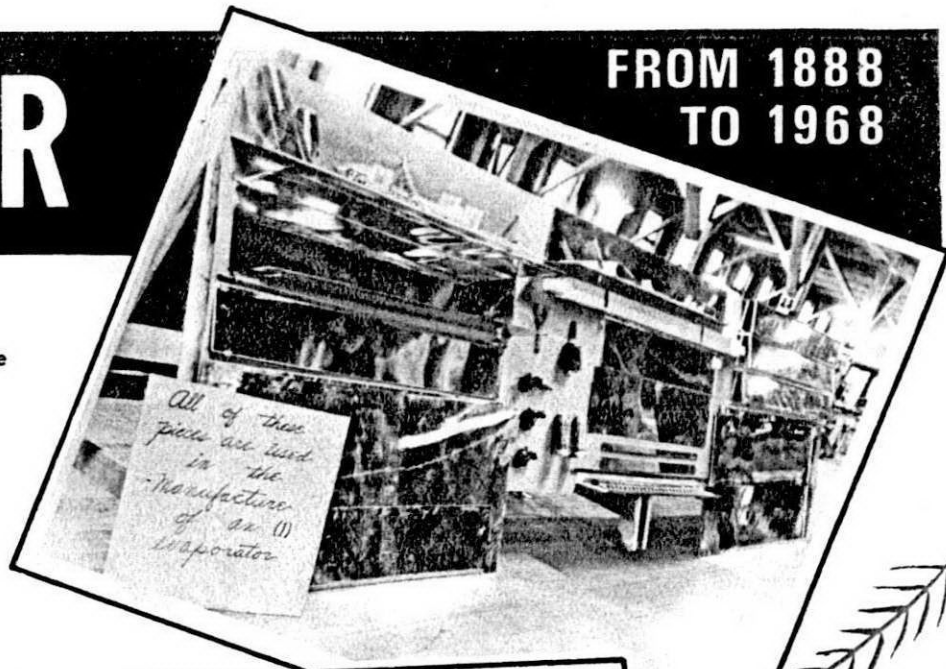
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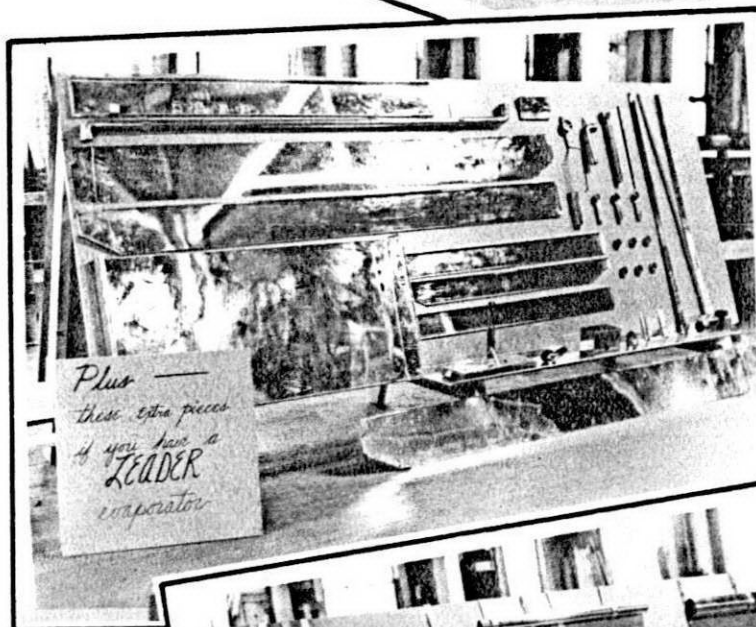
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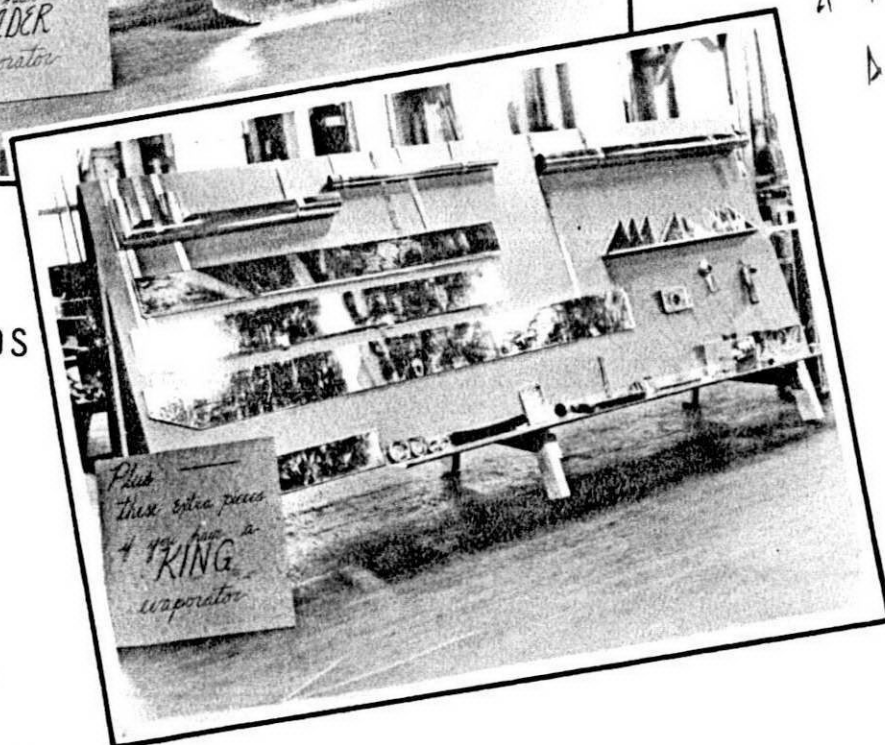


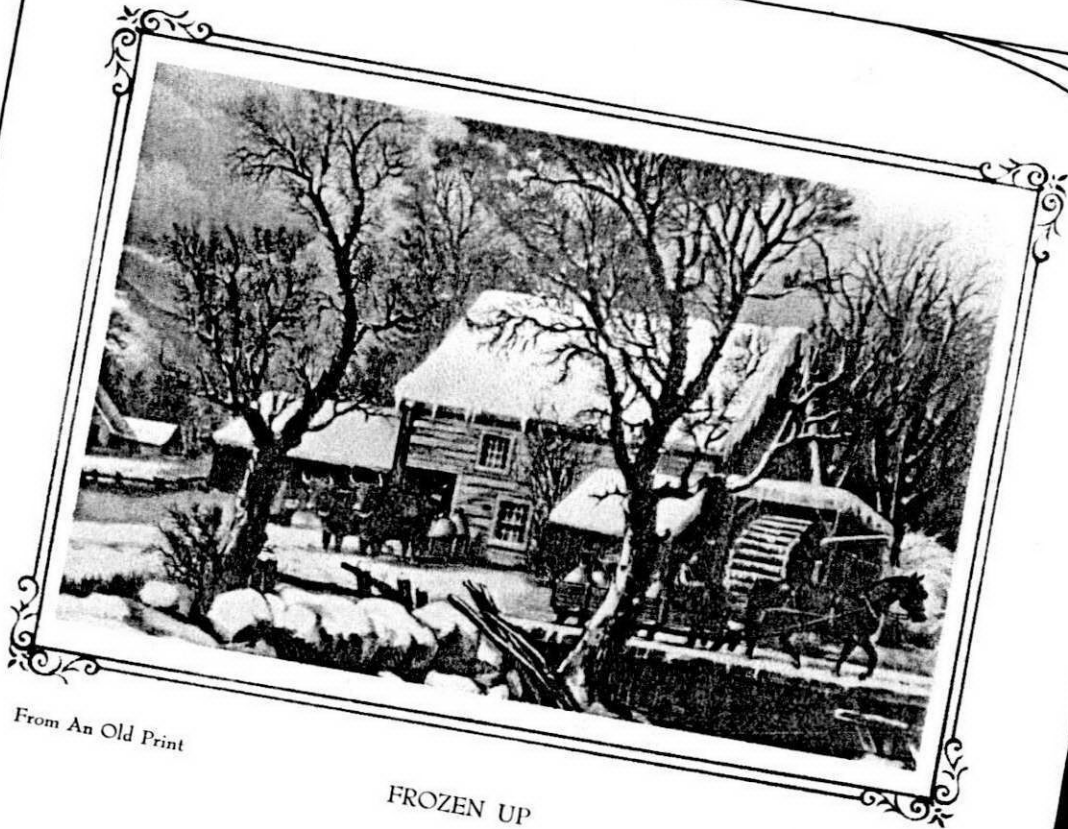
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